M series Model List

C.1 WALL-MOUNTED C-3

Indoor unit	Outdoor unit
MSZ-FH25VE2	MUZ-FH25VE
MSZ-FH35VE2	MUZ-FH25VEHZ
MSZ-FH50VE2	MUZ-FH35VE
MSZ-EF18VE3W	MUZ-FH35VEHZ
MSZ-EF18VE3B	MUZ-FH50VE
MSZ-EF18VE3S	MUZ-FH50VEHZ
MSZ-EF22VE3W	MUZ-EF25VE
MSZ-EF22VE3B	MUZ-EF25VEH
MSZ-EF22VE3S	MUZ-EF35VE
MSZ-EF25VE3W	MUZ-EF35VEH
MSZ-EF25VE3B	MUZ-EF42VE
MSZ-EF25VE3S	MUZ-EF50VE
MSZ-EF35VE3W	MUZ-SF25VE
MSZ-EF35VE3B	MUZ-SF25VEH
MSZ-EF35VE3S	MUZ-SF35VE
MSZ-EF42VE3W	MUZ-SF35VEH
MSZ-EF42VE3B	MUZ-SF42VE
MSZ-EF42VE3S	MUZ-SF42VEH
MSZ-EF50VE3W	MUZ-SF50VE
MSZ-EF50VE3B	MUZ-SF50VEH
MSZ-EF50VE3S	MUZ-GF60VE
MSZ-SF15VA	MUZ-GF71VE
MSZ-SF20VA	MUZ-DM25VA
MSZ-SF25VE3	MUZ-DM35VA
MSZ-SF35VE3	MUZ-HJ25VA
MSZ-SF42VE3	MUZ-HJ35VA
MSZ-SF50VE3	MUZ-HJ50VA
MSZ-GF60VE2	MUZ-HJ60VA
MSZ-GF71VE2	MUZ-HJ71VA
MSZ-DM25VA	
MSZ-DM35VA	
MSZ-HJ25VA	
MSZ-HJ35VA	
MSZ-HJ50VA	
MSZ-HJ60VA	
MSZ-HJ71VA	

C.2 FLOOR-STANDING C-201

Indoor unit
MFZ-KJ25VE2
MFZ-KJ35VE2
MFZ-KJ50VE2

Outdoor unit
MUFZ-KJ25VE
MUFZ-KJ25VEHZ
MUFZ-KJ35VE
MUFZ-KJ35VEHZ
MUFZ-KJ50VE
MUFZ-KJ50VEHZ

C.3 CEILING CASSETTE.....C-241

Indoor unit
MLZ-KA25VA
MLZ-KA35VA
MLZ-KA50VA

C.4 MULTI SYSTEM.....C-255

Outdoor unit
MXZ-2D33VA
MXZ-2D42VA2
MXZ-2D53VA2
MXZ-2D53VAH2
MXZ-3E54VA
MXZ-3E68VA
MXZ-4E72VA
MXZ-4E83VA
MXZ-5E102VA
MXZ-6D122VA
MXZ-2DM40VA
MXZ-3DM50VA
MXZ-2E53VAHZ
MXZ-4E83VAHZ

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M series Models

COMBINATION OF SINGLE SPLIT TYPE

Type			Model Name	
			Indoor unit	Outdoor unit
M series	Inverter	Heat pump	MSZ-FH25VE2	MUZ-FH25VE
				MUZ-FH25VEHZ
			MSZ-FH35VE2	MUZ-FH35VE
				MUZ-FH35VEHZ
			MSZ-FH50VE2	MUZ-FH50VE
				MUZ-FH50VEHZ
			MSZ-EF18VE3W	for MXZ connection only
			MSZ-EF18VE3B	
			MSZ-EF18VE3S	
			MSZ-EF22VE3W	
			MSZ-EF22VE3B	
			MSZ-EF22VE3S	
			MSZ-EF25VE3W	MUZ-EF25VE
				MUZ-EF25VEH
			MSZ-EF25VE3B	MUZ-EF25VE
				MUZ-EF25VEH
			MSZ-EF25VE3S	MUZ-EF25VE
				MUZ-EF25VEH
			MSZ-EF35VE3W	MUZ-EF35VE
				MUZ-EF35VEH
			MSZ-EF35VE3B	MUZ-EF35VE
				MUZ-EF35VEH
			MSZ-EF35VE3S	MUZ-EF35VE
				MUZ-EF35VEH
			MSZ-EF42VE3W	MUZ-EF42VE
			MSZ-EF42VE3B	MUZ-EF42VE
			MSZ-EF42VE3S	MUZ-EF42VE
			MSZ-EF50VE3W	MUZ-EF50VE
			MSZ-EF50VE3B	MUZ-EF50VE
			MSZ-EF50VE3S	MUZ-EF50VE
			MSZ-SF15VA	for MXZ connection only
			MSZ-SF20VA	
			MSZ-SF25VE3	MUZ-SF25VE
				MUZ-SF25VEH
			MSZ-SF35VE3	MUZ-SF35VE
				MUZ-SF35VEH
			MSZ-SF42VE3	MUZ-SF42VE
				MUZ-SF42VEH
			MSZ-SF50VE3	MUZ-SF50VE
				MUZ-SF50VEH
			MSZ-GF60VE2	MUZ-GF60VE
			MSZ-GF71VE2	MUZ-GF71VE
			MSZ-DM25VA	MUZ-DM25VA
			MSZ-DM35VA	MUZ-DM35VA
			MSZ-HJ25VA	MUZ-HJ25VA
			MSZ-HJ35VA	MUZ-HJ35VA
			MSZ-HJ50VA	MUZ-HJ50VA
			MSZ-HJ60VA	MUZ-HJ60VA
			MSZ-HJ71VA	MUZ-HJ71VA

Type			Model Name	
			Indoor unit	Outdoor unit
Floor-Standing	Inverter	Heat pump	MFZ-KJ25VE2	MUFZ-KJ25VE
				MUFZ-KJ25VEHZ
			MFZ-KJ35VE2	MUFZ-KJ35VE
				MUFZ-KJ35VEHZ
			MFZ-KJ50VE2	MUFZ-KJ50VE
				MUFZ-KJ50VEHZ
Ceiling Cassette	Inverter	Heat pump	MLZ-KA25VA	for MXZ connection only
			MLZ-KA35VA	
			MLZ-KA50VA	

Indoor unit \ Outdoor unit			Inverter Models Heat pump type												
			MXZ-*4 2D33VA	MXZ-*4 2D42VA2	MXZ-*4 2D53VA/H2	MXZ-*4 3E54VA	MXZ-*4 3E68VA	MXZ-*4 4E72VA	MXZ-*4 4E83VA	MXZ-*4 5E102VA	MXZ-*4 6D122VA	MXZ-*4 2DM40VA	MXZ-*4 3DM50VA	MXZ-*4 2E53VAHZ	MXZ-*4 4E83VAHZ
M-series	Wall Mounted	MSZ-FH25VE2	●	●	●	●	●	●	●	●	●			●	●
		MSZ-FH35VE2		●	●	●	●	●	●	●	●			●	●
		MSZ-FH50VE2				●	●	●	●	●	●				●
		MSZ-EF18VE3W/B/S	●	●	●	●	●	●	●	●	●			●	●
		MSZ-EF22VE3W/B/S	●	●	●	●	●	●	●	●	●			●	●
		MSZ-EF25VE3W/B/S	●	●	●	●	●	●	●	●	●			●	●
		MSZ-EF35VE3W/B/S		●	●	●	●	●	●	●	●			●	●
		MSZ-EF42VE3W/B/S			●	●	●	●	●	●	●			●	●
		MSZ-EF50VE3W/B/S			●	●	●	●	●	●	●			●	●
		MSZ-SF15VA	●	●	●	●	●	●	●	●	●			●	●
		MSZ-SF20VA	●	●	●	●	●	●	●	●	●			●	●
		MSZ-SF25VE3	●	●	●	●	●	●	●	●	●			●	●
		MSZ-SF35VE3		●	●	●	●	●	●	●	●			●	●
		MSZ-SF42VE3			●	●	●	●	●	●	●			●	●
		MSZ-SF50VE3			●	●	●	●	●	●	●			●	●
		MSZ-GF60VE2					●*2	●*2	●*2	●*2	●*2				●*2
		MSZ-GF71VE2							●*2	●*2	●*2				●*2
		MSZ-DM25VA										●	●		
		MSZ-DM35VA										●	●		
		MSZ-HJ25VA										●	●		
		MSZ-HJ35VA										●	●		
		MSZ-HJ50VA											●		
		MSZ-HJ60VA													
		MSZ-HJ71VA													
	Floor Standing	MFZ-KJ25VE2	●*5*6	●*5	●*5	●*5	●*5	●	●	●	●			●	●
		MFZ-KJ35VE2		●*5	●*5	●*5	●*5	●	●	●	●			●	●
		MFZ-KJ50VE2				●*5	●*5	●	●	●	●				●
	1-way Cassette	MLZ-KA25VA	●	●	●	●	●	●	●	●	●			●	●
		MLZ-KA35VA		●	●	●	●	●	●	●	●			●	●
		MLZ-KA50VA				●	●	●	●	●	●				●
S-series	4-way Cassette	SLZ-KF25VA2	●	●	●	●	●	●	●	●	●			●	●
		SLZ-KF35VA2		●	●	●	●	●	●	●	●			●	●
		SLZ-KF50VA2				●	●	●	●	●	●				●
		SLZ-KF60VA2													
	Ceiling Concealed	SEZ-KD25VAQ*3	●	●	●	●	●	●	●	●	●			●	●
		SEZ-KD25VAL*3	●	●	●	●	●	●	●	●	●			●	●
		SEZ-KD35VAQ		●	●	●	●	●	●	●	●			●	●
		SEZ-KD35VAL		●	●	●	●	●	●	●	●			●	●
		SEZ-KD50VAQ				●	●	●	●	●	●				●
		SEZ-KD50VAL				●	●	●	●	●	●				●
		SEZ-KD60VAQ					●	●	●	●	●				●
		SEZ-KD60VAL					●	●	●	●	●				●
		SEZ-KD71VAQ							●	●	●				●
		SEZ-KD71VAL							●	●	●				●
P-series	4-way Cassette	PLA-RP50BA				●	●	●	●	●	●				●*7
		PLA-RP60BA					●	●	●	●	●				●*7
		PLA-RP71BA							●	●	●				●*7
	Ceiling Suspended	PCA-RP50KAQ				●	●	●	●	●	●				●*7
		PCA-RP60KAQ					●	●	●	●	●				●*7
		PCA-RP71KAQ							●	●	●				●*7
	Ceiling Concealed	PEAD-RP50JAQ				●*1	●*1	●*1	●*1	●*1	●*1				●*1*7
		PEAD-RP50JALQ				●*1	●*1	●*1	●*1	●*1	●*1				●*1*7
		PEAD-RP60JAQ							●*1	●*1	●*1				●*1*7
		PEAD-RP60JALQ							●*1	●*1	●*1				●*1*7
		PEAD-RP71JAQ							●*1	●*1	●*1				●*1*7
		PEAD-RP71JALQ							●*1	●*1	●*1				●*1*7

*1 Maximum total current of indoor units: 3 A or less.

*2 The combination is still under evaluation.

*3 SEZ-KD25 cannot be connected with MXZ-2D(E)/3E/4E/5E when total capacity of connected indoor units is equivalent to outdoor capacity (capacity ratio is 1).

*4 MXZ outdoor units are not designed to operate with a single indoor unit one-to-one piping work. Please install at least 2 indoor units.

*5 When connecting the MFZ-KJ series indoor unit, additional refrigerant is required. For details, please refer to C.4.4.2.

*6 Regarding MXZ-2D33VA, the second unit should be a different type in the case of selecting one MFZ-KJ.

*7 P series cannot be connected with MXZ-4E83VAHZ when ampere limit adjustment function is operated.

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C.1.1 SPECIFCATIONS

C.1.1.1 Inverter Heat Pump

Indoor Unit					MSZ-FH25VE2	MSZ-FH35VE2	MSZ-FH50VE2
Outdoor Unit					MUZ-FH25VE	MUZ-FH35VE	MUZ-FH50VE
Refrigerant					R410A (*1)	R410A (*1)	R410A(*1)
Power Supply	Source				Outdoor Power supply	Outdoor Power supply	Outdoor Power supply
	Outdoor (V/Phase/Hz)				230V/Single/50Hz	230V/Single/50Hz	230V/Single/50Hz
Cooling	Capacity	Rated		kW	2.5	3.5	5.0
		Min. - Max.		kW	1.4 - 3.5	0.8 - 4.0	1.9 - 6.0
	SHF				0.95	0.84	0.73
	Total Input	Rated		kW	0.485	0.820	1.38
	EER				5.15	4.27	3.62
		EEL Rank			A	A	A
	Design load			kW	2.5	3.5	5
	Annual electricity consumption (*2)			kWh/a	96	138	244
	SEER				9.1	8.9	7.2
		Energy efficiency class			A+++	A+++	A++
Heating (Average Season)	Capacity	Rated		kW	3.2	4.0	6.0
		Min. - Max.		kW	1.8 - 5.5	1.0 - 6.3	1.7 - 8.7
	Total Input	Rated		kW	0.580	0.800	1.48
	COP				5.52	5.00	4.05
		EEL Rank			A	A	A
	Design load			kW	3.0(-10ºC)	3.6(-10ºC)	4.5(-10ºC)
	Declared Capacity	at reference design temperature		kW	3.0(-10ºC)	3.6(-10ºC)	4.5(-10ºC)
		at bivalent temperature		kW	3.0(-10ºC)	3.6(-10ºC)	4.5(-10ºC)
		at operation limit temperature		kW	2.5(-15ºC)	3.2(-15ºC)	5.2(-15ºC)
	Back up heating capacity			kW	0.0(-10ºC)	0.0(-10ºC)	0.0(-10ºC)
	Annual electricity consumption (*2)			kWh/a	819	986	1372
	SCOP				5.1	5.1	4.6
		Energy efficiency class			A+++	A+++	A++
Operating Current (Max.)				A	10.0	10.0	14.0
Indoor Unit	Input	Rated		kW	0.029	0.029	0.031
	Operating Current (Max.)			A	0.4	0.4	0.4
	Dimensions	H x W x D		mm	305(+17) x 925 x 234	305(+17) x 925 x 234	305(+17) x 925 x 234
	Weight			kg	13.5	13.5	13.5
	Air Volume	Cooling		m^3/min.	3.9 - 4.7 - 6.3 - 8.6 - 11.6(10.5)	3.9 - 4.7 - 6.3 - 8.6 - 11.6(10.5)	6.4 - 7.4 - 8.6 - 10.1 - 12.4
	(Silent-Lo-Mid-Hi-SHi (*3) (Dry/Wet))	Heating		m^3/min.	4.0 - 4.7 - 6.4 - 9.2 - 13.2	4.0 - 4.7 - 6.4 - 9.2 - 13.2	5.7 - 7.2 - 9.0 - 11.2 - 14.6
	Sound Level (SPL)	Cooling		dB(A)	20 - 23 - 29 - 36 - 42	21 - 24 - 29 - 36 - 42	27 - 31 - 35 - 39 - 44
	(Silent-Lo-Mid-Hi-SHi (*3))	Heating		dB(A)	20 - 24 - 29 - 36 - 44	21 - 24 - 29 - 36 - 44	25 - 29 - 34 - 39 - 46
	Sound Level (PWL)	Cooling		dB(A)	58	58	60
Outdoor Unit	Dimensions	H x W x D		mm	550 x 800 x 285	550 x 800 x 285	880 x 840 x 330
	Weight			kg	37	37	55
	Air Volume	Cooling		m^3/min.	31.3	33.6	48.8
		Heating		m^3/min.	31.3	33.6	51.3
	Sound Level (SPL)	Cooling		dB(A)	46	49	51
		Heating		dB(A)	49	50	54
	Sound Level (PWL)	Cooling		dB(A)	60	61	64
	Operating Current (Max.)			A	9.6	9.6	13.6
	Breaker Size			A	10	10	16
Ext.Piping	Diameter	Liquid/Gas		mm	6.35/9.52	6.35/9.52	6.35/12.7
	Max.Length	Out-In		m	20	20	30
	Max.Height	Out-In		m	12	12	15
Guaranteed Operating Range (Outdoor)		Cooling		ºC	-10 ~ +46	-10 ~ +46	-10 ~ +46
		Heating		ºC	-15 ~ +24	-15 ~ +24	-15 ~ +24

(*1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO_2 , over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

(*2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

(*3) SHi: Super High.

					MSZ-FH25VE2	MSZ-FH35VE2	MSZ-FH50VE2
Indoor Unit					MSZ-FH25VE2	MSZ-FH35VE2	MSZ-FH50VE2
Outdoor Unit					MUZ-FH25VEHZ	MUZ-FH35VEHZ	MUZ-FH50VEHZ
Refrigerant					R410A (*1)	R410A (*1)	R410A(*1)
Power Supply	Source				Outdoor Power supply	Outdoor Power supply	Outdoor Power supply
	Outdoor (V/Phase/Hz)				230V/Single/50Hz	230V/Single/50Hz	230V/Single/50Hz
Cooling	Capacity	Rated		kW	2.5	3.5	5.0
		Min. - Max.		kW	0.8 - 3.5	0.8 - 4.0	1.9 - 6.0
	SHF				0.95	0.84	0.73
	Total Input	Rated		kW	0.485	0.820	1.38
	EER				5.15	4.27	3.62
		EEL Rank			A	A	A
	Design load			kW	2.5	3.5	5
	Annual electricity consumption (*2)			kWh/a	96	138	244
	SEER				9.1	8.9	7.2
		Energy efficiency class			A+++	A+++	A++
Heating (Average Season)	Capacity	Rated		kW	3.2	4.0	6.0
		Min. - Max.		kW	1.0 - 6.3	1.0 - 6.6	1.7 - 8.7
	Total Input	Rated		kW	0.580	0.800	1.48
	COP				5.52	5.00	4.05
		EEL Rank			A	A	A
	Design load			kW	3.2(-10ºC)	4.0(-10ºC)	6.0(-10ºC)
	Declared Capacity	at reference design temperature		kW	3.2(-10ºC)	4.0(-10ºC)	6.0(-10ºC)
		at bivalent temperature		kW	3.2(-10ºC)	4.0(-10ºC)	6.0(-10ºC)
		at operation limit temperature		kW	1.7(-25ºC)	2.6(-25ºC)	3.8(-25ºC)
	Back up heating capacity			kW	0.0(-10ºC)	0.0(-10ºC)	0.0(-10ºC)
	Annual electricity consumption (*2)			kWh/a	924	1173	2006
	SCOP				4.9	4.8	4.2
		Energy efficiency class			A++	A++	A+
Operating Current (Max.)				A	10.0	10.5	14.0
Indoor Unit	Input	Rated		kW	0.029	0.031	0.031
	Operating Current (Max.)			A	0.4	0.4	0.4
	Dimensions	H x W x D		mm	305(+17) x 925 x 234	305(+17) x 925 x 234	305(+17) x 925 x 234
	Weight			kg	13.5	13.5	13.5
	Air Volume	Cooling		m^3/min.	3.9 - 4.7 - 6.3 - 8.6 - 11.6(10.5)	3.9 - 4.7 - 6.3 - 8.6 - 11.6(10.5)	6.4 - 7.4 - 8.6 - 10.1 - 12.4
	(Silent-Lo-Mid-Hi-SHi (*3) (Dry/Wet))	Heating		m^3/min.	4.0 - 4.7 - 6.4 - 9.2 - 13.2	4.0 - 4.7 - 6.4 - 9.2 - 13.2	5.7 - 7.2 - 9.0 - 11.2 - 14.6
	Sound Level (SPL)	Cooling		dB(A)	20 - 23 - 29 - 36 - 42	21 - 24 - 29 - 36 - 42	27 - 31 - 35 - 39 - 44
	(Silent-Lo-Mid-Hi-SHi (*3))	Heating		dB(A)	20 - 24 - 29 - 36 - 44	21 - 24 - 29 - 36 - 44	25 - 29 - 34 - 39 - 46
	Sound Level (PWL)	Cooling		dB(A)	58	58	60
Outdoor Unit	Dimensions	H x W x D		mm	550 x 800 x 285	550 x 800 x 285	880 x 840 x 330
	Weight			kg	37	37	55
	Air Volume	Cooling		m^3/min.	31.3	31.3	48.8
		Heating		m^3/min.	31.3	31.3	51.3
	Sound Level (SPL)	Cooling		dB(A)	46	46	51
		Heating		dB(A)	49	49	54
	Sound Level (PWL)	Cooling		dB(A)	60	61	64
	Operating Current (Max.)			A	9.6	10.1	13.6
	Breaker Size			A	10	12	16
Ext.Piping	Diameter	Liquid/Gas		mm	6.35/9.52	6.35/9.52	6.35/12.7
	Max.Length	Out-In		m	20	20	30
	Max.Height	Out-In		m	12	12	15
Guaranteed Operating Range (Outdoor)		Cooling		ºC	-10 ~ +46	-10 ~ +46	-10 ~ +46
		Heating		ºC	-25 ~ +24	-25 ~ +24	-25 ~ +24

(*1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO_2 , over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

(*2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

(*3) SHi: Super High.

Indoor Unit					MSZ-EF18VE3	MSZ-EF22VE3	MSZ-EF25VE3	MSZ-EF25VE3
Outdoor Unit					for MXZ connection	for MXZ connection	MUZ-EF25VE	MUZ-EF25VEH
Refrigerant					R410A (*1)	R410A (*1)	R410A (*1)	R410A (*1)
Power Supply	Source				Outdoor Power supply	Outdoor Power supply	Outdoor Power supply	Outdoor Power supply
	Outdoor (V/Phase/Hz)				230V/Single/50Hz	230V/Single/50Hz	230V/Single/50Hz	230V/Single/50Hz
Cooling	Capacity	Rated		kW	-	-	2.5	2.5
		Min. - Max.		kW	-	-	1.2 - 3.4	1.2 - 3.4
	SHF				-	-	0.92	0.92
	Total Input	Rated		kW	-	-	0.545	0.545
	EER				-	-	4.59	4.59
		EEL Rank			-	-	A	A
	Design load			kW	-	-	2.5	2.5
	Annual electricity consumption (*2)			kWh/a	-	-	103	103
	SEER				-	-	8.5	8.5
		Energy efficiency class			-	-	A+++	A+++
Heating (Average Season)	Capacity	Rated		kW	-	-	3.2	3.2
		Min. - Max.		kW	-	-	1.1 - 4.2	1.1 - 4.2
	Total Input	Rated		kW	-	-	0.700	0.700
	COP				-	-	4.57	4.57
		EEL Rank			-	-	A	A
	Design load			kW	-	-	2.4(-10ºC)	2.4(-10ºC)
	Declared Capacity	at reference design temperature		kW	-	-	2.4(-10ºC)	2.4(-10ºC)
		at bivalent temperature		kW	-	-	2.4(-10ºC)	2.4(-10ºC)
		at operation limit temperature		kW	-	-	2.0(-15ºC)	1.6(-20ºC)
	Back up heating capacity			kW	-	-	0.0(-10ºC)	0.0(-10ºC)
	Annual electricity consumption (*2)			kWh/a	-	-	716	730
	SCOP				-	-	4.7	4.6
		Energy efficiency class			-	-	A++	A++
Operating Current (Max.)				A	-	-	7.3	7.3
Indoor Unit	Input	Rated		kW	0.027	0.027	0.027	0.027
	Operating Current (Max.)			A	0.3	0.3	0.3	0.3
	Dimensions	H x W x D		mm	299 x 885 x 195	299 x 885 x 195	299 x 885 x 195	299 x 885 x 195
	Weight			kg	11.5	11.5	11.5	11.5
	Air Volume	Cooling		m^3/min.	4.0 - 4.6 - 6.3 - 8.3 - 10.5	4.0 - 4.6 - 6.3 - 8.3 - 10.5	4.0 - 4.6 - 6.3 - 8.3 - 10.5	4.0 - 4.6 - 6.3 - 8.3 - 10.5
	(Silent-Lo-Mid-Hi-SHi (*3) (Dry/Wet))	Heating		m^3/min.	4.0 - 4.6 - 6.2 - 8.9 - 11.9	4.0 - 4.6 - 6.2 - 8.9 - 11.9	4.0 - 4.6 - 6.2 - 8.9 - 11.9	4.0 - 4.6 - 6.2 - 8.9 - 11.9
	Sound Level (SPL)	Cooling		dB(A)	21 - 23 - 29 - 36 - 42	21 - 23 - 29 - 36 - 42	21 - 23 - 29 - 36 - 42	21 - 23 - 29 - 36 - 42
	(Silent-Lo-Mid-Hi-SHi (*3))	Heating		dB(A)	21 - 24 - 29 - 37 - 45	21 - 24 - 29 - 37 - 45	21 - 24 - 29 - 37 - 45	21 - 24 - 29 - 37 - 45
	Sound Level (PWL)	Cooling		dB(A)	-	-	60	60
Outdoor Unit	Dimensions	H x W x D		mm	-	-	550 x 800 x 285	550 x 800 x 285
	Weight			kg	-	-	30	30
	Air Volume	Cooling		m^3/min.	-	-	32.6	32.6
		Heating		m^3/min.	-	-	32.2	32.2
	Sound Level (SPL)	Cooling		dB(A)	-	-	47	47
		Heating		dB(A)	-	-	48	48
	Sound Level (PWL)	Cooling		dB(A)	-	-	58	58
	Operating Current (Max.)			A	-	-	7.0	7.0
	Breaker Size			A	-	-	10	10
Ext.Piping	Diameter	Liquid/Gas		mm	-	-	6.35/9.52	6.35/9.52
	Max.Length	Out-In		m	-	-	20	20
	Max.Height	Out-In		m	-	-	12	12
Guaranteed Operating Range (Outdoor)		Cooling		ºC	-	-	-10 ~ +46	-10 ~ +46
		Heating		ºC	-	-	-15 ~ +24	-20 ~ +24

(*1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO_2 , over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

(*2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

(*3) SHi: Super High.

Indoor Unit				MSZ-EF35VE3	MSZ-EF35VE3	MSZ-EF42VE3	MSZ-EF50VE3
Outdoor Unit				MUZ-EF35VE	MUZ-EF35VEH	MUZ-EF42VE	MUZ-EF50VE
Refrigerant				R410A (*1)	R410A (*1)	R410A (*1)	R410A (*1)
Power Supply	Source			Outdoor Power supply	Outdoor Power supply	Outdoor Power supply	Outdoor Power supply
	Outdoor (V/Phase/Hz)			230V/Single/50Hz	230V/Single/50Hz	230V/Single/50Hz	230V/Single/50Hz
Cooling	Capacity	Rated	kW	3.5	3.5	4.2	5.0
		Min. - Max.	kW	1.4 - 4.0	1.4 - 4.0	0.9 - 4.6	1.4 - 5.4
	SHF			0.8	0.8	0.72	0.71
	Total Input	Rated	kW	0.910	0.910	1.280	1.560
	EER			3.85	3.85	3.28	3.21
		EEL Rank		A	A	A	A
	Design load		kW	3.5	3.5	4.2	5
	Annual electricity consumption (*2)		kWh/a	144	144	192	244
	SEER			8.5	8.5	7.7	7.2
		Energy efficiency class		A+++	A+++	A++	A++
Heating (Average Season)	Capacity	Rated	kW	4.0	4.0	5.4	5.8
		Min. - Max.	kW	1.8 - 5.5	1.8 - 5.5	1.4 - 6.3	1.6 - 7.5
	Total Input	Rated	kW	0.955	0.955	1.460	1.565
	COP			4.19	4.19	3.70	3.71
		EEL Rank		A	A	A	A
	Design load		kW	2.9(-10ºC)	2.9(-10ºC)	3.8(-10ºC)	4.2(-10ºC)
	Declared Capacity	at reference design temperature	kW	2.9(-10ºC)	2.9(-10ºC)	3.8(-10ºC)	4.2(-10ºC)
		at bivalent temperature	kW	2.9(-10ºC)	2.9(-10ºC)	3.8(-10ºC)	4.2(-10ºC)
		at operation limit temperature	kW	2.4(-15ºC)	1.7(-20ºC)	3.4(-15ºC)	3.5(-15ºC)
	Back up heating capacity		kW	0.0(-10ºC)	0.0(-10ºC)	0.0(-10ºC)	0.0(-10ºC)
	Annual electricity consumption (*2)		kWh/a	882	910	1155	1309
	SCOP			4.6	4.5	4.6	4.5
		Energy efficiency class		A++	A+	A++	A+
Operating Current (Max.)			A	8.5	8.5	9.5	12.4
Indoor Unit	Input	Rated	kW	0.031	0.031	0.031	0.034
	Operating Current (Max.)		A	0.3	0.3	0.3	0.4
	Dimensions	H x W x D	mm	299 x 885 x 195	299 x 885 x 195	299 x 885 x 195	299 x 885 x 195
	Weight		kg	11.5	11.5	11.5	11.5
	Air Volume	Cooling	m^3/min.	4.0 - 4.6 - 6.3 - 8.3 - 10.5	4.0 - 4.6 - 6.3 - 8.3 - 10.5	5.8 - 6.6 - 7.7 - 8.9 - 10.3	5.8 - 6.8 - 7.9 - 9.3 - 11.0
	(Silent-Lo-Mid-Hi-SHi (*3) (Dry/Wet))	Heating	m^3/min.	4.0 - 4.6 - 6.2 - 8.9 - 12.7	4.0 - 4.6 - 6.2 - 8.9 - 12.7	5.5 - 6.3 - 7.8 - 9.9 - 12.7	6.4 - 7.3 - 9.0 - 11.1 - 13.2
	Sound Level (SPL)	Cooling	dB(A)	21 - 24 - 29 - 36 - 42	21 - 24 - 29 - 36 - 42	28 - 31 - 35 - 39 - 42	30 - 33 - 36 - 40 - 43
	(Silent-Lo-Mid-Hi-SHi (*3))	Heating	dB(A)	21 - 24 - 30 - 38 - 46	21 - 24 - 30 - 38 - 46	28 - 30 - 35 - 41 - 48	30 - 33 - 37 - 43 - 49
	Sound Level (PWL)	Cooling	dB(A)	60	60	60	60
Outdoor Unit	Dimensions	H x W x D	mm	550 x 800 x 285	550 x 800 x 285	550 x 800 x 285	880 x 840 x 330
	Weight		kg	35	35	35	54
	Air Volume	Cooling	m^3/min.	33.6	33.6	35.2	44.6
		Heating	m^3/min.	33.6	33.6	33.6	44.6
	Sound Level (SPL)	Cooling	dB(A)	49	49	50	52
		Heating	dB(A)	50	50	51	52
	Sound Level (PWL)	Cooling	dB(A)	61	61	62	65
	Operating Current (Max.)		A	8.2	8.2	9.2	12.0
	Breaker Size		A	10	10	10	16
Ext.Piping	Diameter	Liquid/Gas	mm	6.35/9.52	6.35/9.52	6.35/9.52	6.35/12.7
	Max.Length	Out-In	m	20	20	20	30
	Max.Height	Out-In	m	12	12	12	15
Guaranteed Operating Range (Outdoor)		Cooling	ºC	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46
		Heating	ºC	-15 ~ +24	-20 ~ +24	-15 ~ +24	-15 ~ +24

(*1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO_2 , over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

(*2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

(*3) SHi: Super High.

Indoor Unit				MSZ-SF15VA	MSZ-SF20VA
Outdoor Unit				for MXZ connection	for MXZ connection
Refrigerant				R410A (*1)	R410A (*1)
Power Supply	Source			Outdoor Power supply	Outdoor Power supply
	Outdoor (V/Phase/Hz)			230V/Single/50Hz	230V/Single/50Hz
Cooling	Capacity	Rated	kW	-	-
		Min. - Max.	kW	-	-
	SHF			-	-
	Total Input	Rated	kW	-	-
	EER			-	-
		EEL Rank		-	-
	Design load		kW	-	-
	Annual electricity consumption (*2)		kWh/a	-	-
	SEER			-	-
		Energy efficiency class		-	-
Heating	Capacity	Rated	kW	-	-
		Min. - Max.	kW	-	-
	Total Input	Rated	kW	-	-
	COP			-	-
		EEL Rank		-	-
	Design load		kW	-	-
	Declared Capacity	at reference design temperature	kW	-	-
		at bivalent temperature	kW	-	-
		at operation limit temperature	kW	-	-
	Back up heating capacity		kW	-	-
	Annual electricity consumption (*2)		kWh/a	-	-
	SCOP			-	-
		Energy efficiency class		-	-
Operating Current (Max.)			A	-	-
Indoor Unit	Input	Rated	kW	0.017	0.019
	Operating Current (Max.)		A	0.17	0.19
	Dimensions	H x W x D	mm	250 x 760 x 168	250 x 760 x 168
	Weight		kg	7.7	7.7
	Air Volume	Cooling	m^3/min.	3.5 - 3.9 - 4.6 - 5.5 - 6.4	3.5 - 3.9 - 4.6 - 5.5 - 6.9
	(Silent-Lo-Mid-Hi-SHi (*3) (Dry/Wet))	Heating	m^3/min.	3.7 - 4.4 - 5.0 - 6.0 - 6.8	3.7 - 4.4 - 5.0 - 6.0 - 7.3
	Sound Level (SPL)	Cooling	dB(A)	21 - 26 - 30 - 35 - 40	21 - 26 - 30 - 35 - 42
	(Silent-Lo-Mid-Hi-SHi (*3))	Heating	dB(A)	21 - 26 - 30 - 35 - 40	21 - 26 - 30 - 35 - 42
	Sound Level (PWL)	Cooling	dB(A)	59	60
Outdoor Unit	Dimensions	H x W x D	mm	-	-
	Weight		kg	-	-
	Air Volume	Cooling	m^3/min.	-	-
		Heating	m^3/min.	-	-
	Sound Level (SPL)	Cooling	dB(A)	-	-
		Heating	dB(A)	-	-
	Sound Level (PWL)	Cooling	dB(A)	-	-
	Operating Current (Max.)		A	-	-
	Breaker Size		A	-	-
Ext.Piping	Diameter	Liquid/Gas	mm	-	-
	Max.Length	Out-In	m	-	-
	Max.Height	Out-In	m	-	-
Guaranteed Operating Range (Outdoor)		Cooling	°C	-	-
		Heating	°C	-	-

(*1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO_2 , over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

(*2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

(*3) SHi: Super High.

Indoor Unit					MSZ-SF25VE3	MSZ-SF25VE3	MSZ-SF35VE3	MSZ-SF35VE3
Outdoor Unit					MUZ-SF25VE	MUZ-SF25VEH	MUZ-SF35VE	MUZ-SF35VEH
Refrigerant					R410A (*1)	R410A (*1)	R410A (*1)	R410A (*1)
Power Supply	Source				Outdoor Power supply	Outdoor Power supply	Outdoor Power supply	Outdoor Power supply
	Outdoor (V/Phase/Hz)				230V/Single/50Hz	230V/Single/50Hz	230V/Single/50Hz	230V/Single/50Hz
Cooling	Capacity	Rated		kW	2.5	2.5	3.5	3.5
		Min. - Max.		kW	0.9 - 3.4	0.9 - 3.4	1.1 - 3.8	1.1 - 3.8
	SHF				0.92	0.92	0.8	0.8
	Total Input	Rated		kW	0.600	0.600	1.080	1.080
	EER				4.17	4.17	3.24	3.24
		EEL Rank			A	A	A	A
	Design load			kW	2.5	2.5	3.5	3.5
	Annual electricity consumption (*2)			kWh/a	116	116	171	171
	SEER				7.6	7.6	7.2	7.2
		Energy efficiency class			A++	A++	A++	A++
Heating	Capacity	Rated		kW	3.2	3.2	4.0	4.0
		Min. - Max.		kW	1.0 - 4.1	1.0 - 4.1	1.3 - 4.6	1.3 - 4.6
	Total Input	Rated		kW	0.780	0.780	1.030	1.030
	COP				4.10	4.10	3.88	3.88
		EEL Rank			A	A	A	A
	Design load			kW	2.4(-10ºC)	2.4(-10ºC)	2.9(-10ºC)	2.9(-10ºC)
	Declared Capacity	at reference design temperature		kW	2.4(-10ºC)	2.4(-10ºC)	2.9(-10ºC)	2.9(-10ºC)
		at bivalent temperature		kW	2.4(-10ºC)	2.4(-10ºC)	2.9(-10ºC)	2.9(-10ºC)
		at operation limit temperature		kW	2.0(-15ºC)	1.6(-20ºC)	2.2(-15ºC)	1.6(-20ºC)
	Back up heating capacity			kW	0.0(-10ºC)	0.0(-10ºC)	0.0(-10ºC)	0.0(-10ºC)
	Annual electricity consumption (*2)			kWh/a	764	790	923	948
	SCOP				4.4	4.3	4.4	4.3
		Energy efficiency class			A+	A+	A+	A+
Operating Current (Max.)				A	8.4	8.4	8.5	8.5
Indoor Unit	Input	Rated		kW	0.024	0.024	0.027	0.027
	Operating Current (Max.)			A	0.2	0.2	0.3	0.3
	Dimensions	H x W x D		mm	299 x 798 x 195	299 x 798 x 195	299 x 798 x 195	299 x 798 x 195
	Weight			kg	10	10	10	10
	Air Volume	Cooling		m^3/min.	3.2 - 4.1 - 5.6 - 7.2 - 9.1	3.2 - 4.1 - 5.6 - 7.2 - 9.1	3.2 - 4.1 - 5.6 - 7.2 - 9.1	3.2 - 4.1 - 5.6 - 7.2 - 9.1
	(Silent-Lo-Mid-Hi-SHi (*3) (Dry/Wet))	Heating		m^3/min.	3.0 - 4.1 - 6.7 - 8.2 - 10.3	3.0 - 4.1 - 6.7 - 8.2 - 10.3	3.0 - 4.1 - 6.7 - 8.3 - 11.0	3.0 - 4.1 - 6.7 - 8.3 - 11.0
	Sound Level (SPL)	Cooling		dB(A)	19 (*4) - 24 - 30 - 36 - 42	19 (*4) - 24 - 30 - 36 - 42	19 (*4) - 24 - 30 - 36 - 42	19 (*4) - 24 - 30 - 36 - 42
	(Silent-Lo-Mid-Hi-SHi (*3))	Heating		dB(A)	19 (*4) - 24 - 34 - 39 - 45	19 (*4) - 24 - 34 - 39 - 45	19 (*4) - 24 - 34 - 40 - 46	19 (*4) - 24 - 34 - 40 - 46
	Sound Level (PWL)	Cooling		dB(A)	57	57	57	57
Outdoor Unit	Dimensions	H x W x D		mm	550 x 800 x 285	550 x 800 x 285	550 x 800 x 285	550 x 800 x 285
	Weight			kg	31	31	31	31
	Air Volume	Cooling		m^3/min.	31.1	31.1	35.9	35.9
		Heating		m^3/min.	30.7	30.7	35.9	35.9
	Sound Level (SPL)	Cooling		dB(A)	47	47	49	49
		Heating		dB(A)	48	48	50	50
	Sound Level (PWL)	Cooling		dB(A)	58	58	62	62
	Operating Current (Max.)			A	8.2	8.2	8.2	8.2
	Breaker Size			A	10	10	10	10
Ext.Piping	Diameter	Liquid/Gas		mm	6.35/9.52	6.35/9.52	6.35/9.52	6.35/9.52
	Max.Length	Out-In		m	20	20	20	20
	Max.Height	Out-In		m	12	12	12	12
Guaranteed Operating Range (Outdoor)		Cooling		ºC	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46
		Heating		ºC	-15 ~ +24	-20 ~ +24	-15 ~ +24	-20 ~ +24

(*1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO_2 , over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

(*2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

(*3) SHi: Super High.

(*4) SF25 - 35 For single use: only 19dB(A). For multi use (MXZ): 21dB(A)

Indoor Unit					MSZ-SF42VE3	MSZ-SF42VE3	MSZ-SF50VE3	MSZ-SF50VE3
Outdoor Unit					MUZ-SF42VE	MUZ-SF42VEH	MUZ-SF50VE	MUZ-SF50VEH
Refrigerant					R410A (*1)	R410A (*1)	R410A (*1)	R410A (*1)
Power Supply	Source				Outdoor Power supply	Outdoor Power supply	Outdoor Power supply	Outdoor Power supply
	Outdoor (V/Phase/Hz)				230V/Single/50Hz	230V/Single/50Hz	230V/Single/50Hz	230V/Single/50Hz
Cooling	Capacity	Rated		kW	4.2	4.2	5.0	5.0
		Min. - Max.		kW	0.8 - 4.5	0.8 - 4.5	1.4 - 5.4	1.4 - 5.4
	SHF				0.72	0.72	0.7	0.7
	Total Input	Rated		kW	1.340	1.340	1.660	1.660
	EER				3.13	3.13	3.01	3.01
		EEL Rank			B	B	B	B
	Design load			kW	4.2	4.2	5.0	5.0
	Annual electricity consumption (*2)			kWh/a	196	196	246	246
	SEER				7.5	7.5	7.2	7.2
		Energy efficiency class			A++	A++	A++	A++
Heating	Capacity	Rated		kW	5.4	5.4	5.8	5.8
		Min. - Max.		kW	1.3 - 6.0	1.3 - 6.0	1.4 - 7.3	1.4 - 7.3
	Total Input	Rated		kW	1.580	1.580	1.700	1.700
	COP				3.42	3.42	3.41	3.41
		EEL Rank			B	B	B	B
	Design load			kW	3.8(-10ºC)	3.8(-10ºC)	4.2(-10ºC)	4.2(-10ºC)
	Declared Capacity	at reference design temperature		kW	3.8(-10ºC)	3.8(-10ºC)	4.2(-10ºC)	4.2(-10ºC)
		at bivalent temperature		kW	3.8(-10ºC)	3.8(-10ºC)	4.2(-10ºC)	4.2(-10ºC)
		at operation limit temperature		kW	3.4(-15ºC)	2.2(-20ºC)	3.4(-15ºC)	2.3(-20ºC)
	Back up heating capacity			kW	0.0(-10ºC)	0.0(-10ºC)	0.0(-10ºC)	0.0(-10ºC)
	Annual electricity consumption (*2)			kWh/a	1215	1242	1351	1380
	SCOP				4.4	4.3	4.4	4.3
		Energy efficiency class			A+	A+	A+	A+
Operating Current (Max.)				A	9.5	9.5	12.3	12.3
Indoor Unit	Input	Rated		kW	0.027	0.027	0.035	0.035
	Operating Current (Max.)			A	0.3	0.3	0.3	0.3
	Dimensions	H x W x D		mm	299 x 798 x 195	299 x 798 x 195	299 x 798 x 195	299 x 798 x 195
	Weight			kg	10	10	10	10
	Air Volume	Cooling		m^3/min.	4.7 - 5.8 - 6.7 - 7.9 - 9.1	4.7 - 5.8 - 6.7 - 7.9 - 9.1	5.1 - 6.2 - 7.0 - 8.2 - 9.9	5.1 - 6.2 - 7.0 - 8.2 - 9.9
	(Silent-Lo-Mid-Hi-SHi (*3) (Dry/Wet))	Heating		m^3/min.	4.7 - 5.8 - 7.2 - 9.1 - 11.4	4.7 - 5.8 - 7.2 - 9.1 - 11.4	5.1 - 6.4 - 8.0 - 9.8 - 12.0	5.1 - 6.4 - 8.0 - 9.8 - 12.0
	Sound Level (SPL)	Cooling		dB(A)	26 (*4) - 31 - 34 - 38 - 42	26 (*4) - 31 - 34 - 38 - 42	28 (*5) - 33 - 36 - 40 - 45	28 (*5) - 33 - 36 - 40 - 45
	(Silent-Lo-Mid-Hi-SHi (*3))	Heating		dB(A)	26 (*4) - 31 - 36 - 42 - 47	26 (*4) - 31 - 36 - 42 - 47	28 (*5) - 33 - 38 - 43 - 49	28 (*5) - 33 - 38 - 43 - 49
	Sound Level (PWL)	Cooling		dB(A)	57	57	58	58
Outdoor Unit	Dimensions	H x W x D		mm	550 x 800 x 285	550 x 800 x 285	880 x 840 x 330	880 x 840 x 330
	Weight			kg	35	35	55	55
	Air Volume	Cooling		m^3/min.	35.2	35.2	44.6	44.6
		Heating		m^3/min.	33.6	33.6	44.6	44.6
	Sound Level (SPL)	Cooling		dB(A)	50	50	52	52
		Heating		dB(A)	51	51	52	52
	Sound Level (PWL)	Cooling		dB(A)	63	63	65	65
	Operating Current (Max.)			A	9.2	9.2	12.0	12.0
	Breaker Size			A	10	10	16	16
Ext.Piping	Diameter	Liquid/Gas		mm	6.35/9.52	6.35/9.52	6.35/12.7	6.35/12.7
	Max.Length	Out-In		m	20	20	30	30
	Max.Height	Out-In		m	12	12	15	15
Guaranteed Operating Range (Outdoor)		Cooling		ºC	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46
		Heating		ºC	-15 ~ +24	-20 ~ +24	-15 ~ +24	-20 ~ +24

(*1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO_2 , over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

(*2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

(*3) SHi: Super High.

(*4) SF42 For single use: only 26dB(A). For multi use (MXZ): 28dB(A)

(*5) SF50 For single use: only 28dB(A). For multi use (MXZ): 30dB(A)

Indoor Unit					MSZ-GF60VE2	MSZ-GF71VE2
Outdoor Unit					MUZ-GF60VE	MUZ-GF71VE
Refrigerant					R410A (*1)	R410A (*1)
Power Supply	Source				Outdoor Power supply	Outdoor Power supply
	Outdoor (V/Phase/Hz)				230V/Single/50Hz	230V/Single/50Hz
Cooling	Capacity	Rated		kW	6.1	7.1
		Min. - Max.		kW	1.4 - 7.5	2.0 - 8.7
	SHF				0.79	0.78
	Total Input	Rated		kW	1.79	2.13
	EER				3.41	3.33
		EEL Rank			A	A
	Design load			kW	6.1	7.1
	Annual electricity consumption (*2)			kWh/a	311	364
	SEER				6.8	6.8
		Energy efficiency class			A++	A++
Heating	Capacity	Rated		kW	6.8	8.1
		Min. - Max.		kW	2.0 - 9.3	2.2 - 9.9
	Total Input	Rated		kW	1.81	2.23
	COP				3.76	3.63
		EEL Rank			A	A
	Design load			kW	4.6(-10ºC)	6.7(-10ºC)
	Declared Capacity	at reference design temperature		kW	4.6(-10ºC)	6.7(-10ºC)
		at bivalent temperature		kW	4.6(-10ºC)	6.7(-10ºC)
		at operation limit temperature		kW	3.7(-15ºC)	5.4(-15ºC)
	Back up heating capacity			kW	0.0(-10ºC)	0.0(-10ºC)
	Annual electricity consumption (*2)			kWh/a	1489	2204
	SCOP				4.3	4.2
		Energy efficiency class			A+	A+
Operating Current (Max.)				A	14.5	16.6
Indoor Unit	Input	Rated		kW	0.062	0.058
	Operating Current (Max.)			A	0.5	0.5
	Dimensions	H x W x D		mm	325 x 1100 x 238	325 x 1100 x 238
	Weight			kg	16	16
	Air Volume	Cooling		m^3/min.	9.8 - 11.3 - 13.4 - 15.6 - 18.3	9.7 - 11.5 - 13.3 - 15.4 - 17.8
	(Silent-Lo-Mid-Hi-SHi (*3) (Dry/Wet))	Heating		m^3/min.	9.8 - 11.3 - 13.4 - 15.6 - 18.3	10.2 - 11.5 - 13.3 - 15.4 - 17.8
	Sound Level (SPL)	Cooling		dB(A)	29-37-41-45-49	30-37-41-45-49
	(Silent-Lo-Mid-Hi-SHi (*3))	Heating		dB(A)	29-37-41-45-49	30-37-41-45-49
	Sound Level (PWL)	Cooling		dB(A)	65	65
Outdoor Unit	Dimensions	H x W x D		mm	880 x 840 x 330	880 x 840 x 330
	Weight			kg	50	53
	Air Volume	Cooling		m^3/min.	49.2	50.1
		Heating		m^3/min.	49.2	48.2
	Sound Level (SPL)	Cooling		dB(A)	55	55
		Heating		dB(A)	55	55
	Sound Level (PWL)	Cooling		dB(A)	65	65
	Operating Current (Max.)			A	14.0	16.1
	Breaker Size			A	20	20
Ext.Piping	Diameter	Liquid/Gas		mm	6.35/15.88	9.52/15.88
	Max.Length	Out-In		m	30	30
	Max.Height	Out-In		m	15	15
Guaranteed Operating Range (Outdoor)		Cooling		ºC	-10~+46	-10~+46
		Heating		ºC	-15~+24	-15~+24

(*1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO_2 , over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

(*2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

(*3) SHi: Super High.

Indoor Unit					MSZ-DM25VA	MSZ-DM35VA
Outdoor Unit					MUZ-DM25VA	MUZ-DM35VA
Refrigerant					R410A(*1)	R410A(*1)
Power Supply	Source				Indoor Power supply	Indoor Power supply
	Outdoor(V/Phase/Hz)				230V/SinglePhase/50Hz	230V/SinglePhase/50Hz
Cooling	Capacity	Rated		kW	2.5	3.15
		Min-Max		kW	1.3 - 3.0	1.4 - 3.5
	SHF				0.89	0.87
	Total Input	Rated		kW	0.710	1.020
	EER				3.52	3.09
		EEL Rank			A	B
	Design load			kW	2.5	3.1
	Annual electricity consumption (*2)			kWh/a	149	190
	SEER				5.8	5.7
		Energy efficiency class			A+	A+
Heating (Average Season)	Capacity	Rated		kW	3.15	3.6
		Min-Max		kW	0.9 - 3.5	1.1 - 4.1
	Total Input	Rated		kW	0.850	0.975
	COP				3.71	3.69
		EEL Rank			A	A
	Design load			kW	1.9(-10ºC)	2.4(-10ºC)
	Declared Capacity	at reference design temperature		kW	1.9(-10ºC)	2.4(-10ºC)
		at bivalent temperature		kW	1.9(-10ºC)	2.4(-10ºC)
		at operation limit temperature		kW	1.9(-10ºC)	2.4(-10ºC)
	Back up heating capacity			kW	0.0(-10ºC)	0.0(-10ºC)
	Annual electricity consumption (*2)			kWh/a	647	809
	SCOP				4.1	4.1
		Energy efficiency class			A+	A+
Operating Current(Max)				A	5.8	6.5
Indoor Unit	Input	Rated		kW	0.020	0.021
	Operating Current(Max)			A	0.3	0.3
	Dimensions	H*W*D		mm	290 x 799 x 232	290 x 799 x 232
	Weight			kg	9	9
	Air Volume	Cooling		m^3/min	3.8 - 5.5 - 7.3 - 9.5	3.8 - 5.7 - 7.8 - 10.9
	(SLo-Lo-Mid-Hi-SHi(*3)(Dry/Wet))	Heating		m^3/min	3.5 - 5.5 - 7.5 - 10.0	3.5 - 5.5 - 7.5 - 10.3
	Sound Level (SPL)	Cooling		dB(A)	22 - 30 - 37 - 43	22 - 31 - 38 - 45
	(SLo-Lo-Mid-Hi-SHi)	Heating		dB(A)	23 - 30 - 37 - 43	23 - 30 - 37 - 44
	Sound Level (PWL*3)	Cooling		dB(A)	57	60
Outdoor Unit	Dimensions	H*W*D		mm	538 x 699 x 249	538 x 699 x 249
	Weight			kg	24	25
	Air Volume	Cooling		m^3/min	31.5	31.5
		Heating		m^3/min	31.5	31.5
	Sound Level (SPL)	Cooling		dB(A)	50	51
		Heating		dB(A)	50	51
	Sound Level (PWL)	Cooling		dB(A)	63	64
	Operating Current(Max)			A	5.5	6.2
	Breaker Size			A	10	10
Ext.Piping	Diameter	Liquid/Gas		mm	6.35/9.52	6.35/9.52
	Max.Length	Out-In		m	20	20
	Max.Height	Out-In		m	12	12
Guaranteed Operating Range(Outdoor)		Cooling		ºC	-10 ~ +46	-10 ~ +46
		Heating		ºC	-10 ~ +24	-10 ~ +24

(*1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO_2 , over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

(*2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

(*3) SHi: Super High.

Indoor Unit				MSZ-HJ25VA	MSZHJ35VA	MSZ-HJ50VA
Outdoor Unit				MUZ-HJ25VA	MUZ-HJ35VA	MUZ-HJ50VA
Refrigerant				R410A (*1)	R410A (*1)	R410A (*1)
Power Supply	Source			Indoor Power supply	Indoor Power supply	Indoor Power supply
	Outdoor(V/Phase/Hz)			230V/SinglePhase/50Hz	230V/SinglePhase/50Hz	230V/SinglePhase/50Hz
Cooling	Capacity	Rated	kW	2.5	3.15	5.0
		Min. - Max.	kW	1.3 - 3.0	1.4 - 3.5	1.3 - 5.0
	SHF			0.89	0.87	0.70
	Total Input	Rated	kW	0.730	1.040	2.050
	EER			3.42	3.03	2.44
		EEL Rank		A	B	E
	Design load		kW	2.5	3.1	5.0
	Annual electricity consumption (*2)		kWh/a	171	212	292
	SEER			5.1	5.1	6.0
		Energy efficiency class		A	A	A+
Heating (Average Season)	Capacity	Rated	kW	3.15	3.6	5.4
		Min. - Max.	kW	0.9 - 3.5	1.1 - 4.1	1.4 - 6.5
	Total Input	Rated	kW	0.870	0.995	1.480
	COP			3.62	3.62	3.65
		EEL Rank		A	A	A
	Design load		kW	1.9(-10ºC)	2.4(-10ºC)	3.8(-10ºC)
	Declared Capacity	at reference design temperature	kW	1.9(-10ºC)	2.4(-10ºC)	3.8(-10ºC)
		at bivalent temperature	kW	1.9(-10ºC)	2.4(-10ºC)	3.8(-10ºC)
		at operation limit temperature	kW	1.9(-10ºC)	2.4(-10ºC)	3.8(-10ºC)
	Back up heating capacity		kW	0.0(-10ºC)	0.0(-10ºC)	0.0(-10ºC)
	Annual electricity consumption (*2)		kWh/a	698	885	1267
	SCOP			3.8	3.8	4.2
		Energy efficiency class		A	A	A+
Operating Current (Max.)			A	5.8	6.5	9.8
Indoor Unit	Input	Rated	kW	0.020	0.021	0.037
	Operating Current (Max.)		A	0.3	0.3	0.4
	Dimensions	H x W x D	mm	290 x 799 x 232	290 x 799 x 232	290 x 799 x 232
	Weight		kg	9	9	9
	Air Volume	Cooling	m^3/min.	3.8 - 5.5 - 7.3 - 9.5	3.8 - 5.7 - 7.8 - 10.9	6.3 - 9.1 - 11.1 - 12.9
	(Lo-Mid-Hi-SHi (*3) (Dry/Wet))	Heating	m^3/min.	3.5 - 5.5 - 7.5 - 10.0	3.5 - 5.5 - 7.5 - 10.3	6.1 - 8.3 - 11.1 - 14.3
	Sound Level (SPL)	Cooling	dB(A)	22 - 30 - 37 - 43	22 - 31 - 38 - 45	28 - 36 - 40 - 45
	(Lo-Mid-Hi-SHi (*3))	Heating	dB(A)	23 - 30 - 37 - 43	23 - 30 - 37 - 44	27 - 34 - 41 - 47
	Sound Level (PWL)	Cooling	dB(A)	57	60	60
Outdoor Unit	Dimensions	H x W x D	mm	538 x 699 x 249	538 x 699 x 249	550 x 800 x 285
	Weight		kg	24	25	36
	Air Volume	Cooling	m^3/min.	31.5	31.5	36.3
		Heating	m^3/min.	31.5	31.5	34.8
	Sound Level (SPL)	Cooling	dB(A)	50	50	50
		Heating	dB(A)	50	50	51
	Sound Level (PWL)	Cooling	dB(A)	63	64	64
	Operating Current (Max.)		A	5.5	6.2	9.4
	Breaker Size		A	10	10	12
Ext.Piping	Diameter	Liquid/Gas	mm	6.35/9.52	6.35/9.52	6.35/12.7
	Max.Length	Out-In	m	20	20	20
	Max.Height	Out-In	m	12	12	12
Guaranteed Operating Range (Outdoor)		Cooling	ºC	+15~+46	+15~+46	+15~+46
		Heating	ºC	-10~+24	-10~+24	-10~+24

(*1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO_2 , over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

(*2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

(*3) SHi: Super High.

Indoor Unit					MSZ-HJ60VA	MSZ-HJ71VA
Outdoor Unit					MUZ-HJ60VA	MUZ-HJ71VA
Refrigerant					R410A (*1)	R410A (*1)
Power Supply	Source				Indoor Power supply	Indoor Power supply
	Outdoor(V/Phase/Hz)				230V/SinglePhase/50Hz	230V/SinglePhase/50Hz
Cooling	Capacity	Rated		kW	6.1	7.1
		Min. - Max.		kW	1.7 - 7.1	1.8 - 7.1
	SHF				0.82	0.77
	Total Input	Rated		kW	1.900	2.330
	EER				3.21	3.05
		EEL Rank			A	B
	Design load			kW	6.1	7.1
	Annual electricity consumption (*2)			kWh/a	354	441
	SEER				6.0	5.6
		Energy efficiency class			A+	A+
Heating (Average Season)	Capacity	Rated		kW	6.8	8.1
		Min. - Max.		kW	1.5 - 8.4	1.5 - 8.5
	Total Input	Rated		kW	1.970	2.440
	COP				3.45	3.32
		EEL Rank			B	C
	Design load			kW	4.6(-10ºC)	5.4(-10ºC)
	Declared Capacity	at reference design temperature		kW	4.6(-10ºC)	5.4(-10ºC)
		at bivalent temperature		kW	4.6(-10ºC)	5.4(-10ºC)
		at operation limit temperature		kW	4.6(-10ºC)	5.4(-10ºC)
	Back up heating capacity			kW	0.0(-10ºC)	0.0(-10ºC)
	Annual electricity consumption (*2)			kWh/a	1544	1854
	SCOP				4.1	4.0
		Energy efficiency class			A+	A+
Operating Current (Max.)				A	12.5	12.5
Indoor Unit	Input	Rated		kW	0.055	0.055
	Operating Current (Max.)			A	0.5	0.5
	Dimensions	H x W x D		mm	305 x 923 x 250	305 x 923 x 250
	Weight			kg	13	13
	Air Volume	Cooling		m^3/min.	9.3 - 12.2 - 15.0 - 19.9	10.0 - 12.2 - 15.0 - 19.9
	(Lo-Mid-Hi-SHi (*3) (Dry/Wet))	Heating		m^3/min.	9.4 - 12.5 - 16.0 - 19.9	10.3 - 12.7 - 16.4 - 19.9
	Sound Level (SPL)	Cooling		dB(A)	31 - 38 - 44 - 50	33 - 38 - 44 - 50
	(Lo-Mid-Hi-SHi (*3))	Heating		dB(A)	31 - 38 - 44 - 49	33 - 38 - 44 - 49
	Sound Level (PWL)	Cooling		dB(A)	65	65
Outdoor Unit	Dimensions	H x W x D		mm	880 x 840 x 330	880 x 840 x 330
	Weight			kg	55	55
	Air Volume	Cooling		m^3/min.	47.9	49.3
		Heating		m^3/min.	47.9	47.9
	Sound Level (SPL)	Cooling		dB(A)	55	55
		Heating		dB(A)	55	55
	Sound Level (PWL)	Cooling		dB(A)	65	66
	Operating Current (Max.)			A	12	12
	Breaker Size			A	16	16
Ext.Piping	Diameter	Liquid/Gas		mm	6.35/15.88	9.52/15.88
	Max.Length	Out-In		m	30	30
	Max.Height	Out-In		m	15	15
Guaranteed Operating Range (Outdoor)		Cooling		°C	+15~+46	+15~+46
		Heating		°C	-10~+24	-10~+24

(*1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO_2 , over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

(*2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

(*3) SHi: Super High.

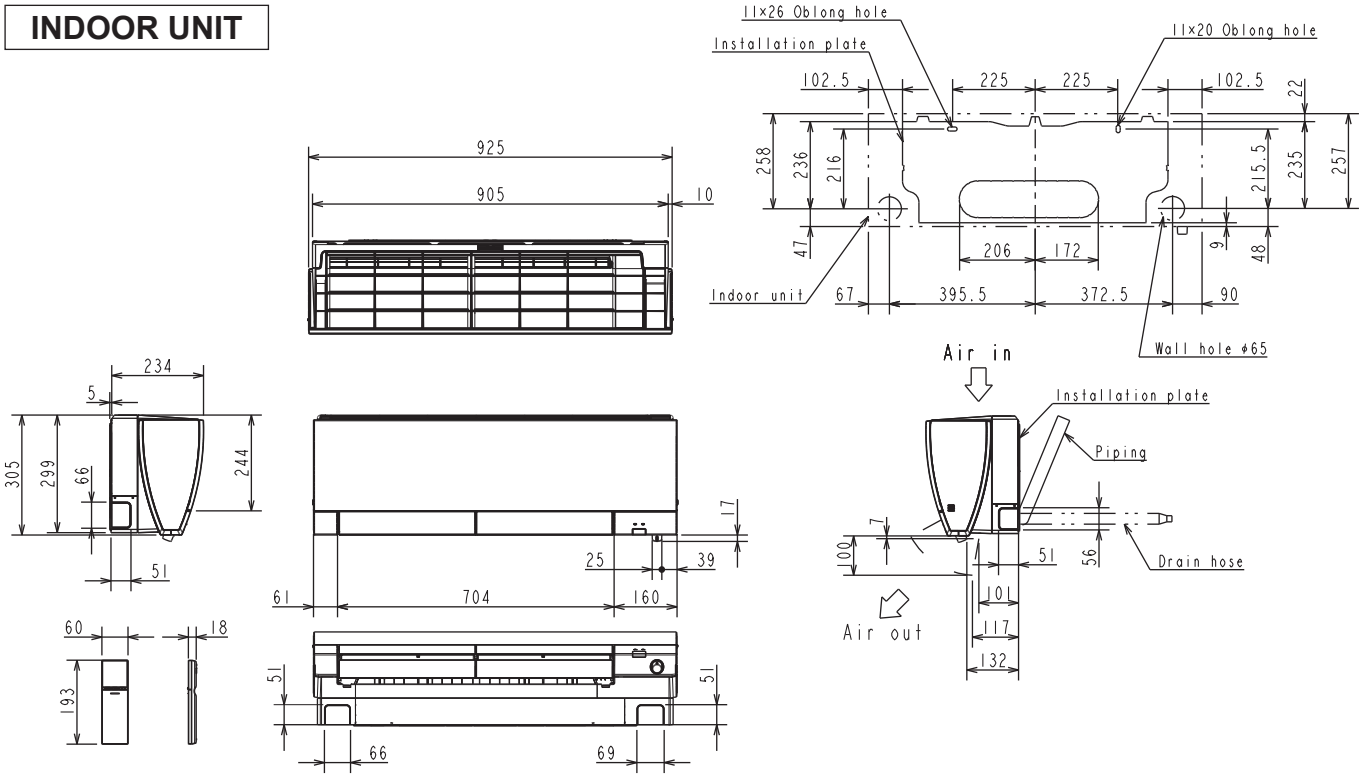
C.1.2 OUTLINES AND DIMENSIONS

C.1.2.1 Indoor Unit

Unit: mm

MSZ-FH25VE2 MSZ-FH35VE2 MSZ-FH50VE2

INDOOR UNIT



MSZ-FH25VE2 MSZ-FH35VE2

Piping	Insulation	ø37 O.D
	Liquid line	ø6.35 - 0.50 m (Flared connection ø6.35)
	Gas line	ø9.52 - 0.43 m (Flared connection ø9.52)
Drain hose		Insulation ø28 O.D Connected part ø16 O.D

MSZ-FH50VE2

Piping	Insulation	ø37 O.D
	Liquid line	ø6.35 - 0.50 m (Flared connection ø6.35)
	Gas line	ø9.52 - 0.43 m (Flared connection ø12.7)
Drain hose		Insulation ø28 O.D Connected part ø16 O.D

Unit: mm

MSZ-EF18VE3W MSZ-EF22VE3W MSZ-EF25VE3W MSZ-EF35VE3W MSZ-EF42VE3W MSZ-EF50VE3W
MSZ-EF18VE3B MSZ-EF22VE3B MSZ-EF25VE3B MSZ-EF35VE3B MSZ-EF42VE3B MSZ-EF50VE3B
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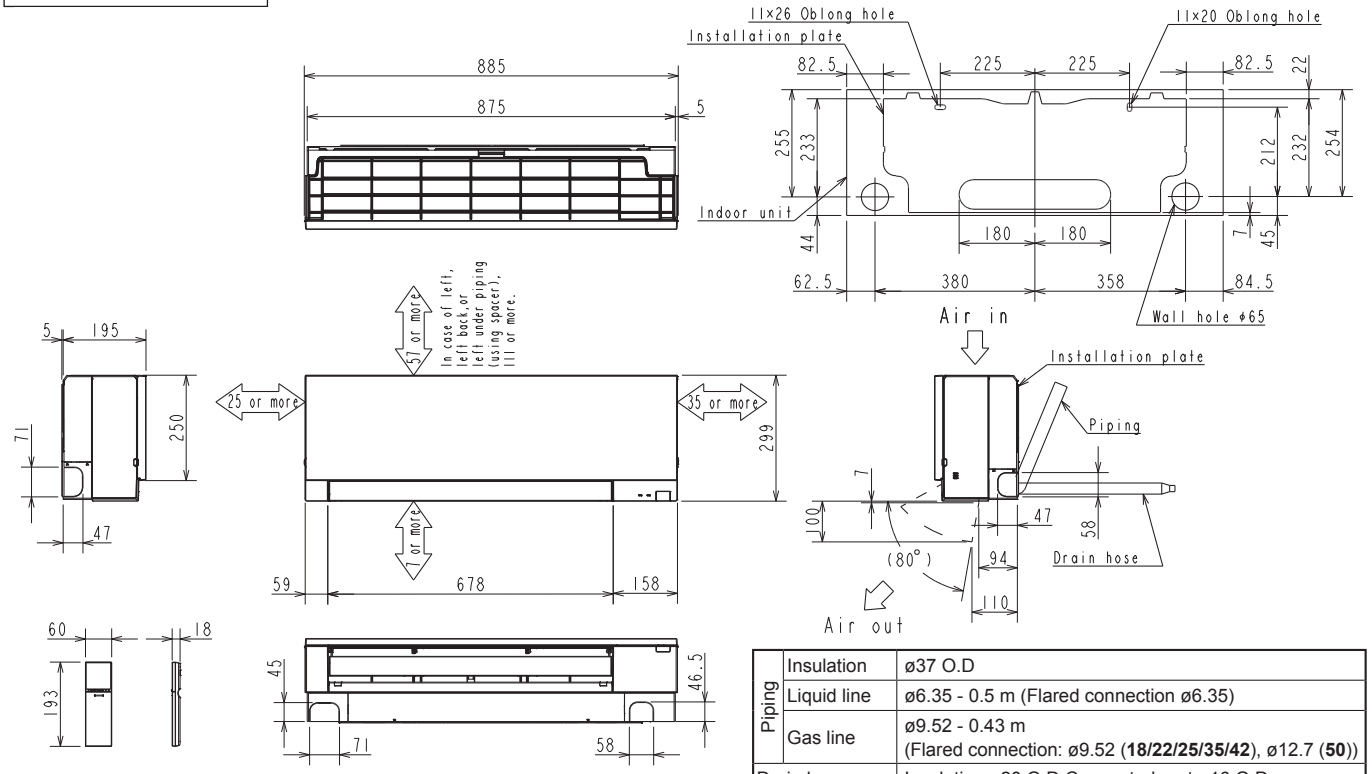
INDOOR UNIT

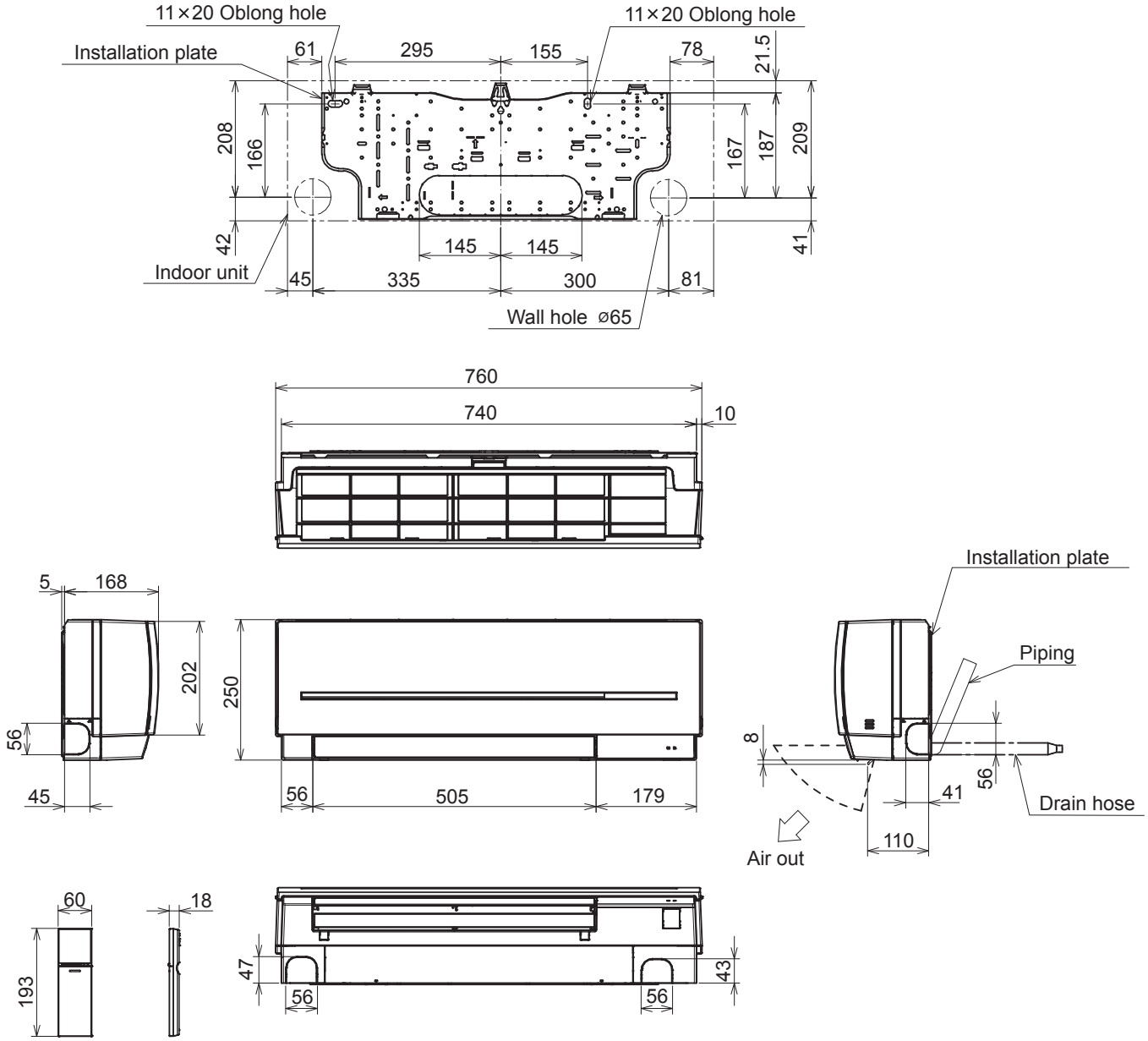


Piping	Insulation	ø37 O.D
	Liquid line	ø6.35 - 0.5 m (Flared connection ø6.35)
	Gas line	ø9.52 - 0.43 m (Flared connection: ø9.52 (**18/22/25/35/42**), ø12.7 (**50**))
Drain hose		Insulation ø28 O.D Connected part ø16 O.D

Unit: mm

MSZ-SF15VA MSZ-SF20VA

INDOOR UNIT

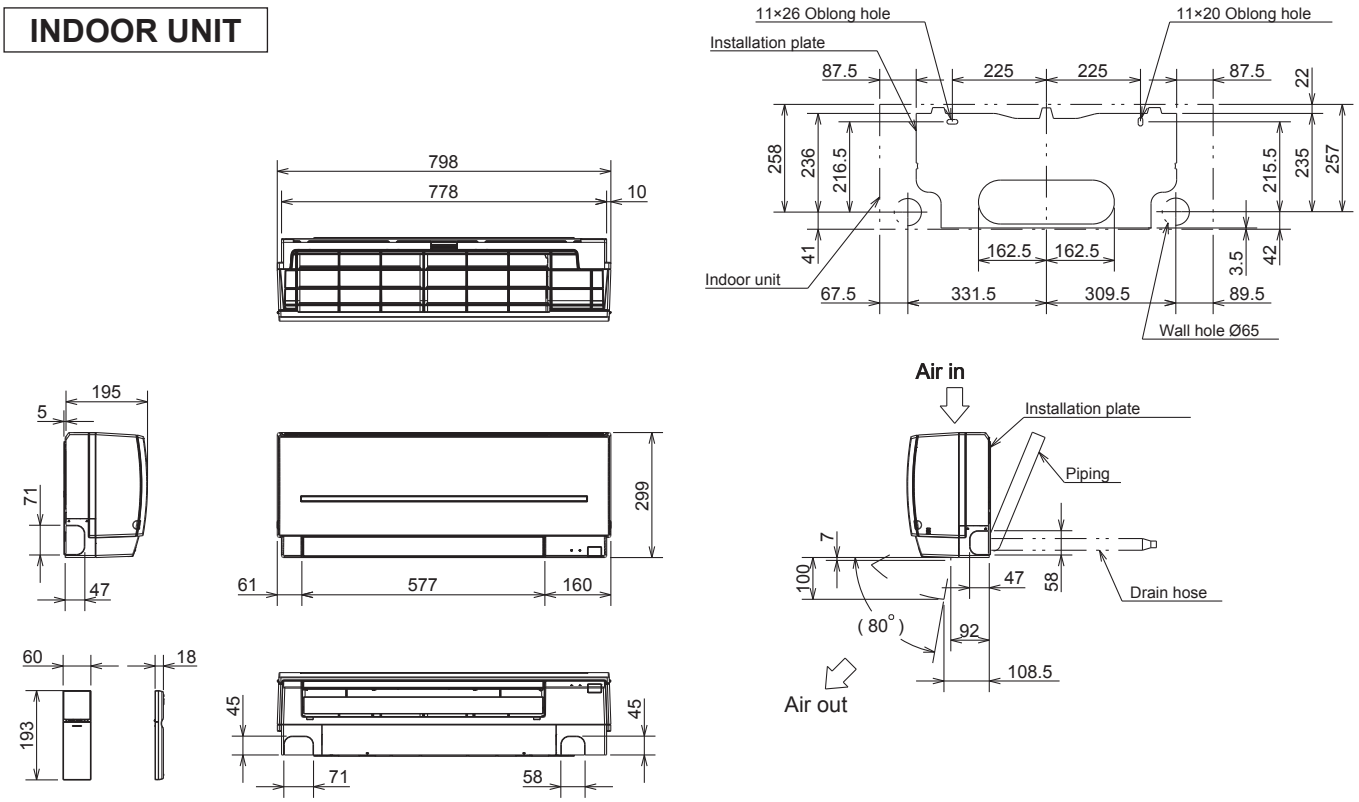


Piping	Insulation	ø35 O.D
	Liquid line	ø6.35-0.39m (Flared connection ø6.35)
	Gas line	ø9.52-0.34m (Flared connection ø9.52)
Drain hose		Insulation ø28 Connected part ø16 O.D

Unit: mm

MSZ-SF25VE3 MSZ-SF35VE3 MSZ-SF42VE3 MSZ-SF50VE3

INDOOR UNIT

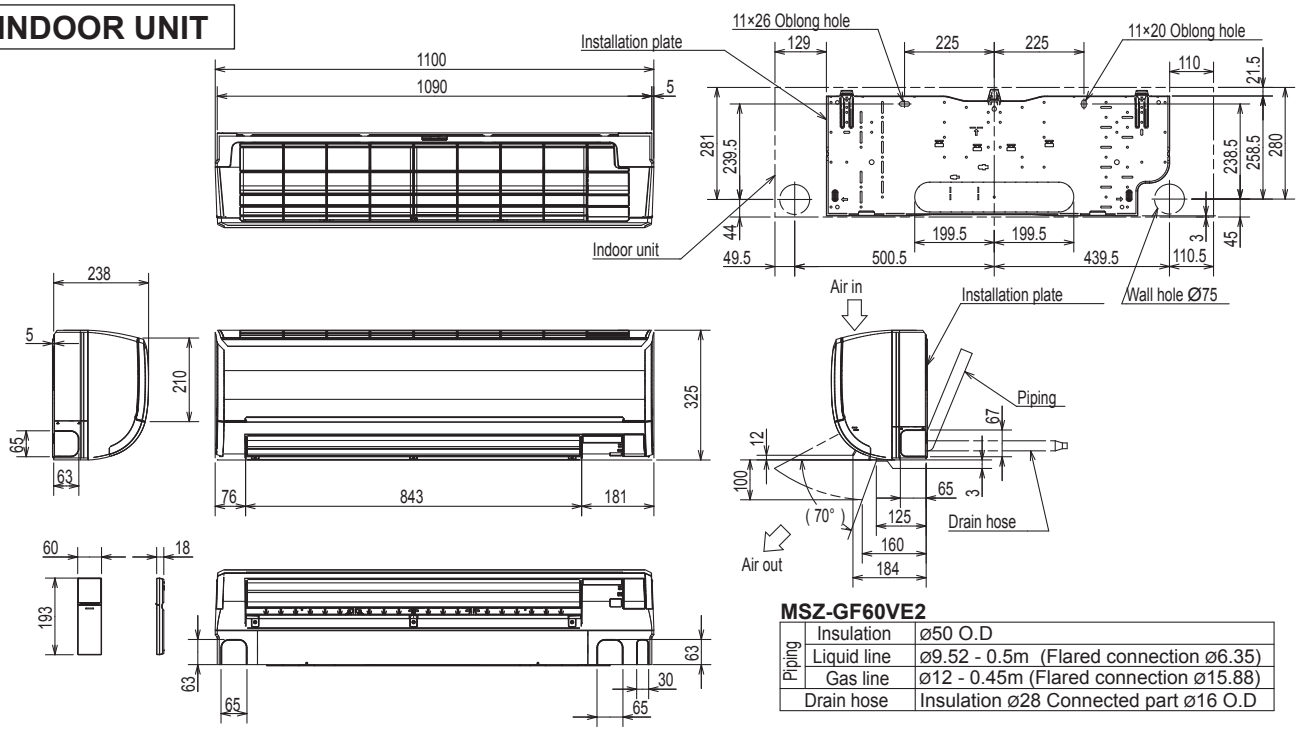


Piping	Insulation	Ø37 O.D
	Liquid line	Ø6.35 - 0.39m (Flared connection Ø6.35)
	Gas line	Ø9.52 - 0.34m [Flared connection Ø9.52 (**MSZ-SF25/35/42VE3**), Ø12.7 (**MSZ-SF50VE3**)]
Drain hose		Insulation Ø28 Connected part Ø16 O.D

Unit: mm

MSZ-GF60VE2 MSZ-GF71VE2

INDOOR UNIT



MSZ-GF60VE2

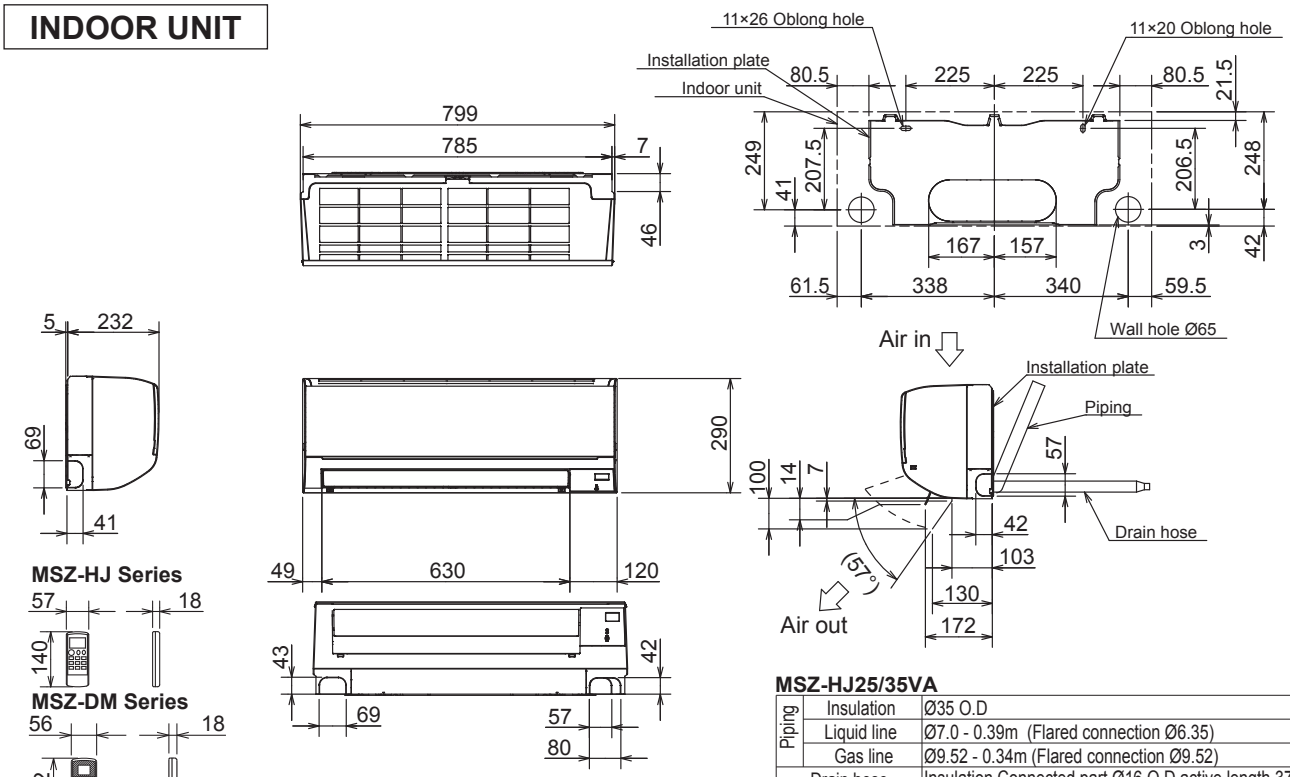
Piping	Insulation	ø50 O.D
	Liquid line	ø9.52 - 0.5m (Flared connection ø6.35)
	Gas line	ø12 - 0.45m (Flared connection ø15.88)
Drain hose		Insulation ø28 Connected part ø16 O.D

MSZ-GF71VE2

Piping	Insulation	ø50 O.D
	Liquid line	ø9.52 - 0.5m (Flared connection ø9.52)
	Gas line	ø12 - 0.45m (Flared connection ø15.88)
Drain hose		Insulation ø28 Connected part ø16 O.D

MSZ-DM25VA MSZ-DM35VA MSZ-HJ25VA MSZ-HJ35VA MSZ-HJ50VA

INDOOR UNIT



MSZ-HJ Series

MSZ-DM Series

MSZ-HJ25/35VA

Piping	Insulation	Ø35 O.D
	Liquid line	Ø7.0 - 0.39m (Flared connection Ø6.35)
	Gas line	Ø9.52 - 0.34m (Flared connection Ø9.52)
Drain hose		Insulation Connected part Ø16 O.D active length 370

MSZ-DM25/35VA

Piping	Insulation	Ø35 O.D
	Liquid line	Ø7.0 - 0.39m (Flared connection Ø6.35)
	Gas line	Ø9.52 - 0.34m (Flared connection Ø9.52)
Drain hose		Insulation Ø28 Connected part Ø16 O.D

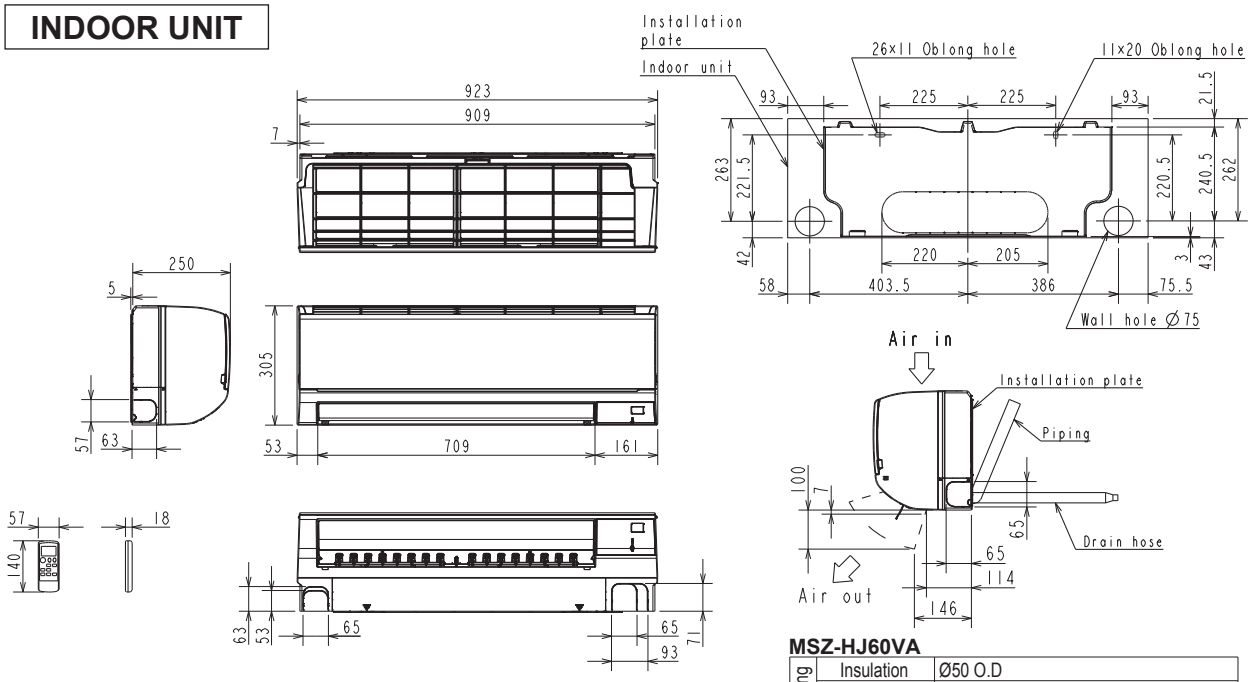
MSZ-HJ50VA

Piping	Insulation	Ø37 O.D
	Liquid line	Ø7.0 - 0.39m (Flared connection Ø6.35)
	Gas line	Ø9.52 - 0.34m (Flared connection Ø12.7)
Drain hose		InsulationØ28 Connected part Ø16 O.D active length 370

Unit: mm

MSZ-HJ60VA MSZ-HJ71VA

INDOOR UNIT



MSZ-HJ60VA

Piping	Insulation	Ø50 O.D
	Liquid line	Ø8 - 0.39m (Flared connection Ø6.35)
	Gas line	Ø12 - 0.34m (Flared connection Ø15.88)
Drain hose		Insulation Connected part Ø16 O.D

MSZ-HJ71VA

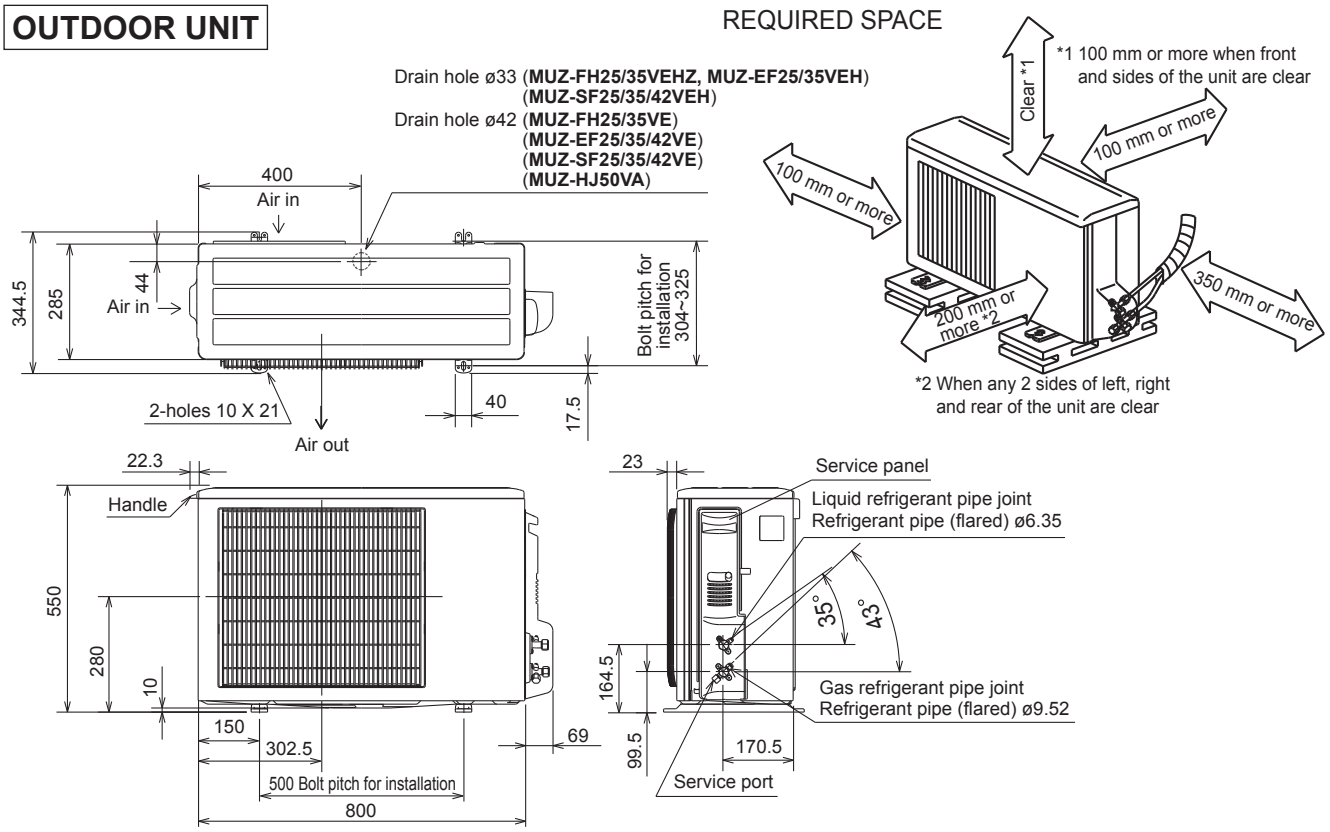
Piping	Insulation	Ø50 O.D
	Liquid line	Ø8 - 0.39m (Flared connection Ø9.52)
	Gas line	Ø12 - 0.34m (Flared connection Ø15.88)
Drain hose		Insulation Connected part Ø16 O.D

C.1.2.2 Outdoor Unit

Unit: mm

MUZ-FH25VE MUZ-FH35VE MUZ-FH25VEHZ MUZ-FH35VEHZ
MUZ-EF25VE MUZ-EF25VEH MUZ-EF35VE MUZ-EF35VEH MUZ-EF42VE
MUZ-SF25VE MUZ-SF25VEH MUZ-SF35VE MUZ-SF35VEH MUZ-SF42VE MUZ-SF42VEH
MUZ-HJ50VA

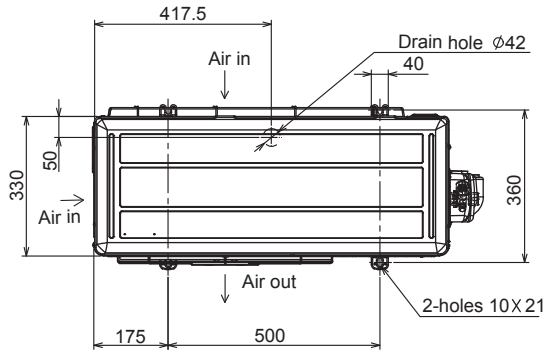
OUTDOOR UNIT

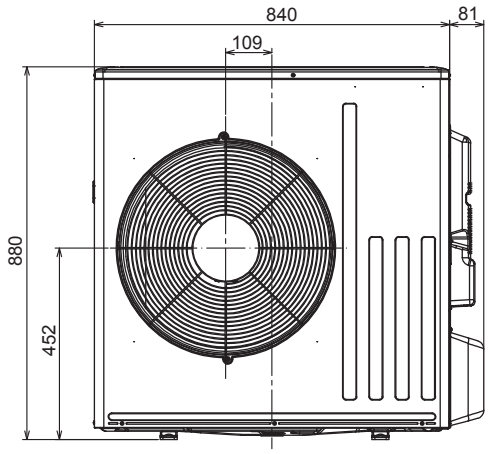


Unit: mm

MUZ-FH50VE MUZ-FH50VEHZ
MUZ-EF50VE
MUZ-SF50VE MUZ-SF50VEH
MUZ-GF60VE MUZ-GF71VE
MUZ-HJ60VA MUZ-HJ71VA

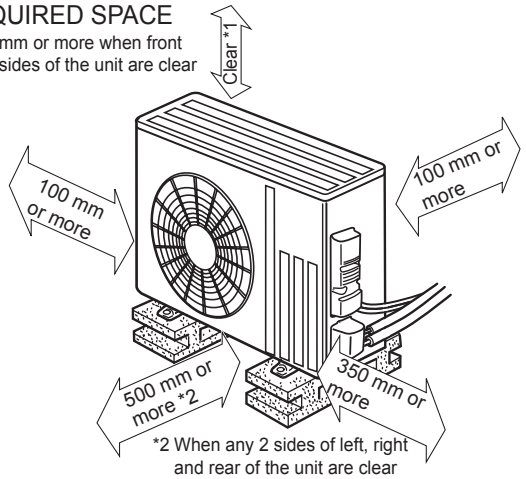
OUTDOOR UNIT



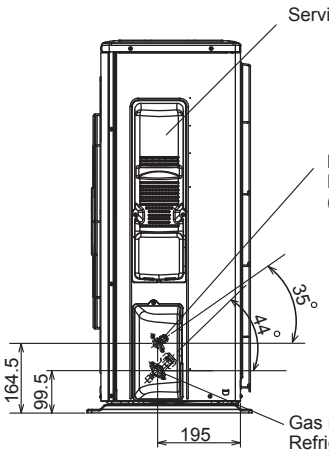


REQUIRED SPACE

*1 500 mm or more when front and sides of the unit are clear



*2 When any 2 sides of left, right and rear of the unit are clear



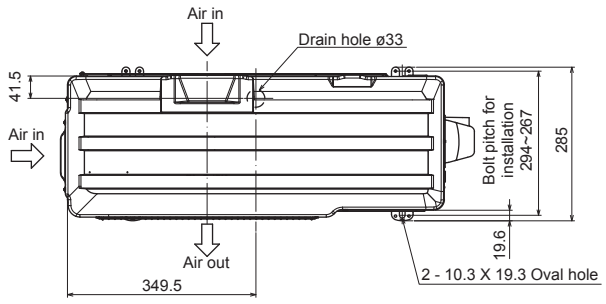
Liquid refrigerant pipe joint
Refrigerant pipe
(flared) Ø 6.35 (**MUZ-FH50VE, FH50VEHZ**)
(**MUZ-EF50VE**)
(**MUZ-SF50VE, SF50VEH**)
(**MUZ-GF60VE**)
(**MUZ-HJ60VA**)
Ø 9.52 (**MUZ-GF71VE**)
(**MUZ-HJ71VA**)

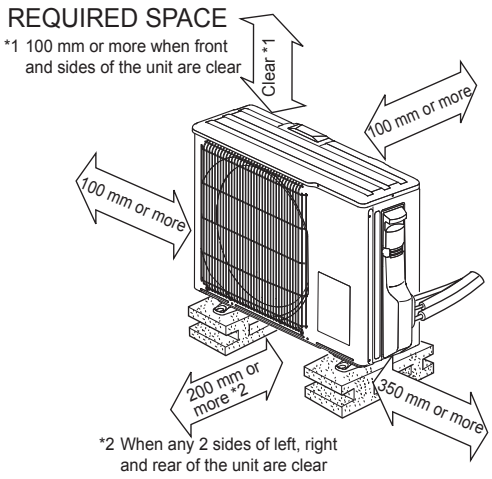
Gas refrigerant pipe joint
Refrigerant pipe
(flared) Ø 12.7 (**MUZ-FH50VE, FH50VEHZ**)
(**MUZ-EF50VE**)
(**MUZ-SF50VE, SF50VEH**)
Ø 15.88 (**MUZ-GF60/71VE**)
(**MUZ-HJ60/71VA**)

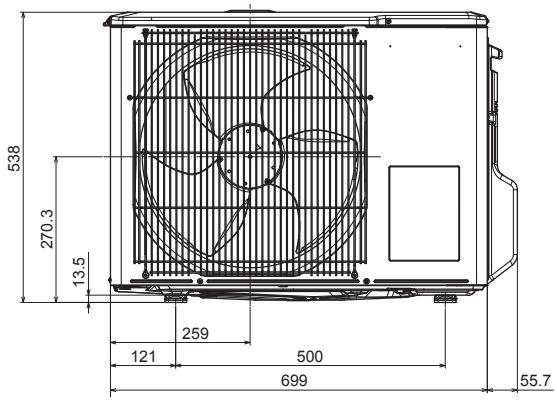
Unit: mm

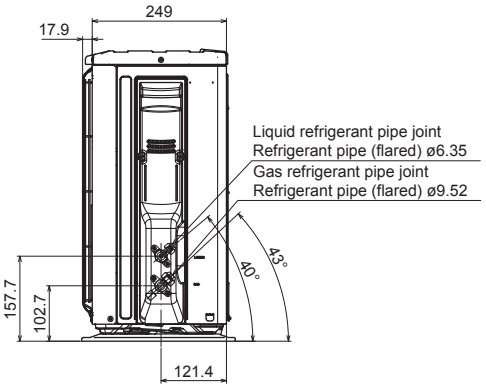
MUZ-DM25VA MUZ-DM35VA
MUZ-HJ25VA MUZ-HJ35VA

OUTDOOR UNIT







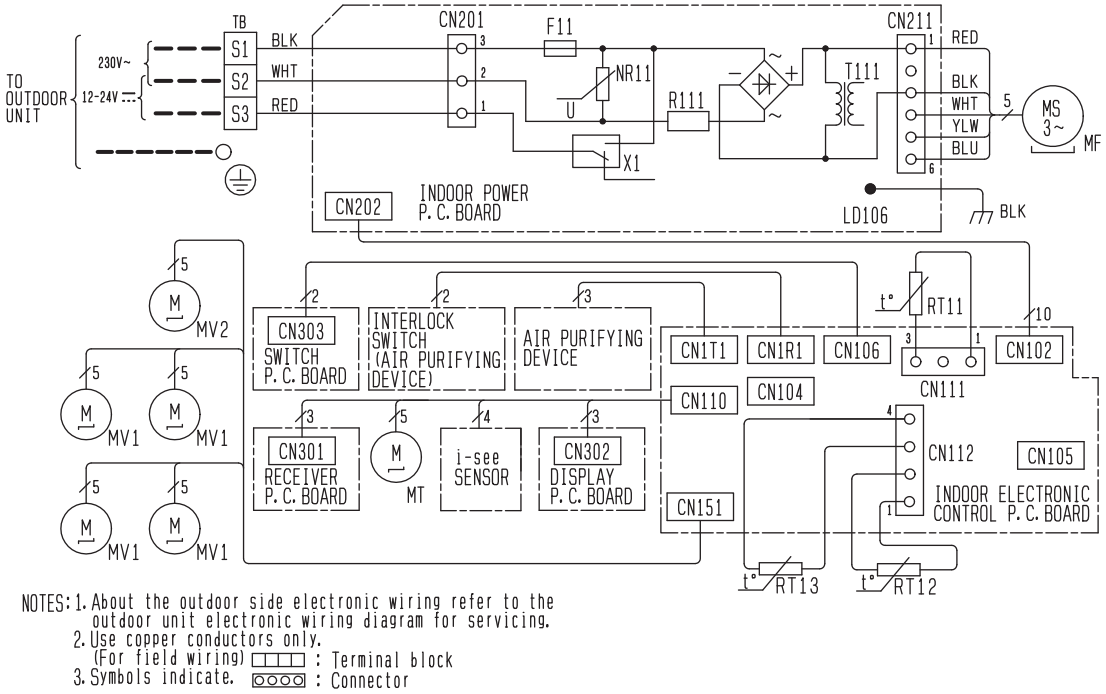


C.1.3 WIRING DIAGRAM

C.1.3.1 Indoor Unit

MSZ-FH25VE2 MSZ-FH35VE2 MSZ-FH50VE2

INDOOR UNIT

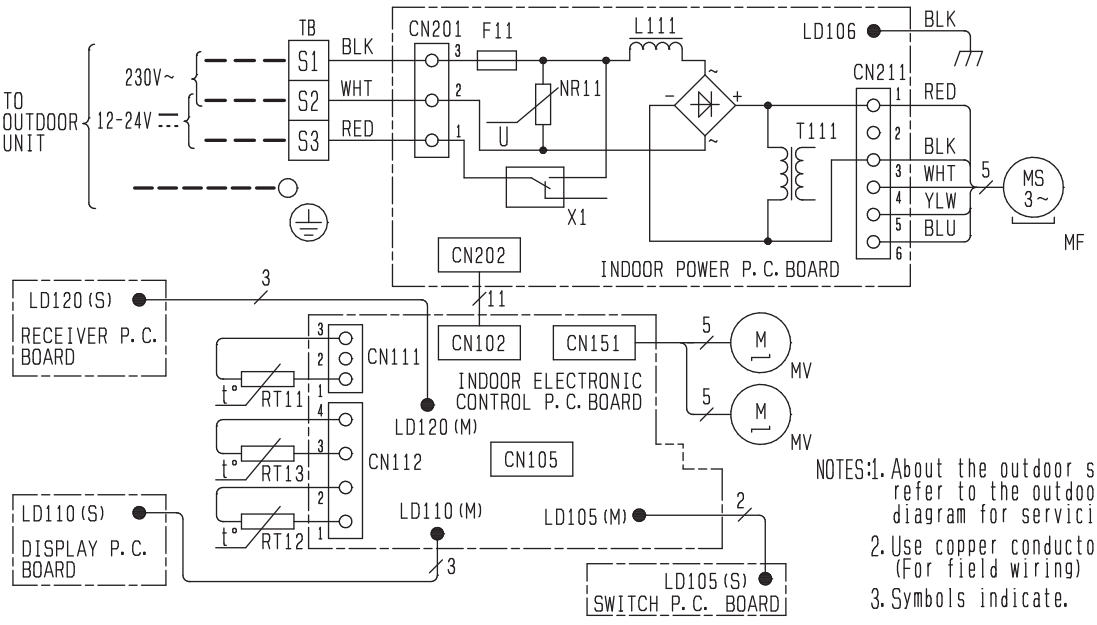


SYMBOL	NAME
F11	FUSE (T3. 15AL250V)
MF	FAN MOTOR
MV1	VANE MOTOR (HORIZONTAL)
MV2	VANE MOTOR (VERTICAL)
MT	i-see SENSOR MOTOR
NR11	VARISTOR
R111	RESISTOR
RT11	ROOM TEMP. THERMISTOR
RT12	COIL TEMP. THERMISTOR (MAIN)
RT13	COIL TEMP. THERMISTOR (SUB)
T111	TRANSFORMER
TB	TERMINAL BLOCK
X1	RELAY

NOTES: 1. About the outdoor side electronic wiring refer to the outdoor unit electronic wiring diagram for servicing.
2. Use copper conductors only.
(For field wiring) ▭▭▭ : Terminal block
3. Symbols indicate. ▭▭▭▭ : Connector

MSZ-EF18VE3W MSZ-EF22VE3W MSZ-EF25VE3W MSZ-EF35VE3W MSZ-EF42VE3W MSZ-EF50VE3W
MSZ-EF18VE3B MSZ-EF22VE3B MSZ-EF25VE3B MSZ-EF35VE3B MSZ-EF42VE3B MSZ-EF50VE3B
MSZ-EF18VE3S MSZ-EF22VE3S MSZ-EF25VE3S MSZ-EF35VE3S MSZ-EF42VE3S MSZ-EF50VE3S

INDOOR UNIT

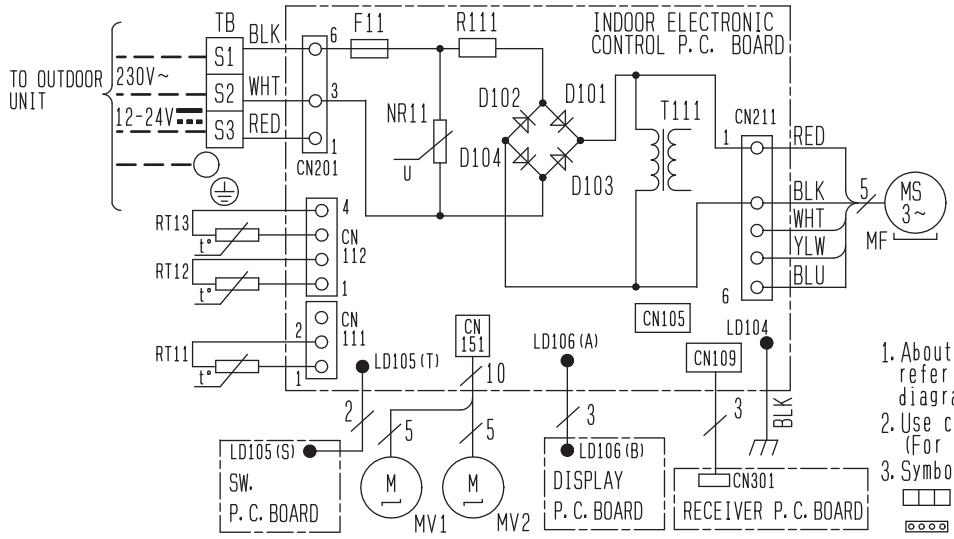


SYMBOL	NAME
F11	FUSE (T3. 15AL250V)
L111	REACTOR
MF	FAN MOTOR
MV	VANE MOTOR (HORIZONTAL)
NR11	VARISTOR
RT11	ROOM TEMP. THERMISTOR
RT12	COIL TEMP. THERMISTOR (MAIN)
RT13	COIL TEMP. THERMISTOR (SUB)
T111	TRANSFORMER
TB	TERMINAL BLOCK
X1	RELAY

NOTES: 1. About the outdoor side electronic wiring refer to the outdoor unit electronic wiring diagram for servicing.
2. Use copper conductors only.
(For field wiring) ▭▭▭ : Terminal block
3. Symbols indicate. ▭▭▭▭ : Connector

MSZ-SF15VA MSZ-SF20VA

INDOOR UNIT

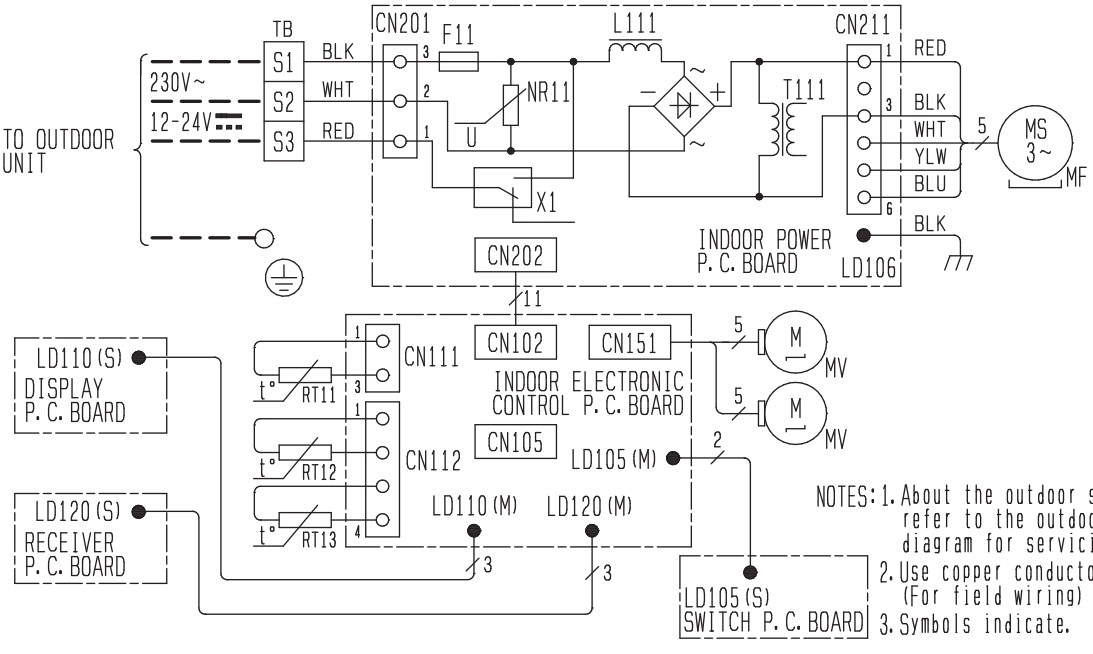


SYMBOL	NAME	SYMBOL	NAME
D101~ D104	DIODE	RT11	ROOM TEMP. THERMISTOR
F11	FUSE (T3.15AL250V)	RT12	COIL TEMP. THERMISTOR (MAIN)
MF	FAN MOTOR	RT13	COIL TEMP. THERMISTOR (SUB)
MV1	VANE MOTOR (HORIZONTAL)	T111	TRANSFORMER
MV2	VANE MOTOR (HORIZONTAL)	TB	TERMINAL BLOCK
NR11	VARISTOR	R111	RESISTOR

1. About the outdoor side electric wiring refer to the outdoor unit electric wiring diagram for servicing.
2. Use copper conductors only. (For field wiring)
3. Symbols below indicate.
   : Terminal block
   : Connector

MSZ-SF25VE3 MSZ-SF42VE3

INDOOR UNIT

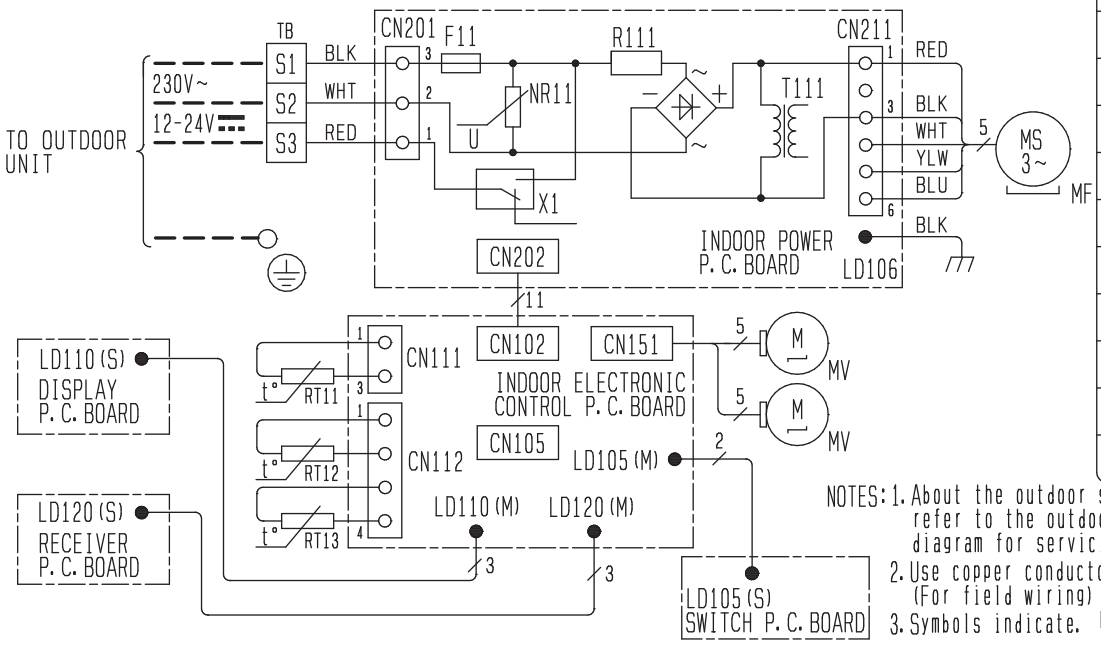


SYMBOL	NAME
F11	FUSE (T3.15AL250V)
L111	REACTOR
MF	FAN MOTOR
MV	VANE MOTOR (HORIZONTAL)
NR11	VARISTOR
RT11	ROOM TEMP. THERMISTOR
RT12	COIL TEMP. THERMISTOR (MAIN)
RT13	COIL TEMP. THERMISTOR (SUB)
T111	TRANSFORMER
TB	TERMINAL BLOCK
X1	RELAY

NOTES: 1. About the outdoor side electronic wiring refer to the outdoor unit electronic wiring diagram for servicing.
2. Use copper conductors only. (For field wiring)
3. Symbols indicate. : Terminal block
   : Connector

MSZ-SF35VE3 MSZ-SF50VE3

INDOOR UNIT

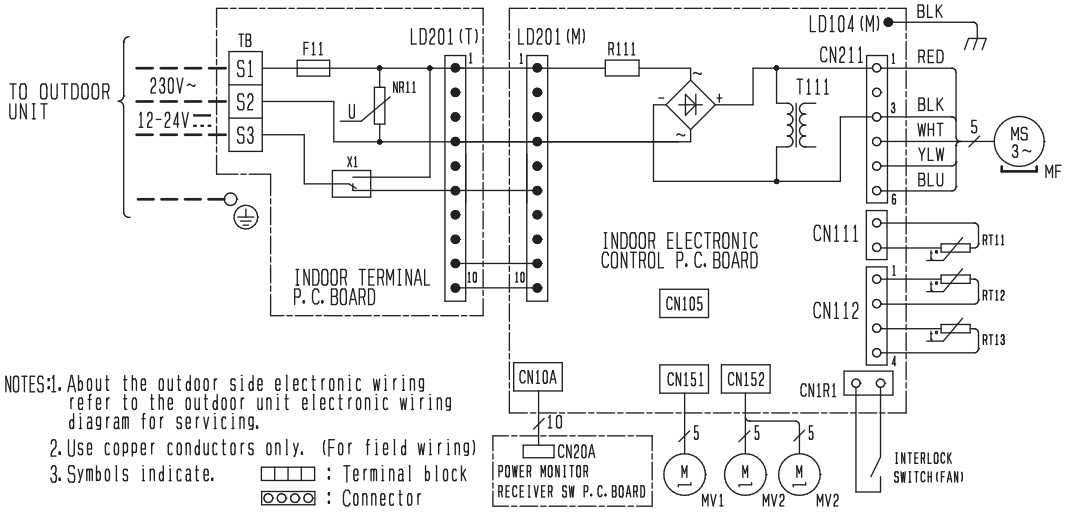


SYMBOL	NAME
F11	FUSE (T3. 15AL250V)
MF	FAN MOTOR
MV	VANE MOTOR (HORIZONTAL)
NR11	VARISTOR
R111	RESISTOR
RT11	ROOM TEMP. THERMISTOR
RT12	COIL TEMP. THERMISTOR (MAIN)
RT13	COIL TEMP. THERMISTOR (SUB)
T111	TRANSFORMER
TB	TERMINAL BLOCK
X1	RELAY

NOTES: 1. About the outdoor side electronic wiring refer to the outdoor unit electronic wiring diagram for servicing.
2. Use copper conductors only. (For field wiring)
3. Symbols indicate. ▭▭▭ : Terminal block ▭▭▭▭ : Connector

MSZ-GF60VE2 MSZ-GF71VE2

INDOOR UNIT

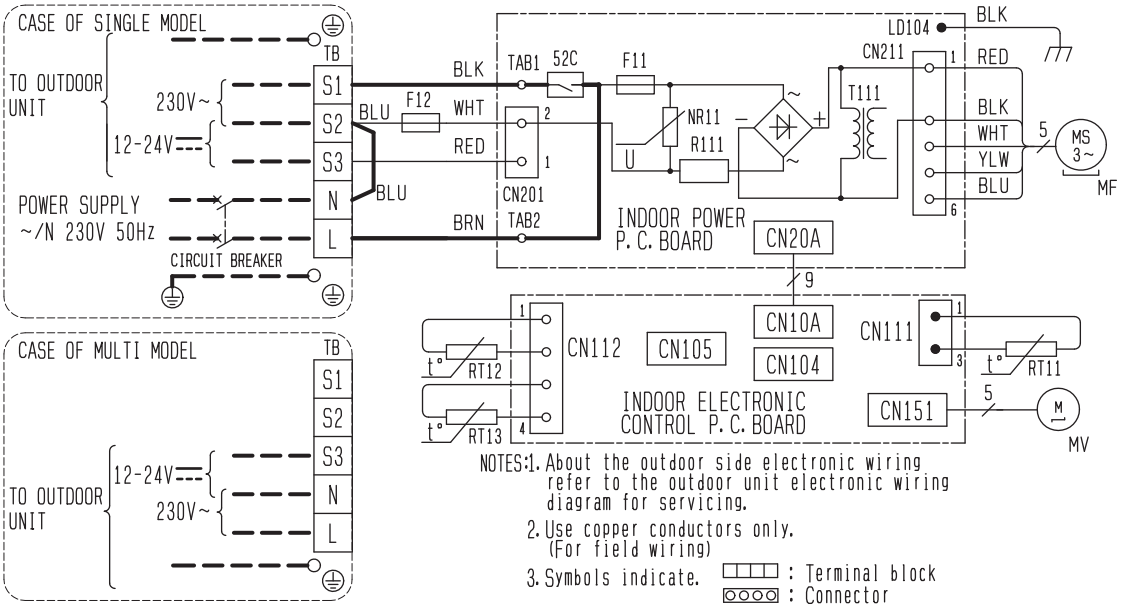


SYMBOL	NAME
F11	FUSE (T3. 15AL250V)
MF	FAN MOTOR
MV1	VANE MOTOR (HORIZONTAL)
MV2	VANE MOTOR (VERTICAL)
NR11	VARISTOR
R111	RESISTOR
RT11	ROOM TEMP. THERMISTOR
RT12	COIL TEMP. THERMISTOR (MAIN)
RT13	COIL TEMP. THERMISTOR (SUB)
T111	TRANSFORMER
TB	TERMINAL BLOCK
X1	RELAY

NOTES: 1. About the outdoor side electronic wiring refer to the outdoor unit electronic wiring diagram for servicing.
2. Use copper conductors only. (For field wiring)
3. Symbols indicate. ▭▭▭ : Terminal block ▭▭▭▭ : Connector

MSZ-DM25VA MSZ-DM35VA

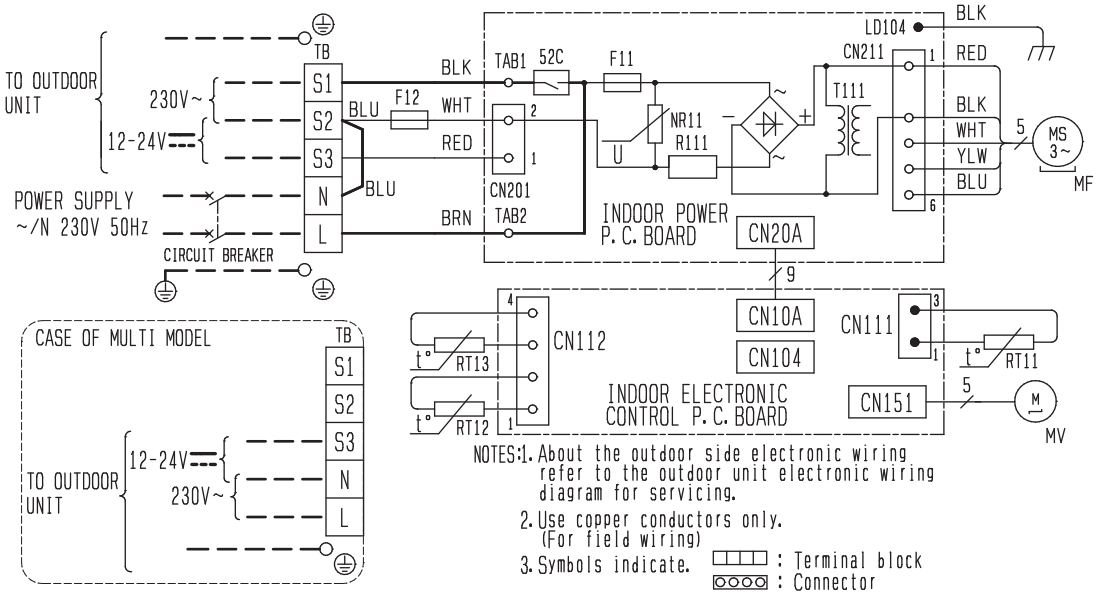
INDOOR UNIT



SYMBOL	NAME
F11	FUSE (T3.15AL250V)
F12	THERMAL FUSE (102℃ 5A)
MF	FAN MOTOR
MV	VANE MOTOR (HORIZONTAL)
NR11	VARISTOR
R111	RESISTOR
RT11	ROOM TEMP. THERMISTOR
RT12	COIL TEMP. THERMISTOR (MAIN)
RT13	COIL TEMP. THERMISTOR (SUB)
T111	TRANSFORMER
TB	TERMINAL BLOCK
52C	CONTACTOR
TAB1, TAB2	TAB

MSZ-HJ25VA MSZ-HJ35VA MSZ-HJ50VA

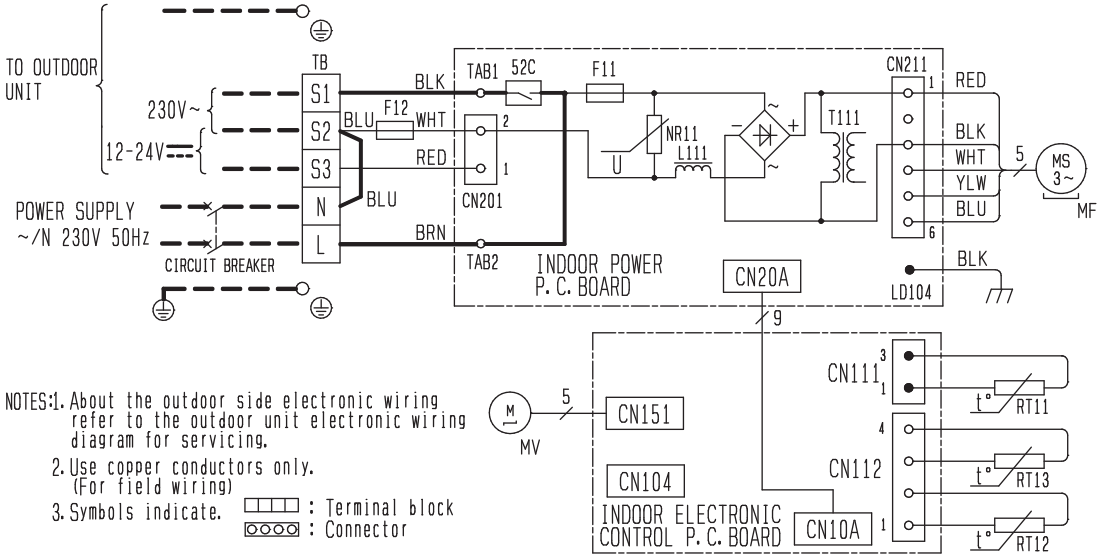
INDOOR UNIT



SYMBOL	NAME
F11	FUSE (T3.15AL250V)
F12	THERMAL FUSE (102℃ 5A)
MF	FAN MOTOR
MV	VANE MOTOR (HORIZONTAL)
NR11	VARISTOR
R111	RESISTOR
RT11	ROOM TEMP. THERMISTOR
RT12	COIL TEMP. THERMISTOR (MAIN)
RT13	COIL TEMP. THERMISTOR (SUB)
T111	TRANSFORMER
TB	TERMINAL BLOCK
52C	CONTACTOR
TAB1, TAB2	TAB

MSZ-HJ60VA MSZ-HJ71VA

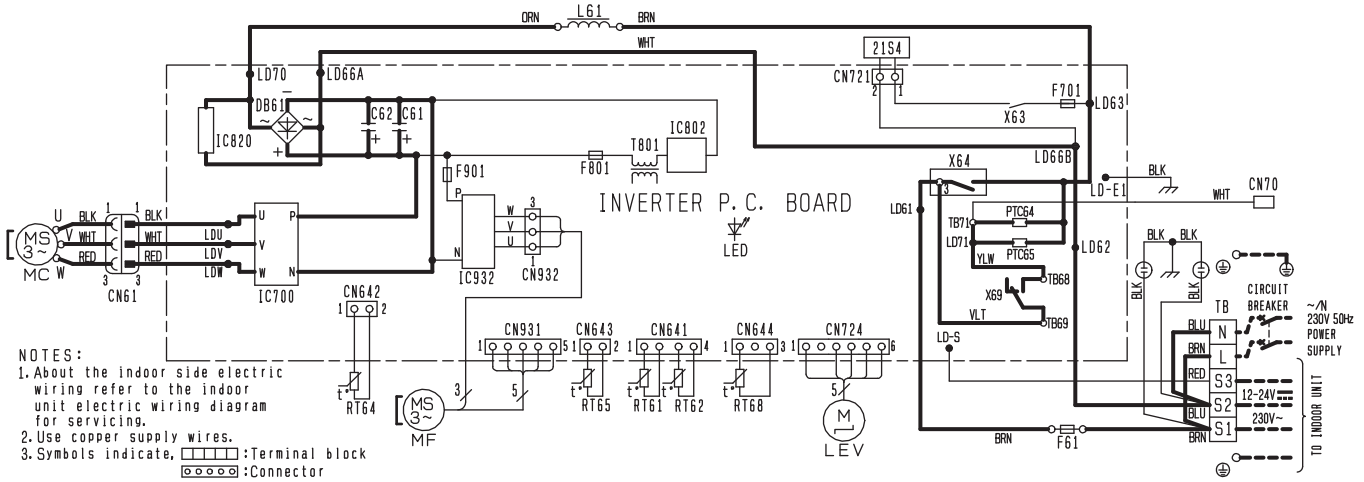
INDOOR UNIT



SYMBOL	NAME
F11	FUSE (T3.15AL250V)
F12	THERMAL FUSE (102℃ 4.5A)
MF	FAN MOTOR
MV	VANE MOTOR (HORIZONTAL)
NR11	VARISTOR
L111	REACTOR
RT11	ROOM TEMP. THERMISTOR
RT12	COIL TEMP. THERMISTOR (MAIN)
RT13	COIL TEMP. THERMISTOR (SUB)
T111	TRANSFORMER
TB	TERMINAL BLOCK
TAB1, TAB2	TAB
52C	CONTACTOR

C.1.3.2 Outdoor Unit
MUZ-FH25VE MUZ-FH35VE

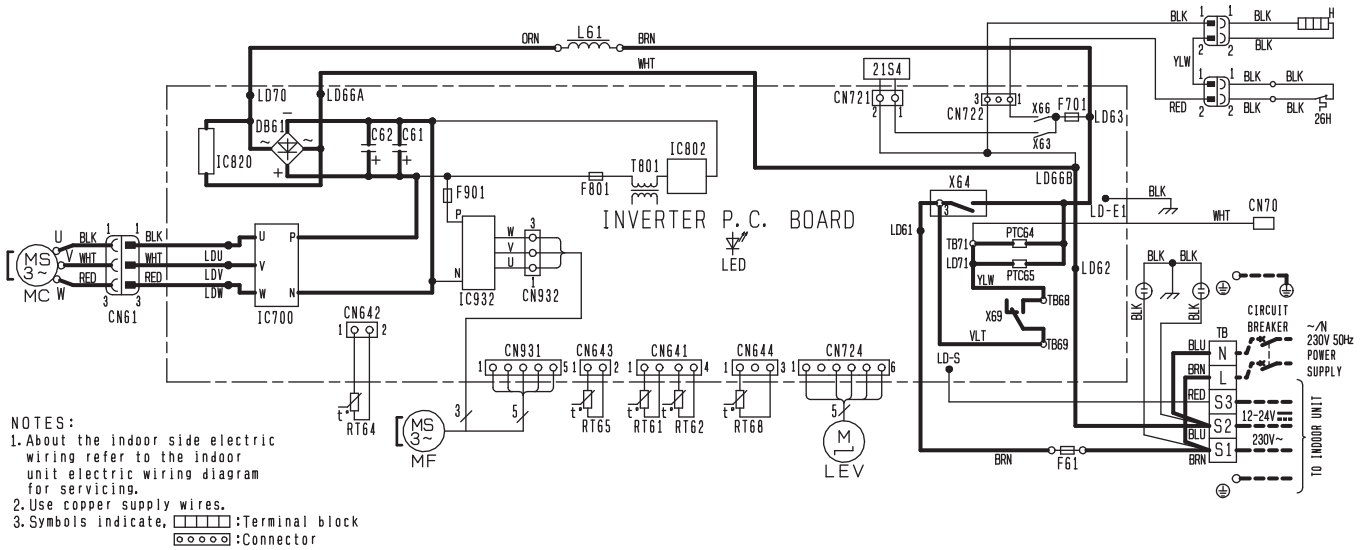
OUTDOOR UNIT



SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
CN70	CONNECTOR	LEV	EXPANSION VALVE COIL	RT65	AMBIENT TEMP. THERMISTOR
C61, C62	SMOOTHING CAPACITOR	L61	REACTOR	RT68	OUTDOOR HEAT EXCHANGER TEMP. THERMISTOR.
DB61	DIODE MODULE	MC	COMPRESSOR		
F61	FUSE (T20AL250V)	MF	FAN MOTOR	TB	TERMINAL BLOCK
F701, F801, F901	FUSE (T3.15AL250V)	PTC64, PTC65	CIRCUIT PROTECTION	T801	TRANSFORMER
IC700, IC820, IC932	POWER MODULE	RT61	DEFROST THERMISTOR	X63, X64, X69	RELAY
IC802	POWER DEVICE	RT62	DISCHARGE TEMP. THERMISTOR	21S4	REVERSING VALVE COIL
LED	LED	RT64	FIN TEMP. THERMISTOR		

MUZ-FH25VEHZ MUZ-FH35VEHZ

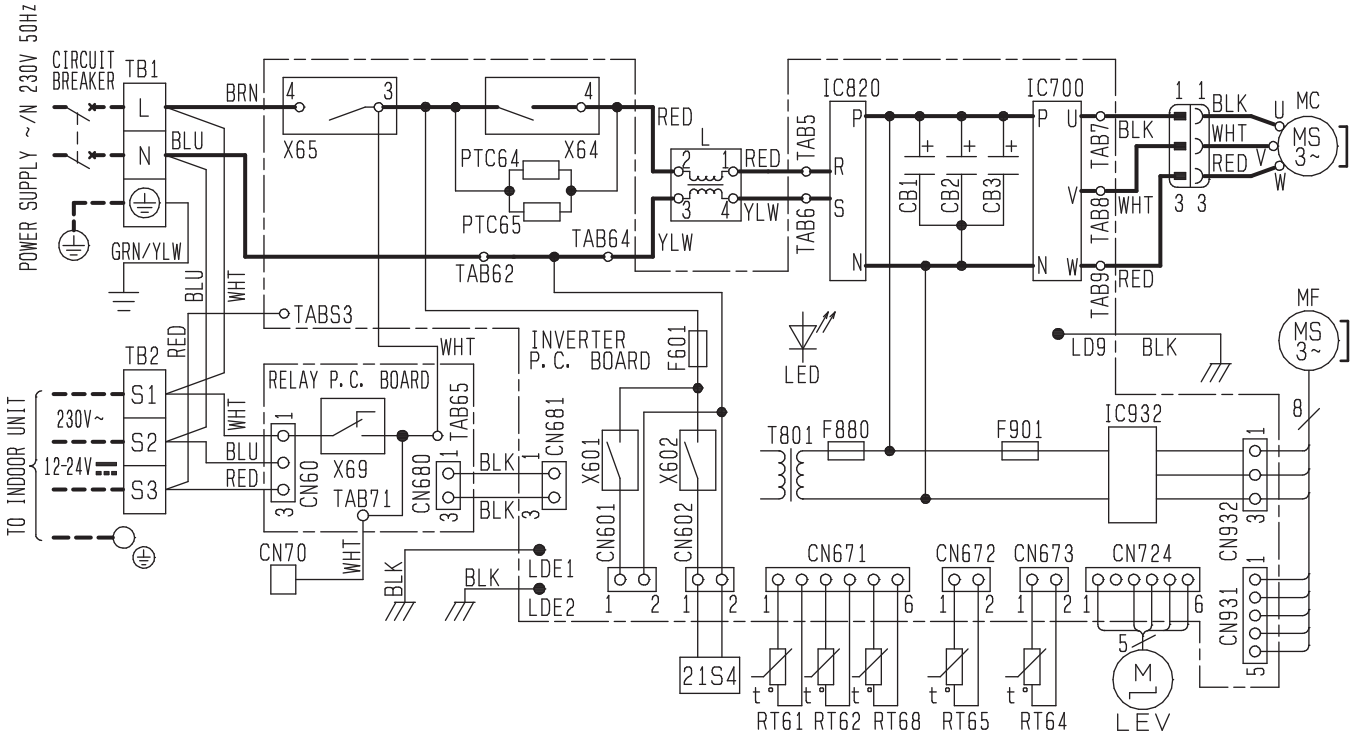
OUTDOOR UNIT



SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
CN70	CONNECTOR	LEV	EXPANSION VALVE COIL	RT68	OUTDOOR HEAT EXCHANGER TEMP. THERMISTOR.
C61, C62	SMOOTHING CAPACITOR	L61	REACTOR		
DB61	DIODE MODULE	MC	COMPRESSOR	TB	TERMINAL BLOCK
F61	FUSE (T20AL250V)	MF	FAN MOTOR	T801	TRANSFORMER
F701, F801, F901	FUSE (T3.15AL250V)	PTC64, PTC65	CIRCUIT PROTECTION	X63, X64	RELAY
H	DEFROST HEATER	RT61	DEFROST THERMISTOR	X66, X69	
IC700, IC820, IC932	POWER MODULE	RT62	DISCHARGE TEMP. THERMISTOR	21S4	REVERSING VALVE COIL
IC802	POWER DEVICE	RT64	FIN TEMP. THERMISTOR	26H	HEATER PROTECTOR
LED	LED	RT65	AMBIENT TEMP. THERMISTOR		

MUZ-FH50VE

OUTDOOR UNIT

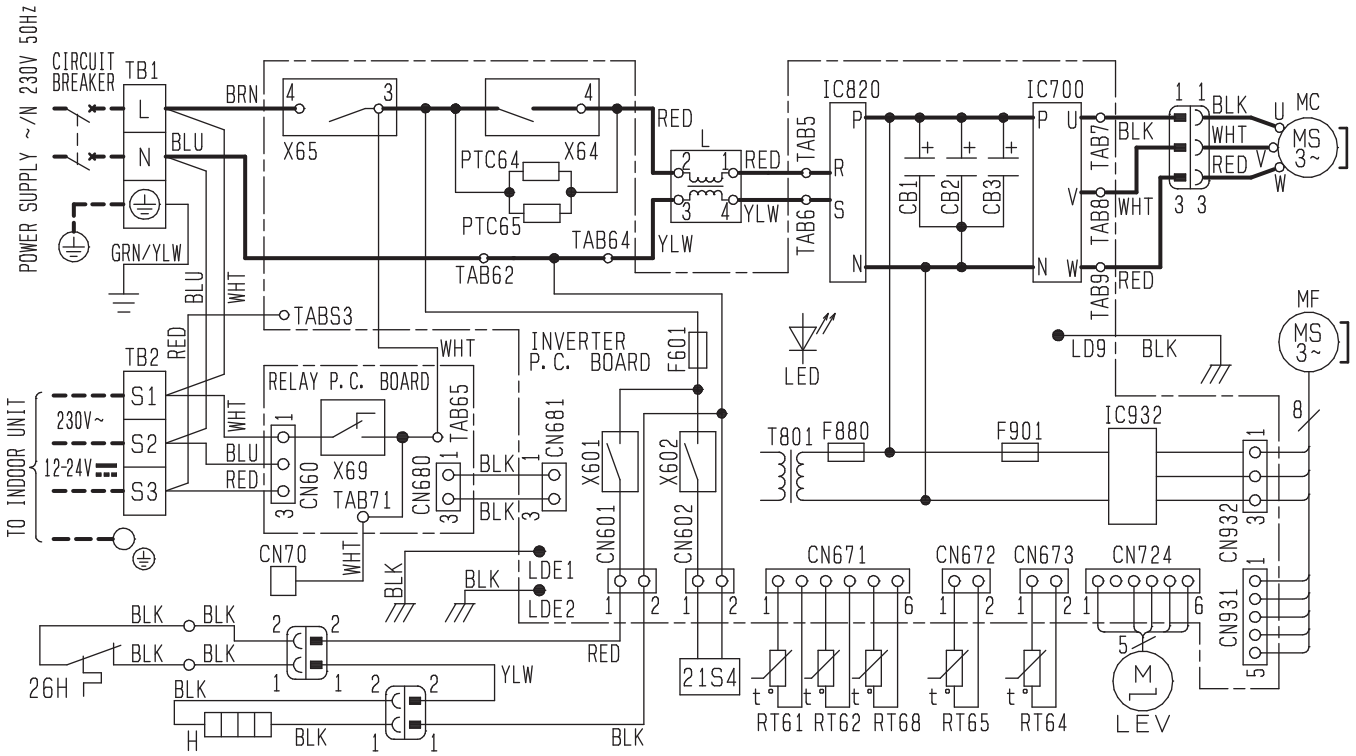


SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
CB1~3	SMOOTHING CAPACITOR	L	REACTOR	RT62	DISCHARGE TEMP. THERMISTOR	X602	RELAY
CN70	CONNECTOR	LED	LED	RT64	FIN TEMP. THERMISTOR	X64	RELAY
F601	FUSE(T3.15AL250V)	LEV	EXPANSION VALVE COIL	RT65	AMBIENT TEMP. THERMISTOR	X65	RELAY
F880	FUSE(T3.15AL250V)	MC	COMPRESSOR	RT68	OUTDOOR HEAT EXCHANGER TEMP. THERMISTOR	X69	RELAY
F901	FUSE(T3.15AL250V)	MF	FAN MOTOR			21S4	REVERSING VALVE COIL
IC700	IGBT Module	PTC64	CIRCUIT PROTECTION	TB1, TB2	TERMINAL BLOCK		
IC820	DIODE Module	PTC65	CIRCUIT PROTECTION	T801	TRANSFORMER		
IC932	IGBT Module	RT61	DEFROST THERMISTOR	X601	RELAY		

NOTES 1. About the indoor side electric wiring, refer to the indoor unit electric wiring diagram for servicing.
2. Use copper conductors only(for field wiring). 3. Symbols indicate, □□□ :Terminal block

MUZ-FH50VEHZ

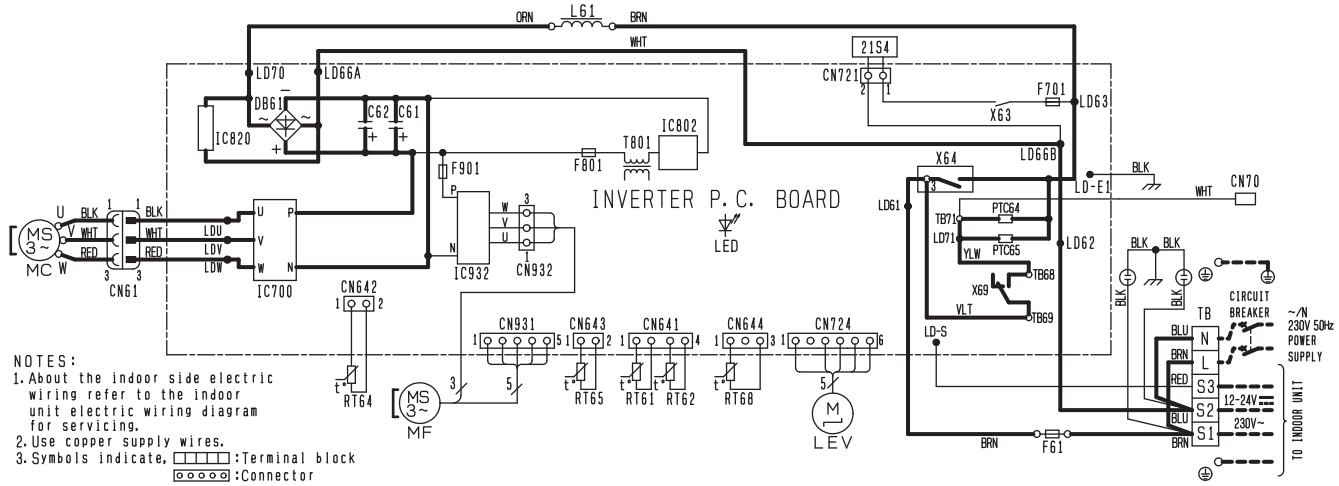
OUTDOOR UNIT



SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
CB1~3	SMOOTHING CAPACITOR	IC932	IGBT Module	RT61	DEFROST THERMISTOR	X601	RELAY
CN70	CONNECTOR	L	REACTOR	RT62	DISCHARGE TEMP. THERMISTOR	X602	RELAY
F601	FUSE(T3.15AL250V)	LED	LED	RT64	FIN TEMP. THERMISTOR	X64	RELAY
F880	FUSE(T3.15AL250V)	LEV	EXPANSION VALVE COIL	RT65	AMBIENT TEMP. THERMISTOR	X65	RELAY
F901	FUSE(T3.15AL250V)	MC	COMPRESSOR	RT68	OUTDOOR HEAT EXCHANGER TEMP. THERMISTOR	X69	RELAY
H	DEFROST HEATER	MF	FAN MOTOR			21S4	REVERSING VALVE COIL
IC700	IGBT Module	PTC64	CIRCUIT PROTECTION	TB1, TB2	TERMINAL BLOCK	26H	HEATER PROTECTOR
IC820	DIODE Module	PTC65	CIRCUIT PROTECTION	T801	TRANSFORMER		

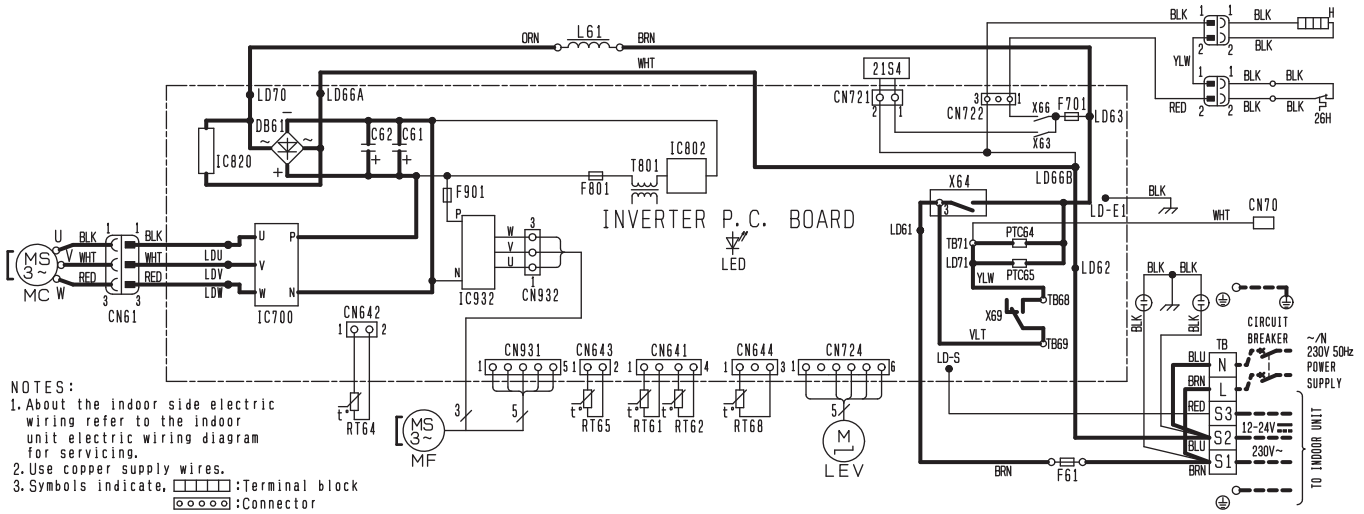
NOTES 1. About the indoor side electric wiring, refer to the indoor unit electric wiring diagram for servicing.
2. Use copper conductors only(for field wiring). 3. Symbols indicate, □□□ :Terminal block

MUZ-EF25VE MUZ-EF35VE
OUTDOOR UNIT



SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
CN70	CONNECTOR	LEV	EXPANSION VALVE COIL	RT65	AMBIENT TEMP. THERMISTOR
C61, C62	SMOOTHING CAPACITOR	L61	REACTOR	RT68	OUTDOOR HEAT EXCHANGER TEMP. THERMISTOR.
DB61	DIODE MODULE	MC	COMPRESSOR		
F61	FUSE (T20AL250V)	MF	FAN MOTOR	TB	TERMINAL BLOCK
F701, F801, F901	FUSE (T3.15AL250V)	PTC64, PTC65	CIRCUIT PROTECTION	T801	TRANSFORMER
IC700, IC820, IC932	POWER MODULE	RT61	DEFROST THERMISTOR	X63, X64, X69	RELAY
IC802	POWER DEVICE	RT62	DISCHARGE TEMP. THERMISTOR	21S4	REVERSING VALVE COIL
LED	LED	RT64	FIN TEMP. THERMISTOR		

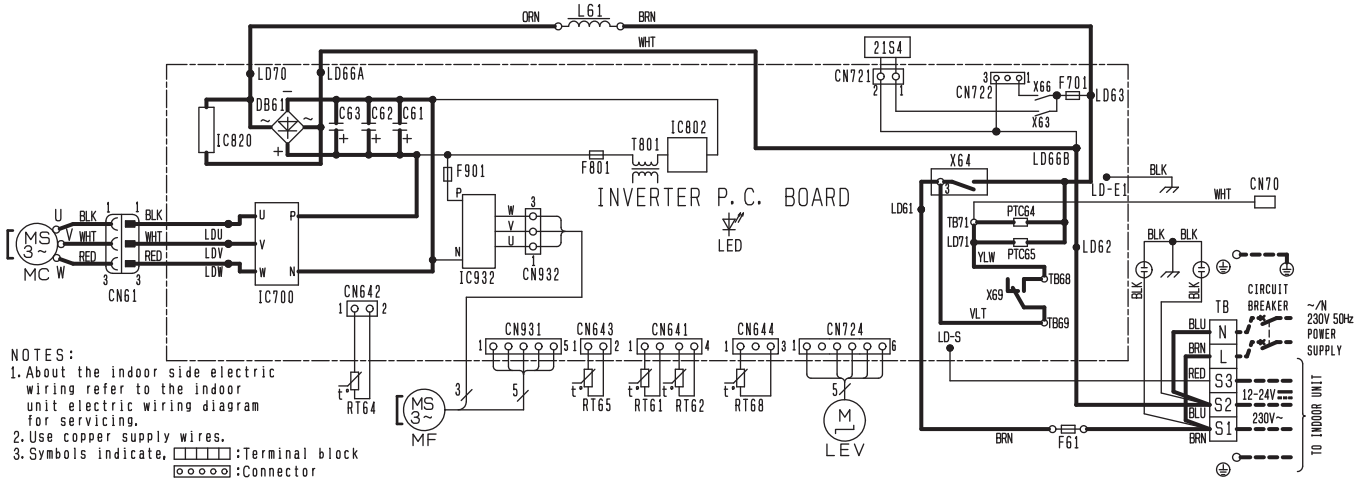
MUZ-EF25VEH MUZ-EF35VEH
OUTDOOR UNIT



SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
CN70	CONNECTOR	LEV	EXPANSION VALVE COIL	RT68	OUTDOOR HEAT EXCHANGER TEMP. THERMISTOR.
C61, C62	SMOOTHING CAPACITOR	L61	REACTOR		
DB61	DIODE MODULE	MC	COMPRESSOR	TB	TERMINAL BLOCK
F61	FUSE (T20AL250V)	MF	FAN MOTOR	T801	TRANSFORMER
F701, F801, F901	FUSE (T3.15AL250V)	PTC64, PTC65	CIRCUIT PROTECTION	X63, X64 X66, X69	RELAY
H	DEFROST HEATER	RT61	DEFROST THERMISTOR		
IC700, IC820, IC932	POWER MODULE	RT62	DISCHARGE TEMP. THERMISTOR	21S4	REVERSING VALVE COIL
IC802	POWER DEVICE	RT64	FIN TEMP. THERMISTOR	26H	HEATER PROTECTOR
LED	LED	RT65	AMBIENT TEMP. THERMISTOR		

MUZ-EF42VE MUZ-EF50VE

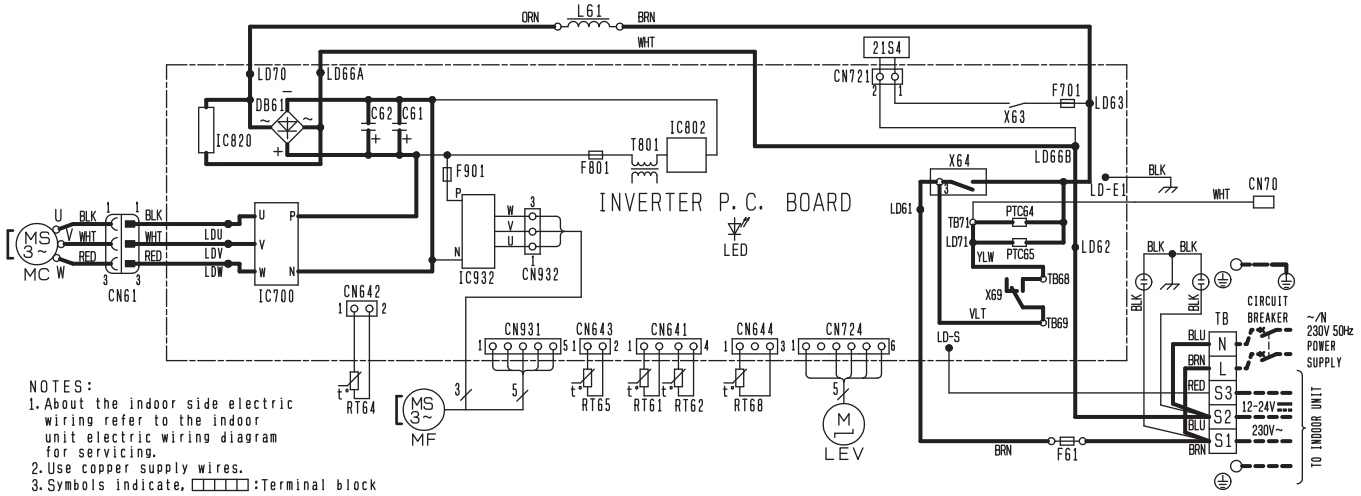
OUTDOOR UNIT



SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
CN70	CONNECTOR	LEV	EXPANSION VALVE COIL	RT65	AMBIENT TEMP. THERMISTOR
C61, C62, C63	SMOOTHING CAPACITOR	L61	REACTOR	RT68	OUTDOOR HEAT EXCHANGER TEMP. THERMISTOR.
DB61	DIODE MODULE	MC	COMPRESSOR		
F61	FUSE (T20AL250V)	MF	FAN MOTOR	TB	TERMINAL BLOCK
F701, F801, F901	FUSE (T3.15AL250V)	PTC64, PTC65	CIRCUIT PROTECTION	T801	TRANSFORMER
IC700, IC820, IC932	POWER MODULE	RT61	DEFROST THERMISTOR	X63, X64 X66, X69	RELAY
IC802	POWER DEVICE	RT62	DISCHARGE TEMP. THERMISTOR		
LED	LED	RT64	FIN TEMP. THERMISTOR	21S4	REVERSING VALVE COIL

MUZ-SF25VE MUZ-SF35VE

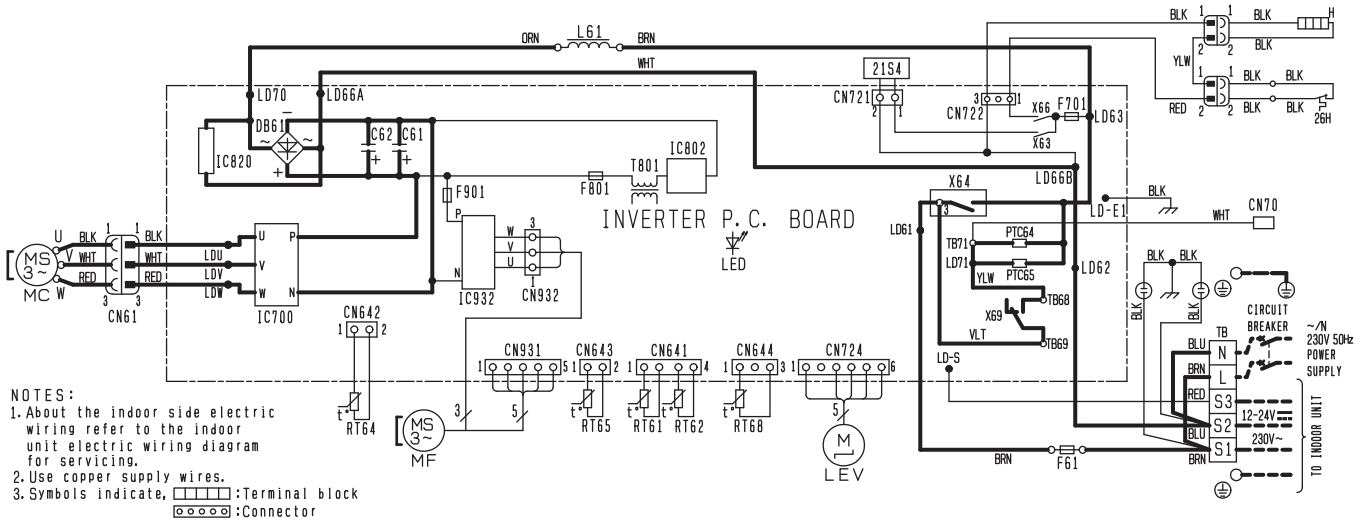
OUTDOOR UNIT



SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
CN70	CONNECTOR	LEV	EXPANSION VALVE COIL	RT65	AMBIENT TEMP. THERMISTOR
C61, C62	SMOOTHING CAPACITOR	L61	REACTOR	RT68	OUTDOOR HEAT EXCHANGER TEMP. THERMISTOR.
DB61	DIODE MODULE	MC	COMPRESSOR		
F61	FUSE (T20AL250V)	MF	FAN MOTOR	TB	TERMINAL BLOCK
F701, F801, F901	FUSE (T3.15AL250V)	PTC64, PTC65	CIRCUIT PROTECTION	T801	TRANSFORMER
IC700, IC820, IC932	POWER MODULE	RT61	DEFROST THERMISTOR	X63, X64, X69	RELAY
IC802	POWER DEVICE	RT62	DISCHARGE TEMP. THERMISTOR	21S4	REVERSING VALVE COIL
LED	LED	RT64	FIN TEMP. THERMISTOR		

MUZ-SF25VEH MUZ-SF35VEH

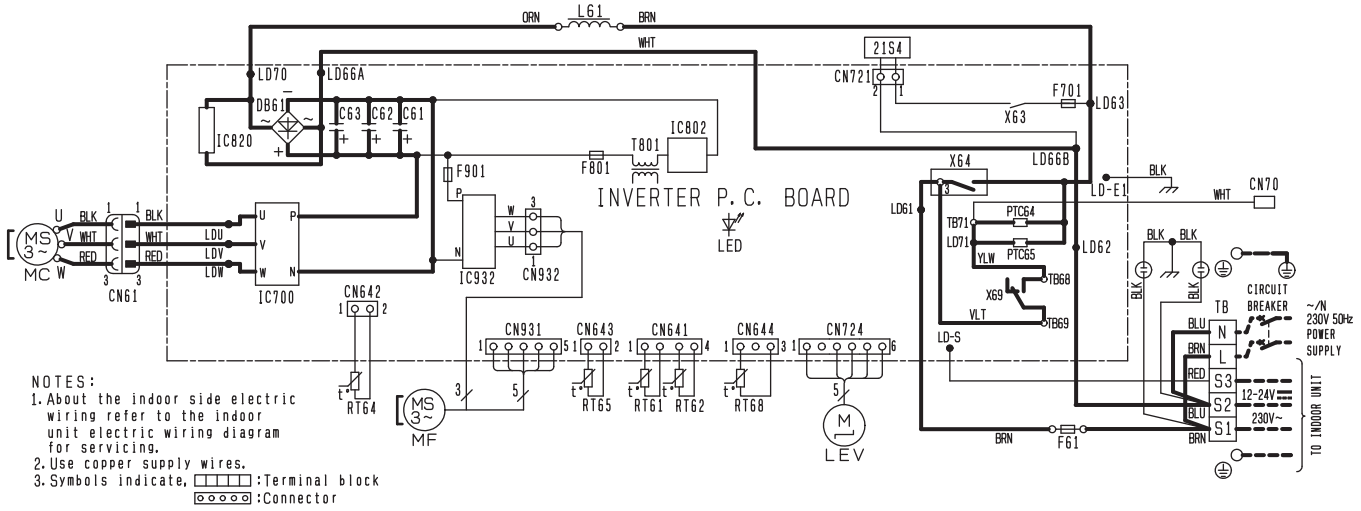
OUTDOOR UNIT



SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
CN70	CONNECTOR	LEV	EXPANSION VALVE COIL	RT68	OUTDOOR HEAT EXCHANGER TEMP. THERMISTOR.
C61, C62	SMOOTHING CAPACITOR	L61	REACTOR		
DB61	DIODE MODULE	MC	COMPRESSOR	TB	TERMINAL BLOCK
F61	FUSE (T20AL250V)	MF	FAN MOTOR	T801	TRANSFORMER
F701, F801, F901	FUSE (T3.15AL250V)	PTC64, PTC65	CIRCUIT PROTECTION	X63, X64	RELAY
H	DEFROST HEATER	RT61	DEFROST THERMISTOR	X66, X69	
IC700, IC820, IC932	POWER MODULE	RT62	DISCHARGE TEMP. THERMISTOR	21S4	REVERSING VALVE COIL
IC802	POWER DEVICE	RT64	FIN TEMP. THERMISTOR	26H	HEATER PROTECTOR
LED	LED	RT65	AMBIENT TEMP. THERMISTOR		

MUZ-SF42VE MUZ-SF50VE

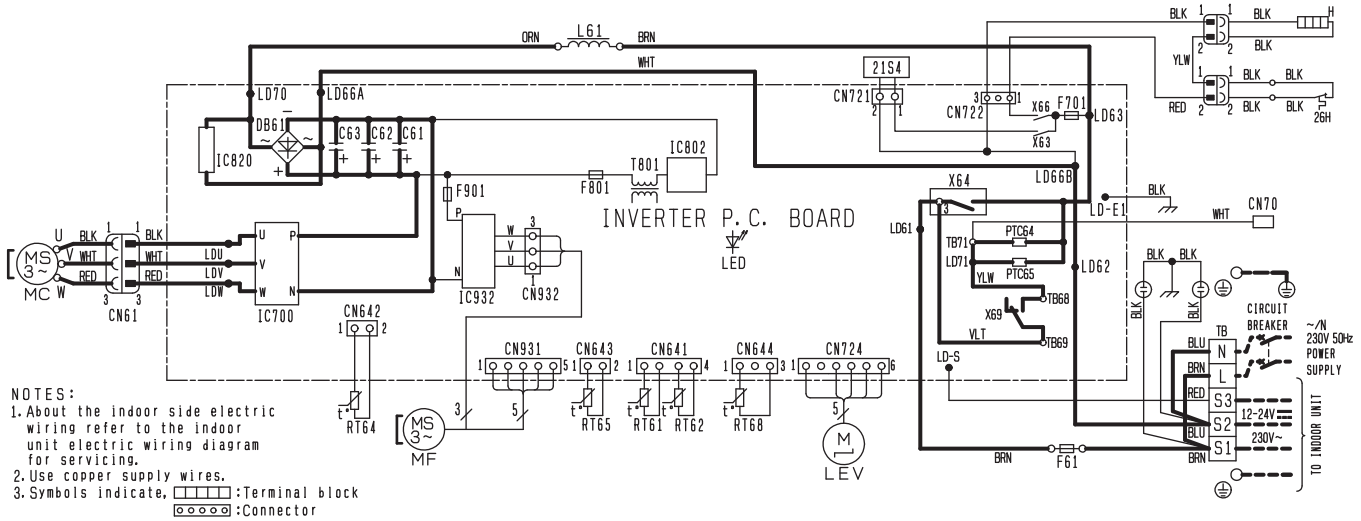
OUTDOOR UNIT



SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
CN70	CONNECTOR	LEV	EXPANSION VALVE COIL	RT65	AMBIENT TEMP. THERMISTOR
C61, C62, C63	SMOOTHING CAPACITOR	L61	REACTOR	RT68	OUTDOOR HEAT EXCHANGER TEMP. THERMISTOR.
DB61	DIODE MODULE	MC	COMPRESSOR		
F61	FUSE (T20AL250V)	MF	FAN MOTOR	TB	TERMINAL BLOCK
F701, F801, F901	FUSE (T3.15AL250V)	PTC64, PTC65	CIRCUIT PROTECTION	T801	TRANSFORMER
IC700, IC820, IC932	POWER MODULE	RT61	DEFROST THERMISTOR	X63, X64, X69	RELAY
IC802	POWER DEVICE	RT62	DISCHARGE TEMP. THERMISTOR	21S4	REVERSING VALVE COIL
LED	LED	RT64	FIN TEMP. THERMISTOR		

MUZ-SF42VEH MUZ-SF50VEH

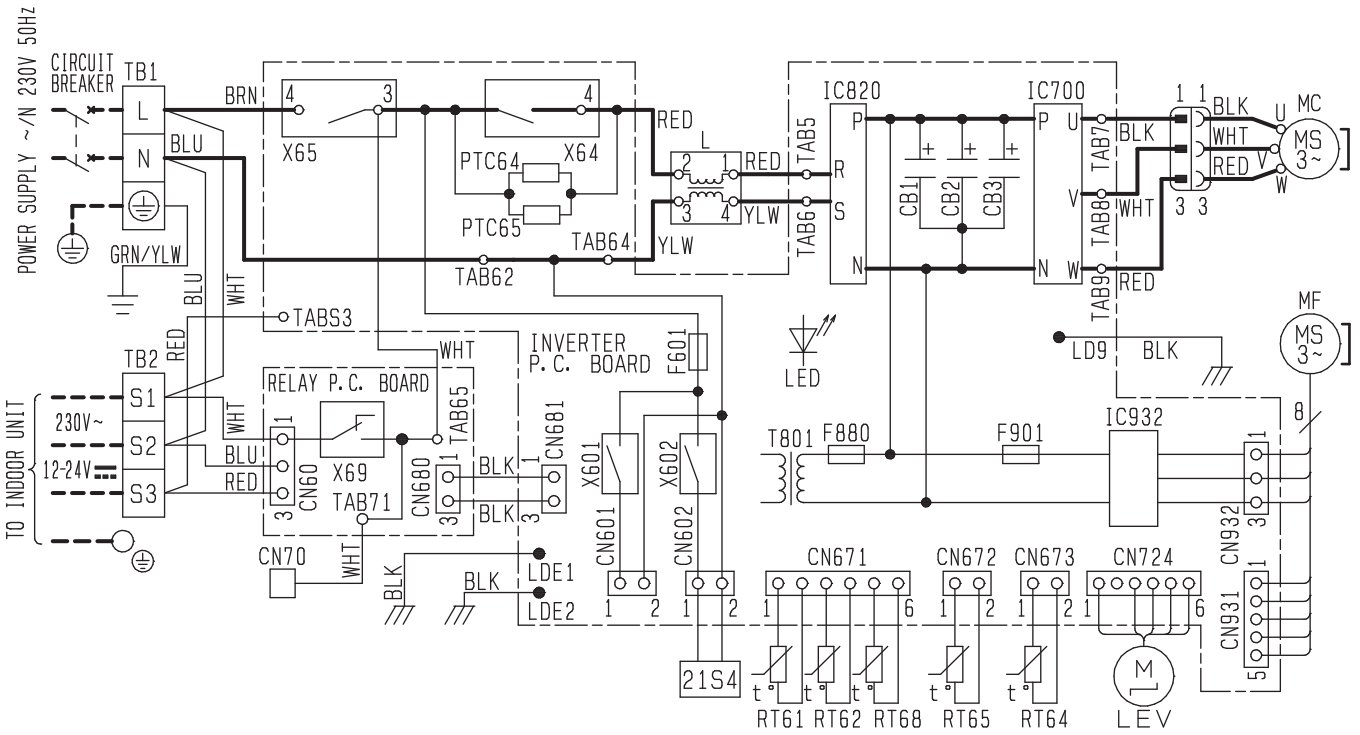
OUTDOOR UNIT



SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
CN70	CONNECTOR	LEV	EXPANSION VALVE COIL	RT68	OUTDOOR HEAT EXCHANGER TEMP. THERMISTOR.
C61, C62, C63	SMOOTHING CAPACITOR	L61	REACTOR		
DB61	DIODE MODULE	MC	COMPRESSOR	TB	TERMINAL BLOCK
F61	FUSE (T20AL250V)	MF	FAN MOTOR	T801	TRANSFORMER
F701, F801, F901	FUSE (T3.15AL250V)	PTC64, PTC65	CIRCUIT PROTECTION	X63, X64	RELAY
H	DEFROST HEATER	RT61	DEFROST THERMISTOR	X66, X69	
IC700, IC820, IC932	POWER MODULE	RT62	DISCHARGE TEMP. THERMISTOR	21S4	REVERSING VALVE COIL
IC802	POWER DEVICE	RT64	FIN TEMP. THERMISTOR	26H	HEATER PROTECTOR
LED	LED	RT65	AMBIENT TEMP. THERMISTOR		

MUZ-GF60VE MUZ-GF71VE

OUTDOOR UNIT

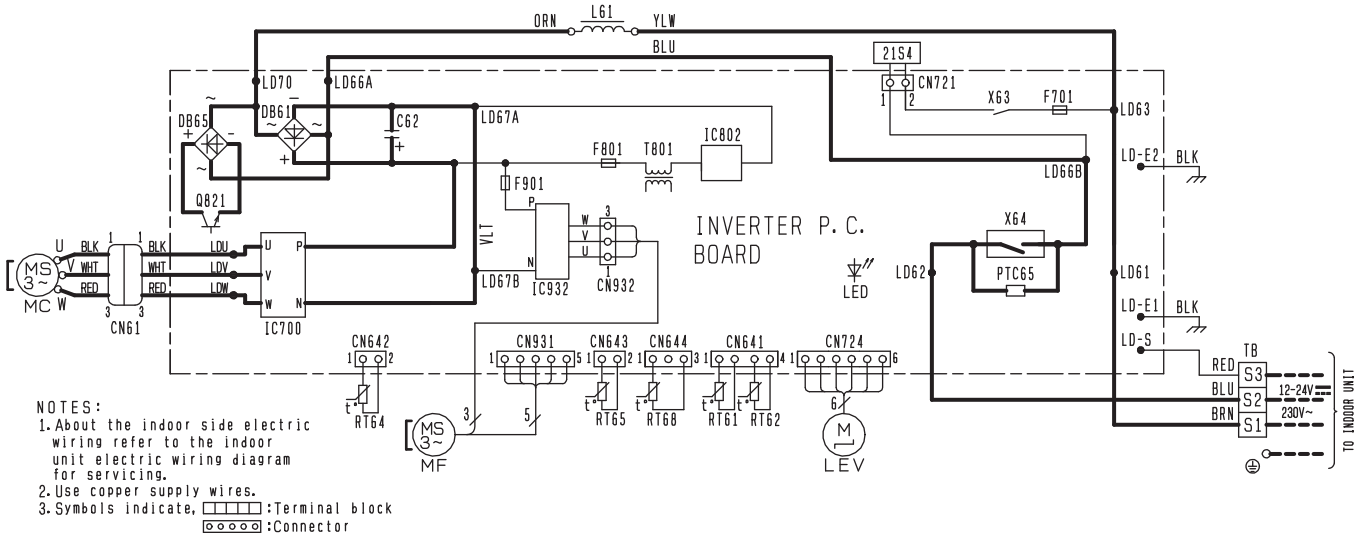


SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
CB1~3	SMOOTHING CAPACITOR	L	REACTOR	RT62	DISCHARGE TEMP. THERMISTOR	X602	RELAY
CN70	CONNECTOR	LED	LED	RT64	FIN TEMP. THERMISTOR	X64	RELAY
F601	FUSE(T3.15AL250V)	LEV	EXPANSION VALVE COIL	RT65	AMBIENT TEMP. THERMISTOR	X65	RELAY
F880	FUSE(T3.15AL250V)	MC	COMPRESSOR	RT68	OUTDOOR HEAT EXCHANGER TEMP. THERMISTOR	X69	RELAY
F901	FUSE(T3.15AL250V)	MF	FAN MOTOR			21S4	REVERSING VALVE SOLENOID COIL
IC700	IGBT Module	PTC64	CIRCUIT PROTECTION	TB1, TB2	TERMINAL BLOCK		
IC820	DIODE Module	PTC65	CIRCUIT PROTECTION	T801	TRANSFORMER		
IC932	IGBT Module	RT61	DEFROST THERMISTOR	X601	RELAY		

NOTES 1. About the indoor side electric wiring, refer to the indoor unit electric wiring diagram for servicing.
2. Use copper conductors only(for field wiring). 3. Symbols indicate, □□□ :Terminal block

MUZ-DM25VA MUZ-DM35VA

OUTDOOR UNIT

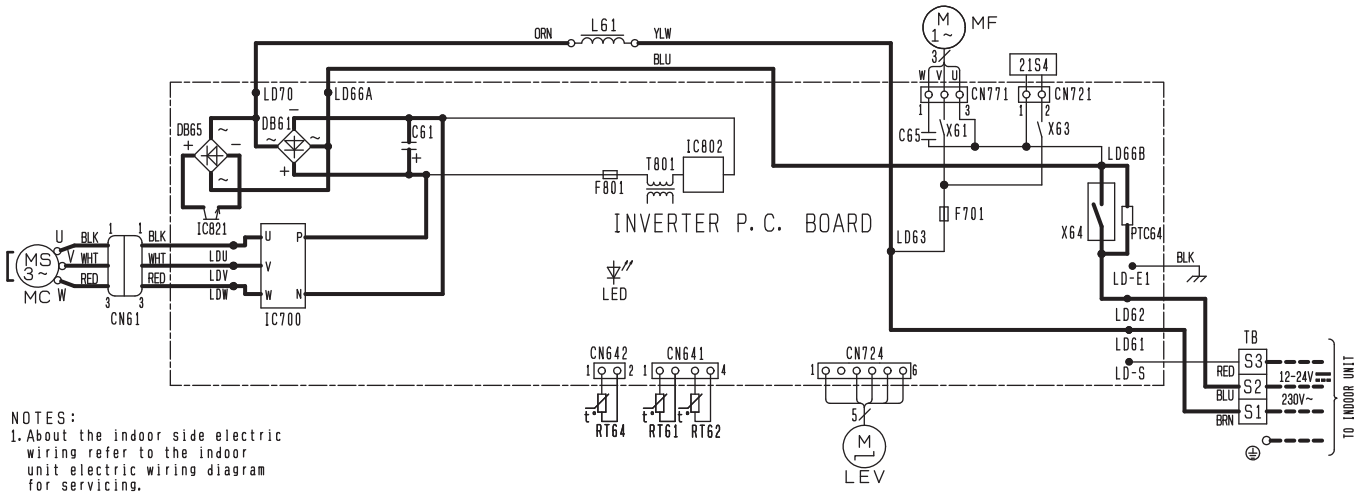


NOTES:
1. About the indoor side electric wiring refer to the indoor unit electric wiring diagram for servicing.
2. Use copper supply wires.
3. Symbols indicate, ▭▭▭ :Terminal block
   ▭▭▭ :Connector

SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
CN61	CONNECTOR	L61	REACTOR	RT65	AMBIENT TEMP. THERMISTOR
C62	SMOOTHING CAPACITOR	MC	COMPRESSOR	RT68	OUTDOOR HEAT EXCHANGER TEMP. THERMISTOR
DB61, DB65	DIODE MODULE	MF	FAN MOTOR		
F701, F801, F901	FUSE (T3.15AL250V)	PTC65	CIRCUIT PROTECTION	TB	TERMINAL BLOCK
IC700, IC932	POWER MODULE	Q821	SWITCHING POWER TRANSISTOR	T801	TRANSFORMER
IC802	POWER DEVICE	RT61	DEFROST THERMISTOR	X63, X64	RELAY
LED	LED	RT62	DISCHARGE TEMP. THERMISTOR	21S4	REVERSING VALVE COIL
LEV	EXPANSION VALVE COIL	RT64	FIN TEMP. THERMISTOR		

MUZ-HJ25VA

OUTDOOR UNIT

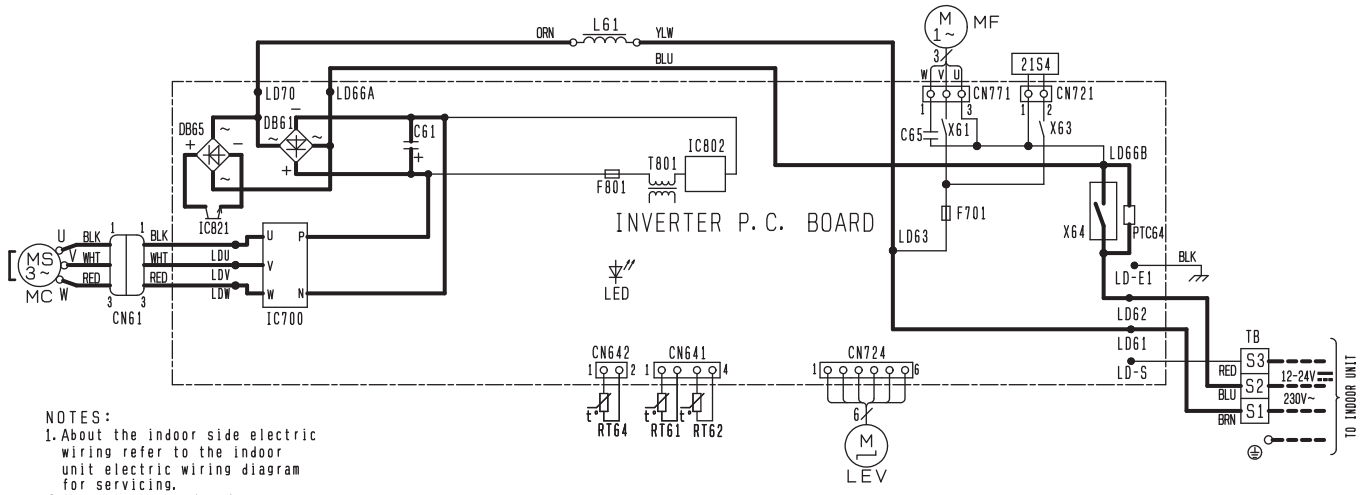


NOTES:
1. About the indoor side electric wiring refer to the indoor unit electric wiring diagram for servicing.
2. Use copper supply wires.
3. Symbols indicate, ▭▭▭ :Terminal block
   ▭▭▭ :Connector

SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
CN61	CONNECTOR	IC821	SWITCHING POWER TRANSISTOR	RT61	DEFROST THERMISTOR
C61	SMOOTHING CAPACITOR	LED	LED	RT62	DISCHARGE TEMP. THERMISTOR
C65	FAN MOTOR CAPACITOR	LEV	EXPANSION VALVE COIL	RT64	FIN TEMP. THERMISTOR
DB61, DB65	DIODE MODULE	L61	REACTOR	TB	TERMINAL BLOCK
F701, F801	FUSE (T3.15AL250V)	MC	COMPRESSOR	T801	TRANSFORMER
IC700	POWER MODULE	MF	FAN MOTOR(INNER FUSE)	X61, X63, X64	RELAY
IC802	POWER DEVICE	PTC64	CIRCUIT PROTECTION	21S4	REVERSING VALVE COIL

MUZ-HJ35VA

OUTDOOR UNIT

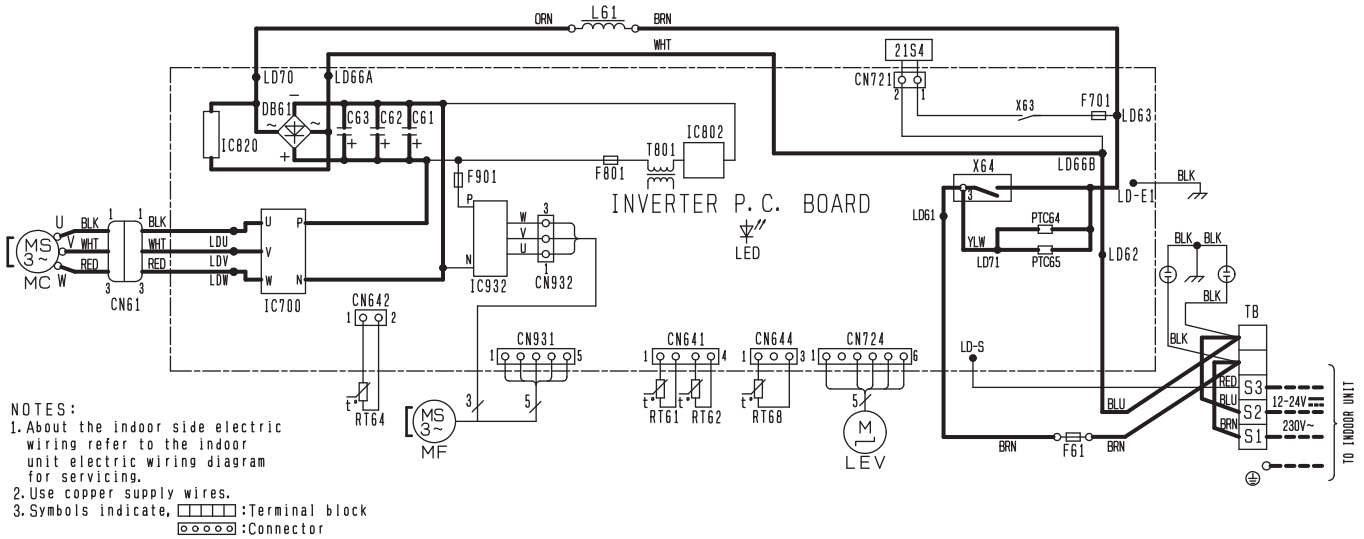


NOTES:
1. About the indoor side electric wiring refer to the indoor unit electric wiring diagram for servicing.
2. Use copper supply wires.
3. Symbols indicate, □□□□□ :Terminal block
○○○○○ :Connector

SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
CN61	CONNECTOR	IC821	SWITCHING POWER TRANSISTOR	RT61	DEFROST THERMISTOR
C61	SMOOTHING CAPACITOR	LED	LED	RT62	DISCHARGE TEMP. THERMISTOR
C65	FAN MOTOR CAPACITOR	LEV	EXPANSION VALVE COIL	RT64	FIN TEMP. THERMISTOR
DB61, DB65	DIODE MODULE	L61	REACTOR	TB	TERMINAL BLOCK
F701, F801	FUSE (T3.15AL250V)	MC	COMPRESSOR	T801	TRANSFORMER
IC700	POWER MODULE	MF	FAN MOTOR(INNER FUSE)	X61, X63, X64	RELAY
IC802	POWER DEVICE	PTC64	CIRCUIT PROTECTION	21S4	REVERSING VALVE COIL

MUZ-HJ50VA MUZ-HJ60VA MUZ-HJ71VA

OUTDOOR UNIT



NOTES:
1. About the indoor side electric wiring refer to the indoor unit electric wiring diagram for servicing.
2. Use copper supply wires.
3. Symbols indicate, □□□□□ :Terminal block
○○○○○ :Connector

SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
CN61	CONNECTOR	LEV	EXPANSION VALVE COIL	RT68	OUTDOOR HEAT EXCHANGER TEMP. THERMISTOR.
C61, C62, C63	SMOOTHING CAPACITOR	L61	REACTOR		
DB61	DIODE MODULE	MC	COMPRESSOR	TB	TERMINAL BLOCK
F61	FUSE (T20AL250V)	MF	FAN MOTOR	T801	TRANSFORMER
F701, F801, F901	FUSE (T3.15AL250V)	PTC64, PTC65	CIRCUIT PROTECTION	X63, X64	RELAY
IC700, IC820, IC932	POWER MODULE	RT61	DEFROST THERMISTOR	21S4	REVERSING VALVE COIL
IC802	POWER DEVICE	RT62	DISCHARGE TEMP. THERMISTOR		
LED	LED	RT64	FIN TEMP. THERMISTOR		

C.1.4 REFRIGERANT SYSTEM DIAGRAM

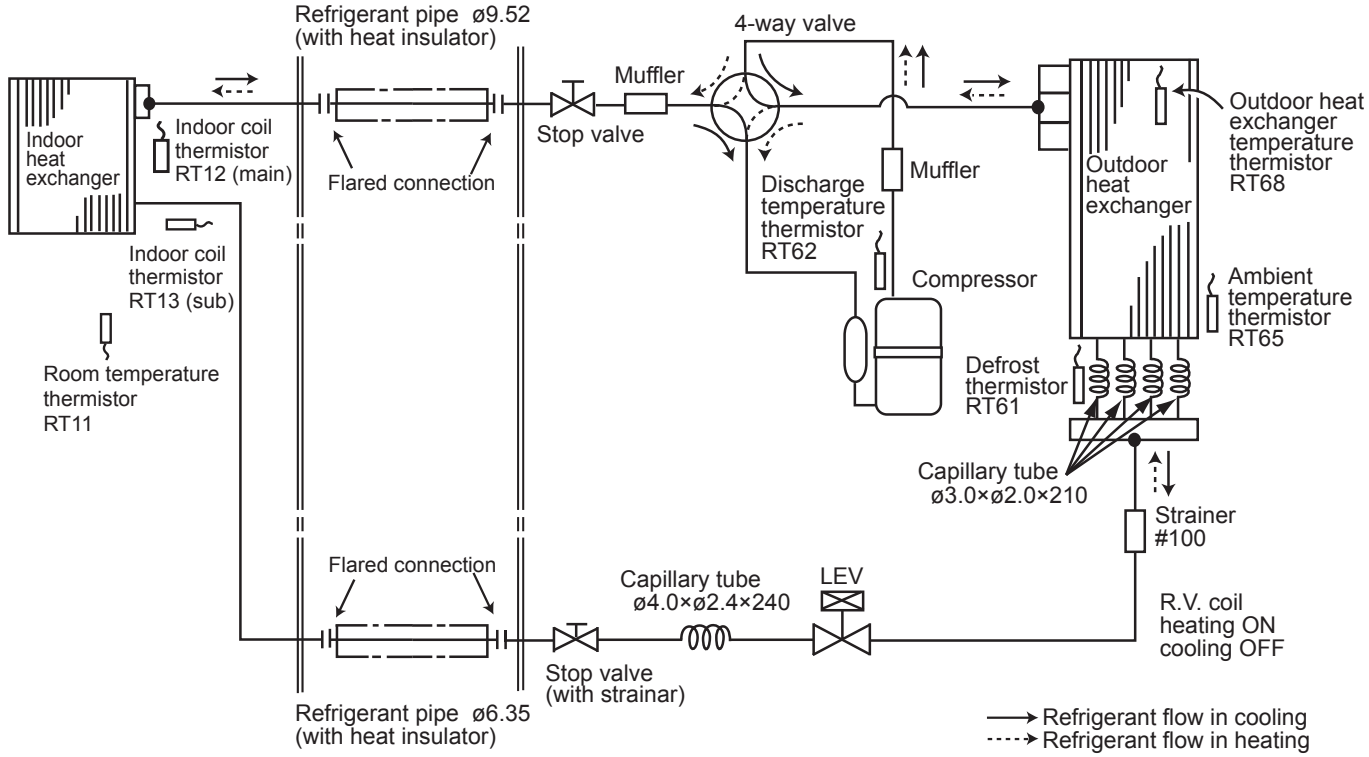
C.1.4.1 Inverter Heat Pump

Unit: mm

MSZ-FH25VE2
MSZ-FH35VE2

MUZ-FH25VE
MUZ-FH25VEHZ
MUZ-FH35VE
MUZ-FH35VEHZ

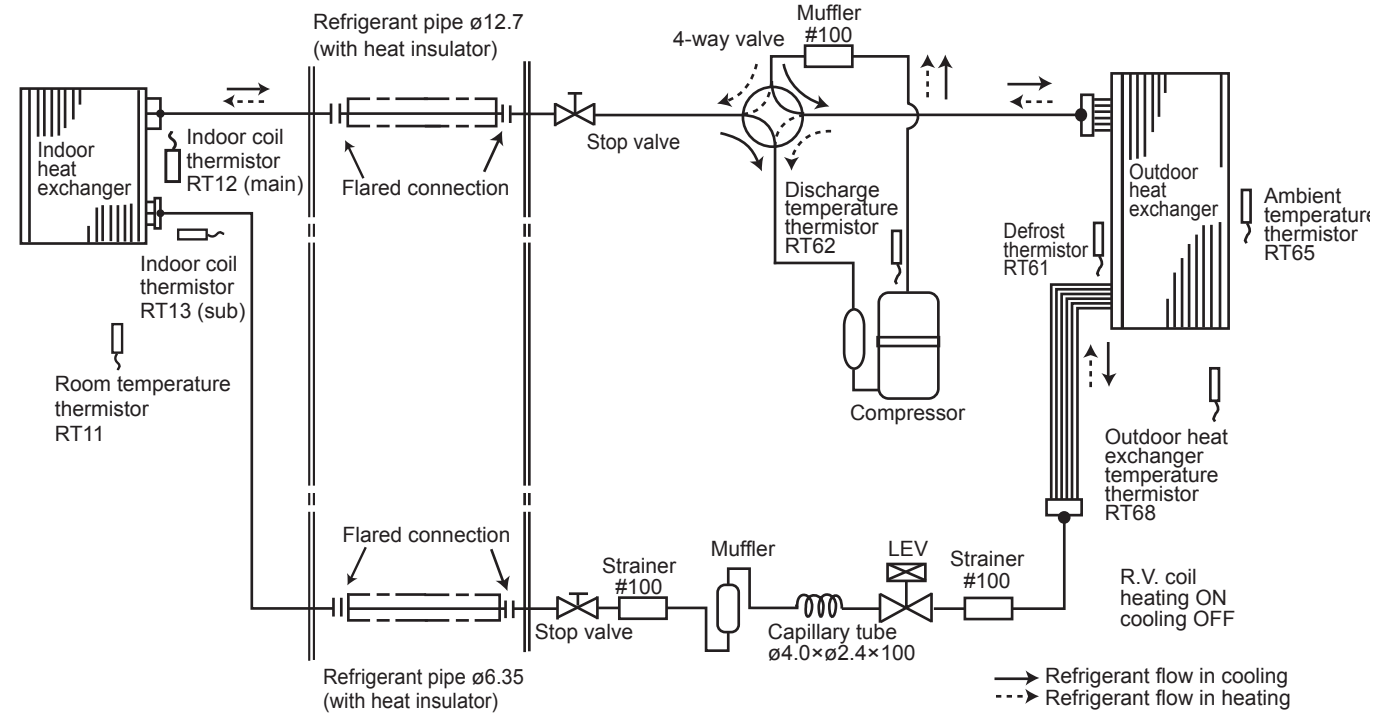
INDOOR UNIT **OUTDOOR UNIT**



MSZ-FH50VE2

MUZ-FH50VE
MUZ-FH50VEHZ

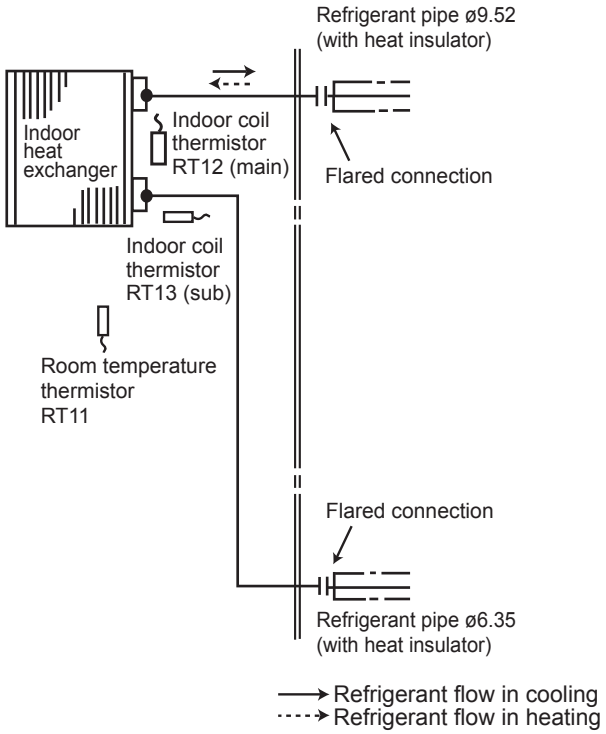
INDOOR UNIT **OUTDOOR UNIT**



Unit: mm

MSZ-EF18VE3W MSZ-EF22VE3W
MSZ-EF18VE3B MSZ-EF22VE3B
MSZ-EF18VE3S MSZ-EF22VE3S

INDOOR UNIT **OUTDOOR UNIT**

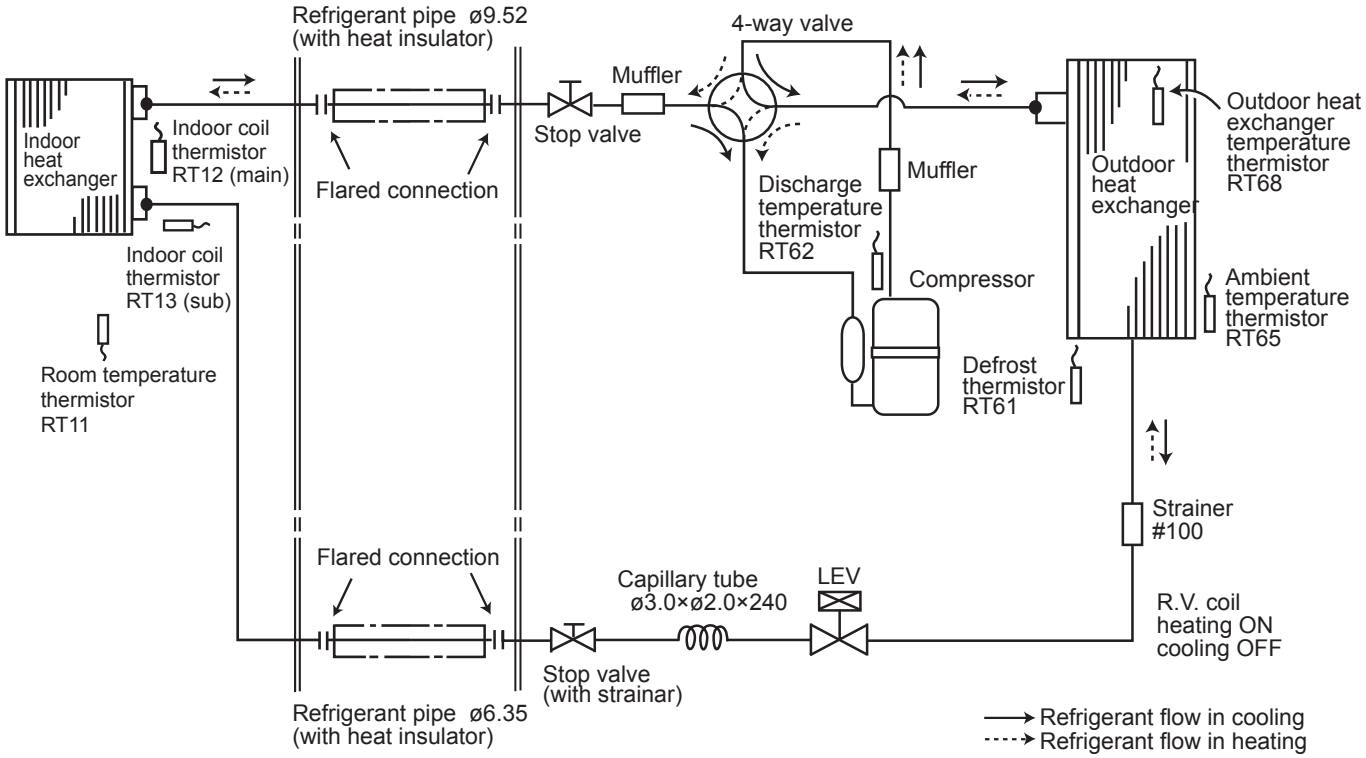


For MXZ connection

MSZ-EF25VE3W
MSZ-EF25VE3B
MSZ-EF25VE3S

MUZ-EF25VE
MUZ-EF25VEH

INDOOR UNIT **OUTDOOR UNIT**



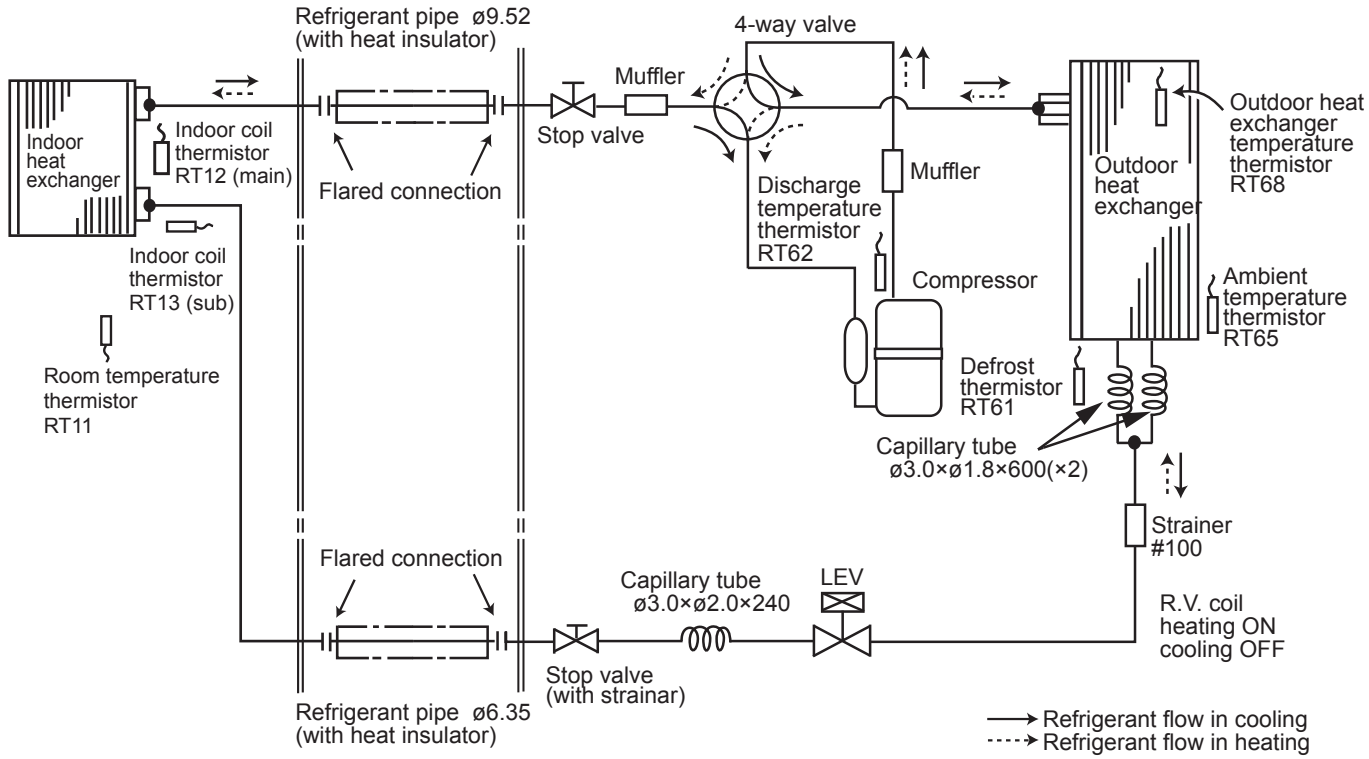
Unit: mm

MSZ-EF35VE3W MSZ-EF42VE3W
MSZ-EF35VE3B MSZ-EF42VE3B
MSZ-EF35VE3S MSZ-EF42VE3S

MUZ-EF35VE
MUZ-EF35VEH
MUZ-EF42VE

INDOOR UNIT

OUTDOOR UNIT

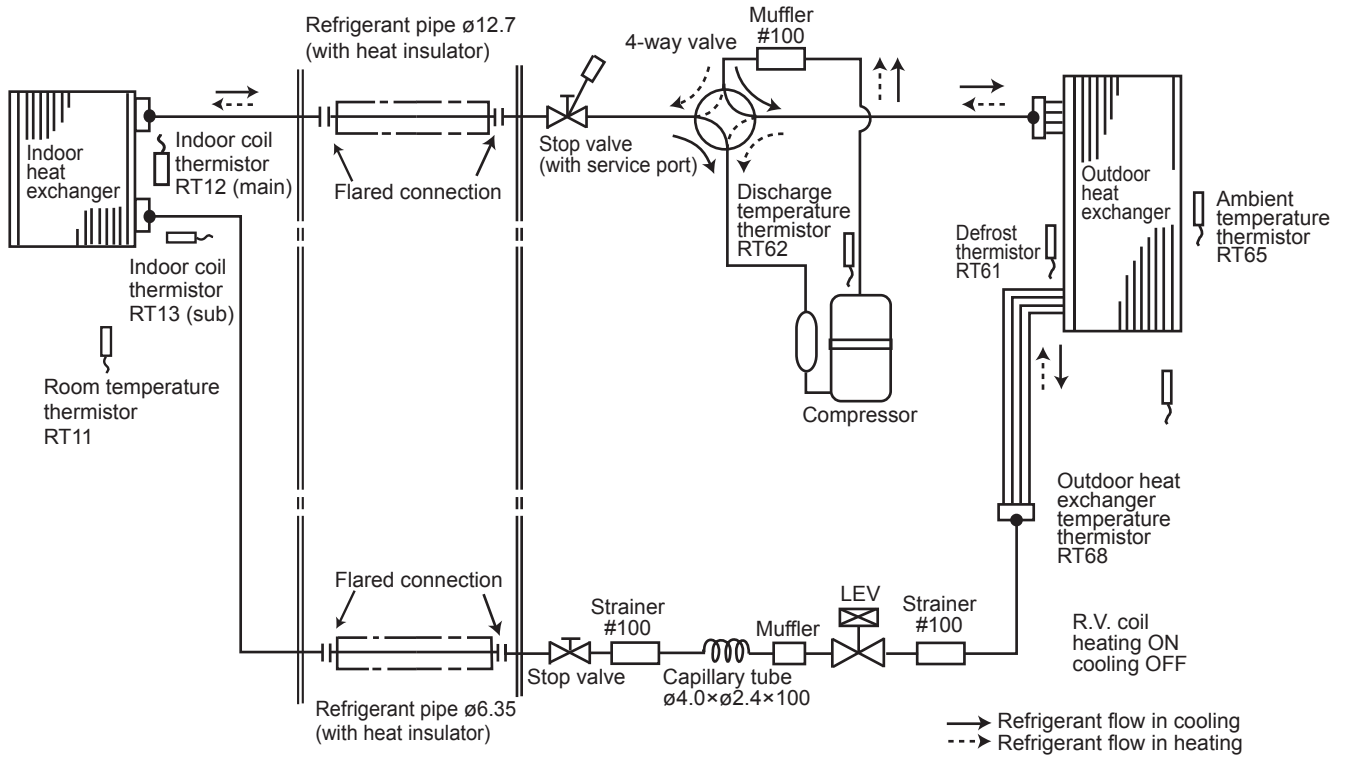


MSZ-EF50VE3W
MSZ-EF50VE3B
MSZ-EF50VE3S

MUZ-EF50VE

INDOOR UNIT

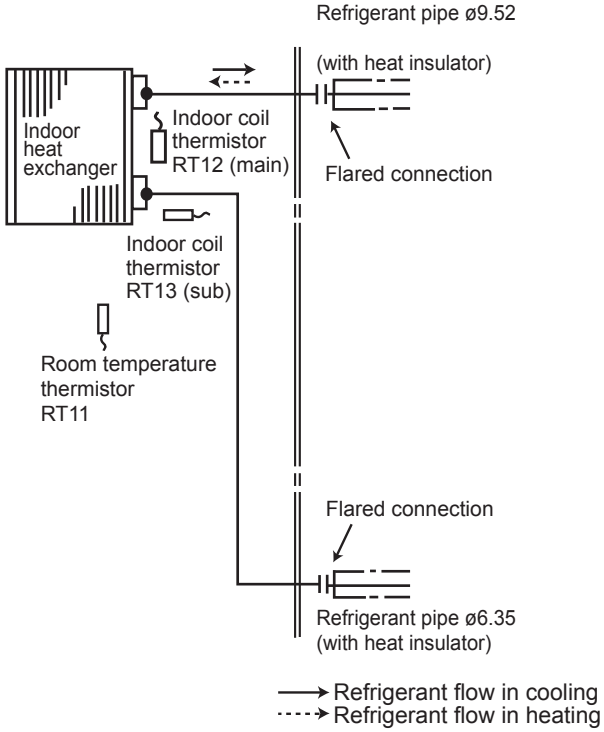
OUTDOOR UNIT



Unit: mm

MSZ-SF15VA
MSZ-SF20VA

INDOOR UNIT **OUTDOOR UNIT**

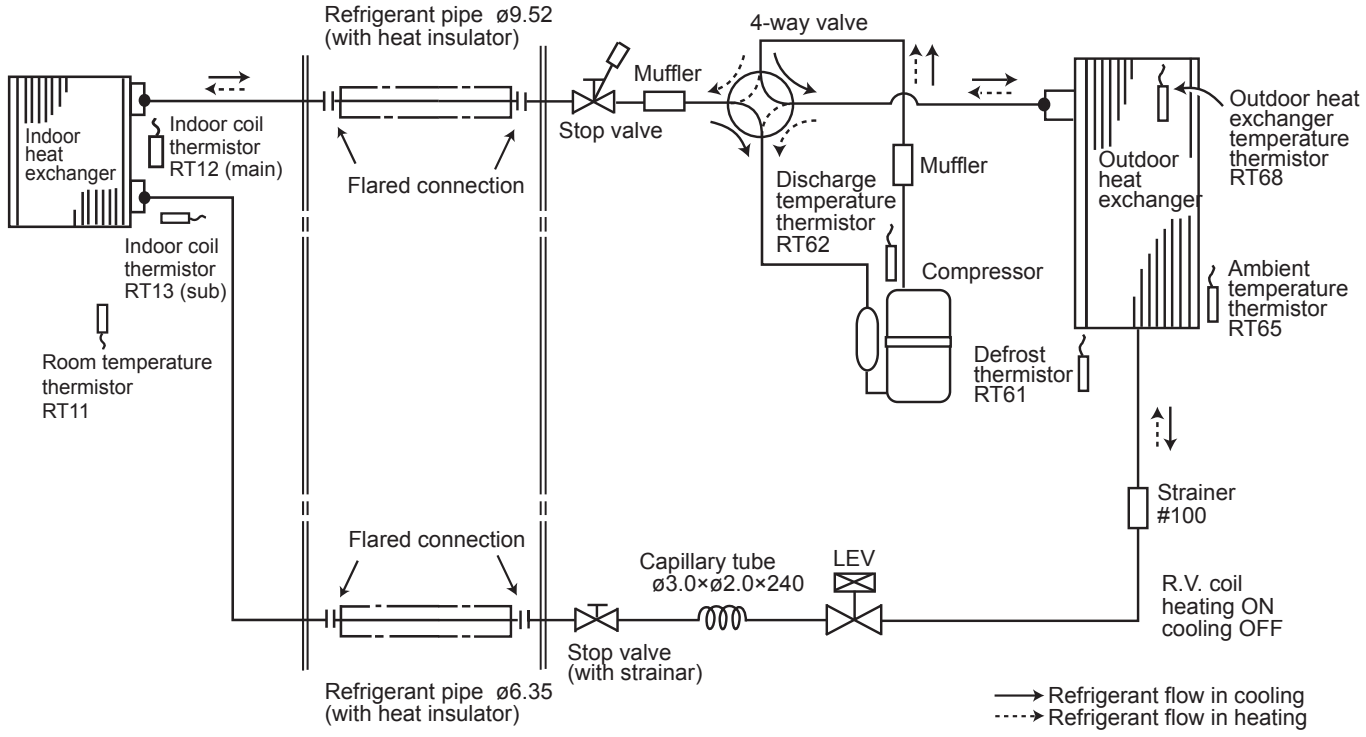


For MXZ connection

MSZ-SF25VE3
MSZ-SF35VE3

MUZ-SF25VE
MUZ-SF25VEH
MUZ-SF35VE
MUZ-SF35VEH

INDOOR UNIT **OUTDOOR UNIT**



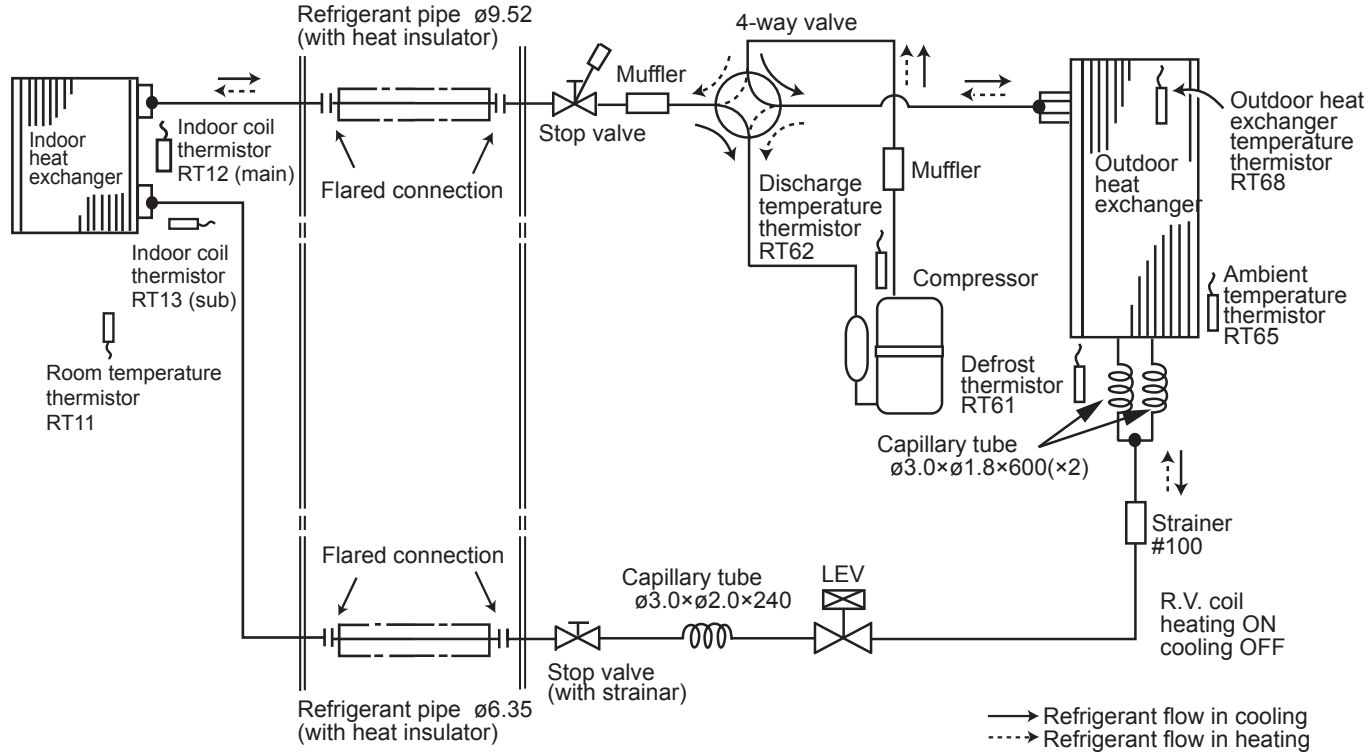
Unit: mm

MSZ-SF42VE3

MUZ-SF42VE
MUZ-SF42VEH

INDOOR UNIT

OUTDOOR UNIT

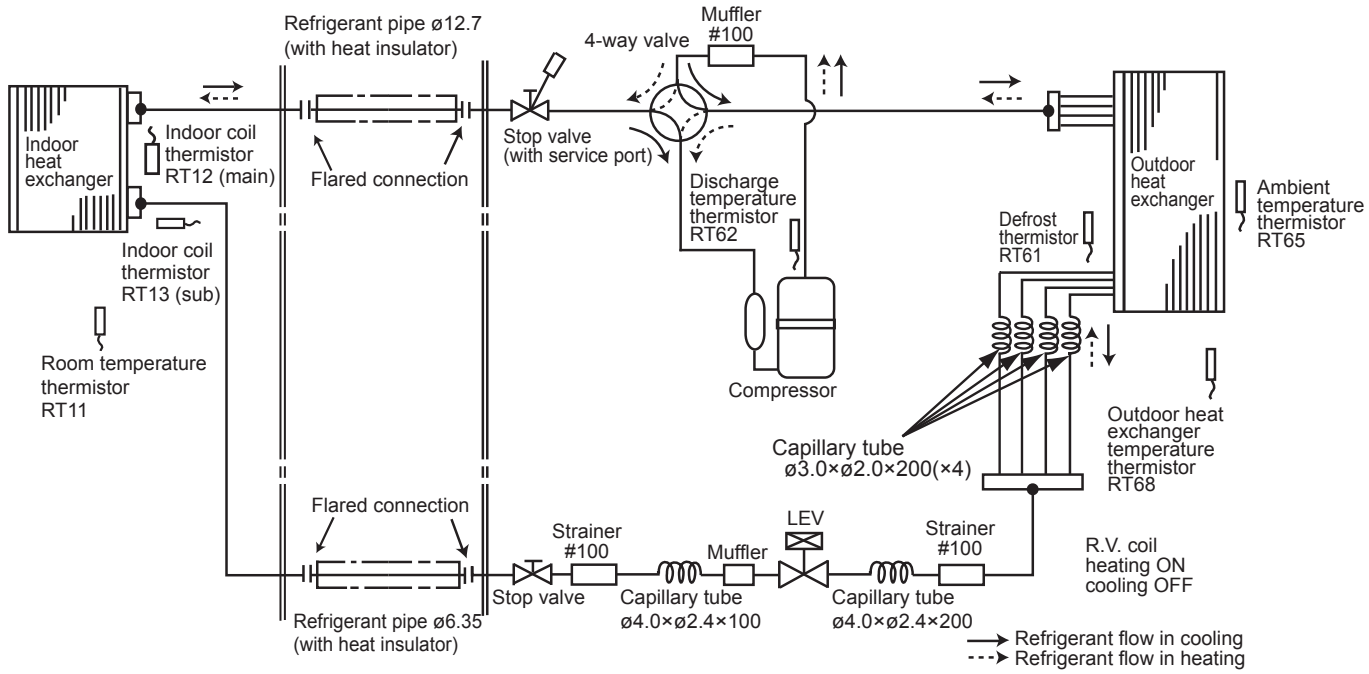


MSZ-SF50VE3

MUZ-SF50VE
MUZ-SF50VEH

INDOOR UNIT

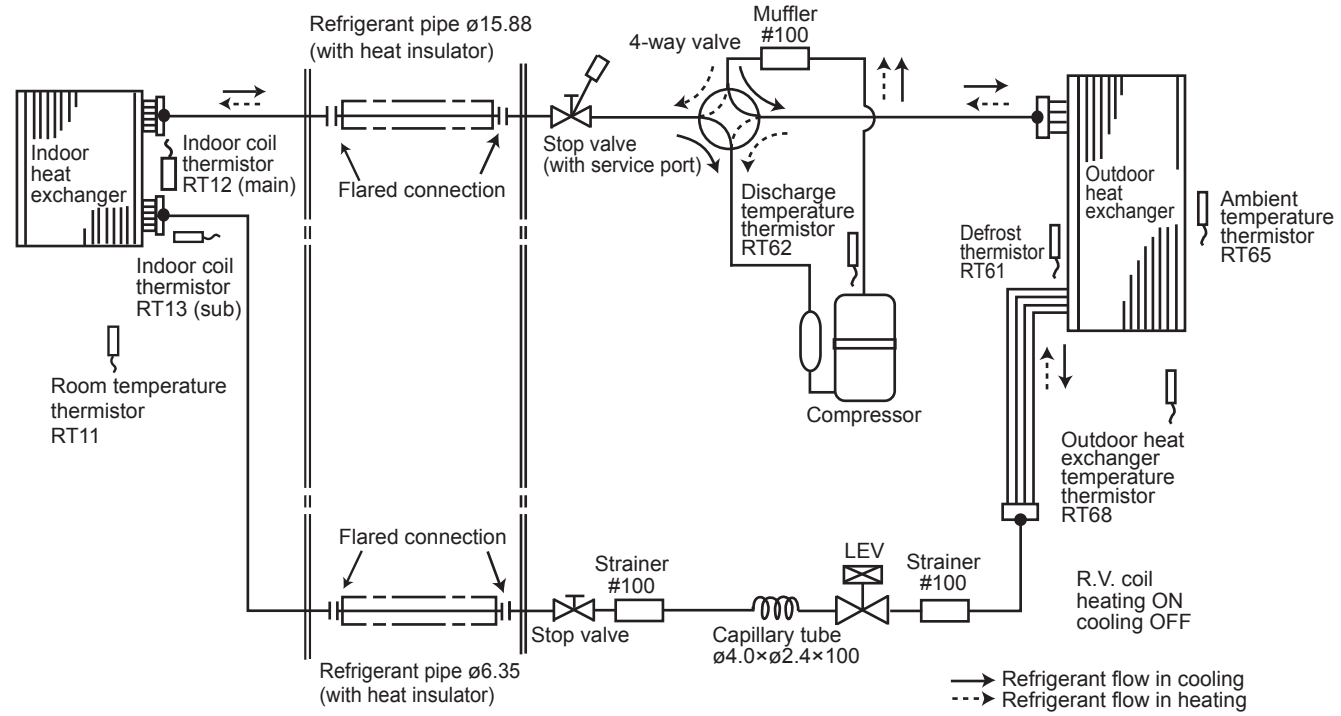
OUTDOOR UNIT



Unit: mm

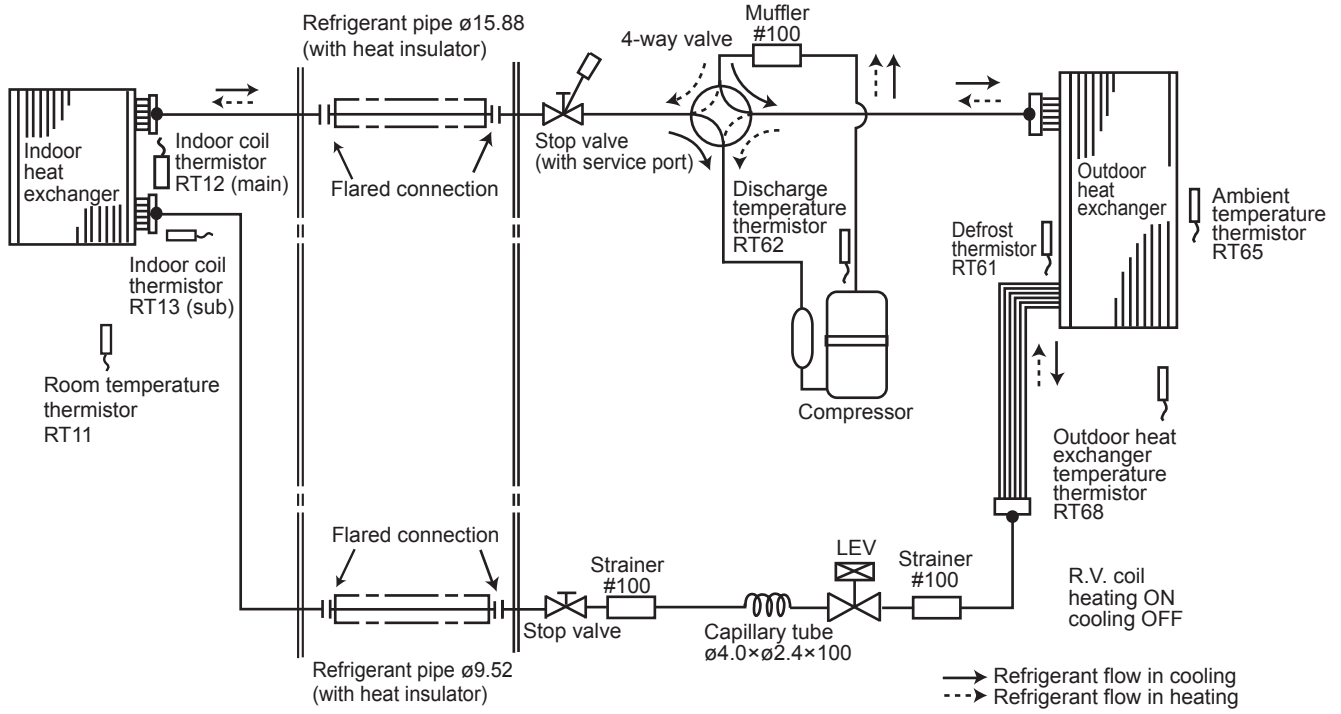
MSZ-GF60VE2
INDOOR UNIT

MUZ-GF60VE
OUTDOOR UNIT



MSZ-GF71VE2
INDOOR UNIT

MUZ-GF71VE
OUTDOOR UNIT

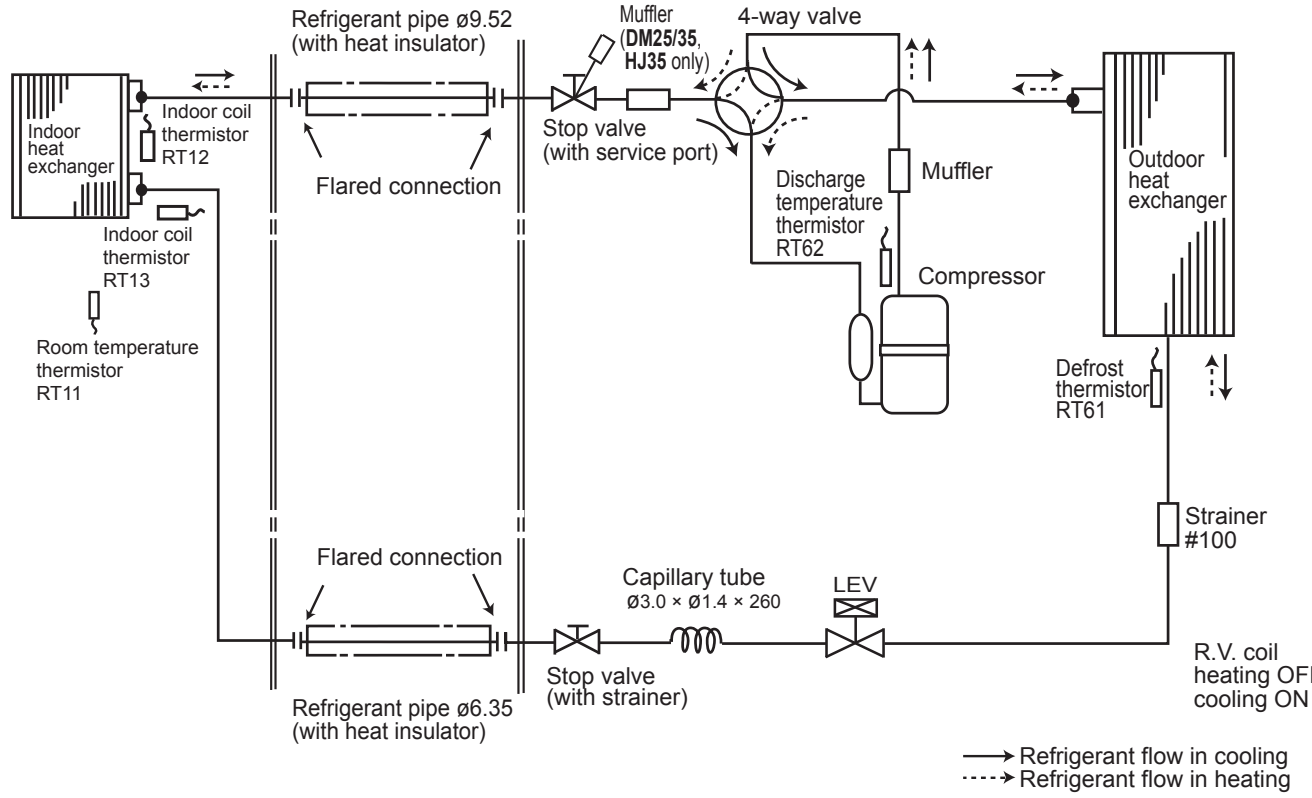


Unit: mm

MSZ-DM25VA
MSZ-DM35VA
MSZ-HJ25VA
MSZ-HJ35VA

MUZ-DM25VA
MUZ-DM35VA
MUZ-HJ25VA
MUZ-HJ35VA

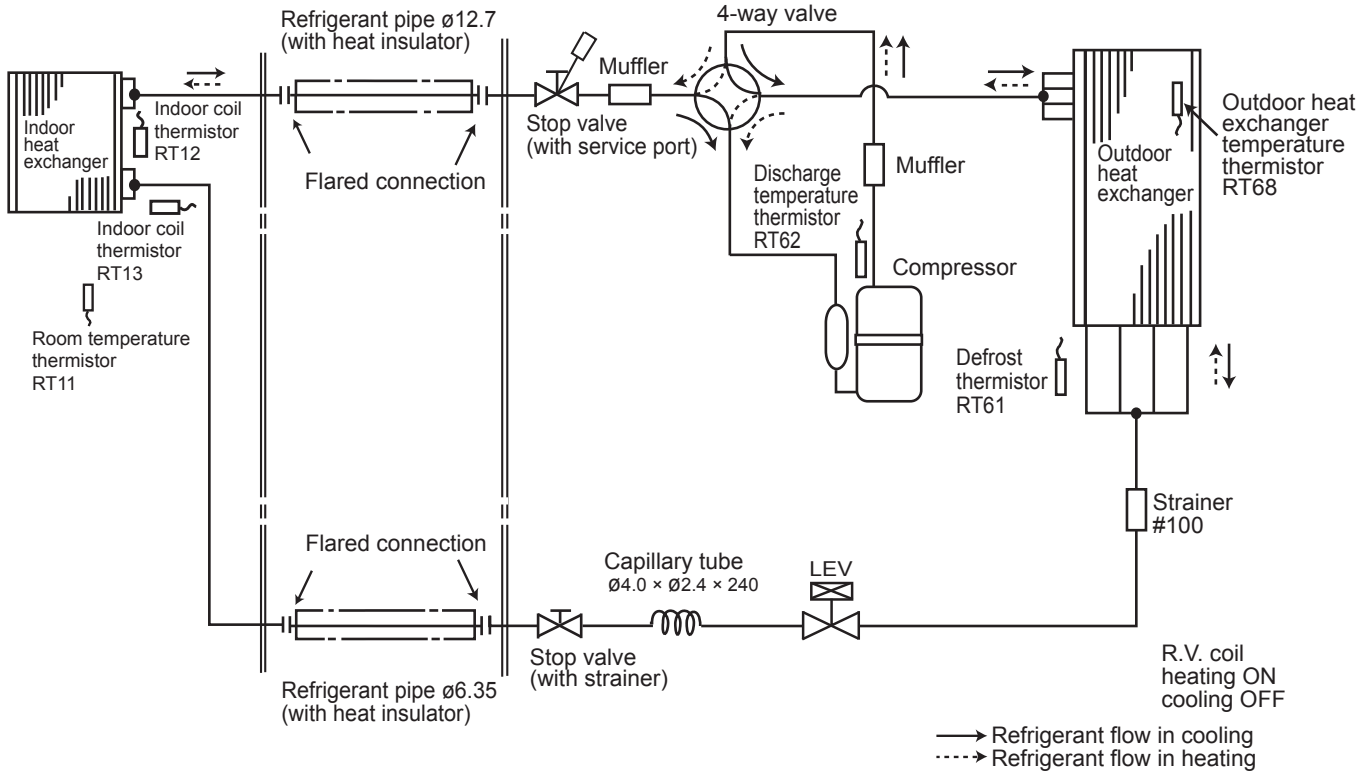
INDOOR UNIT **OUTDOOR UNIT**



MSZ-HJ50VA

MUZ-HJ50VA

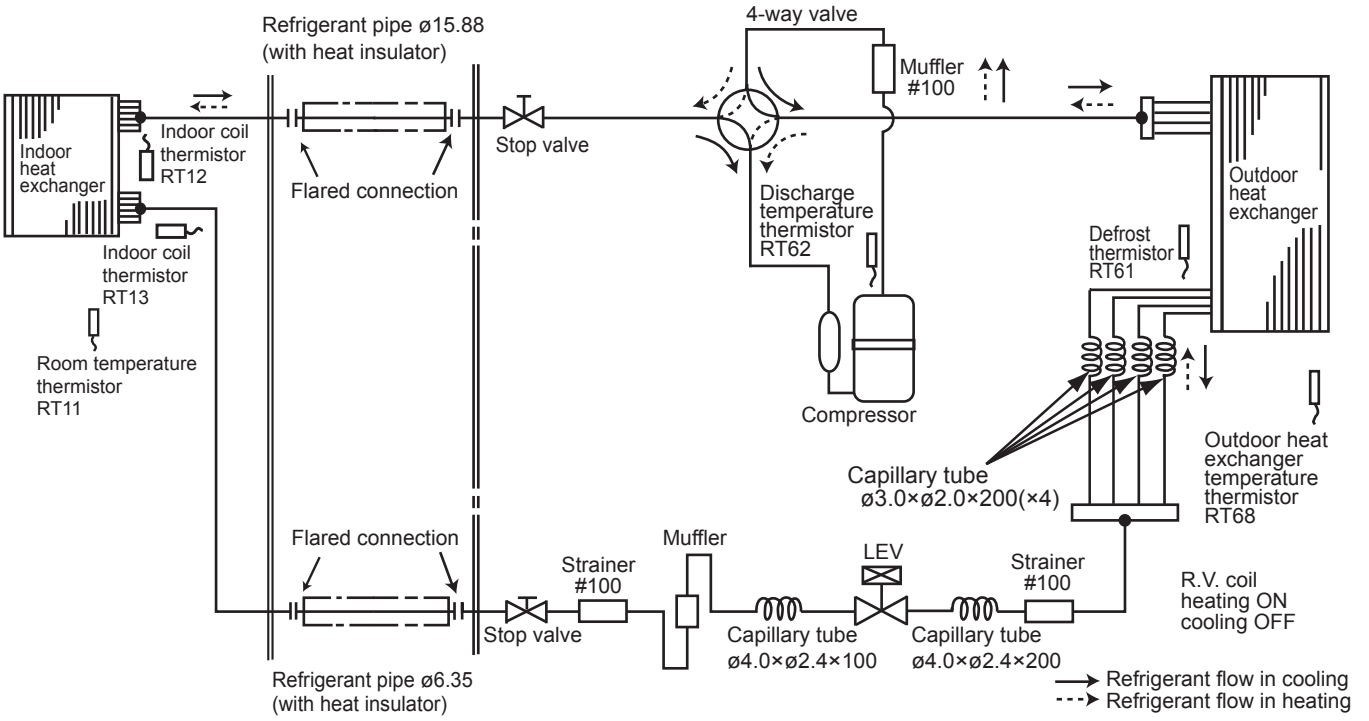
INDOOR UNIT **OUTDOOR UNIT**



Unit: mm

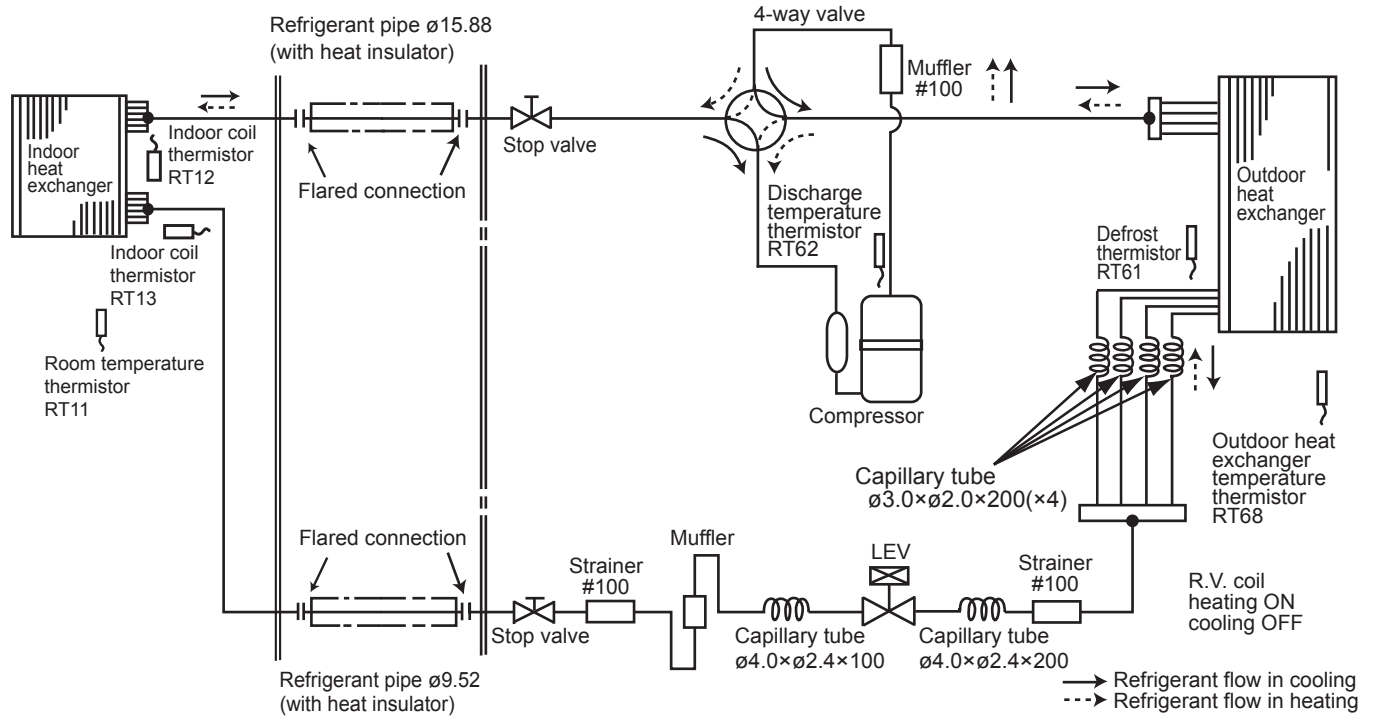
MSZ-HJ60VA / MUZ-HJ60VA

INDOOR UNIT **OUTDOOR UNIT**



MSZ-HJ71VA / MUZ-HJ71VA

INDOOR UNIT **OUTDOOR UNIT**



C.1.5 PERFORMANCE CURVES

The standard specifications apply only to the operation of the air conditioner under normal conditions, since operating conditions vary according to the areas where these units are installed. The following information has been provided to clarify the operating characteristics of the air conditioner under the conditions indicated by the performance curve.

(1) GUARANTEED VOLTAGE

198~264 V, (50 Hz)

(2) AIR FLOW

Air flow should be set at MAX.

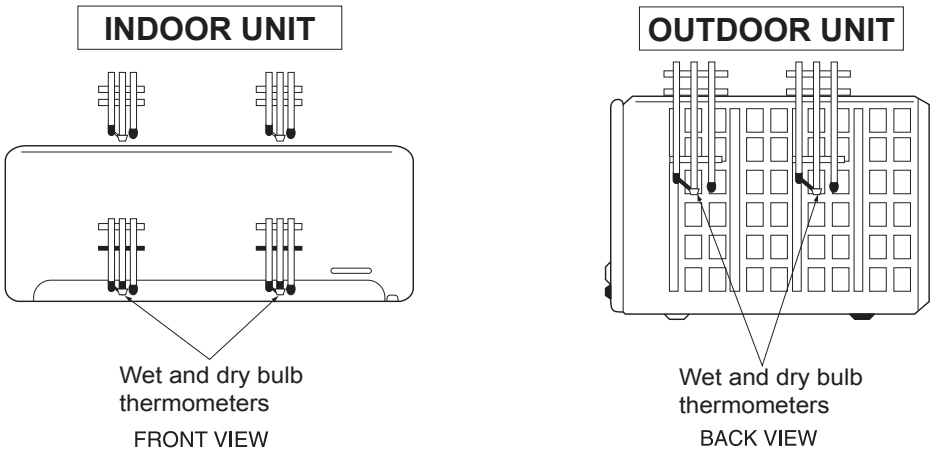
(3) MAIN READINGS

(1) Indoor intake air wet-bulb temperature :	°CWB	Cooling
(2) Indoor outlet air wet-bulb temperature :	°CWB	
(3) Outdoor intake air dry-bulb temperature :	°CDB	
(4) Total input:	W	
(5) Indoor intake air dry-bulb temperature :	°CDB	Heating
(6) Outdoor intake air wet-bulb temperature :	°CWB	
(7) Total input :	W	

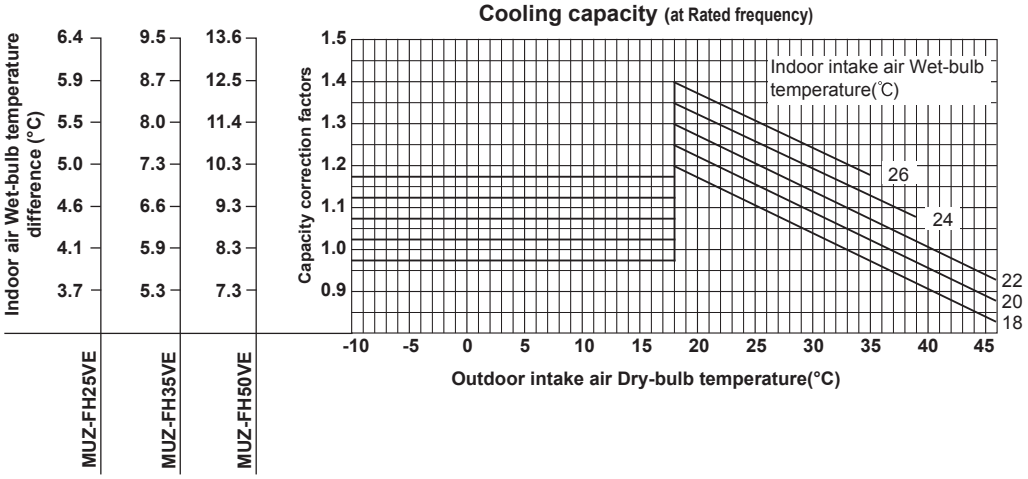
Indoor air wet and dry bulb temperature difference on the left side of the following chart shows the difference between the indoor intake air wet and dry bulb temperature and the indoor outlet air wet and dry bulb temperature for your reference at service.

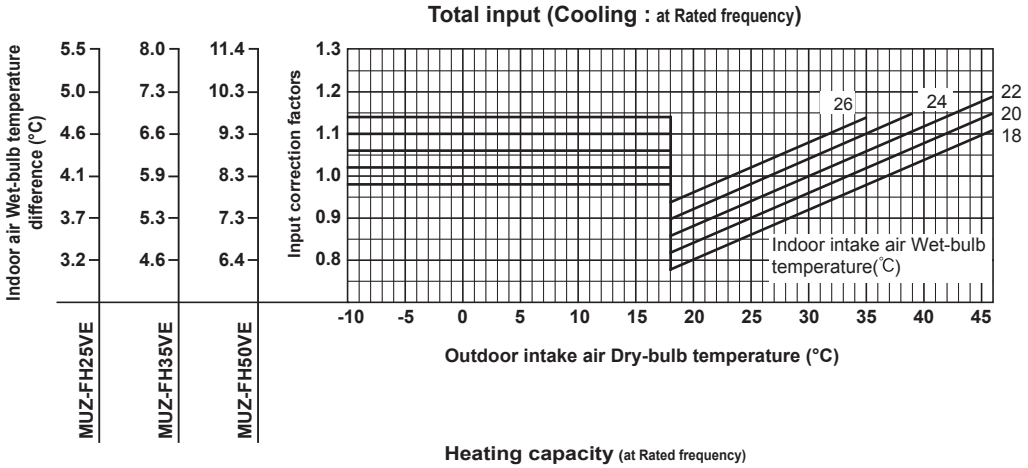
How to measure the indoor air wet/dry bulb temperature difference

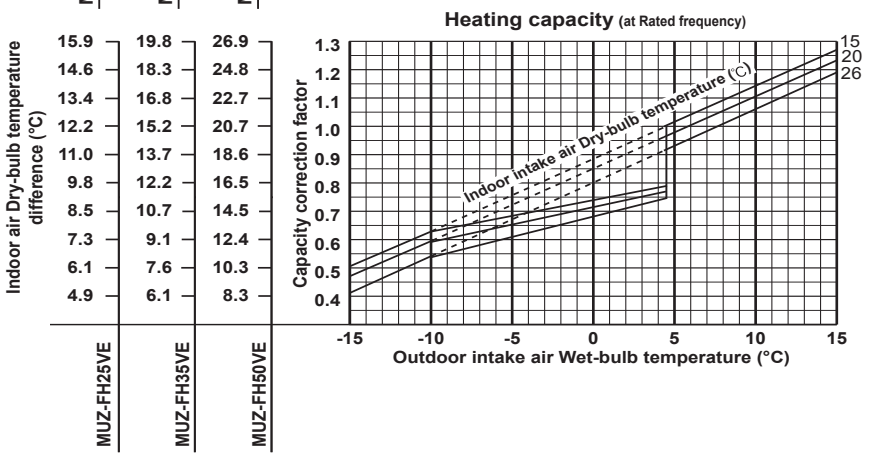
1. Attach at least 2 sets of wet and dry bulb thermometers to the indoor air intake as shown in the figure, and at least 2 sets of wet and dry bulb thermometers to the indoor air outlet. The thermometers must be attached to the position where air speed is high.
2. Attach at least 2 sets of wet and dry bulb thermometers to the outdoor air intake. Cover the thermometers to prevent direct rays of the sun.
3. Check that the air filter is cleaned.
4. Open windows and doors of room.
5. Press the EMERGENCY OPERATION switch once (twice) to start the EMERGENCY COOL (HEAT) MODE.
6. When system stabilizes after more than 15 minutes, measure temperature and take an average temperature.
7. 10 minutes later, measure temperature again and check that the temperature does not change.

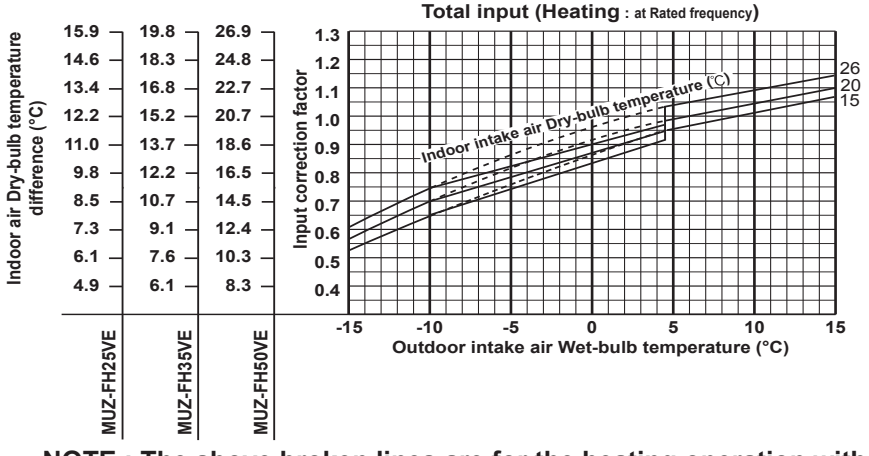


C.1.5.1 Inverter Heat Pump
CAPACITY AND THE INPUT CURVES



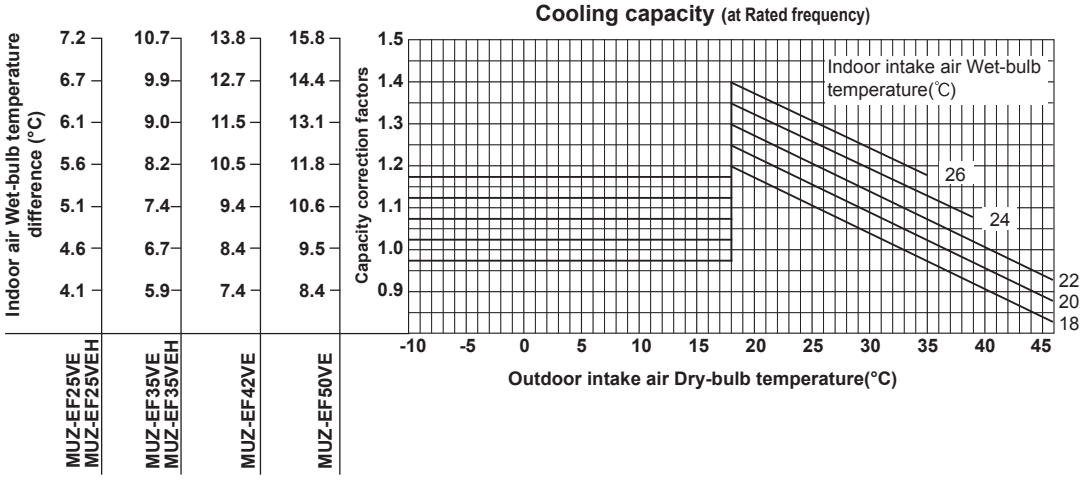




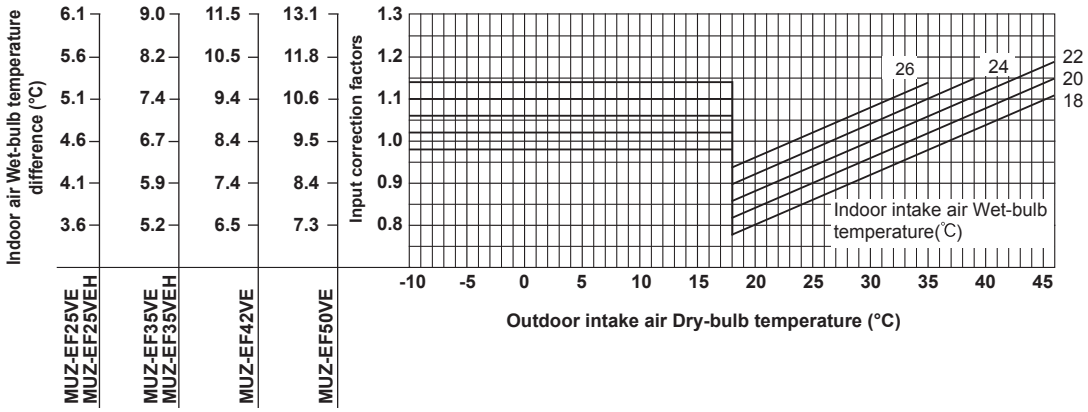


NOTE : The above broken lines are for the heating operation without any frost and defrost operation.

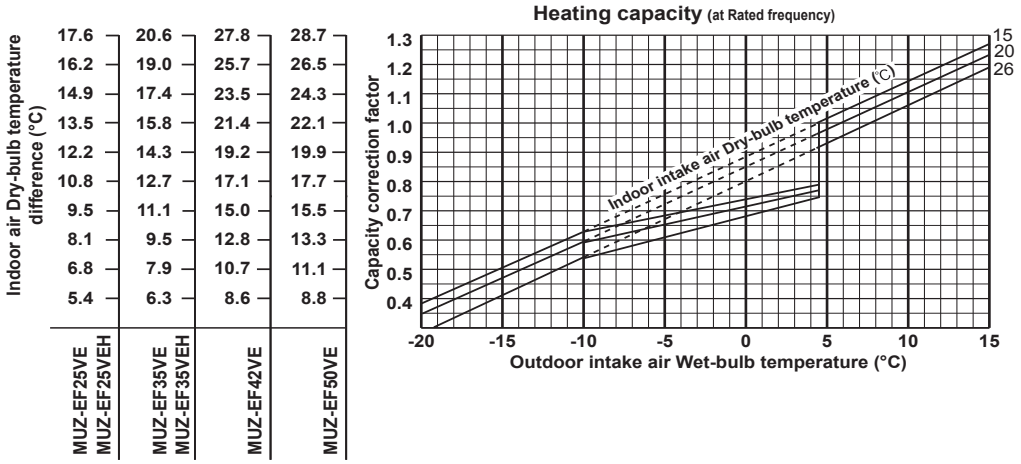
Cooling capacity (at Rated frequency)



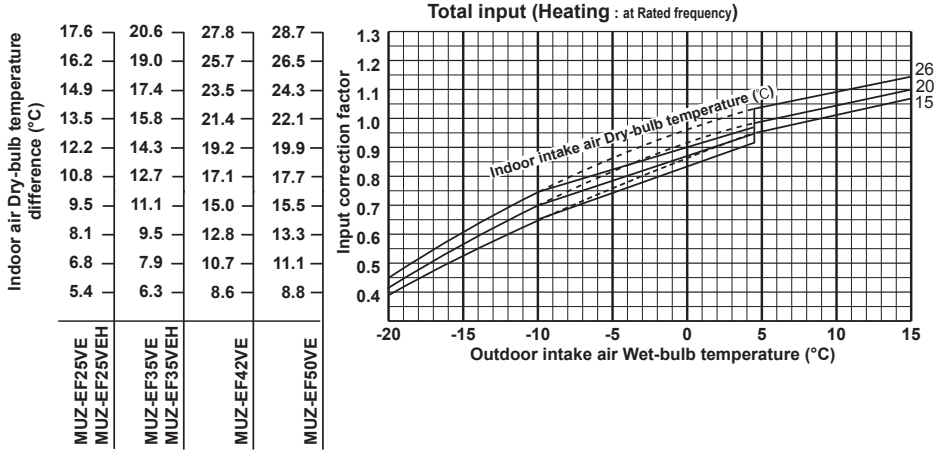
Total input (Cooling : at Rated frequency)



Heating capacity (at Rated frequency)



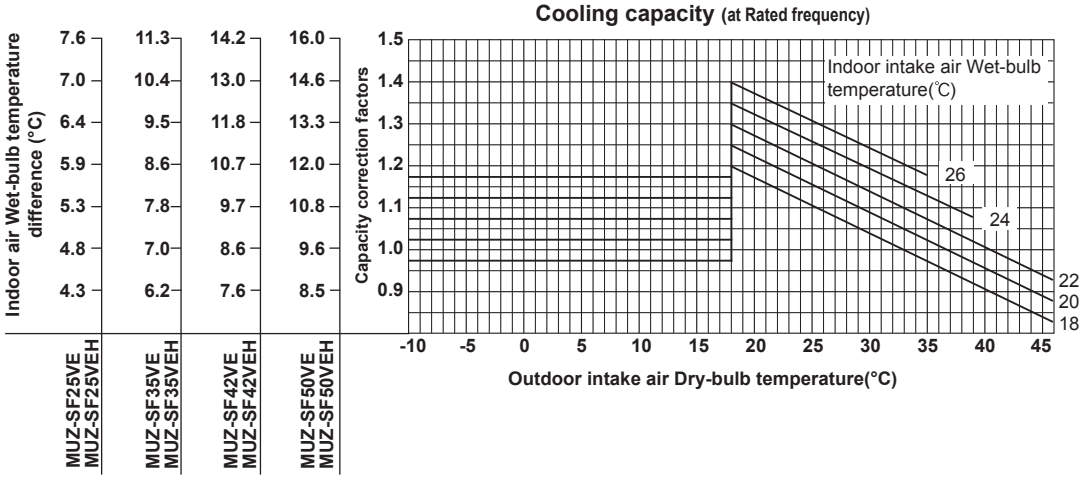
Total input (Heating : at Rated frequency)



Lower limit of guaranteed operating range in heating
MUZ-EF25/35/42/50VE: -15°C
MUZ-EF25/35VEH : -20°C

NOTE : The above broken lines are for the heating operation without any frost and defrost operation.

Cooling capacity (at Rated frequency)



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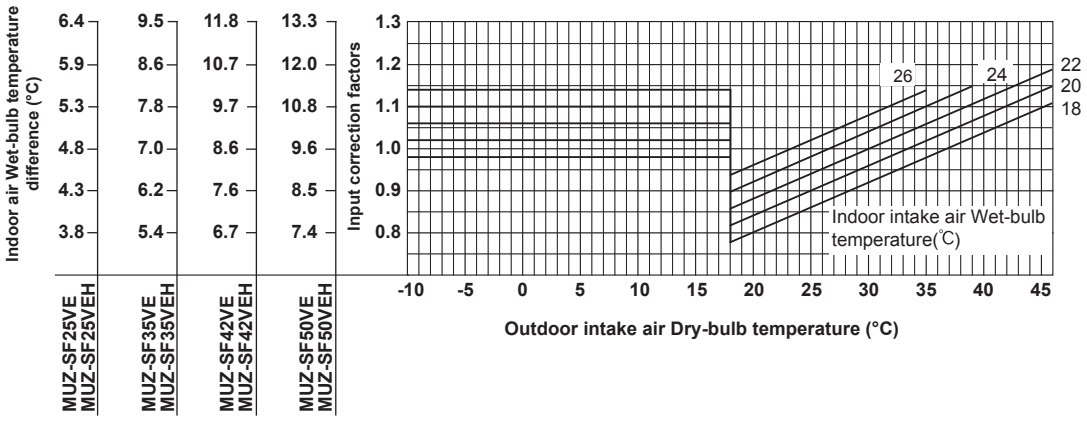
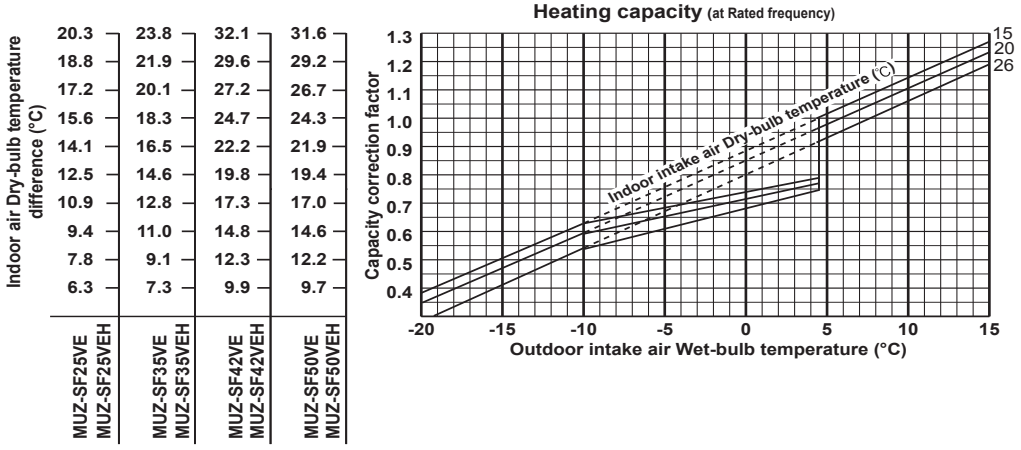


Heating capacity (at Rated frequency)



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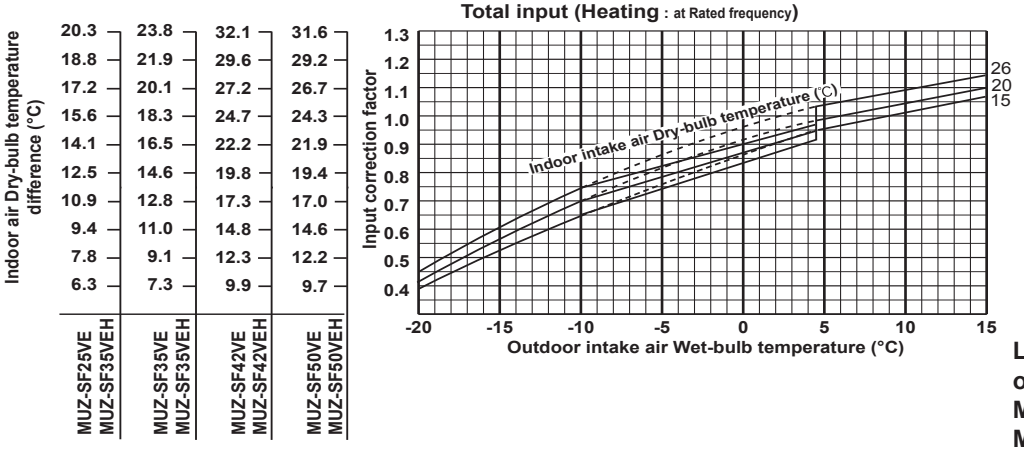
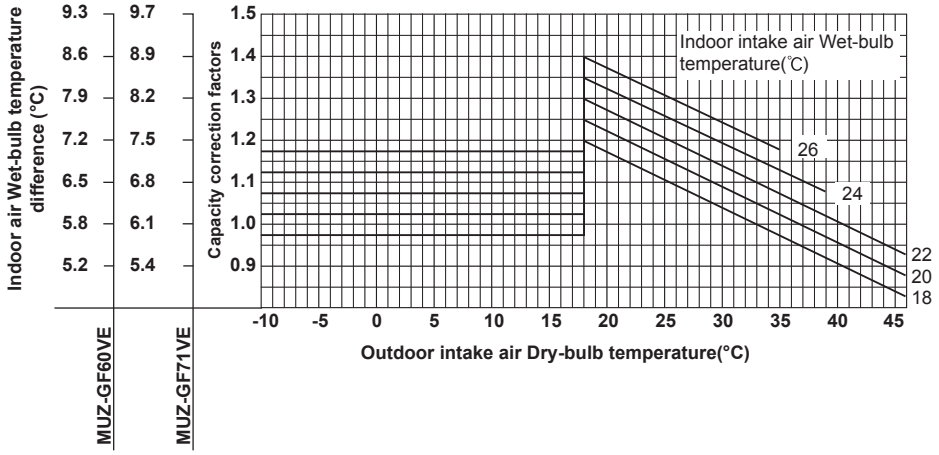


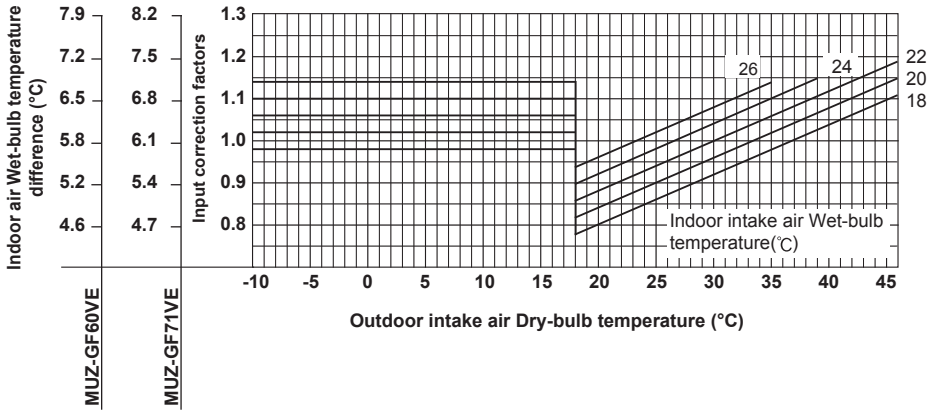
Lower limit of guaranteed oerating range in heating
MUZ-SF25/35/42/50VE: -15°C
MUZ-SF25/35/42/50VEH: -20°C

NOTE : The above broken lines are for the heating operation without any frost and defrost operation.

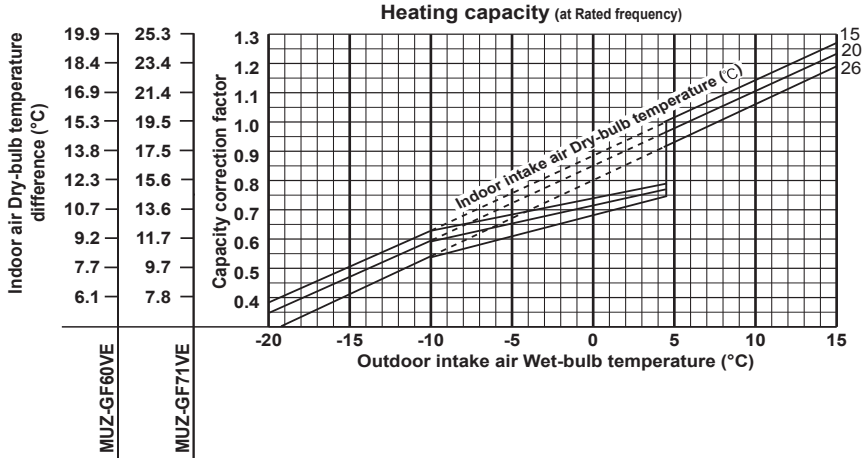
Cooling capacity (at Rated frequency)



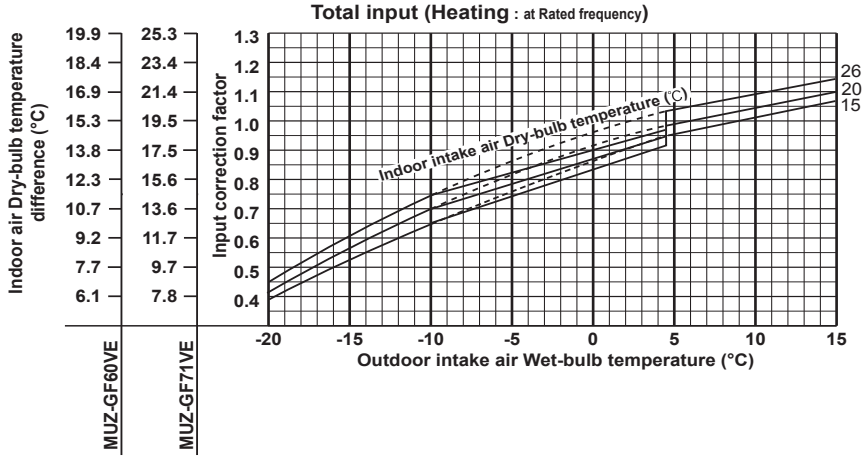
Total input (Cooling : at Rated frequency)



Heating capacity (at Rated frequency)



Total input (Heating : at Rated frequency)



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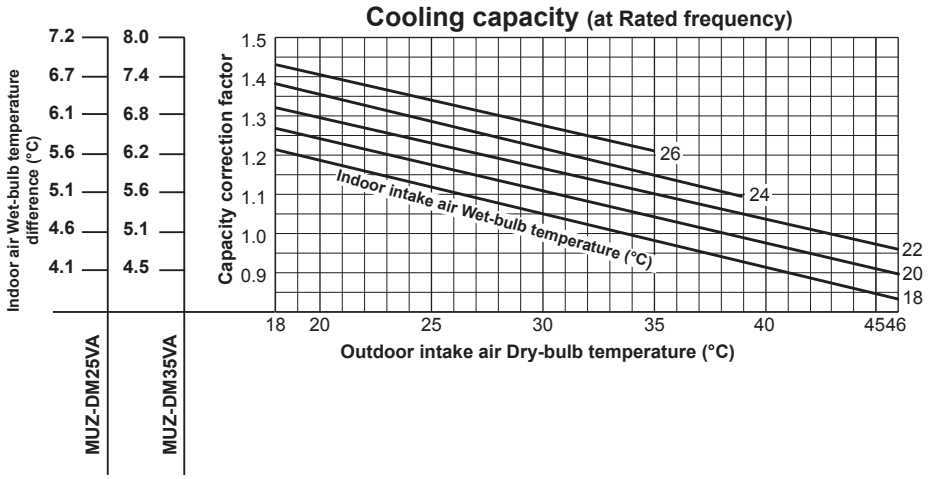
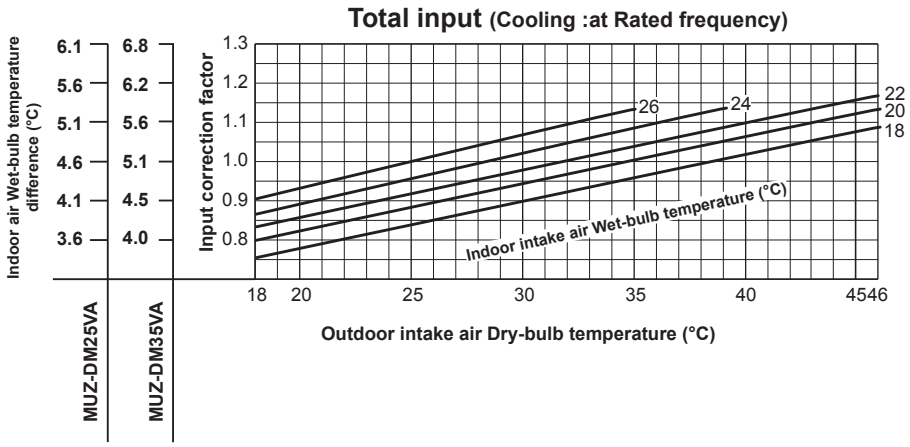
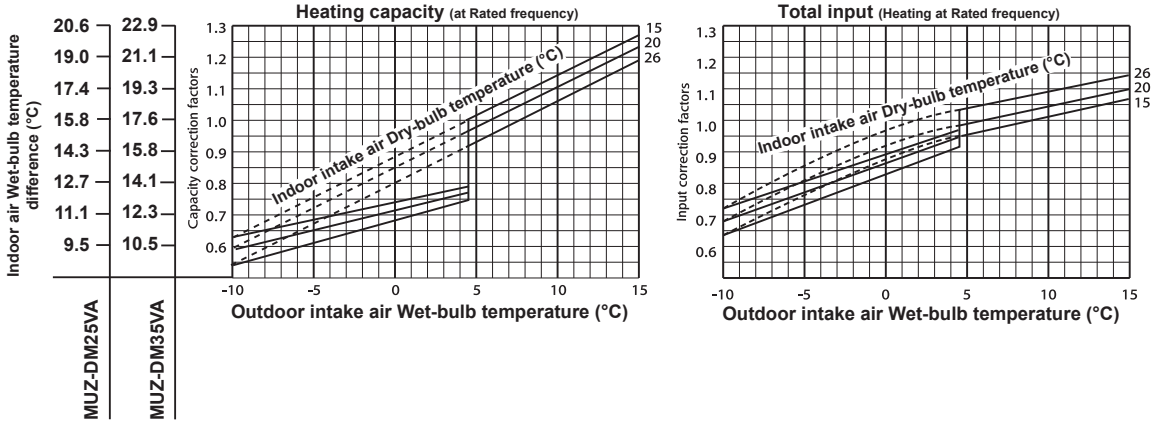
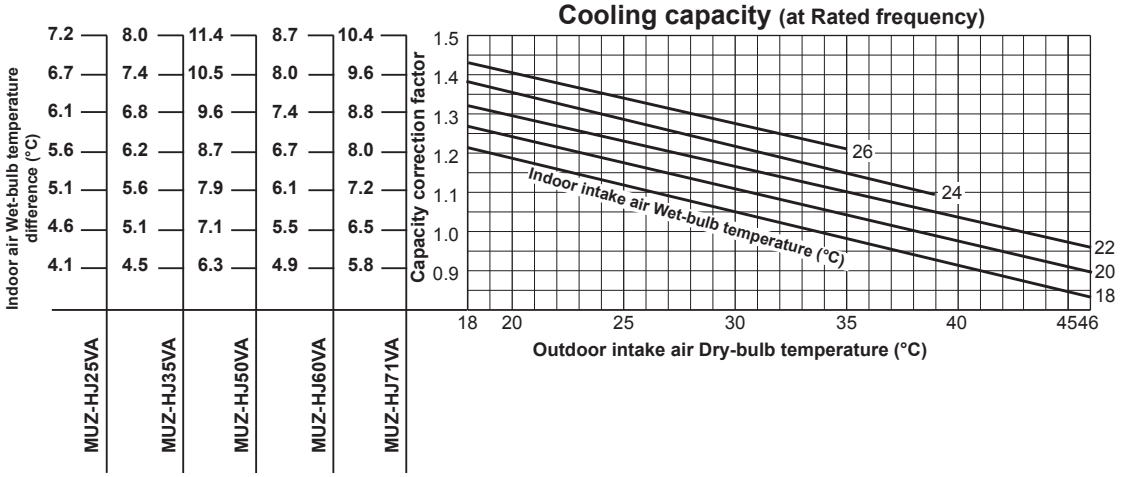




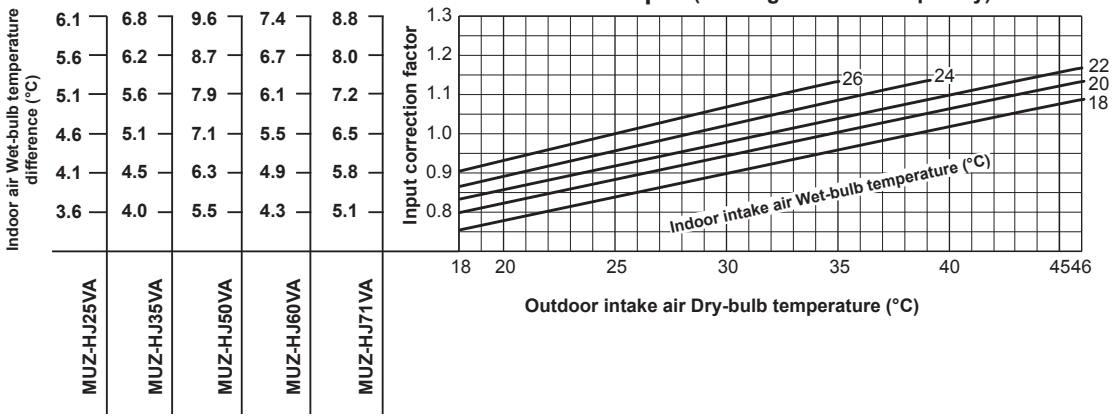


NOTE: The above broken lines are for the heating operation without any frost and defrost operation.

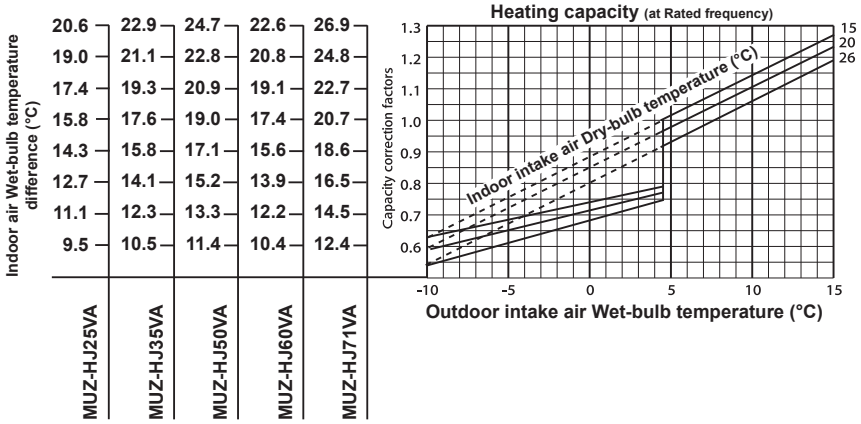
Cooling capacity (at Rated frequency)



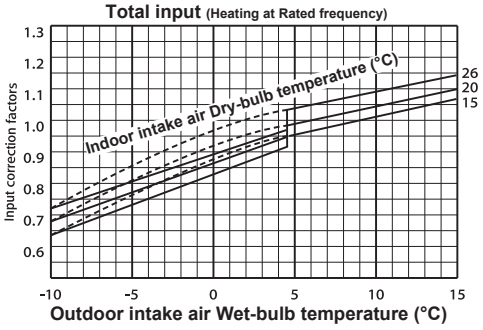
Total input (Cooling :at Rated frequency)



Heating capacity (at Rated frequency)



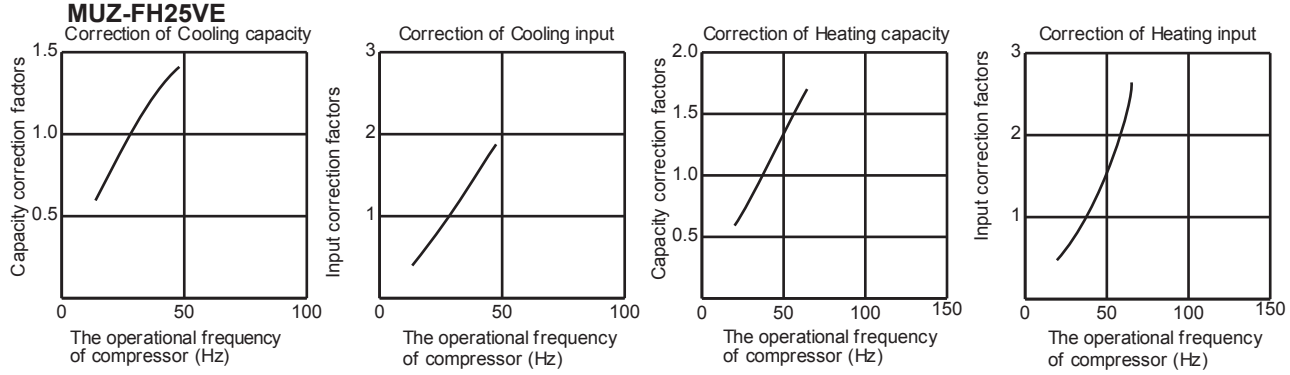
Total input (Heating at Rated frequency)



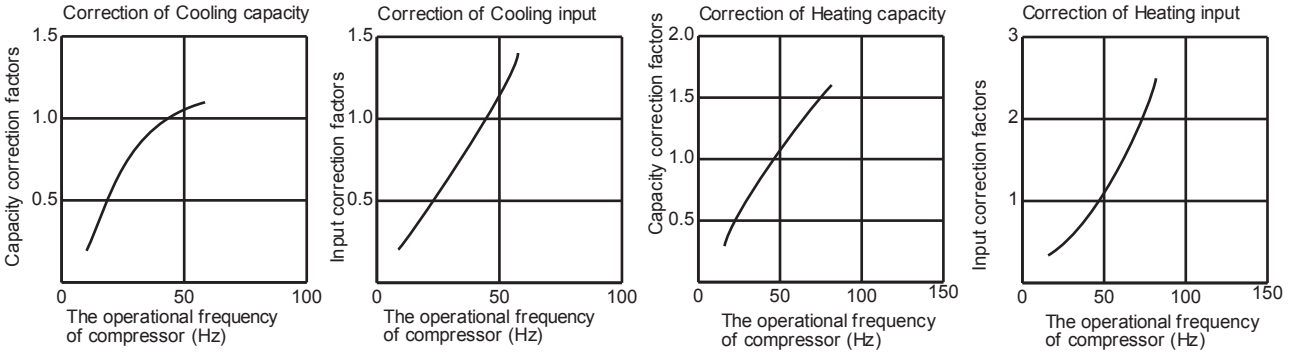
NOTE : The above broken lines are for the heating operation without any frost and defrost operation.

CAPACITY AND INPUT CORRECTION BY OPERATIONAL FREQUENCY OF COMPRESSOR

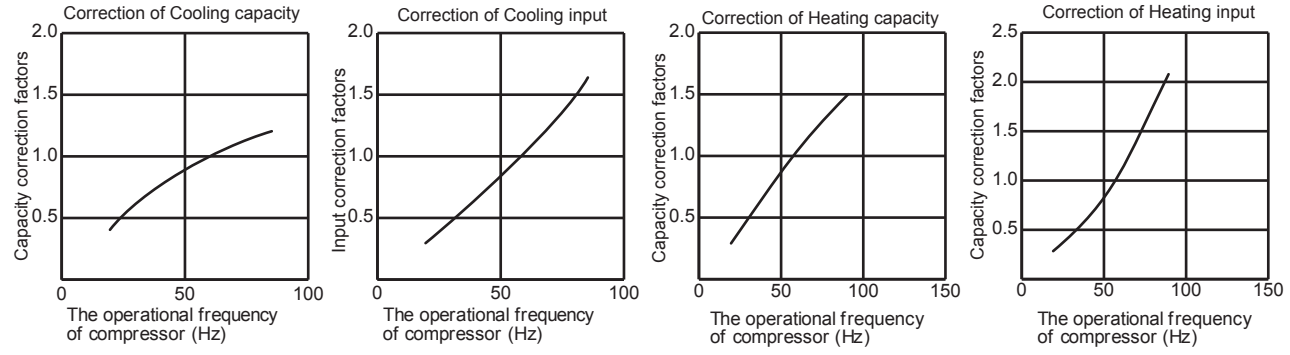
MUZ-FH25VE



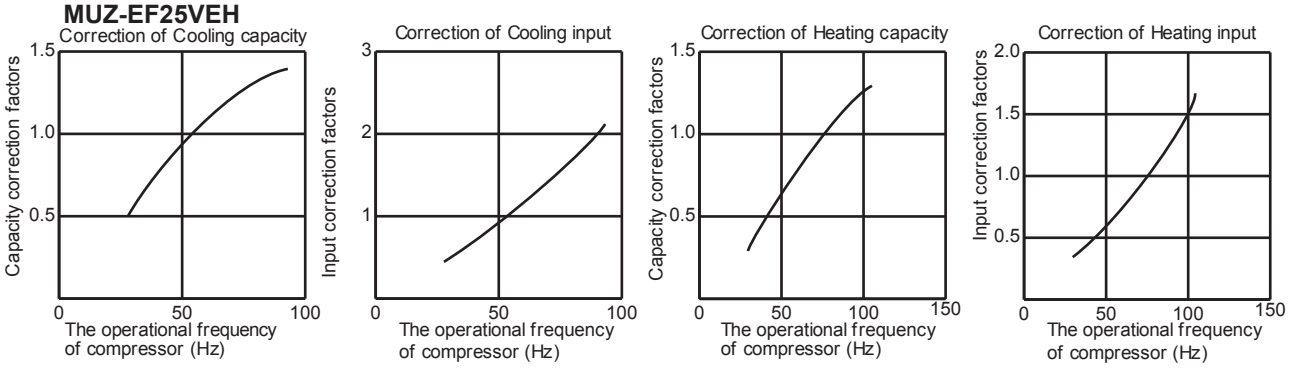
MUZ-FH35VE



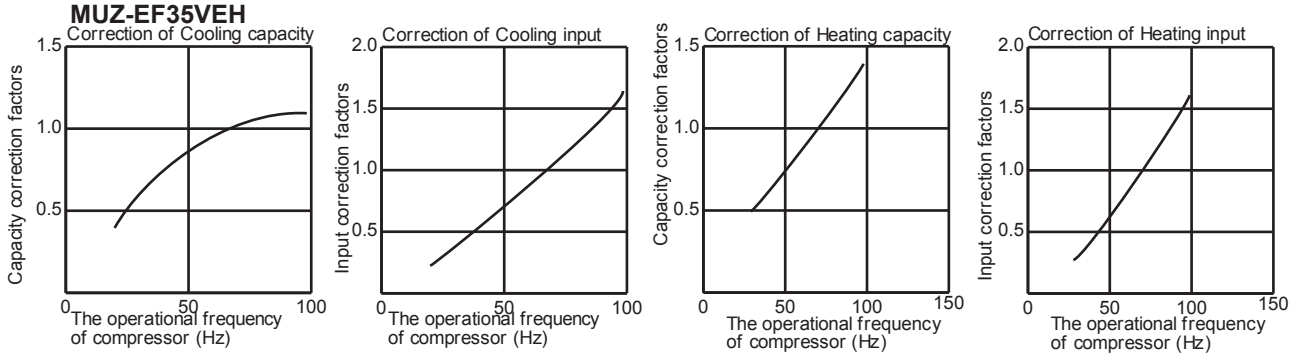
MUZ-FH50VE



MUZ-EF25VE
MUZ-EF25VEH



MUZ-EF35VE
MUZ-EF35VEH



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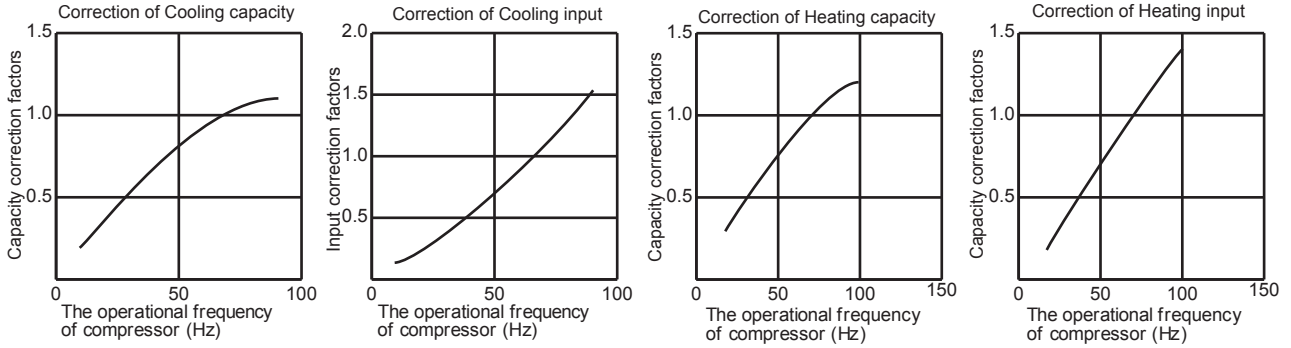

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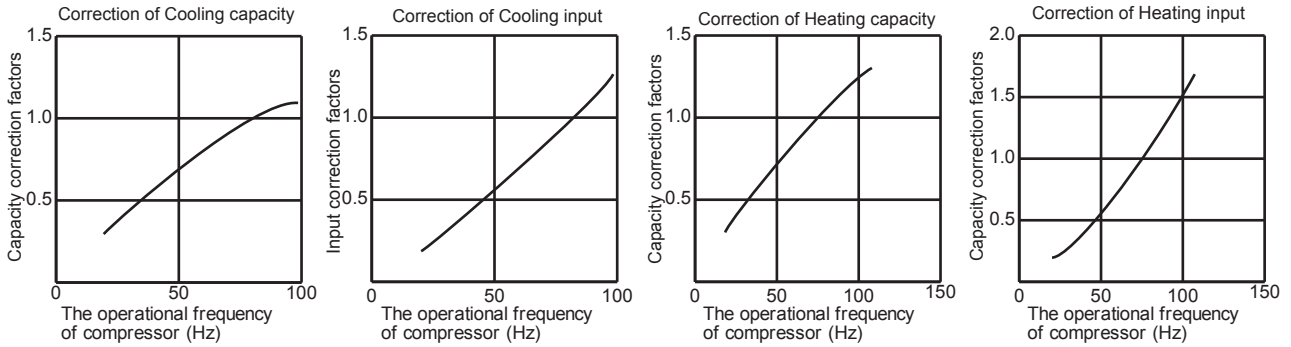

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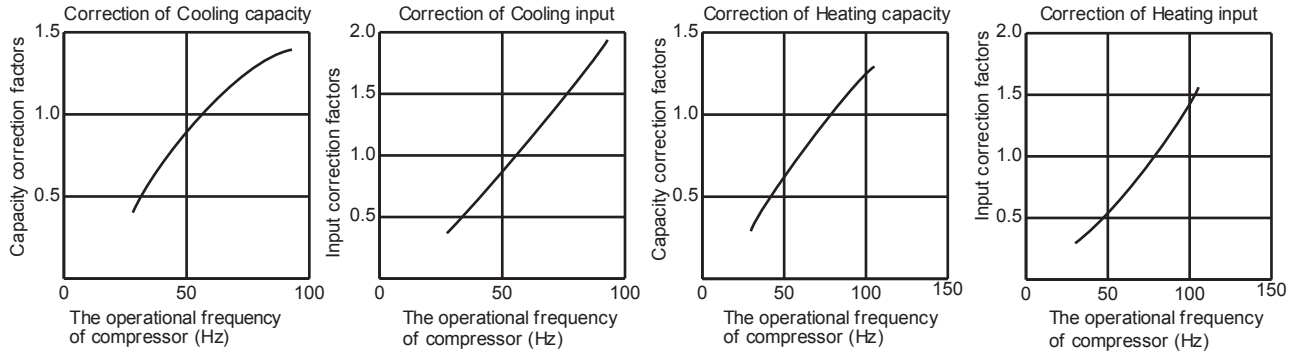

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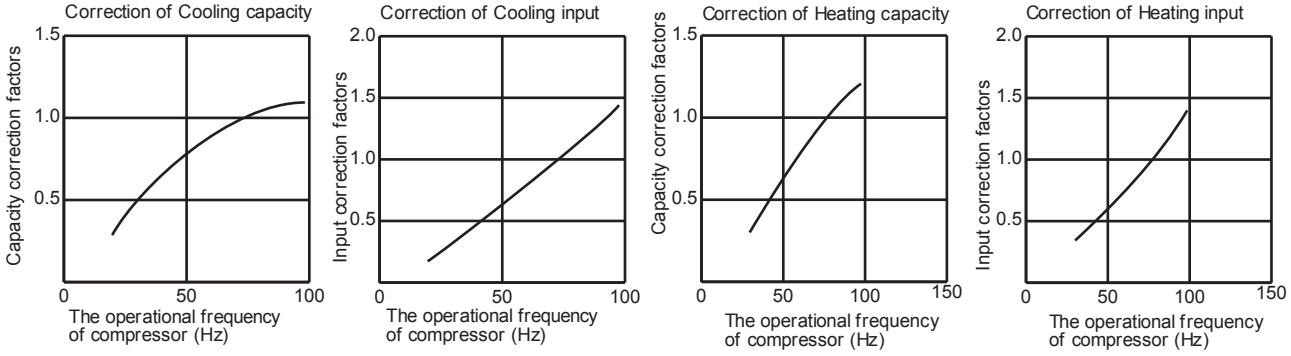

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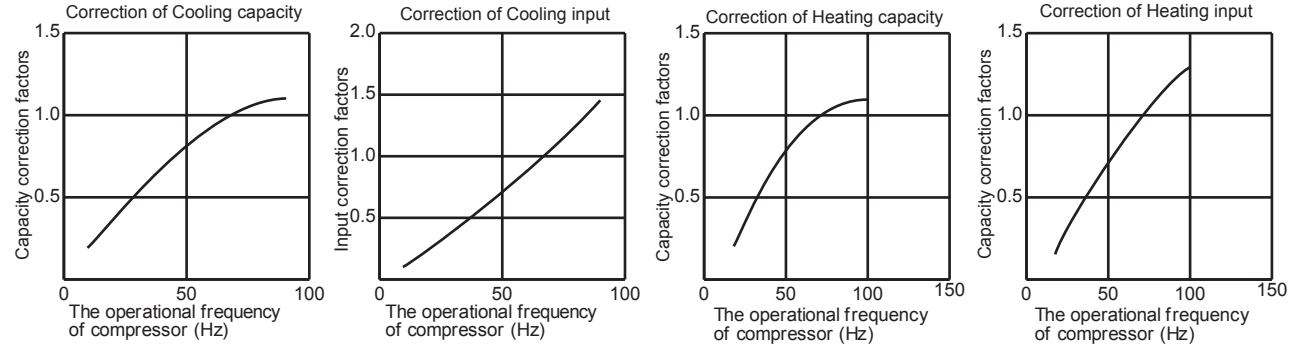

MUZ-SF50VE
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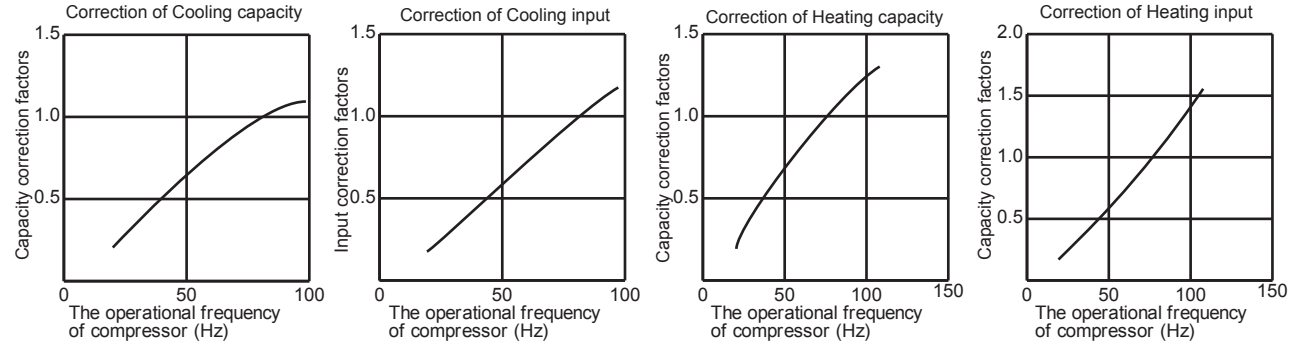

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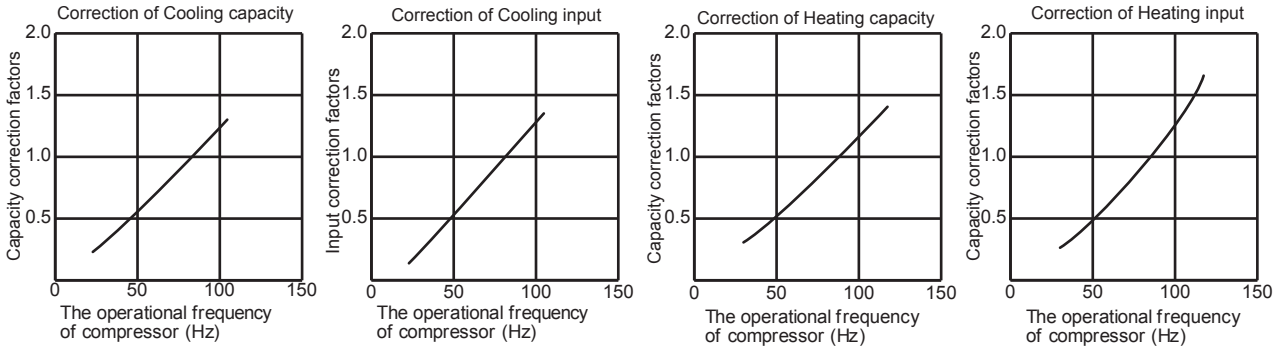

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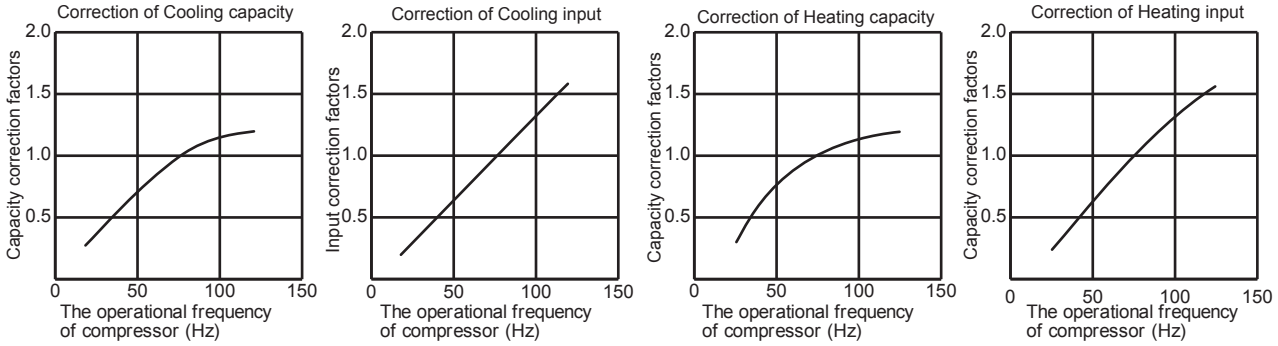
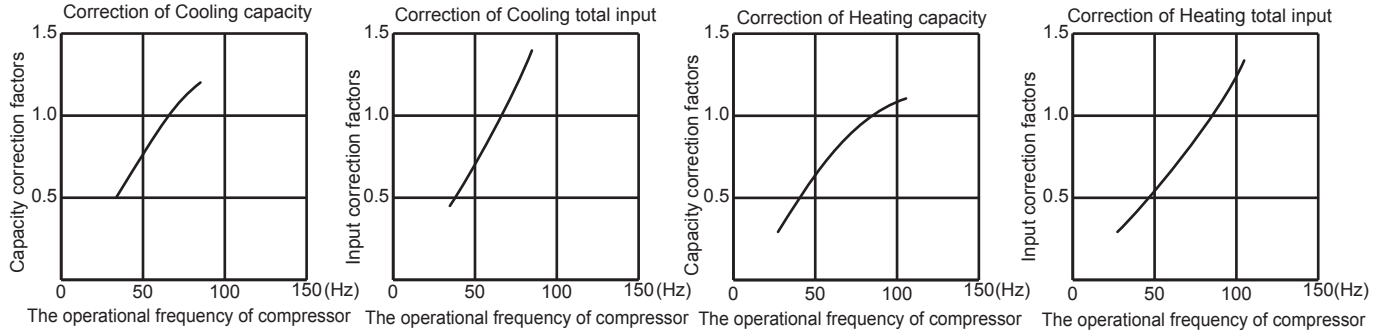


MUZ-DM25VA



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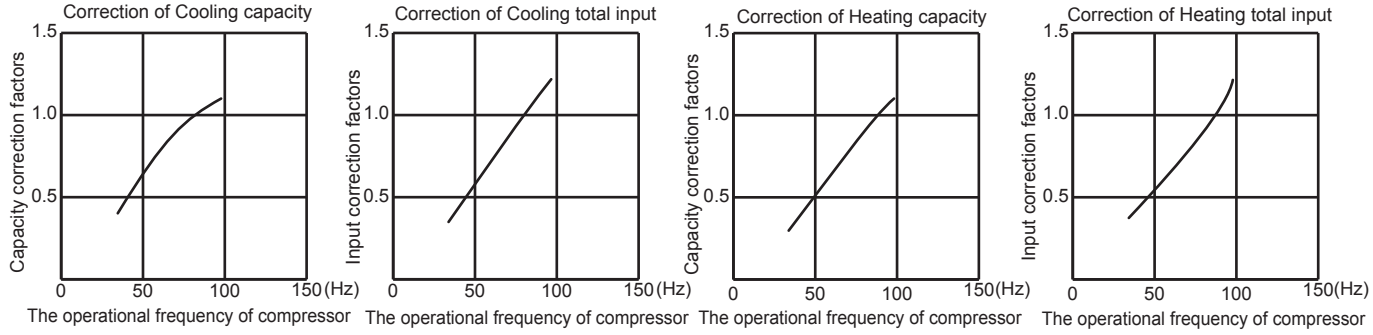

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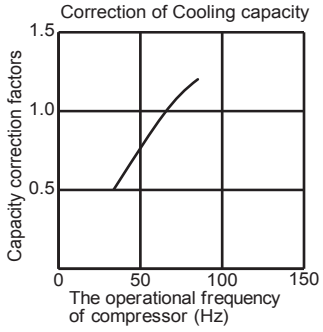

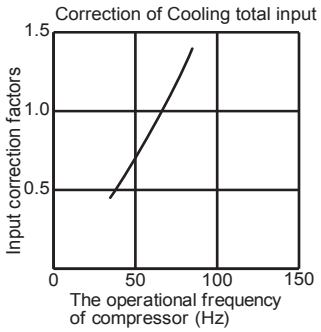

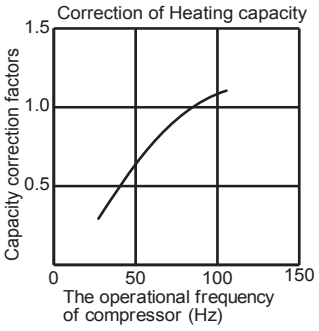

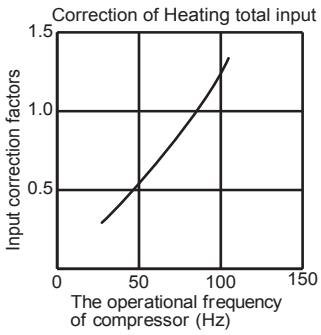

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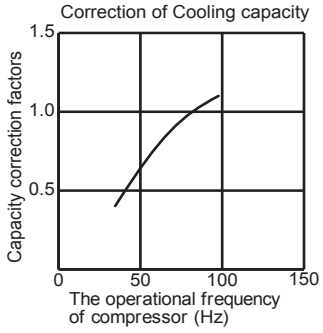

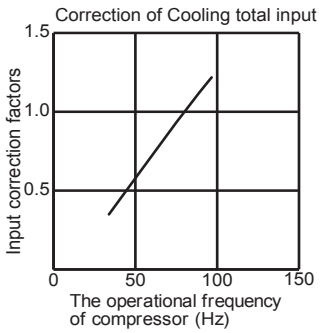

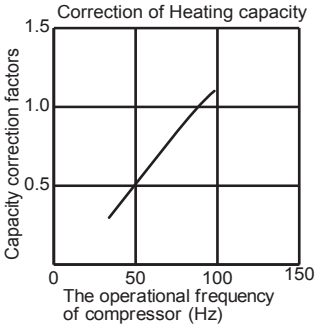

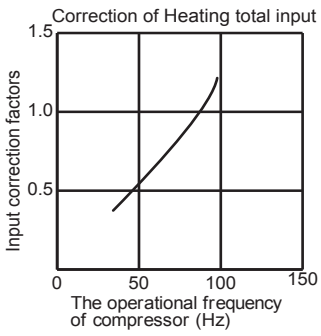

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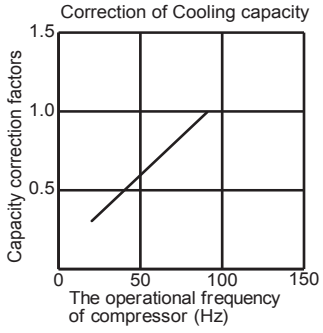

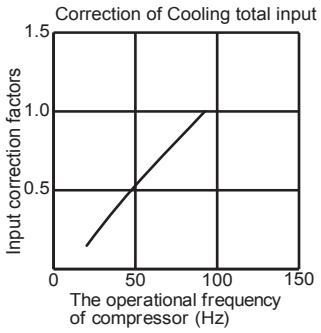

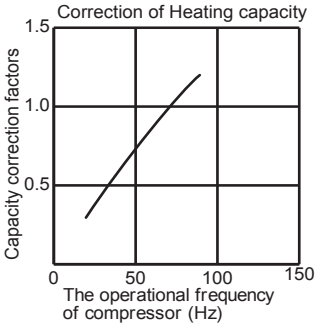

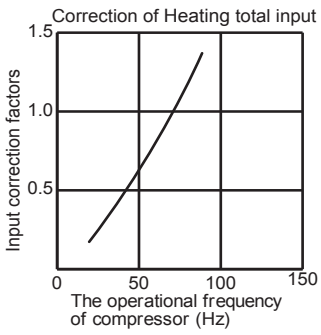

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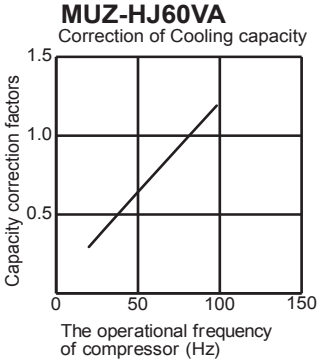

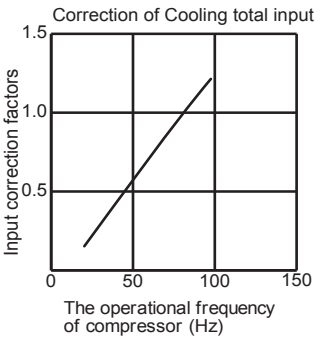

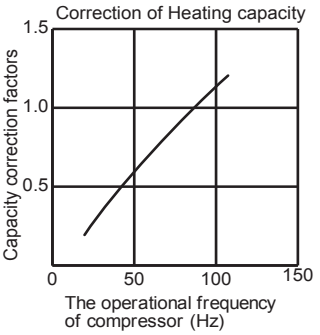

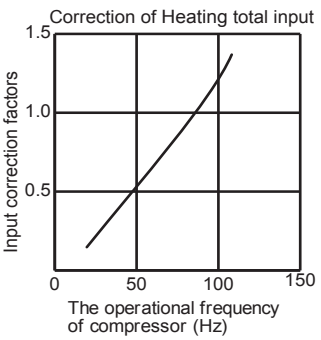

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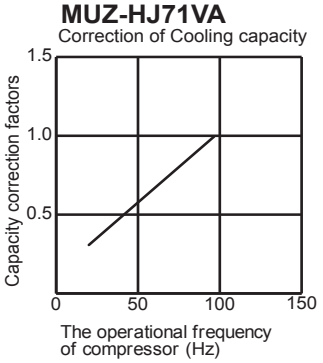
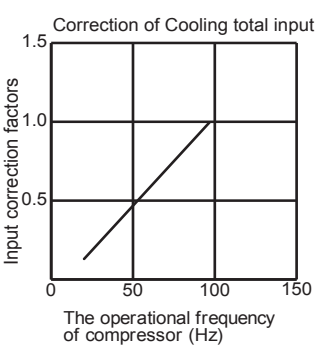
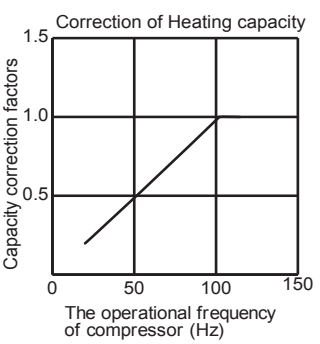
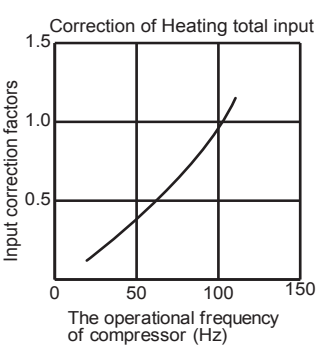
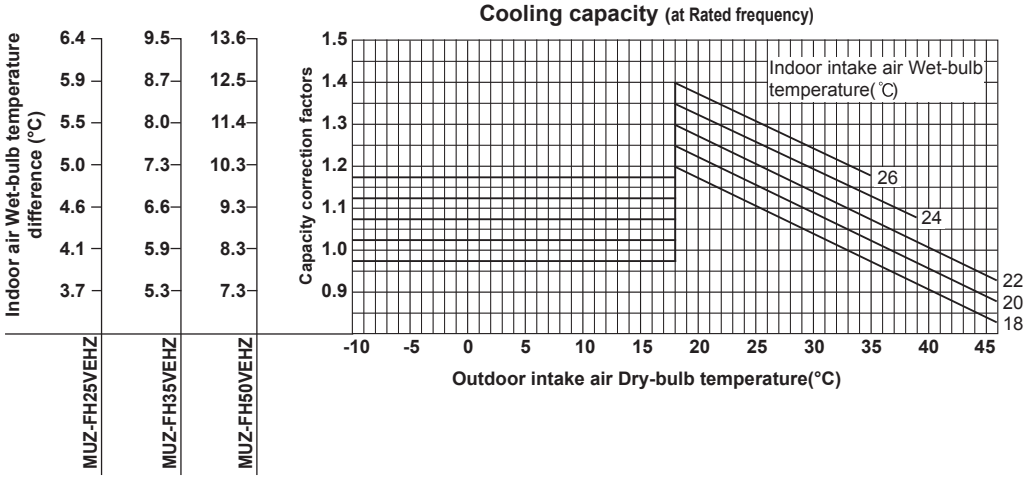


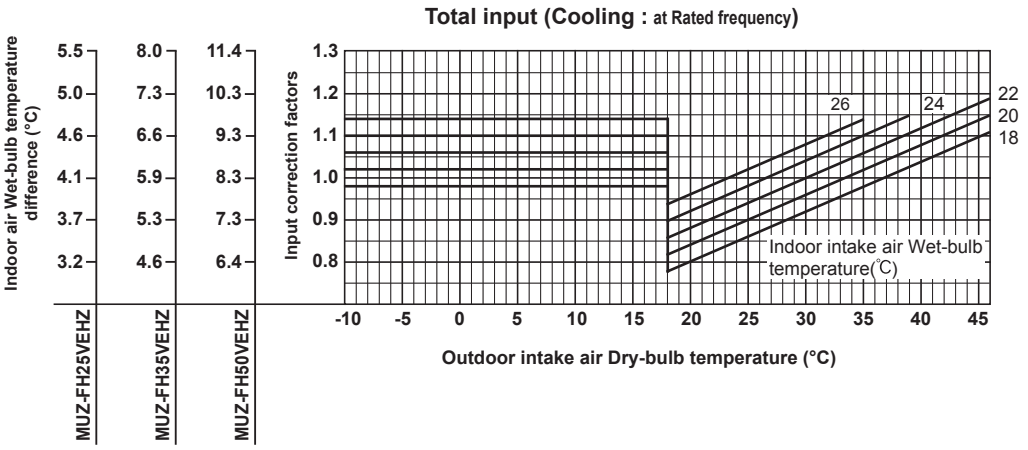






C.1.5.2 Powerful Heating Heat Pump
CAPACITY AND THE INPUT CURVES

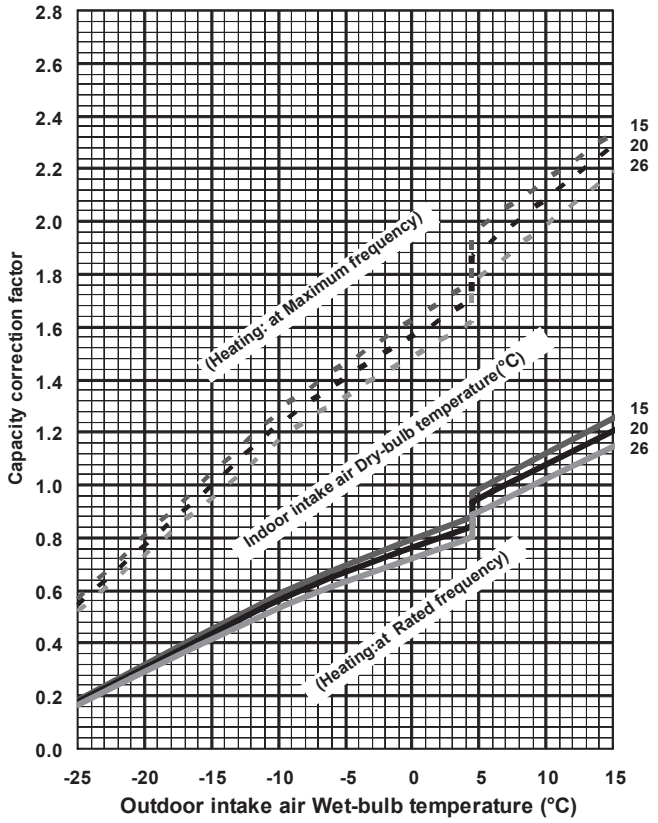




NOTE : The above broken lines are for the heating operation without any frost and defrost operation.

MUZ-FH25VEHZ

Heating capacity



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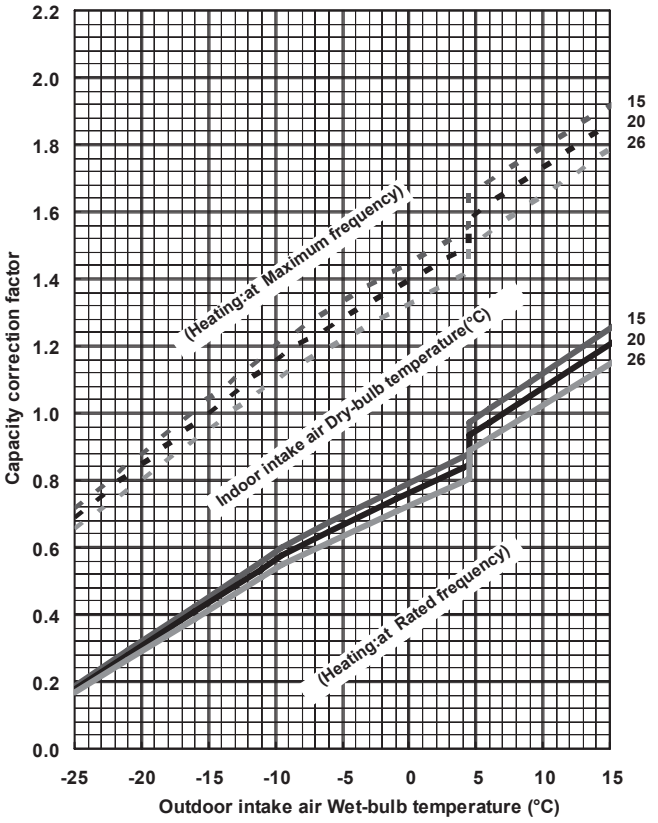

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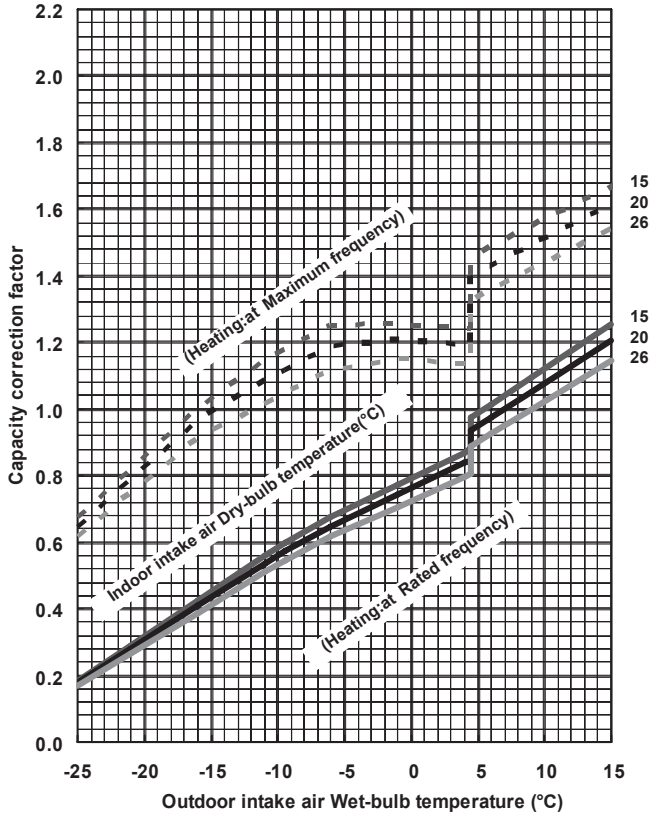
Heating capacity



NOTE : The above broken lines are for the heating operation without any frost and defrost operation.

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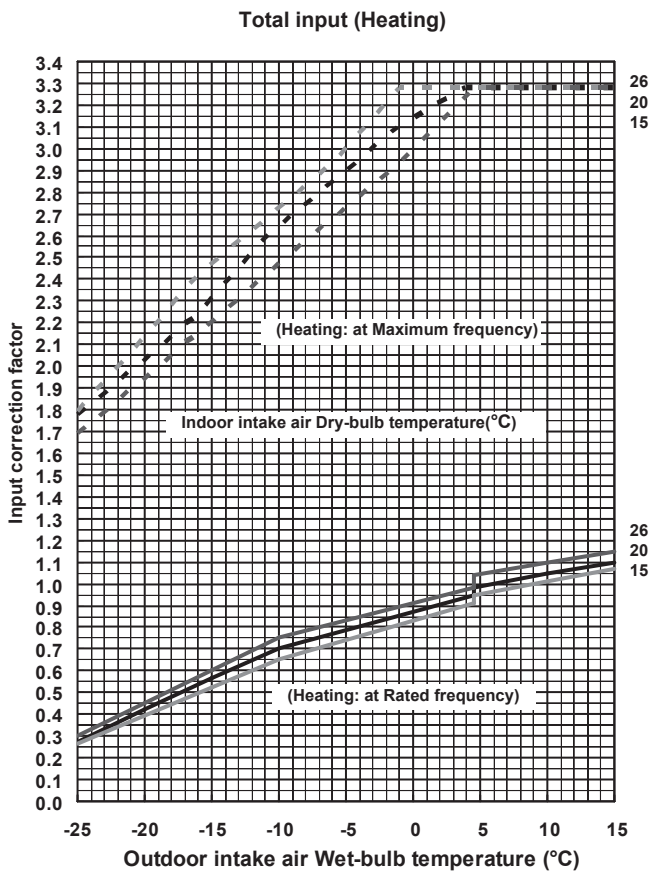

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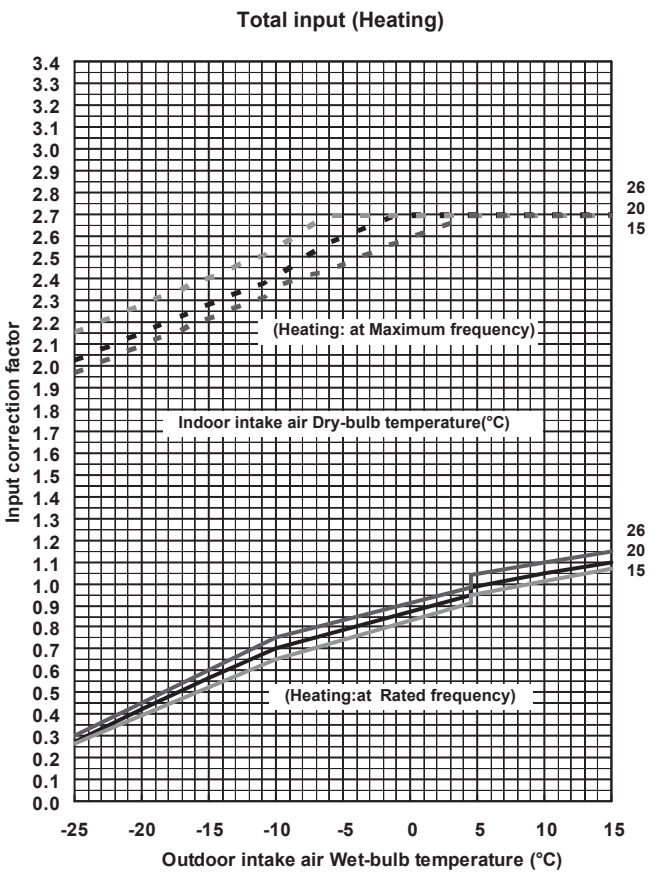

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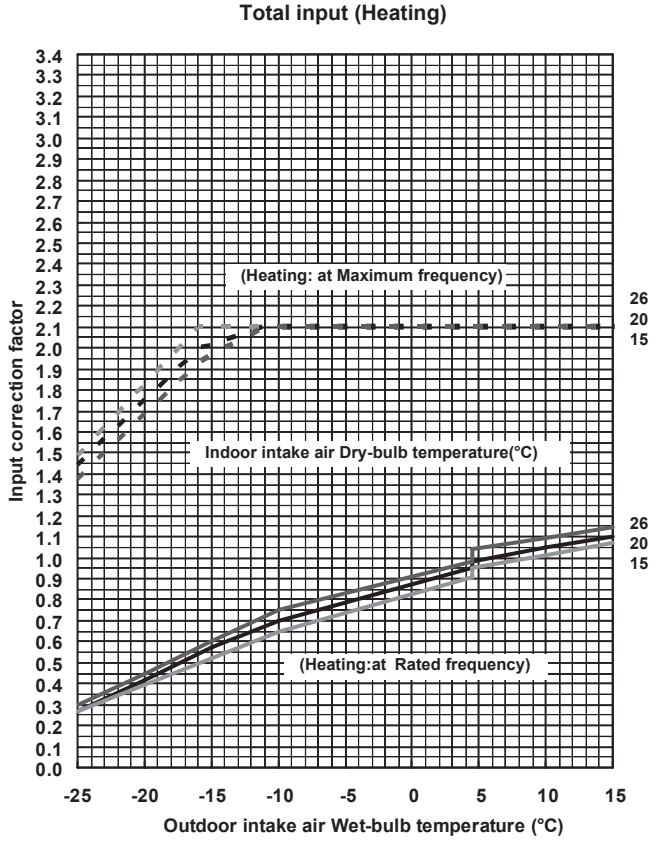

NOTE : The above broken lines are for the heating operation without any frost and defrost operation.

CAPACITY AND INPUT CORRECTION BY OPERATIONAL FREQUENCY OF COMPRESSOR

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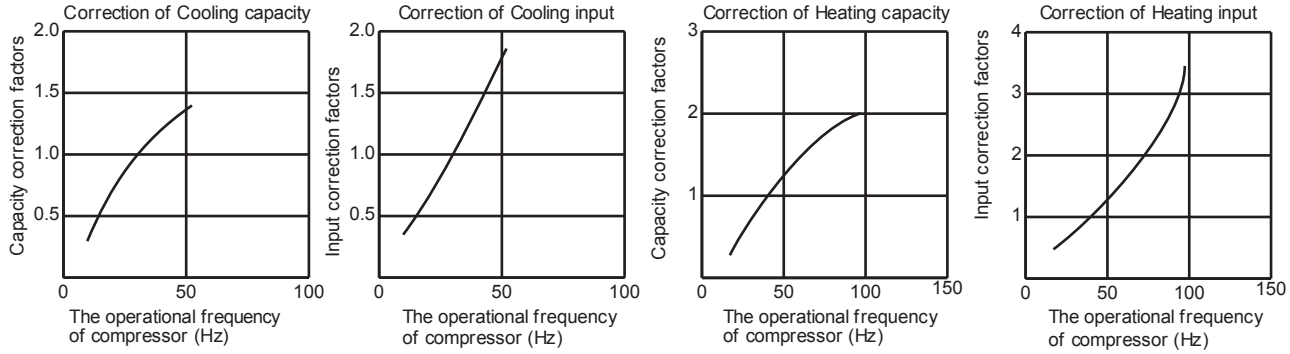

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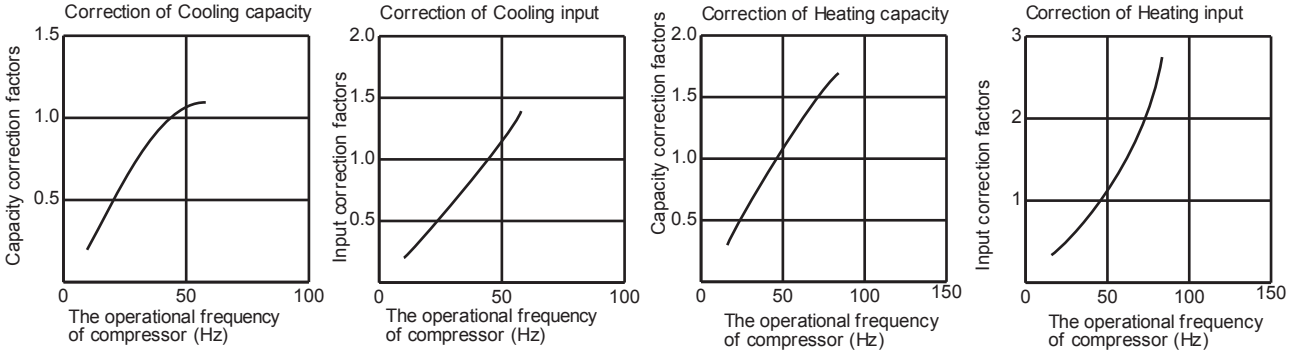

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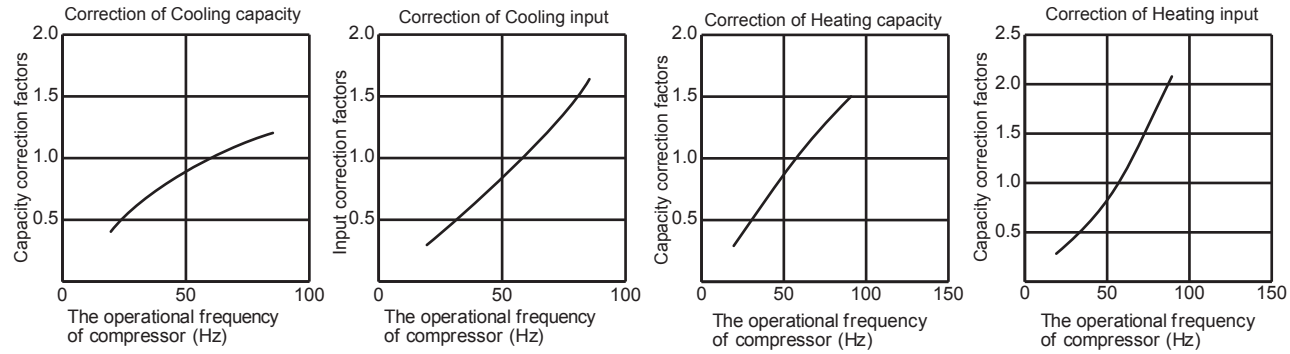


C.1.5.3 Inverter Heat Pump/Powerful Heating Heat Pump
HOW TO OPERATE FIXED-FREQUENCY OPERATION

<Test run operation>

1. Press EMERGENCY OPERATION switch to COOL or HEAT mode (COOL : Press once, HEAT : Press twice).
2. Test run operation starts and continues to operate for 30 minutes.
3. Compressor operates at rated frequency in COOL mode or 58Hz in HEAT mode.
4. Indoor fan operates at High speed.
5. After 30 minutes, test run operation finishes and EMERGENCY OPERATION starts (Operation frequency of compressor varies).
6. To cancel test run operation (EMERGENCY OPERATION), press EMERGENCY OPERATION switch or any button on remote controller.

OUTDOOR LOW PRESSURE AND OUTDOOR UNIT CURRENT

COOL operation

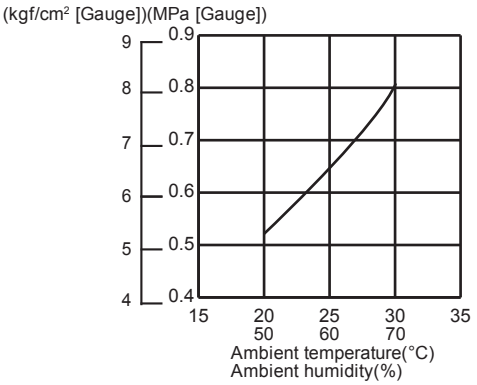
Dry-bulb temperature (°C)	Relative humidity (%)
20	50
25	60
30	70

① Both indoor and outdoor unit are under the same temperature/humidity condition.

② Operation : TEST RUN OPERATION

③ The unit of pressure has been changed to MPa on the international system of units (SI unit system)
The conversion factor is: **1 (MPa [Gauge]) = 10.2 (kgf/cm^2 [Gauge])**

MUZ-FH25VE



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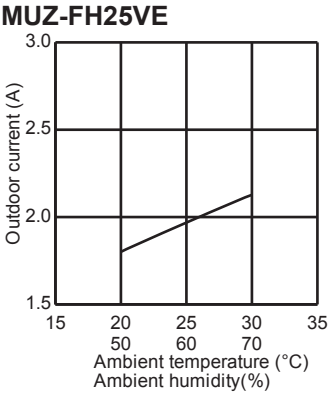

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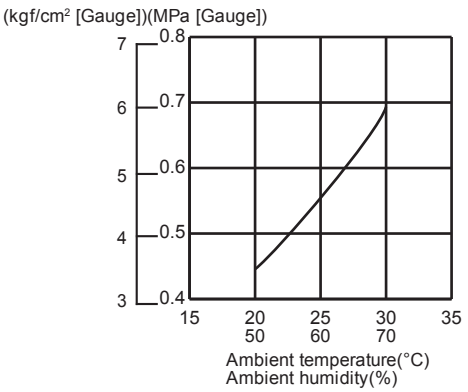

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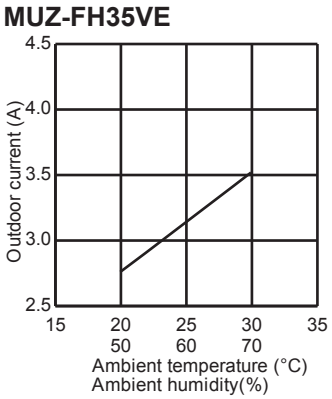

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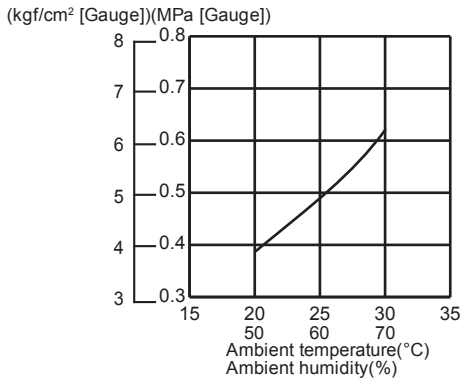

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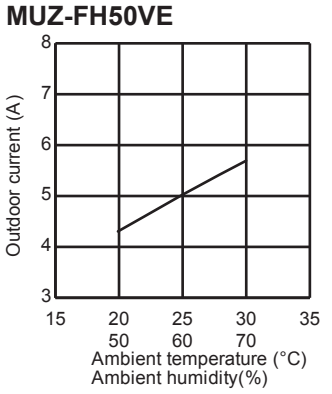

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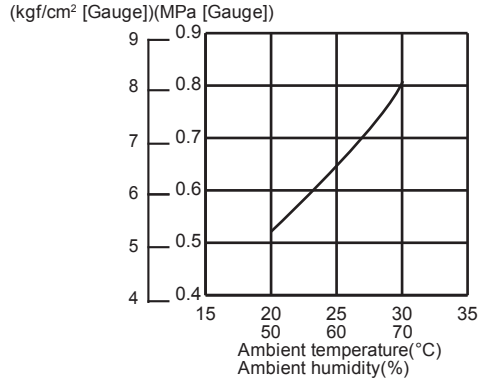

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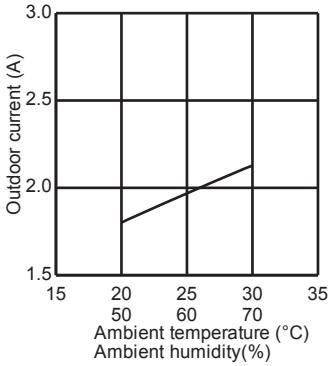

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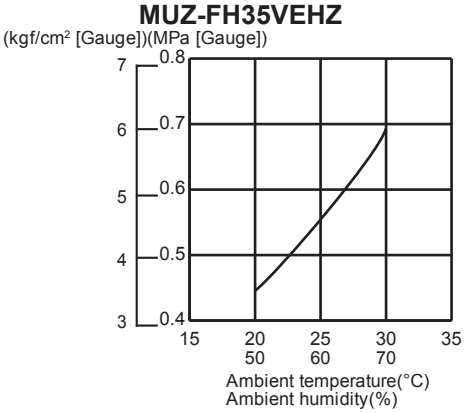

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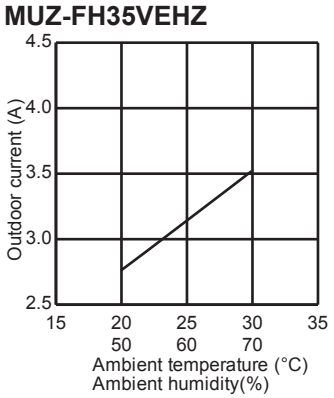

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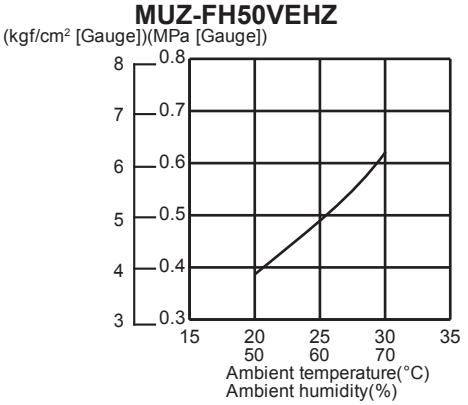

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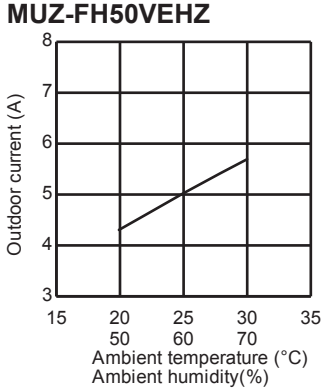

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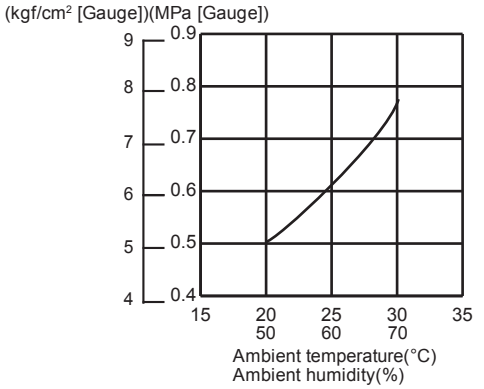

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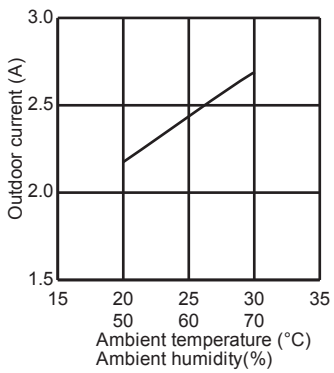

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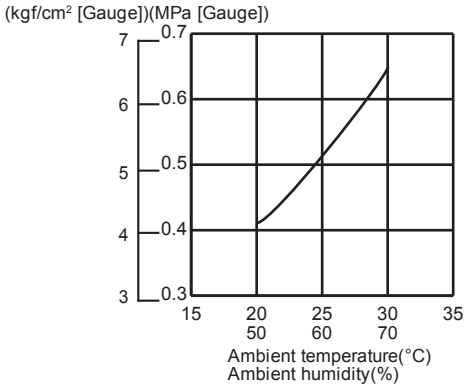

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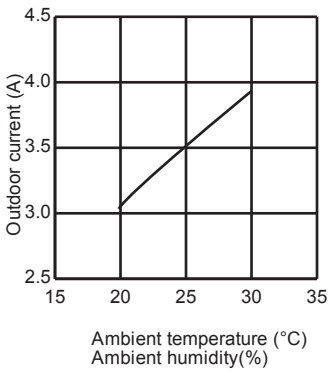

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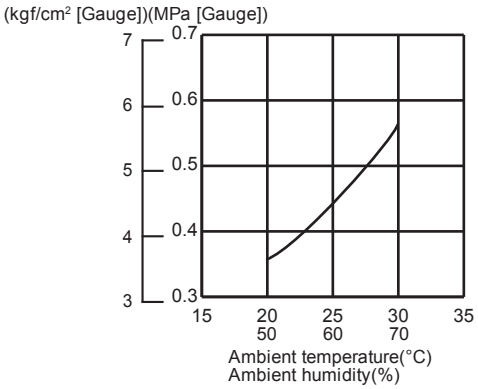

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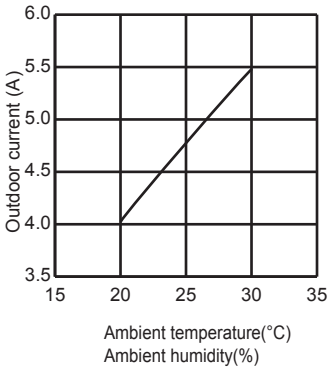

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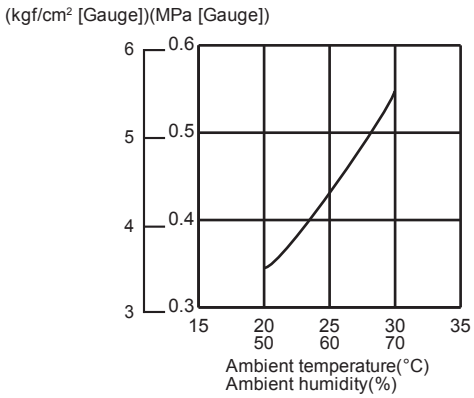

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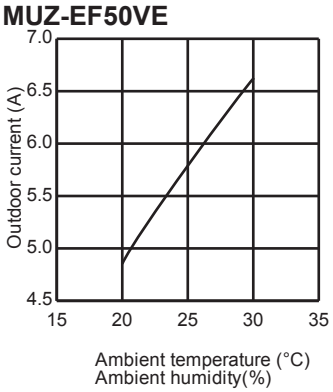

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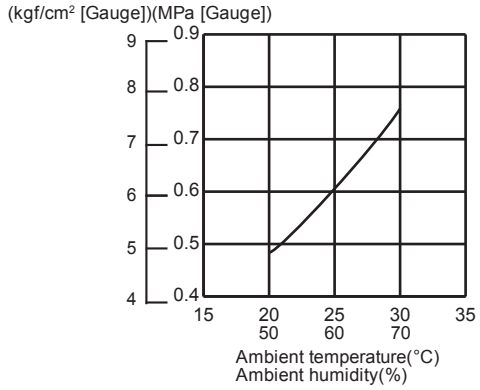

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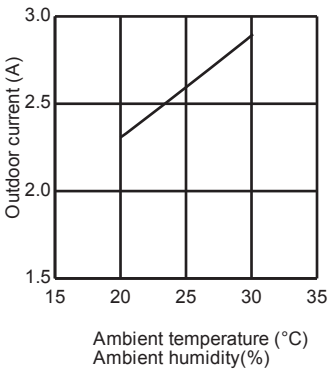

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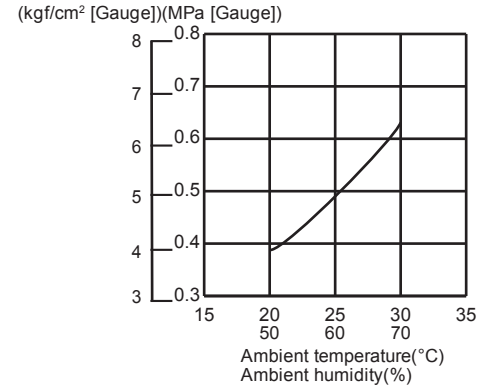

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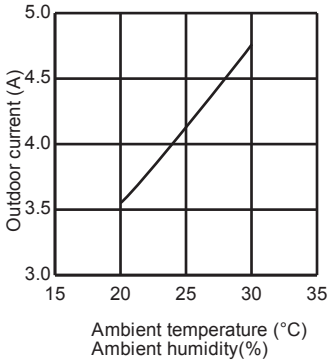

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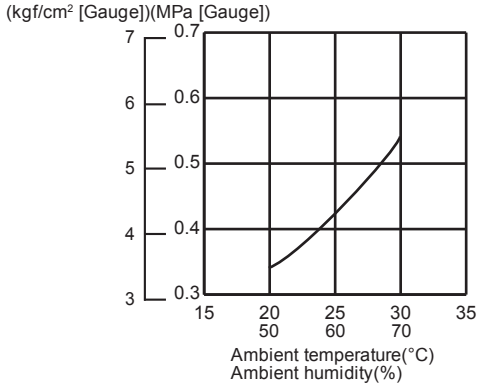

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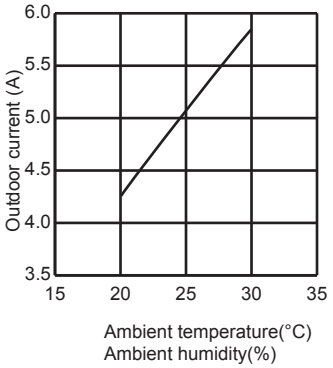

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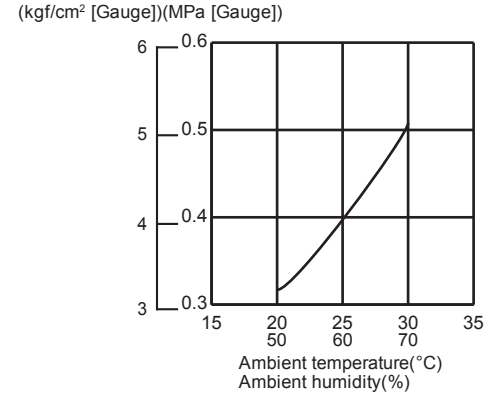

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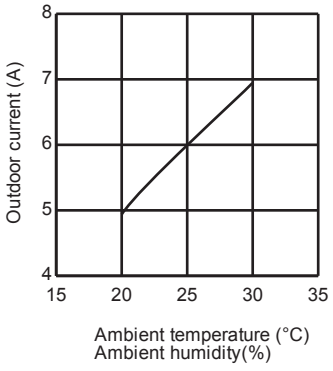

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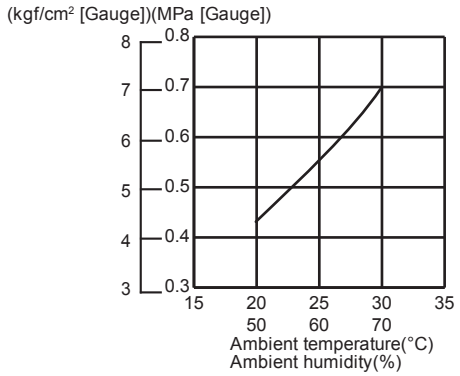

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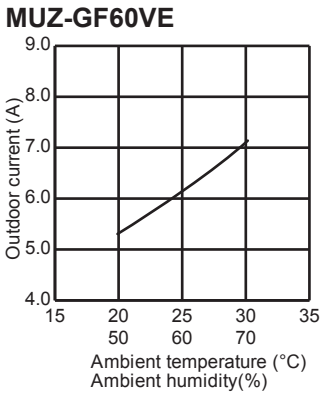

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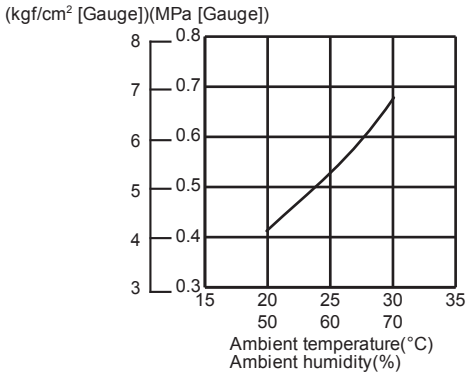

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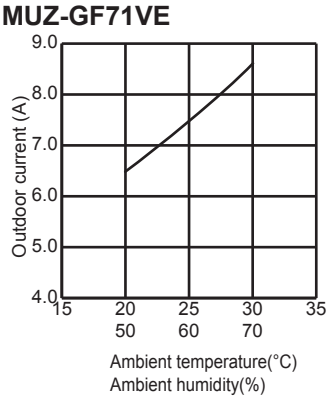

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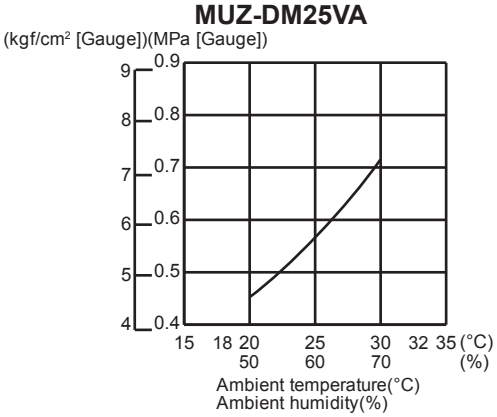

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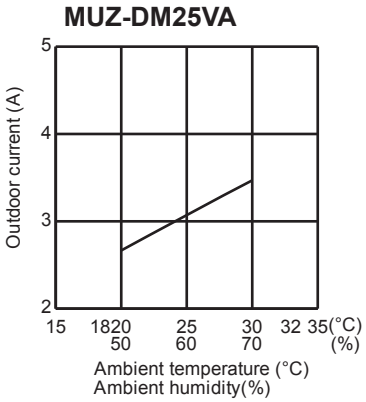

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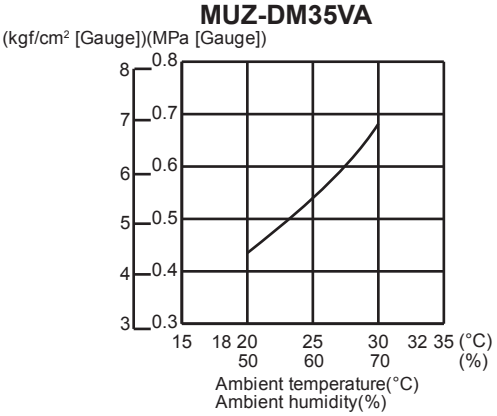

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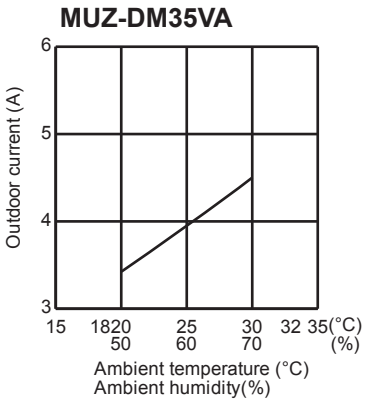

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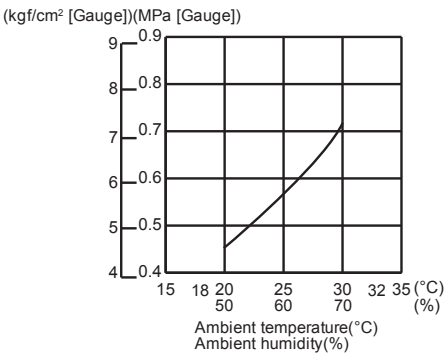

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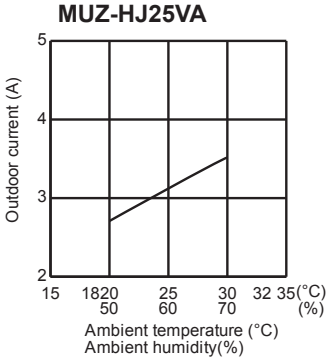

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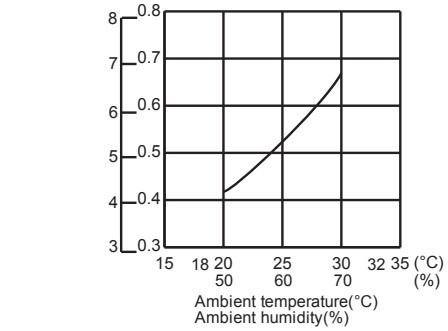

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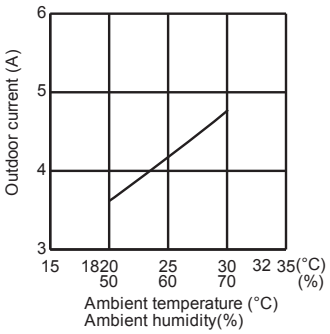

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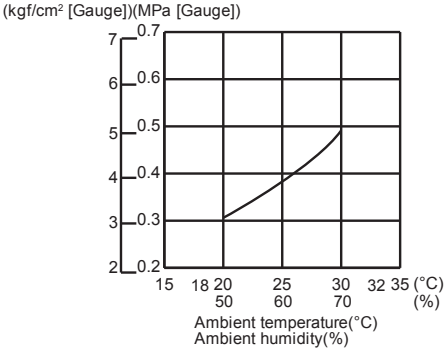

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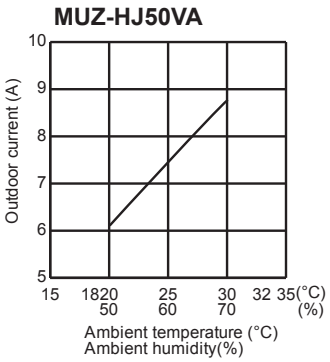

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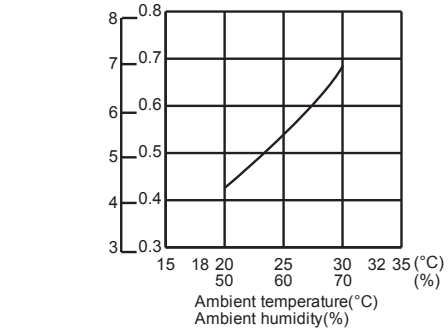

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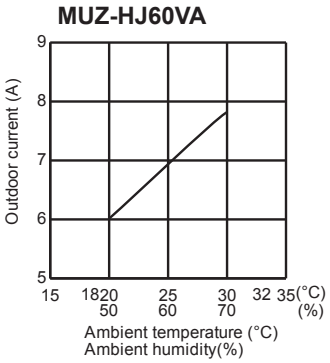

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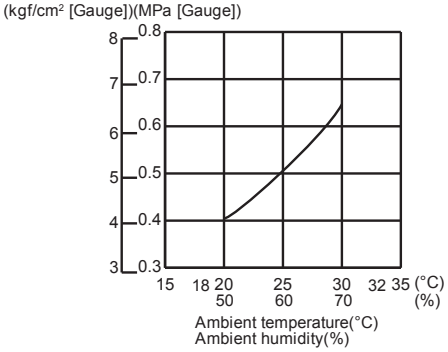

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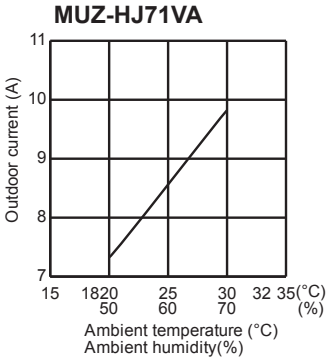


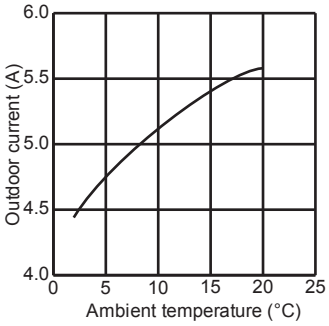
HEAT operation

① Condition :

	Indoor	Outdoor			
Dry bulb temperature (°C)	20.0	2	7	15	20.0
Wet bulb temperature (°C)	14.5	1	6	12	14.5

② Operation : TEST RUN OPERATION

MUZ-FH25VE



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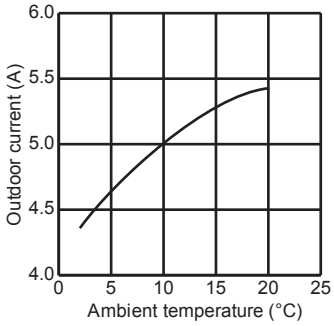

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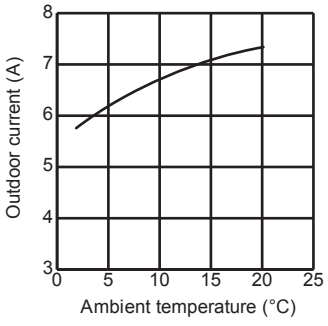

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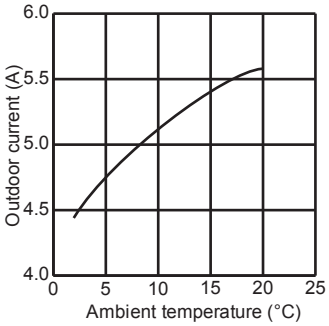

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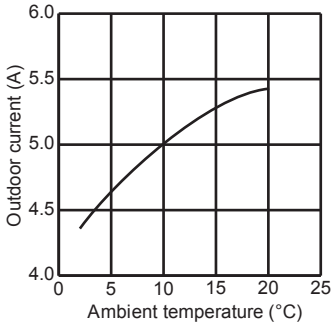

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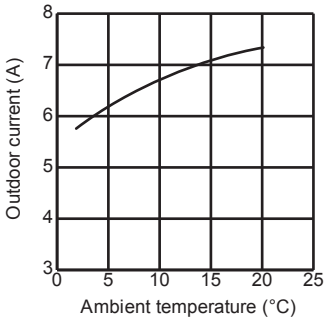

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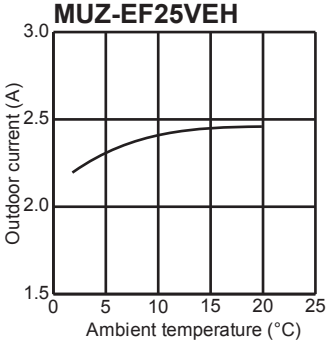

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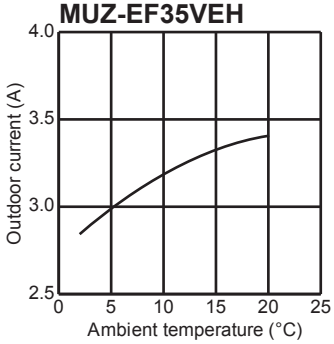

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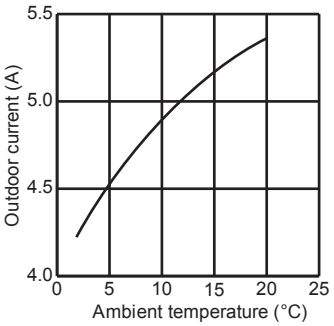

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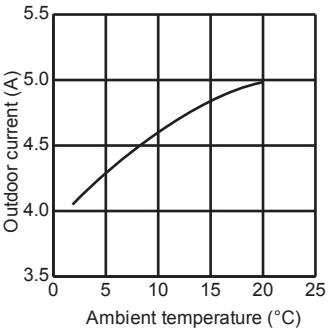

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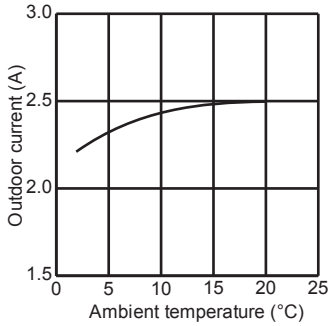

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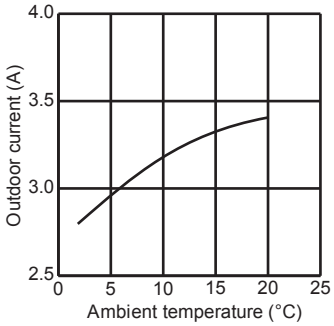

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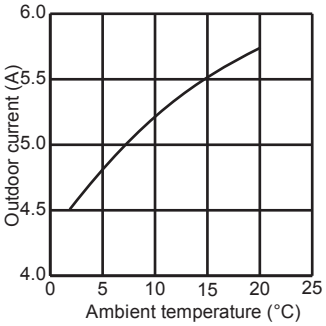

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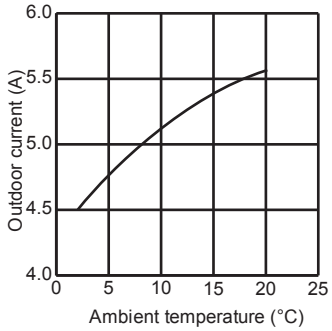

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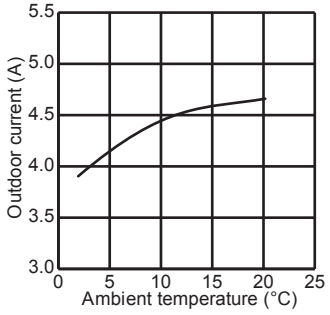

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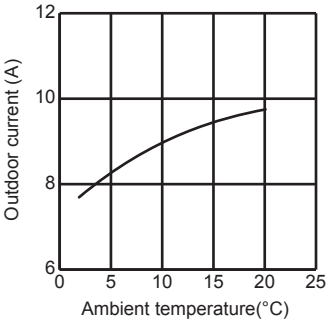

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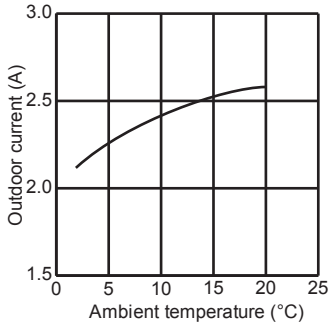

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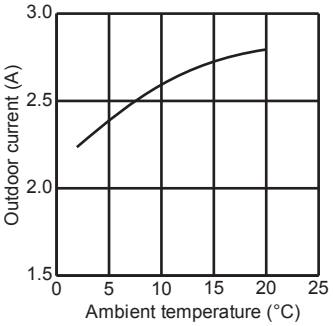

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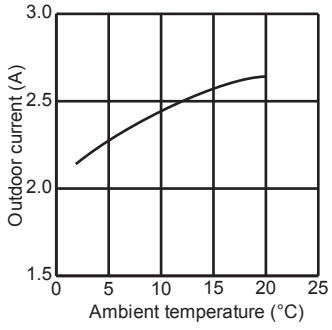

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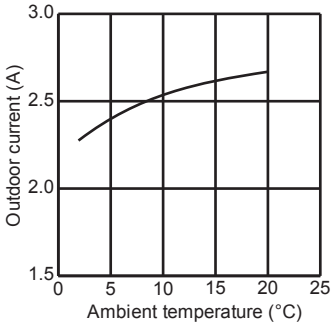

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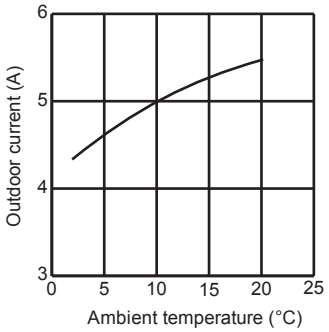

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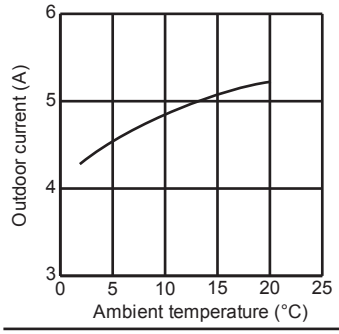

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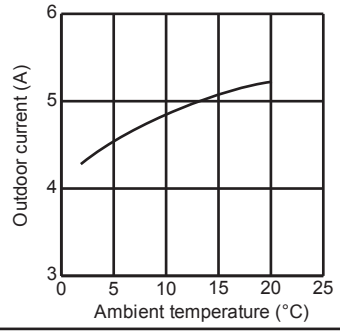


C.1.6 PERFORMANCE DATA

C.1.6.1 Inverter Heat Pump

PERFORMANCE CURVES COOL operation at Rated frequency

MSZ-FH25VE2: MUZ-FH25VE

CAPACITY: 2.5 kW SHF: 0.95 INPUT: 485 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)															
		21				25				27				30			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	2.94	2.26	0.77	388	2.81	2.17	0.77	407	2.70	2.08	0.77	427	2.60	2.00	0.77	446
21	20	3.06	1.99	0.65	407	2.94	1.91	0.65	432	2.85	1.85	0.65	441	2.75	1.79	0.65	461
22	18	2.94	2.38	0.81	388	2.81	2.28	0.81	407	2.70	2.19	0.81	427	2.60	2.11	0.81	446
22	20	3.06	2.11	0.69	407	2.94	2.03	0.69	432	2.85	1.97	0.69	441	2.75	1.90	0.69	461
22	22	3.19	1.82	0.57	422	3.08	1.75	0.57	449	3.00	1.71	0.57	461	2.88	1.64	0.57	480
23	18	2.94	2.50	0.85	388	2.81	2.39	0.85	407	2.70	2.30	0.85	427	2.60	2.21	0.85	446
23	20	3.06	2.24	0.73	407	2.94	2.14	0.73	432	2.85	2.08	0.73	441	2.75	2.01	0.73	461
23	22	3.19	1.94	0.61	422	3.08	1.88	0.61	449	3.00	1.83	0.61	461	2.88	1.75	0.61	480
24	18	2.94	2.61	0.89	388	2.81	2.50	0.89	407	2.70	2.40	0.89	427	2.60	2.31	0.89	446
24	20	3.06	2.36	0.77	407	2.94	2.26	0.77	432	2.85	2.19	0.77	441	2.75	2.12	0.77	461
24	22	3.19	2.07	0.65	422	3.08	2.00	0.65	449	3.00	1.95	0.65	461	2.88	1.87	0.65	480
24	24	3.35	1.78	0.53	441	3.23	1.71	0.53	466	3.15	1.67	0.53	480	3.05	1.62	0.53	504
25	18	2.94	2.73	0.93	388	2.81	2.62	0.93	407	2.70	2.51	0.93	427	2.60	2.42	0.93	446
25	20	3.06	2.48	0.81	407	2.94	2.38	0.81	432	2.85	2.31	0.81	441	2.75	2.23	0.81	461
25	22	3.19	2.20	0.69	422	3.08	2.12	0.69	449	3.00	2.07	0.69	461	2.88	1.98	0.69	480
25	24	3.35	1.91	0.57	441	3.23	1.84	0.57	466	3.15	1.80	0.57	480	3.05	1.74	0.57	504
26	18	2.94	2.85	0.97	388	2.81	2.73	0.97	407	2.70	2.62	0.97	427	2.60	2.52	0.97	446
26	20	3.06	2.60	0.85	407	2.94	2.50	0.85	432	2.85	2.42	0.85	441	2.75	2.34	0.85	461
26	22	3.19	2.33	0.73	422	3.08	2.24	0.73	449	3.00	2.19	0.73	461	2.88	2.10	0.73	480
26	24	3.35	2.04	0.61	441	3.23	1.97	0.61	466	3.15	1.92	0.61	480	3.05	1.86	0.61	504
26	26	3.45	1.69	0.49	466	3.35	1.64	0.49	490	3.30	1.62	0.49	504	3.20	1.57	0.49	519
27	18	2.94	2.94	1.00	388	2.81	2.81	1.00	407	2.70	2.70	1.00	427	2.60	2.60	1.00	446
27	20	3.06	2.73	0.89	407	2.94	2.61	0.89	432	2.85	2.54	0.89	441	2.75	2.45	0.89	461
27	22	3.19	2.45	0.77	422	3.08	2.37	0.77	449	3.00	2.31	0.77	461	2.88	2.21	0.77	480
27	24	3.35	2.18	0.65	441	3.23	2.10	0.65	466	3.15	2.05	0.65	480	3.05	1.98	0.65	504
27	26	3.45	1.83	0.53	466	3.35	1.78	0.53	490	3.30	1.75	0.53	504	3.20	1.70	0.53	519
28	18	2.94	2.94	1.00	388	2.81	2.81	1.00	407	2.70	2.70	1.00	427	2.60	2.60	1.00	446
28	20	3.06	2.85	0.93	407	2.94	2.73	0.93	432	2.85	2.65	0.93	441	2.75	2.56	0.93	461
28	22	3.19	2.58	0.81	422	3.08	2.49	0.81	449	3.00	2.43	0.81	461	2.88	2.33	0.81	480
28	24	3.35	2.31	0.69	441	3.23	2.23	0.69	466	3.15	2.17	0.69	480	3.05	2.10	0.69	504
28	26	3.45	1.97	0.57	466	3.35	1.91	0.57	490	3.30	1.88	0.57	504	3.20	1.82	0.57	519
29	18	2.94	2.94	1.00	388	2.81	2.81	1.00	407	2.70	2.70	1.00	427	2.60	2.60	1.00	446
29	20	3.06	2.97	0.97	407	2.94	2.85	0.97	432	2.85	2.76	0.97	441	2.75	2.67	0.97	461
29	22	3.19	2.71	0.85	422	3.08	2.61	0.85	449	3.00	2.55	0.85	461	2.88	2.44	0.85	480
29	24	3.35	2.45	0.73	441	3.23	2.35	0.73	466	3.15	2.30	0.73	480	3.05	2.23	0.73	504
29	26	3.45	2.10	0.61	466	3.35	2.04	0.61	490	3.30	2.01	0.61	504	3.20	1.95	0.61	519
30	18	2.94	2.94	1.00	388	2.81	2.81	1.00	407	2.70	2.70	1.00	427	2.60	2.60	1.00	446
30	20	3.06	3.06	1.00	407	2.94	2.94	1.00	432	2.85	2.85	1.00	441	2.75	2.75	1.00	461
30	22	3.19	2.84	0.89	422	3.08	2.74	0.89	449	3.00	2.67	0.89	461	2.88	2.56	0.89	480
30	24	3.35	2.58	0.77	441	3.23	2.48	0.77	466	3.15	2.43	0.77	480	3.05	2.35	0.77	504
30	26	3.45	2.24	0.65	466	3.35	2.18	0.65	490	3.30	2.15	0.65	504	3.20	2.08	0.65	519
31	18	2.94	2.94	1.00	388	2.81	2.81	1.00	407	2.70	2.70	1.00	427	2.60	2.60	1.00	446
31	20	3.06	3.06	1.00	407	2.94	2.94	1.00	432	2.85	2.85	1.00	441	2.75	2.75	1.00	461
31	22	3.19	2.96	0.93	422	3.08	2.86	0.93	449	3.00	2.79	0.93	461	2.88	2.67	0.93	480
31	24	3.35	2.71	0.81	441	3.23	2.61	0.81	466	3.15	2.55	0.81	480	3.05	2.47	0.81	504
31	26	3.45	2.38	0.69	466	3.35	2.31	0.69	490	3.30	2.28	0.69	504	3.20	2.21	0.69	519
32	18	2.94	2.94	1.00	388	2.81	2.81	1.00	407	2.70	2.70	1.00	427	2.60	2.60	1.00	446
32	20	3.06	3.06	1.00	407	2.94	2.94	1.00	432	2.85	2.85	1.00	441	2.75	2.75	1.00	461
32	22	3.19	3.09	0.97	422	3.08	2.98	0.97	449	3.00	2.91	0.97	461	2.88	2.79	0.97	480
32	24	3.35	2.85	0.85	441	3.23	2.74	0.85	466	3.15	2.68	0.85	480	3.05	2.59	0.85	504
32	26	3.45	2.52	0.73	466	3.35	2.45	0.73	490	3.30	2.41	0.73	504	3.20	2.34	0.73	519

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE CURVES COOL operation at Rated frequency

MSZ-FH25VE2: MUZ-FH25VE

CAPACITY: 2.5 kW SHF: 0.95 INPUT: 485 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)											
		35				40				46			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	2.45	1.89	0.77	475	2.25	1.73	0.77	504	2.08	1.60	0.77	524
21	20	2.58	1.67	0.65	495	2.40	1.56	0.65	519	2.23	1.45	0.65	548
22	18	2.45	1.98	0.81	475	2.25	1.82	0.81	504	2.08	1.68	0.81	524
22	20	2.58	1.78	0.69	495	2.40	1.66	0.69	519	2.23	1.54	0.69	548
22	22	2.73	1.55	0.57	514	2.55	1.45	0.57	543	2.38	1.35	0.57	563
23	18	2.45	2.08	0.85	475	2.25	1.91	0.85	504	2.08	1.76	0.85	524
23	20	2.58	1.88	0.73	495	2.40	1.75	0.73	519	2.23	1.62	0.73	548
23	22	2.73	1.66	0.61	514	2.55	1.56	0.61	543	2.38	1.45	0.61	563
24	18	2.45	2.18	0.89	475	2.25	2.00	0.89	504	2.08	1.85	0.89	524
24	20	2.58	1.98	0.77	495	2.40	1.85	0.77	519	2.23	1.71	0.77	548
24	22	2.73	1.77	0.65	514	2.55	1.66	0.65	543	2.38	1.54	0.65	563
24	24	2.88	1.52	0.53	534	2.70	1.43	0.53	558	2.55	1.35	0.53	582
25	18	2.45	2.28	0.93	475	2.25	2.09	0.93	504	2.08	1.93	0.93	524
25	20	2.58	2.09	0.81	495	2.40	1.94	0.81	519	2.23	1.80	0.81	548
25	22	2.73	1.88	0.69	514	2.55	1.76	0.69	543	2.38	1.64	0.69	563
25	24	2.88	1.64	0.57	534	2.70	1.54	0.57	558	2.55	1.45	0.57	582
26	18	2.45	2.38	0.97	475	2.25	2.18	0.97	504	2.08	2.01	0.97	524
26	20	2.58	2.19	0.85	495	2.40	2.04	0.85	519	2.23	1.89	0.85	548
26	22	2.73	1.99	0.73	514	2.55	1.86	0.73	543	2.38	1.73	0.73	563
26	24	2.88	1.75	0.61	534	2.70	1.65	0.61	558	2.55	1.56	0.61	582
26	26	3.03	1.48	0.49	553	2.85	1.40	0.49	577	2.68	1.31	0.49	601
27	18	2.45	2.45	1.00	475	2.25	2.25	1.00	504	2.08	2.08	1.00	524
27	20	2.58	2.29	0.89	495	2.40	2.14	0.89	519	2.23	1.98	0.89	548
27	22	2.73	2.10	0.77	514	2.55	1.96	0.77	543	2.38	1.83	0.77	563
27	24	2.88	1.87	0.65	534	2.70	1.76	0.65	558	2.55	1.66	0.65	582
27	26	3.03	1.60	0.53	553	2.85	1.51	0.53	577	2.68	1.42	0.53	601
28	18	2.45	2.45	1.00	475	2.25	2.25	1.00	504	2.08	2.08	1.00	524
28	20	2.58	2.39	0.93	495	2.40	2.23	0.93	519	2.23	2.07	0.93	548
28	22	2.73	2.21	0.81	514	2.55	2.07	0.81	543	2.38	1.92	0.81	563
28	24	2.88	1.98	0.69	534	2.70	1.86	0.69	558	2.55	1.76	0.69	582
28	26	3.03	1.72	0.57	553	2.85	1.62	0.57	577	2.68	1.52	0.57	601
29	18	2.45	2.45	1.00	475	2.25	2.25	1.00	504	2.08	2.08	1.00	524
29	20	2.58	2.50	0.97	495	2.40	2.33	0.97	519	2.23	2.16	0.97	548
29	22	2.73	2.32	0.85	514	2.55	2.17	0.85	543	2.38	2.02	0.85	563
29	24	2.88	2.10	0.73	534	2.70	1.97	0.73	558	2.55	1.86	0.73	582
29	26	3.03	1.85	0.61	553	2.85	1.74	0.61	577	2.68	1.63	0.61	601
30	18	2.45	2.45	1.00	475	2.25	2.25	1.00	504	2.08	2.08	1.00	524
30	20	2.58	2.58	1.00	495	2.40	2.40	1.00	519	2.23	2.23	1.00	548
30	22	2.73	2.43	0.89	514	2.55	2.27	0.89	543	2.38	2.11	0.89	563
30	24	2.88	2.21	0.77	534	2.70	2.08	0.77	558	2.55	1.96	0.77	582
30	26	3.03	1.97	0.65	553	2.85	1.85	0.65	577	2.68	1.74	0.65	601
31	18	2.45	2.45	1.00	475	2.25	2.25	1.00	504	2.08	2.08	1.00	524
31	20	2.58	2.58	1.00	495	2.40	2.40	1.00	519	2.23	2.23	1.00	548
31	22	2.73	2.53	0.93	514	2.55	2.37	0.93	543	2.38	2.21	0.93	563
31	24	2.88	2.33	0.81	534	2.70	2.19	0.81	558	2.55	2.07	0.81	582
31	26	3.03	2.09	0.69	553	2.85	1.97	0.69	577	2.68	1.85	0.69	601
32	18	2.45	2.45	1.00	475	2.25	2.25	1.00	504	2.08	2.08	1.00	524
32	20	2.58	2.58	1.00	495	2.40	2.40	1.00	519	2.23	2.23	1.00	548
32	22	2.73	2.64	0.97	514	2.55	2.47	0.97	543	2.38	2.30	0.97	563
32	24	2.88	2.44	0.85	534	2.70	2.30	0.85	558	2.55	2.17	0.85	582
32	26	3.03	2.21	0.73	553	2.85	2.08	0.73	577	2.68	1.95	0.73	601

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE CURVES COOL operation at Rated frequency

MSZ-FH35VE2: MUZ-FH35VE

CAPACITY: 3.5 kW SHF: 0.84 INPUT: 820 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)															
		21				25				27				30			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	4.11	2.71	0.66	656	3.94	2.60	0.66	689	3.78	2.49	0.66	722	3.64	2.40	0.66	754
21	20	4.29	2.32	0.54	689	4.11	2.22	0.54	730	3.99	2.15	0.54	746	3.85	2.08	0.54	779
22	18	4.11	2.88	0.70	656	3.94	2.76	0.70	689	3.78	2.65	0.70	722	3.64	2.55	0.70	754
22	20	4.29	2.49	0.58	689	4.11	2.39	0.58	730	3.99	2.31	0.58	746	3.85	2.23	0.58	779
22	22	4.46	2.05	0.46	713	4.31	1.98	0.46	759	4.20	1.93	0.46	779	4.03	1.85	0.46	812
23	18	4.11	3.04	0.74	656	3.94	2.91	0.74	689	3.78	2.80	0.74	722	3.64	2.69	0.74	754
23	20	4.29	2.66	0.62	689	4.11	2.55	0.62	730	3.99	2.47	0.62	746	3.85	2.39	0.62	779
23	22	4.46	2.23	0.50	713	4.31	2.15	0.50	759	4.20	2.10	0.50	779	4.03	2.01	0.50	812
24	18	4.11	3.21	0.78	656	3.94	3.07	0.78	689	3.78	2.95	0.78	722	3.64	2.84	0.78	754
24	20	4.29	2.83	0.66	689	4.11	2.71	0.66	730	3.99	2.63	0.66	746	3.85	2.54	0.66	779
24	22	4.46	2.41	0.54	713	4.31	2.32	0.54	759	4.20	2.27	0.54	779	4.03	2.17	0.54	812
24	24	4.69	1.97	0.42	746	4.52	1.90	0.42	787	4.41	1.85	0.42	812	4.27	1.79	0.42	853
25	18	4.11	3.37	0.82	656	3.94	3.23	0.82	689	3.78	3.10	0.82	722	3.64	2.98	0.82	754
25	20	4.29	3.00	0.70	689	4.11	2.88	0.70	730	3.99	2.79	0.70	746	3.85	2.70	0.70	779
25	22	4.46	2.59	0.58	713	4.31	2.50	0.58	759	4.20	2.44	0.58	779	4.03	2.33	0.58	812
25	24	4.69	2.16	0.46	746	4.52	2.08	0.46	787	4.41	2.03	0.46	812	4.27	1.96	0.46	853
26	18	4.11	3.54	0.86	656	3.94	3.39	0.86	689	3.78	3.25	0.86	722	3.64	3.13	0.86	754
26	20	4.29	3.17	0.74	689	4.11	3.04	0.74	730	3.99	2.95	0.74	746	3.85	2.85	0.74	779
26	22	4.46	2.77	0.62	713	4.31	2.67	0.62	759	4.20	2.60	0.62	779	4.03	2.50	0.62	812
26	24	4.69	2.35	0.50	746	4.52	2.26	0.50	787	4.41	2.21	0.50	812	4.27	2.14	0.50	853
26	26	4.83	1.84	0.38	787	4.69	1.78	0.38	828	4.62	1.76	0.38	853	4.48	1.70	0.38	877
27	18	4.11	3.70	0.90	656	3.94	3.54	0.90	689	3.78	3.40	0.90	722	3.64	3.28	0.90	754
27	20	4.29	3.34	0.78	689	4.11	3.21	0.78	730	3.99	3.11	0.78	746	3.85	3.00	0.78	779
27	22	4.46	2.95	0.66	713	4.31	2.84	0.66	759	4.20	2.77	0.66	779	4.03	2.66	0.66	812
27	24	4.69	2.53	0.54	746	4.52	2.44	0.54	787	4.41	2.38	0.54	812	4.27	2.31	0.54	853
27	26	4.83	2.03	0.42	787	4.69	1.97	0.42	828	4.62	1.94	0.42	853	4.48	1.88	0.42	877
28	18	4.11	3.87	0.94	656	3.94	3.70	0.94	689	3.78	3.55	0.94	722	3.64	3.42	0.94	754
28	20	4.29	3.52	0.82	689	4.11	3.37	0.82	730	3.99	3.27	0.82	746	3.85	3.16	0.82	779
28	22	4.46	3.12	0.70	713	4.31	3.01	0.70	759	4.20	2.94	0.70	779	4.03	2.82	0.70	812
28	24	4.69	2.72	0.58	746	4.52	2.62	0.58	787	4.41	2.56	0.58	812	4.27	2.48	0.58	853
28	26	4.83	2.22	0.46	787	4.69	2.16	0.46	828	4.62	2.13	0.46	853	4.48	2.06	0.46	877
29	18	4.11	4.03	0.98	656	3.94	3.86	0.98	689	3.78	3.70	0.98	722	3.64	3.57	0.98	754
29	20	4.29	3.69	0.86	689	4.11	3.54	0.86	730	3.99	3.43	0.86	746	3.85	3.31	0.86	779
29	22	4.46	3.30	0.74	713	4.31	3.19	0.74	759	4.20	3.11	0.74	779	4.03	2.98	0.74	812
29	24	4.69	2.91	0.62	746	4.52	2.80	0.62	787	4.41	2.73	0.62	812	4.27	2.65	0.62	853
29	26	4.83	2.42	0.50	787	4.69	2.35	0.50	828	4.62	2.31	0.50	853	4.48	2.24	0.50	877
30	18	4.11	4.11	1.00	656	3.94	3.94	1.00	689	3.78	3.78	1.00	722	3.64	3.64	1.00	754
30	20	4.29	3.86	0.90	689	4.11	3.70	0.90	730	3.99	3.59	0.90	746	3.85	3.47	0.90	779
30	22	4.46	3.48	0.78	713	4.31	3.36	0.78	759	4.20	3.28	0.78	779	4.03	3.14	0.78	812
30	24	4.69	3.10	0.66	746	4.52	2.98	0.66	787	4.41	2.91	0.66	812	4.27	2.82	0.66	853
30	26	4.83	2.61	0.54	787	4.69	2.53	0.54	828	4.62	2.49	0.54	853	4.48	2.42	0.54	877
31	18	4.11	4.11	1.00	656	3.94	3.94	1.00	689	3.78	3.78	1.00	722	3.64	3.64	1.00	754
31	20	4.29	4.03	0.94	689	4.11	3.87	0.94	730	3.99	3.75	0.94	746	3.85	3.62	0.94	779
31	22	4.46	3.66	0.82	713	4.31	3.53	0.82	759	4.20	3.44	0.82	779	4.03	3.30	0.82	812
31	24	4.69	3.28	0.70	746	4.52	3.16	0.70	787	4.41	3.09	0.70	812	4.27	2.99	0.70	853
31	26	4.83	2.80	0.58	787	4.69	2.72	0.58	828	4.62	2.68	0.58	853	4.48	2.60	0.58	877
32	18	4.11	4.11	1.00	656	3.94	3.94	1.00	689	3.78	3.78	1.00	722	3.64	3.64	1.00	754
32	20	4.29	4.20	0.98	689	4.11	4.03	0.98	730	3.99	3.91	0.98	746	3.85	3.77	0.98	779
32	22	4.46	3.84	0.86	713	4.31	3.70	0.86	759	4.20	3.61	0.86	779	4.03	3.46	0.86	812
32	24	4.69	3.47	0.74	746	4.52	3.34	0.74	787	4.41	3.26	0.74	812	4.27	3.16	0.74	853
32	26	4.83	2.99	0.62	787	4.69	2.91	0.62	828	4.62	2.86	0.62	853	4.48	2.78	0.62	877

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE CURVES COOL operation at Rated frequency

MSZ-FH35VE2: MUZ-FH35VE

CAPACITY: 3.5 kW SHF: 0.84 INPUT: 820 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)											
		35				40				46			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	3.43	2.26	0.66	804	3.15	2.08	0.66	853	2.91	1.92	0.66	886
21	20	3.61	1.95	0.54	836	3.36	1.81	0.54	877	3.12	1.68	0.54	927
22	18	3.43	2.40	0.70	804	3.15	2.21	0.70	853	2.91	2.03	0.70	886
22	20	3.61	2.09	0.58	836	3.36	1.95	0.58	877	3.12	1.81	0.58	927
22	22	3.82	1.75	0.46	869	3.57	1.64	0.46	918	3.33	1.53	0.46	951
23	18	3.43	2.54	0.74	804	3.15	2.33	0.74	853	2.91	2.15	0.74	886
23	20	3.61	2.24	0.62	836	3.36	2.08	0.62	877	3.12	1.93	0.62	927
23	22	3.82	1.91	0.50	869	3.57	1.79	0.50	918	3.33	1.66	0.50	951
24	18	3.43	2.68	0.78	804	3.15	2.46	0.78	853	2.91	2.27	0.78	886
24	20	3.61	2.38	0.66	836	3.36	2.22	0.66	877	3.12	2.06	0.66	927
24	22	3.82	2.06	0.54	869	3.57	1.93	0.54	918	3.33	1.80	0.54	951
24	24	4.03	1.69	0.42	902	3.78	1.59	0.42	943	3.57	1.50	0.42	984
25	18	3.43	2.81	0.82	804	3.15	2.58	0.82	853	2.91	2.38	0.82	886
25	20	3.61	2.52	0.70	836	3.36	2.35	0.70	877	3.12	2.18	0.70	927
25	22	3.82	2.21	0.58	869	3.57	2.07	0.58	918	3.33	1.93	0.58	951
25	24	4.03	1.85	0.46	902	3.78	1.74	0.46	943	3.57	1.64	0.46	984
26	18	3.43	2.95	0.86	804	3.15	2.71	0.86	853	2.91	2.50	0.86	886
26	20	3.61	2.67	0.74	836	3.36	2.49	0.74	877	3.12	2.31	0.74	927
26	22	3.82	2.37	0.62	869	3.57	2.21	0.62	918	3.33	2.06	0.62	951
26	24	4.03	2.01	0.50	902	3.78	1.89	0.50	943	3.57	1.79	0.50	984
26	26	4.24	1.61	0.38	935	3.99	1.52	0.38	976	3.75	1.42	0.38	1017
27	18	3.43	3.09	0.90	804	3.15	2.84	0.90	853	2.91	2.61	0.90	886
27	20	3.61	2.81	0.78	836	3.36	2.62	0.78	877	3.12	2.43	0.78	927
27	22	3.82	2.52	0.66	869	3.57	2.36	0.66	918	3.33	2.19	0.66	951
27	24	4.03	2.17	0.54	902	3.78	2.04	0.54	943	3.57	1.93	0.54	984
27	26	4.24	1.78	0.42	935	3.99	1.68	0.42	976	3.75	1.57	0.42	1017
28	18	3.43	3.22	0.94	804	3.15	2.96	0.94	853	2.91	2.73	0.94	886
28	20	3.61	2.96	0.82	836	3.36	2.76	0.82	877	3.12	2.55	0.82	927
28	22	3.82	2.67	0.70	869	3.57	2.50	0.70	918	3.33	2.33	0.70	951
28	24	4.03	2.33	0.58	902	3.78	2.19	0.58	943	3.57	2.07	0.58	984
28	26	4.24	1.95	0.46	935	3.99	1.84	0.46	976	3.75	1.72	0.46	1017
29	18	3.43	3.36	0.98	804	3.15	3.09	0.98	853	2.91	2.85	0.98	886
29	20	3.61	3.10	0.86	836	3.36	2.89	0.86	877	3.12	2.68	0.86	927
29	22	3.82	2.82	0.74	869	3.57	2.64	0.74	918	3.33	2.46	0.74	951
29	24	4.03	2.50	0.62	902	3.78	2.34	0.62	943	3.57	2.21	0.62	984
29	26	4.24	2.12	0.50	935	3.99	2.00	0.50	976	3.75	1.87	0.50	1017
30	18	3.43	3.43	1.00	804	3.15	3.15	1.00	853	2.91	2.91	1.00	886
30	20	3.61	3.24	0.90	836	3.36	3.02	0.90	877	3.12	2.80	0.90	927
30	22	3.82	2.98	0.78	869	3.57	2.78	0.78	918	3.33	2.59	0.78	951
30	24	4.03	2.66	0.66	902	3.78	2.49	0.66	943	3.57	2.36	0.66	984
30	26	4.24	2.29	0.54	935	3.99	2.15	0.54	976	3.75	2.02	0.54	1017
31	18	3.43	3.43	1.00	804	3.15	3.15	1.00	853	2.91	2.91	1.00	886
31	20	3.61	3.39	0.94	836	3.36	3.16	0.94	877	3.12	2.93	0.94	927
31	22	3.82	3.13	0.82	869	3.57	2.93	0.82	918	3.33	2.73	0.82	951
31	24	4.03	2.82	0.70	902	3.78	2.65	0.70	943	3.57	2.50	0.70	984
31	26	4.24	2.46	0.58	935	3.99	2.31	0.58	976	3.75	2.17	0.58	1017
32	18	3.43	3.43	1.00	804	3.15	3.15	1.00	853	2.91	2.91	1.00	886
32	20	3.61	3.53	0.98	836	3.36	3.29	0.98	877	3.12	3.05	0.98	927
32	22	3.82	3.28	0.86	869	3.57	3.07	0.86	918	3.33	2.86	0.86	951
32	24	4.03	2.98	0.74	902	3.78	2.80	0.74	943	3.57	2.64	0.74	984
32	26	4.24	2.63	0.62	935	3.99	2.47	0.62	976	3.75	2.32	0.62	1017

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE CURVES COOL operation at Rated frequency

MSZ-FH50VE2: MUZ-FH50VE

CAPACITY: 5.0 kW SHF: 0.73 INPUT: 1380 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)															
		21				25				27				30			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	5.88	3.23	0.55	1104	5.63	3.09	0.55	1159	5.40	2.97	0.55	1214	5.20	2.86	0.55	1270
21	20	6.13	2.63	0.43	1159	5.88	2.53	0.43	1228	5.70	2.45	0.43	1256	5.50	2.37	0.43	1311
22	18	5.88	3.47	0.59	1104	5.63	3.32	0.59	1159	5.40	3.19	0.59	1214	5.20	3.07	0.59	1270
22	20	6.13	2.88	0.47	1159	5.88	2.76	0.47	1228	5.70	2.68	0.47	1256	5.50	2.59	0.47	1311
22	22	6.38	2.23	0.35	1201	6.15	2.15	0.35	1277	6.00	2.10	0.35	1311	5.75	2.01	0.35	1366
23	18	5.88	3.70	0.63	1104	5.63	3.54	0.63	1159	5.40	3.40	0.63	1214	5.20	3.28	0.63	1270
23	20	6.13	3.12	0.51	1159	5.88	3.00	0.51	1228	5.70	2.91	0.51	1256	5.50	2.81	0.51	1311
23	22	6.38	2.49	0.39	1201	6.15	2.40	0.39	1277	6.00	2.34	0.39	1311	5.75	2.24	0.39	1366
24	18	5.88	3.94	0.67	1104	5.63	3.77	0.67	1159	5.40	3.62	0.67	1214	5.20	3.48	0.67	1270
24	20	6.13	3.37	0.55	1159	5.88	3.23	0.55	1228	5.70	3.14	0.55	1256	5.50	3.03	0.55	1311
24	22	6.38	2.74	0.43	1201	6.15	2.64	0.43	1277	6.00	2.58	0.43	1311	5.75	2.47	0.43	1366
24	24	6.70	2.08	0.31	1256	6.45	2.00	0.31	1325	6.30	1.95	0.31	1366	6.10	1.89	0.31	1435
25	18	5.88	4.17	0.71	1104	5.63	3.99	0.71	1159	5.40	3.83	0.71	1214	5.20	3.69	0.71	1270
25	20	6.13	3.61	0.59	1159	5.88	3.47	0.59	1228	5.70	3.36	0.59	1256	5.50	3.25	0.59	1311
25	22	6.38	3.00	0.47	1201	6.15	2.89	0.47	1277	6.00	2.82	0.47	1311	5.75	2.70	0.47	1366
25	24	6.70	2.35	0.35	1256	6.45	2.26	0.35	1325	6.30	2.21	0.35	1366	6.10	2.14	0.35	1435
26	18	5.88	4.41	0.75	1104	5.63	4.22	0.75	1159	5.40	4.05	0.75	1214	5.20	3.90	0.75	1270
26	20	6.13	3.86	0.63	1159	5.88	3.70	0.63	1228	5.70	3.59	0.63	1256	5.50	3.47	0.63	1311
26	22	6.38	3.25	0.51	1201	6.15	3.14	0.51	1277	6.00	3.06	0.51	1311	5.75	2.93	0.51	1366
26	24	6.70	2.61	0.39	1256	6.45	2.52	0.39	1325	6.30	2.46	0.39	1366	6.10	2.38	0.39	1435
26	26	6.90	1.86	0.27	1325	6.70	1.81	0.27	1394	6.60	1.78	0.27	1435	6.40	1.73	0.27	1477
27	18	5.88	4.64	0.79	1104	5.63	4.44	0.79	1159	5.40	4.27	0.79	1214	5.20	4.11	0.79	1270
27	20	6.13	4.10	0.67	1159	5.88	3.94	0.67	1228	5.70	3.82	0.67	1256	5.50	3.69	0.67	1311
27	22	6.38	3.51	0.55	1201	6.15	3.38	0.55	1277	6.00	3.30	0.55	1311	5.75	3.16	0.55	1366
27	24	6.70	2.88	0.43	1256	6.45	2.77	0.43	1325	6.30	2.71	0.43	1366	6.10	2.62	0.43	1435
27	26	6.90	2.14	0.31	1325	6.70	2.08	0.31	1394	6.60	2.05	0.31	1435	6.40	1.98	0.31	1477
28	18	5.88	4.88	0.83	1104	5.63	4.67	0.83	1159	5.40	4.48	0.83	1214	5.20	4.32	0.83	1270
28	20	6.13	4.35	0.71	1159	5.88	4.17	0.71	1228	5.70	4.05	0.71	1256	5.50	3.91	0.71	1311
28	22	6.38	3.76	0.59	1201	6.15	3.63	0.59	1277	6.00	3.54	0.59	1311	5.75	3.39	0.59	1366
28	24	6.70	3.15	0.47	1256	6.45	3.03	0.47	1325	6.30	2.96	0.47	1366	6.10	2.87	0.47	1435
28	26	6.90	2.42	0.35	1325	6.70	2.35	0.35	1394	6.60	2.31	0.35	1435	6.40	2.24	0.35	1477
29	18	5.88	5.11	0.87	1104	5.63	4.89	0.87	1159	5.40	4.70	0.87	1214	5.20	4.52	0.87	1270
29	20	6.13	4.59	0.75	1159	5.88	4.41	0.75	1228	5.70	4.28	0.75	1256	5.50	4.13	0.75	1311
29	22	6.38	4.02	0.63	1201	6.15	3.87	0.63	1277	6.00	3.78	0.63	1311	5.75	3.62	0.63	1366
29	24	6.70	3.42	0.51	1256	6.45	3.29	0.51	1325	6.30	3.21	0.51	1366	6.10	3.11	0.51	1435
29	26	6.90	2.69	0.39	1325	6.70	2.61	0.39	1394	6.60	2.57	0.39	1435	6.40	2.50	0.39	1477
30	18	5.88	5.35	0.91	1104	5.63	5.12	0.91	1159	5.40	4.91	0.91	1214	5.20	4.73	0.91	1270
30	20	6.13	4.84	0.79	1159	5.88	4.64	0.79	1228	5.70	4.50	0.79	1256	5.50	4.35	0.79	1311
30	22	6.38	4.27	0.67	1201	6.15	4.12	0.67	1277	6.00	4.02	0.67	1311	5.75	3.85	0.67	1366
30	24	6.70	3.69	0.55	1256	6.45	3.55	0.55	1325	6.30	3.47	0.55	1366	6.10	3.36	0.55	1435
30	26	6.90	2.97	0.43	1325	6.70	2.88	0.43	1394	6.60	2.84	0.43	1435	6.40	2.75	0.43	1477
31	18	5.88	5.58	0.95	1104	5.63	5.34	0.95	1159	5.40	5.13	0.95	1214	5.20	4.94	0.95	1270
31	20	6.13	5.08	0.83	1159	5.88	4.88	0.83	1228	5.70	4.73	0.83	1256	5.50	4.57	0.83	1311
31	22	6.38	4.53	0.71	1201	6.15	4.37	0.71	1277	6.00	4.26	0.71	1311	5.75	4.08	0.71	1366
31	24	6.70	3.95	0.59	1256	6.45	3.81	0.59	1325	6.30	3.72	0.59	1366	6.10	3.60	0.59	1435
31	26	6.90	3.24	0.47	1325	6.70	3.15	0.47	1394	6.60	3.10	0.47	1435	6.40	3.01	0.47	1477
32	18	5.88	5.82	0.99	1104	5.63	5.57	0.99	1159	5.40	5.35	0.99	1214	5.20	5.15	0.99	1270
32	20	6.13	5.33	0.87	1159	5.88	5.11	0.87	1228	5.70	4.96	0.87	1256	5.50	4.79	0.87	1311
32	22	6.38	4.78	0.75	1201	6.15	4.61	0.75	1277	6.00	4.50	0.75	1311	5.75	4.31	0.75	1366
32	24	6.70	4.22	0.63	1256	6.45	4.06	0.63	1325	6.30	3.97	0.63	1366	6.10	3.84	0.63	1435
32	26	6.90	3.52	0.51	1325	6.70	3.42	0.51	1394	6.60	3.37	0.51	1435	6.40	3.26	0.51	1477

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE CURVES COOL operation at Rated frequency

MSZ-FH50VE2: MUZ-FH50VE

CAPACITY: 5.0 kW SHF: 0.73 INPUT: 1380 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)											
		35				40				46			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	4.90	2.70	0.55	1352	4.50	2.48	0.55	1435	4.15	2.28	0.55	1490
21	20	5.15	2.21	0.43	1408	4.80	2.06	0.43	1477	4.45	1.91	0.43	1559
22	18	4.90	2.89	0.59	1352	4.50	2.66	0.59	1435	4.15	2.45	0.59	1490
22	20	5.15	2.42	0.47	1408	4.80	2.26	0.47	1477	4.45	2.09	0.47	1559
22	22	5.45	1.91	0.35	1463	5.10	1.79	0.35	1546	4.75	1.66	0.35	1601
23	18	4.90	3.09	0.63	1352	4.50	2.84	0.63	1435	4.15	2.61	0.63	1490
23	20	5.15	2.63	0.51	1408	4.80	2.45	0.51	1477	4.45	2.27	0.51	1559
23	22	5.45	2.13	0.39	1463	5.10	1.99	0.39	1546	4.75	1.85	0.39	1601
24	18	4.90	3.28	0.67	1352	4.50	3.02	0.67	1435	4.15	2.78	0.67	1490
24	20	5.15	2.83	0.55	1408	4.80	2.64	0.55	1477	4.45	2.45	0.55	1559
24	22	5.45	2.34	0.43	1463	5.10	2.19	0.43	1546	4.75	2.04	0.43	1601
24	24	5.75	1.78	0.31	1518	5.40	1.67	0.31	1587	5.10	1.58	0.31	1656
25	18	4.90	3.48	0.71	1352	4.50	3.20	0.71	1435	4.15	2.95	0.71	1490
25	20	5.15	3.04	0.59	1408	4.80	2.83	0.59	1477	4.45	2.63	0.59	1559
25	22	5.45	2.56	0.47	1463	5.10	2.40	0.47	1546	4.75	2.23	0.47	1601
25	24	5.75	2.01	0.35	1518	5.40	1.89	0.35	1587	5.10	1.79	0.35	1656
26	18	4.90	3.68	0.75	1352	4.50	3.38	0.75	1435	4.15	3.11	0.75	1490
26	20	5.15	3.24	0.63	1408	4.80	3.02	0.63	1477	4.45	2.80	0.63	1559
26	22	5.45	2.78	0.51	1463	5.10	2.60	0.51	1546	4.75	2.42	0.51	1601
26	24	5.75	2.24	0.39	1518	5.40	2.11	0.39	1587	5.10	1.99	0.39	1656
26	26	6.05	1.63	0.27	1573	5.70	1.54	0.27	1642	5.35	1.44	0.27	1711
27	18	4.90	3.87	0.79	1352	4.50	3.56	0.79	1435	4.15	3.28	0.79	1490
27	20	5.15	3.45	0.67	1408	4.80	3.22	0.67	1477	4.45	2.98	0.67	1559
27	22	5.45	3.00	0.55	1463	5.10	2.81	0.55	1546	4.75	2.61	0.55	1601
27	24	5.75	2.47	0.43	1518	5.40	2.32	0.43	1587	5.10	2.19	0.43	1656
27	26	6.05	1.88	0.31	1573	5.70	1.77	0.31	1642	5.35	1.66	0.31	1711
28	18	4.90	4.07	0.83	1352	4.50	3.74	0.83	1435	4.15	3.44	0.83	1490
28	20	5.15	3.66	0.71	1408	4.80	3.41	0.71	1477	4.45	3.16	0.71	1559
28	22	5.45	3.22	0.59	1463	5.10	3.01	0.59	1546	4.75	2.80	0.59	1601
28	24	5.75	2.70	0.47	1518	5.40	2.54	0.47	1587	5.10	2.40	0.47	1656
28	26	6.05	2.12	0.35	1573	5.70	2.00	0.35	1642	5.35	1.87	0.35	1711
29	18	4.90	4.26	0.87	1352	4.50	3.92	0.87	1435	4.15	3.61	0.87	1490
29	20	5.15	3.86	0.75	1408	4.80	3.60	0.75	1477	4.45	3.34	0.75	1559
29	22	5.45	3.43	0.63	1463	5.10	3.21	0.63	1546	4.75	2.99	0.63	1601
29	24	5.75	2.93	0.51	1518	5.40	2.75	0.51	1587	5.10	2.60	0.51	1656
29	26	6.05	2.36	0.39	1573	5.70	2.22	0.39	1642	5.35	2.09	0.39	1711
30	18	4.90	4.46	0.91	1352	4.50	4.10	0.91	1435	4.15	3.78	0.91	1490
30	20	5.15	4.07	0.79	1408	4.80	3.79	0.79	1477	4.45	3.52	0.79	1559
30	22	5.45	3.65	0.67	1463	5.10	3.42	0.67	1546	4.75	3.18	0.67	1601
30	24	5.75	3.16	0.55	1518	5.40	2.97	0.55	1587	5.10	2.81	0.55	1656
30	26	6.05	2.60	0.43	1573	5.70	2.45	0.43	1642	5.35	2.30	0.43	1711
31	18	4.90	4.66	0.95	1352	4.50	4.28	0.95	1435	4.15	3.94	0.95	1490
31	20	5.15	4.27	0.83	1408	4.80	3.98	0.83	1477	4.45	3.69	0.83	1559
31	22	5.45	3.87	0.71	1463	5.10	3.62	0.71	1546	4.75	3.37	0.71	1601
31	24	5.75	3.39	0.59	1518	5.40	3.19	0.59	1587	5.10	3.01	0.59	1656
31	26	6.05	2.84	0.47	1573	5.70	2.68	0.47	1642	5.35	2.51	0.47	1711
32	18	4.90	4.85	0.99	1352	4.50	4.46	0.99	1435	4.15	4.11	0.99	1490
32	20	5.15	4.48	0.87	1408	4.80	4.18	0.87	1477	4.45	3.87	0.87	1559
32	22	5.45	4.09	0.75	1463	5.10	3.83	0.75	1546	4.75	3.56	0.75	1601
32	24	5.75	3.62	0.63	1518	5.40	3.40	0.63	1587	5.10	3.21	0.63	1656
32	26	6.05	3.09	0.51	1573	5.70	2.91	0.51	1642	5.35	2.73	0.51	1711

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE CURVES COOL operation at Rated frequency

MSZ-FH25VE2: MUZ-FH25VEHZ

CAPACITY: 2.5 kW SHF: 0.95 INPUT: 485 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)															
		21				25				27				30			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	2.94	2.26	0.77	388	2.81	2.17	0.77	407	2.70	2.08	0.77	427	2.60	2.00	0.77	446
21	20	3.06	1.99	0.65	407	2.94	1.91	0.65	432	2.85	1.85	0.65	441	2.75	1.79	0.65	461
22	18	2.94	2.38	0.81	388	2.81	2.28	0.81	407	2.70	2.19	0.81	427	2.60	2.11	0.81	446
22	20	3.06	2.11	0.69	407	2.94	2.03	0.69	432	2.85	1.97	0.69	441	2.75	1.90	0.69	461
22	22	3.19	1.82	0.57	422	3.08	1.75	0.57	449	3.00	1.71	0.57	461	2.88	1.64	0.57	480
23	18	2.94	2.50	0.85	388	2.81	2.39	0.85	407	2.70	2.30	0.85	427	2.60	2.21	0.85	446
23	20	3.06	2.24	0.73	407	2.94	2.14	0.73	432	2.85	2.08	0.73	441	2.75	2.01	0.73	461
23	22	3.19	1.94	0.61	422	3.08	1.88	0.61	449	3.00	1.83	0.61	461	2.88	1.75	0.61	480
24	18	2.94	2.61	0.89	388	2.81	2.50	0.89	407	2.70	2.40	0.89	427	2.60	2.31	0.89	446
24	20	3.06	2.36	0.77	407	2.94	2.26	0.77	432	2.85	2.19	0.77	441	2.75	2.12	0.77	461
24	22	3.19	2.07	0.65	422	3.08	2.00	0.65	449	3.00	1.95	0.65	461	2.88	1.87	0.65	480
24	24	3.35	1.78	0.53	441	3.23	1.71	0.53	466	3.15	1.67	0.53	480	3.05	1.62	0.53	504
25	18	2.94	2.73	0.93	388	2.81	2.62	0.93	407	2.70	2.51	0.93	427	2.60	2.42	0.93	446
25	20	3.06	2.48	0.81	407	2.94	2.38	0.81	432	2.85	2.31	0.81	441	2.75	2.23	0.81	461
25	22	3.19	2.20	0.69	422	3.08	2.12	0.69	449	3.00	2.07	0.69	461	2.88	1.98	0.69	480
25	24	3.35	1.91	0.57	441	3.23	1.84	0.57	466	3.15	1.80	0.57	480	3.05	1.74	0.57	504
26	18	2.94	2.85	0.97	388	2.81	2.73	0.97	407	2.70	2.62	0.97	427	2.60	2.52	0.97	446
26	20	3.06	2.60	0.85	407	2.94	2.50	0.85	432	2.85	2.42	0.85	441	2.75	2.34	0.85	461
26	22	3.19	2.33	0.73	422	3.08	2.24	0.73	449	3.00	2.19	0.73	461	2.88	2.10	0.73	480
26	24	3.35	2.04	0.61	441	3.23	1.97	0.61	466	3.15	1.92	0.61	480	3.05	1.86	0.61	504
26	26	3.45	1.69	0.49	466	3.35	1.64	0.49	490	3.30	1.62	0.49	504	3.20	1.57	0.49	519
27	18	2.94	2.94	1.00	388	2.81	2.81	1.00	407	2.70	2.70	1.00	427	2.60	2.60	1.00	446
27	20	3.06	2.73	0.89	407	2.94	2.61	0.89	432	2.85	2.54	0.89	441	2.75	2.45	0.89	461
27	22	3.19	2.45	0.77	422	3.08	2.37	0.77	449	3.00	2.31	0.77	461	2.88	2.21	0.77	480
27	24	3.35	2.18	0.65	441	3.23	2.10	0.65	466	3.15	2.05	0.65	480	3.05	1.98	0.65	504
27	26	3.45	1.83	0.53	466	3.35	1.78	0.53	490	3.30	1.75	0.53	504	3.20	1.70	0.53	519
28	18	2.94	2.94	1.00	388	2.81	2.81	1.00	407	2.70	2.70	1.00	427	2.60	2.60	1.00	446
28	20	3.06	2.85	0.93	407	2.94	2.73	0.93	432	2.85	2.65	0.93	441	2.75	2.56	0.93	461
28	22	3.19	2.58	0.81	422	3.08	2.49	0.81	449	3.00	2.43	0.81	461	2.88	2.33	0.81	480
28	24	3.35	2.31	0.69	441	3.23	2.23	0.69	466	3.15	2.17	0.69	480	3.05	2.10	0.69	504
28	26	3.45	1.97	0.57	466	3.35	1.91	0.57	490	3.30	1.88	0.57	504	3.20	1.82	0.57	519
29	18	2.94	2.94	1.00	388	2.81	2.81	1.00	407	2.70	2.70	1.00	427	2.60	2.60	1.00	446
29	20	3.06	2.97	0.97	407	2.94	2.85	0.97	432	2.85	2.76	0.97	441	2.75	2.67	0.97	461
29	22	3.19	2.71	0.85	422	3.08	2.61	0.85	449	3.00	2.55	0.85	461	2.88	2.44	0.85	480
29	24	3.35	2.45	0.73	441	3.23	2.35	0.73	466	3.15	2.30	0.73	480	3.05	2.23	0.73	504
29	26	3.45	2.10	0.61	466	3.35	2.04	0.61	490	3.30	2.01	0.61	504	3.20	1.95	0.61	519
30	18	2.94	2.94	1.00	388	2.81	2.81	1.00	407	2.70	2.70	1.00	427	2.60	2.60	1.00	446
30	20	3.06	3.06	1.00	407	2.94	2.94	1.00	432	2.85	2.85	1.00	441	2.75	2.75	1.00	461
30	22	3.19	2.84	0.89	422	3.08	2.74	0.89	449	3.00	2.67	0.89	461	2.88	2.56	0.89	480
30	24	3.35	2.58	0.77	441	3.23	2.48	0.77	466	3.15	2.43	0.77	480	3.05	2.35	0.77	504
30	26	3.45	2.24	0.65	466	3.35	2.18	0.65	490	3.30	2.15	0.65	504	3.20	2.08	0.65	519
31	18	2.94	2.94	1.00	388	2.81	2.81	1.00	407	2.70	2.70	1.00	427	2.60	2.60	1.00	446
31	20	3.06	3.06	1.00	407	2.94	2.94	1.00	432	2.85	2.85	1.00	441	2.75	2.75	1.00	461
31	22	3.19	2.96	0.93	422	3.08	2.86	0.93	449	3.00	2.79	0.93	461	2.88	2.67	0.93	480
31	24	3.35	2.71	0.81	441	3.23	2.61	0.81	466	3.15	2.55	0.81	480	3.05	2.47	0.81	504
31	26	3.45	2.38	0.69	466	3.35	2.31	0.69	490	3.30	2.28	0.69	504	3.20	2.21	0.69	519
32	18	2.94	2.94	1.00	388	2.81	2.81	1.00	407	2.70	2.70	1.00	427	2.60	2.60	1.00	446
32	20	3.06	3.06	1.00	407	2.94	2.94	1.00	432	2.85	2.85	1.00	441	2.75	2.75	1.00	461
32	22	3.19	3.09	0.97	422	3.08	2.98	0.97	449	3.00	2.91	0.97	461	2.88	2.79	0.97	480
32	24	3.35	2.85	0.85	441	3.23	2.74	0.85	466	3.15	2.68	0.85	480	3.05	2.59	0.85	504
32	26	3.45	2.52	0.73	466	3.35	2.45	0.73	490	3.30	2.41	0.73	504	3.20	2.34	0.73	519

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE CURVES COOL operation at Rated frequency

MSZ-FH25VE2: MUZ-FH25VEHZ

CAPACITY: 2.5 kW SHF: 0.95 INPUT: 485 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)											
		35				40				46			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	2.45	1.89	0.77	475	2.25	1.73	0.77	504	2.08	1.60	0.77	524
21	20	2.58	1.67	0.65	495	2.40	1.56	0.65	519	2.23	1.45	0.65	548
22	18	2.45	1.98	0.81	475	2.25	1.82	0.81	504	2.08	1.68	0.81	524
22	20	2.58	1.78	0.69	495	2.40	1.66	0.69	519	2.23	1.54	0.69	548
22	22	2.73	1.55	0.57	514	2.55	1.45	0.57	543	2.38	1.35	0.57	563
23	18	2.45	2.08	0.85	475	2.25	1.91	0.85	504	2.08	1.76	0.85	524
23	20	2.58	1.88	0.73	495	2.40	1.75	0.73	519	2.23	1.62	0.73	548
23	22	2.73	1.66	0.61	514	2.55	1.56	0.61	543	2.38	1.45	0.61	563
24	18	2.45	2.18	0.89	475	2.25	2.00	0.89	504	2.08	1.85	0.89	524
24	20	2.58	1.98	0.77	495	2.40	1.85	0.77	519	2.23	1.71	0.77	548
24	22	2.73	1.77	0.65	514	2.55	1.66	0.65	543	2.38	1.54	0.65	563
24	24	2.88	1.52	0.53	534	2.70	1.43	0.53	558	2.55	1.35	0.53	582
25	18	2.45	2.28	0.93	475	2.25	2.09	0.93	504	2.08	1.93	0.93	524
25	20	2.58	2.09	0.81	495	2.40	1.94	0.81	519	2.23	1.80	0.81	548
25	22	2.73	1.88	0.69	514	2.55	1.76	0.69	543	2.38	1.64	0.69	563
25	24	2.88	1.64	0.57	534	2.70	1.54	0.57	558	2.55	1.45	0.57	582
26	18	2.45	2.38	0.97	475	2.25	2.18	0.97	504	2.08	2.01	0.97	524
26	20	2.58	2.19	0.85	495	2.40	2.04	0.85	519	2.23	1.89	0.85	548
26	22	2.73	1.99	0.73	514	2.55	1.86	0.73	543	2.38	1.73	0.73	563
26	24	2.88	1.75	0.61	534	2.70	1.65	0.61	558	2.55	1.56	0.61	582
26	26	3.03	1.48	0.49	553	2.85	1.40	0.49	577	2.68	1.31	0.49	601
27	18	2.45	2.45	1.00	475	2.25	2.25	1.00	504	2.08	2.08	1.00	524
27	20	2.58	2.29	0.89	495	2.40	2.14	0.89	519	2.23	1.98	0.89	548
27	22	2.73	2.10	0.77	514	2.55	1.96	0.77	543	2.38	1.83	0.77	563
27	24	2.88	1.87	0.65	534	2.70	1.76	0.65	558	2.55	1.66	0.65	582
27	26	3.03	1.60	0.53	553	2.85	1.51	0.53	577	2.68	1.42	0.53	601
28	18	2.45	2.45	1.00	475	2.25	2.25	1.00	504	2.08	2.08	1.00	524
28	20	2.58	2.39	0.93	495	2.40	2.23	0.93	519	2.23	2.07	0.93	548
28	22	2.73	2.21	0.81	514	2.55	2.07	0.81	543	2.38	1.92	0.81	563
28	24	2.88	1.98	0.69	534	2.70	1.86	0.69	558	2.55	1.76	0.69	582
28	26	3.03	1.72	0.57	553	2.85	1.62	0.57	577	2.68	1.52	0.57	601
29	18	2.45	2.45	1.00	475	2.25	2.25	1.00	504	2.08	2.08	1.00	524
29	20	2.58	2.50	0.97	495	2.40	2.33	0.97	519	2.23	2.16	0.97	548
29	22	2.73	2.32	0.85	514	2.55	2.17	0.85	543	2.38	2.02	0.85	563
29	24	2.88	2.10	0.73	534	2.70	1.97	0.73	558	2.55	1.86	0.73	582
29	26	3.03	1.85	0.61	553	2.85	1.74	0.61	577	2.68	1.63	0.61	601
30	18	2.45	2.45	1.00	475	2.25	2.25	1.00	504	2.08	2.08	1.00	524
30	20	2.58	2.58	1.00	495	2.40	2.40	1.00	519	2.23	2.23	1.00	548
30	22	2.73	2.43	0.89	514	2.55	2.27	0.89	543	2.38	2.11	0.89	563
30	24	2.88	2.21	0.77	534	2.70	2.08	0.77	558	2.55	1.96	0.77	582
30	26	3.03	1.97	0.65	553	2.85	1.85	0.65	577	2.68	1.74	0.65	601
31	18	2.45	2.45	1.00	475	2.25	2.25	1.00	504	2.08	2.08	1.00	524
31	20	2.58	2.58	1.00	495	2.40	2.40	1.00	519	2.23	2.23	1.00	548
31	22	2.73	2.53	0.93	514	2.55	2.37	0.93	543	2.38	2.21	0.93	563
31	24	2.88	2.33	0.81	534	2.70	2.19	0.81	558	2.55	2.07	0.81	582
31	26	3.03	2.09	0.69	553	2.85	1.97	0.69	577	2.68	1.85	0.69	601
32	18	2.45	2.45	1.00	475	2.25	2.25	1.00	504	2.08	2.08	1.00	524
32	20	2.58	2.58	1.00	495	2.40	2.40	1.00	519	2.23	2.23	1.00	548
32	22	2.73	2.64	0.97	514	2.55	2.47	0.97	543	2.38	2.30	0.97	563
32	24	2.88	2.44	0.85	534	2.70	2.30	0.85	558	2.55	2.17	0.85	582
32	26	3.03	2.21	0.73	553	2.85	2.08	0.73	577	2.68	1.95	0.73	601

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE CURVES COOL operation at Rated frequency

MSZ-FH35VE2: MUZ-FH35VEHZ

CAPACITY: 3.5 kW SHF: 0.84 INPUT: 820 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)															
		21				25				27				30			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	4.11	2.71	0.66	656	3.94	2.60	0.66	689	3.78	2.49	0.66	722	3.64	2.40	0.66	754
21	20	4.29	2.32	0.54	689	4.11	2.22	0.54	730	3.99	2.15	0.54	746	3.85	2.08	0.54	779
22	18	4.11	2.88	0.70	656	3.94	2.76	0.70	689	3.78	2.65	0.70	722	3.64	2.55	0.70	754
22	20	4.29	2.49	0.58	689	4.11	2.39	0.58	730	3.99	2.31	0.58	746	3.85	2.23	0.58	779
22	22	4.46	2.05	0.46	713	4.31	1.98	0.46	759	4.20	1.93	0.46	779	4.03	1.85	0.46	812
23	18	4.11	3.04	0.74	656	3.94	2.91	0.74	689	3.78	2.80	0.74	722	3.64	2.69	0.74	754
23	20	4.29	2.66	0.62	689	4.11	2.55	0.62	730	3.99	2.47	0.62	746	3.85	2.39	0.62	779
23	22	4.46	2.23	0.50	713	4.31	2.15	0.50	759	4.20	2.10	0.50	779	4.03	2.01	0.50	812
24	18	4.11	3.21	0.78	656	3.94	3.07	0.78	689	3.78	2.95	0.78	722	3.64	2.84	0.78	754
24	20	4.29	2.83	0.66	689	4.11	2.71	0.66	730	3.99	2.63	0.66	746	3.85	2.54	0.66	779
24	22	4.46	2.41	0.54	713	4.31	2.32	0.54	759	4.20	2.27	0.54	779	4.03	2.17	0.54	812
24	24	4.69	1.97	0.42	746	4.52	1.90	0.42	787	4.41	1.85	0.42	812	4.27	1.79	0.42	853
25	18	4.11	3.37	0.82	656	3.94	3.23	0.82	689	3.78	3.10	0.82	722	3.64	2.98	0.82	754
25	20	4.29	3.00	0.70	689	4.11	2.88	0.70	730	3.99	2.79	0.70	746	3.85	2.70	0.70	779
25	22	4.46	2.59	0.58	713	4.31	2.50	0.58	759	4.20	2.44	0.58	779	4.03	2.33	0.58	812
25	24	4.69	2.16	0.46	746	4.52	2.08	0.46	787	4.41	2.03	0.46	812	4.27	1.96	0.46	853
26	18	4.11	3.54	0.86	656	3.94	3.39	0.86	689	3.78	3.25	0.86	722	3.64	3.13	0.86	754
26	20	4.29	3.17	0.74	689	4.11	3.04	0.74	730	3.99	2.95	0.74	746	3.85	2.85	0.74	779
26	22	4.46	2.77	0.62	713	4.31	2.67	0.62	759	4.20	2.60	0.62	779	4.03	2.50	0.62	812
26	24	4.69	2.35	0.50	746	4.52	2.26	0.50	787	4.41	2.21	0.50	812	4.27	2.14	0.50	853
26	26	4.83	1.84	0.38	787	4.69	1.78	0.38	828	4.62	1.76	0.38	853	4.48	1.70	0.38	877
27	18	4.11	3.70	0.90	656	3.94	3.54	0.90	689	3.78	3.40	0.90	722	3.64	3.28	0.90	754
27	20	4.29	3.34	0.78	689	4.11	3.21	0.78	730	3.99	3.11	0.78	746	3.85	3.00	0.78	779
27	22	4.46	2.95	0.66	713	4.31	2.84	0.66	759	4.20	2.77	0.66	779	4.03	2.66	0.66	812
27	24	4.69	2.53	0.54	746	4.52	2.44	0.54	787	4.41	2.38	0.54	812	4.27	2.31	0.54	853
27	26	4.83	2.03	0.42	787	4.69	1.97	0.42	828	4.62	1.94	0.42	853	4.48	1.88	0.42	877
28	18	4.11	3.87	0.94	656	3.94	3.70	0.94	689	3.78	3.55	0.94	722	3.64	3.42	0.94	754
28	20	4.29	3.52	0.82	689	4.11	3.37	0.82	730	3.99	3.27	0.82	746	3.85	3.16	0.82	779
28	22	4.46	3.12	0.70	713	4.31	3.01	0.70	759	4.20	2.94	0.70	779	4.03	2.82	0.70	812
28	24	4.69	2.72	0.58	746	4.52	2.62	0.58	787	4.41	2.56	0.58	812	4.27	2.48	0.58	853
28	26	4.83	2.22	0.46	787	4.69	2.16	0.46	828	4.62	2.13	0.46	853	4.48	2.06	0.46	877
29	18	4.11	4.03	0.98	656	3.94	3.86	0.98	689	3.78	3.70	0.98	722	3.64	3.57	0.98	754
29	20	4.29	3.69	0.86	689	4.11	3.54	0.86	730	3.99	3.43	0.86	746	3.85	3.31	0.86	779
29	22	4.46	3.30	0.74	713	4.31	3.19	0.74	759	4.20	3.11	0.74	779	4.03	2.98	0.74	812
29	24	4.69	2.91	0.62	746	4.52	2.80	0.62	787	4.41	2.73	0.62	812	4.27	2.65	0.62	853
29	26	4.83	2.42	0.50	787	4.69	2.35	0.50	828	4.62	2.31	0.50	853	4.48	2.24	0.50	877
30	18	4.11	4.11	1.00	656	3.94	3.94	1.00	689	3.78	3.78	1.00	722	3.64	3.64	1.00	754
30	20	4.29	3.86	0.90	689	4.11	3.70	0.90	730	3.99	3.59	0.90	746	3.85	3.47	0.90	779
30	22	4.46	3.48	0.78	713	4.31	3.36	0.78	759	4.20	3.28	0.78	779	4.03	3.14	0.78	812
30	24	4.69	3.10	0.66	746	4.52	2.98	0.66	787	4.41	2.91	0.66	812	4.27	2.82	0.66	853
30	26	4.83	2.61	0.54	787	4.69	2.53	0.54	828	4.62	2.49	0.54	853	4.48	2.42	0.54	877
31	18	4.11	4.11	1.00	656	3.94	3.94	1.00	689	3.78	3.78	1.00	722	3.64	3.64	1.00	754
31	20	4.29	4.03	0.94	689	4.11	3.87	0.94	730	3.99	3.75	0.94	746	3.85	3.62	0.94	779
31	22	4.46	3.66	0.82	713	4.31	3.53	0.82	759	4.20	3.44	0.82	779	4.03	3.30	0.82	812
31	24	4.69	3.28	0.70	746	4.52	3.16	0.70	787	4.41	3.09	0.70	812	4.27	2.99	0.70	853
31	26	4.83	2.80	0.58	787	4.69	2.72	0.58	828	4.62	2.68	0.58	853	4.48	2.60	0.58	877
32	18	4.11	4.11	1.00	656	3.94	3.94	1.00	689	3.78	3.78	1.00	722	3.64	3.64	1.00	754
32	20	4.29	4.20	0.98	689	4.11	4.03	0.98	730	3.99	3.91	0.98	746	3.85	3.77	0.98	779
32	22	4.46	3.84	0.86	713	4.31	3.70	0.86	759	4.20	3.61	0.86	779	4.03	3.46	0.86	812
32	24	4.69	3.47	0.74	746	4.52	3.34	0.74	787	4.41	3.26	0.74	812	4.27	3.16	0.74	853
32	26	4.83	2.99	0.62	787	4.69	2.91	0.62	828	4.62	2.86	0.62	853	4.48	2.78	0.62	877

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE CURVES COOL operation at Rated frequency

MSZ-FH35VE2: MUZ-FH35VEHZ

CAPACITY: 3.5 kW SHF: 0.84 INPUT: 820 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)											
		35				40				46			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	3.43	2.26	0.66	804	3.15	2.08	0.66	853	2.91	1.92	0.66	886
21	20	3.61	1.95	0.54	836	3.36	1.81	0.54	877	3.12	1.68	0.54	927
22	18	3.43	2.40	0.70	804	3.15	2.21	0.70	853	2.91	2.03	0.70	886
22	20	3.61	2.09	0.58	836	3.36	1.95	0.58	877	3.12	1.81	0.58	927
22	22	3.82	1.75	0.46	869	3.57	1.64	0.46	918	3.33	1.53	0.46	951
23	18	3.43	2.54	0.74	804	3.15	2.33	0.74	853	2.91	2.15	0.74	886
23	20	3.61	2.24	0.62	836	3.36	2.08	0.62	877	3.12	1.93	0.62	927
23	22	3.82	1.91	0.50	869	3.57	1.79	0.50	918	3.33	1.66	0.50	951
24	18	3.43	2.68	0.78	804	3.15	2.46	0.78	853	2.91	2.27	0.78	886
24	20	3.61	2.38	0.66	836	3.36	2.22	0.66	877	3.12	2.06	0.66	927
24	22	3.82	2.06	0.54	869	3.57	1.93	0.54	918	3.33	1.80	0.54	951
24	24	4.03	1.69	0.42	902	3.78	1.59	0.42	943	3.57	1.50	0.42	984
25	18	3.43	2.81	0.82	804	3.15	2.58	0.82	853	2.91	2.38	0.82	886
25	20	3.61	2.52	0.70	836	3.36	2.35	0.70	877	3.12	2.18	0.70	927
25	22	3.82	2.21	0.58	869	3.57	2.07	0.58	918	3.33	1.93	0.58	951
25	24	4.03	1.85	0.46	902	3.78	1.74	0.46	943	3.57	1.64	0.46	984
26	18	3.43	2.95	0.86	804	3.15	2.71	0.86	853	2.91	2.50	0.86	886
26	20	3.61	2.67	0.74	836	3.36	2.49	0.74	877	3.12	2.31	0.74	927
26	22	3.82	2.37	0.62	869	3.57	2.21	0.62	918	3.33	2.06	0.62	951
26	24	4.03	2.01	0.50	902	3.78	1.89	0.50	943	3.57	1.79	0.50	984
26	26	4.24	1.61	0.38	935	3.99	1.52	0.38	976	3.75	1.42	0.38	1017
27	18	3.43	3.09	0.90	804	3.15	2.84	0.90	853	2.91	2.61	0.90	886
27	20	3.61	2.81	0.78	836	3.36	2.62	0.78	877	3.12	2.43	0.78	927
27	22	3.82	2.52	0.66	869	3.57	2.36	0.66	918	3.33	2.19	0.66	951
27	24	4.03	2.17	0.54	902	3.78	2.04	0.54	943	3.57	1.93	0.54	984
27	26	4.24	1.78	0.42	935	3.99	1.68	0.42	976	3.75	1.57	0.42	1017
28	18	3.43	3.22	0.94	804	3.15	2.96	0.94	853	2.91	2.73	0.94	886
28	20	3.61	2.96	0.82	836	3.36	2.76	0.82	877	3.12	2.55	0.82	927
28	22	3.82	2.67	0.70	869	3.57	2.50	0.70	918	3.33	2.33	0.70	951
28	24	4.03	2.33	0.58	902	3.78	2.19	0.58	943	3.57	2.07	0.58	984
28	26	4.24	1.95	0.46	935	3.99	1.84	0.46	976	3.75	1.72	0.46	1017
29	18	3.43	3.36	0.98	804	3.15	3.09	0.98	853	2.91	2.85	0.98	886
29	20	3.61	3.10	0.86	836	3.36	2.89	0.86	877	3.12	2.68	0.86	927
29	22	3.82	2.82	0.74	869	3.57	2.64	0.74	918	3.33	2.46	0.74	951
29	24	4.03	2.50	0.62	902	3.78	2.34	0.62	943	3.57	2.21	0.62	984
29	26	4.24	2.12	0.50	935	3.99	2.00	0.50	976	3.75	1.87	0.50	1017
30	18	3.43	3.43	1.00	804	3.15	3.15	1.00	853	2.91	2.91	1.00	886
30	20	3.61	3.24	0.90	836	3.36	3.02	0.90	877	3.12	2.80	0.90	927
30	22	3.82	2.98	0.78	869	3.57	2.78	0.78	918	3.33	2.59	0.78	951
30	24	4.03	2.66	0.66	902	3.78	2.49	0.66	943	3.57	2.36	0.66	984
30	26	4.24	2.29	0.54	935	3.99	2.15	0.54	976	3.75	2.02	0.54	1017
31	18	3.43	3.43	1.00	804	3.15	3.15	1.00	853	2.91	2.91	1.00	886
31	20	3.61	3.39	0.94	836	3.36	3.16	0.94	877	3.12	2.93	0.94	927
31	22	3.82	3.13	0.82	869	3.57	2.93	0.82	918	3.33	2.73	0.82	951
31	24	4.03	2.82	0.70	902	3.78	2.65	0.70	943	3.57	2.50	0.70	984
31	26	4.24	2.46	0.58	935	3.99	2.31	0.58	976	3.75	2.17	0.58	1017
32	18	3.43	3.43	1.00	804	3.15	3.15	1.00	853	2.91	2.91	1.00	886
32	20	3.61	3.53	0.98	836	3.36	3.29	0.98	877	3.12	3.05	0.98	927
32	22	3.82	3.28	0.86	869	3.57	3.07	0.86	918	3.33	2.86	0.86	951
32	24	4.03	2.98	0.74	902	3.78	2.80	0.74	943	3.57	2.64	0.74	984
32	26	4.24	2.63	0.62	935	3.99	2.47	0.62	976	3.75	2.32	0.62	1017

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE CURVES COOL operation at Rated frequency

MSZ-FH50VE2: MUZ-FH50VEHZ

CAPACITY: 5.0 kW SHF: 0.73 INPUT: 1380 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)															
		21				25				27				30			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	5.88	3.23	0.55	1104	5.63	3.09	0.55	1159	5.40	2.97	0.55	1214	5.20	2.86	0.55	1270
21	20	6.13	2.63	0.43	1159	5.88	2.53	0.43	1228	5.70	2.45	0.43	1256	5.50	2.37	0.43	1311
22	18	5.88	3.47	0.59	1104	5.63	3.32	0.59	1159	5.40	3.19	0.59	1214	5.20	3.07	0.59	1270
22	20	6.13	2.88	0.47	1159	5.88	2.76	0.47	1228	5.70	2.68	0.47	1256	5.50	2.59	0.47	1311
22	22	6.38	2.23	0.35	1201	6.15	2.15	0.35	1277	6.00	2.10	0.35	1311	5.75	2.01	0.35	1366
23	18	5.88	3.70	0.63	1104	5.63	3.54	0.63	1159	5.40	3.40	0.63	1214	5.20	3.28	0.63	1270
23	20	6.13	3.12	0.51	1159	5.88	3.00	0.51	1228	5.70	2.91	0.51	1256	5.50	2.81	0.51	1311
23	22	6.38	2.49	0.39	1201	6.15	2.40	0.39	1277	6.00	2.34	0.39	1311	5.75	2.24	0.39	1366
24	18	5.88	3.94	0.67	1104	5.63	3.77	0.67	1159	5.40	3.62	0.67	1214	5.20	3.48	0.67	1270
24	20	6.13	3.37	0.55	1159	5.88	3.23	0.55	1228	5.70	3.14	0.55	1256	5.50	3.03	0.55	1311
24	22	6.38	2.74	0.43	1201	6.15	2.64	0.43	1277	6.00	2.58	0.43	1311	5.75	2.47	0.43	1366
24	24	6.70	2.08	0.31	1256	6.45	2.00	0.31	1325	6.30	1.95	0.31	1366	6.10	1.89	0.31	1435
25	18	5.88	4.17	0.71	1104	5.63	3.99	0.71	1159	5.40	3.83	0.71	1214	5.20	3.69	0.71	1270
25	20	6.13	3.61	0.59	1159	5.88	3.47	0.59	1228	5.70	3.36	0.59	1256	5.50	3.25	0.59	1311
25	22	6.38	3.00	0.47	1201	6.15	2.89	0.47	1277	6.00	2.82	0.47	1311	5.75	2.70	0.47	1366
25	24	6.70	2.35	0.35	1256	6.45	2.26	0.35	1325	6.30	2.21	0.35	1366	6.10	2.14	0.35	1435
26	18	5.88	4.41	0.75	1104	5.63	4.22	0.75	1159	5.40	4.05	0.75	1214	5.20	3.90	0.75	1270
26	20	6.13	3.86	0.63	1159	5.88	3.70	0.63	1228	5.70	3.59	0.63	1256	5.50	3.47	0.63	1311
26	22	6.38	3.25	0.51	1201	6.15	3.14	0.51	1277	6.00	3.06	0.51	1311	5.75	2.93	0.51	1366
26	24	6.70	2.61	0.39	1256	6.45	2.52	0.39	1325	6.30	2.46	0.39	1366	6.10	2.38	0.39	1435
26	26	6.90	1.86	0.27	1325	6.70	1.81	0.27	1394	6.60	1.78	0.27	1435	6.40	1.73	0.27	1477
27	18	5.88	4.64	0.79	1104	5.63	4.44	0.79	1159	5.40	4.27	0.79	1214	5.20	4.11	0.79	1270
27	20	6.13	4.10	0.67	1159	5.88	3.94	0.67	1228	5.70	3.82	0.67	1256	5.50	3.69	0.67	1311
27	22	6.38	3.51	0.55	1201	6.15	3.38	0.55	1277	6.00	3.30	0.55	1311	5.75	3.16	0.55	1366
27	24	6.70	2.88	0.43	1256	6.45	2.77	0.43	1325	6.30	2.71	0.43	1366	6.10	2.62	0.43	1435
27	26	6.90	2.14	0.31	1325	6.70	2.08	0.31	1394	6.60	2.05	0.31	1435	6.40	1.98	0.31	1477
28	18	5.88	4.88	0.83	1104	5.63	4.67	0.83	1159	5.40	4.48	0.83	1214	5.20	4.32	0.83	1270
28	20	6.13	4.35	0.71	1159	5.88	4.17	0.71	1228	5.70	4.05	0.71	1256	5.50	3.91	0.71	1311
28	22	6.38	3.76	0.59	1201	6.15	3.63	0.59	1277	6.00	3.54	0.59	1311	5.75	3.39	0.59	1366
28	24	6.70	3.15	0.47	1256	6.45	3.03	0.47	1325	6.30	2.96	0.47	1366	6.10	2.87	0.47	1435
28	26	6.90	2.42	0.35	1325	6.70	2.35	0.35	1394	6.60	2.31	0.35	1435	6.40	2.24	0.35	1477
29	18	5.88	5.11	0.87	1104	5.63	4.89	0.87	1159	5.40	4.70	0.87	1214	5.20	4.52	0.87	1270
29	20	6.13	4.59	0.75	1159	5.88	4.41	0.75	1228	5.70	4.28	0.75	1256	5.50	4.13	0.75	1311
29	22	6.38	4.02	0.63	1201	6.15	3.87	0.63	1277	6.00	3.78	0.63	1311	5.75	3.62	0.63	1366
29	24	6.70	3.42	0.51	1256	6.45	3.29	0.51	1325	6.30	3.21	0.51	1366	6.10	3.11	0.51	1435
29	26	6.90	2.69	0.39	1325	6.70	2.61	0.39	1394	6.60	2.57	0.39	1435	6.40	2.50	0.39	1477
30	18	5.88	5.35	0.91	1104	5.63	5.12	0.91	1159	5.40	4.91	0.91	1214	5.20	4.73	0.91	1270
30	20	6.13	4.84	0.79	1159	5.88	4.64	0.79	1228	5.70	4.50	0.79	1256	5.50	4.35	0.79	1311
30	22	6.38	4.27	0.67	1201	6.15	4.12	0.67	1277	6.00	4.02	0.67	1311	5.75	3.85	0.67	1366
30	24	6.70	3.69	0.55	1256	6.45	3.55	0.55	1325	6.30	3.47	0.55	1366	6.10	3.36	0.55	1435
30	26	6.90	2.97	0.43	1325	6.70	2.88	0.43	1394	6.60	2.84	0.43	1435	6.40	2.75	0.43	1477
31	18	5.88	5.58	0.95	1104	5.63	5.34	0.95	1159	5.40	5.13	0.95	1214	5.20	4.94	0.95	1270
31	20	6.13	5.08	0.83	1159	5.88	4.88	0.83	1228	5.70	4.73	0.83	1256	5.50	4.57	0.83	1311
31	22	6.38	4.53	0.71	1201	6.15	4.37	0.71	1277	6.00	4.26	0.71	1311	5.75	4.08	0.71	1366
31	24	6.70	3.95	0.59	1256	6.45	3.81	0.59	1325	6.30	3.72	0.59	1366	6.10	3.60	0.59	1435
31	26	6.90	3.24	0.47	1325	6.70	3.15	0.47	1394	6.60	3.10	0.47	1435	6.40	3.01	0.47	1477
32	18	5.88	5.82	0.99	1104	5.63	5.57	0.99	1159	5.40	5.35	0.99	1214	5.20	5.15	0.99	1270
32	20	6.13	5.33	0.87	1159	5.88	5.11	0.87	1228	5.70	4.96	0.87	1256	5.50	4.79	0.87	1311
32	22	6.38	4.78	0.75	1201	6.15	4.61	0.75	1277	6.00	4.50	0.75	1311	5.75	4.31	0.75	1366
32	24	6.70	4.22	0.63	1256	6.45	4.06	0.63	1325	6.30	3.97	0.63	1366	6.10	3.84	0.63	1435
32	26	6.90	3.52	0.51	1325	6.70	3.42	0.51	1394	6.60	3.37	0.51	1435	6.40	3.26	0.51	1477

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE CURVES COOL operation at Rated frequency

MSZ-FH50VE2: MUZ-FH50VEHZ

CAPACITY: 5.0 kW SHF: 0.73 INPUT: 1380 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)											
		35				40				46			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	4.90	2.70	0.55	1352	4.50	2.48	0.55	1435	4.15	2.28	0.55	1490
21	20	5.15	2.21	0.43	1408	4.80	2.06	0.43	1477	4.45	1.91	0.43	1559
22	18	4.90	2.89	0.59	1352	4.50	2.66	0.59	1435	4.15	2.45	0.59	1490
22	20	5.15	2.42	0.47	1408	4.80	2.26	0.47	1477	4.45	2.09	0.47	1559
22	22	5.45	1.91	0.35	1463	5.10	1.79	0.35	1546	4.75	1.66	0.35	1601
23	18	4.90	3.09	0.63	1352	4.50	2.84	0.63	1435	4.15	2.61	0.63	1490
23	20	5.15	2.63	0.51	1408	4.80	2.45	0.51	1477	4.45	2.27	0.51	1559
23	22	5.45	2.13	0.39	1463	5.10	1.99	0.39	1546	4.75	1.85	0.39	1601
24	18	4.90	3.28	0.67	1352	4.50	3.02	0.67	1435	4.15	2.78	0.67	1490
24	20	5.15	2.83	0.55	1408	4.80	2.64	0.55	1477	4.45	2.45	0.55	1559
24	22	5.45	2.34	0.43	1463	5.10	2.19	0.43	1546	4.75	2.04	0.43	1601
24	24	5.75	1.78	0.31	1518	5.40	1.67	0.31	1587	5.10	1.58	0.31	1656
25	18	4.90	3.48	0.71	1352	4.50	3.20	0.71	1435	4.15	2.95	0.71	1490
25	20	5.15	3.04	0.59	1408	4.80	2.83	0.59	1477	4.45	2.63	0.59	1559
25	22	5.45	2.56	0.47	1463	5.10	2.40	0.47	1546	4.75	2.23	0.47	1601
25	24	5.75	2.01	0.35	1518	5.40	1.89	0.35	1587	5.10	1.79	0.35	1656
26	18	4.90	3.68	0.75	1352	4.50	3.38	0.75	1435	4.15	3.11	0.75	1490
26	20	5.15	3.24	0.63	1408	4.80	3.02	0.63	1477	4.45	2.80	0.63	1559
26	22	5.45	2.78	0.51	1463	5.10	2.60	0.51	1546	4.75	2.42	0.51	1601
26	24	5.75	2.24	0.39	1518	5.40	2.11	0.39	1587	5.10	1.99	0.39	1656
26	26	6.05	1.63	0.27	1573	5.70	1.54	0.27	1642	5.35	1.44	0.27	1711
27	18	4.90	3.87	0.79	1352	4.50	3.56	0.79	1435	4.15	3.28	0.79	1490
27	20	5.15	3.45	0.67	1408	4.80	3.22	0.67	1477	4.45	2.98	0.67	1559
27	22	5.45	3.00	0.55	1463	5.10	2.81	0.55	1546	4.75	2.61	0.55	1601
27	24	5.75	2.47	0.43	1518	5.40	2.32	0.43	1587	5.10	2.19	0.43	1656
27	26	6.05	1.88	0.31	1573	5.70	1.77	0.31	1642	5.35	1.66	0.31	1711
28	18	4.90	4.07	0.83	1352	4.50	3.74	0.83	1435	4.15	3.44	0.83	1490
28	20	5.15	3.66	0.71	1408	4.80	3.41	0.71	1477	4.45	3.16	0.71	1559
28	22	5.45	3.22	0.59	1463	5.10	3.01	0.59	1546	4.75	2.80	0.59	1601
28	24	5.75	2.70	0.47	1518	5.40	2.54	0.47	1587	5.10	2.40	0.47	1656
28	26	6.05	2.12	0.35	1573	5.70	2.00	0.35	1642	5.35	1.87	0.35	1711
29	18	4.90	4.26	0.87	1352	4.50	3.92	0.87	1435	4.15	3.61	0.87	1490
29	20	5.15	3.86	0.75	1408	4.80	3.60	0.75	1477	4.45	3.34	0.75	1559
29	22	5.45	3.43	0.63	1463	5.10	3.21	0.63	1546	4.75	2.99	0.63	1601
29	24	5.75	2.93	0.51	1518	5.40	2.75	0.51	1587	5.10	2.60	0.51	1656
29	26	6.05	2.36	0.39	1573	5.70	2.22	0.39	1642	5.35	2.09	0.39	1711
30	18	4.90	4.46	0.91	1352	4.50	4.10	0.91	1435	4.15	3.78	0.91	1490
30	20	5.15	4.07	0.79	1408	4.80	3.79	0.79	1477	4.45	3.52	0.79	1559
30	22	5.45	3.65	0.67	1463	5.10	3.42	0.67	1546	4.75	3.18	0.67	1601
30	24	5.75	3.16	0.55	1518	5.40	2.97	0.55	1587	5.10	2.81	0.55	1656
30	26	6.05	2.60	0.43	1573	5.70	2.45	0.43	1642	5.35	2.30	0.43	1711
31	18	4.90	4.66	0.95	1352	4.50	4.28	0.95	1435	4.15	3.94	0.95	1490
31	20	5.15	4.27	0.83	1408	4.80	3.98	0.83	1477	4.45	3.69	0.83	1559
31	22	5.45	3.87	0.71	1463	5.10	3.62	0.71	1546	4.75	3.37	0.71	1601
31	24	5.75	3.39	0.59	1518	5.40	3.19	0.59	1587	5.10	3.01	0.59	1656
31	26	6.05	2.84	0.47	1573	5.70	2.68	0.47	1642	5.35	2.51	0.47	1711
32	18	4.90	4.85	0.99	1352	4.50	4.46	0.99	1435	4.15	4.11	0.99	1490
32	20	5.15	4.48	0.87	1408	4.80	4.18	0.87	1477	4.45	3.87	0.87	1559
32	22	5.45	4.09	0.75	1463	5.10	3.83	0.75	1546	4.75	3.56	0.75	1601
32	24	5.75	3.62	0.63	1518	5.40	3.40	0.63	1587	5.10	3.21	0.63	1656
32	26	6.05	3.09	0.51	1573	5.70	2.91	0.51	1642	5.35	2.73	0.51	1711

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE CURVES COOL operation at Rated frequency

MSZ-EF25VE3W MSZ-EF25VE3B MSZ-EF25VE3S: MUZ-EF25VE MUZ-EF25VEH

CAPACITY: 2.5 kW SHF: 0.92 INPUT: 545 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)															
		21				25				27				30			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	2.94	2.17	0.74	436	2.81	2.08	0.74	458	2.70	2.00	0.74	480	2.60	1.92	0.74	501
21	20	3.06	1.90	0.62	458	2.94	1.82	0.62	485	2.85	1.77	0.62	496	2.75	1.71	0.62	518
22	18	2.94	2.29	0.78	436	2.81	2.19	0.78	458	2.70	2.11	0.78	480	2.60	2.03	0.78	501
22	20	3.06	2.02	0.66	458	2.94	1.94	0.66	485	2.85	1.88	0.66	496	2.75	1.82	0.66	518
22	22	3.19	1.72	0.54	474	3.08	1.66	0.54	504	3.00	1.62	0.54	518	2.88	1.55	0.54	540
23	18	2.94	2.41	0.82	436	2.81	2.31	0.82	458	2.70	2.21	0.82	480	2.60	2.13	0.82	501
23	20	3.06	2.14	0.70	458	2.94	2.06	0.70	485	2.85	2.00	0.70	496	2.75	1.93	0.70	518
23	22	3.19	1.85	0.58	474	3.08	1.78	0.58	504	3.00	1.74	0.58	518	2.88	1.67	0.58	540
24	18	2.94	2.53	0.86	436	2.81	2.42	0.86	458	2.70	2.32	0.86	480	2.60	2.24	0.86	501
24	20	3.06	2.27	0.74	458	2.94	2.17	0.74	485	2.85	2.11	0.74	496	2.75	2.04	0.74	518
24	22	3.19	1.98	0.62	474	3.08	1.91	0.62	504	3.00	1.86	0.62	518	2.88	1.78	0.62	540
24	24	3.35	1.68	0.50	496	3.23	1.61	0.50	523	3.15	1.58	0.50	540	3.05	1.53	0.50	567
25	18	2.94	2.64	0.90	436	2.81	2.53	0.90	458	2.70	2.43	0.90	480	2.60	2.34	0.90	501
25	20	3.06	2.39	0.78	458	2.94	2.29	0.78	485	2.85	2.22	0.78	496	2.75	2.15	0.78	518
25	22	3.19	2.10	0.66	474	3.08	2.03	0.66	504	3.00	1.98	0.66	518	2.88	1.90	0.66	540
25	24	3.35	1.81	0.54	496	3.23	1.74	0.54	523	3.15	1.70	0.54	540	3.05	1.65	0.54	567
26	18	2.94	2.76	0.94	436	2.81	2.64	0.94	458	2.70	2.54	0.94	480	2.60	2.44	0.94	501
26	20	3.06	2.51	0.82	458	2.94	2.41	0.82	485	2.85	2.34	0.82	496	2.75	2.26	0.82	518
26	22	3.19	2.23	0.70	474	3.08	2.15	0.70	504	3.00	2.10	0.70	518	2.88	2.01	0.70	540
26	24	3.35	1.94	0.58	496	3.23	1.87	0.58	523	3.15	1.83	0.58	540	3.05	1.77	0.58	567
26	26	3.45	1.59	0.46	523	3.35	1.54	0.46	550	3.30	1.52	0.46	567	3.20	1.47	0.46	583
27	18	2.94	2.88	0.98	436	2.81	2.76	0.98	458	2.70	2.65	0.98	480	2.60	2.55	0.98	501
27	20	3.06	2.63	0.86	458	2.94	2.53	0.86	485	2.85	2.45	0.86	496	2.75	2.37	0.86	518
27	22	3.19	2.36	0.74	474	3.08	2.28	0.74	504	3.00	2.22	0.74	518	2.88	2.13	0.74	540
27	24	3.35	2.08	0.62	496	3.23	2.00	0.62	523	3.15	1.95	0.62	540	3.05	1.89	0.62	567
27	26	3.45	1.73	0.50	523	3.35	1.68	0.50	550	3.30	1.65	0.50	567	3.20	1.60	0.50	583
28	18	2.94	2.94	1.00	436	2.81	2.81	1.00	458	2.70	2.70	1.00	480	2.60	2.60	1.00	501
28	20	3.06	2.76	0.90	458	2.94	2.64	0.90	485	2.85	2.57	0.90	496	2.75	2.48	0.90	518
28	22	3.19	2.49	0.78	474	3.08	2.40	0.78	504	3.00	2.34	0.78	518	2.88	2.24	0.78	540
28	24	3.35	2.21	0.66	496	3.23	2.13	0.66	523	3.15	2.08	0.66	540	3.05	2.01	0.66	567
28	26	3.45	1.86	0.54	523	3.35	1.81	0.54	550	3.30	1.78	0.54	567	3.20	1.73	0.54	583
29	18	2.94	2.94	1.00	436	2.81	2.81	1.00	458	2.70	2.70	1.00	480	2.60	2.60	1.00	501
29	20	3.06	2.88	0.94	458	2.94	2.76	0.94	485	2.85	2.68	0.94	496	2.75	2.59	0.94	518
29	22	3.19	2.61	0.82	474	3.08	2.52	0.82	504	3.00	2.46	0.82	518	2.88	2.36	0.82	540
29	24	3.35	2.35	0.70	496	3.23	2.26	0.70	523	3.15	2.21	0.70	540	3.05	2.14	0.70	567
29	26	3.45	2.00	0.58	523	3.35	1.94	0.58	550	3.30	1.91	0.58	567	3.20	1.86	0.58	583
30	18	2.94	2.94	1.00	436	2.81	2.81	1.00	458	2.70	2.70	1.00	480	2.60	2.60	1.00	501
30	20	3.06	3.00	0.98	458	2.94	2.88	0.98	485	2.85	2.79	0.98	496	2.75	2.70	0.98	518
30	22	3.19	2.74	0.86	474	3.08	2.64	0.86	504	3.00	2.58	0.86	518	2.88	2.47	0.86	540
30	24	3.35	2.48	0.74	496	3.23	2.39	0.74	523	3.15	2.33	0.74	540	3.05	2.26	0.74	567
30	26	3.45	2.14	0.62	523	3.35	2.08	0.62	550	3.30	2.05	0.62	567	3.20	1.98	0.62	583
31	18	2.94	2.94	1.00	436	2.81	2.81	1.00	458	2.70	2.70	1.00	480	2.60	2.60	1.00	501
31	20	3.06	3.06	1.00	458	2.94	2.94	1.00	485	2.85	2.85	1.00	496	2.75	2.75	1.00	518
31	22	3.19	2.87	0.90	474	3.08	2.77	0.90	504	3.00	2.70	0.90	518	2.88	2.59	0.90	540
31	24	3.35	2.61	0.78	496	3.23	2.52	0.78	523	3.15	2.46	0.78	540	3.05	2.38	0.78	567
31	26	3.45	2.28	0.66	523	3.35	2.21	0.66	550	3.30	2.18	0.66	567	3.20	2.11	0.66	583
32	18	2.94	2.94	1.00	436	2.81	2.81	1.00	458	2.70	2.70	1.00	480	2.60	2.60	1.00	501
32	20	3.06	3.06	1.00	458	2.94	2.94	1.00	485	2.85	2.85	1.00	496	2.75	2.75	1.00	518
32	22	3.19	3.00	0.94	474	3.08	2.89	0.94	504	3.00	2.82	0.94	518	2.88	2.70	0.94	540
32	24	3.35	2.75	0.82	496	3.23	2.64	0.82	523	3.15	2.58	0.82	540	3.05	2.50	0.82	567
32	26	3.45	2.42	0.70	523	3.35	2.35	0.70	550	3.30	2.31	0.70	567	3.20	2.24	0.70	583

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE CURVES COOL operation at Rated frequency

MSZ-EF25VE3W MSZ-EF25VE3B MSZ-EF25VE3S: MUZ-EF25VE MUZ-EF25VEH

CAPACITY: 2.5 kW SHF: 0.92 INPUT: 545 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)											
		35				40				46			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	2.45	1.81	0.74	534	2.25	1.67	0.74	567	2.08	1.54	0.74	589
21	20	2.58	1.60	0.62	556	2.40	1.49	0.62	583	2.23	1.38	0.62	616
22	18	2.45	1.91	0.78	534	2.25	1.76	0.78	567	2.08	1.62	0.78	589
22	20	2.58	1.70	0.66	556	2.40	1.58	0.66	583	2.23	1.47	0.66	616
22	22	2.73	1.47	0.54	578	2.55	1.38	0.54	610	2.38	1.28	0.54	632
23	18	2.45	2.01	0.82	534	2.25	1.85	0.82	567	2.08	1.70	0.82	589
23	20	2.58	1.80	0.70	556	2.40	1.68	0.70	583	2.23	1.56	0.70	616
23	22	2.73	1.58	0.58	578	2.55	1.48	0.58	610	2.38	1.38	0.58	632
24	18	2.45	2.11	0.86	534	2.25	1.94	0.86	567	2.08	1.78	0.86	589
24	20	2.58	1.91	0.74	556	2.40	1.78	0.74	583	2.23	1.65	0.74	616
24	22	2.73	1.69	0.62	578	2.55	1.58	0.62	610	2.38	1.47	0.62	632
24	24	2.88	1.44	0.50	600	2.70	1.35	0.50	627	2.55	1.28	0.50	654
25	18	2.45	2.21	0.90	534	2.25	2.03	0.90	567	2.08	1.87	0.9	589
25	20	2.58	2.01	0.78	556	2.40	1.87	0.78	583	2.23	1.74	0.78	616
25	22	2.73	1.80	0.66	578	2.55	1.68	0.66	610	2.38	1.57	0.66	632
25	24	2.88	1.55	0.54	600	2.70	1.46	0.54	627	2.55	1.38	0.54	654
26	18	2.45	2.30	0.94	534	2.25	2.12	0.94	567	2.08	1.95	0.94	589
26	20	2.58	2.11	0.82	556	2.40	1.97	0.82	583	2.23	1.82	0.82	616
26	22	2.73	1.91	0.70	578	2.55	1.79	0.70	610	2.38	1.66	0.70	632
26	24	2.88	1.67	0.58	600	2.70	1.57	0.58	627	2.55	1.48	0.58	654
26	26	3.03	1.39	0.46	621	2.85	1.31	0.46	649	2.68	1.23	0.46	676
27	18	2.45	2.40	0.98	534	2.25	2.21	0.98	567	2.08	2.03	0.98	589
27	20	2.58	2.21	0.86	556	2.40	2.06	0.86	583	2.23	1.91	0.86	616
27	22	2.73	2.02	0.74	578	2.55	1.89	0.74	610	2.38	1.76	0.74	632
27	24	2.88	1.78	0.62	600	2.70	1.67	0.62	627	2.55	1.58	0.62	654
27	26	3.03	1.51	0.50	621	2.85	1.43	0.50	649	2.68	1.34	0.50	676
28	18	2.45	2.45	1.00	534	2.25	2.25	1.00	567	2.08	2.08	1.00	589
28	20	2.58	2.32	0.90	556	2.40	2.16	0.90	583	2.23	2.00	0.90	616
28	22	2.73	2.13	0.78	578	2.55	1.99	0.78	610	2.38	1.85	0.78	632
28	24	2.88	1.90	0.66	600	2.70	1.78	0.66	627	2.55	1.68	0.66	654
28	26	3.03	1.63	0.54	621	2.85	1.54	0.54	649	2.68	1.44	0.54	676
29	18	2.45	2.45	1.00	534	2.25	2.25	1.00	567	2.08	2.08	1.00	589
29	20	2.58	2.42	0.94	556	2.40	2.26	0.94	583	2.23	2.09	0.94	616
29	22	2.73	2.23	0.82	578	2.55	2.09	0.82	610	2.38	1.95	0.82	632
29	24	2.88	2.01	0.70	600	2.70	1.89	0.70	627	2.55	1.79	0.70	654
29	26	3.03	1.75	0.58	621	2.85	1.65	0.58	649	2.68	1.55	0.58	676
30	18	2.45	2.45	1.00	534	2.25	2.25	1.00	567	2.08	2.08	1.00	589
30	20	2.58	2.52	0.98	556	2.40	2.35	0.98	583	2.23	2.18	0.98	616
30	22	2.73	2.34	0.86	578	2.55	2.19	0.86	610	2.38	2.04	0.86	632
30	24	2.88	2.13	0.74	600	2.70	2.00	0.74	627	2.55	1.89	0.74	654
30	26	3.03	1.88	0.62	621	2.85	1.77	0.62	649	2.68	1.66	0.62	676
31	18	2.45	2.45	1.00	534	2.25	2.25	1.00	567	2.08	2.08	1.00	589
31	20	2.58	2.58	1.00	556	2.40	2.40	1.00	583	2.23	2.23	1.00	616
31	22	2.73	2.45	0.90	578	2.55	2.30	0.90	610	2.38	2.14	0.90	632
31	24	2.88	2.24	0.78	600	2.70	2.11	0.78	627	2.55	1.99	0.78	654
31	26	3.03	2.00	0.66	621	2.85	1.88	0.66	649	2.68	1.77	0.66	676
32	18	2.45	2.45	1.00	534	2.25	2.25	1.00	567	2.08	2.08	1.00	589
32	20	2.58	2.58	1.00	556	2.40	2.40	1.00	583	2.23	2.23	1.00	616
32	22	2.73	2.56	0.94	578	2.55	2.40	0.94	610	2.38	2.23	0.94	632
32	24	2.88	2.36	0.82	600	2.70	2.21	0.82	627	2.55	2.09	0.82	654
32	26	3.03	2.12	0.70	621	2.85	2.00	0.70	649	2.68	1.87	0.70	676

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE CURVES COOL operation at Rated frequency

MSZ-EF35VE3W MSZ-EF35VE3B MSZ-EF35VE3S: MUZ-EF35VE MUZ-EF35VEH

CAPACITY: 3.5 kW SHF: 0.80 INPUT: 910 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)															
		21				25				27				30			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	4.11	2.55	0.62	728	3.94	2.44	0.62	764	3.78	2.34	0.62	801	3.64	2.26	0.62	837
21	20	4.29	2.14	0.50	764	4.11	2.06	0.50	810	3.99	2.00	0.50	828	3.85	1.93	0.50	865
22	18	4.11	2.71	0.66	728	3.94	2.60	0.66	764	3.78	2.49	0.66	801	3.64	2.40	0.66	837
22	20	4.29	2.32	0.54	764	4.11	2.22	0.54	810	3.99	2.15	0.54	828	3.85	2.08	0.54	865
22	22	4.46	1.87	0.42	792	4.31	1.81	0.42	842	4.20	1.76	0.42	865	4.03	1.69	0.42	901
23	18	4.11	2.88	0.70	728	3.94	2.76	0.70	764	3.78	2.65	0.70	801	3.64	2.55	0.70	837
23	20	4.29	2.49	0.58	764	4.11	2.39	0.58	810	3.99	2.31	0.58	828	3.85	2.23	0.58	865
23	22	4.46	2.05	0.46	792	4.31	1.98	0.46	842	4.20	1.93	0.46	865	4.03	1.85	0.46	901
24	18	4.11	3.04	0.74	728	3.94	2.91	0.74	764	3.78	2.80	0.74	801	3.64	2.69	0.74	837
24	20	4.29	2.66	0.62	764	4.11	2.55	0.62	810	3.99	2.47	0.62	828	3.85	2.39	0.62	865
24	22	4.46	2.23	0.50	792	4.31	2.15	0.50	842	4.20	2.10	0.50	865	4.03	2.01	0.50	901
24	24	4.69	1.78	0.38	828	4.52	1.72	0.38	874	4.41	1.68	0.38	901	4.27	1.62	0.38	946
25	18	4.11	3.21	0.78	728	3.94	3.07	0.78	764	3.78	2.95	0.78	801	3.64	2.84	0.78	837
25	20	4.29	2.83	0.66	764	4.11	2.71	0.66	810	3.99	2.63	0.66	828	3.85	2.54	0.66	865
25	22	4.46	2.41	0.54	792	4.31	2.32	0.54	842	4.20	2.27	0.54	865	4.03	2.17	0.54	901
25	24	4.69	1.97	0.42	828	4.52	1.90	0.42	874	4.41	1.85	0.42	901	4.27	1.79	0.42	946
26	18	4.11	3.37	0.82	728	3.94	3.23	0.82	764	3.78	3.10	0.82	801	3.64	2.98	0.82	837
26	20	4.29	3.00	0.70	764	4.11	2.88	0.70	810	3.99	2.79	0.70	828	3.85	2.70	0.70	865
26	22	4.46	2.59	0.58	792	4.31	2.50	0.58	842	4.20	2.44	0.58	865	4.03	2.33	0.58	901
26	24	4.69	2.16	0.46	828	4.52	2.08	0.46	874	4.41	2.03	0.46	901	4.27	1.96	0.46	946
26	26	4.83	1.64	0.34	874	4.69	1.59	0.34	919	4.62	1.57	0.34	946	4.48	1.52	0.34	974
27	18	4.11	3.54	0.86	728	3.94	3.39	0.86	764	3.78	3.25	0.86	801	3.64	3.13	0.86	837
27	20	4.29	3.17	0.74	764	4.11	3.04	0.74	810	3.99	2.95	0.74	828	3.85	2.85	0.74	865
27	22	4.46	2.77	0.62	792	4.31	2.67	0.62	842	4.20	2.60	0.62	865	4.03	2.50	0.62	901
27	24	4.69	2.35	0.50	828	4.52	2.26	0.50	874	4.41	2.21	0.50	901	4.27	2.14	0.50	946
27	26	4.83	1.84	0.38	874	4.69	1.78	0.38	919	4.62	1.76	0.38	946	4.48	1.70	0.38	974
28	18	4.11	3.70	0.90	728	3.94	3.54	0.90	764	3.78	3.40	0.90	801	3.64	3.28	0.90	837
28	20	4.29	3.34	0.78	764	4.11	3.21	0.78	810	3.99	3.11	0.78	828	3.85	3.00	0.78	865
28	22	4.46	2.95	0.66	792	4.31	2.84	0.66	842	4.20	2.77	0.66	865	4.03	2.66	0.66	901
28	24	4.69	2.53	0.54	828	4.52	2.44	0.54	874	4.41	2.38	0.54	901	4.27	2.31	0.54	946
28	26	4.83	2.03	0.42	874	4.69	1.97	0.42	919	4.62	1.94	0.42	946	4.48	1.88	0.42	974
29	18	4.11	3.87	0.94	728	3.94	3.70	0.94	764	3.78	3.55	0.94	801	3.64	3.42	0.94	837
29	20	4.29	3.52	0.82	764	4.11	3.37	0.82	810	3.99	3.27	0.82	828	3.85	3.16	0.82	865
29	22	4.46	3.12	0.70	792	4.31	3.01	0.70	842	4.20	2.94	0.70	865	4.03	2.82	0.70	901
29	24	4.69	2.72	0.58	828	4.52	2.62	0.58	874	4.41	2.56	0.58	901	4.27	2.48	0.58	946
29	26	4.83	2.22	0.46	874	4.69	2.16	0.46	919	4.62	2.13	0.46	946	4.48	2.06	0.46	974
30	18	4.11	4.03	0.98	728	3.94	3.86	0.98	764	3.78	3.70	0.98	801	3.64	3.57	0.98	837
30	20	4.29	3.69	0.86	764	4.11	3.54	0.86	810	3.99	3.43	0.86	828	3.85	3.31	0.86	865
30	22	4.46	3.30	0.74	792	4.31	3.19	0.74	842	4.20	3.11	0.74	865	4.03	2.98	0.74	901
30	24	4.69	2.91	0.62	828	4.52	2.80	0.62	874	4.41	2.73	0.62	901	4.27	2.65	0.62	946
30	26	4.83	2.42	0.50	874	4.69	2.35	0.50	919	4.62	2.31	0.50	946	4.48	2.24	0.50	974
31	18	4.11	4.11	1.00	728	3.94	3.94	1.00	764	3.78	3.78	1.00	801	3.64	3.64	1.00	837
31	20	4.29	3.86	0.90	764	4.11	3.70	0.90	810	3.99	3.59	0.90	828	3.85	3.47	0.90	865
31	22	4.46	3.48	0.78	792	4.31	3.36	0.78	842	4.20	3.28	0.78	865	4.03	3.14	0.78	901
31	24	4.69	3.10	0.66	828	4.52	2.98	0.66	874	4.41	2.91	0.66	901	4.27	2.82	0.66	946
31	26	4.83	2.61	0.54	874	4.69	2.53	0.54	919	4.62	2.49	0.54	946	4.48	2.42	0.54	974
32	18	4.11	4.11	1.00	728	3.94	3.94	1.00	764	3.78	3.78	1.00	801	3.64	3.64	1.00	837
32	20	4.29	4.03	0.94	764	4.11	3.87	0.94	810	3.99	3.75	0.94	828	3.85	3.62	0.94	865
32	22	4.46	3.66	0.82	792	4.31	3.53	0.82	842	4.20	3.44	0.82	865	4.03	3.30	0.82	901
32	24	4.69	3.28	0.70	828	4.52	3.16	0.70	874	4.41	3.09	0.70	901	4.27	2.99	0.70	946
32	26	4.83	2.80	0.58	874	4.69	2.72	0.58	919	4.62	2.68	0.58	946	4.48	2.60	0.58	974

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE CURVES COOL operation at Rated frequency

MSZ-EF35VE3W MSZ-EF35VE3B MSZ-EF35VE3S: MUZ-EF35VE MUZ-EF35VEH

CAPACITY: 3.5 kW SHF: 0.80 INPUT: 910 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)											
		35				40				46			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	3.43	2.13	0.62	892	3.15	1.95	0.62	946	2.91	1.80	0.62	983
21	20	3.61	1.80	0.50	928	3.36	1.68	0.50	974	3.12	1.56	0.50	1028
22	18	3.43	2.26	0.66	892	3.15	2.08	0.66	946	2.91	1.92	0.66	983
22	20	3.61	1.95	0.54	928	3.36	1.81	0.54	974	3.12	1.68	0.54	1028
22	22	3.82	1.60	0.42	965	3.57	1.50	0.42	1019	3.33	1.40	0.42	1056
23	18	3.43	2.40	0.70	892	3.15	2.21	0.70	946	2.91	2.03	0.70	983
23	20	3.61	2.09	0.58	928	3.36	1.95	0.58	974	3.12	1.81	0.58	1028
23	22	3.82	1.75	0.46	965	3.57	1.64	0.46	1019	3.33	1.53	0.46	1056
24	18	3.43	2.54	0.74	892	3.15	2.33	0.74	946	2.91	2.15	0.74	983
24	20	3.61	2.24	0.62	928	3.36	2.08	0.62	974	3.12	1.93	0.62	1028
24	22	3.82	1.91	0.50	965	3.57	1.79	0.50	1019	3.33	1.66	0.50	1056
24	24	4.03	1.53	0.38	1001	3.78	1.44	0.38	1047	3.57	1.36	0.38	1092
25	18	3.43	2.68	0.78	892	3.15	2.46	0.78	946	2.91	2.27	0.78	983
25	20	3.61	2.38	0.66	928	3.36	2.22	0.66	974	3.12	2.06	0.66	1028
25	22	3.82	2.06	0.54	965	3.57	1.93	0.54	1019	3.33	1.80	0.54	1056
25	24	4.03	1.69	0.42	1001	3.78	1.59	0.42	1047	3.57	1.50	0.42	1092
26	18	3.43	2.81	0.82	892	3.15	2.58	0.82	946	2.91	2.38	0.82	983
26	20	3.61	2.52	0.70	928	3.36	2.35	0.70	974	3.12	2.18	0.70	1028
26	22	3.82	2.21	0.58	965	3.57	2.07	0.58	1019	3.33	1.93	0.58	1056
26	24	4.03	1.85	0.46	1001	3.78	1.74	0.46	1047	3.57	1.64	0.46	1092
26	26	4.24	1.44	0.34	1037	3.99	1.36	0.34	1083	3.75	1.27	0.34	1128
27	18	3.43	2.95	0.86	892	3.15	2.71	0.86	946	2.91	2.50	0.86	983
27	20	3.61	2.67	0.74	928	3.36	2.49	0.74	974	3.12	2.31	0.74	1028
27	22	3.82	2.37	0.62	965	3.57	2.21	0.62	1019	3.33	2.06	0.62	1056
27	24	4.03	2.01	0.50	1001	3.78	1.89	0.50	1047	3.57	1.79	0.50	1092
27	26	4.24	1.61	0.38	1037	3.99	1.52	0.38	1083	3.75	1.42	0.38	1128
28	18	3.43	3.09	0.90	892	3.15	2.84	0.90	946	2.91	2.61	0.90	983
28	20	3.61	2.81	0.78	928	3.36	2.62	0.78	974	3.12	2.43	0.78	1028
28	22	3.82	2.52	0.66	965	3.57	2.36	0.66	1019	3.33	2.19	0.66	1056
28	24	4.03	2.17	0.54	1001	3.78	2.04	0.54	1047	3.57	1.93	0.54	1092
28	26	4.24	1.78	0.42	1037	3.99	1.68	0.42	1083	3.75	1.57	0.42	1128
29	18	3.43	3.22	0.94	892	3.15	2.96	0.94	946	2.91	2.73	0.94	983
29	20	3.61	2.96	0.82	928	3.36	2.76	0.82	974	3.12	2.55	0.82	1028
29	22	3.82	2.67	0.70	965	3.57	2.50	0.70	1019	3.33	2.33	0.70	1056
29	24	4.03	2.33	0.58	1001	3.78	2.19	0.58	1047	3.57	2.07	0.58	1092
29	26	4.24	1.95	0.46	1037	3.99	1.84	0.46	1083	3.75	1.72	0.46	1128
30	18	3.43	3.36	0.98	892	3.15	3.09	0.98	946	2.91	2.85	0.98	983
30	20	3.61	3.10	0.86	928	3.36	2.89	0.86	974	3.12	2.68	0.86	1028
30	22	3.82	2.82	0.74	965	3.57	2.64	0.74	1019	3.33	2.46	0.74	1056
30	24	4.03	2.50	0.62	1001	3.78	2.34	0.62	1047	3.57	2.21	0.62	1092
30	26	4.24	2.12	0.50	1037	3.99	2.00	0.50	1083	3.75	1.87	0.50	1128
31	18	3.43	3.43	1.00	892	3.15	3.15	1.00	946	2.91	2.91	1.00	983
31	20	3.61	3.24	0.90	928	3.36	3.02	0.90	974	3.12	2.80	0.90	1028
31	22	3.82	2.98	0.78	965	3.57	2.78	0.78	1019	3.33	2.59	0.78	1056
31	24	4.03	2.66	0.66	1001	3.78	2.49	0.66	1047	3.57	2.36	0.66	1092
31	26	4.24	2.29	0.54	1037	3.99	2.15	0.54	1083	3.75	2.02	0.54	1128
32	18	3.43	3.43	1.00	892	3.15	3.15	1.00	946	2.91	2.91	1.00	983
32	20	3.61	3.39	0.94	928	3.36	3.16	0.94	974	3.12	2.93	0.94	1028
32	22	3.82	3.13	0.82	965	3.57	2.93	0.82	1019	3.33	2.73	0.82	1056
32	24	4.03	2.82	0.70	1001	3.78	2.65	0.70	1047	3.57	2.50	0.70	1092
32	26	4.24	2.46	0.58	1037	3.99	2.31	0.58	1083	3.75	2.17	0.58	1128

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE CURVES COOL operation at Rated frequency

MSZ-EF42VE3W MSZ-EF42VE3B MSZ-EF42VE3S: MUZ-EF42VE

CAPACITY: 4.2 kW SHF: 0.72 INPUT: 1280 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)															
		21				25				27				30			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	4.94	2.66	0.54	1024	4.73	2.55	0.54	1075	4.54	2.45	0.54	1126	4.37	2.36	0.54	1178
21	20	5.15	2.16	0.42	1075	4.94	2.07	0.42	1139	4.79	2.01	0.42	1165	4.62	1.94	0.42	1216
22	18	4.94	2.86	0.58	1024	4.73	2.74	0.58	1075	4.54	2.63	0.58	1126	4.37	2.53	0.58	1178
22	20	5.15	2.37	0.46	1075	4.94	2.27	0.46	1139	4.79	2.20	0.46	1165	4.62	2.13	0.46	1216
22	22	5.36	1.82	0.34	1114	5.17	1.76	0.34	1184	5.04	1.71	0.34	1216	4.83	1.64	0.34	1267
23	18	4.94	3.06	0.62	1024	4.73	2.93	0.62	1075	4.54	2.81	0.62	1126	4.37	2.71	0.62	1178
23	20	5.15	2.57	0.50	1075	4.94	2.47	0.50	1139	4.79	2.39	0.50	1165	4.62	2.31	0.50	1216
23	22	5.36	2.03	0.38	1114	5.17	1.96	0.38	1184	5.04	1.92	0.38	1216	4.83	1.84	0.38	1267
24	18	4.94	3.26	0.66	1024	4.73	3.12	0.66	1075	4.54	2.99	0.66	1126	4.37	2.88	0.66	1178
24	20	5.15	2.78	0.54	1075	4.94	2.66	0.54	1139	4.79	2.59	0.54	1165	4.62	2.49	0.54	1216
24	22	5.36	2.25	0.42	1114	5.17	2.17	0.42	1184	5.04	2.12	0.42	1216	4.83	2.03	0.42	1267
24	24	5.63	1.69	0.30	1165	5.42	1.63	0.30	1229	5.29	1.59	0.30	1267	5.12	1.54	0.30	1331
25	18	4.94	3.45	0.70	1024	4.73	3.31	0.70	1075	4.54	3.18	0.70	1126	4.37	3.06	0.70	1178
25	20	5.15	2.98	0.58	1075	4.94	2.86	0.58	1139	4.79	2.78	0.58	1165	4.62	2.68	0.58	1216
25	22	5.36	2.46	0.46	1114	5.17	2.38	0.46	1184	5.04	2.32	0.46	1216	4.83	2.22	0.46	1267
25	24	5.63	1.91	0.34	1165	5.42	1.84	0.34	1229	5.29	1.80	0.34	1267	5.12	1.74	0.34	1331
26	18	4.94	3.65	0.74	1024	4.73	3.50	0.74	1075	4.54	3.36	0.74	1126	4.37	3.23	0.74	1178
26	20	5.15	3.19	0.62	1075	4.94	3.06	0.62	1139	4.79	2.97	0.62	1165	4.62	2.86	0.62	1216
26	22	5.36	2.68	0.50	1114	5.17	2.58	0.50	1184	5.04	2.52	0.50	1216	4.83	2.42	0.50	1267
26	24	5.63	2.14	0.38	1165	5.42	2.06	0.38	1229	5.29	2.01	0.38	1267	5.12	1.95	0.38	1331
26	26	5.80	1.51	0.26	1229	5.63	1.46	0.26	1293	5.54	1.44	0.26	1331	5.38	1.40	0.26	1370
27	18	4.94	3.85	0.78	1024	4.73	3.69	0.78	1075	4.54	3.54	0.78	1126	4.37	3.41	0.78	1178
27	20	5.15	3.40	0.66	1075	4.94	3.26	0.66	1139	4.79	3.16	0.66	1165	4.62	3.05	0.66	1216
27	22	5.36	2.89	0.54	1114	5.17	2.79	0.54	1184	5.04	2.72	0.54	1216	4.83	2.61	0.54	1267
27	24	5.63	2.36	0.42	1165	5.42	2.28	0.42	1229	5.29	2.22	0.42	1267	5.12	2.15	0.42	1331
27	26	5.80	1.74	0.30	1229	5.63	1.69	0.30	1293	5.54	1.66	0.30	1331	5.38	1.61	0.30	1370
28	18	4.94	4.05	0.82	1024	4.73	3.87	0.82	1075	4.54	3.72	0.82	1126	4.37	3.58	0.82	1178
28	20	5.15	3.60	0.70	1075	4.94	3.45	0.70	1139	4.79	3.35	0.70	1165	4.62	3.23	0.70	1216
28	22	5.36	3.11	0.58	1114	5.17	3.00	0.58	1184	5.04	2.92	0.58	1216	4.83	2.80	0.58	1267
28	24	5.63	2.59	0.46	1165	5.42	2.49	0.46	1229	5.29	2.43	0.46	1267	5.12	2.36	0.46	1331
28	26	5.80	1.97	0.34	1229	5.63	1.91	0.34	1293	5.54	1.88	0.34	1331	5.38	1.83	0.34	1370
29	18	4.94	4.24	0.86	1024	4.73	4.06	0.86	1075	4.54	3.90	0.86	1126	4.37	3.76	0.86	1178
29	20	5.15	3.81	0.74	1075	4.94	3.65	0.74	1139	4.79	3.54	0.74	1165	4.62	3.42	0.74	1216
29	22	5.36	3.32	0.62	1114	5.17	3.20	0.62	1184	5.04	3.12	0.62	1216	4.83	2.99	0.62	1267
29	24	5.63	2.81	0.50	1165	5.42	2.71	0.50	1229	5.29	2.65	0.50	1267	5.12	2.56	0.50	1331
29	26	5.80	2.20	0.38	1229	5.63	2.14	0.38	1293	5.54	2.11	0.38	1331	5.38	2.04	0.38	1370
30	18	4.94	4.44	0.90	1024	4.73	4.25	0.90	1075	4.54	4.08	0.90	1126	4.37	3.93	0.90	1178
30	20	5.15	4.01	0.78	1075	4.94	3.85	0.78	1139	4.79	3.73	0.78	1165	4.62	3.60	0.78	1216
30	22	5.36	3.53	0.66	1114	5.17	3.41	0.66	1184	5.04	3.33	0.66	1216	4.83	3.19	0.66	1267
30	24	5.63	3.04	0.54	1165	5.42	2.93	0.54	1229	5.29	2.86	0.54	1267	5.12	2.77	0.54	1331
30	26	5.80	2.43	0.42	1229	5.63	2.36	0.42	1293	5.54	2.33	0.42	1331	5.38	2.26	0.42	1370
31	18	4.94	4.64	0.94	1024	4.73	4.44	0.94	1075	4.54	4.26	0.94	1126	4.37	4.11	0.94	1178
31	20	5.15	4.22	0.82	1075	4.94	4.05	0.82	1139	4.79	3.93	0.82	1165	4.62	3.79	0.82	1216
31	22	5.36	3.75	0.70	1114	5.17	3.62	0.70	1184	5.04	3.53	0.70	1216	4.83	3.38	0.70	1267
31	24	5.63	3.26	0.58	1165	5.42	3.14	0.58	1229	5.29	3.07	0.58	1267	5.12	2.97	0.58	1331
31	26	5.80	2.67	0.46	1229	5.63	2.59	0.46	1293	5.54	2.55	0.46	1331	5.38	2.47	0.46	1370
32	18	4.94	4.84	0.98	1024	4.73	4.63	0.98	1075	4.54	4.45	0.98	1126	4.37	4.28	0.98	1178
32	20	5.15	4.42	0.86	1075	4.94	4.24	0.86	1139	4.79	4.12	0.86	1165	4.62	3.97	0.86	1216
32	22	5.36	3.96	0.74	1114	5.17	3.82	0.74	1184	5.04	3.73	0.74	1216	4.83	3.57	0.74	1267
32	24	5.63	3.49	0.62	1165	5.42	3.36	0.62	1229	5.29	3.28	0.62	1267	5.12	3.18	0.62	1331
32	26	5.80	2.90	0.50	1229	5.63	2.81	0.50	1293	5.54	2.77	0.50	1331	5.38	2.69	0.50	1370

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE CURVES COOL operation at Rated frequency

MSZ-EF42VE3W MSZ-EF42VE3B MSZ-EF42VE3S: MUZ-EF42VE

CAPACITY: 4.2 kW SHF: 0.72 INPUT: 1280 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)											
		35				40				46			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	4.12	2.22	0.54	1254	3.78	2.04	0.54	1331	3.49	1.88	0.54	1382
21	20	4.33	1.82	0.42	1306	4.03	1.69	0.42	1370	3.74	1.57	0.42	1446
22	18	4.12	2.39	0.58	1254	3.78	2.19	0.58	1331	3.49	2.02	0.58	1382
22	20	4.33	1.99	0.46	1306	4.03	1.85	0.46	1370	3.74	1.72	0.46	1446
22	22	4.58	1.56	0.34	1357	4.28	1.46	0.34	1434	3.99	1.36	0.34	1485
23	18	4.12	2.55	0.62	1254	3.78	2.34	0.62	1331	3.49	2.16	0.62	1382
23	20	4.33	2.16	0.50	1306	4.03	2.02	0.50	1370	3.74	1.87	0.50	1446
23	22	4.58	1.74	0.38	1357	4.28	1.63	0.38	1434	3.99	1.52	0.38	1485
24	18	4.12	2.72	0.66	1254	3.78	2.49	0.66	1331	3.49	2.30	0.66	1382
24	20	4.33	2.34	0.54	1306	4.03	2.18	0.54	1370	3.74	2.02	0.54	1446
24	22	4.58	1.92	0.42	1357	4.28	1.80	0.42	1434	3.99	1.68	0.42	1485
24	24	4.83	1.45	0.30	1408	4.54	1.36	0.30	1472	4.28	1.29	0.30	1536
25	18	4.12	2.88	0.70	1254	3.78	2.65	0.70	1331	3.49	2.44	0.7	1382
25	20	4.33	2.51	0.58	1306	4.03	2.34	0.58	1370	3.74	2.17	0.58	1446
25	22	4.58	2.11	0.46	1357	4.28	1.97	0.46	1434	3.99	1.84	0.46	1485
25	24	4.83	1.64	0.34	1408	4.54	1.54	0.34	1472	4.28	1.46	0.34	1536
26	18	4.12	3.05	0.74	1254	3.78	2.80	0.74	1331	3.49	2.58	0.74	1382
26	20	4.33	2.68	0.62	1306	4.03	2.50	0.62	1370	3.74	2.32	0.62	1446
26	22	4.58	2.29	0.50	1357	4.28	2.14	0.50	1434	3.99	2.00	0.50	1485
26	24	4.83	1.84	0.38	1408	4.54	1.72	0.38	1472	4.28	1.63	0.38	1536
26	26	5.08	1.32	0.26	1459	4.79	1.24	0.26	1523	4.49	1.17	0.26	1587
27	18	4.12	3.21	0.78	1254	3.78	2.95	0.78	1331	3.49	2.72	0.78	1382
27	20	4.33	2.86	0.66	1306	4.03	2.66	0.66	1370	3.74	2.47	0.66	1446
27	22	4.58	2.47	0.54	1357	4.28	2.31	0.54	1434	3.99	2.15	0.54	1485
27	24	4.83	2.03	0.42	1408	4.54	1.91	0.42	1472	4.28	1.80	0.42	1536
27	26	5.08	1.52	0.30	1459	4.79	1.44	0.30	1523	4.49	1.35	0.30	1587
28	18	4.12	3.38	0.82	1254	3.78	3.10	0.82	1331	3.49	2.86	0.82	1382
28	20	4.33	3.03	0.70	1306	4.03	2.82	0.70	1370	3.74	2.62	0.70	1446
28	22	4.58	2.66	0.58	1357	4.28	2.48	0.58	1434	3.99	2.31	0.58	1485
28	24	4.83	2.22	0.46	1408	4.54	2.09	0.46	1472	4.28	1.97	0.46	1536
28	26	5.08	1.73	0.34	1459	4.79	1.63	0.34	1523	4.49	1.53	0.34	1587
29	18	4.12	3.54	0.86	1254	3.78	3.25	0.86	1331	3.49	3.00	0.86	1382
29	20	4.33	3.20	0.74	1306	4.03	2.98	0.74	1370	3.74	2.77	0.74	1446
29	22	4.58	2.84	0.62	1357	4.28	2.66	0.62	1434	3.99	2.47	0.62	1485
29	24	4.83	2.42	0.50	1408	4.54	2.27	0.50	1472	4.28	2.14	0.50	1536
29	26	5.08	1.93	0.38	1459	4.79	1.82	0.38	1523	4.49	1.71	0.38	1587
30	18	4.12	3.70	0.90	1254	3.78	3.40	0.90	1331	3.49	3.14	0.90	1382
30	20	4.33	3.37	0.78	1306	4.03	3.14	0.78	1370	3.74	2.92	0.78	1446
30	22	4.58	3.02	0.66	1357	4.28	2.83	0.66	1434	3.99	2.63	0.66	1485
30	24	4.83	2.61	0.54	1408	4.54	2.45	0.54	1472	4.28	2.31	0.54	1536
30	26	5.08	2.13	0.42	1459	4.79	2.01	0.42	1523	4.49	1.89	0.42	1587
31	18	4.12	3.87	0.94	1254	3.78	3.55	0.94	1331	3.49	3.28	0.94	1382
31	20	4.33	3.55	0.82	1306	4.03	3.31	0.82	1370	3.74	3.07	0.82	1446
31	22	4.58	3.20	0.70	1357	4.28	3.00	0.70	1434	3.99	2.79	0.70	1485
31	24	4.83	2.80	0.58	1408	4.54	2.63	0.58	1472	4.28	2.48	0.58	1536
31	26	5.08	2.34	0.46	1459	4.79	2.20	0.46	1523	4.49	2.07	0.46	1587
32	18	4.12	4.03	0.98	1254	3.78	3.70	0.98	1331	3.49	3.42	0.98	1382
32	20	4.33	3.72	0.86	1306	4.03	3.47	0.86	1370	3.74	3.21	0.86	1446
32	22	4.58	3.39	0.74	1357	4.28	3.17	0.74	1434	3.99	2.95	0.74	1485
32	24	4.83	2.99	0.62	1408	4.54	2.81	0.62	1472	4.28	2.66	0.62	1536
32	26	5.08	2.54	0.50	1459	4.79	2.39	0.50	1523	4.49	2.25	0.50	1587

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE CURVES COOL operation at Rated frequency

MSZ-EF50VE3W MSZ-EF50VE3B MSZ-EF50VE3S: MUZ-EF50VE

CAPACITY: 5.0 kW SHF: 0.71 INPUT: 1560 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)															
		21				25				27				30			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	5.88	3.11	0.53	1248	5.63	2.98	0.53	1310	5.40	2.86	0.53	1373	5.20	2.76	0.53	1435
21	20	6.13	2.51	0.41	1310	5.88	2.41	0.41	1388	5.70	2.34	0.41	1420	5.50	2.26	0.41	1482
22	18	5.88	3.35	0.57	1248	5.63	3.21	0.57	1310	5.40	3.08	0.57	1373	5.20	2.96	0.57	1435
22	20	6.13	2.76	0.45	1310	5.88	2.64	0.45	1388	5.70	2.57	0.45	1420	5.50	2.48	0.45	1482
22	22	6.38	2.10	0.33	1357	6.15	2.03	0.33	1443	6.00	1.98	0.33	1482	5.75	1.90	0.33	1544
23	18	5.88	3.58	0.61	1248	5.63	3.43	0.61	1310	5.40	3.29	0.61	1373	5.20	3.17	0.61	1435
23	20	6.13	3.00	0.49	1310	5.88	2.88	0.49	1388	5.70	2.79	0.49	1420	5.50	2.70	0.49	1482
23	22	6.38	2.36	0.37	1357	6.15	2.28	0.37	1443	6.00	2.22	0.37	1482	5.75	2.13	0.37	1544
24	18	5.88	3.82	0.65	1248	5.63	3.66	0.65	1310	5.40	3.51	0.65	1373	5.20	3.38	0.65	1435
24	20	6.13	3.25	0.53	1310	5.88	3.11	0.53	1388	5.70	3.02	0.53	1420	5.50	2.92	0.53	1482
24	22	6.38	2.61	0.41	1357	6.15	2.52	0.41	1443	6.00	2.46	0.41	1482	5.75	2.36	0.41	1544
24	24	6.70	1.94	0.29	1420	6.45	1.87	0.29	1498	6.30	1.83	0.29	1544	6.10	1.77	0.29	1622
25	18	5.88	4.05	0.69	1248	5.63	3.88	0.69	1310	5.40	3.73	0.69	1373	5.20	3.59	0.69	1435
25	20	6.13	3.49	0.57	1310	5.88	3.35	0.57	1388	5.70	3.25	0.57	1420	5.50	3.14	0.57	1482
25	22	6.38	2.87	0.45	1357	6.15	2.77	0.45	1443	6.00	2.70	0.45	1482	5.75	2.59	0.45	1544
25	24	6.70	2.21	0.33	1420	6.45	2.13	0.33	1498	6.30	2.08	0.33	1544	6.10	2.01	0.33	1622
26	18	5.88	4.29	0.73	1248	5.63	4.11	0.73	1310	5.40	3.94	0.73	1373	5.20	3.80	0.73	1435
26	20	6.13	3.74	0.61	1310	5.88	3.58	0.61	1388	5.70	3.48	0.61	1420	5.50	3.36	0.61	1482
26	22	6.38	3.12	0.49	1357	6.15	3.01	0.49	1443	6.00	2.94	0.49	1482	5.75	2.82	0.49	1544
26	24	6.70	2.48	0.37	1420	6.45	2.39	0.37	1498	6.30	2.33	0.37	1544	6.10	2.26	0.37	1622
26	26	6.90	1.73	0.25	1498	6.70	1.68	0.25	1576	6.60	1.65	0.25	1622	6.40	1.60	0.25	1669
27	18	5.88	4.52	0.77	1248	5.63	4.33	0.77	1310	5.40	4.16	0.77	1373	5.20	4.00	0.77	1435
27	20	6.13	3.98	0.65	1310	5.88	3.82	0.65	1388	5.70	3.71	0.65	1420	5.50	3.58	0.65	1482
27	22	6.38	3.38	0.53	1357	6.15	3.26	0.53	1443	6.00	3.18	0.53	1482	5.75	3.05	0.53	1544
27	24	6.70	2.75	0.41	1420	6.45	2.64	0.41	1498	6.30	2.58	0.41	1544	6.10	2.50	0.41	1622
27	26	6.90	2.00	0.29	1498	6.70	1.94	0.29	1576	6.60	1.91	0.29	1622	6.40	1.86	0.29	1669
28	18	5.88	4.76	0.81	1248	5.63	4.56	0.81	1310	5.40	4.37	0.81	1373	5.20	4.21	0.81	1435
28	20	6.13	4.23	0.69	1310	5.88	4.05	0.69	1388	5.70	3.93	0.69	1420	5.50	3.80	0.69	1482
28	22	6.38	3.63	0.57	1357	6.15	3.51	0.57	1443	6.00	3.42	0.57	1482	5.75	3.28	0.57	1544
28	24	6.70	3.02	0.45	1420	6.45	2.90	0.45	1498	6.30	2.84	0.45	1544	6.10	2.75	0.45	1622
28	26	6.90	2.28	0.33	1498	6.70	2.21	0.33	1576	6.60	2.18	0.33	1622	6.40	2.11	0.33	1669
29	18	5.88	4.99	0.85	1248	5.63	4.78	0.85	1310	5.40	4.59	0.85	1373	5.20	4.42	0.85	1435
29	20	6.13	4.47	0.73	1310	5.88	4.29	0.73	1388	5.70	4.16	0.73	1420	5.50	4.02	0.73	1482
29	22	6.38	3.89	0.61	1357	6.15	3.75	0.61	1443	6.00	3.66	0.61	1482	5.75	3.51	0.61	1544
29	24	6.70	3.28	0.49	1420	6.45	3.16	0.49	1498	6.30	3.09	0.49	1544	6.10	2.99	0.49	1622
29	26	6.90	2.55	0.37	1498	6.70	2.48	0.37	1576	6.60	2.44	0.37	1622	6.40	2.37	0.37	1669
30	18	5.88	5.23	0.89	1248	5.63	5.01	0.89	1310	5.40	4.81	0.89	1373	5.20	4.63	0.89	1435
30	20	6.13	4.72	0.77	1310	5.88	4.52	0.77	1388	5.70	4.39	0.77	1420	5.50	4.24	0.77	1482
30	22	6.38	4.14	0.65	1357	6.15	4.00	0.65	1443	6.00	3.90	0.65	1482	5.75	3.74	0.65	1544
30	24	6.70	3.55	0.53	1420	6.45	3.42	0.53	1498	6.30	3.34	0.53	1544	6.10	3.23	0.53	1622
30	26	6.90	2.83	0.41	1498	6.70	2.75	0.41	1576	6.60	2.71	0.41	1622	6.40	2.62	0.41	1669
31	18	5.88	5.46	0.93	1248	5.63	5.23	0.93	1310	5.40	5.02	0.93	1373	5.20	4.84	0.93	1435
31	20	6.13	4.96	0.81	1310	5.88	4.76	0.81	1388	5.70	4.62	0.81	1420	5.50	4.46	0.81	1482
31	22	6.38	4.40	0.69	1357	6.15	4.24	0.69	1443	6.00	4.14	0.69	1482	5.75	3.97	0.69	1544
31	24	6.70	3.82	0.57	1420	6.45	3.68	0.57	1498	6.30	3.59	0.57	1544	6.10	3.48	0.57	1622
31	26	6.90	3.11	0.45	1498	6.70	3.02	0.45	1576	6.60	2.97	0.45	1622	6.40	2.88	0.45	1669
32	18	5.88	5.70	0.97	1248	5.63	5.46	0.97	1310	5.40	5.24	0.97	1373	5.20	5.04	0.97	1435
32	20	6.13	5.21	0.85	1310	5.88	4.99	0.85	1388	5.70	4.85	0.85	1420	5.50	4.68	0.85	1482
32	22	6.38	4.65	0.73	1357	6.15	4.49	0.73	1443	6.00	4.38	0.73	1482	5.75	4.20	0.73	1544
32	24	6.70	4.09	0.61	1420	6.45	3.93	0.61	1498	6.30	3.84	0.61	1544	6.10	3.72	0.61	1622
32	26	6.90	3.38	0.49	1498	6.70	3.28	0.49	1576	6.60	3.23	0.49	1622	6.40	3.14	0.49	1669

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE CURVES COOL operation at Rated frequency

MSZ-EF50VE3W MSZ-EF50VE3B MSZ-EF50VE3S: MUZ-EF50VE

CAPACITY: 5.0 kW SHF: 0.71 INPUT: 1560 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)											
		35				40				46			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	4.90	2.60	0.53	1529	4.50	2.39	0.53	1622	4.15	2.20	0.53	1685
21	20	5.15	2.11	0.41	1591	4.80	1.97	0.41	1669	4.45	1.82	0.41	1763
22	18	4.90	2.79	0.57	1529	4.50	2.57	0.57	1622	4.15	2.37	0.57	1685
22	20	5.15	2.32	0.45	1591	4.80	2.16	0.45	1669	4.45	2.00	0.45	1763
22	22	5.45	1.80	0.33	1654	5.10	1.68	0.33	1747	4.75	1.57	0.33	1810
23	18	4.90	2.99	0.61	1529	4.50	2.75	0.61	1622	4.15	2.53	0.61	1685
23	20	5.15	2.52	0.49	1591	4.80	2.35	0.49	1669	4.45	2.18	0.49	1763
23	22	5.45	2.02	0.37	1654	5.10	1.89	0.37	1747	4.75	1.76	0.37	1810
24	18	4.90	3.19	0.65	1529	4.50	2.93	0.65	1622	4.15	2.70	0.65	1685
24	20	5.15	2.73	0.53	1591	4.80	2.54	0.53	1669	4.45	2.36	0.53	1763
24	22	5.45	2.23	0.41	1654	5.10	2.09	0.41	1747	4.75	1.95	0.41	1810
24	24	5.75	1.67	0.29	1716	5.40	1.57	0.29	1794	5.10	1.48	0.29	1872
25	18	4.90	3.38	0.69	1529	4.50	3.11	0.69	1622	4.15	2.86	0.69	1685
25	20	5.15	2.94	0.57	1591	4.80	2.74	0.57	1669	4.45	2.54	0.57	1763
25	22	5.45	2.45	0.45	1654	5.10	2.30	0.45	1747	4.75	2.14	0.45	1810
25	24	5.75	1.90	0.33	1716	5.40	1.78	0.33	1794	5.10	1.68	0.33	1872
26	18	4.90	3.58	0.73	1529	4.50	3.29	0.73	1622	4.15	3.03	0.73	1685
26	20	5.15	3.14	0.61	1591	4.80	2.93	0.61	1669	4.45	2.71	0.61	1763
26	22	5.45	2.67	0.49	1654	5.10	2.50	0.49	1747	4.75	2.33	0.49	1810
26	24	5.75	2.13	0.37	1716	5.40	2.00	0.37	1794	5.10	1.89	0.37	1872
26	26	6.05	1.51	0.25	1778	5.70	1.43	0.25	1856	5.35	1.34	0.25	1934
27	18	4.90	3.77	0.77	1529	4.50	3.47	0.77	1622	4.15	3.20	0.77	1685
27	20	5.15	3.35	0.65	1591	4.80	3.12	0.65	1669	4.45	2.89	0.65	1763
27	22	5.45	2.89	0.53	1654	5.10	2.70	0.53	1747	4.75	2.52	0.53	1810
27	24	5.75	2.36	0.41	1716	5.40	2.21	0.41	1794	5.10	2.09	0.41	1872
27	26	6.05	1.75	0.29	1778	5.70	1.65	0.29	1856	5.35	1.55	0.29	1934
28	18	4.90	3.97	0.81	1529	4.50	3.65	0.81	1622	4.15	3.36	0.81	1685
28	20	5.15	3.55	0.69	1591	4.80	3.31	0.69	1669	4.45	3.07	0.69	1763
28	22	5.45	3.11	0.57	1654	5.10	2.91	0.57	1747	4.75	2.71	0.57	1810
28	24	5.75	2.59	0.45	1716	5.40	2.43	0.45	1794	5.10	2.30	0.45	1872
28	26	6.05	2.00	0.33	1778	5.70	1.88	0.33	1856	5.35	1.77	0.33	1934
29	18	4.90	4.17	0.85	1529	4.50	3.83	0.85	1622	4.15	3.53	0.85	1685
29	20	5.15	3.76	0.73	1591	4.80	3.50	0.73	1669	4.45	3.25	0.73	1763
29	22	5.45	3.32	0.61	1654	5.10	3.11	0.61	1747	4.75	2.90	0.61	1810
29	24	5.75	2.82	0.49	1716	5.40	2.65	0.49	1794	5.10	2.50	0.49	1872
29	26	6.05	2.24	0.37	1778	5.70	2.11	0.37	1856	5.35	1.98	0.37	1934
30	18	4.90	4.36	0.89	1529	4.50	4.01	0.89	1622	4.15	3.69	0.89	1685
30	20	5.15	3.97	0.77	1591	4.80	3.70	0.77	1669	4.45	3.43	0.77	1763
30	22	5.45	3.54	0.65	1654	5.10	3.32	0.65	1747	4.75	3.09	0.65	1810
30	24	5.75	3.05	0.53	1716	5.40	2.86	0.53	1794	5.10	2.70	0.53	1872
30	26	6.05	2.48	0.41	1778	5.70	2.34	0.41	1856	5.35	2.19	0.41	1934
31	18	4.90	4.56	0.93	1529	4.50	4.19	0.93	1622	4.15	3.86	0.93	1685
31	20	5.15	4.17	0.81	1591	4.80	3.89	0.81	1669	4.45	3.60	0.81	1763
31	22	5.45	3.76	0.69	1654	5.10	3.52	0.69	1747	4.75	3.28	0.69	1810
31	24	5.75	3.28	0.57	1716	5.40	3.08	0.57	1794	5.10	2.91	0.57	1872
31	26	6.05	2.72	0.45	1778	5.70	2.57	0.45	1856	5.35	2.41	0.45	1934
32	18	4.90	4.75	0.97	1529	4.50	4.37	0.97	1622	4.15	4.03	0.97	1685
32	20	5.15	4.38	0.85	1591	4.80	4.08	0.85	1669	4.45	3.78	0.85	1763
32	22	5.45	3.98	0.73	1654	5.10	3.72	0.73	1747	4.75	3.47	0.73	1810
32	24	5.75	3.51	0.61	1716	5.40	3.29	0.61	1794	5.10	3.11	0.61	1872
32	26	6.05	2.96	0.49	1778	5.70	2.79	0.49	1856	5.35	2.62	0.49	1934

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE CURVES COOL operation at Rated frequency

MSZ-SF25VE3: MUZ-SF25VE MUZ-SF25VEH

CAPACITY: 2.5 kW SHF: 0.92 INPUT: 600 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)															
		21				25				27				30			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	2.94	2.17	0.74	480	2.81	2.08	0.74	504	2.70	2.00	0.74	528	2.60	1.92	0.74	552
21	20	3.06	1.90	0.62	504	2.94	1.82	0.62	534	2.85	1.77	0.62	546	2.75	1.71	0.62	570
22	18	2.94	2.29	0.78	480	2.81	2.19	0.78	504	2.70	2.11	0.78	528	2.60	2.03	0.78	552
22	20	3.06	2.02	0.66	504	2.94	1.94	0.66	534	2.85	1.88	0.66	546	2.75	1.82	0.66	570
22	22	3.19	1.72	0.54	522	3.08	1.66	0.54	555	3.00	1.62	0.54	570	2.88	1.55	0.54	594
23	18	2.94	2.41	0.82	480	2.81	2.31	0.82	504	2.70	2.21	0.82	528	2.60	2.13	0.82	552
23	20	3.06	2.14	0.70	504	2.94	2.06	0.70	534	2.85	2.00	0.70	546	2.75	1.93	0.70	570
23	22	3.19	1.85	0.58	522	3.08	1.78	0.58	555	3.00	1.74	0.58	570	2.88	1.67	0.58	594
24	18	2.94	2.53	0.86	480	2.81	2.42	0.86	504	2.70	2.32	0.86	528	2.60	2.24	0.86	552
24	20	3.06	2.27	0.74	504	2.94	2.17	0.74	534	2.85	2.11	0.74	546	2.75	2.04	0.74	570
24	22	3.19	1.98	0.62	522	3.08	1.91	0.62	555	3.00	1.86	0.62	570	2.88	1.78	0.62	594
24	24	3.35	1.68	0.50	546	3.23	1.61	0.50	576	3.15	1.58	0.50	594	3.05	1.53	0.50	624
25	18	2.94	2.64	0.90	480	2.81	2.53	0.90	504	2.70	2.43	0.90	528	2.60	2.34	0.90	552
25	20	3.06	2.39	0.78	504	2.94	2.29	0.78	534	2.85	2.22	0.78	546	2.75	2.15	0.78	570
25	22	3.19	2.10	0.66	522	3.08	2.03	0.66	555	3.00	1.98	0.66	570	2.88	1.90	0.66	594
25	24	3.35	1.81	0.54	546	3.23	1.74	0.54	576	3.15	1.70	0.54	594	3.05	1.65	0.54	624
26	18	2.94	2.76	0.94	480	2.81	2.64	0.94	504	2.70	2.54	0.94	528	2.60	2.44	0.94	552
26	20	3.06	2.51	0.82	504	2.94	2.41	0.82	534	2.85	2.34	0.82	546	2.75	2.26	0.82	570
26	22	3.19	2.23	0.70	522	3.08	2.15	0.70	555	3.00	2.10	0.70	570	2.88	2.01	0.70	594
26	24	3.35	1.94	0.58	546	3.23	1.87	0.58	576	3.15	1.83	0.58	594	3.05	1.77	0.58	624
26	26	3.45	1.59	0.46	576	3.35	1.54	0.46	606	3.30	1.52	0.46	624	3.20	1.47	0.46	642
27	18	2.94	2.88	0.98	480	2.81	2.76	0.98	504	2.70	2.65	0.98	528	2.60	2.55	0.98	552
27	20	3.06	2.63	0.86	504	2.94	2.53	0.86	534	2.85	2.45	0.86	546	2.75	2.37	0.86	570
27	22	3.19	2.36	0.74	522	3.08	2.28	0.74	555	3.00	2.22	0.74	570	2.88	2.13	0.74	594
27	24	3.35	2.08	0.62	546	3.23	2.00	0.62	576	3.15	1.95	0.62	594	3.05	1.89	0.62	624
27	26	3.45	1.73	0.50	576	3.35	1.68	0.50	606	3.30	1.65	0.50	624	3.20	1.60	0.50	642
28	18	2.94	2.94	1.00	480	2.81	2.81	1.00	504	2.70	2.70	1.00	528	2.60	2.60	1.00	552
28	20	3.06	2.76	0.90	504	2.94	2.64	0.90	534	2.85	2.57	0.90	546	2.75	2.48	0.90	570
28	22	3.19	2.49	0.78	522	3.08	2.40	0.78	555	3.00	2.34	0.78	570	2.88	2.24	0.78	594
28	24	3.35	2.21	0.66	546	3.23	2.13	0.66	576	3.15	2.08	0.66	594	3.05	2.01	0.66	624
28	26	3.45	1.86	0.54	576	3.35	1.81	0.54	606	3.30	1.78	0.54	624	3.20	1.73	0.54	642
29	18	2.94	2.94	1.00	480	2.81	2.81	1.00	504	2.70	2.70	1.00	528	2.60	2.60	1.00	552
29	20	3.06	2.88	0.94	504	2.94	2.76	0.94	534	2.85	2.68	0.94	546	2.75	2.59	0.94	570
29	22	3.19	2.61	0.82	522	3.08	2.52	0.82	555	3.00	2.46	0.82	570	2.88	2.36	0.82	594
29	24	3.35	2.35	0.70	546	3.23	2.26	0.70	576	3.15	2.21	0.70	594	3.05	2.14	0.70	624
29	26	3.45	2.00	0.58	576	3.35	1.94	0.58	606	3.30	1.91	0.58	624	3.20	1.86	0.58	642
30	18	2.94	2.94	1.00	480	2.81	2.81	1.00	504	2.70	2.70	1.00	528	2.60	2.60	1.00	552
30	20	3.06	3.00	0.98	504	2.94	2.88	0.98	534	2.85	2.79	0.98	546	2.75	2.70	0.98	570
30	22	3.19	2.74	0.86	522	3.08	2.64	0.86	555	3.00	2.58	0.86	570	2.88	2.47	0.86	594
30	24	3.35	2.48	0.74	546	3.23	2.39	0.74	576	3.15	2.33	0.74	594	3.05	2.26	0.74	624
30	26	3.45	2.14	0.62	576	3.35	2.08	0.62	606	3.30	2.05	0.62	624	3.20	1.98	0.62	642
31	18	2.94	2.94	1.00	480	2.81	2.81	1.00	504	2.70	2.70	1.00	528	2.60	2.60	1.00	552
31	20	3.06	3.06	1.00	504	2.94	2.94	1.00	534	2.85	2.85	1.00	546	2.75	2.75	1.00	570
31	22	3.19	2.87	0.90	522	3.08	2.77	0.90	555	3.00	2.70	0.90	570	2.88	2.59	0.90	594
31	24	3.35	2.61	0.78	546	3.23	2.52	0.78	576	3.15	2.46	0.78	594	3.05	2.38	0.78	624
31	26	3.45	2.28	0.66	576	3.35	2.21	0.66	606	3.30	2.18	0.66	624	3.20	2.11	0.66	642
32	18	2.94	2.94	1.00	480	2.81	2.81	1.00	504	2.70	2.70	1.00	528	2.60	2.60	1.00	552
32	20	3.06	3.06	1.00	504	2.94	2.94	1.00	534	2.85	2.85	1.00	546	2.75	2.75	1.00	570
32	22	3.19	3.00	0.94	522	3.08	2.89	0.94	555	3.00	2.82	0.94	570	2.88	2.70	0.94	594
32	24	3.35	2.75	0.82	546	3.23	2.64	0.82	576	3.15	2.58	0.82	594	3.05	2.50	0.82	624
32	26	3.45	2.42	0.70	576	3.35	2.35	0.70	606	3.30	2.31	0.70	624	3.20	2.24	0.70	642

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE CURVES COOL operation at Rated frequency

MSZ-SF25VE3: MUZ-SF25VE MUZ-SF25VEH

CAPACITY: 2.5 kW SHF: 0.92 INPUT: 600 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)											
		35				40				46			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	2.45	1.81	0.74	588	2.25	1.67	0.74	624	2.08	1.54	0.74	648
21	20	2.58	1.60	0.62	612	2.40	1.49	0.62	642	2.23	1.38	0.62	678
22	18	2.45	1.91	0.78	588	2.25	1.76	0.78	624	2.08	1.62	0.78	648
22	20	2.58	1.70	0.66	612	2.40	1.58	0.66	642	2.23	1.47	0.66	678
22	22	2.73	1.47	0.54	636	2.55	1.38	0.54	672	2.38	1.28	0.54	696
23	18	2.45	2.01	0.82	588	2.25	1.85	0.82	624	2.08	1.70	0.82	648
23	20	2.58	1.80	0.70	612	2.40	1.68	0.70	642	2.23	1.56	0.70	678
23	22	2.73	1.58	0.58	636	2.55	1.48	0.58	672	2.38	1.38	0.58	696
24	18	2.45	2.11	0.86	588	2.25	1.94	0.86	624	2.08	1.78	0.86	648
24	20	2.58	1.91	0.74	612	2.40	1.78	0.74	642	2.23	1.65	0.74	678
24	22	2.73	1.69	0.62	636	2.55	1.58	0.62	672	2.38	1.47	0.62	696
24	24	2.88	1.44	0.50	660	2.70	1.35	0.50	690	2.55	1.28	0.50	720
25	18	2.45	2.21	0.90	588	2.25	2.03	0.90	624	2.08	1.87	0.9	648
25	20	2.58	2.01	0.78	612	2.40	1.87	0.78	642	2.23	1.74	0.78	678
25	22	2.73	1.80	0.66	636	2.55	1.68	0.66	672	2.38	1.57	0.66	696
25	24	2.88	1.55	0.54	660	2.70	1.46	0.54	690	2.55	1.38	0.54	720
26	18	2.45	2.30	0.94	588	2.25	2.12	0.94	624	2.08	1.95	0.94	648
26	20	2.58	2.11	0.82	612	2.40	1.97	0.82	642	2.23	1.82	0.82	678
26	22	2.73	1.91	0.70	636	2.55	1.79	0.70	672	2.38	1.66	0.70	696
26	24	2.88	1.67	0.58	660	2.70	1.57	0.58	690	2.55	1.48	0.58	720
26	26	3.03	1.39	0.46	684	2.85	1.31	0.46	714	2.68	1.23	0.46	744
27	18	2.45	2.40	0.98	588	2.25	2.21	0.98	624	2.08	2.03	0.98	648
27	20	2.58	2.21	0.86	612	2.40	2.06	0.86	642	2.23	1.91	0.86	678
27	22	2.73	2.02	0.74	636	2.55	1.89	0.74	672	2.38	1.76	0.74	696
27	24	2.88	1.78	0.62	660	2.70	1.67	0.62	690	2.55	1.58	0.62	720
27	26	3.03	1.51	0.50	684	2.85	1.43	0.50	714	2.68	1.34	0.50	744
28	18	2.45	2.45	1.00	588	2.25	2.25	1.00	624	2.08	2.08	1.00	648
28	20	2.58	2.32	0.90	612	2.40	2.16	0.90	642	2.23	2.00	0.90	678
28	22	2.73	2.13	0.78	636	2.55	1.99	0.78	672	2.38	1.85	0.78	696
28	24	2.88	1.90	0.66	660	2.70	1.78	0.66	690	2.55	1.68	0.66	720
28	26	3.03	1.63	0.54	684	2.85	1.54	0.54	714	2.68	1.44	0.54	744
29	18	2.45	2.45	1.00	588	2.25	2.25	1.00	624	2.08	2.08	1.00	648
29	20	2.58	2.42	0.94	612	2.40	2.26	0.94	642	2.23	2.09	0.94	678
29	22	2.73	2.23	0.82	636	2.55	2.09	0.82	672	2.38	1.95	0.82	696
29	24	2.88	2.01	0.70	660	2.70	1.89	0.70	690	2.55	1.79	0.70	720
29	26	3.03	1.75	0.58	684	2.85	1.65	0.58	714	2.68	1.55	0.58	744
30	18	2.45	2.45	1.00	588	2.25	2.25	1.00	624	2.08	2.08	1.00	648
30	20	2.58	2.52	0.98	612	2.40	2.35	0.98	642	2.23	2.18	0.98	678
30	22	2.73	2.34	0.86	636	2.55	2.19	0.86	672	2.38	2.04	0.86	696
30	24	2.88	2.13	0.74	660	2.70	2.00	0.74	690	2.55	1.89	0.74	720
30	26	3.03	1.88	0.62	684	2.85	1.77	0.62	714	2.68	1.66	0.62	744
31	18	2.45	2.45	1.00	588	2.25	2.25	1.00	624	2.08	2.08	1.00	648
31	20	2.58	2.58	1.00	612	2.40	2.40	1.00	642	2.23	2.23	1.00	678
31	22	2.73	2.45	0.90	636	2.55	2.30	0.90	672	2.38	2.14	0.90	696
31	24	2.88	2.24	0.78	660	2.70	2.11	0.78	690	2.55	1.99	0.78	720
31	26	3.03	2.00	0.66	684	2.85	1.88	0.66	714	2.68	1.77	0.66	744
32	18	2.45	2.45	1.00	588	2.25	2.25	1.00	624	2.08	2.08	1.00	648
32	20	2.58	2.58	1.00	612	2.40	2.40	1.00	642	2.23	2.23	1.00	678
32	22	2.73	2.56	0.94	636	2.55	2.40	0.94	672	2.38	2.23	0.94	696
32	24	2.88	2.36	0.82	660	2.70	2.21	0.82	690	2.55	2.09	0.82	720
32	26	3.03	2.12	0.70	684	2.85	2.00	0.70	714	2.68	1.87	0.70	744

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE CURVES COOL operation at Rated frequency

MSZ-SF35VE3: MUZ-SF35VE MUZ-SF35VEH

CAPACITY: 3.5 kW SHF: 0.80 INPUT: 1080 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)															
		21				25				27				30			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	4.11	2.55	0.62	864	3.94	2.44	0.62	907	3.78	2.34	0.62	950	3.64	2.26	0.62	994
21	20	4.29	2.14	0.50	907	4.11	2.06	0.50	961	3.99	2.00	0.50	983	3.85	1.93	0.50	1026
22	18	4.11	2.71	0.66	864	3.94	2.60	0.66	907	3.78	2.49	0.66	950	3.64	2.40	0.66	994
22	20	4.29	2.32	0.54	907	4.11	2.22	0.54	961	3.99	2.15	0.54	983	3.85	2.08	0.54	1026
22	22	4.46	1.87	0.42	940	4.31	1.81	0.42	999	4.20	1.76	0.42	1026	4.03	1.69	0.42	1069
23	18	4.11	2.88	0.70	864	3.94	2.76	0.70	907	3.78	2.65	0.70	950	3.64	2.55	0.70	994
23	20	4.29	2.49	0.58	907	4.11	2.39	0.58	961	3.99	2.31	0.58	983	3.85	2.23	0.58	1026
23	22	4.46	2.05	0.46	940	4.31	1.98	0.46	999	4.20	1.93	0.46	1026	4.03	1.85	0.46	1069
24	18	4.11	3.04	0.74	864	3.94	2.91	0.74	907	3.78	2.80	0.74	950	3.64	2.69	0.74	994
24	20	4.29	2.66	0.62	907	4.11	2.55	0.62	961	3.99	2.47	0.62	983	3.85	2.39	0.62	1026
24	22	4.46	2.23	0.50	940	4.31	2.15	0.50	999	4.20	2.10	0.50	1026	4.03	2.01	0.50	1069
24	24	4.69	1.78	0.38	983	4.52	1.72	0.38	1037	4.41	1.68	0.38	1069	4.27	1.62	0.38	1123
25	18	4.11	3.21	0.78	864	3.94	3.07	0.78	907	3.78	2.95	0.78	950	3.64	2.84	0.78	994
25	20	4.29	2.83	0.66	907	4.11	2.71	0.66	961	3.99	2.63	0.66	983	3.85	2.54	0.66	1026
25	22	4.46	2.41	0.54	940	4.31	2.32	0.54	999	4.20	2.27	0.54	1026	4.03	2.17	0.54	1069
25	24	4.69	1.97	0.42	983	4.52	1.90	0.42	1037	4.41	1.85	0.42	1069	4.27	1.79	0.42	1123
26	18	4.11	3.37	0.82	864	3.94	3.23	0.82	907	3.78	3.10	0.82	950	3.64	2.98	0.82	994
26	20	4.29	3.00	0.70	907	4.11	2.88	0.70	961	3.99	2.79	0.70	983	3.85	2.70	0.70	1026
26	22	4.46	2.59	0.58	940	4.31	2.50	0.58	999	4.20	2.44	0.58	1026	4.03	2.33	0.58	1069
26	24	4.69	2.16	0.46	983	4.52	2.08	0.46	1037	4.41	2.03	0.46	1069	4.27	1.96	0.46	1123
26	26	4.83	1.64	0.34	1037	4.69	1.59	0.34	1091	4.62	1.57	0.34	1123	4.48	1.52	0.34	1156
27	18	4.11	3.54	0.86	864	3.94	3.39	0.86	907	3.78	3.25	0.86	950	3.64	3.13	0.86	994
27	20	4.29	3.17	0.74	907	4.11	3.04	0.74	961	3.99	2.95	0.74	983	3.85	2.85	0.74	1026
27	22	4.46	2.77	0.62	940	4.31	2.67	0.62	999	4.20	2.60	0.62	1026	4.03	2.50	0.62	1069
27	24	4.69	2.35	0.50	983	4.52	2.26	0.50	1037	4.41	2.21	0.50	1069	4.27	2.14	0.50	1123
27	26	4.83	1.84	0.38	1037	4.69	1.78	0.38	1091	4.62	1.76	0.38	1123	4.48	1.70	0.38	1156
28	18	4.11	3.70	0.90	864	3.94	3.54	0.90	907	3.78	3.40	0.90	950	3.64	3.28	0.90	994
28	20	4.29	3.34	0.78	907	4.11	3.21	0.78	961	3.99	3.11	0.78	983	3.85	3.00	0.78	1026
28	22	4.46	2.95	0.66	940	4.31	2.84	0.66	999	4.20	2.77	0.66	1026	4.03	2.66	0.66	1069
28	24	4.69	2.53	0.54	983	4.52	2.44	0.54	1037	4.41	2.38	0.54	1069	4.27	2.31	0.54	1123
28	26	4.83	2.03	0.42	1037	4.69	1.97	0.42	1091	4.62	1.94	0.42	1123	4.48	1.88	0.42	1156
29	18	4.11	3.87	0.94	864	3.94	3.70	0.94	907	3.78	3.55	0.94	950	3.64	3.42	0.94	994
29	20	4.29	3.52	0.82	907	4.11	3.37	0.82	961	3.99	3.27	0.82	983	3.85	3.16	0.82	1026
29	22	4.46	3.12	0.70	940	4.31	3.01	0.70	999	4.20	2.94	0.70	1026	4.03	2.82	0.70	1069
29	24	4.69	2.72	0.58	983	4.52	2.62	0.58	1037	4.41	2.56	0.58	1069	4.27	2.48	0.58	1123
29	26	4.83	2.22	0.46	1037	4.69	2.16	0.46	1091	4.62	2.13	0.46	1123	4.48	2.06	0.46	1156
30	18	4.11	4.03	0.98	864	3.94	3.86	0.98	907	3.78	3.70	0.98	950	3.64	3.57	0.98	994
30	20	4.29	3.69	0.86	907	4.11	3.54	0.86	961	3.99	3.43	0.86	983	3.85	3.31	0.86	1026
30	22	4.46	3.30	0.74	940	4.31	3.19	0.74	999	4.20	3.11	0.74	1026	4.03	2.98	0.74	1069
30	24	4.69	2.91	0.62	983	4.52	2.80	0.62	1037	4.41	2.73	0.62	1069	4.27	2.65	0.62	1123
30	26	4.83	2.42	0.50	1037	4.69	2.35	0.50	1091	4.62	2.31	0.50	1123	4.48	2.24	0.50	1156
31	18	4.11	4.11	1.00	864	3.94	3.94	1.00	907	3.78	3.78	1.00	950	3.64	3.64	1.00	994
31	20	4.29	3.86	0.90	907	4.11	3.70	0.90	961	3.99	3.59	0.90	983	3.85	3.47	0.90	1026
31	22	4.46	3.48	0.78	940	4.31	3.36	0.78	999	4.20	3.28	0.78	1026	4.03	3.14	0.78	1069
31	24	4.69	3.10	0.66	983	4.52	2.98	0.66	1037	4.41	2.91	0.66	1069	4.27	2.82	0.66	1123
31	26	4.83	2.61	0.54	1037	4.69	2.53	0.54	1091	4.62	2.49	0.54	1123	4.48	2.42	0.54	1156
32	18	4.11	4.11	1.00	864	3.94	3.94	1.00	907	3.78	3.78	1.00	950	3.64	3.64	1.00	994
32	20	4.29	4.03	0.94	907	4.11	3.87	0.94	961	3.99	3.75	0.94	983	3.85	3.62	0.94	1026
32	22	4.46	3.66	0.82	940	4.31	3.53	0.82	999	4.20	3.44	0.82	1026	4.03	3.30	0.82	1069
32	24	4.69	3.28	0.70	983	4.52	3.16	0.70	1037	4.41	3.09	0.70	1069	4.27	2.99	0.70	1123
32	26	4.83	2.80	0.58	1037	4.69	2.72	0.58	1091	4.62	2.68	0.58	1123	4.48	2.60	0.58	1156

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE CURVES COOL operation at Rated frequency

MSZ-SF35VE3: MUZ-SF35VE MUZ-SF35VEH

CAPACITY: 3.5 kW SHF: 0.80 INPUT: 1080 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)											
		35				40				46			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	3.43	2.13	0.62	1058	3.15	1.95	0.62	1123	2.91	1.80	0.62	1166
21	20	3.61	1.80	0.50	1102	3.36	1.68	0.50	1156	3.12	1.56	0.50	1220
22	18	3.43	2.26	0.66	1058	3.15	2.08	0.66	1123	2.91	1.92	0.66	1166
22	20	3.61	1.95	0.54	1102	3.36	1.81	0.54	1156	3.12	1.68	0.54	1220
22	22	3.82	1.60	0.42	1145	3.57	1.50	0.42	1210	3.33	1.40	0.42	1253
23	18	3.43	2.40	0.70	1058	3.15	2.21	0.70	1123	2.91	2.03	0.70	1166
23	20	3.61	2.09	0.58	1102	3.36	1.95	0.58	1156	3.12	1.81	0.58	1220
23	22	3.82	1.75	0.46	1145	3.57	1.64	0.46	1210	3.33	1.53	0.46	1253
24	18	3.43	2.54	0.74	1058	3.15	2.33	0.74	1123	2.91	2.15	0.74	1166
24	20	3.61	2.24	0.62	1102	3.36	2.08	0.62	1156	3.12	1.93	0.62	1220
24	22	3.82	1.91	0.50	1145	3.57	1.79	0.50	1210	3.33	1.66	0.50	1253
24	24	4.03	1.53	0.38	1188	3.78	1.44	0.38	1242	3.57	1.36	0.38	1296
25	18	3.43	2.68	0.78	1058	3.15	2.46	0.78	1123	2.91	2.27	0.78	1166
25	20	3.61	2.38	0.66	1102	3.36	2.22	0.66	1156	3.12	2.06	0.66	1220
25	22	3.82	2.06	0.54	1145	3.57	1.93	0.54	1210	3.33	1.80	0.54	1253
25	24	4.03	1.69	0.42	1188	3.78	1.59	0.42	1242	3.57	1.50	0.42	1296
26	18	3.43	2.81	0.82	1058	3.15	2.58	0.82	1123	2.91	2.38	0.82	1166
26	20	3.61	2.52	0.70	1102	3.36	2.35	0.70	1156	3.12	2.18	0.70	1220
26	22	3.82	2.21	0.58	1145	3.57	2.07	0.58	1210	3.33	1.93	0.58	1253
26	24	4.03	1.85	0.46	1188	3.78	1.74	0.46	1242	3.57	1.64	0.46	1296
26	26	4.24	1.44	0.34	1231	3.99	1.36	0.34	1285	3.75	1.27	0.34	1339
27	18	3.43	2.95	0.86	1058	3.15	2.71	0.86	1123	2.91	2.50	0.86	1166
27	20	3.61	2.67	0.74	1102	3.36	2.49	0.74	1156	3.12	2.31	0.74	1220
27	22	3.82	2.37	0.62	1145	3.57	2.21	0.62	1210	3.33	2.06	0.62	1253
27	24	4.03	2.01	0.50	1188	3.78	1.89	0.50	1242	3.57	1.79	0.50	1296
27	26	4.24	1.61	0.38	1231	3.99	1.52	0.38	1285	3.75	1.42	0.38	1339
28	18	3.43	3.09	0.90	1058	3.15	2.84	0.90	1123	2.91	2.61	0.90	1166
28	20	3.61	2.81	0.78	1102	3.36	2.62	0.78	1156	3.12	2.43	0.78	1220
28	22	3.82	2.52	0.66	1145	3.57	2.36	0.66	1210	3.33	2.19	0.66	1253
28	24	4.03	2.17	0.54	1188	3.78	2.04	0.54	1242	3.57	1.93	0.54	1296
28	26	4.24	1.78	0.42	1231	3.99	1.68	0.42	1285	3.75	1.57	0.42	1339
29	18	3.43	3.22	0.94	1058	3.15	2.96	0.94	1123	2.91	2.73	0.94	1166
29	20	3.61	2.96	0.82	1102	3.36	2.76	0.82	1156	3.12	2.55	0.82	1220
29	22	3.82	2.67	0.70	1145	3.57	2.50	0.70	1210	3.33	2.33	0.70	1253
29	24	4.03	2.33	0.58	1188	3.78	2.19	0.58	1242	3.57	2.07	0.58	1296
29	26	4.24	1.95	0.46	1231	3.99	1.84	0.46	1285	3.75	1.72	0.46	1339
30	18	3.43	3.36	0.98	1058	3.15	3.09	0.98	1123	2.91	2.85	0.98	1166
30	20	3.61	3.10	0.86	1102	3.36	2.89	0.86	1156	3.12	2.68	0.86	1220
30	22	3.82	2.82	0.74	1145	3.57	2.64	0.74	1210	3.33	2.46	0.74	1253
30	24	4.03	2.50	0.62	1188	3.78	2.34	0.62	1242	3.57	2.21	0.62	1296
30	26	4.24	2.12	0.50	1231	3.99	2.00	0.50	1285	3.75	1.87	0.50	1339
31	18	3.43	3.43	1.00	1058	3.15	3.15	1.00	1123	2.91	2.91	1.00	1166
31	20	3.61	3.24	0.90	1102	3.36	3.02	0.90	1156	3.12	2.80	0.90	1220
31	22	3.82	2.98	0.78	1145	3.57	2.78	0.78	1210	3.33	2.59	0.78	1253
31	24	4.03	2.66	0.66	1188	3.78	2.49	0.66	1242	3.57	2.36	0.66	1296
31	26	4.24	2.29	0.54	1231	3.99	2.15	0.54	1285	3.75	2.02	0.54	1339
32	18	3.43	3.43	1.00	1058	3.15	3.15	1.00	1123	2.91	2.91	1.00	1166
32	20	3.61	3.39	0.94	1102	3.36	3.16	0.94	1156	3.12	2.93	0.94	1220
32	22	3.82	3.13	0.82	1145	3.57	2.93	0.82	1210	3.33	2.73	0.82	1253
32	24	4.03	2.82	0.70	1188	3.78	2.65	0.70	1242	3.57	2.50	0.70	1296
32	26	4.24	2.46	0.58	1231	3.99	2.31	0.58	1285	3.75	2.17	0.58	1339

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE CURVES COOL operation at Rated frequency

MSZ-SF42VE3: MUZ-SF42VE MUZ-SF42VEH

CAPACITY: 4.2 kW SHF: 0.72 INPUT: 1340 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)															
		21				25				27				30			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	4.94	2.66	0.54	1072	4.73	2.55	0.54	1126	4.54	2.45	0.54	1179	4.37	2.36	0.54	1233
21	20	5.15	2.16	0.42	1126	4.94	2.07	0.42	1193	4.79	2.01	0.42	1219	4.62	1.94	0.42	1273
22	18	4.94	2.86	0.58	1072	4.73	2.74	0.58	1126	4.54	2.63	0.58	1179	4.37	2.53	0.58	1233
22	20	5.15	2.37	0.46	1126	4.94	2.27	0.46	1193	4.79	2.20	0.46	1219	4.62	2.13	0.46	1273
22	22	5.36	1.82	0.34	1166	5.17	1.76	0.34	1240	5.04	1.71	0.34	1273	4.83	1.64	0.34	1327
23	18	4.94	3.06	0.62	1072	4.73	2.93	0.62	1126	4.54	2.81	0.62	1179	4.37	2.71	0.62	1233
23	20	5.15	2.57	0.50	1126	4.94	2.47	0.50	1193	4.79	2.39	0.50	1219	4.62	2.31	0.50	1273
23	22	5.36	2.03	0.38	1166	5.17	1.96	0.38	1240	5.04	1.92	0.38	1273	4.83	1.84	0.38	1327
24	18	4.94	3.26	0.66	1072	4.73	3.12	0.66	1126	4.54	2.99	0.66	1179	4.37	2.88	0.66	1233
24	20	5.15	2.78	0.54	1126	4.94	2.66	0.54	1193	4.79	2.59	0.54	1219	4.62	2.49	0.54	1273
24	22	5.36	2.25	0.42	1166	5.17	2.17	0.42	1240	5.04	2.12	0.42	1273	4.83	2.03	0.42	1327
24	24	5.63	1.69	0.30	1219	5.42	1.63	0.30	1286	5.29	1.59	0.30	1327	5.12	1.54	0.30	1394
25	18	4.94	3.45	0.70	1072	4.73	3.31	0.70	1126	4.54	3.18	0.70	1179	4.37	3.06	0.70	1233
25	20	5.15	2.98	0.58	1126	4.94	2.86	0.58	1193	4.79	2.78	0.58	1219	4.62	2.68	0.58	1273
25	22	5.36	2.46	0.46	1166	5.17	2.38	0.46	1240	5.04	2.32	0.46	1273	4.83	2.22	0.46	1327
25	24	5.63	1.91	0.34	1219	5.42	1.84	0.34	1286	5.29	1.80	0.34	1327	5.12	1.74	0.34	1394
26	18	4.94	3.65	0.74	1072	4.73	3.50	0.74	1126	4.54	3.36	0.74	1179	4.37	3.23	0.74	1233
26	20	5.15	3.19	0.62	1126	4.94	3.06	0.62	1193	4.79	2.97	0.62	1219	4.62	2.86	0.62	1273
26	22	5.36	2.68	0.50	1166	5.17	2.58	0.50	1240	5.04	2.52	0.50	1273	4.83	2.42	0.50	1327
26	24	5.63	2.14	0.38	1219	5.42	2.06	0.38	1286	5.29	2.01	0.38	1327	5.12	1.95	0.38	1394
26	26	5.80	1.51	0.26	1286	5.63	1.46	0.26	1353	5.54	1.44	0.26	1394	5.38	1.40	0.26	1434
27	18	4.94	3.85	0.78	1072	4.73	3.69	0.78	1126	4.54	3.54	0.78	1179	4.37	3.41	0.78	1233
27	20	5.15	3.40	0.66	1126	4.94	3.26	0.66	1193	4.79	3.16	0.66	1219	4.62	3.05	0.66	1273
27	22	5.36	2.89	0.54	1166	5.17	2.79	0.54	1240	5.04	2.72	0.54	1273	4.83	2.61	0.54	1327
27	24	5.63	2.36	0.42	1219	5.42	2.28	0.42	1286	5.29	2.22	0.42	1327	5.12	2.15	0.42	1394
27	26	5.80	1.74	0.30	1286	5.63	1.69	0.30	1353	5.54	1.66	0.30	1394	5.38	1.61	0.30	1434
28	18	4.94	4.05	0.82	1072	4.73	3.87	0.82	1126	4.54	3.72	0.82	1179	4.37	3.58	0.82	1233
28	20	5.15	3.60	0.70	1126	4.94	3.45	0.70	1193	4.79	3.35	0.70	1219	4.62	3.23	0.70	1273
28	22	5.36	3.11	0.58	1166	5.17	3.00	0.58	1240	5.04	2.92	0.58	1273	4.83	2.80	0.58	1327
28	24	5.63	2.59	0.46	1219	5.42	2.49	0.46	1286	5.29	2.43	0.46	1327	5.12	2.36	0.46	1394
28	26	5.80	1.97	0.34	1286	5.63	1.91	0.34	1353	5.54	1.88	0.34	1394	5.38	1.83	0.34	1434
29	18	4.94	4.24	0.86	1072	4.73	4.06	0.86	1126	4.54	3.90	0.86	1179	4.37	3.76	0.86	1233
29	20	5.15	3.81	0.74	1126	4.94	3.65	0.74	1193	4.79	3.54	0.74	1219	4.62	3.42	0.74	1273
29	22	5.36	3.32	0.62	1166	5.17	3.20	0.62	1240	5.04	3.12	0.62	1273	4.83	2.99	0.62	1327
29	24	5.63	2.81	0.50	1219	5.42	2.71	0.50	1286	5.29	2.65	0.50	1327	5.12	2.56	0.50	1394
29	26	5.80	2.20	0.38	1286	5.63	2.14	0.38	1353	5.54	2.11	0.38	1394	5.38	2.04	0.38	1434
30	18	4.94	4.44	0.90	1072	4.73	4.25	0.90	1126	4.54	4.08	0.90	1179	4.37	3.93	0.90	1233
30	20	5.15	4.01	0.78	1126	4.94	3.85	0.78	1193	4.79	3.73	0.78	1219	4.62	3.60	0.78	1273
30	22	5.36	3.53	0.66	1166	5.17	3.41	0.66	1240	5.04	3.33	0.66	1273	4.83	3.19	0.66	1327
30	24	5.63	3.04	0.54	1219	5.42	2.93	0.54	1286	5.29	2.86	0.54	1327	5.12	2.77	0.54	1394
30	26	5.80	2.43	0.42	1286	5.63	2.36	0.42	1353	5.54	2.33	0.42	1394	5.38	2.26	0.42	1434
31	18	4.94	4.64	0.94	1072	4.73	4.44	0.94	1126	4.54	4.26	0.94	1179	4.37	4.11	0.94	1233
31	20	5.15	4.22	0.82	1126	4.94	4.05	0.82	1193	4.79	3.93	0.82	1219	4.62	3.79	0.82	1273
31	22	5.36	3.75	0.70	1166	5.17	3.62	0.70	1240	5.04	3.53	0.70	1273	4.83	3.38	0.70	1327
31	24	5.63	3.26	0.58	1219	5.42	3.14	0.58	1286	5.29	3.07	0.58	1327	5.12	2.97	0.58	1394
31	26	5.80	2.67	0.46	1286	5.63	2.59	0.46	1353	5.54	2.55	0.46	1394	5.38	2.47	0.46	1434
32	18	4.94	4.84	0.98	1072	4.73	4.63	0.98	1126	4.54	4.45	0.98	1179	4.37	4.28	0.98	1233
32	20	5.15	4.42	0.86	1126	4.94	4.24	0.86	1193	4.79	4.12	0.86	1219	4.62	3.97	0.86	1273
32	22	5.36	3.96	0.74	1166	5.17	3.82	0.74	1240	5.04	3.73	0.74	1273	4.83	3.57	0.74	1327
32	24	5.63	3.49	0.62	1219	5.42	3.36	0.62	1286	5.29	3.28	0.62	1327	5.12	3.18	0.62	1394
32	26	5.80	2.90	0.50	1286	5.63	2.81	0.50	1353	5.54	2.77	0.50	1394	5.38	2.69	0.50	1434

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE CURVES COOL operation at Rated frequency

MSZ-SF42VE3: MUZ-SF42VE MUZ-SF42VEH

CAPACITY: 4.2 kW SHF: 0.72 INPUT: 1340 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)											
		35				40				46			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	4.12	2.22	0.54	1313	3.78	2.04	0.54	1394	3.49	1.88	0.54	1447
21	20	4.33	1.82	0.42	1367	4.03	1.69	0.42	1434	3.74	1.57	0.42	1514
22	18	4.12	2.39	0.58	1313	3.78	2.19	0.58	1394	3.49	2.02	0.58	1447
22	20	4.33	1.99	0.46	1367	4.03	1.85	0.46	1434	3.74	1.72	0.46	1514
22	22	4.58	1.56	0.34	1420	4.28	1.46	0.34	1501	3.99	1.36	0.34	1554
23	18	4.12	2.55	0.62	1313	3.78	2.34	0.62	1394	3.49	2.16	0.62	1447
23	20	4.33	2.16	0.50	1367	4.03	2.02	0.50	1434	3.74	1.87	0.50	1514
23	22	4.58	1.74	0.38	1420	4.28	1.63	0.38	1501	3.99	1.52	0.38	1554
24	18	4.12	2.72	0.66	1313	3.78	2.49	0.66	1394	3.49	2.30	0.66	1447
24	20	4.33	2.34	0.54	1367	4.03	2.18	0.54	1434	3.74	2.02	0.54	1514
24	22	4.58	1.92	0.42	1420	4.28	1.80	0.42	1501	3.99	1.68	0.42	1554
24	24	4.83	1.45	0.30	1474	4.54	1.36	0.30	1541	4.28	1.29	0.30	1608
25	18	4.12	2.88	0.70	1313	3.78	2.65	0.70	1394	3.49	2.44	0.7	1447
25	20	4.33	2.51	0.58	1367	4.03	2.34	0.58	1434	3.74	2.17	0.58	1514
25	22	4.58	2.11	0.46	1420	4.28	1.97	0.46	1501	3.99	1.84	0.46	1554
25	24	4.83	1.64	0.34	1474	4.54	1.54	0.34	1541	4.28	1.46	0.34	1608
26	18	4.12	3.05	0.74	1313	3.78	2.80	0.74	1394	3.49	2.58	0.74	1447
26	20	4.33	2.68	0.62	1367	4.03	2.50	0.62	1434	3.74	2.32	0.62	1514
26	22	4.58	2.29	0.50	1420	4.28	2.14	0.50	1501	3.99	2.00	0.50	1554
26	24	4.83	1.84	0.38	1474	4.54	1.72	0.38	1541	4.28	1.63	0.38	1608
26	26	5.08	1.32	0.26	1528	4.79	1.24	0.26	1595	4.49	1.17	0.26	1662
27	18	4.12	3.21	0.78	1313	3.78	2.95	0.78	1394	3.49	2.72	0.78	1447
27	20	4.33	2.86	0.66	1367	4.03	2.66	0.66	1434	3.74	2.47	0.66	1514
27	22	4.58	2.47	0.54	1420	4.28	2.31	0.54	1501	3.99	2.15	0.54	1554
27	24	4.83	2.03	0.42	1474	4.54	1.91	0.42	1541	4.28	1.80	0.42	1608
27	26	5.08	1.52	0.30	1528	4.79	1.44	0.30	1595	4.49	1.35	0.30	1662
28	18	4.12	3.38	0.82	1313	3.78	3.10	0.82	1394	3.49	2.86	0.82	1447
28	20	4.33	3.03	0.70	1367	4.03	2.82	0.70	1434	3.74	2.62	0.70	1514
28	22	4.58	2.66	0.58	1420	4.28	2.48	0.58	1501	3.99	2.31	0.58	1554
28	24	4.83	2.22	0.46	1474	4.54	2.09	0.46	1541	4.28	1.97	0.46	1608
28	26	5.08	1.73	0.34	1528	4.79	1.63	0.34	1595	4.49	1.53	0.34	1662
29	18	4.12	3.54	0.86	1313	3.78	3.25	0.86	1394	3.49	3.00	0.86	1447
29	20	4.33	3.20	0.74	1367	4.03	2.98	0.74	1434	3.74	2.77	0.74	1514
29	22	4.58	2.84	0.62	1420	4.28	2.66	0.62	1501	3.99	2.47	0.62	1554
29	24	4.83	2.42	0.50	1474	4.54	2.27	0.50	1541	4.28	2.14	0.50	1608
29	26	5.08	1.93	0.38	1528	4.79	1.82	0.38	1595	4.49	1.71	0.38	1662
30	18	4.12	3.70	0.90	1313	3.78	3.40	0.90	1394	3.49	3.14	0.90	1447
30	20	4.33	3.37	0.78	1367	4.03	3.14	0.78	1434	3.74	2.92	0.78	1514
30	22	4.58	3.02	0.66	1420	4.28	2.83	0.66	1501	3.99	2.63	0.66	1554
30	24	4.83	2.61	0.54	1474	4.54	2.45	0.54	1541	4.28	2.31	0.54	1608
30	26	5.08	2.13	0.42	1528	4.79	2.01	0.42	1595	4.49	1.89	0.42	1662
31	18	4.12	3.87	0.94	1313	3.78	3.55	0.94	1394	3.49	3.28	0.94	1447
31	20	4.33	3.55	0.82	1367	4.03	3.31	0.82	1434	3.74	3.07	0.82	1514
31	22	4.58	3.20	0.70	1420	4.28	3.00	0.70	1501	3.99	2.79	0.70	1554
31	24	4.83	2.80	0.58	1474	4.54	2.63	0.58	1541	4.28	2.48	0.58	1608
31	26	5.08	2.34	0.46	1528	4.79	2.20	0.46	1595	4.49	2.07	0.46	1662
32	18	4.12	4.03	0.98	1313	3.78	3.70	0.98	1394	3.49	3.42	0.98	1447
32	20	4.33	3.72	0.86	1367	4.03	3.47	0.86	1434	3.74	3.21	0.86	1514
32	22	4.58	3.39	0.74	1420	4.28	3.17	0.74	1501	3.99	2.95	0.74	1554
32	24	4.83	2.99	0.62	1474	4.54	2.81	0.62	1541	4.28	2.66	0.62	1608
32	26	5.08	2.54	0.50	1528	4.79	2.39	0.50	1595	4.49	2.25	0.50	1662

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE CURVES COOL operation at Rated frequency

MSZ-SF50VE3: MUZ-SF50VE MUZ-SF50VEH

CAPACITY: 5.0 kW SHF: 0.70 INPUT: 1660 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)															
		21				25				27				30			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	5.88	3.06	0.52	1328	5.63	2.93	0.52	1394	5.40	2.81	0.52	1461	5.20	2.70	0.52	1527
21	20	6.13	2.45	0.40	1394	5.88	2.35	0.40	1477	5.70	2.28	0.40	1511	5.50	2.20	0.40	1577
22	18	5.88	3.29	0.56	1328	5.63	3.15	0.56	1394	5.40	3.02	0.56	1461	5.20	2.91	0.56	1527
22	20	6.13	2.70	0.44	1394	5.88	2.59	0.44	1477	5.70	2.51	0.44	1511	5.50	2.42	0.44	1577
22	22	6.38	2.04	0.32	1444	6.15	1.97	0.32	1536	6.00	1.92	0.32	1577	5.75	1.84	0.32	1643
23	18	5.88	3.53	0.60	1328	5.63	3.38	0.60	1394	5.40	3.24	0.60	1461	5.20	3.12	0.60	1527
23	20	6.13	2.94	0.48	1394	5.88	2.82	0.48	1477	5.70	2.74	0.48	1511	5.50	2.64	0.48	1577
23	22	6.38	2.30	0.36	1444	6.15	2.21	0.36	1536	6.00	2.16	0.36	1577	5.75	2.07	0.36	1643
24	18	5.88	3.76	0.64	1328	5.63	3.60	0.64	1394	5.40	3.46	0.64	1461	5.20	3.33	0.64	1527
24	20	6.13	3.19	0.52	1394	5.88	3.06	0.52	1477	5.70	2.96	0.52	1511	5.50	2.86	0.52	1577
24	22	6.38	2.55	0.40	1444	6.15	2.46	0.40	1536	6.00	2.40	0.40	1577	5.75	2.30	0.40	1643
24	24	6.70	1.88	0.28	1511	6.45	1.81	0.28	1594	6.30	1.76	0.28	1643	6.10	1.71	0.28	1726
25	18	5.88	4.00	0.68	1328	5.63	3.83	0.68	1394	5.40	3.67	0.68	1461	5.20	3.54	0.68	1527
25	20	6.13	3.43	0.56	1394	5.88	3.29	0.56	1477	5.70	3.19	0.56	1511	5.50	3.08	0.56	1577
25	22	6.38	2.81	0.44	1444	6.15	2.71	0.44	1536	6.00	2.64	0.44	1577	5.75	2.53	0.44	1643
25	24	6.70	2.14	0.32	1511	6.45	2.06	0.32	1594	6.30	2.02	0.32	1643	6.10	1.95	0.32	1726
26	18	5.88	4.23	0.72	1328	5.63	4.05	0.72	1394	5.40	3.89	0.72	1461	5.20	3.74	0.72	1527
26	20	6.13	3.68	0.60	1394	5.88	3.53	0.60	1477	5.70	3.42	0.60	1511	5.50	3.30	0.60	1577
26	22	6.38	3.06	0.48	1444	6.15	2.95	0.48	1536	6.00	2.88	0.48	1577	5.75	2.76	0.48	1643
26	24	6.70	2.41	0.36	1511	6.45	2.32	0.36	1594	6.30	2.27	0.36	1643	6.10	2.20	0.36	1726
26	26	6.90	1.66	0.24	1594	6.70	1.61	0.24	1677	6.60	1.58	0.24	1726	6.40	1.54	0.24	1776
27	18	5.88	4.47	0.76	1328	5.63	4.28	0.76	1394	5.40	4.10	0.76	1461	5.20	3.95	0.76	1527
27	20	6.13	3.92	0.64	1394	5.88	3.76	0.64	1477	5.70	3.65	0.64	1511	5.50	3.52	0.64	1577
27	22	6.38	3.32	0.52	1444	6.15	3.20	0.52	1536	6.00	3.12	0.52	1577	5.75	2.99	0.52	1643
27	24	6.70	2.68	0.40	1511	6.45	2.58	0.40	1594	6.30	2.52	0.40	1643	6.10	2.44	0.40	1726
27	26	6.90	1.93	0.28	1594	6.70	1.88	0.28	1677	6.60	1.85	0.28	1726	6.40	1.79	0.28	1776
28	18	5.88	4.70	0.80	1328	5.63	4.50	0.80	1394	5.40	4.32	0.80	1461	5.20	4.16	0.80	1527
28	20	6.13	4.17	0.68	1394	5.88	4.00	0.68	1477	5.70	3.88	0.68	1511	5.50	3.74	0.68	1577
28	22	6.38	3.57	0.56	1444	6.15	3.44	0.56	1536	6.00	3.36	0.56	1577	5.75	3.22	0.56	1643
28	24	6.70	2.95	0.44	1511	6.45	2.84	0.44	1594	6.30	2.77	0.44	1643	6.10	2.68	0.44	1726
28	26	6.90	2.21	0.32	1594	6.70	2.14	0.32	1677	6.60	2.11	0.32	1726	6.40	2.05	0.32	1776
29	18	5.88	4.94	0.84	1328	5.63	4.73	0.84	1394	5.40	4.54	0.84	1461	5.20	4.37	0.84	1527
29	20	6.13	4.41	0.72	1394	5.88	4.23	0.72	1477	5.70	4.10	0.72	1511	5.50	3.96	0.72	1577
29	22	6.38	3.83	0.60	1444	6.15	3.69	0.60	1536	6.00	3.60	0.60	1577	5.75	3.45	0.60	1643
29	24	6.70	3.22	0.48	1511	6.45	3.10	0.48	1594	6.30	3.02	0.48	1643	6.10	2.93	0.48	1726
29	26	6.90	2.48	0.36	1594	6.70	2.41	0.36	1677	6.60	2.38	0.36	1726	6.40	2.30	0.36	1776
30	18	5.88	5.17	0.88	1328	5.63	4.95	0.88	1394	5.40	4.75	0.88	1461	5.20	4.58	0.88	1527
30	20	6.13	4.66	0.76	1394	5.88	4.47	0.76	1477	5.70	4.33	0.76	1511	5.50	4.18	0.76	1577
30	22	6.38	4.08	0.64	1444	6.15	3.94	0.64	1536	6.00	3.84	0.64	1577	5.75	3.68	0.64	1643
30	24	6.70	3.48	0.52	1511	6.45	3.35	0.52	1594	6.30	3.28	0.52	1643	6.10	3.17	0.52	1726
30	26	6.90	2.76	0.40	1594	6.70	2.68	0.40	1677	6.60	2.64	0.40	1726	6.40	2.56	0.40	1776
31	18	5.88	5.41	0.92	1328	5.63	5.18	0.92	1394	5.40	4.97	0.92	1461	5.20	4.78	0.92	1527
31	20	6.13	4.90	0.80	1394	5.88	4.70	0.80	1477	5.70	4.56	0.80	1511	5.50	4.40	0.80	1577
31	22	6.38	4.34	0.68	1444	6.15	4.18	0.68	1536	6.00	4.08	0.68	1577	5.75	3.91	0.68	1643
31	24	6.70	3.75	0.56	1511	6.45	3.61	0.56	1594	6.30	3.53	0.56	1643	6.10	3.42	0.56	1726
31	26	6.90	3.04	0.44	1594	6.70	2.95	0.44	1677	6.60	2.90	0.44	1726	6.40	2.82	0.44	1776
32	18	5.88	5.64	0.96	1328	5.63	5.40	0.96	1394	5.40	5.18	0.96	1461	5.20	4.99	0.96	1527
32	20	6.13	5.15	0.84	1394	5.88	4.94	0.84	1477	5.70	4.79	0.84	1511	5.50	4.62	0.84	1577
32	22	6.38	4.59	0.72	1444	6.15	4.43	0.72	1536	6.00	4.32	0.72	1577	5.75	4.14	0.72	1643
32	24	6.70	4.02	0.60	1511	6.45	3.87	0.60	1594	6.30	3.78	0.60	1643	6.10	3.66	0.60	1726
32	26	6.90	3.31	0.48	1594	6.70	3.22	0.48	1677	6.60	3.17	0.48	1726	6.40	3.07	0.48	1776

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE CURVES COOL operation at Rated frequency

MSZ-SF50VE3: MUZ-SF50VE MUZ-SF50VEH

CAPACITY: 5.0 kW SHF: 0.70 INPUT: 1660 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)											
		35				40				46			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	4.90	2.55	0.52	1627	4.50	2.34	0.52	1726	4.15	2.16	0.52	1793
21	20	5.15	2.06	0.40	1693	4.80	1.92	0.40	1776	4.45	1.78	0.40	1876
22	18	4.90	2.74	0.56	1627	4.50	2.52	0.56	1726	4.15	2.32	0.56	1793
22	20	5.15	2.27	0.44	1693	4.80	2.11	0.44	1776	4.45	1.96	0.44	1876
22	22	5.45	1.74	0.32	1760	5.10	1.63	0.32	1859	4.75	1.52	0.32	1926
23	18	4.90	2.94	0.60	1627	4.50	2.70	0.60	1726	4.15	2.49	0.60	1793
23	20	5.15	2.47	0.48	1693	4.80	2.30	0.48	1776	4.45	2.14	0.48	1876
23	22	5.45	1.96	0.36	1760	5.10	1.84	0.36	1859	4.75	1.71	0.36	1926
24	18	4.90	3.14	0.64	1627	4.50	2.88	0.64	1726	4.15	2.66	0.64	1793
24	20	5.15	2.68	0.52	1693	4.80	2.50	0.52	1776	4.45	2.31	0.52	1876
24	22	5.45	2.18	0.40	1760	5.10	2.04	0.40	1859	4.75	1.90	0.40	1926
24	24	5.75	1.61	0.28	1826	5.40	1.51	0.28	1909	5.10	1.43	0.28	1992
25	18	4.90	3.33	0.68	1627	4.50	3.06	0.68	1726	4.15	2.82	0.68	1793
25	20	5.15	2.88	0.56	1693	4.80	2.69	0.56	1776	4.45	2.49	0.56	1876
25	22	5.45	2.40	0.44	1760	5.10	2.24	0.44	1859	4.75	2.09	0.44	1926
25	24	5.75	1.84	0.32	1826	5.40	1.73	0.32	1909	5.10	1.63	0.32	1992
26	18	4.90	3.53	0.72	1627	4.50	3.24	0.72	1726	4.15	2.99	0.72	1793
26	20	5.15	3.09	0.60	1693	4.80	2.88	0.60	1776	4.45	2.67	0.60	1876
26	22	5.45	2.62	0.48	1760	5.10	2.45	0.48	1859	4.75	2.28	0.48	1926
26	24	5.75	2.07	0.36	1826	5.40	1.94	0.36	1909	5.10	1.84	0.36	1992
26	26	6.05	1.45	0.24	1892	5.70	1.37	0.24	1975	5.35	1.28	0.24	2058
27	18	4.90	3.72	0.76	1627	4.50	3.42	0.76	1726	4.15	3.15	0.76	1793
27	20	5.15	3.30	0.64	1693	4.80	3.07	0.64	1776	4.45	2.85	0.64	1876
27	22	5.45	2.83	0.52	1760	5.10	2.65	0.52	1859	4.75	2.47	0.52	1926
27	24	5.75	2.30	0.40	1826	5.40	2.16	0.40	1909	5.10	2.04	0.40	1992
27	26	6.05	1.69	0.28	1892	5.70	1.60	0.28	1975	5.35	1.50	0.28	2058
28	18	4.90	3.92	0.80	1627	4.50	3.60	0.80	1726	4.15	3.32	0.80	1793
28	20	5.15	3.50	0.68	1693	4.80	3.26	0.68	1776	4.45	3.03	0.68	1876
28	22	5.45	3.05	0.56	1760	5.10	2.86	0.56	1859	4.75	2.66	0.56	1926
28	24	5.75	2.53	0.44	1826	5.40	2.38	0.44	1909	5.10	2.24	0.44	1992
28	26	6.05	1.94	0.32	1892	5.70	1.82	0.32	1975	5.35	1.71	0.32	2058
29	18	4.90	4.12	0.84	1627	4.50	3.78	0.84	1726	4.15	3.49	0.84	1793
29	20	5.15	3.71	0.72	1693	4.80	3.46	0.72	1776	4.45	3.20	0.72	1876
29	22	5.45	3.27	0.60	1760	5.10	3.06	0.60	1859	4.75	2.85	0.60	1926
29	24	5.75	2.76	0.48	1826	5.40	2.59	0.48	1909	5.10	2.45	0.48	1992
29	26	6.05	2.18	0.36	1892	5.70	2.05	0.36	1975	5.35	1.93	0.36	2058
30	18	4.90	4.31	0.88	1627	4.50	3.96	0.88	1726	4.15	3.65	0.88	1793
30	20	5.15	3.91	0.76	1693	4.80	3.65	0.76	1776	4.45	3.38	0.76	1876
30	22	5.45	3.49	0.64	1760	5.10	3.26	0.64	1859	4.75	3.04	0.64	1926
30	24	5.75	2.99	0.52	1826	5.40	2.81	0.52	1909	5.10	2.65	0.52	1992
30	26	6.05	2.42	0.40	1892	5.70	2.28	0.40	1975	5.35	2.14	0.40	2058
31	18	4.90	4.51	0.92	1627	4.50	4.14	0.92	1726	4.15	3.82	0.92	1793
31	20	5.15	4.12	0.80	1693	4.80	3.84	0.80	1776	4.45	3.56	0.80	1876
31	22	5.45	3.71	0.68	1760	5.10	3.47	0.68	1859	4.75	3.23	0.68	1926
31	24	5.75	3.22	0.56	1826	5.40	3.02	0.56	1909	5.10	2.86	0.56	1992
31	26	6.05	2.66	0.44	1892	5.70	2.51	0.44	1975	5.35	2.35	0.44	2058
32	18	4.90	4.70	0.96	1627	4.50	4.32	0.96	1726	4.15	3.98	0.96	1793
32	20	5.15	4.33	0.84	1693	4.80	4.03	0.84	1776	4.45	3.74	0.84	1876
32	22	5.45	3.92	0.72	1760	5.10	3.67	0.72	1859	4.75	3.42	0.72	1926
32	24	5.75	3.45	0.60	1826	5.40	3.24	0.60	1909	5.10	3.06	0.60	1992
32	26	6.05	2.90	0.48	1892	5.70	2.74	0.48	1975	5.35	2.57	0.48	2058

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE CURVES COOL operation at Rated frequency

MSZ-GF60VE2: MUZ-GF60VE

CAPACITY: 6.1 kW SHF: 0.79 INPUT: 1790 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)															
		21				25				27				30			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	7.17	4.37	0.61	1432	6.86	4.19	0.61	1504	6.59	4.02	0.61	1575	6.34	3.87	0.61	1647
21	20	7.47	3.66	0.49	1504	7.17	3.51	0.49	1593	6.95	3.41	0.49	1629	6.71	3.29	0.49	1701
22	18	7.17	4.66	0.65	1432	6.86	4.46	0.65	1504	6.59	4.28	0.65	1575	6.34	4.12	0.65	1647
22	20	7.47	3.96	0.53	1504	7.17	3.80	0.53	1593	6.95	3.69	0.53	1629	6.71	3.56	0.53	1701
22	22	7.78	3.19	0.41	1557	7.50	3.08	0.41	1656	7.32	3.00	0.41	1701	7.01	2.88	0.41	1772
23	18	7.17	4.95	0.69	1432	6.86	4.74	0.69	1504	6.59	4.55	0.69	1575	6.34	4.38	0.69	1647
23	20	7.47	4.26	0.57	1504	7.17	4.09	0.57	1593	6.95	3.96	0.57	1629	6.71	3.82	0.57	1701
23	22	7.78	3.50	0.45	1557	7.50	3.38	0.45	1656	7.32	3.29	0.45	1701	7.01	3.16	0.45	1772
24	18	7.17	5.23	0.73	1432	6.86	5.01	0.73	1504	6.59	4.81	0.73	1575	6.34	4.63	0.73	1647
24	20	7.47	4.56	0.61	1504	7.17	4.37	0.61	1593	6.95	4.24	0.61	1629	6.71	4.09	0.61	1701
24	22	7.78	3.81	0.49	1557	7.50	3.68	0.49	1656	7.32	3.59	0.49	1701	7.01	3.44	0.49	1772
24	24	8.17	3.02	0.37	1629	7.87	2.91	0.37	1718	7.69	2.84	0.37	1772	7.44	2.75	0.37	1862
25	18	7.17	5.52	0.77	1432	6.86	5.28	0.77	1504	6.59	5.07	0.77	1575	6.34	4.88	0.77	1647
25	20	7.47	4.86	0.65	1504	7.17	4.66	0.65	1593	6.95	4.52	0.65	1629	6.71	4.36	0.65	1701
25	22	7.78	4.12	0.53	1557	7.50	3.98	0.53	1656	7.32	3.88	0.53	1701	7.01	3.72	0.53	1772
25	24	8.17	3.35	0.41	1629	7.87	3.23	0.41	1718	7.69	3.15	0.41	1772	7.44	3.05	0.41	1862
26	18	7.17	5.81	0.81	1432	6.86	5.56	0.81	1504	6.59	5.34	0.81	1575	6.34	5.14	0.81	1647
26	20	7.47	5.16	0.69	1504	7.17	4.95	0.69	1593	6.95	4.80	0.69	1629	6.71	4.63	0.69	1701
26	22	7.78	4.43	0.57	1557	7.50	4.28	0.57	1656	7.32	4.17	0.57	1701	7.01	4.00	0.57	1772
26	24	8.17	3.68	0.45	1629	7.87	3.54	0.45	1718	7.69	3.46	0.45	1772	7.44	3.35	0.45	1862
26	26	8.42	2.78	0.33	1718	8.17	2.70	0.33	1808	8.05	2.66	0.33	1862	7.81	2.58	0.33	1915
27	18	7.17	6.09	0.85	1432	6.86	5.83	0.85	1504	6.59	5.60	0.85	1575	6.34	5.39	0.85	1647
27	20	7.47	5.45	0.73	1504	7.17	5.23	0.73	1593	6.95	5.08	0.73	1629	6.71	4.90	0.73	1701
27	22	7.78	4.74	0.61	1557	7.50	4.58	0.61	1656	7.32	4.47	0.61	1701	7.01	4.28	0.61	1772
27	24	8.17	4.01	0.49	1629	7.87	3.86	0.49	1718	7.69	3.77	0.49	1772	7.44	3.65	0.49	1862
27	26	8.42	3.11	0.37	1718	8.17	3.02	0.37	1808	8.05	2.98	0.37	1862	7.81	2.89	0.37	1915
28	18	7.17	6.38	0.89	1432	6.86	6.11	0.89	1504	6.59	5.86	0.89	1575	6.34	5.65	0.89	1647
28	20	7.47	5.75	0.77	1504	7.17	5.52	0.77	1593	6.95	5.35	0.77	1629	6.71	5.17	0.77	1701
28	22	7.78	5.06	0.65	1557	7.50	4.88	0.65	1656	7.32	4.76	0.65	1701	7.01	4.56	0.65	1772
28	24	8.17	4.33	0.53	1629	7.87	4.17	0.53	1718	7.69	4.07	0.53	1772	7.44	3.94	0.53	1862
28	26	8.42	3.45	0.41	1718	8.17	3.35	0.41	1808	8.05	3.30	0.41	1862	7.81	3.20	0.41	1915
29	18	7.17	6.67	0.93	1432	6.86	6.38	0.93	1504	6.59	6.13	0.93	1575	6.34	5.90	0.93	1647
29	20	7.47	6.05	0.81	1504	7.17	5.81	0.81	1593	6.95	5.63	0.81	1629	6.71	5.44	0.81	1701
29	22	7.78	5.37	0.69	1557	7.50	5.18	0.69	1656	7.32	5.05	0.69	1701	7.01	4.84	0.69	1772
29	24	8.17	4.66	0.57	1629	7.87	4.49	0.57	1718	7.69	4.38	0.57	1772	7.44	4.24	0.57	1862
29	26	8.42	3.79	0.45	1718	8.17	3.68	0.45	1808	8.05	3.62	0.45	1862	7.81	3.51	0.45	1915
30	18	7.17	6.95	0.97	1432	6.86	6.66	0.97	1504	6.59	6.39	0.97	1575	6.34	6.15	0.97	1647
30	20	7.47	6.35	0.85	1504	7.17	6.09	0.85	1593	6.95	5.91	0.85	1629	6.71	5.70	0.85	1701
30	22	7.78	5.68	0.73	1557	7.50	5.48	0.73	1656	7.32	5.34	0.73	1701	7.01	5.12	0.73	1772
30	24	8.17	4.99	0.61	1629	7.87	4.80	0.61	1718	7.69	4.69	0.61	1772	7.44	4.54	0.61	1862
30	26	8.42	4.12	0.49	1718	8.17	4.01	0.49	1808	8.05	3.95	0.49	1862	7.81	3.83	0.49	1915
31	18	7.17	7.17	1.00	1432	6.86	6.86	1.00	1504	6.59	6.59	1.00	1575	6.34	6.34	1.00	1647
31	20	7.47	6.65	0.89	1504	7.17	6.38	0.89	1593	6.95	6.19	0.89	1629	6.71	5.97	0.89	1701
31	22	7.78	5.99	0.77	1557	7.50	5.78	0.77	1656	7.32	5.64	0.77	1701	7.01	5.40	0.77	1772
31	24	8.17	5.31	0.65	1629	7.87	5.11	0.65	1718	7.69	5.00	0.65	1772	7.44	4.84	0.65	1862
31	26	8.42	4.46	0.53	1718	8.17	4.33	0.53	1808	8.05	4.27	0.53	1862	7.81	4.14	0.53	1915
32	18	7.17	7.17	1.00	1432	6.86	6.86	1.00	1504	6.59	6.59	1.00	1575	6.34	6.34	1.00	1647
32	20	7.47	6.95	0.93	1504	7.17	6.67	0.93	1593	6.95	6.47	0.93	1629	6.71	6.24	0.93	1701
32	22	7.78	6.30	0.81	1557	7.50	6.08	0.81	1656	7.32	5.93	0.81	1701	7.01	5.68	0.81	1772
32	24	8.17	5.64	0.69	1629	7.87	5.43	0.69	1718	7.69	5.30	0.69	1772	7.44	5.13	0.69	1862
32	26	8.42	4.80	0.57	1718	8.17	4.66	0.57	1808	8.05	4.59	0.57	1862	7.81	4.45	0.57	1915

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE CURVES COOL operation at Rated frequency

MSZ-GF60VE2: MUZ-GF60VE

CAPACITY: 6.1 kW SHF: 0.79 INPUT: 1790 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)											
		35				40				46			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	5.98	3.65	0.61	1754	5.49	3.35	0.61	1862	5.06	3.09	0.61	1933
21	20	6.28	3.08	0.49	1826	5.86	2.87	0.49	1915	5.43	2.66	0.49	2023
22	18	5.98	3.89	0.65	1754	5.49	3.57	0.65	1862	5.06	3.29	0.65	1933
22	20	6.28	3.33	0.53	1826	5.86	3.10	0.53	1915	5.43	2.88	0.53	2023
22	22	6.65	2.73	0.41	1897	6.22	2.55	0.41	2005	5.79	2.38	0.41	2076
23	18	5.98	4.12	0.69	1754	5.49	3.79	0.69	1862	5.06	3.49	0.69	1933
23	20	6.28	3.58	0.57	1826	5.86	3.34	0.57	1915	5.43	3.09	0.57	2023
23	22	6.65	2.99	0.45	1897	6.22	2.80	0.45	2005	5.79	2.61	0.45	2076
24	18	5.98	4.36	0.73	1754	5.49	4.01	0.73	1862	5.06	3.70	0.73	1933
24	20	6.28	3.83	0.61	1826	5.86	3.57	0.61	1915	5.43	3.31	0.61	2023
24	22	6.65	3.26	0.49	1897	6.22	3.05	0.49	2005	5.79	2.84	0.49	2076
24	24	7.01	2.60	0.37	1969	6.59	2.44	0.37	2059	6.22	2.30	0.37	2148
25	18	5.98	4.60	0.77	1754	5.49	4.23	0.77	1862	5.06	3.90	0.77	1933
25	20	6.28	4.08	0.65	1826	5.86	3.81	0.65	1915	5.43	3.53	0.65	2023
25	22	6.65	3.52	0.53	1897	6.22	3.30	0.53	2005	5.79	3.07	0.53	2076
25	24	7.01	2.88	0.41	1969	6.59	2.70	0.41	2059	6.22	2.55	0.41	2148
26	18	5.98	4.84	0.81	1754	5.49	4.45	0.81	1862	5.06	4.10	0.81	1933
26	20	6.28	4.34	0.69	1826	5.86	4.04	0.69	1915	5.43	3.75	0.69	2023
26	22	6.65	3.79	0.57	1897	6.22	3.55	0.57	2005	5.79	3.30	0.57	2076
26	24	7.01	3.16	0.45	1969	6.59	2.96	0.45	2059	6.22	2.80	0.45	2148
26	26	7.38	2.44	0.33	2041	6.95	2.29	0.33	2130	6.53	2.15	0.33	2220
27	18	5.98	5.08	0.85	1754	5.49	4.67	0.85	1862	5.06	4.30	0.85	1933
27	20	6.28	4.59	0.73	1826	5.86	4.27	0.73	1915	5.43	3.96	0.73	2023
27	22	6.65	4.06	0.61	1897	6.22	3.80	0.61	2005	5.79	3.53	0.61	2076
27	24	7.01	3.44	0.49	1969	6.59	3.23	0.49	2059	6.22	3.05	0.49	2148
27	26	7.38	2.73	0.37	2041	6.95	2.57	0.37	2130	6.53	2.41	0.37	2220
28	18	5.98	5.32	0.89	1754	5.49	4.89	0.89	1862	5.06	4.51	0.89	1933
28	20	6.28	4.84	0.77	1826	5.86	4.51	0.77	1915	5.43	4.18	0.77	2023
28	22	6.65	4.32	0.65	1897	6.22	4.04	0.65	2005	5.79	3.77	0.65	2076
28	24	7.01	3.72	0.53	1969	6.59	3.49	0.53	2059	6.22	3.30	0.53	2148
28	26	7.38	3.03	0.41	2041	6.95	2.85	0.41	2130	6.53	2.68	0.41	2220
29	18	5.98	5.56	0.93	1754	5.49	5.11	0.93	1862	5.06	4.71	0.93	1933
29	20	6.28	5.09	0.81	1826	5.86	4.74	0.81	1915	5.43	4.40	0.81	2023
29	22	6.65	4.59	0.69	1897	6.22	4.29	0.69	2005	5.79	4.00	0.69	2076
29	24	7.01	4.00	0.57	1969	6.59	3.76	0.57	2059	6.22	3.55	0.57	2148
29	26	7.38	3.32	0.45	2041	6.95	3.13	0.45	2130	6.53	2.94	0.45	2220
30	18	5.98	5.80	0.97	1754	5.49	5.33	0.97	1862	5.06	4.91	0.97	1933
30	20	6.28	5.34	0.85	1826	5.86	4.98	0.85	1915	5.43	4.61	0.85	2023
30	22	6.65	4.85	0.73	1897	6.22	4.54	0.73	2005	5.79	4.23	0.73	2076
30	24	7.01	4.28	0.61	1969	6.59	4.02	0.61	2059	6.22	3.80	0.61	2148
30	26	7.38	3.62	0.49	2041	6.95	3.41	0.49	2130	6.53	3.20	0.49	2220
31	18	5.98	5.98	1.00	1754	5.49	5.49	1.00	1862	5.06	5.06	1.00	1933
31	20	6.28	5.59	0.89	1826	5.86	5.21	0.89	1915	5.43	4.83	0.89	2023
31	22	6.65	5.12	0.77	1897	6.22	4.79	0.77	2005	5.79	4.46	0.77	2076
31	24	7.01	4.56	0.65	1969	6.59	4.28	0.65	2059	6.22	4.04	0.65	2148
31	26	7.38	3.91	0.53	2041	6.95	3.69	0.53	2130	6.53	3.46	0.53	2220
32	18	5.98	5.98	1.00	1754	5.49	5.49	1.00	1862	5.06	5.06	1.00	1933
32	20	6.28	5.84	0.93	1826	5.86	5.45	0.93	1915	5.43	5.05	0.93	2023
32	22	6.65	5.39	0.81	1897	6.22	5.04	0.81	2005	5.79	4.69	0.81	2076
32	24	7.01	4.84	0.69	1969	6.59	4.55	0.69	2059	6.22	4.29	0.69	2148
32	26	7.38	4.21	0.57	2041	6.95	3.96	0.57	2130	6.53	3.72	0.57	2220

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE CURVES COOL operation at Rated frequency

MSZ-GF71VE2: MUZ-GF71VE

CAPACITY: 7.1 kW SHF: 0.78 INPUT: 2130 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)															
		21				25				27				30			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	8.34	5.01	0.60	1704	7.99	4.79	0.60	1789	7.67	4.60	0.60	1874	7.38	4.43	0.60	1960
21	20	8.70	4.17	0.48	1789	8.34	4.00	0.48	1896	8.09	3.89	0.48	1938	7.81	3.75	0.48	2024
22	18	8.34	5.34	0.64	1704	7.99	5.11	0.64	1789	7.67	4.91	0.64	1874	7.38	4.73	0.64	1960
22	20	8.70	4.52	0.52	1789	8.34	4.34	0.52	1896	8.09	4.21	0.52	1938	7.81	4.06	0.52	2024
22	22	9.05	3.62	0.40	1853	8.73	3.49	0.40	1970	8.52	3.41	0.40	2024	8.17	3.27	0.40	2109
23	18	8.34	5.67	0.68	1704	7.99	5.43	0.68	1789	7.67	5.21	0.68	1874	7.38	5.02	0.68	1960
23	20	8.70	4.87	0.56	1789	8.34	4.67	0.56	1896	8.09	4.53	0.56	1938	7.81	4.37	0.56	2024
23	22	9.05	3.98	0.44	1853	8.73	3.84	0.44	1970	8.52	3.75	0.44	2024	8.17	3.59	0.44	2109
24	18	8.34	6.01	0.72	1704	7.99	5.75	0.72	1789	7.67	5.52	0.72	1874	7.38	5.32	0.72	1960
24	20	8.70	5.22	0.60	1789	8.34	5.01	0.60	1896	8.09	4.86	0.60	1938	7.81	4.69	0.60	2024
24	22	9.05	4.35	0.48	1853	8.73	4.19	0.48	1970	8.52	4.09	0.48	2024	8.17	3.92	0.48	2109
24	24	9.51	3.43	0.36	1938	9.16	3.30	0.36	2045	8.95	3.22	0.36	2109	8.66	3.12	0.36	2215
25	18	8.34	6.34	0.76	1704	7.99	6.07	0.76	1789	7.67	5.83	0.76	1874	7.38	5.61	0.76	1960
25	20	8.70	5.57	0.64	1789	8.34	5.34	0.64	1896	8.09	5.18	0.64	1938	7.81	5.00	0.64	2024
25	22	9.05	4.71	0.52	1853	8.73	4.54	0.52	1970	8.52	4.43	0.52	2024	8.17	4.25	0.52	2109
25	24	9.51	3.81	0.40	1938	9.16	3.66	0.40	2045	8.95	3.58	0.40	2109	8.66	3.46	0.40	2215
26	18	8.34	6.67	0.80	1704	7.99	6.39	0.80	1789	7.67	6.13	0.80	1874	7.38	5.91	0.80	1960
26	20	8.70	5.91	0.68	1789	8.34	5.67	0.68	1896	8.09	5.50	0.68	1938	7.81	5.31	0.68	2024
26	22	9.05	5.07	0.56	1853	8.73	4.89	0.56	1970	8.52	4.77	0.56	2024	8.17	4.57	0.56	2109
26	24	9.51	4.19	0.44	1938	9.16	4.03	0.44	2045	8.95	3.94	0.44	2109	8.66	3.81	0.44	2215
26	26	9.80	3.14	0.32	2045	9.51	3.04	0.32	2151	9.37	3.00	0.32	2215	9.09	2.91	0.32	2279
27	18	8.34	7.01	0.84	1704	7.99	6.71	0.84	1789	7.67	6.44	0.84	1874	7.38	6.20	0.84	1960
27	20	8.70	6.26	0.72	1789	8.34	6.01	0.72	1896	8.09	5.83	0.72	1938	7.81	5.62	0.72	2024
27	22	9.05	5.43	0.60	1853	8.73	5.24	0.60	1970	8.52	5.11	0.60	2024	8.17	4.90	0.60	2109
27	24	9.51	4.57	0.48	1938	9.16	4.40	0.48	2045	8.95	4.29	0.48	2109	8.66	4.16	0.48	2215
27	26	9.80	3.53	0.36	2045	9.51	3.43	0.36	2151	9.37	3.37	0.36	2215	9.09	3.27	0.36	2279
28	18	8.34	7.34	0.88	1704	7.99	7.03	0.88	1789	7.67	6.75	0.88	1874	7.38	6.50	0.88	1960
28	20	8.70	6.61	0.76	1789	8.34	6.34	0.76	1896	8.09	6.15	0.76	1938	7.81	5.94	0.76	2024
28	22	9.05	5.79	0.64	1853	8.73	5.59	0.64	1970	8.52	5.45	0.64	2024	8.17	5.23	0.64	2109
28	24	9.51	4.95	0.52	1938	9.16	4.76	0.52	2045	8.95	4.65	0.52	2109	8.66	4.50	0.52	2215
28	26	9.80	3.92	0.40	2045	9.51	3.81	0.40	2151	9.37	3.75	0.40	2215	9.09	3.64	0.40	2279
29	18	8.34	7.68	0.92	1704	7.99	7.35	0.92	1789	7.67	7.05	0.92	1874	7.38	6.79	0.92	1960
29	20	8.70	6.96	0.80	1789	8.34	6.67	0.80	1896	8.09	6.48	0.80	1938	7.81	6.25	0.80	2024
29	22	9.05	6.16	0.68	1853	8.73	5.94	0.68	1970	8.52	5.79	0.68	2024	8.17	5.55	0.68	2109
29	24	9.51	5.33	0.56	1938	9.16	5.13	0.56	2045	8.95	5.01	0.56	2109	8.66	4.85	0.56	2215
29	26	9.80	4.31	0.44	2045	9.51	4.19	0.44	2151	9.37	4.12	0.44	2215	9.09	4.00	0.44	2279
30	18	8.34	8.01	0.96	1704	7.99	7.67	0.96	1789	7.67	7.36	0.96	1874	7.38	7.09	0.96	1960
30	20	8.70	7.31	0.84	1789	8.34	7.01	0.84	1896	8.09	6.80	0.84	1938	7.81	6.56	0.84	2024
30	22	9.05	6.52	0.72	1853	8.73	6.29	0.72	1970	8.52	6.13	0.72	2024	8.17	5.88	0.72	2109
30	24	9.51	5.71	0.60	1938	9.16	5.50	0.60	2045	8.95	5.37	0.60	2109	8.66	5.20	0.60	2215
30	26	9.80	4.70	0.48	2045	9.51	4.57	0.48	2151	9.37	4.50	0.48	2215	9.09	4.36	0.48	2279
31	18	8.34	8.34	1.00	1704	7.99	7.99	1.00	1789	7.67	7.67	1.00	1874	7.38	7.38	1.00	1960
31	20	8.70	7.65	0.88	1789	8.34	7.34	0.88	1896	8.09	7.12	0.88	1938	7.81	6.87	0.88	2024
31	22	9.05	6.88	0.76	1853	8.73	6.64	0.76	1970	8.52	6.48	0.76	2024	8.17	6.21	0.76	2109
31	24	9.51	6.09	0.64	1938	9.16	5.86	0.64	2045	8.95	5.73	0.64	2109	8.66	5.54	0.64	2215
31	26	9.80	5.09	0.52	2045	9.51	4.95	0.52	2151	9.37	4.87	0.52	2215	9.09	4.73	0.52	2279
32	18	8.34	8.34	1.00	1704	7.99	7.99	1.00	1789	7.67	7.67	1.00	1874	7.38	7.38	1.00	1960
32	20	8.70	8.00	0.92	1789	8.34	7.68	0.92	1896	8.09	7.45	0.92	1938	7.81	7.19	0.92	2024
32	22	9.05	7.24	0.80	1853	8.73	6.99	0.80	1970	8.52	6.82	0.80	2024	8.17	6.53	0.80	2109
32	24	9.51	6.47	0.68	1938	9.16	6.23	0.68	2045	8.95	6.08	0.68	2109	8.66	5.89	0.68	2215
32	26	9.80	5.49	0.56	2045	9.51	5.33	0.56	2151	9.37	5.25	0.56	2215	9.09	5.09	0.56	2279

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE CURVES COOL operation at Rated frequency

MSZ-GF71VE2: MUZ-GF71VE

CAPACITY: 7.1 kW SHF: 0.78 INPUT: 2130 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)											
		35				40				46			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	6.96	4.17	0.60	2087	6.39	3.83	0.60	2215	5.89	3.54	0.60	2300
21	20	7.31	3.51	0.48	2173	6.82	3.27	0.48	2279	6.32	3.03	0.48	2407
22	18	6.96	4.45	0.64	2087	6.39	4.09	0.64	2215	5.89	3.77	0.64	2300
22	20	7.31	3.80	0.52	2173	6.82	3.54	0.52	2279	6.32	3.29	0.52	2407
22	22	7.74	3.10	0.40	2258	7.24	2.90	0.40	2386	6.75	2.70	0.40	2471
23	18	6.96	4.73	0.68	2087	6.39	4.35	0.68	2215	5.89	4.01	0.68	2300
23	20	7.31	4.10	0.56	2173	6.82	3.82	0.56	2279	6.32	3.54	0.56	2407
23	22	7.74	3.41	0.44	2258	7.24	3.19	0.44	2386	6.75	2.97	0.44	2471
24	18	6.96	5.01	0.72	2087	6.39	4.60	0.72	2215	5.89	4.24	0.72	2300
24	20	7.31	4.39	0.60	2173	6.82	4.09	0.60	2279	6.32	3.79	0.60	2407
24	22	7.74	3.71	0.48	2258	7.24	3.48	0.48	2386	6.75	3.24	0.48	2471
24	24	8.17	2.94	0.36	2343	7.67	2.76	0.36	2450	7.24	2.61	0.36	2556
25	18	6.96	5.29	0.76	2087	6.39	4.86	0.76	2215	5.89	4.48	0.76	2300
25	20	7.31	4.68	0.64	2173	6.82	4.36	0.64	2279	6.32	4.04	0.64	2407
25	22	7.74	4.02	0.52	2258	7.24	3.77	0.52	2386	6.75	3.51	0.52	2471
25	24	8.17	3.27	0.40	2343	7.67	3.07	0.40	2450	7.24	2.90	0.40	2556
26	18	6.96	5.57	0.80	2087	6.39	5.11	0.80	2215	5.89	4.71	0.80	2300
26	20	7.31	4.97	0.68	2173	6.82	4.63	0.68	2279	6.32	4.30	0.68	2407
26	22	7.74	4.33	0.56	2258	7.24	4.06	0.56	2386	6.75	3.78	0.56	2471
26	24	8.17	3.59	0.44	2343	7.67	3.37	0.44	2450	7.24	3.19	0.44	2556
26	26	8.59	2.75	0.32	2428	8.09	2.59	0.32	2535	7.60	2.43	0.32	2641
27	18	6.96	5.84	0.84	2087	6.39	5.37	0.84	2215	5.89	4.95	0.84	2300
27	20	7.31	5.27	0.72	2173	6.82	4.91	0.72	2279	6.32	4.55	0.72	2407
27	22	7.74	4.64	0.60	2258	7.24	4.35	0.60	2386	6.75	4.05	0.60	2471
27	24	8.17	3.92	0.48	2343	7.67	3.68	0.48	2450	7.24	3.48	0.48	2556
27	26	8.59	3.09	0.36	2428	8.09	2.91	0.36	2535	7.60	2.73	0.36	2641
28	18	6.96	6.12	0.88	2087	6.39	5.62	0.88	2215	5.89	5.19	0.88	2300
28	20	7.31	5.56	0.76	2173	6.82	5.18	0.76	2279	6.32	4.80	0.76	2407
28	22	7.74	4.95	0.64	2258	7.24	4.63	0.64	2386	6.75	4.32	0.64	2471
28	24	8.17	4.25	0.52	2343	7.67	3.99	0.52	2450	7.24	3.77	0.52	2556
28	26	8.59	3.44	0.40	2428	8.09	3.24	0.40	2535	7.60	3.04	0.40	2641
29	18	6.96	6.40	0.92	2087	6.39	5.88	0.92	2215	5.89	5.42	0.92	2300
29	20	7.31	5.85	0.80	2173	6.82	5.45	0.80	2279	6.32	5.06	0.80	2407
29	22	7.74	5.26	0.68	2258	7.24	4.92	0.68	2386	6.75	4.59	0.68	2471
29	24	8.17	4.57	0.56	2343	7.67	4.29	0.56	2450	7.24	4.06	0.56	2556
29	26	8.59	3.78	0.44	2428	8.09	3.56	0.44	2535	7.60	3.34	0.44	2641
30	18	6.96	6.68	0.96	2087	6.39	6.13	0.96	2215	5.89	5.66	0.96	2300
30	20	7.31	6.14	0.84	2173	6.82	5.73	0.84	2279	6.32	5.31	0.84	2407
30	22	7.74	5.57	0.72	2258	7.24	5.21	0.72	2386	6.75	4.86	0.72	2471
30	24	8.17	4.90	0.60	2343	7.67	4.60	0.60	2450	7.24	4.35	0.60	2556
30	26	8.59	4.12	0.48	2428	8.09	3.89	0.48	2535	7.60	3.65	0.48	2641
31	18	6.96	6.96	1.00	2087	6.39	6.39	1.00	2215	5.89	5.89	1.00	2300
31	20	7.31	6.44	0.88	2173	6.82	6.00	0.88	2279	6.32	5.56	0.88	2407
31	22	7.74	5.88	0.76	2258	7.24	5.50	0.76	2386	6.75	5.13	0.76	2471
31	24	8.17	5.23	0.64	2343	7.67	4.91	0.64	2450	7.24	4.63	0.64	2556
31	26	8.59	4.47	0.52	2428	8.09	4.21	0.52	2535	7.60	3.95	0.52	2641
32	18	6.96	6.96	1.00	2087	6.39	6.39	1.00	2215	5.89	5.89	1.00	2300
32	20	7.31	6.73	0.92	2173	6.82	6.27	0.92	2279	6.32	5.81	0.92	2407
32	22	7.74	6.19	0.80	2258	7.24	5.79	0.80	2386	6.75	5.40	0.80	2471
32	24	8.17	5.55	0.68	2343	7.67	5.21	0.68	2450	7.24	4.92	0.68	2556
32	26	8.59	4.81	0.56	2428	8.09	4.53	0.56	2535	7.60	4.25	0.56	2641

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE DATA COOL operation at Rated frequency

MSZ-DM25VA: MUZ-DM25VA

CAPACITY: 2.5 kW SHF: 0.89 INPUT: 710 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)															
		21				25				27				30			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	2.94	2.09	0.71	568	2.81	2.00	0.71	596	2.70	1.92	0.71	625	2.60	1.85	0.71	653
21	20	3.06	1.81	0.59	596	2.94	1.73	0.59	632	2.85	1.68	0.59	646	2.75	1.62	0.59	675
22	18	2.94	2.20	0.75	568	2.81	2.11	0.75	596	2.70	2.03	0.75	625	2.60	1.95	0.75	653
22	20	3.06	1.93	0.63	596	2.94	1.85	0.63	632	2.85	1.80	0.63	646	2.75	1.73	0.63	675
22	22	3.19	1.63	0.51	618	3.08	1.57	0.51	657	3.00	1.53	0.51	675	2.88	1.47	0.51	703
23	18	2.94	2.32	0.79	568	2.81	2.22	0.79	596	2.70	2.13	0.79	625	2.60	2.05	0.79	653
23	20	3.06	2.05	0.67	596	2.94	1.97	0.67	632	2.85	1.91	0.67	646	2.75	1.84	0.67	675
23	22	3.19	1.75	0.55	618	3.08	1.69	0.55	657	3.00	1.65	0.55	675	2.88	1.58	0.55	703
24	18	2.94	2.44	0.83	568	2.81	2.33	0.83	596	2.70	2.24	0.83	625	2.60	2.16	0.83	653
24	20	3.06	2.17	0.71	596	2.94	2.09	0.71	632	2.85	2.02	0.71	646	2.75	1.95	0.71	675
24	22	3.19	1.88	0.59	618	3.08	1.81	0.59	657	3.00	1.77	0.59	675	2.88	1.70	0.59	703
24	24	3.35	1.57	0.47	646	3.23	1.52	0.47	682	3.15	1.48	0.47	703	3.05	1.43	0.47	738
25	18	2.94	2.56	0.87	568	2.81	2.45	0.87	596	2.70	2.35	0.87	625	2.60	2.26	0.87	653
25	20	3.06	2.30	0.75	596	2.94	2.20	0.75	632	2.85	2.14	0.75	646	2.75	2.06	0.75	675
25	22	3.19	2.01	0.63	618	3.08	1.94	0.63	657	3.00	1.89	0.63	675	2.88	1.81	0.63	703
25	24	3.35	1.71	0.51	646	3.23	1.64	0.51	682	3.15	1.61	0.51	703	3.05	1.56	0.51	738
26	18	2.94	2.67	0.91	568	2.81	2.56	0.91	596	2.70	2.46	0.91	625	2.60	2.37	0.91	653
26	20	3.06	2.42	0.79	596	2.94	2.32	0.79	632	2.85	2.25	0.79	646	2.75	2.17	0.79	675
26	22	3.19	2.14	0.67	618	3.08	2.06	0.67	657	3.00	2.01	0.67	675	2.88	1.93	0.67	703
26	24	3.35	1.84	0.55	646	3.23	1.77	0.55	682	3.15	1.73	0.55	703	3.05	1.68	0.55	738
26	26	3.45	1.48	0.43	682	3.35	1.44	0.43	717	3.30	1.42	0.43	738	3.20	1.38	0.43	760
27	18	2.94	2.79	0.95	568	2.81	2.67	0.95	596	2.70	2.57	0.95	625	2.60	2.47	0.95	653
27	20	3.06	2.54	0.83	596	2.94	2.44	0.83	632	2.85	2.37	0.83	646	2.75	2.28	0.83	675
27	22	3.19	2.26	0.71	618	3.08	2.18	0.71	657	3.00	2.13	0.71	675	2.88	2.04	0.71	703
27	24	3.35	1.98	0.59	646	3.23	1.90	0.59	682	3.15	1.86	0.59	703	3.05	1.80	0.59	738
27	26	3.45	1.62	0.47	682	3.35	1.57	0.47	717	3.30	1.55	0.47	738	3.20	1.50	0.47	760
28	18	2.94	2.91	0.99	568	2.81	2.78	0.99	596	2.70	2.67	0.99	625	2.60	2.57	0.99	653
28	20	3.06	2.66	0.87	596	2.94	2.56	0.87	632	2.85	2.48	0.87	646	2.75	2.39	0.87	675
28	22	3.19	2.39	0.75	618	3.08	2.31	0.75	657	3.00	2.25	0.75	675	2.88	2.16	0.75	703
28	24	3.35	2.11	0.63	646	3.23	2.03	0.63	682	3.15	1.98	0.63	703	3.05	1.92	0.63	738
28	26	3.45	1.76	0.51	682	3.35	1.71	0.51	717	3.30	1.68	0.51	738	3.20	1.63	0.51	760
29	18	2.94	2.94	1.00	568	2.81	2.81	1.00	596	2.70	2.70	1.00	625	2.60	2.60	1.00	653
29	20	3.06	2.79	0.91	596	2.94	2.67	0.91	632	2.85	2.59	0.91	646	2.75	2.50	0.91	675
29	22	3.19	2.52	0.79	618	3.08	2.43	0.79	657	3.00	2.37	0.79	675	2.88	2.27	0.79	703
29	24	3.35	2.24	0.67	646	3.23	2.16	0.67	682	3.15	2.11	0.67	703	3.05	2.04	0.67	738
29	26	3.45	1.90	0.55	682	3.35	1.84	0.55	717	3.30	1.82	0.55	738	3.20	1.76	0.55	760
30	18	2.94	2.94	1.00	568	2.81	2.81	1.00	596	2.70	2.70	1.00	625	2.60	2.60	1.00	653
30	20	3.06	2.91	0.95	596	2.94	2.79	0.95	632	2.85	2.71	0.95	646	2.75	2.61	0.95	675
30	22	3.19	2.65	0.83	618	3.08	2.55	0.83	657	3.00	2.49	0.83	675	2.88	2.39	0.83	703
30	24	3.35	2.38	0.71	646	3.23	2.29	0.71	682	3.15	2.24	0.71	703	3.05	2.17	0.71	738
30	26	3.45	2.04	0.59	682	3.35	1.98	0.59	717	3.30	1.95	0.59	738	3.20	1.89	0.59	760
31	18	2.94	2.94	1.00	568	2.81	2.81	1.00	596	2.70	2.70	1.00	625	2.60	2.60	1.00	653
31	20	3.06	3.03	0.99	596	2.94	2.91	0.99	632	2.85	2.82	0.99	646	2.75	2.72	0.99	675
31	22	3.19	2.77	0.87	618	3.08	2.68	0.87	657	3.00	2.61	0.87	675	2.88	2.50	0.87	703
31	24	3.35	2.51	0.75	646	3.23	2.42	0.75	682	3.15	2.36	0.75	703	3.05	2.29	0.75	738
31	26	3.45	2.17	0.63	682	3.35	2.11	0.63	717	3.30	2.08	0.63	738	3.20	2.02	0.63	760
32	18	2.94	2.94	1.00	568	2.81	2.81	1.00	596	2.70	2.70	1.00	625	2.60	2.60	1.00	653
32	20	3.06	3.06	1.00	596	2.94	2.94	1.00	632	2.85	2.85	1.00	646	2.75	2.75	1.00	675
32	22	3.19	2.90	0.91	618	3.08	2.80	0.91	657	3.00	2.73	0.91	675	2.88	2.62	0.91	703
32	24	3.35	2.65	0.79	646	3.23	2.55	0.79	682	3.15	2.49	0.79	703	3.05	2.41	0.79	738
32	26	3.45	2.31	0.67	682	3.35	2.24	0.67	717	3.30	2.21	0.67	738	3.20	2.14	0.67	760

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE DATA COOL operation at Rated frequency

MSZ-DM25VA: MUZ-DM25VA

CAPACITY: 2.5 kW SHF: 0.89 INPUT: 710 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)											
		35				40				46			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	2.45	1.74	0.71	696	2.25	1.60	0.71	738	2.08	1.47	0.71	767
21	20	2.58	1.52	0.59	724	2.40	1.42	0.59	760	2.23	1.31	0.59	802
22	18	2.45	1.84	0.75	696	2.25	1.69	0.75	738	2.08	1.56	0.75	767
22	20	2.58	1.62	0.63	724	2.40	1.51	0.63	760	2.23	1.40	0.63	802
22	22	2.73	1.39	0.51	753	2.55	1.30	0.51	795	2.38	1.21	0.51	824
23	18	2.45	1.94	0.79	696	2.25	1.78	0.79	738	2.08	1.64	0.79	767
23	20	2.58	1.73	0.67	724	2.40	1.61	0.67	760	2.23	1.49	0.67	802
23	22	2.73	1.50	0.55	753	2.55	1.40	0.55	795	2.38	1.31	0.55	824
24	18	2.45	2.03	0.83	696	2.25	1.87	0.83	738	2.08	1.72	0.83	767
24	20	2.58	1.83	0.71	724	2.40	1.70	0.71	760	2.23	1.58	0.71	802
24	22	2.73	1.61	0.59	753	2.55	1.50	0.59	795	2.38	1.40	0.59	824
24	24	2.88	1.35	0.47	781	2.70	1.27	0.47	817	2.55	1.20	0.47	852
25	18	2.45	2.13	0.87	696	2.25	1.96	0.87	738	2.08	1.81	0.87	767
25	20	2.58	1.93	0.75	724	2.40	1.80	0.75	760	2.23	1.67	0.75	802
25	22	2.73	1.72	0.63	753	2.55	1.61	0.63	795	2.38	1.50	0.63	824
25	24	2.88	1.47	0.51	781	2.70	1.38	0.51	817	2.55	1.30	0.51	852
26	18	2.45	2.23	0.91	696	2.25	2.05	0.91	738	2.08	1.89	0.91	767
26	20	2.58	2.03	0.79	724	2.40	1.90	0.79	760	2.23	1.76	0.79	802
26	22	2.73	1.83	0.67	753	2.55	1.71	0.67	795	2.38	1.59	0.67	824
26	24	2.88	1.58	0.55	781	2.70	1.49	0.55	817	2.55	1.40	0.55	852
26	26	3.03	1.30	0.43	809	2.85	1.23	0.43	845	2.68	1.15	0.43	880
27	18	2.45	2.33	0.95	696	2.25	2.14	0.95	738	2.08	1.97	0.95	767
27	20	2.58	2.14	0.83	724	2.40	1.99	0.83	760	2.23	1.85	0.83	802
27	22	2.73	1.93	0.71	753	2.55	1.81	0.71	795	2.38	1.69	0.71	824
27	24	2.88	1.70	0.59	781	2.70	1.59	0.59	817	2.55	1.50	0.59	852
27	26	3.03	1.42	0.47	809	2.85	1.34	0.47	845	2.68	1.26	0.47	880
28	18	2.45	2.43	0.99	696	2.25	2.23	0.99	738	2.08	2.05	0.99	767
28	20	2.58	2.24	0.87	724	2.40	2.09	0.87	760	2.23	1.94	0.87	802
28	22	2.73	2.04	0.75	753	2.55	1.91	0.75	795	2.38	1.78	0.75	824
28	24	2.88	1.81	0.63	781	2.70	1.70	0.63	817	2.55	1.61	0.63	852
28	26	3.03	1.54	0.51	809	2.85	1.45	0.51	845	2.68	1.36	0.51	880
29	18	2.45	2.45	1.00	696	2.25	2.25	1.00	738	2.08	2.08	1.00	767
29	20	2.58	2.34	0.91	724	2.40	2.18	0.91	760	2.23	2.02	0.91	802
29	22	2.73	2.15	0.79	753	2.55	2.01	0.79	795	2.38	1.88	0.79	824
29	24	2.88	1.93	0.67	781	2.70	1.81	0.67	817	2.55	1.71	0.67	852
29	26	3.03	1.66	0.55	809	2.85	1.57	0.55	845	2.68	1.47	0.55	880
30	18	2.45	2.45	1.00	696	2.25	2.25	1.00	738	2.08	2.08	1.00	767
30	20	2.58	2.45	0.95	724	2.40	2.28	0.95	760	2.23	2.11	0.95	802
30	22	2.73	2.26	0.83	753	2.55	2.12	0.83	795	2.38	1.97	0.83	824
30	24	2.88	2.04	0.71	781	2.70	1.92	0.71	817	2.55	1.81	0.71	852
30	26	3.03	1.78	0.59	809	2.85	1.68	0.59	845	2.68	1.58	0.59	880
31	18	2.45	2.45	1.00	696	2.25	2.25	1.00	738	2.08	2.08	1.00	767
31	20	2.58	2.55	0.99	724	2.40	2.38	0.99	760	2.23	2.20	0.99	802
31	22	2.73	2.37	0.87	753	2.55	2.22	0.87	795	2.38	2.07	0.87	824
31	24	2.88	2.16	0.75	781	2.70	2.03	0.75	817	2.55	1.91	0.75	852
31	26	3.03	1.91	0.63	809	2.85	1.80	0.63	845	2.68	1.69	0.63	880
32	18	2.45	2.45	1.00	696	2.25	2.25	1.00	738	2.08	2.08	1.00	767
32	20	2.58	2.58	1.00	724	2.40	2.40	1.00	760	2.23	2.23	1.00	802
32	22	2.73	2.48	0.91	753	2.55	2.32	0.91	795	2.38	2.16	0.91	824
32	24	2.88	2.27	0.79	781	2.70	2.13	0.79	817	2.55	2.01	0.79	852
32	26	3.03	2.03	0.67	809	2.85	1.91	0.67	845	2.68	1.79	0.67	880

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE DATA COOL operation at Rated frequency

MSZ-DM35VA: MUZ-DM35VA

CAPACITY: 3.15 kW SHF: 0.87 INPUT: 1020 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)															
		21				25				27				30			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	3.70	2.55	0.69	816	3.54	2.45	0.69	857	3.40	2.35	0.69	898	3.28	2.26	0.69	938
21	20	3.86	2.20	0.57	857	3.70	2.11	0.57	908	3.59	2.05	0.57	928	3.47	1.98	0.57	969
22	18	3.70	2.70	0.73	816	3.54	2.59	0.73	857	3.40	2.48	0.73	898	3.28	2.39	0.73	938
22	20	3.86	2.35	0.61	857	3.70	2.26	0.61	908	3.59	2.19	0.61	928	3.47	2.11	0.61	969
22	22	4.02	1.97	0.49	887	3.87	1.90	0.49	944	3.78	1.85	0.49	969	3.62	1.78	0.49	1010
23	18	3.70	2.85	0.77	816	3.54	2.73	0.77	857	3.40	2.62	0.77	898	3.28	2.52	0.77	938
23	20	3.86	2.51	0.65	857	3.70	2.41	0.65	908	3.59	2.33	0.65	928	3.47	2.25	0.65	969
23	22	4.02	2.13	0.53	887	3.87	2.05	0.53	944	3.78	2.00	0.53	969	3.62	1.92	0.53	1010
24	18	3.70	3.00	0.81	816	3.54	2.87	0.81	857	3.40	2.76	0.81	898	3.28	2.65	0.81	938
24	20	3.86	2.66	0.69	857	3.70	2.55	0.69	908	3.59	2.48	0.69	928	3.47	2.39	0.69	969
24	22	4.02	2.29	0.57	887	3.87	2.21	0.57	944	3.78	2.15	0.57	969	3.62	2.06	0.57	1010
24	24	4.22	1.90	0.45	928	4.06	1.83	0.45	979	3.97	1.79	0.45	1010	3.84	1.73	0.45	1061
25	18	3.70	3.15	0.85	816	3.54	3.01	0.85	857	3.40	2.89	0.85	898	3.28	2.78	0.85	938
25	20	3.86	2.82	0.73	857	3.70	2.70	0.73	908	3.59	2.62	0.73	928	3.47	2.53	0.73	969
25	22	4.02	2.45	0.61	887	3.87	2.36	0.61	944	3.78	2.31	0.61	969	3.62	2.21	0.61	1010
25	24	4.22	2.07	0.49	928	4.06	1.99	0.49	979	3.97	1.94	0.49	1010	3.84	1.88	0.49	1061
26	18	3.70	3.29	0.89	816	3.54	3.15	0.89	857	3.40	3.03	0.89	898	3.28	2.92	0.89	938
26	20	3.86	2.97	0.77	857	3.70	2.85	0.77	908	3.59	2.77	0.77	928	3.47	2.67	0.77	969
26	22	4.02	2.61	0.65	887	3.87	2.52	0.65	944	3.78	2.46	0.65	969	3.62	2.35	0.65	1010
26	24	4.22	2.24	0.53	928	4.06	2.15	0.53	979	3.97	2.10	0.53	1010	3.84	2.04	0.53	1061
26	26	4.35	1.78	0.41	979	4.22	1.73	0.41	1030	4.16	1.70	0.41	1061	4.03	1.65	0.41	1091
27	18	3.70	3.44	0.93	816	3.54	3.30	0.93	857	3.40	3.16	0.93	898	3.28	3.05	0.93	938
27	20	3.86	3.13	0.81	857	3.70	3.00	0.81	908	3.59	2.91	0.81	928	3.47	2.81	0.81	969
27	22	4.02	2.77	0.69	887	3.87	2.67	0.69	944	3.78	2.61	0.69	969	3.62	2.50	0.69	1010
27	24	4.22	2.41	0.57	928	4.06	2.32	0.57	979	3.97	2.26	0.57	1010	3.84	2.19	0.57	1061
27	26	4.35	1.96	0.45	979	4.22	1.90	0.45	1030	4.16	1.87	0.45	1061	4.03	1.81	0.45	1091
28	18	3.70	3.59	0.97	816	3.54	3.44	0.97	857	3.40	3.30	0.97	898	3.28	3.18	0.97	938
28	20	3.86	3.28	0.85	857	3.70	3.15	0.85	908	3.59	3.05	0.85	928	3.47	2.95	0.85	969
28	22	4.02	2.93	0.73	887	3.87	2.83	0.73	944	3.78	2.76	0.73	969	3.62	2.64	0.73	1010
28	24	4.22	2.57	0.61	928	4.06	2.48	0.61	979	3.97	2.42	0.61	1010	3.84	2.34	0.61	1061
28	26	4.35	2.13	0.49	979	4.22	2.07	0.49	1030	4.16	2.04	0.49	1061	4.03	1.98	0.49	1091
29	18	3.70	3.70	1.00	816	3.54	3.54	1.00	857	3.40	3.40	1.00	898	3.28	3.28	1.00	938
29	20	3.86	3.43	0.89	857	3.70	3.29	0.89	908	3.59	3.20	0.89	928	3.47	3.08	0.89	969
29	22	4.02	3.09	0.77	887	3.87	2.98	0.77	944	3.78	2.91	0.77	969	3.62	2.79	0.77	1010
29	24	4.22	2.74	0.65	928	4.06	2.64	0.65	979	3.97	2.58	0.65	1010	3.84	2.50	0.65	1061
29	26	4.35	2.30	0.53	979	4.22	2.24	0.53	1030	4.16	2.20	0.53	1061	4.03	2.14	0.53	1091
30	18	3.70	3.70	1.00	816	3.54	3.54	1.00	857	3.40	3.40	1.00	898	3.28	3.28	1.00	938
30	20	3.86	3.59	0.93	857	3.70	3.44	0.93	908	3.59	3.34	0.93	928	3.47	3.22	0.93	969
30	22	4.02	3.25	0.81	887	3.87	3.14	0.81	944	3.78	3.06	0.81	969	3.62	2.93	0.81	1010
30	24	4.22	2.91	0.69	928	4.06	2.80	0.69	979	3.97	2.74	0.69	1010	3.84	2.65	0.69	1061
30	26	4.35	2.48	0.57	979	4.22	2.41	0.57	1030	4.16	2.37	0.57	1061	4.03	2.30	0.57	1091
31	18	3.70	3.70	1.00	816	3.54	3.54	1.00	857	3.40	3.40	1.00	898	3.28	3.28	1.00	938
31	20	3.86	3.74	0.97	857	3.70	3.59	0.97	908	3.59	3.48	0.97	928	3.47	3.36	0.97	969
31	22	4.02	3.41	0.85	887	3.87	3.29	0.85	944	3.78	3.21	0.85	969	3.62	3.08	0.85	1010
31	24	4.22	3.08	0.73	928	4.06	2.97	0.73	979	3.97	2.90	0.73	1010	3.84	2.81	0.73	1061
31	26	4.35	2.65	0.61	979	4.22	2.57	0.61	1030	4.16	2.54	0.61	1061	4.03	2.46	0.61	1091
32	18	3.70	3.70	1.00	816	3.54	3.54	1.00	857	3.40	3.40	1.00	898	3.28	3.28	1.00	938
32	20	3.86	3.86	1.00	857	3.70	3.70	1.00	908	3.59	3.59	1.00	928	3.47	3.47	1.00	969
32	22	4.02	3.57	0.89	887	3.87	3.45	0.89	944	3.78	3.36	0.89	969	3.62	3.22	0.89	1010
32	24	4.22	3.25	0.77	928	4.06	3.13	0.77	979	3.97	3.06	0.77	1010	3.84	2.96	0.77	1061
32	26	4.35	2.83	0.65	979	4.22	2.74	0.65	1030	4.16	2.70	0.65	1061	4.03	2.62	0.65	1091

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE DATA COOL operation at Rated frequency

MSZ-DM35VA: MUZ-DM35VA

CAPACITY: 3.15 kW SHF: 0.87 INPUT: 1020 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)											
		35				40				46			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	3.09	2.13	0.69	1000	2.84	1.96	0.69	1061	2.61	1.80	0.69	1102
21	20	3.24	1.85	0.57	1040	3.02	1.72	0.57	1091	2.80	1.60	0.57	1153
22	18	3.09	2.25	0.73	1000	2.84	2.07	0.73	1061	2.61	1.91	0.73	1102
22	20	3.24	1.98	0.61	1040	3.02	1.84	0.61	1091	2.80	1.71	0.61	1153
22	22	3.43	1.68	0.49	1081	3.21	1.57	0.49	1142	2.99	1.47	0.49	1183
23	18	3.09	2.38	0.77	1000	2.84	2.18	0.77	1061	2.61	2.01	0.77	1102
23	20	3.24	2.11	0.65	1040	3.02	1.97	0.65	1091	2.80	1.82	0.65	1153
23	22	3.43	1.82	0.53	1081	3.21	1.70	0.53	1142	2.99	1.59	0.53	1183
24	18	3.09	2.50	0.81	1000	2.84	2.30	0.81	1061	2.61	2.12	0.81	1102
24	20	3.24	2.24	0.69	1040	3.02	2.09	0.69	1091	2.80	1.93	0.69	1153
24	22	3.43	1.96	0.57	1081	3.21	1.83	0.57	1142	2.99	1.71	0.57	1183
24	24	3.62	1.63	0.45	1122	3.40	1.53	0.45	1173	3.21	1.45	0.45	1224
25	18	3.09	2.62	0.85	1000	2.84	2.41	0.85	1061	2.61	2.22	0.85	1102
25	20	3.24	2.37	0.73	1040	3.02	2.21	0.73	1091	2.80	2.05	0.73	1153
25	22	3.43	2.09	0.61	1081	3.21	1.96	0.61	1142	2.99	1.83	0.61	1183
25	24	3.62	1.78	0.49	1122	3.40	1.67	0.49	1173	3.21	1.57	0.49	1224
26	18	3.09	2.75	0.89	1000	2.84	2.52	0.89	1061	2.61	2.33	0.89	1102
26	20	3.24	2.50	0.77	1040	3.02	2.33	0.77	1091	2.80	2.16	0.77	1153
26	22	3.43	2.23	0.65	1081	3.21	2.09	0.65	1142	2.99	1.95	0.65	1183
26	24	3.62	1.92	0.53	1122	3.40	1.80	0.53	1173	3.21	1.70	0.53	1224
26	26	3.81	1.56	0.41	1163	3.59	1.47	0.41	1214	3.37	1.38	0.41	1265
27	18	3.09	2.87	0.93	1000	2.84	2.64	0.93	1061	2.61	2.43	0.93	1102
27	20	3.24	2.63	0.81	1040	3.02	2.45	0.81	1091	2.80	2.27	0.81	1153
27	22	3.43	2.37	0.69	1081	3.21	2.22	0.69	1142	2.99	2.06	0.69	1183
27	24	3.62	2.06	0.57	1122	3.40	1.94	0.57	1173	3.21	1.83	0.57	1224
27	26	3.81	1.72	0.45	1163	3.59	1.62	0.45	1214	3.37	1.52	0.45	1265
28	18	3.09	2.99	0.97	1000	2.84	2.75	0.97	1061	2.61	2.54	0.97	1102
28	20	3.24	2.76	0.85	1040	3.02	2.57	0.85	1091	2.80	2.38	0.85	1153
28	22	3.43	2.51	0.73	1081	3.21	2.35	0.73	1142	2.99	2.18	0.73	1183
28	24	3.62	2.21	0.61	1122	3.40	2.08	0.61	1173	3.21	1.96	0.61	1224
28	26	3.81	1.87	0.49	1163	3.59	1.76	0.49	1214	3.37	1.65	0.49	1265
29	18	3.09	3.09	1.00	1000	2.84	2.84	1.00	1061	2.61	2.61	1.00	1102
29	20	3.24	2.89	0.89	1040	3.02	2.69	0.89	1091	2.80	2.50	0.89	1153
29	22	3.43	2.64	0.77	1081	3.21	2.47	0.77	1142	2.99	2.30	0.77	1183
29	24	3.62	2.35	0.65	1122	3.40	2.21	0.65	1173	3.21	2.09	0.65	1224
29	26	3.81	2.02	0.53	1163	3.59	1.90	0.53	1214	3.37	1.79	0.53	1265
30	18	3.09	3.09	1.00	1000	2.84	2.84	1.00	1061	2.61	2.61	1.00	1102
30	20	3.24	3.02	0.93	1040	3.02	2.81	0.93	1091	2.80	2.61	0.93	1153
30	22	3.43	2.78	0.81	1081	3.21	2.60	0.81	1142	2.99	2.42	0.81	1183
30	24	3.62	2.50	0.69	1122	3.40	2.35	0.69	1173	3.21	2.22	0.69	1224
30	26	3.81	2.17	0.57	1163	3.59	2.05	0.57	1214	3.37	1.92	0.57	1265
31	18	3.09	3.09	1.00	1000	2.84	2.84	1.00	1061	2.61	2.61	1.00	1102
31	20	3.24	3.15	0.97	1040	3.02	2.93	0.97	1091	2.80	2.72	0.97	1153
31	22	3.43	2.92	0.85	1081	3.21	2.73	0.85	1142	2.99	2.54	0.85	1183
31	24	3.62	2.64	0.73	1122	3.40	2.48	0.73	1173	3.21	2.35	0.73	1224
31	26	3.81	2.33	0.61	1163	3.59	2.19	0.61	1214	3.37	2.06	0.61	1265
32	18	3.09	3.09	1.00	1000	2.84	2.84	1.00	1061	2.61	2.61	1.00	1102
32	20	3.24	3.24	1.00	1040	3.02	3.02	1.00	1091	2.80	2.80	1.00	1153
32	22	3.43	3.06	0.89	1081	3.21	2.86	0.89	1142	2.99	2.66	0.89	1183
32	24	3.62	2.79	0.77	1122	3.40	2.62	0.77	1173	3.21	2.47	0.77	1224
32	26	3.81	2.48	0.65	1163	3.59	2.33	0.65	1214	3.37	2.19	0.65	1265

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE CURVES COOL operation at Rated frequency

MSZ-HJ25VA: MUZ-HJ25VA

CAPACITY: 2.5 kW SHF: 0.89 INPUT: 730 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)															
		21				25				27				30			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	2.94	2.09	0.71	584	2.81	2.00	0.71	613	2.70	1.92	0.71	642	2.60	1.85	0.71	672
21	20	3.06	1.81	0.59	613	2.94	1.73	0.59	650	2.85	1.68	0.59	664	2.75	1.62	0.59	694
22	18	2.94	2.20	0.75	584	2.81	2.11	0.75	613	2.70	2.03	0.75	642	2.60	1.95	0.75	672
22	20	3.06	1.93	0.63	613	2.94	1.85	0.63	650	2.85	1.80	0.63	664	2.75	1.73	0.63	694
22	22	3.19	1.63	0.51	635	3.08	1.57	0.51	675	3.00	1.53	0.51	694	2.88	1.47	0.51	723
23	18	2.94	2.32	0.79	584	2.81	2.22	0.79	613	2.70	2.13	0.79	642	2.60	2.05	0.79	672
23	20	3.06	2.05	0.67	613	2.94	1.97	0.67	650	2.85	1.91	0.67	664	2.75	1.84	0.67	694
23	22	3.19	1.75	0.55	635	3.08	1.69	0.55	675	3.00	1.65	0.55	694	2.88	1.58	0.55	723
24	18	2.94	2.44	0.83	584	2.81	2.33	0.83	613	2.70	2.24	0.83	642	2.60	2.16	0.83	672
24	20	3.06	2.17	0.71	613	2.94	2.09	0.71	650	2.85	2.02	0.71	664	2.75	1.95	0.71	694
24	22	3.19	1.88	0.59	635	3.08	1.81	0.59	675	3.00	1.77	0.59	694	2.88	1.70	0.59	723
24	24	3.35	1.57	0.47	664	3.23	1.52	0.47	701	3.15	1.48	0.47	723	3.05	1.43	0.47	759
25	18	2.94	2.56	0.87	584	2.81	2.45	0.87	613	2.70	2.35	0.87	642	2.60	2.26	0.87	672
25	20	3.06	2.30	0.75	613	2.94	2.20	0.75	650	2.85	2.14	0.75	664	2.75	2.06	0.75	694
25	22	3.19	2.01	0.63	635	3.08	1.94	0.63	675	3.00	1.89	0.63	694	2.88	1.81	0.63	723
25	24	3.35	1.71	0.51	664	3.23	1.64	0.51	701	3.15	1.61	0.51	723	3.05	1.56	0.51	759
26	18	2.94	2.67	0.91	584	2.81	2.56	0.91	613	2.70	2.46	0.91	642	2.60	2.37	0.91	672
26	20	3.06	2.42	0.79	613	2.94	2.32	0.79	650	2.85	2.25	0.79	664	2.75	2.17	0.79	694
26	22	3.19	2.14	0.67	635	3.08	2.06	0.67	675	3.00	2.01	0.67	694	2.88	1.93	0.67	723
26	24	3.35	1.84	0.55	664	3.23	1.77	0.55	701	3.15	1.73	0.55	723	3.05	1.68	0.55	759
26	26	3.45	1.48	0.43	701	3.35	1.44	0.43	737	3.30	1.42	0.43	759	3.20	1.38	0.43	781
27	18	2.94	2.79	0.95	584	2.81	2.67	0.95	613	2.70	2.57	0.95	642	2.60	2.47	0.95	672
27	20	3.06	2.54	0.83	613	2.94	2.44	0.83	650	2.85	2.37	0.83	664	2.75	2.28	0.83	694
27	22	3.19	2.26	0.71	635	3.08	2.18	0.71	675	3.00	2.13	0.71	694	2.88	2.04	0.71	723
27	24	3.35	1.98	0.59	664	3.23	1.90	0.59	701	3.15	1.86	0.59	723	3.05	1.80	0.59	759
27	26	3.45	1.62	0.47	701	3.35	1.57	0.47	737	3.30	1.55	0.47	759	3.20	1.50	0.47	781
28	18	2.94	2.91	0.99	584	2.81	2.78	0.99	613	2.70	2.67	0.99	642	2.60	2.57	0.99	672
28	20	3.06	2.66	0.87	613	2.94	2.56	0.87	650	2.85	2.48	0.87	664	2.75	2.39	0.87	694
28	22	3.19	2.39	0.75	635	3.08	2.31	0.75	675	3.00	2.25	0.75	694	2.88	2.16	0.75	723
28	24	3.35	2.11	0.63	664	3.23	2.03	0.63	701	3.15	1.98	0.63	723	3.05	1.92	0.63	759
28	26	3.45	1.76	0.51	701	3.35	1.71	0.51	737	3.30	1.68	0.51	759	3.20	1.63	0.51	781
29	18	2.94	2.94	1.00	584	2.81	2.81	1.00	613	2.70	2.70	1.00	642	2.60	2.60	1.00	672
29	20	3.06	2.79	0.91	613	2.94	2.67	0.91	650	2.85	2.59	0.91	664	2.75	2.50	0.91	694
29	22	3.19	2.52	0.79	635	3.08	2.43	0.79	675	3.00	2.37	0.79	694	2.88	2.27	0.79	723
29	24	3.35	2.24	0.67	664	3.23	2.16	0.67	701	3.15	2.11	0.67	723	3.05	2.04	0.67	759
29	26	3.45	1.90	0.55	701	3.35	1.84	0.55	737	3.30	1.82	0.55	759	3.20	1.76	0.55	781
30	18	2.94	2.94	1.00	584	2.81	2.81	1.00	613	2.70	2.70	1.00	642	2.60	2.60	1.00	672
30	20	3.06	2.91	0.95	613	2.94	2.79	0.95	650	2.85	2.71	0.95	664	2.75	2.61	0.95	694
30	22	3.19	2.65	0.83	635	3.08	2.55	0.83	675	3.00	2.49	0.83	694	2.88	2.39	0.83	723
30	24	3.35	2.38	0.71	664	3.23	2.29	0.71	701	3.15	2.24	0.71	723	3.05	2.17	0.71	759
30	26	3.45	2.04	0.59	701	3.35	1.98	0.59	737	3.30	1.95	0.59	759	3.20	1.89	0.59	781
31	18	2.94	2.94	1.00	584	2.81	2.81	1.00	613	2.70	2.70	1.00	642	2.60	2.60	1.00	672
31	20	3.06	3.03	0.99	613	2.94	2.91	0.99	650	2.85	2.82	0.99	664	2.75	2.72	0.99	694
31	22	3.19	2.77	0.87	635	3.08	2.68	0.87	675	3.00	2.61	0.87	694	2.88	2.50	0.87	723
31	24	3.35	2.51	0.75	664	3.23	2.42	0.75	701	3.15	2.36	0.75	723	3.05	2.29	0.75	759
31	26	3.45	2.17	0.63	701	3.35	2.11	0.63	737	3.30	2.08	0.63	759	3.20	2.02	0.63	781
32	18	2.94	2.94	1.00	584	2.81	2.81	1.00	613	2.70	2.70	1.00	642	2.60	2.60	1.00	672
32	20	3.06	3.06	1.00	613	2.94	2.94	1.00	650	2.85	2.85	1.00	664	2.75	2.75	1.00	694
32	22	3.19	2.90	0.91	635	3.08	2.80	0.91	675	3.00	2.73	0.91	694	2.88	2.62	0.91	723
32	24	3.35	2.65	0.79	664	3.23	2.55	0.79	701	3.15	2.49	0.79	723	3.05	2.41	0.79	759
32	26	3.45	2.31	0.67	701	3.35	2.24	0.67	737	3.30	2.21	0.67	759	3.20	2.14	0.67	781

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE CURVES COOL operation at Rated frequency

MSZ-HJ25VA: MUZ-HJ25VA

CAPACITY: 2.5 kW SHF: 0.89 INPUT: 730 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)											
		35				40				46			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	2.45	1.74	0.71	715	2.25	1.60	0.71	759	2.08	1.47	0.71	788
21	20	2.58	1.52	0.59	745	2.40	1.42	0.59	781	2.23	1.31	0.59	825
22	18	2.45	1.84	0.75	715	2.25	1.69	0.75	759	2.08	1.56	0.75	788
22	20	2.58	1.62	0.63	745	2.40	1.51	0.63	781	2.23	1.40	0.63	825
22	22	2.73	1.39	0.51	774	2.55	1.30	0.51	818	2.38	1.21	0.51	847
23	18	2.45	1.94	0.79	715	2.25	1.78	0.79	759	2.08	1.64	0.79	788
23	20	2.58	1.73	0.67	745	2.40	1.61	0.67	781	2.23	1.49	0.67	825
23	22	2.73	1.50	0.55	774	2.55	1.40	0.55	818	2.38	1.31	0.55	847
24	18	2.45	2.03	0.83	715	2.25	1.87	0.83	759	2.08	1.72	0.83	788
24	20	2.58	1.83	0.71	745	2.40	1.70	0.71	781	2.23	1.58	0.71	825
24	22	2.73	1.61	0.59	774	2.55	1.50	0.59	818	2.38	1.40	0.59	847
24	24	2.88	1.35	0.47	803	2.70	1.27	0.47	839	2.55	1.20	0.47	876
25	18	2.45	2.13	0.87	715	2.25	1.96	0.87	759	2.08	1.81	0.87	788
25	20	2.58	1.93	0.75	745	2.40	1.80	0.75	781	2.23	1.67	0.75	825
25	22	2.73	1.72	0.63	774	2.55	1.61	0.63	818	2.38	1.50	0.63	847
25	24	2.88	1.47	0.51	803	2.70	1.38	0.51	839	2.55	1.30	0.51	876
26	18	2.45	2.23	0.91	715	2.25	2.05	0.91	759	2.08	1.89	0.91	788
26	20	2.58	2.03	0.79	745	2.40	1.90	0.79	781	2.23	1.76	0.79	825
26	22	2.73	1.83	0.67	774	2.55	1.71	0.67	818	2.38	1.59	0.67	847
26	24	2.88	1.58	0.55	803	2.70	1.49	0.55	839	2.55	1.40	0.55	876
26	26	3.03	1.30	0.43	832	2.85	1.23	0.43	869	2.68	1.15	0.43	905
27	18	2.45	2.33	0.95	715	2.25	2.14	0.95	759	2.08	1.97	0.95	788
27	20	2.58	2.14	0.83	745	2.40	1.99	0.83	781	2.23	1.85	0.83	825
27	22	2.73	1.93	0.71	774	2.55	1.81	0.71	818	2.38	1.69	0.71	847
27	24	2.88	1.70	0.59	803	2.70	1.59	0.59	839	2.55	1.50	0.59	876
27	26	3.03	1.42	0.47	832	2.85	1.34	0.47	869	2.68	1.26	0.47	905
28	18	2.45	2.43	0.99	715	2.25	2.23	0.99	759	2.08	2.05	0.99	788
28	20	2.58	2.24	0.87	745	2.40	2.09	0.87	781	2.23	1.94	0.87	825
28	22	2.73	2.04	0.75	774	2.55	1.91	0.75	818	2.38	1.78	0.75	847
28	24	2.88	1.81	0.63	803	2.70	1.70	0.63	839	2.55	1.61	0.63	876
28	26	3.03	1.54	0.51	832	2.85	1.45	0.51	869	2.68	1.36	0.51	905
29	18	2.45	2.45	1.00	715	2.25	2.25	1.00	759	2.08	2.08	1.00	788
29	20	2.58	2.34	0.91	745	2.40	2.18	0.91	781	2.23	2.02	0.91	825
29	22	2.73	2.15	0.79	774	2.55	2.01	0.79	818	2.38	1.88	0.79	847
29	24	2.88	1.93	0.67	803	2.70	1.81	0.67	839	2.55	1.71	0.67	876
29	26	3.03	1.66	0.55	832	2.85	1.57	0.55	869	2.68	1.47	0.55	905
30	18	2.45	2.45	1.00	715	2.25	2.25	1.00	759	2.08	2.08	1.00	788
30	20	2.58	2.45	0.95	745	2.40	2.28	0.95	781	2.23	2.11	0.95	825
30	22	2.73	2.26	0.83	774	2.55	2.12	0.83	818	2.38	1.97	0.83	847
30	24	2.88	2.04	0.71	803	2.70	1.92	0.71	839	2.55	1.81	0.71	876
30	26	3.03	1.78	0.59	832	2.85	1.68	0.59	869	2.68	1.58	0.59	905
31	18	2.45	2.45	1.00	715	2.25	2.25	1.00	759	2.08	2.08	1.00	788
31	20	2.58	2.55	0.99	745	2.40	2.38	0.99	781	2.23	2.20	0.99	825
31	22	2.73	2.37	0.87	774	2.55	2.22	0.87	818	2.38	2.07	0.87	847
31	24	2.88	2.16	0.75	803	2.70	2.03	0.75	839	2.55	1.91	0.75	876
31	26	3.03	1.91	0.63	832	2.85	1.80	0.63	869	2.68	1.69	0.63	905
32	18	2.45	2.45	1.00	715	2.25	2.25	1.00	759	2.08	2.08	1.00	788
32	20	2.58	2.58	1.00	745	2.40	2.40	1.00	781	2.23	2.23	1.00	825
32	22	2.73	2.48	0.91	774	2.55	2.32	0.91	818	2.38	2.16	0.91	847
32	24	2.88	2.27	0.79	803	2.70	2.13	0.79	839	2.55	2.01	0.79	876
32	26	3.03	2.03	0.67	832	2.85	1.91	0.67	869	2.68	1.79	0.67	905

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE CURVES COOL operation at Rated frequency

MSZ-HJ35VA: MUZ-HJ35VA

CAPACITY: 3.15 kW SHF: 0.87 INPUT: 1040 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)															
		21				25				27				30			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	3.70	2.55	0.69	832	3.54	2.45	0.69	874	3.40	2.35	0.69	915	3.28	2.26	0.69	957
21	20	3.86	2.20	0.57	874	3.70	2.11	0.57	926	3.59	2.05	0.57	946	3.47	1.98	0.57	988
22	18	3.70	2.70	0.73	832	3.54	2.59	0.73	874	3.40	2.48	0.73	915	3.28	2.39	0.73	957
22	20	3.86	2.35	0.61	874	3.70	2.26	0.61	926	3.59	2.19	0.61	946	3.47	2.11	0.61	988
22	22	4.02	1.97	0.49	905	3.87	1.90	0.49	962	3.78	1.85	0.49	988	3.62	1.78	0.49	1030
23	18	3.70	2.85	0.77	832	3.54	2.73	0.77	874	3.40	2.62	0.77	915	3.28	2.52	0.77	957
23	20	3.86	2.51	0.65	874	3.70	2.41	0.65	926	3.59	2.33	0.65	946	3.47	2.25	0.65	988
23	22	4.02	2.13	0.53	905	3.87	2.05	0.53	962	3.78	2.00	0.53	988	3.62	1.92	0.53	1030
24	18	3.70	3.00	0.81	832	3.54	2.87	0.81	874	3.40	2.76	0.81	915	3.28	2.65	0.81	957
24	20	3.86	2.66	0.69	874	3.70	2.55	0.69	926	3.59	2.48	0.69	946	3.47	2.39	0.69	988
24	22	4.02	2.29	0.57	905	3.87	2.21	0.57	962	3.78	2.15	0.57	988	3.62	2.06	0.57	1030
24	24	4.22	1.90	0.45	946	4.06	1.83	0.45	998	3.97	1.79	0.45	1030	3.84	1.73	0.45	1082
25	18	3.70	3.15	0.85	832	3.54	3.01	0.85	874	3.40	2.89	0.85	915	3.28	2.78	0.85	957
25	20	3.86	2.82	0.73	874	3.70	2.70	0.73	926	3.59	2.62	0.73	946	3.47	2.53	0.73	988
25	22	4.02	2.45	0.61	905	3.87	2.36	0.61	962	3.78	2.31	0.61	988	3.62	2.21	0.61	1030
25	24	4.22	2.07	0.49	946	4.06	1.99	0.49	998	3.97	1.94	0.49	1030	3.84	1.88	0.49	1082
26	18	3.70	3.29	0.89	832	3.54	3.15	0.89	874	3.40	3.03	0.89	915	3.28	2.92	0.89	957
26	20	3.86	2.97	0.77	874	3.70	2.85	0.77	926	3.59	2.77	0.77	946	3.47	2.67	0.77	988
26	22	4.02	2.61	0.65	905	3.87	2.52	0.65	962	3.78	2.46	0.65	988	3.62	2.35	0.65	1030
26	24	4.22	2.24	0.53	946	4.06	2.15	0.53	998	3.97	2.10	0.53	1030	3.84	2.04	0.53	1082
26	26	4.35	1.78	0.41	998	4.22	1.73	0.41	1050	4.16	1.70	0.41	1082	4.03	1.65	0.41	1113
27	18	3.70	3.44	0.93	832	3.54	3.30	0.93	874	3.40	3.16	0.93	915	3.28	3.05	0.93	957
27	20	3.86	3.13	0.81	874	3.70	3.00	0.81	926	3.59	2.91	0.81	946	3.47	2.81	0.81	988
27	22	4.02	2.77	0.69	905	3.87	2.67	0.69	962	3.78	2.61	0.69	988	3.62	2.50	0.69	1030
27	24	4.22	2.41	0.57	946	4.06	2.32	0.57	998	3.97	2.26	0.57	1030	3.84	2.19	0.57	1082
27	26	4.35	1.96	0.45	998	4.22	1.90	0.45	1050	4.16	1.87	0.45	1082	4.03	1.81	0.45	1113
28	18	3.70	3.59	0.97	832	3.54	3.44	0.97	874	3.40	3.30	0.97	915	3.28	3.18	0.97	957
28	20	3.86	3.28	0.85	874	3.70	3.15	0.85	926	3.59	3.05	0.85	946	3.47	2.95	0.85	988
28	22	4.02	2.93	0.73	905	3.87	2.83	0.73	962	3.78	2.76	0.73	988	3.62	2.64	0.73	1030
28	24	4.22	2.57	0.61	946	4.06	2.48	0.61	998	3.97	2.42	0.61	1030	3.84	2.34	0.61	1082
28	26	4.35	2.13	0.49	998	4.22	2.07	0.49	1050	4.16	2.04	0.49	1082	4.03	1.98	0.49	1113
29	18	3.70	3.70	1.00	832	3.54	3.54	1.00	874	3.40	3.40	1.00	915	3.28	3.28	1.00	957
29	20	3.86	3.43	0.89	874	3.70	3.29	0.89	926	3.59	3.20	0.89	946	3.47	3.08	0.89	988
29	22	4.02	3.09	0.77	905	3.87	2.98	0.77	962	3.78	2.91	0.77	988	3.62	2.79	0.77	1030
29	24	4.22	2.74	0.65	946	4.06	2.64	0.65	998	3.97	2.58	0.65	1030	3.84	2.50	0.65	1082
29	26	4.35	2.30	0.53	998	4.22	2.24	0.53	1050	4.16	2.20	0.53	1082	4.03	2.14	0.53	1113
30	18	3.70	3.70	1.00	832	3.54	3.54	1.00	874	3.40	3.40	1.00	915	3.28	3.28	1.00	957
30	20	3.86	3.59	0.93	874	3.70	3.44	0.93	926	3.59	3.34	0.93	946	3.47	3.22	0.93	988
30	22	4.02	3.25	0.81	905	3.87	3.14	0.81	962	3.78	3.06	0.81	988	3.62	2.93	0.81	1030
30	24	4.22	2.91	0.69	946	4.06	2.80	0.69	998	3.97	2.74	0.69	1030	3.84	2.65	0.69	1082
30	26	4.35	2.48	0.57	998	4.22	2.41	0.57	1050	4.16	2.37	0.57	1082	4.03	2.30	0.57	1113
31	18	3.70	3.70	1.00	832	3.54	3.54	1.00	874	3.40	3.40	1.00	915	3.28	3.28	1.00	957
31	20	3.86	3.74	0.97	874	3.70	3.59	0.97	926	3.59	3.48	0.97	946	3.47	3.36	0.97	988
31	22	4.02	3.41	0.85	905	3.87	3.29	0.85	962	3.78	3.21	0.85	988	3.62	3.08	0.85	1030
31	24	4.22	3.08	0.73	946	4.06	2.97	0.73	998	3.97	2.90	0.73	1030	3.84	2.81	0.73	1082
31	26	4.35	2.65	0.61	998	4.22	2.57	0.61	1050	4.16	2.54	0.61	1082	4.03	2.46	0.61	1113
32	18	3.70	3.70	1.00	832	3.54	3.54	1.00	874	3.40	3.40	1.00	915	3.28	3.28	1.00	957
32	20	3.86	3.86	1.00	874	3.70	3.70	1.00	926	3.59	3.59	1.00	946	3.47	3.47	1.00	988
32	22	4.02	3.57	0.89	905	3.87	3.45	0.89	962	3.78	3.36	0.89	988	3.62	3.22	0.89	1030
32	24	4.22	3.25	0.77	946	4.06	3.13	0.77	998	3.97	3.06	0.77	1030	3.84	2.96	0.77	1082
32	26	4.35	2.83	0.65	998	4.22	2.74	0.65	1050	4.16	2.70	0.65	1082	4.03	2.62	0.65	1113

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE CURVES COOL operation at Rated frequency

MSZ-HJ35VA: MUZ-HJ35VA

CAPACITY: 3.15 kW SHF: 0.87 INPUT: 1040 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)											
		35				40				46			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	3.09	2.13	0.69	1019	2.84	1.96	0.69	1082	2.61	1.80	0.69	1123
21	20	3.24	1.85	0.57	1061	3.02	1.72	0.57	1113	2.80	1.60	0.57	1175
22	18	3.09	2.25	0.73	1019	2.84	2.07	0.73	1082	2.61	1.91	0.73	1123
22	20	3.24	1.98	0.61	1061	3.02	1.84	0.61	1113	2.80	1.71	0.61	1175
22	22	3.43	1.68	0.49	1102	3.21	1.57	0.49	1165	2.99	1.47	0.49	1206
23	18	3.09	2.38	0.77	1019	2.84	2.18	0.77	1082	2.61	2.01	0.77	1123
23	20	3.24	2.11	0.65	1061	3.02	1.97	0.65	1113	2.80	1.82	0.65	1175
23	22	3.43	1.82	0.53	1102	3.21	1.70	0.53	1165	2.99	1.59	0.53	1206
24	18	3.09	2.50	0.81	1019	2.84	2.30	0.81	1082	2.61	2.12	0.81	1123
24	20	3.24	2.24	0.69	1061	3.02	2.09	0.69	1113	2.80	1.93	0.69	1175
24	22	3.43	1.96	0.57	1102	3.21	1.83	0.57	1165	2.99	1.71	0.57	1206
24	24	3.62	1.63	0.45	1144	3.40	1.53	0.45	1196	3.21	1.45	0.45	1248
25	18	3.09	2.62	0.85	1019	2.84	2.41	0.85	1082	2.61	2.22	0.85	1123
25	20	3.24	2.37	0.73	1061	3.02	2.21	0.73	1113	2.80	2.05	0.73	1175
25	22	3.43	2.09	0.61	1102	3.21	1.96	0.61	1165	2.99	1.83	0.61	1206
25	24	3.62	1.78	0.49	1144	3.40	1.67	0.49	1196	3.21	1.57	0.49	1248
26	18	3.09	2.75	0.89	1019	2.84	2.52	0.89	1082	2.61	2.33	0.89	1123
26	20	3.24	2.50	0.77	1061	3.02	2.33	0.77	1113	2.80	2.16	0.77	1175
26	22	3.43	2.23	0.65	1102	3.21	2.09	0.65	1165	2.99	1.95	0.65	1206
26	24	3.62	1.92	0.53	1144	3.40	1.80	0.53	1196	3.21	1.70	0.53	1248
26	26	3.81	1.56	0.41	1186	3.59	1.47	0.41	1238	3.37	1.38	0.41	1290
27	18	3.09	2.87	0.93	1019	2.84	2.64	0.93	1082	2.61	2.43	0.93	1123
27	20	3.24	2.63	0.81	1061	3.02	2.45	0.81	1113	2.80	2.27	0.81	1175
27	22	3.43	2.37	0.69	1102	3.21	2.22	0.69	1165	2.99	2.06	0.69	1206
27	24	3.62	2.06	0.57	1144	3.40	1.94	0.57	1196	3.21	1.83	0.57	1248
27	26	3.81	1.72	0.45	1186	3.59	1.62	0.45	1238	3.37	1.52	0.45	1290
28	18	3.09	2.99	0.97	1019	2.84	2.75	0.97	1082	2.61	2.54	0.97	1123
28	20	3.24	2.76	0.85	1061	3.02	2.57	0.85	1113	2.80	2.38	0.85	1175
28	22	3.43	2.51	0.73	1102	3.21	2.35	0.73	1165	2.99	2.18	0.73	1206
28	24	3.62	2.21	0.61	1144	3.40	2.08	0.61	1196	3.21	1.96	0.61	1248
28	26	3.81	1.87	0.49	1186	3.59	1.76	0.49	1238	3.37	1.65	0.49	1290
29	18	3.09	3.09	1.00	1019	2.84	2.84	1.00	1082	2.61	2.61	1.00	1123
29	20	3.24	2.89	0.89	1061	3.02	2.69	0.89	1113	2.80	2.50	0.89	1175
29	22	3.43	2.64	0.77	1102	3.21	2.47	0.77	1165	2.99	2.30	0.77	1206
29	24	3.62	2.35	0.65	1144	3.40	2.21	0.65	1196	3.21	2.09	0.65	1248
29	26	3.81	2.02	0.53	1186	3.59	1.90	0.53	1238	3.37	1.79	0.53	1290
30	18	3.09	3.09	1.00	1019	2.84	2.84	1.00	1082	2.61	2.61	1.00	1123
30	20	3.24	3.02	0.93	1061	3.02	2.81	0.93	1113	2.80	2.61	0.93	1175
30	22	3.43	2.78	0.81	1102	3.21	2.60	0.81	1165	2.99	2.42	0.81	1206
30	24	3.62	2.50	0.69	1144	3.40	2.35	0.69	1196	3.21	2.22	0.69	1248
30	26	3.81	2.17	0.57	1186	3.59	2.05	0.57	1238	3.37	1.92	0.57	1290
31	18	3.09	3.09	1.00	1019	2.84	2.84	1.00	1082	2.61	2.61	1.00	1123
31	20	3.24	3.15	0.97	1061	3.02	2.93	0.97	1113	2.80	2.72	0.97	1175
31	22	3.43	2.92	0.85	1102	3.21	2.73	0.85	1165	2.99	2.54	0.85	1206
31	24	3.62	2.64	0.73	1144	3.40	2.48	0.73	1196	3.21	2.35	0.73	1248
31	26	3.81	2.33	0.61	1186	3.59	2.19	0.61	1238	3.37	2.06	0.61	1290
32	18	3.09	3.09	1.00	1019	2.84	2.84	1.00	1082	2.61	2.61	1.00	1123
32	20	3.24	3.24	1.00	1061	3.02	3.02	1.00	1113	2.80	2.80	1.00	1175
32	22	3.43	3.06	0.89	1102	3.21	2.86	0.89	1165	2.99	2.66	0.89	1206
32	24	3.62	2.79	0.77	1144	3.40	2.62	0.77	1196	3.21	2.47	0.77	1248
32	26	3.81	2.48	0.65	1186	3.59	2.33	0.65	1238	3.37	2.19	0.65	1290

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE CURVES COOL operation at Rated frequency

MSZ-HJ50VA: MUZ-HJ50VA

CAPACITY: 5.0 kW SHF: 0.70 INPUT: 2050 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)															
		21				25				27				30			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	5.88	3.06	0.52	1640	5.63	2.93	0.52	1722	5.40	2.81	0.52	1804	5.20	2.70	0.52	1886
21	20	6.13	2.45	0.40	1722	5.88	2.35	0.40	1825	5.70	2.28	0.40	1866	5.50	2.20	0.40	1948
22	18	5.88	3.29	0.56	1640	5.63	3.15	0.56	1722	5.40	3.02	0.56	1804	5.20	2.91	0.56	1886
22	20	6.13	2.70	0.44	1722	5.88	2.59	0.44	1825	5.70	2.51	0.44	1866	5.50	2.42	0.44	1948
22	22	6.38	2.04	0.32	1784	6.15	1.97	0.32	1896	6.00	1.92	0.32	1948	5.75	1.84	0.32	2030
23	18	5.88	3.53	0.60	1640	5.63	3.38	0.60	1722	5.40	3.24	0.60	1804	5.20	3.12	0.60	1886
23	20	6.13	2.94	0.48	1722	5.88	2.82	0.48	1825	5.70	2.74	0.48	1866	5.50	2.64	0.48	1948
23	22	6.38	2.30	0.36	1784	6.15	2.21	0.36	1896	6.00	2.16	0.36	1948	5.75	2.07	0.36	2030
24	18	5.88	3.76	0.64	1640	5.63	3.60	0.64	1722	5.40	3.46	0.64	1804	5.20	3.33	0.64	1886
24	20	6.13	3.19	0.52	1722	5.88	3.06	0.52	1825	5.70	2.96	0.52	1866	5.50	2.86	0.52	1948
24	22	6.38	2.55	0.40	1784	6.15	2.46	0.40	1896	6.00	2.40	0.40	1948	5.75	2.30	0.40	2030
24	24	6.70	1.88	0.28	1866	6.45	1.81	0.28	1968	6.30	1.76	0.28	2030	6.10	1.71	0.28	2132
25	18	5.88	4.00	0.68	1640	5.63	3.83	0.68	1722	5.40	3.67	0.68	1804	5.20	3.54	0.68	1886
25	20	6.13	3.43	0.56	1722	5.88	3.29	0.56	1825	5.70	3.19	0.56	1866	5.50	3.08	0.56	1948
25	22	6.38	2.81	0.44	1784	6.15	2.71	0.44	1896	6.00	2.64	0.44	1948	5.75	2.53	0.44	2030
25	24	6.70	2.14	0.32	1866	6.45	2.06	0.32	1968	6.30	2.02	0.32	2030	6.10	1.95	0.32	2132
26	18	5.88	4.23	0.72	1640	5.63	4.05	0.72	1722	5.40	3.89	0.72	1804	5.20	3.74	0.72	1886
26	20	6.13	3.68	0.60	1722	5.88	3.53	0.60	1825	5.70	3.42	0.60	1866	5.50	3.30	0.60	1948
26	22	6.38	3.06	0.48	1784	6.15	2.95	0.48	1896	6.00	2.88	0.48	1948	5.75	2.76	0.48	2030
26	24	6.70	2.41	0.36	1866	6.45	2.32	0.36	1968	6.30	2.27	0.36	2030	6.10	2.20	0.36	2132
26	26	6.90	1.66	0.24	1968	6.70	1.61	0.24	2071	6.60	1.58	0.24	2132	6.40	1.54	0.24	2194
27	18	5.88	4.47	0.76	1640	5.63	4.28	0.76	1722	5.40	4.10	0.76	1804	5.20	3.95	0.76	1886
27	20	6.13	3.92	0.64	1722	5.88	3.76	0.64	1825	5.70	3.65	0.64	1866	5.50	3.52	0.64	1948
27	22	6.38	3.32	0.52	1784	6.15	3.20	0.52	1896	6.00	3.12	0.52	1948	5.75	2.99	0.52	2030
27	24	6.70	2.68	0.40	1866	6.45	2.58	0.40	1968	6.30	2.52	0.40	2030	6.10	2.44	0.40	2132
27	26	6.90	1.93	0.28	1968	6.70	1.88	0.28	2071	6.60	1.85	0.28	2132	6.40	1.79	0.28	2194
28	18	5.88	4.70	0.80	1640	5.63	4.50	0.80	1722	5.40	4.32	0.80	1804	5.20	4.16	0.80	1886
28	20	6.13	4.17	0.68	1722	5.88	4.00	0.68	1825	5.70	3.88	0.68	1866	5.50	3.74	0.68	1948
28	22	6.38	3.57	0.56	1784	6.15	3.44	0.56	1896	6.00	3.36	0.56	1948	5.75	3.22	0.56	2030
28	24	6.70	2.95	0.44	1866	6.45	2.84	0.44	1968	6.30	2.77	0.44	2030	6.10	2.68	0.44	2132
28	26	6.90	2.21	0.32	1968	6.70	2.14	0.32	2071	6.60	2.11	0.32	2132	6.40	2.05	0.32	2194
29	18	5.88	4.94	0.84	1640	5.63	4.73	0.84	1722	5.40	4.54	0.84	1804	5.20	4.37	0.84	1886
29	20	6.13	4.41	0.72	1722	5.88	4.23	0.72	1825	5.70	4.10	0.72	1866	5.50	3.96	0.72	1948
29	22	6.38	3.83	0.60	1784	6.15	3.69	0.60	1896	6.00	3.60	0.60	1948	5.75	3.45	0.60	2030
29	24	6.70	3.22	0.48	1866	6.45	3.10	0.48	1968	6.30	3.02	0.48	2030	6.10	2.93	0.48	2132
29	26	6.90	2.48	0.36	1968	6.70	2.41	0.36	2071	6.60	2.38	0.36	2132	6.40	2.30	0.36	2194
30	18	5.88	5.17	0.88	1640	5.63	4.95	0.88	1722	5.40	4.75	0.88	1804	5.20	4.58	0.88	1886
30	20	6.13	4.66	0.76	1722	5.88	4.47	0.76	1825	5.70	4.33	0.76	1866	5.50	4.18	0.76	1948
30	22	6.38	4.08	0.64	1784	6.15	3.94	0.64	1896	6.00	3.84	0.64	1948	5.75	3.68	0.64	2030
30	24	6.70	3.48	0.52	1866	6.45	3.35	0.52	1968	6.30	3.28	0.52	2030	6.10	3.17	0.52	2132
30	26	6.90	2.76	0.40	1968	6.70	2.68	0.40	2071	6.60	2.64	0.40	2132	6.40	2.56	0.40	2194
31	18	5.88	5.41	0.92	1640	5.63	5.18	0.92	1722	5.40	4.97	0.92	1804	5.20	4.78	0.92	1886
31	20	6.13	4.90	0.80	1722	5.88	4.70	0.80	1825	5.70	4.56	0.80	1866	5.50	4.40	0.80	1948
31	22	6.38	4.34	0.68	1784	6.15	4.18	0.68	1896	6.00	4.08	0.68	1948	5.75	3.91	0.68	2030
31	24	6.70	3.75	0.56	1866	6.45	3.61	0.56	1968	6.30	3.53	0.56	2030	6.10	3.42	0.56	2132
31	26	6.90	3.04	0.44	1968	6.70	2.95	0.44	2071	6.60	2.90	0.44	2132	6.40	2.82	0.44	2194
32	18	5.88	5.64	0.96	1640	5.63	5.40	0.96	1722	5.40	5.18	0.96	1804	5.20	4.99	0.96	1886
32	20	6.13	5.15	0.84	1722	5.88	4.94	0.84	1825	5.70	4.79	0.84	1866	5.50	4.62	0.84	1948
32	22	6.38	4.59	0.72	1784	6.15	4.43	0.72	1896	6.00	4.32	0.72	1948	5.75	4.14	0.72	2030
32	24	6.70	4.02	0.60	1866	6.45	3.87	0.60	1968	6.30	3.78	0.60	2030	6.10	3.66	0.60	2132
32	26	6.90	3.31	0.48	1968	6.70	3.22	0.48	2071	6.60	3.17	0.48	2132	6.40	3.07	0.48	2194

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE CURVES COOL operation at Rated frequency

MSZ-HJ50VA: MUZ-HJ50VA

CAPACITY: 5.0 kW SHF: 0.70 INPUT: 2050 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)											
		35				40				46			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	4.90	2.55	0.52	2009	4.50	2.34	0.52	2132	4.15	2.16	0.52	2214
21	20	5.15	2.06	0.40	2091	4.80	1.92	0.40	2194	4.45	1.78	0.40	2317
22	18	4.90	2.74	0.56	2009	4.50	2.52	0.56	2132	4.15	2.32	0.56	2214
22	20	5.15	2.27	0.44	2091	4.80	2.11	0.44	2194	4.45	1.96	0.44	2317
22	22	5.45	1.74	0.32	2173	5.10	1.63	0.32	2296	4.75	1.52	0.32	2378
23	18	4.90	2.94	0.60	2009	4.50	2.70	0.60	2132	4.15	2.49	0.60	2214
23	20	5.15	2.47	0.48	2091	4.80	2.30	0.48	2194	4.45	2.14	0.48	2317
23	22	5.45	1.96	0.36	2173	5.10	1.84	0.36	2296	4.75	1.71	0.36	2378
24	18	4.90	3.14	0.64	2009	4.50	2.88	0.64	2132	4.15	2.66	0.64	2214
24	20	5.15	2.68	0.52	2091	4.80	2.50	0.52	2194	4.45	2.31	0.52	2317
24	22	5.45	2.18	0.40	2173	5.10	2.04	0.40	2296	4.75	1.90	0.40	2378
24	24	5.75	1.61	0.28	2255	5.40	1.51	0.28	2358	5.10	1.43	0.28	2460
25	18	4.90	3.33	0.68	2009	4.50	3.06	0.68	2132	4.15	2.82	0.68	2214
25	20	5.15	2.88	0.56	2091	4.80	2.69	0.56	2194	4.45	2.49	0.56	2317
25	22	5.45	2.40	0.44	2173	5.10	2.24	0.44	2296	4.75	2.09	0.44	2378
25	24	5.75	1.84	0.32	2255	5.40	1.73	0.32	2358	5.10	1.63	0.32	2460
26	18	4.90	3.53	0.72	2009	4.50	3.24	0.72	2132	4.15	2.99	0.72	2214
26	20	5.15	3.09	0.60	2091	4.80	2.88	0.60	2194	4.45	2.67	0.60	2317
26	22	5.45	2.62	0.48	2173	5.10	2.45	0.48	2296	4.75	2.28	0.48	2378
26	24	5.75	2.07	0.36	2255	5.40	1.94	0.36	2358	5.10	1.84	0.36	2460
26	26	6.05	1.45	0.24	2337	5.70	1.37	0.24	2440	5.35	1.28	0.24	2542
27	18	4.90	3.72	0.76	2009	4.50	3.42	0.76	2132	4.15	3.15	0.76	2214
27	20	5.15	3.30	0.64	2091	4.80	3.07	0.64	2194	4.45	2.85	0.64	2317
27	22	5.45	2.83	0.52	2173	5.10	2.65	0.52	2296	4.75	2.47	0.52	2378
27	24	5.75	2.30	0.40	2255	5.40	2.16	0.40	2358	5.10	2.04	0.40	2460
27	26	6.05	1.69	0.28	2337	5.70	1.60	0.28	2440	5.35	1.50	0.28	2542
28	18	4.90	3.92	0.80	2009	4.50	3.60	0.80	2132	4.15	3.32	0.80	2214
28	20	5.15	3.50	0.68	2091	4.80	3.26	0.68	2194	4.45	3.03	0.68	2317
28	22	5.45	3.05	0.56	2173	5.10	2.86	0.56	2296	4.75	2.66	0.56	2378
28	24	5.75	2.53	0.44	2255	5.40	2.38	0.44	2358	5.10	2.24	0.44	2460
28	26	6.05	1.94	0.32	2337	5.70	1.82	0.32	2440	5.35	1.71	0.32	2542
29	18	4.90	4.12	0.84	2009	4.50	3.78	0.84	2132	4.15	3.49	0.84	2214
29	20	5.15	3.71	0.72	2091	4.80	3.46	0.72	2194	4.45	3.20	0.72	2317
29	22	5.45	3.27	0.60	2173	5.10	3.06	0.60	2296	4.75	2.85	0.60	2378
29	24	5.75	2.76	0.48	2255	5.40	2.59	0.48	2358	5.10	2.45	0.48	2460
29	26	6.05	2.18	0.36	2337	5.70	2.05	0.36	2440	5.35	1.93	0.36	2542
30	18	4.90	4.31	0.88	2009	4.50	3.96	0.88	2132	4.15	3.65	0.88	2214
30	20	5.15	3.91	0.76	2091	4.80	3.65	0.76	2194	4.45	3.38	0.76	2317
30	22	5.45	3.49	0.64	2173	5.10	3.26	0.64	2296	4.75	3.04	0.64	2378
30	24	5.75	2.99	0.52	2255	5.40	2.81	0.52	2358	5.10	2.65	0.52	2460
30	26	6.05	2.42	0.40	2337	5.70	2.28	0.40	2440	5.35	2.14	0.40	2542
31	18	4.90	4.51	0.92	2009	4.50	4.14	0.92	2132	4.15	3.82	0.92	2214
31	20	5.15	4.12	0.80	2091	4.80	3.84	0.80	2194	4.45	3.56	0.80	2317
31	22	5.45	3.71	0.68	2173	5.10	3.47	0.68	2296	4.75	3.23	0.68	2378
31	24	5.75	3.22	0.56	2255	5.40	3.02	0.56	2358	5.10	2.86	0.56	2460
31	26	6.05	2.66	0.44	2337	5.70	2.51	0.44	2440	5.35	2.35	0.44	2542
32	18	4.90	4.70	0.96	2009	4.50	4.32	0.96	2132	4.15	3.98	0.96	2214
32	20	5.15	4.33	0.84	2091	4.80	4.03	0.84	2194	4.45	3.74	0.84	2317
32	22	5.45	3.92	0.72	2173	5.10	3.67	0.72	2296	4.75	3.42	0.72	2378
32	24	5.75	3.45	0.60	2255	5.40	3.24	0.60	2358	5.10	3.06	0.60	2460
32	26	6.05	2.90	0.48	2337	5.70	2.74	0.48	2440	5.35	2.57	0.48	2542

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE CURVES COOL operation at Rated frequency

MSZ-HJ60VA: MUZ-HJ60VA

CAPACITY: 6.1 kW SHF: 0.82 INPUT: 1900 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)															
		21				25				27				30			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	7.17	4.59	0.64	1520	6.86	4.39	0.64	1596	6.59	4.22	0.64	1672	6.34	4.06	0.64	1748
21	20	7.47	3.89	0.52	1596	7.17	3.73	0.52	1691	6.95	3.62	0.52	1729	6.71	3.49	0.52	1805
22	18	7.17	4.87	0.68	1520	6.86	4.67	0.68	1596	6.59	4.48	0.68	1672	6.34	4.31	0.68	1748
22	20	7.47	4.18	0.56	1596	7.17	4.01	0.56	1691	6.95	3.89	0.56	1729	6.71	3.76	0.56	1805
22	22	7.78	3.42	0.44	1653	7.50	3.30	0.44	1758	7.32	3.22	0.44	1805	7.01	3.09	0.44	1881
23	18	7.17	5.16	0.72	1520	6.86	4.94	0.72	1596	6.59	4.74	0.72	1672	6.34	4.57	0.72	1748
23	20	7.47	4.48	0.60	1596	7.17	4.30	0.60	1691	6.95	4.17	0.60	1729	6.71	4.03	0.60	1805
23	22	7.78	3.73	0.48	1653	7.50	3.60	0.48	1758	7.32	3.51	0.48	1805	7.01	3.37	0.48	1881
24	18	7.17	5.45	0.76	1520	6.86	5.22	0.76	1596	6.59	5.01	0.76	1672	6.34	4.82	0.76	1748
24	20	7.47	4.78	0.64	1596	7.17	4.59	0.64	1691	6.95	4.45	0.64	1729	6.71	4.29	0.64	1805
24	22	7.78	4.04	0.52	1653	7.50	3.90	0.52	1758	7.32	3.81	0.52	1805	7.01	3.65	0.52	1881
24	24	8.17	3.27	0.40	1729	7.87	3.15	0.40	1824	7.69	3.07	0.40	1881	7.44	2.98	0.40	1976
25	18	7.17	5.73	0.80	1520	6.86	5.49	0.80	1596	6.59	5.27	0.80	1672	6.34	5.08	0.80	1748
25	20	7.47	5.08	0.68	1596	7.17	4.87	0.68	1691	6.95	4.73	0.68	1729	6.71	4.56	0.68	1805
25	22	7.78	4.36	0.56	1653	7.50	4.20	0.56	1758	7.32	4.10	0.56	1805	7.01	3.93	0.56	1881
25	24	8.17	3.60	0.44	1729	7.87	3.46	0.44	1824	7.69	3.38	0.44	1881	7.44	3.27	0.44	1976
26	18	7.17	6.02	0.84	1520	6.86	5.76	0.84	1596	6.59	5.53	0.84	1672	6.34	5.33	0.84	1748
26	20	7.47	5.38	0.72	1596	7.17	5.16	0.72	1691	6.95	5.01	0.72	1729	6.71	4.83	0.72	1805
26	22	7.78	4.67	0.60	1653	7.50	4.50	0.60	1758	7.32	4.39	0.60	1805	7.01	4.21	0.60	1881
26	24	8.17	3.92	0.48	1729	7.87	3.78	0.48	1824	7.69	3.69	0.48	1881	7.44	3.57	0.48	1976
26	26	8.42	3.03	0.36	1824	8.17	2.94	0.36	1919	8.05	2.90	0.36	1976	7.81	2.81	0.36	2033
27	18	7.17	6.31	0.88	1520	6.86	6.04	0.88	1596	6.59	5.80	0.88	1672	6.34	5.58	0.88	1748
27	20	7.47	5.68	0.76	1596	7.17	5.45	0.76	1691	6.95	5.29	0.76	1729	6.71	5.10	0.76	1805
27	22	7.78	4.98	0.64	1653	7.50	4.80	0.64	1758	7.32	4.68	0.64	1805	7.01	4.49	0.64	1881
27	24	8.17	4.25	0.52	1729	7.87	4.09	0.52	1824	7.69	4.00	0.52	1881	7.44	3.87	0.52	1976
27	26	8.42	3.37	0.40	1824	8.17	3.27	0.40	1919	8.05	3.22	0.40	1976	7.81	3.12	0.40	2033
28	18	7.17	6.59	0.92	1520	6.86	6.31	0.92	1596	6.59	6.06	0.92	1672	6.34	5.84	0.92	1748
28	20	7.47	5.98	0.80	1596	7.17	5.73	0.80	1691	6.95	5.56	0.80	1729	6.71	5.37	0.80	1805
28	22	7.78	5.29	0.68	1653	7.50	5.10	0.68	1758	7.32	4.98	0.68	1805	7.01	4.77	0.68	1881
28	24	8.17	4.58	0.56	1729	7.87	4.41	0.56	1824	7.69	4.30	0.56	1881	7.44	4.17	0.56	1976
28	26	8.42	3.70	0.44	1824	8.17	3.60	0.44	1919	8.05	3.54	0.44	1976	7.81	3.44	0.44	2033
29	18	7.17	6.88	0.96	1520	6.86	6.59	0.96	1596	6.59	6.32	0.96	1672	6.34	6.09	0.96	1748
29	20	7.47	6.28	0.84	1596	7.17	6.02	0.84	1691	6.95	5.84	0.84	1729	6.71	5.64	0.84	1805
29	22	7.78	5.60	0.72	1653	7.50	5.40	0.72	1758	7.32	5.27	0.72	1805	7.01	5.05	0.72	1881
29	24	8.17	4.90	0.60	1729	7.87	4.72	0.60	1824	7.69	4.61	0.60	1881	7.44	4.47	0.60	1976
29	26	8.42	4.04	0.48	1824	8.17	3.92	0.48	1919	8.05	3.86	0.48	1976	7.81	3.75	0.48	2033
30	18	7.17	7.17	1.00	1520	6.86	6.86	1.00	1596	6.59	6.59	1.00	1672	6.34	6.34	1.00	1748
30	20	7.47	6.58	0.88	1596	7.17	6.31	0.88	1691	6.95	6.12	0.88	1729	6.71	5.90	0.88	1805
30	22	7.78	5.91	0.76	1653	7.50	5.70	0.76	1758	7.32	5.56	0.76	1805	7.01	5.33	0.76	1881
30	24	8.17	5.23	0.64	1729	7.87	5.04	0.64	1824	7.69	4.92	0.64	1881	7.44	4.76	0.64	1976
30	26	8.42	4.38	0.52	1824	8.17	4.25	0.52	1919	8.05	4.19	0.52	1976	7.81	4.06	0.52	2033
31	18	7.17	7.17	1.00	1520	6.86	6.86	1.00	1596	6.59	6.59	1.00	1672	6.34	6.34	1.00	1748
31	20	7.47	6.87	0.92	1596	7.17	6.59	0.92	1691	6.95	6.40	0.92	1729	6.71	6.17	0.92	1805
31	22	7.78	6.22	0.80	1653	7.50	6.00	0.80	1758	7.32	5.86	0.80	1805	7.01	5.61	0.80	1881
31	24	8.17	5.56	0.68	1729	7.87	5.35	0.68	1824	7.69	5.23	0.68	1881	7.44	5.06	0.68	1976
31	26	8.42	4.71	0.56	1824	8.17	4.58	0.56	1919	8.05	4.51	0.56	1976	7.81	4.37	0.56	2033
32	18	7.17	7.17	1.00	1520	6.86	6.86	1.00	1596	6.59	6.59	1.00	1672	6.34	6.34	1.00	1748
32	20	7.47	7.17	0.96	1596	7.17	6.88	0.96	1691	6.95	6.68	0.96	1729	6.71	6.44	0.96	1805
32	22	7.78	6.53	0.84	1653	7.50	6.30	0.84	1758	7.32	6.15	0.84	1805	7.01	5.89	0.84	1881
32	24	8.17	5.89	0.72	1729	7.87	5.67	0.72	1824	7.69	5.53	0.72	1881	7.44	5.36	0.72	1976
32	26	8.42	5.05	0.60	1824	8.17	4.90	0.60	1919	8.05	4.83	0.60	1976	7.81	4.68	0.60	2033

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE CURVES COOL operation at Rated frequency

MSZ-HJ60VA: MUZ-HJ60VA

CAPACITY: 6.1 kW SHF: 0.82 INPUT: 1900 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)											
		35				40				46			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	5.98	3.83	0.64	1862	5.49	3.51	0.64	1976	5.06	3.24	0.64	2052
21	20	6.28	3.27	0.52	1938	5.86	3.05	0.52	2033	5.43	2.82	0.52	2147
22	18	5.98	4.07	0.68	1862	5.49	3.73	0.68	1976	5.06	3.44	0.68	2052
22	20	6.28	3.52	0.56	1938	5.86	3.28	0.56	2033	5.43	3.04	0.56	2147
22	22	6.65	2.93	0.44	2014	6.22	2.74	0.44	2128	5.79	2.55	0.44	2204
23	18	5.98	4.30	0.72	1862	5.49	3.95	0.72	1976	5.06	3.65	0.72	2052
23	20	6.28	3.77	0.60	1938	5.86	3.51	0.60	2033	5.43	3.26	0.60	2147
23	22	6.65	3.19	0.48	2014	6.22	2.99	0.48	2128	5.79	2.78	0.48	2204
24	18	5.98	4.54	0.76	1862	5.49	4.17	0.76	1976	5.06	3.85	0.76	2052
24	20	6.28	4.02	0.64	1938	5.86	3.75	0.64	2033	5.43	3.47	0.64	2147
24	22	6.65	3.46	0.52	2014	6.22	3.24	0.52	2128	5.79	3.01	0.52	2204
24	24	7.01	2.81	0.40	2090	6.59	2.64	0.40	2185	6.22	2.49	0.40	2280
25	18	5.98	4.78	0.80	1862	5.49	4.39	0.80	1976	5.06	4.05	0.8	2052
25	20	6.28	4.27	0.68	1938	5.86	3.98	0.68	2033	5.43	3.69	0.68	2147
25	22	6.65	3.72	0.56	2014	6.22	3.48	0.56	2128	5.79	3.25	0.56	2204
25	24	7.01	3.09	0.44	2090	6.59	2.90	0.44	2185	6.22	2.74	0.44	2280
26	18	5.98	5.02	0.84	1862	5.49	4.61	0.84	1976	5.06	4.25	0.84	2052
26	20	6.28	4.52	0.72	1938	5.86	4.22	0.72	2033	5.43	3.91	0.72	2147
26	22	6.65	3.99	0.60	2014	6.22	3.73	0.60	2128	5.79	3.48	0.60	2204
26	24	7.01	3.37	0.48	2090	6.59	3.16	0.48	2185	6.22	2.99	0.48	2280
26	26	7.38	2.66	0.36	2166	6.95	2.50	0.36	2261	6.53	2.35	0.36	2356
27	18	5.98	5.26	0.88	1862	5.49	4.83	0.88	1976	5.06	4.46	0.88	2052
27	20	6.28	4.78	0.76	1938	5.86	4.45	0.76	2033	5.43	4.13	0.76	2147
27	22	6.65	4.26	0.64	2014	6.22	3.98	0.64	2128	5.79	3.71	0.64	2204
27	24	7.01	3.65	0.52	2090	6.59	3.43	0.52	2185	6.22	3.24	0.52	2280
27	26	7.38	2.95	0.40	2166	6.95	2.78	0.40	2261	6.53	2.61	0.40	2356
28	18	5.98	5.50	0.92	1862	5.49	5.05	0.92	1976	5.06	4.66	0.92	2052
28	20	6.28	5.03	0.80	1938	5.86	4.68	0.80	2033	5.43	4.34	0.80	2147
28	22	6.65	4.52	0.68	2014	6.22	4.23	0.68	2128	5.79	3.94	0.68	2204
28	24	7.01	3.93	0.56	2090	6.59	3.69	0.56	2185	6.22	3.48	0.56	2280
28	26	7.38	3.25	0.44	2166	6.95	3.06	0.44	2261	6.53	2.87	0.44	2356
29	18	5.98	5.74	0.96	1862	5.49	5.27	0.96	1976	5.06	4.86	0.96	2052
29	20	6.28	5.28	0.84	1938	5.86	4.92	0.84	2033	5.43	4.56	0.84	2147
29	22	6.65	4.79	0.72	2014	6.22	4.48	0.72	2128	5.79	4.17	0.72	2204
29	24	7.01	4.21	0.60	2090	6.59	3.95	0.60	2185	6.22	3.73	0.60	2280
29	26	7.38	3.54	0.48	2166	6.95	3.34	0.48	2261	6.53	3.13	0.48	2356
30	18	5.98	5.98	1.00	1862	5.49	5.49	1.00	1976	5.06	5.06	1.00	2052
30	20	6.28	5.53	0.88	1938	5.86	5.15	0.88	2033	5.43	4.78	0.88	2147
30	22	6.65	5.05	0.76	2014	6.22	4.73	0.76	2128	5.79	4.40	0.76	2204
30	24	7.01	4.49	0.64	2090	6.59	4.22	0.64	2185	6.22	3.98	0.64	2280
30	26	7.38	3.84	0.52	2166	6.95	3.62	0.52	2261	6.53	3.39	0.52	2356
31	18	5.98	5.98	1.00	1862	5.49	5.49	1.00	1976	5.06	5.06	1.00	2052
31	20	6.28	5.78	0.92	1938	5.86	5.39	0.92	2033	5.43	4.99	0.92	2147
31	22	6.65	5.32	0.80	2014	6.22	4.98	0.80	2128	5.79	4.64	0.80	2204
31	24	7.01	4.77	0.68	2090	6.59	4.48	0.68	2185	6.22	4.23	0.68	2280
31	26	7.38	4.13	0.56	2166	6.95	3.89	0.56	2261	6.53	3.66	0.56	2356
32	18	5.98	5.98	1.00	1862	5.49	5.49	1.00	1976	5.06	5.06	1.00	2052
32	20	6.28	6.03	0.96	1938	5.86	5.62	0.96	2033	5.43	5.21	0.96	2147
32	22	6.65	5.59	0.84	2014	6.22	5.23	0.84	2128	5.79	4.87	0.84	2204
32	24	7.01	5.05	0.72	2090	6.59	4.74	0.72	2185	6.22	4.48	0.72	2280
32	26	7.38	4.43	0.60	2166	6.95	4.17	0.60	2261	6.53	3.92	0.60	2356

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE CURVES COOL operation at Rated frequency

MSZ-HJ71VA: MUZ-HJ71VA

CAPACITY: 7.1 kW SHF: 0.77 INPUT: 2330 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)															
		21				25				27				30			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	8.34	4.92	0.59	1864	7.99	4.71	0.59	1957	7.67	4.52	0.59	2050	7.38	4.36	0.59	2144
21	20	8.70	4.09	0.47	1957	8.34	3.92	0.47	2074	8.09	3.80	0.47	2120	7.81	3.67	0.47	2214
22	18	8.34	5.26	0.63	1864	7.99	5.03	0.63	1957	7.67	4.83	0.63	2050	7.38	4.65	0.63	2144
22	20	8.70	4.44	0.51	1957	8.34	4.25	0.51	2074	8.09	4.13	0.51	2120	7.81	3.98	0.51	2214
22	22	9.05	3.53	0.39	2027	8.73	3.41	0.39	2155	8.52	3.32	0.39	2214	8.17	3.18	0.39	2307
23	18	8.34	5.59	0.67	1864	7.99	5.35	0.67	1957	7.67	5.14	0.67	2050	7.38	4.95	0.67	2144
23	20	8.70	4.78	0.55	1957	8.34	4.59	0.55	2074	8.09	4.45	0.55	2120	7.81	4.30	0.55	2214
23	22	9.05	3.89	0.43	2027	8.73	3.76	0.43	2155	8.52	3.66	0.43	2214	8.17	3.51	0.43	2307
24	18	8.34	5.92	0.71	1864	7.99	5.67	0.71	1957	7.67	5.44	0.71	2050	7.38	5.24	0.71	2144
24	20	8.70	5.13	0.59	1957	8.34	4.92	0.59	2074	8.09	4.78	0.59	2120	7.81	4.61	0.59	2214
24	22	9.05	4.25	0.47	2027	8.73	4.10	0.47	2155	8.52	4.00	0.47	2214	8.17	3.84	0.47	2307
24	24	9.51	3.33	0.35	2120	9.16	3.21	0.35	2237	8.95	3.13	0.35	2307	8.66	3.03	0.35	2423
25	18	8.34	6.26	0.75	1864	7.99	5.99	0.75	1957	7.67	5.75	0.75	2050	7.38	5.54	0.75	2144
25	20	8.70	5.48	0.63	1957	8.34	5.26	0.63	2074	8.09	5.10	0.63	2120	7.81	4.92	0.63	2214
25	22	9.05	4.62	0.51	2027	8.73	4.45	0.51	2155	8.52	4.35	0.51	2214	8.17	4.16	0.51	2307
25	24	9.51	3.71	0.39	2120	9.16	3.57	0.39	2237	8.95	3.49	0.39	2307	8.66	3.38	0.39	2423
26	18	8.34	6.59	0.79	1864	7.99	6.31	0.79	1957	7.67	6.06	0.79	2050	7.38	5.83	0.79	2144
26	20	8.70	5.83	0.67	1957	8.34	5.59	0.67	2074	8.09	5.42	0.67	2120	7.81	5.23	0.67	2214
26	22	9.05	4.98	0.55	2027	8.73	4.80	0.55	2155	8.52	4.69	0.55	2214	8.17	4.49	0.55	2307
26	24	9.51	4.09	0.43	2120	9.16	3.94	0.43	2237	8.95	3.85	0.43	2307	8.66	3.72	0.43	2423
26	26	9.80	3.04	0.31	2237	9.51	2.95	0.31	2353	9.37	2.91	0.31	2423	9.09	2.82	0.31	2493
27	18	8.34	6.92	0.83	1864	7.99	6.63	0.83	1957	7.67	6.36	0.83	2050	7.38	6.13	0.83	2144
27	20	8.70	6.18	0.71	1957	8.34	5.92	0.71	2074	8.09	5.75	0.71	2120	7.81	5.55	0.71	2214
27	22	9.05	5.34	0.59	2027	8.73	5.15	0.59	2155	8.52	5.03	0.59	2214	8.17	4.82	0.59	2307
27	24	9.51	4.47	0.47	2120	9.16	4.30	0.47	2237	8.95	4.20	0.47	2307	8.66	4.07	0.47	2423
27	26	9.80	3.43	0.35	2237	9.51	3.33	0.35	2353	9.37	3.28	0.35	2423	9.09	3.18	0.35	2493
28	18	8.34	7.26	0.87	1864	7.99	6.95	0.87	1957	7.67	6.67	0.87	2050	7.38	6.42	0.87	2144
28	20	8.70	6.52	0.75	1957	8.34	6.26	0.75	2074	8.09	6.07	0.75	2120	7.81	5.86	0.75	2214
28	22	9.05	5.70	0.63	2027	8.73	5.50	0.63	2155	8.52	5.37	0.63	2214	8.17	5.14	0.63	2307
28	24	9.51	4.85	0.51	2120	9.16	4.67	0.51	2237	8.95	4.56	0.51	2307	8.66	4.42	0.51	2423
28	26	9.80	3.82	0.39	2237	9.51	3.71	0.39	2353	9.37	3.66	0.39	2423	9.09	3.54	0.39	2493
29	18	8.34	7.59	0.91	1864	7.99	7.27	0.91	1957	7.67	6.98	0.91	2050	7.38	6.72	0.91	2144
29	20	8.70	6.87	0.79	1957	8.34	6.59	0.79	2074	8.09	6.39	0.79	2120	7.81	6.17	0.79	2214
29	22	9.05	6.07	0.67	2027	8.73	5.85	0.67	2155	8.52	5.71	0.67	2214	8.17	5.47	0.67	2307
29	24	9.51	5.23	0.55	2120	9.16	5.04	0.55	2237	8.95	4.92	0.55	2307	8.66	4.76	0.55	2423
29	26	9.80	4.21	0.43	2237	9.51	4.09	0.43	2353	9.37	4.03	0.43	2423	9.09	3.91	0.43	2493
30	18	8.34	7.93	0.95	1864	7.99	7.59	0.95	1957	7.67	7.28	0.95	2050	7.38	7.01	0.95	2144
30	20	8.70	7.22	0.83	1957	8.34	6.92	0.83	2074	8.09	6.72	0.83	2120	7.81	6.48	0.83	2214
30	22	9.05	6.43	0.71	2027	8.73	6.20	0.71	2155	8.52	6.05	0.71	2214	8.17	5.80	0.71	2307
30	24	9.51	5.61	0.59	2120	9.16	5.40	0.59	2237	8.95	5.28	0.59	2307	8.66	5.11	0.59	2423
30	26	9.80	4.61	0.47	2237	9.51	4.47	0.47	2353	9.37	4.40	0.47	2423	9.09	4.27	0.47	2493
31	18	8.34	8.26	0.99	1864	7.99	7.91	0.99	1957	7.67	7.59	0.99	2050	7.38	7.31	0.99	2144
31	20	8.70	7.57	0.87	1957	8.34	7.26	0.87	2074	8.09	7.04	0.87	2120	7.81	6.79	0.87	2214
31	22	9.05	6.79	0.75	2027	8.73	6.55	0.75	2155	8.52	6.39	0.75	2214	8.17	6.12	0.75	2307
31	24	9.51	5.99	0.63	2120	9.16	5.77	0.63	2237	8.95	5.64	0.63	2307	8.66	5.46	0.63	2423
31	26	9.80	5.00	0.51	2237	9.51	4.85	0.51	2353	9.37	4.78	0.51	2423	9.09	4.63	0.51	2493
32	18	8.34	8.34	1.00	1864	7.99	7.99	1.00	1957	7.67	7.67	1.00	2050	7.38	7.38	1.00	2144
32	20	8.70	7.91	0.91	1957	8.34	7.59	0.91	2074	8.09	7.37	0.91	2120	7.81	7.11	0.91	2214
32	22	9.05	7.15	0.79	2027	8.73	6.90	0.79	2155	8.52	6.73	0.79	2214	8.17	6.45	0.79	2307
32	24	9.51	6.37	0.67	2120	9.16	6.14	0.67	2237	8.95	5.99	0.67	2307	8.66	5.80	0.67	2423
32	26	9.80	5.39	0.55	2237	9.51	5.23	0.55	2353	9.37	5.15	0.55	2423	9.09	5.00	0.55	2493

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE CURVES COOL operation at Rated frequency

MSZ-HJ71VA: MUZ-HJ71VA

CAPACITY: 7.1 kW SHF: 0.77 INPUT: 2330 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)											
		35				40				46			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	6.96	4.11	0.59	2283	6.39	3.77	0.59	2423	5.89	3.48	0.59	2516
21	20	7.31	3.44	0.47	2377	6.82	3.20	0.47	2493	6.32	2.97	0.47	2633
22	18	6.96	4.38	0.63	2283	6.39	4.03	0.63	2423	5.89	3.71	0.63	2516
22	20	7.31	3.73	0.51	2377	6.82	3.48	0.51	2493	6.32	3.22	0.51	2633
22	22	7.74	3.02	0.39	2470	7.24	2.82	0.39	2610	6.75	2.63	0.39	2703
23	18	6.96	4.66	0.67	2283	6.39	4.28	0.67	2423	5.89	3.95	0.67	2516
23	20	7.31	4.02	0.55	2377	6.82	3.75	0.55	2493	6.32	3.48	0.55	2633
23	22	7.74	3.33	0.43	2470	7.24	3.11	0.43	2610	6.75	2.90	0.43	2703
24	18	6.96	4.94	0.71	2283	6.39	4.54	0.71	2423	5.89	4.18	0.71	2516
24	20	7.31	4.31	0.59	2377	6.82	4.02	0.59	2493	6.32	3.73	0.59	2633
24	22	7.74	3.64	0.47	2470	7.24	3.40	0.47	2610	6.75	3.17	0.47	2703
24	24	8.17	2.86	0.35	2563	7.67	2.68	0.35	2680	7.24	2.53	0.35	2796
25	18	6.96	5.22	0.75	2283	6.39	4.79	0.75	2423	5.89	4.42	0.75	2516
25	20	7.31	4.61	0.63	2377	6.82	4.29	0.63	2493	6.32	3.98	0.63	2633
25	22	7.74	3.95	0.51	2470	7.24	3.69	0.51	2610	6.75	3.44	0.51	2703
25	24	8.17	3.18	0.39	2563	7.67	2.99	0.39	2680	7.24	2.82	0.39	2796
26	18	6.96	5.50	0.79	2283	6.39	5.05	0.79	2423	5.89	4.66	0.79	2516
26	20	7.31	4.90	0.67	2377	6.82	4.57	0.67	2493	6.32	4.23	0.67	2633
26	22	7.74	4.26	0.55	2470	7.24	3.98	0.55	2610	6.75	3.71	0.55	2703
26	24	8.17	3.51	0.43	2563	7.67	3.30	0.43	2680	7.24	3.11	0.43	2796
26	26	8.59	2.66	0.31	2656	8.09	2.51	0.31	2773	7.60	2.36	0.31	2889
27	18	6.96	5.78	0.83	2283	6.39	5.30	0.83	2423	5.89	4.89	0.83	2516
27	20	7.31	5.19	0.71	2377	6.82	4.84	0.71	2493	6.32	4.49	0.71	2633
27	22	7.74	4.57	0.59	2470	7.24	4.27	0.59	2610	6.75	3.98	0.59	2703
27	24	8.17	3.84	0.47	2563	7.67	3.60	0.47	2680	7.24	3.40	0.47	2796
27	26	8.59	3.01	0.35	2656	8.09	2.83	0.35	2773	7.60	2.66	0.35	2889
28	18	6.96	6.05	0.87	2283	6.39	5.56	0.87	2423	5.89	5.13	0.87	2516
28	20	7.31	5.48	0.75	2377	6.82	5.11	0.75	2493	6.32	4.74	0.75	2633
28	22	7.74	4.88	0.63	2470	7.24	4.56	0.63	2610	6.75	4.25	0.63	2703
28	24	8.17	4.16	0.51	2563	7.67	3.91	0.51	2680	7.24	3.69	0.51	2796
28	26	8.59	3.35	0.39	2656	8.09	3.16	0.39	2773	7.60	2.96	0.39	2889
29	18	6.96	6.33	0.91	2283	6.39	5.81	0.91	2423	5.89	5.36	0.91	2516
29	20	7.31	5.78	0.79	2377	6.82	5.38	0.79	2493	6.32	4.99	0.79	2633
29	22	7.74	5.19	0.67	2470	7.24	4.85	0.67	2610	6.75	4.52	0.67	2703
29	24	8.17	4.49	0.55	2563	7.67	4.22	0.55	2680	7.24	3.98	0.55	2796
29	26	8.59	3.69	0.43	2656	8.09	3.48	0.43	2773	7.60	3.27	0.43	2889
30	18	6.96	6.61	0.95	2283	6.39	6.07	0.95	2423	5.89	5.60	0.95	2516
30	20	7.31	6.07	0.83	2377	6.82	5.66	0.83	2493	6.32	5.24	0.83	2633
30	22	7.74	5.49	0.71	2470	7.24	5.14	0.71	2610	6.75	4.79	0.71	2703
30	24	8.17	4.82	0.59	2563	7.67	4.52	0.59	2680	7.24	4.27	0.59	2796
30	26	8.59	4.04	0.47	2656	8.09	3.80	0.47	2773	7.60	3.57	0.47	2889
31	18	6.96	6.89	0.99	2283	6.39	6.33	0.99	2423	5.89	5.83	0.99	2516
31	20	7.31	6.36	0.87	2377	6.82	5.93	0.87	2493	6.32	5.50	0.87	2633
31	22	7.74	5.80	0.75	2470	7.24	5.43	0.75	2610	6.75	5.06	0.75	2703
31	24	8.17	5.14	0.63	2563	7.67	4.83	0.63	2680	7.24	4.56	0.63	2796
31	26	8.59	4.38	0.51	2656	8.09	4.13	0.51	2773	7.60	3.87	0.51	2889
32	18	6.96	6.96	1.00	2283	6.39	6.39	1.00	2423	5.89	5.89	1.00	2516
32	20	7.31	6.65	0.91	2377	6.82	6.20	0.91	2493	6.32	5.75	0.91	2633
32	22	7.74	6.11	0.79	2470	7.24	5.72	0.79	2610	6.75	5.33	0.79	2703
32	24	8.17	5.47	0.67	2563	7.67	5.14	0.67	2680	7.24	4.85	0.67	2796
32	26	8.59	4.73	0.55	2656	8.09	4.45	0.55	2773	7.60	4.18	0.55	2889

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE CURVES Heat operation at Rated frequency

MSZ-FH25VE2: MUZ-FH25VE

CAPACITY: 3.2 kW INPUT: 580 W

INDOOR DB (°C)	OUTDOOR WB (°C)													
	-10		-5		0		5		10		15		20	
	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
15	2.02	377	2.43	452	2.85	510	3.26	551	3.68	586	4.06	603	4.48	615
21	1.92	406	2.30	481	2.72	534	3.10	574	3.52	603	3.90	621	4.30	644
26	1.73	435	2.14	510	2.53	563	2.94	603	3.36	632	3.74	650	4.16	667

MSZ-FH35VE2: MUZ-FH35VE

CAPACITY: 4.0 kW INPUT: 800 W

INDOOR DB (°C)	OUTDOOR WB (°C)													
	-10		-5		0		5		10		15		20	
	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
15	2.52	520	3.04	624	3.56	704	4.08	760	4.60	808	5.08	832	5.60	848
21	2.40	560	2.88	664	3.40	736	3.88	792	4.40	832	4.88	856	5.38	888
26	2.16	600	2.68	704	3.16	776	3.68	832	4.20	872	4.68	896	5.20	920

MSZ-FH50VE2: MUZ-FH50VE

CAPACITY: 6.0 kW INPUT: 1480 W

INDOOR DB (°C)	OUTDOOR WB (°C)													
	-10		-5		0		5		10		15		20	
	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
15	3.78	962	4.56	1154	5.34	1302	6.12	1406	6.90	1495	7.62	1539	8.40	1569
21	3.60	1036	4.32	1228	5.10	1362	5.82	1465	6.60	1539	7.32	1584	8.07	1643
26	3.24	1110	4.02	1302	4.74	1436	5.52	1539	6.30	1613	7.02	1658	7.80	1702

MSZ-FH25VE2: MUZ-FH25VEHZ

CAPACITY: 3.2 kW INPUT: 580 W

INDOOR DB (°C)	OUTDOOR WB (°C)													
	-10		-5		0		5		10		15		20	
	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
15	2.02	377	2.43	452	2.85	510	3.26	551	3.68	586	4.06	603	4.48	615
21	1.92	406	2.30	481	2.72	534	3.10	574	3.52	603	3.90	621	4.30	644
26	1.73	435	2.14	510	2.53	563	2.94	603	3.36	632	3.74	650	4.16	667

MSZ-FH35VE2: MUZ-FH35VEHZ

CAPACITY: 4.0 kW INPUT: 800 W

INDOOR DB (°C)	OUTDOOR WB (°C)													
	-10		-5		0		5		10		15		20	
	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
15	2.52	520	3.04	624	3.56	704	4.08	760	4.60	808	5.08	832	5.60	848
21	2.40	560	2.88	664	3.40	736	3.88	792	4.40	832	4.88	856	5.38	888
26	2.16	600	2.68	704	3.16	776	3.68	832	4.20	872	4.68	896	5.20	920

MSZ-FH50VE2: MUZ-FH50VEHZ

CAPACITY: 6.0 kW INPUT: 1480 W

INDOOR DB (°C)	OUTDOOR WB (°C)													
	-10		-5		0		5		10		15		20	
	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
15	3.78	962	4.56	1154	5.34	1302	6.12	1406	6.90	1495	7.62	1539	8.40	1569
21	3.60	1036	4.32	1228	5.10	1362	5.82	1465	6.60	1539	7.32	1584	8.07	1643
26	3.24	1110	4.02	1302	4.74	1436	5.52	1539	6.30	1613	7.02	1658	7.80	1702

NOTE: Q: Total capacity (kW) INPUT : Total power input (W) DB: Dry-bulb temperature WB: Wet-bulb temperature

PERFORMANCE CURVES Heat operation at Rated frequency

MSZ-EF25VE3W MSZ-EF25VE3B MSZ-EF25VE3S: MUZ-EF25VE MUZ-EF25VEH

CAPACITY: 3.2 kW INPUT: 700 W

INDOOR DB (°C)	OUTDOOR WB (°C)													
	-10		-5		0		5		10		15		20	
	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
15	2.02	455	2.43	546	2.85	616	3.26	665	3.68	707	4.06	728	4.48	742
21	1.92	490	2.30	581	2.72	644	3.10	693	3.52	728	3.90	749	4.30	777
26	1.73	525	2.14	616	2.53	679	2.94	728	3.36	763	3.74	784	4.16	805

MSZ-EF35VE3W MSZ-EF35VE3B MSZ-EF35VE3S: MUZ-EF35VE MUZ-EF35VEH

CAPACITY: 4.0 kW INPUT: 955 W

INDOOR DB (°C)	OUTDOOR WB (°C)													
	-10		-5		0		5		10		15		20	
	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
15	2.52	621	3.04	745	3.56	840	4.08	907	4.60	965	5.08	993	5.60	1012
21	2.40	669	2.88	793	3.40	879	3.88	945	4.40	993	4.88	1022	5.38	1060
26	2.16	716	2.68	840	3.16	926	3.68	993	4.20	1041	4.68	1070	5.20	1098

MSZ-EF42VE3W MSZ-EF42VE3B MSZ-EF42VE3S: MUZ-EF42VE

CAPACITY: 5.4 kW INPUT: 1460 W

INDOOR DB (°C)	OUTDOOR WB (°C)													
	-10		-5		0		5		10		15		20	
	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
15	3.40	949	4.10	1139	4.81	1285	5.51	1387	6.21	1475	6.86	1518	7.56	1548
21	3.24	1022	3.89	1212	4.59	1343	5.24	1445	5.94	1518	6.59	1562	7.26	1621
26	2.92	1095	3.62	1285	4.27	1416	4.97	1518	5.67	1591	6.32	1635	7.02	1679

MSZ-EF50VE3W MSZ-EF50VE3B MSZ-EF50VE3S: MUZ-EF50VE

CAPACITY: 5.8 kW INPUT: 1565 W

INDOOR DB (°C)	OUTDOOR WB (°C)													
	-10		-5		0		5		10		15		20	
	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
15	3.65	1017	4.41	1221	5.16	1377	5.92	1487	6.67	1581	7.37	1628	8.12	1659
21	3.48	1096	4.18	1299	4.93	1440	5.63	1549	6.38	1628	7.08	1675	7.80	1737
26	3.13	1174	3.89	1377	4.58	1518	5.34	1628	6.09	1706	6.79	1753	7.54	1800

MSZ-SF25VE3: MUZ-SF25VE MUZ-SF25VEH

CAPACITY: 3.2 kW INPUT: 780 W

INDOOR DB (°C)	OUTDOOR WB (°C)													
	-10		-5		0		5		10		15		20	
	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
15	2.02	507	2.43	608	2.85	686	3.26	741	3.68	788	4.06	811	4.48	827
21	1.92	546	2.30	647	2.72	718	3.10	772	3.52	811	3.90	835	4.30	866
26	1.73	585	2.14	686	2.53	757	2.94	811	3.36	850	3.74	874	4.16	897

MSZ-SF35VE3: MUZ-SF35VE MUZ-SF35VEH

CAPACITY: 4.0 kW INPUT: 1030 W

INDOOR DB (°C)	OUTDOOR WB (°C)													
	-10		-5		0		5		10		15		20	
	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
15	2.52	670	3.04	803	3.56	906	4.08	979	4.60	1040	5.08	1071	5.60	1092
21	2.40	721	2.88	855	3.40	948	3.88	1020	4.40	1071	4.88	1102	5.38	1143
26	2.16	773	2.68	906	3.16	999	3.68	1071	4.20	1123	4.68	1154	5.20	1185

NOTE: Q: Total capacity (kW) INPUT : Total power input (W) DB: Dry-bulb temperature WB: Wet-bulb temperature

PERFORMANCE CURVES Heat operation at Rated frequency

MSZ-SF42VE3: MUZ-SF42VE MUZ-SF42VEH

CAPACITY: 5.4 kW INPUT: 1580 W

INDOOR DB (°C)	OUTDOOR WB (°C)													
	-10		-5		0		5		10		15		20	
	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
15	3.40	1027	4.10	1232	4.81	1390	5.51	1501	6.21	1596	6.86	1643	7.56	1675
21	3.24	1106	3.89	1311	4.59	1454	5.24	1564	5.94	1643	6.59	1691	7.26	1754
26	2.92	1185	3.62	1390	4.27	1533	4.97	1643	5.67	1722	6.32	1770	7.02	1817

MSZ-SF50VE3: MUZ-SF50VE MUZ-SF50VEH

CAPACITY: 5.8 kW INPUT: 1700 W

INDOOR DB (°C)	OUTDOOR WB (°C)													
	-10		-5		0		5		10		15		20	
	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
15	3.65	1105	4.41	1326	5.16	1496	5.92	1615	6.67	1717	7.37	1768	8.12	1802
21	3.48	1190	4.18	1411	4.93	1564	5.63	1683	6.38	1768	7.08	1819	7.80	1887
26	3.13	1275	3.89	1496	4.58	1649	5.34	1768	6.09	1853	6.79	1904	7.54	1955

MSZ-GF60VE2: MUZ-GF60VE

CAPACITY: 6.8 kW INPUT: 1810 W

INDOOR DB (°C)	OUTDOOR WB (°C)													
	-10		-5		0		5		10		15		20	
	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
15	4.28	1177	5.17	1412	6.05	1593	6.94	1720	7.82	1828	8.64	1882	9.52	1919
21	4.08	1267	4.90	1502	5.78	1665	6.60	1792	7.48	1882	8.30	1937	9.15	2009
26	3.67	1358	4.56	1593	5.37	1756	6.26	1882	7.14	1973	7.96	2027	8.84	2082

MSZ-GF71VE2: MUZ-GF71VE

CAPACITY: 8.1 kW INPUT: 2230 W

INDOOR DB (°C)	OUTDOOR WB (°C)													
	-10		-5		0		5		10		15		20	
	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
15	5.10	1450	6.16	1739	7.21	1962	8.26	2119	9.32	2252	10.29	2319	11.34	2364
21	4.86	1561	5.83	1851	6.89	2052	7.86	2208	8.91	2319	9.88	2386	10.89	2475
26	4.37	1673	5.43	1962	6.40	2163	7.45	2319	8.51	2431	9.48	2498	10.53	2565

MSZ-DM25VA: MUZ-DM25VA

CAPACITY: 3.15 kW INPUT: 850 W

INDOOR DB (°C)	OUTDOOR WB (°C)													
	-10		-5		0		5		10		15		20	
	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
15	1.98	553	2.39	663	2.80	748	3.21	808	3.62	859	4.00	884	4.41	901
21	1.89	595	2.27	706	2.68	782	3.06	842	3.47	884	3.84	910	4.24	944
26	1.70	638	2.11	748	2.49	825	2.90	884	3.31	927	3.69	952	4.10	978

MSZ-DM35VA: MUZ-DM35VA

CAPACITY: 3.6 kW INPUT: 975 W

INDOOR DB (°C)	OUTDOOR WB (°C)													
	-10		-5		0		5		10		15		20	
	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
15	2.27	634	2.74	761	3.20	858	3.67	926	4.14	985	4.57	1014	5.04	1034
21	2.16	683	2.59	809	3.06	897	3.49	965	3.96	1014	4.39	1043	4.84	1082
26	1.94	731	2.41	858	2.84	946	3.31	1014	3.78	1063	4.21	1092	4.68	1121

NOTE: Q: Total capacity (kW) INPUT : Total power input (W) DB: Dry-bulb temperature WB: Wet-bulb temperature

PERFORMANCE CURVES Heat operation at Rated frequency

MSZ-HJ25VA: MUZ-HJ25VA

CAPACITY: 3.15 kW INPUT: 870 W

INDOOR DB (°C)	OUTDOOR WB (°C)													
	-10		-5		0		5		10		15		20	
	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
15	1.98	566	2.39	679	2.80	766	3.21	827	3.62	879	4.00	905	4.41	922
21	1.89	609	2.27	722	2.68	800	3.06	861	3.47	905	3.84	931	4.24	966
26	1.70	653	2.11	766	2.49	844	2.90	905	3.31	948	3.69	974	4.10	1001

MSZ-HJ35VA: MUZ-HJ35VA

CAPACITY: 3.6 kW INPUT: 995 W

INDOOR DB (°C)	OUTDOOR WB (°C)													
	-10		-5		0		5		10		15		20	
	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
15	2.27	647	2.74	776	3.20	876	3.67	945	4.14	1005	4.57	1035	5.04	1055
21	2.16	697	2.59	826	3.06	915	3.49	985	3.96	1035	4.39	1065	4.84	1104
26	1.94	746	2.41	876	2.84	965	3.31	1035	3.78	1085	4.21	1114	4.68	1144

MSZ-HJ50VA: MUZ-HJ50VA

CAPACITY: 5.4 kW INPUT: 1480 W

INDOOR DB (°C)	OUTDOOR WB (°C)													
	-10		-5		0		5		10		15		20	
	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
15	3.40	962	4.10	1154	4.81	1302	5.51	1406	6.21	1495	6.86	1539	7.56	1569
21	3.24	1036	3.89	1228	4.59	1362	5.24	1465	5.94	1539	6.59	1584	7.26	1643
26	2.92	1110	3.62	1302	4.27	1436	4.97	1539	5.67	1613	6.32	1658	7.02	1702

MSZ-HJ60VA: MUZ-HJ60VA

CAPACITY: 6.8 kW INPUT: 1970 W

INDOOR DB (°C)	OUTDOOR WB (°C)													
	-10		-5		0		5		10		15		20	
	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
15	4.28	1281	5.17	1537	6.05	1734	6.94	1872	7.82	1990	8.64	2049	9.52	2088
21	4.08	1379	4.90	1635	5.78	1812	6.60	1950	7.48	2049	8.30	2108	9.15	2187
26	3.67	1478	4.56	1734	5.37	1911	6.26	2049	7.14	2147	7.96	2206	8.84	2266

MSZ-HJ71VA: MUZ-HJ71VA

CAPACITY: 8.1 kW INPUT: 2440 W

INDOOR DB (°C)	OUTDOOR WB (°C)													
	-10		-5		0		5		10		15		20	
	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
15	5.10	1586	6.16	1903	7.21	2147	8.26	2318	9.32	2464	10.29	2538	11.34	2586
21	4.86	1708	5.83	2025	6.89	2245	7.86	2416	8.91	2538	9.88	2611	10.89	2708
26	4.37	1830	5.43	2147	6.40	2367	7.45	2538	8.51	2660	9.48	2733	10.53	2806

NOTE Q: Total capacity (kW) INPUT : Total power input (W) DB: Dry-bulb temperature WB: Wet-bulb temperature

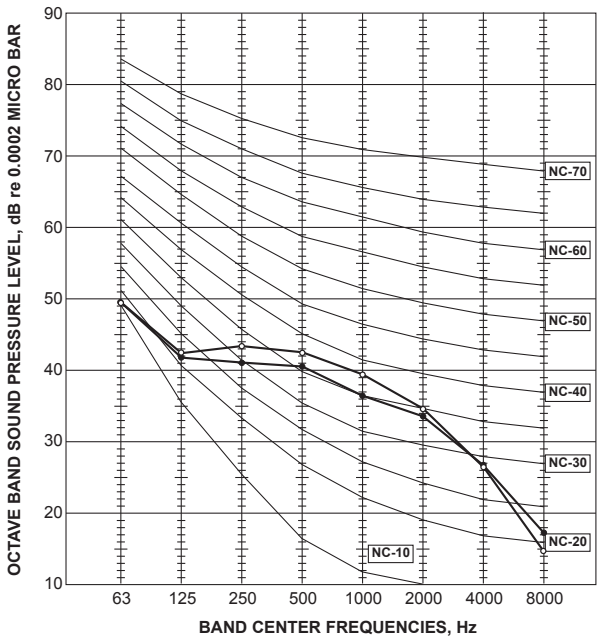
C.1.7 NOISE CRITERIA CURVES

C.1.7.1 Indoor Unit

MSZ-FH25VE2 MSZ-FH35VE2

INDOOR UNIT

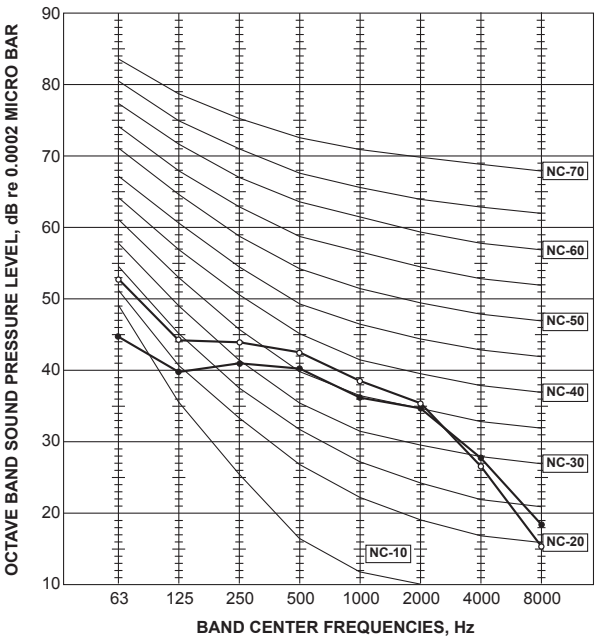
FAN SPEED	FUNCTION	SPL(dB(A))	LINE
Super High	COOLING	42	●—●
	HEATING	44	○—○



MSZ-FH50VE2

INDOOR UNIT

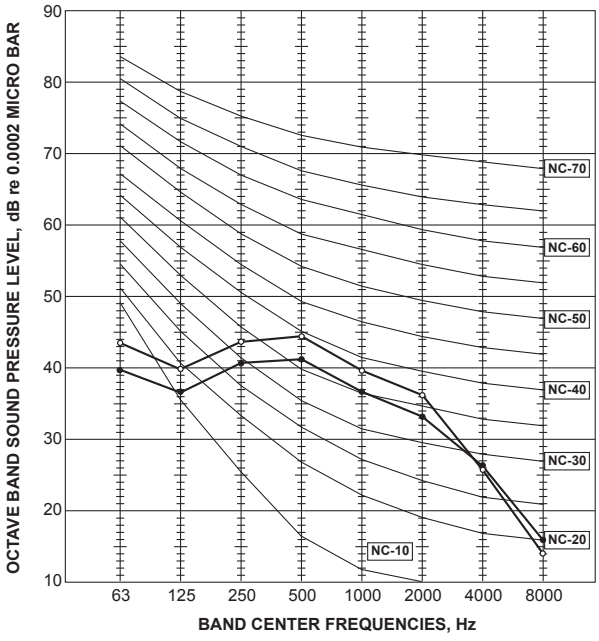
FAN SPEED	FUNCTION	SPL(dB(A))	LINE
Super High	COOLING	44	●—●
	HEATING	46	○—○



MSZ-EF18VE3W MSZ-EF22VE3W MSZ-EF25VE3W
MSZ-EF18VE3B MSZ-EF22VE3B MSZ-EF25VE3B
MSZ-EF18VE3S MSZ-EF22VE3S MSZ-EF25VE3S

INDOOR UNIT

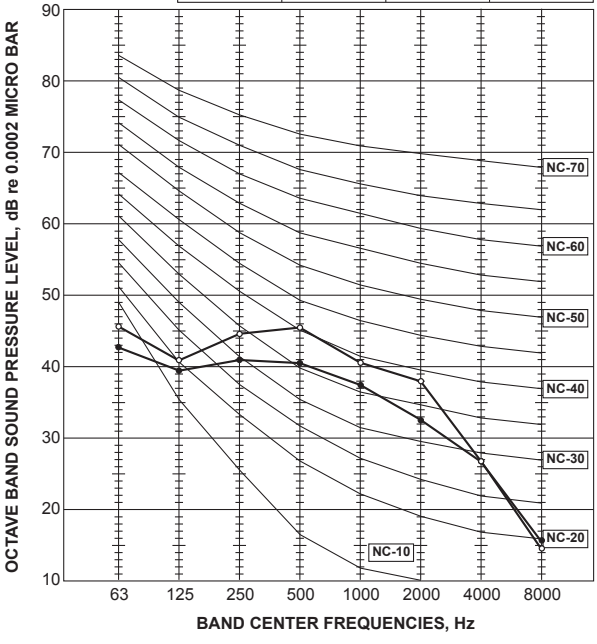
FAN SPEED	FUNCTION	SPL(dB(A))	LINE
Super High	COOLING	42	●—●
	HEATING	45	○—○



MSZ-EF35VE3W
MSZ-EF35VE3B
MSZ-EF35VE3S

INDOOR UNIT

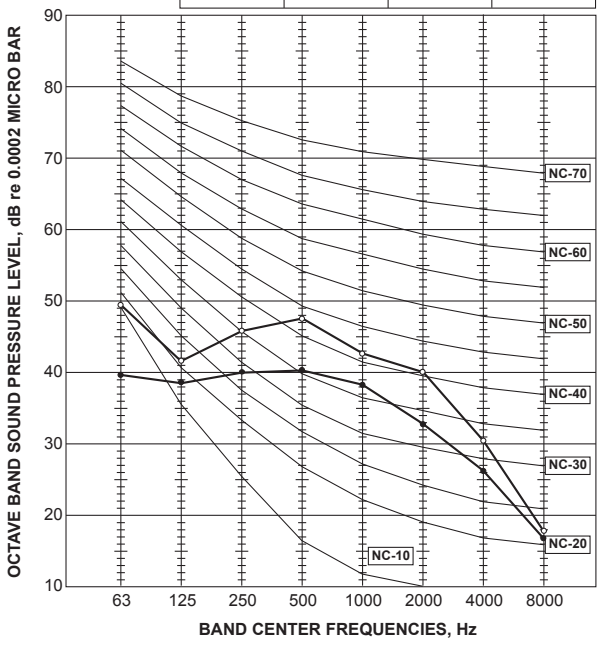
FAN SPEED	FUNCTION	SPL(dB(A))	LINE
Super High	COOLING	42	●—●
	HEATING	46	○—○



MSZ-EF42VE3W
MSZ-EF42VE3B
MSZ-EF42VE3S

INDOOR UNIT

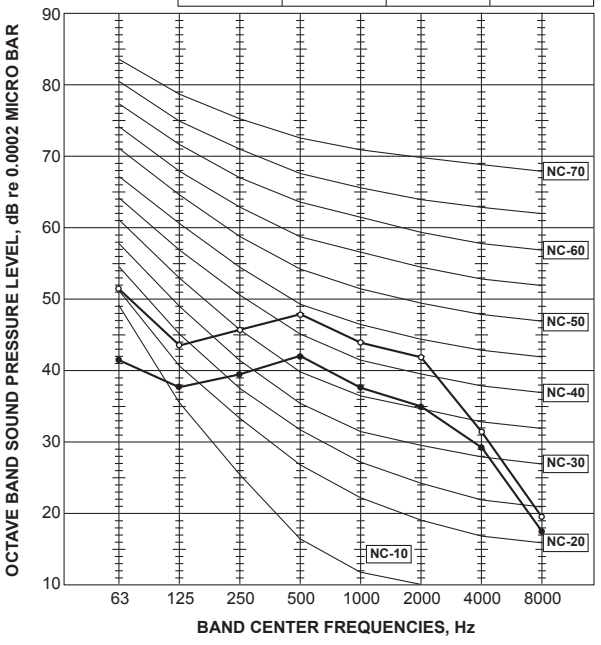
FAN SPEED	FUNCTION	SPL(dB(A))	LINE
Super High	COOLING	42	●—●
	HEATING	48	○—○



MSZ-EF50VE3W
MSZ-EF50VE3B
MSZ-EF50VE3S

INDOOR UNIT

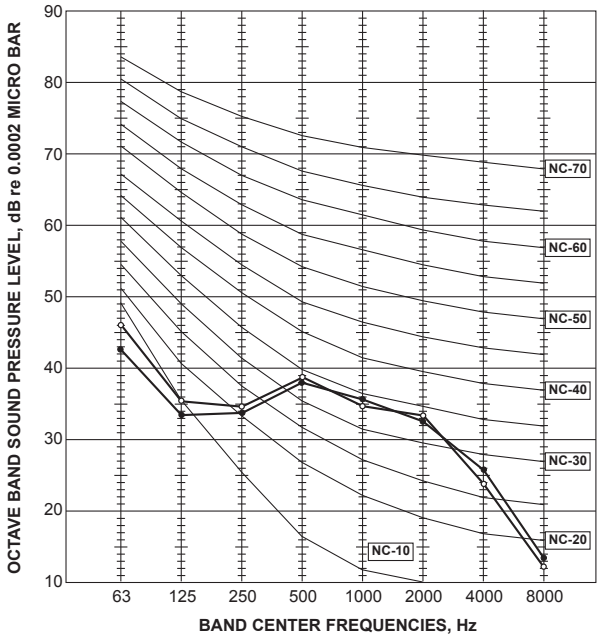
FAN SPEED	FUNCTION	SPL(dB(A))	LINE
Super High	COOLING	43	●—●
	HEATING	49	○—○



MSZ-SF15VA

INDOOR UNIT

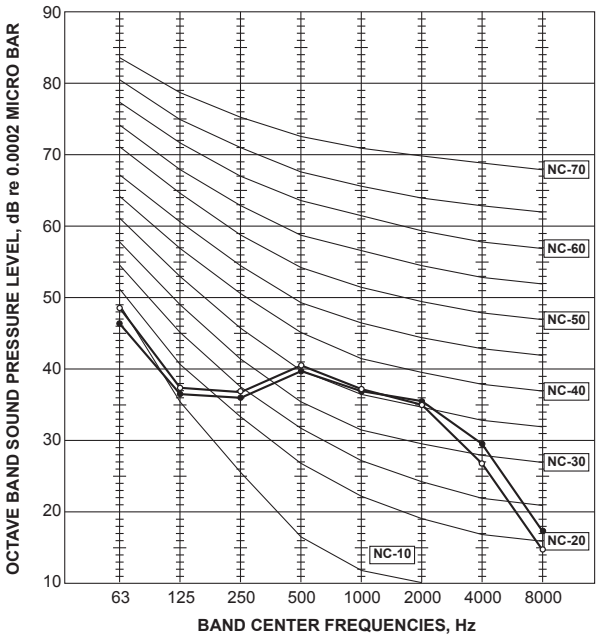
FAN SPEED	FUNCTION	SPL(dB(A))	LINE
Super High	COOLING	40	●—●
	HEATING	40	○—○



MSZ-SF20VA

INDOOR UNIT

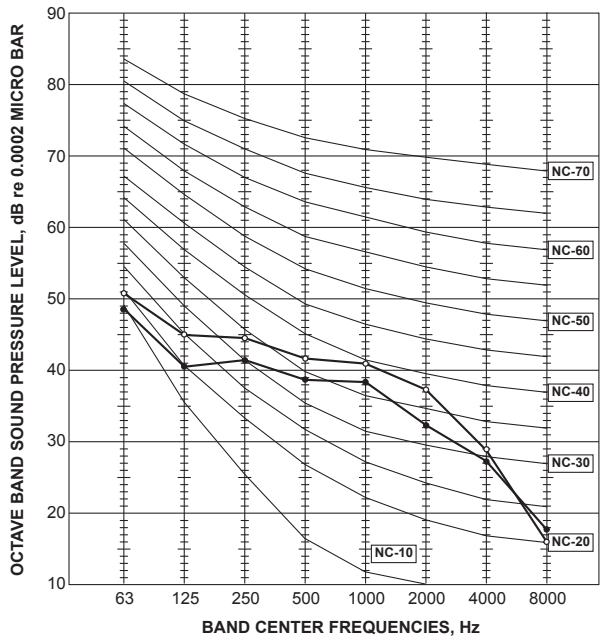
FAN SPEED	FUNCTION	SPL(dB(A))	LINE
Super High	COOLING	42	●—●
	HEATING	42	○—○



MSZ-SF25VE3

INDOOR UNIT

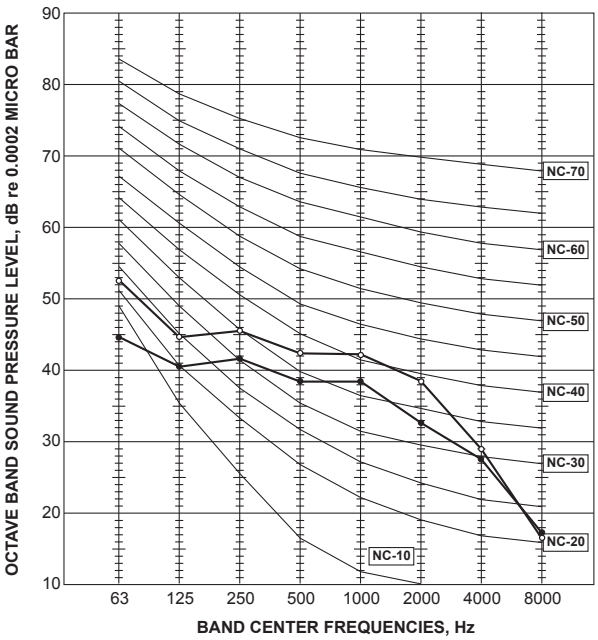
FAN SPEED	FUNCTION	SPL(dB(A))	LINE
Super High	COOLING	42	●—●
	HEATING	45	○—○



MSZ-SF35VE3

INDOOR UNIT

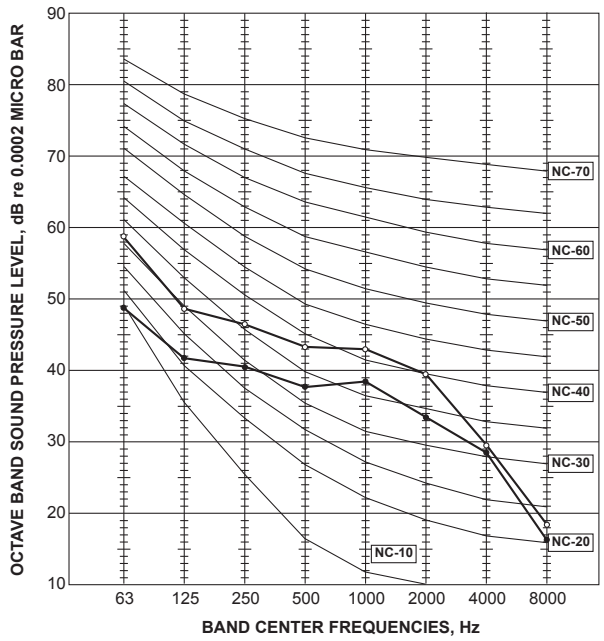
FAN SPEED	FUNCTION	SPL(dB(A))	LINE
Super High	COOLING	42	●—●
	HEATING	46	○—○



MSZ-SF42VE3

INDOOR UNIT

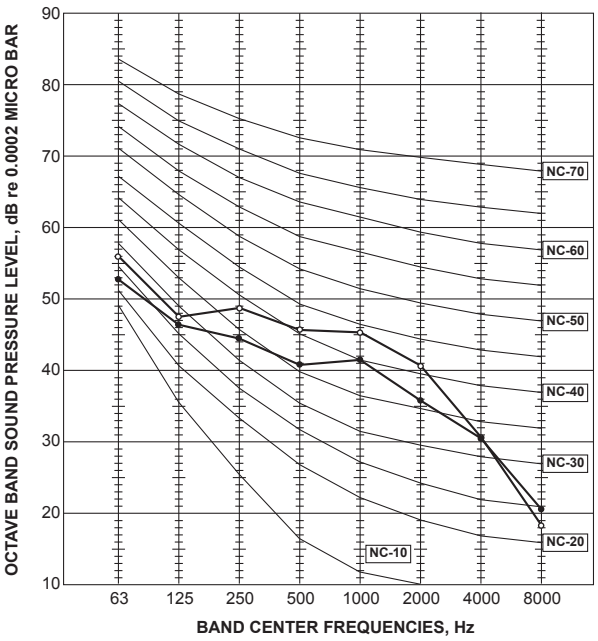
FAN SPEED	FUNCTION	SPL(dB(A))	LINE
Super High	COOLING	42	●—●
	HEATING	47	○—○



MSZ-SF50VE3

INDOOR UNIT

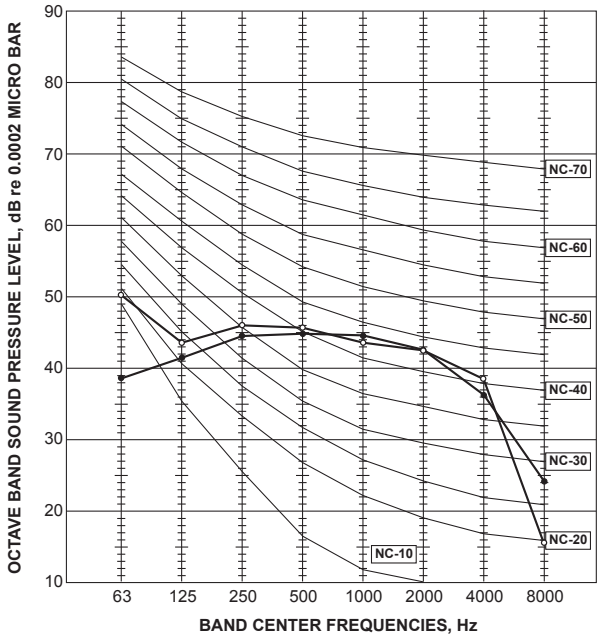
FAN SPEED	FUNCTION	SPL(dB(A))	LINE
Super High	COOLING	45	●—●
	HEATING	49	○—○



MSZ-GF60VE2

INDOOR UNIT

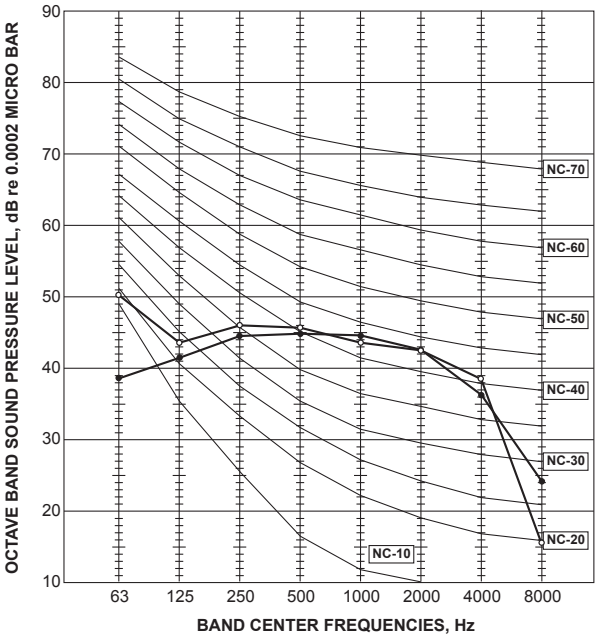
FAN SPEED	FUNCTION	SPL(dB(A))	LINE
Super High	COOLING	49	●—●
	HEATING	49	○—○



MSZ-GF71VE2

INDOOR UNIT

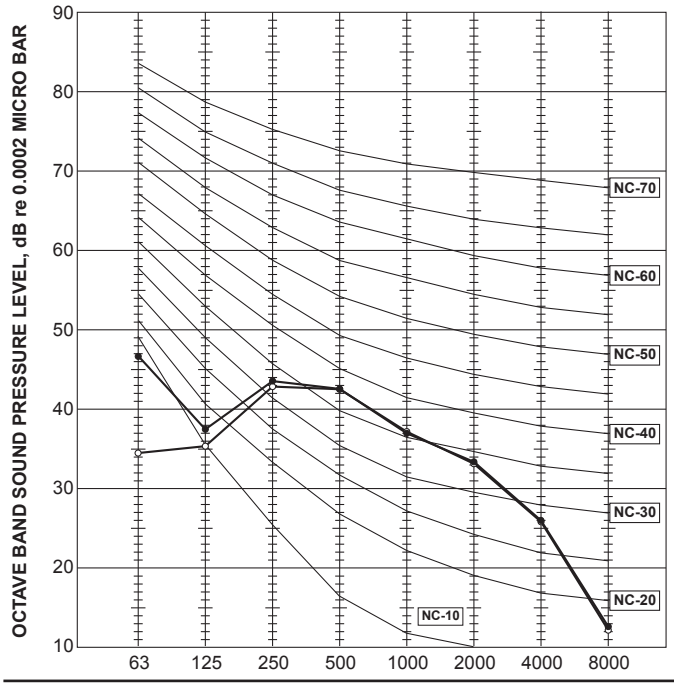
FAN SPEED	FUNCTION	SPL(dB(A))	LINE
Super High	COOLING	49	●—●
	HEATING	49	○—○



MSZ-DM25VA

INDOOR UNIT

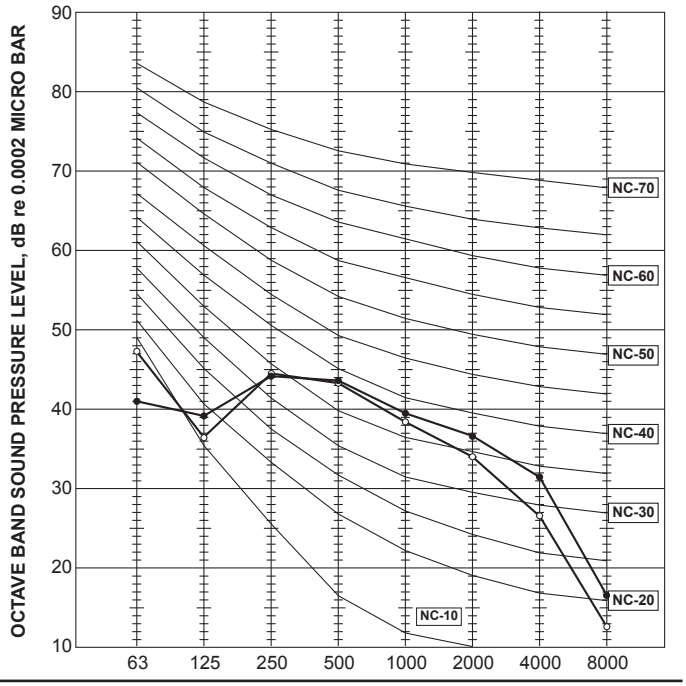
FAN SPEED	FUNCTION	SPL(dB(A))	LINE
Super High	COOLING	43	●—●
	HEATING	43	○—○



MSZ-DM35VA

INDOOR UNIT

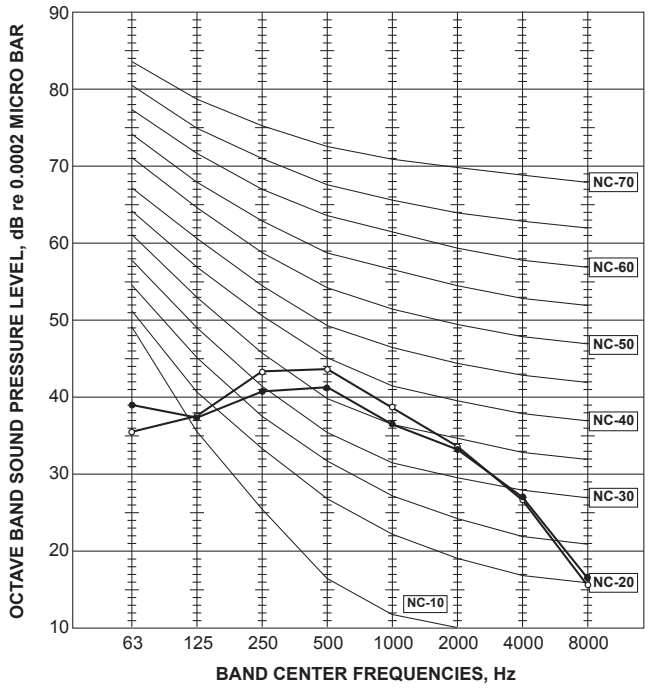
FAN SPEED	FUNCTION	SPL(dB(A))	LINE
Super High	COOLING	45	●—●
	HEATING	44	○—○



MSZ-HJ25VA

INDOOR UNIT

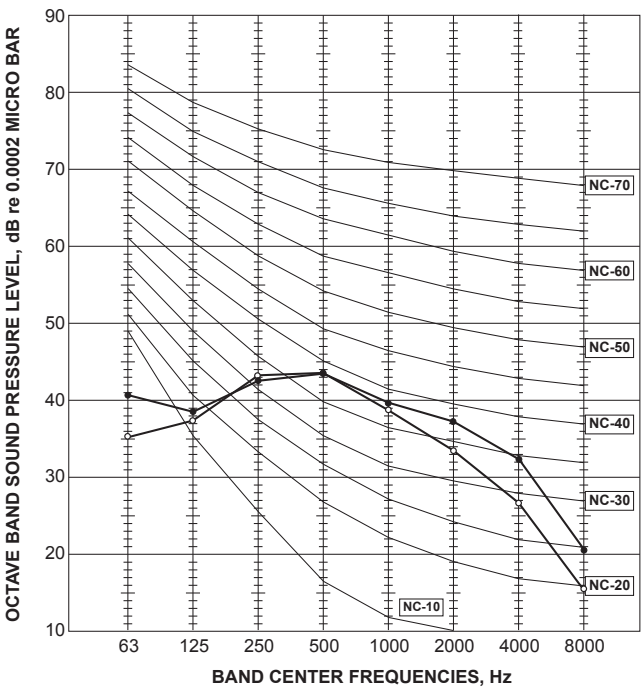
FAN SPEED	FUNCTION	SPL(dB(A))	LINE
Super High	COOLING	43	●—●
	HEATING	43	○—○



MSZ-HJ35VA

INDOOR UNIT

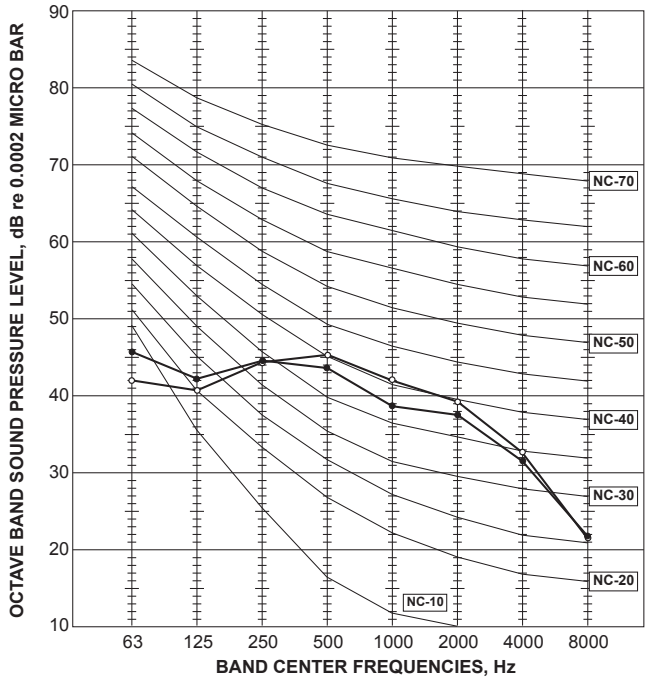
FAN SPEED	FUNCTION	SPL(dB(A))	LINE
Super High	COOLING	45	●—●
	HEATING	44	○—○



MSZ-HJ50VA

INDOOR UNIT

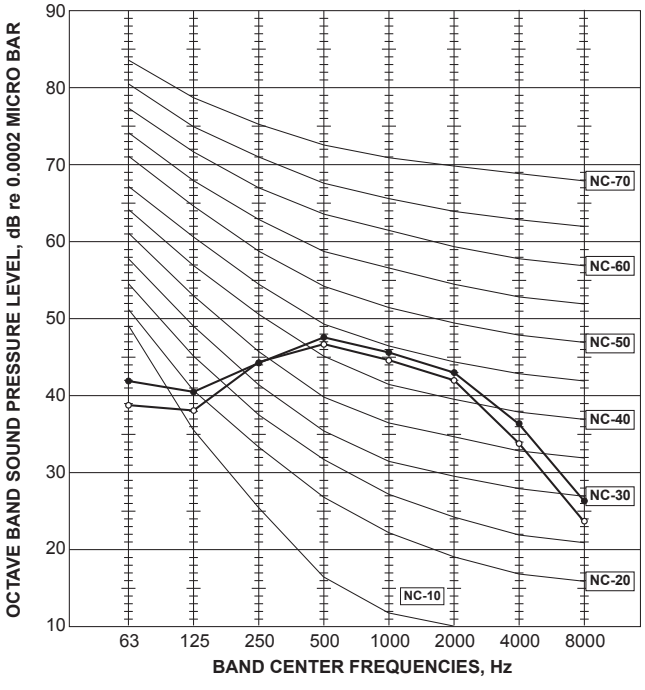
FAN SPEED	FUNCTION	SPL(dB(A))	LINE
Super High	COOLING	45	●—●
	HEATING	47	○—○



MSZ-HJ60VA

INDOOR UNIT

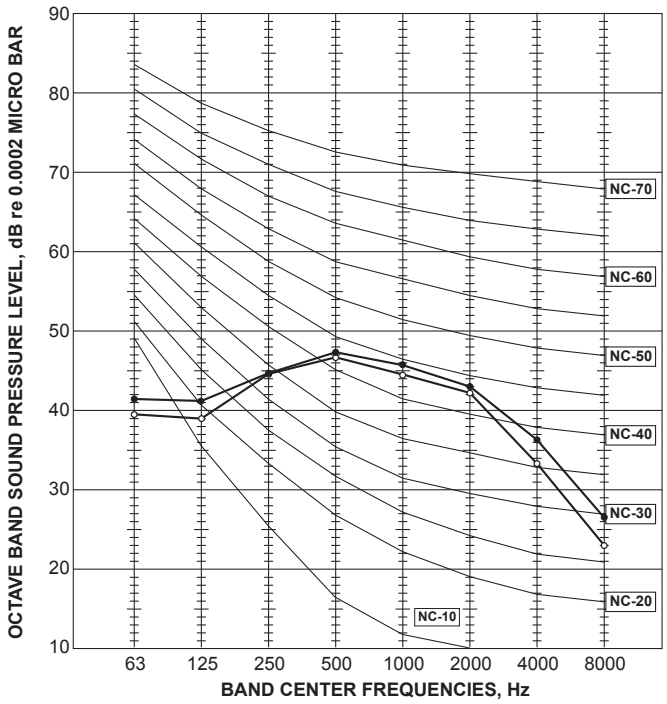
FAN SPEED	FUNCTION	SPL(dB(A))	LINE
Super High	COOLING	50	●—●
	HEATING	49	○—○



MSZ-HJ71VA

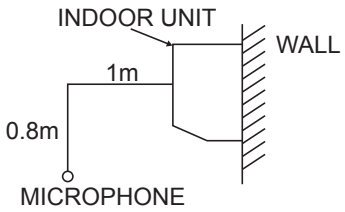
INDOOR UNIT

FAN SPEED	FUNCTION	SPL(dB(A))	LINE
Super High	COOLING	50	●—●
	HEATING	49	○—○



Test conditions

Cooling: Dry-bulb temperature 27 °C Wet-bulb temperature 19 °C
Heating: Dry-bulb temperature 20 °C

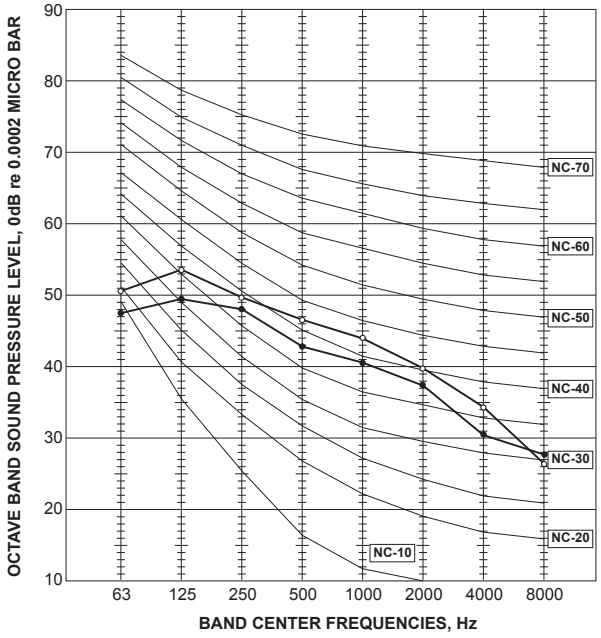


C.1.7.2 Outdoor Unit

MUZ-FH25VE

OUTDOOR UNIT

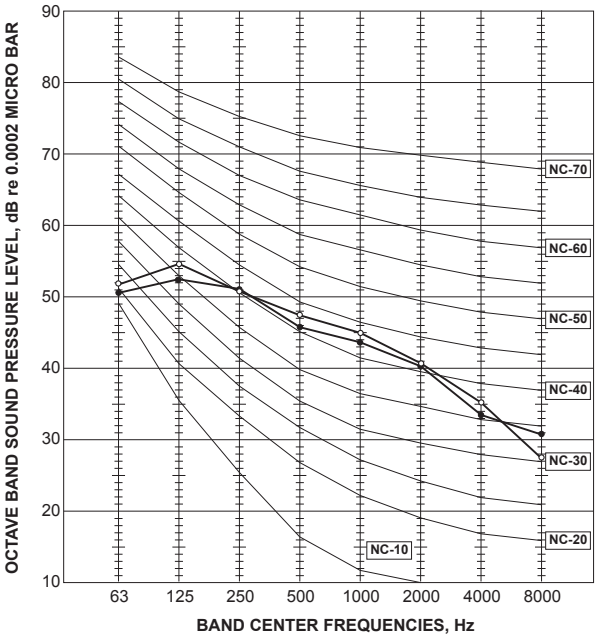
FUNCTION	SPL(dB(A))	LINE
COOLING	46	●—●
HEATING	49	○—○



MUZ-FH35VE

OUTDOOR UNIT

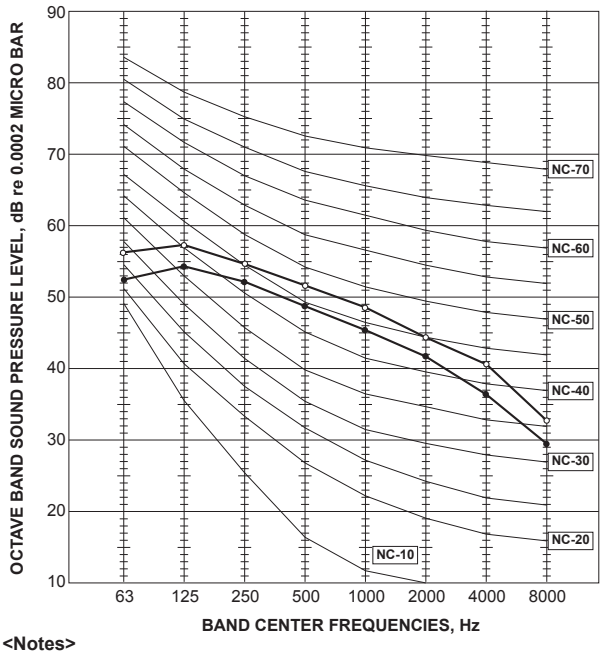
FUNCTION	SPL(dB(A))	LINE
COOLING	49	●—●
HEATING	50	○—○



MUZ-FH50VE

OUTDOOR UNIT

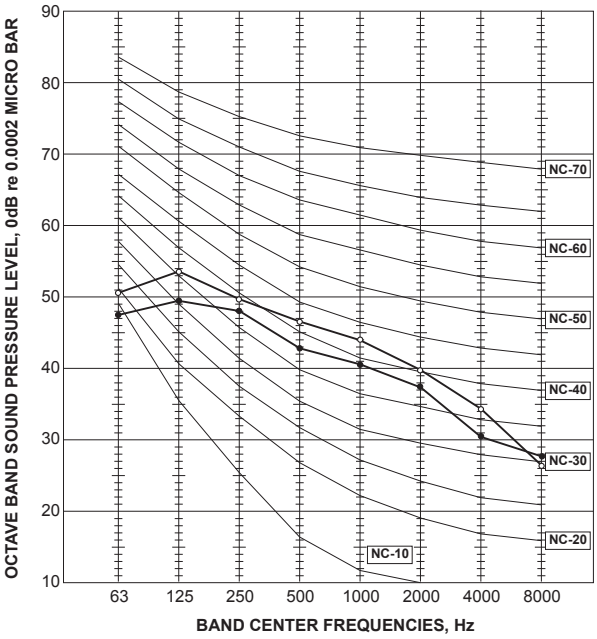
FUNCTION	SPL(dB(A))	LINE
COOLING	51	●—●
HEATING	54	○—○



MUZ-FH25VEHZ

OUTDOOR UNIT

FUNCTION	SPL(dB(A))	LINE
COOLING	46	●—●
HEATING	49	○—○

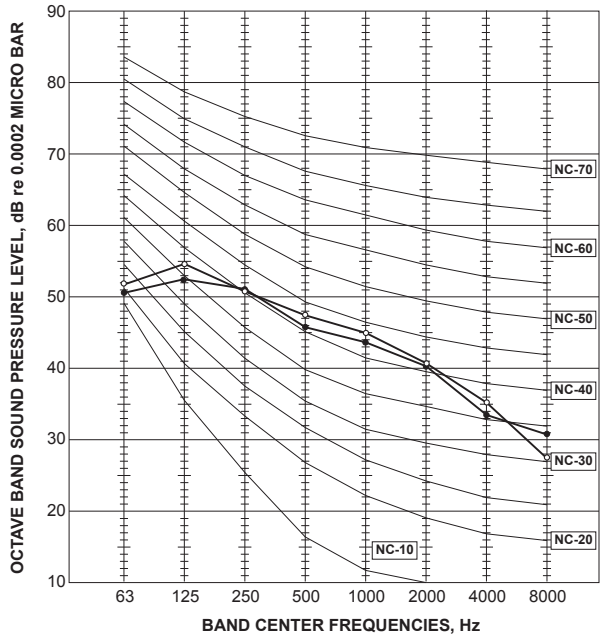


<Notes>
1) Sound data is taken when the system is running stably.
2) Relatively large noise could be heard transiently in the case 4-way valve, or LEV operates.

MUZ-FH35VEHZ

OUTDOOR UNIT

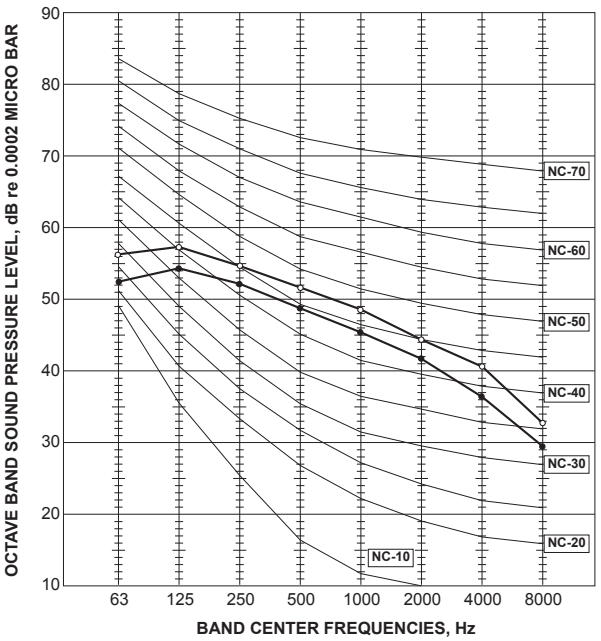
FUNCTION	SPL(dB(A))	LINE
COOLING	49	●—●
HEATING	50	○—○



MUZ-FH50VEHZ

OUTDOOR UNIT

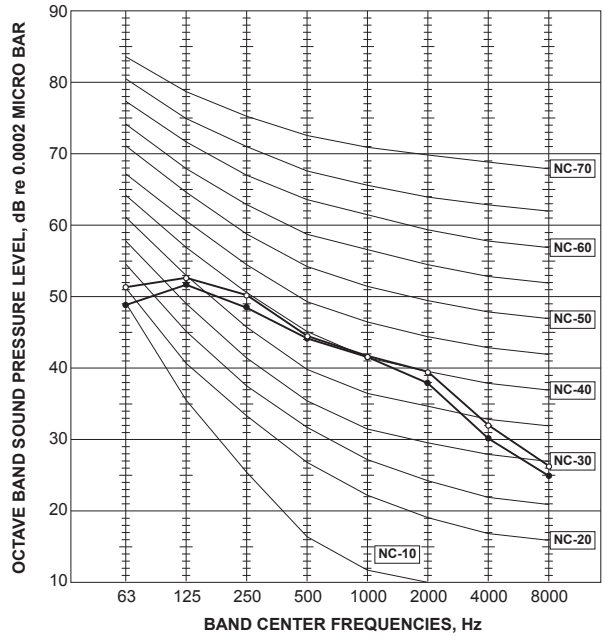
FUNCTION	SPL(dB(A))	LINE
COOLING	51	●—●
HEATING	54	○—○



MUZ-EF25VE MUZ-EF25VEH

OUTDOOR UNIT

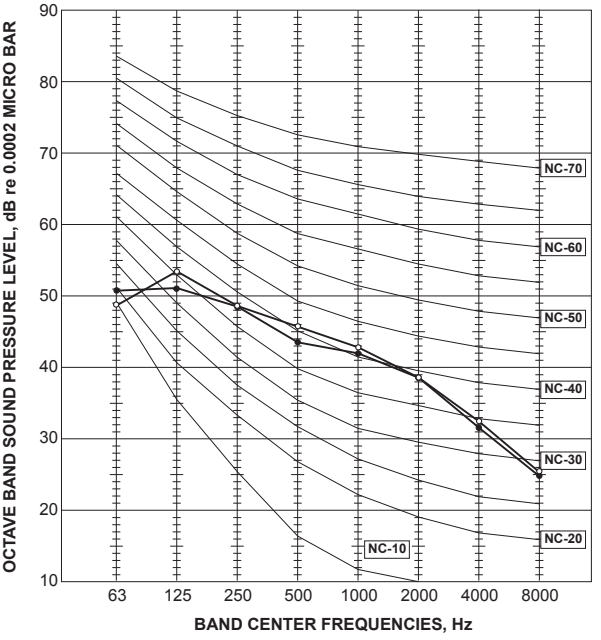
FUNCTION	SPL(dB(A))	LINE
COOLING	47	●—●
HEATING	48	○—○



MUZ-EF35VE MUZ-EF35VEH

OUTDOOR UNIT

FUNCTION	SPL(dB(A))	LINE
COOLING	49	●—●
HEATING	50	○—○

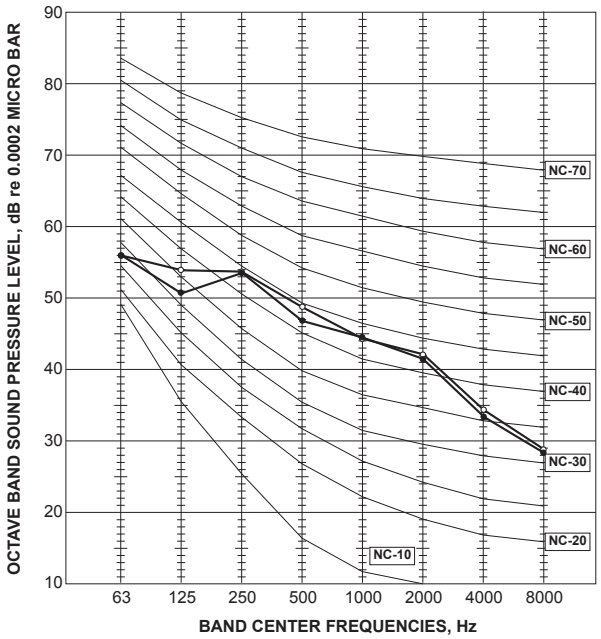


<Notes>
1) Sound data is taken when the system is running stably.
2) Relatively large noise could be heard transiently in the case 4-way valve, or LEV operates.

MUZ-EF42VE

OUTDOOR UNIT

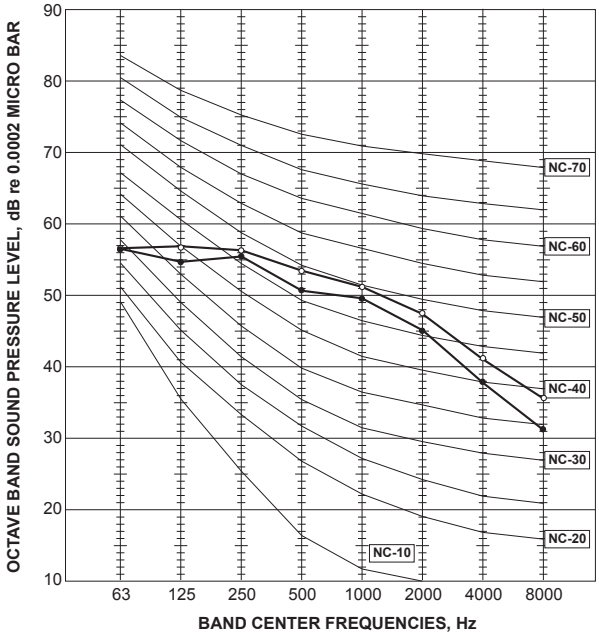
FUNCTION	SPL(dB(A))	LINE
COOLING	50	●—●
HEATING	51	○—○



MUZ-EF50VE

OUTDOOR UNIT

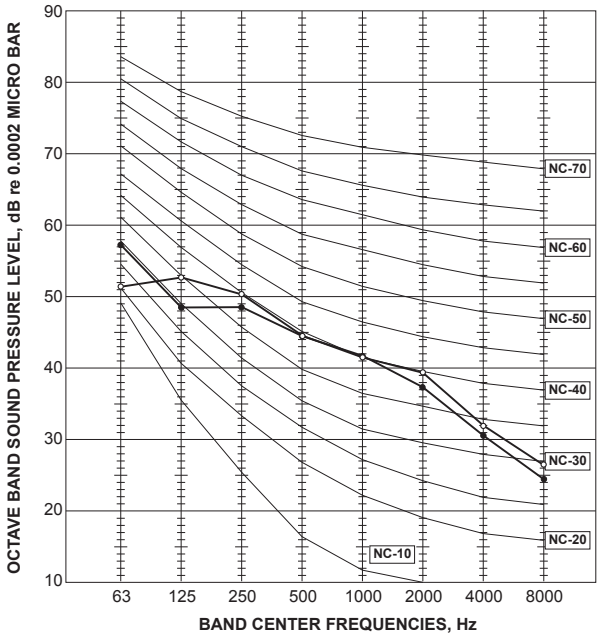
FUNCTION	SPL(dB(A))	LINE
COOLING	52	●—●
HEATING	52	○—○



MUZ-SF25VE MUZ-SF25VEH

OUTDOOR UNIT

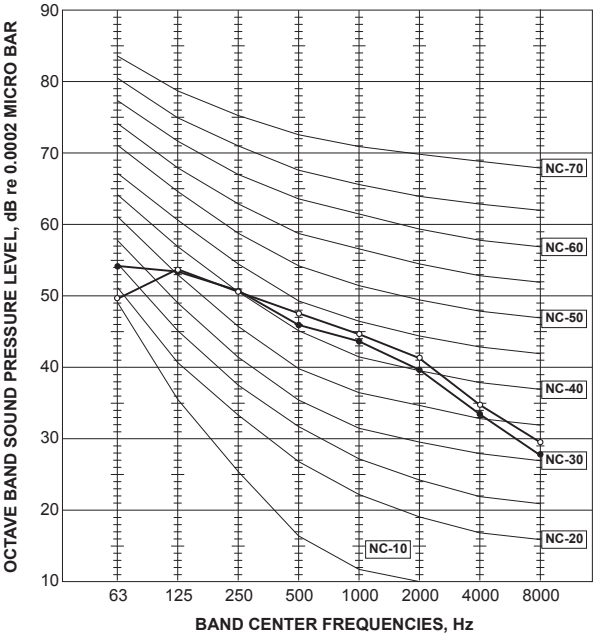
FUNCTION	SPL(dB(A))	LINE
COOLING	47	●—●
HEATING	48	○—○



MUZ-SF35VE MUZ-SF35VEH

OUTDOOR UNIT

FUNCTION	SPL(dB(A))	LINE
COOLING	49	●—●
HEATING	50	○—○

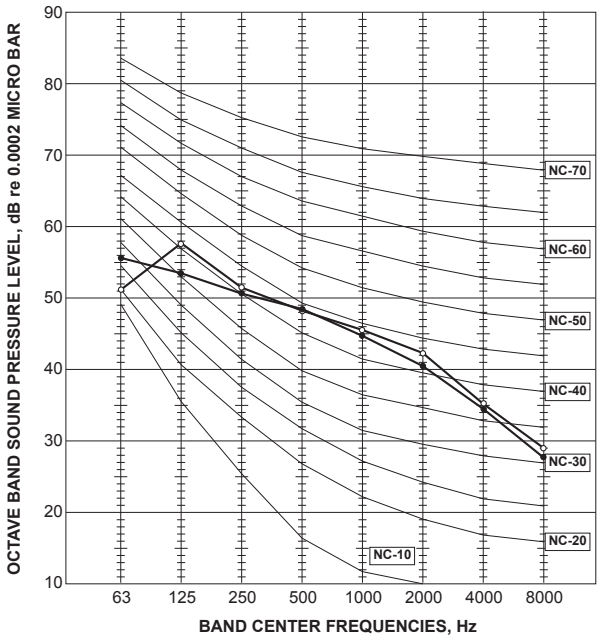


<Notes>
1) Sound data is taken when the system is running stably.
2) Relatively large noise could be heard transiently in the case 4-way valve, or LEV operates.

MUZ-SF42VE MUZ-SF42VEH

OUTDOOR UNIT

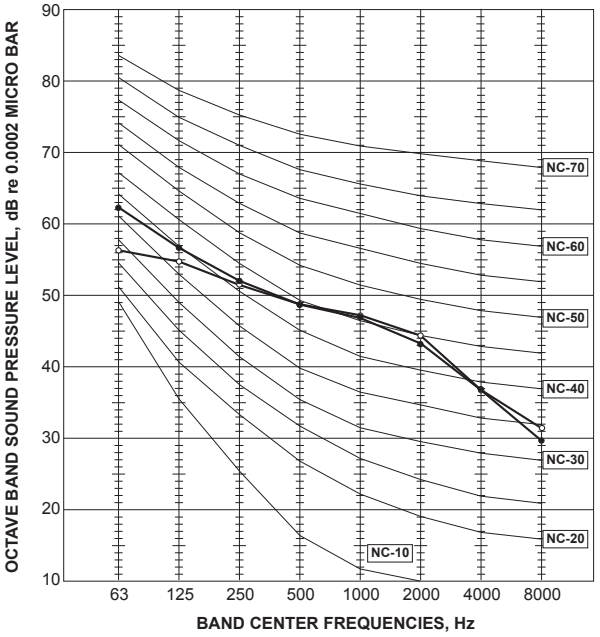
FUNCTION	SPL(dB(A))	LINE
COOLING	50	●—●
HEATING	51	○—○



MUZ-SF50VE MUZ-SF50VEH

OUTDOOR UNIT

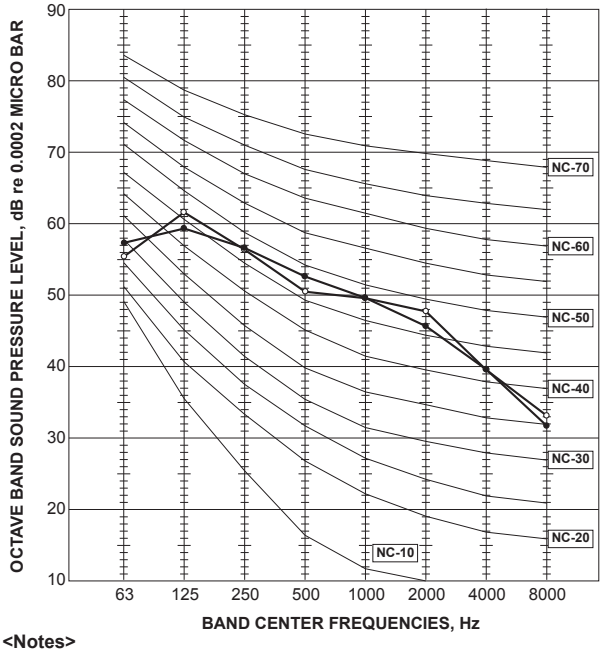
FUNCTION	SPL(dB(A))	LINE
COOLING	52	●—●
HEATING	52	○—○



MUZ-GF60VE

OUTDOOR UNIT

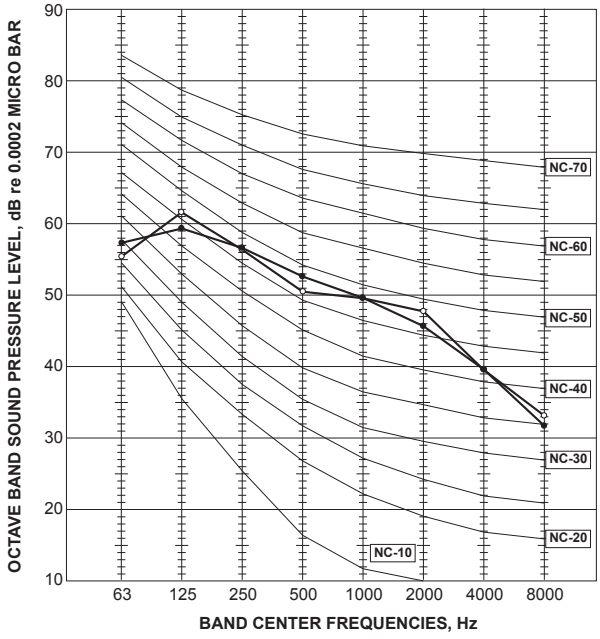
FUNCTION	SPL(dB(A))	LINE
COOLING	55	●—●
HEATING	55	○—○



MUZ-GF71VE

OUTDOOR UNIT

FUNCTION	SPL(dB(A))	LINE
COOLING	55	●—●
HEATING	55	○—○



<Notes>

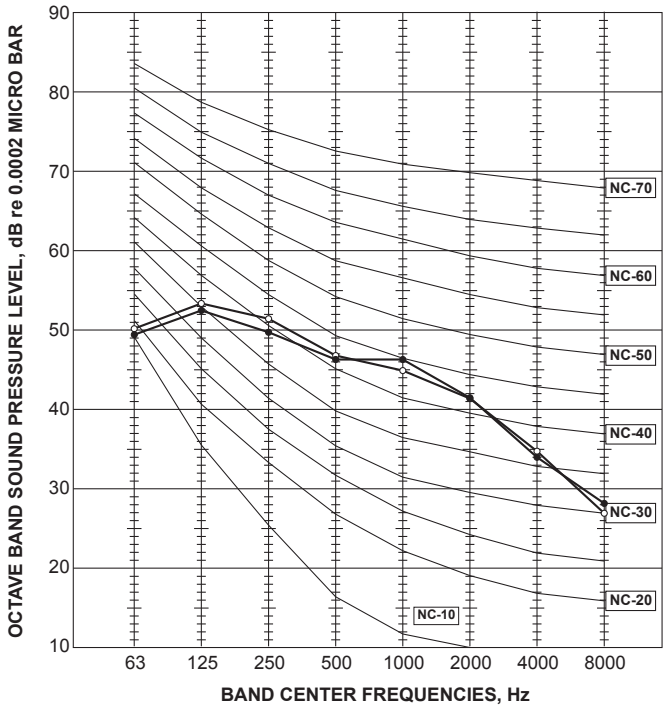
1) Sound data is taken when the system is running stably.

2) Relatively large noise could be heard transiently in the case 4-way valve, or LEV operates.

MUZ-DM25VA

OUTDOOR UNIT

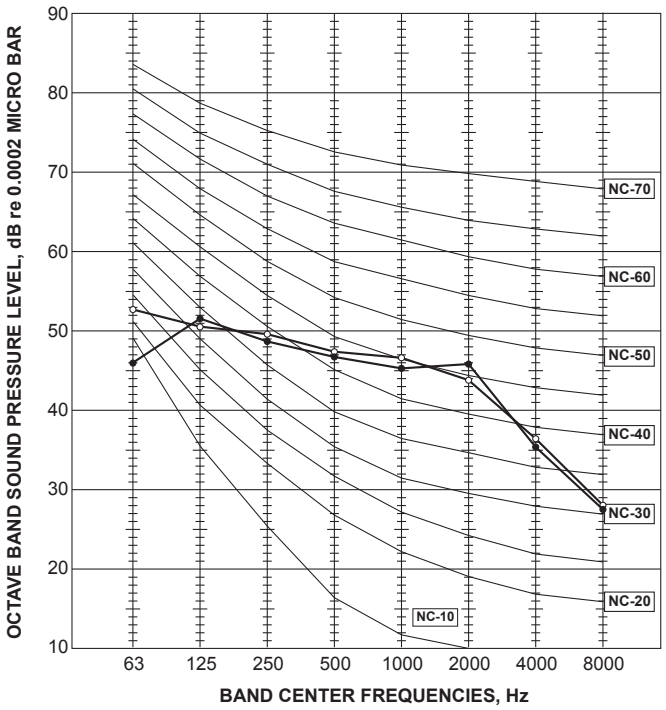
FUNCTION	SPL(dB(A))	LINE
COOLING	50	●—●
HEATING	50	○—○



MUZ-DM35VA

OUTDOOR UNIT

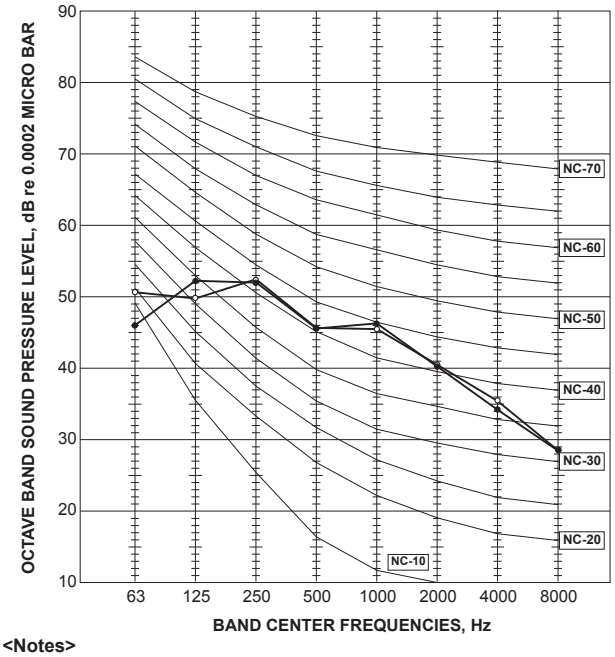
FUNCTION	SPL(dB(A))	LINE
COOLING	51	●—●
HEATING	51	○—○



MUZ-HJ25VA

OUTDOOR UNIT

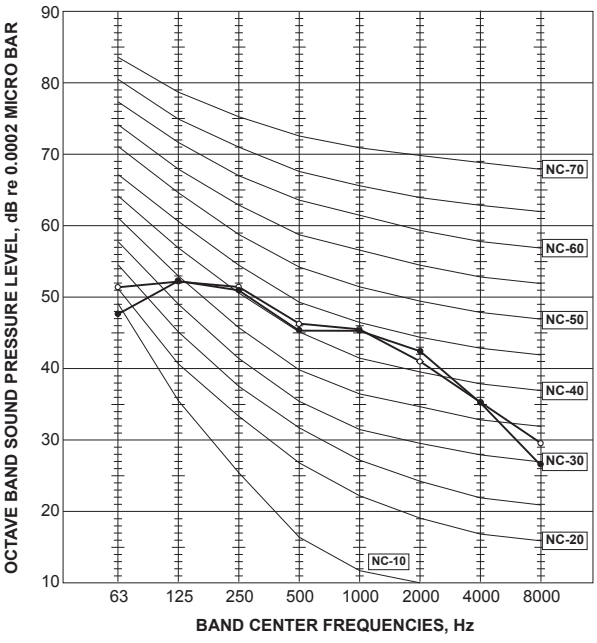
FUNCTION	SPL(dB(A))	LINE
COOLING	50	●—●
HEATING	50	○—○



MUZ-HJ35VA

OUTDOOR UNIT

FUNCTION	SPL(dB(A))	LINE
COOLING	50	●—●
HEATING	50	○—○



<Notes>

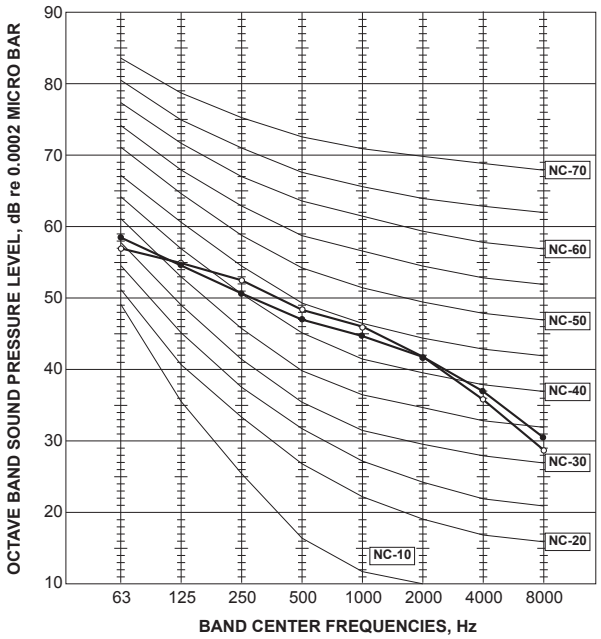
1) Sound data is taken when the system is running stably.

2) Relatively large noise could be heard transiently in the case 4-way valve, or LEV operates.

MUZ-HJ50VE

OUTDOOR UNIT

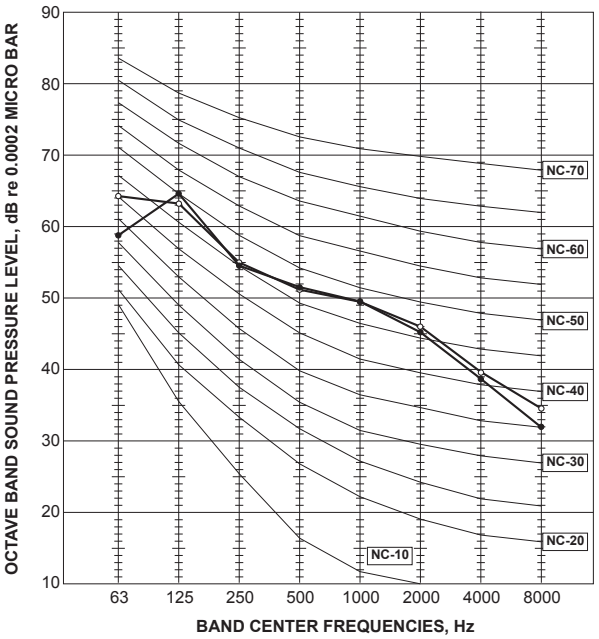
FUNCTION	SPL(dB(A))	LINE
COOLING	50	●——●
HEATING	51	○——○



MUZ-HJ60VA

OUTDOOR UNIT

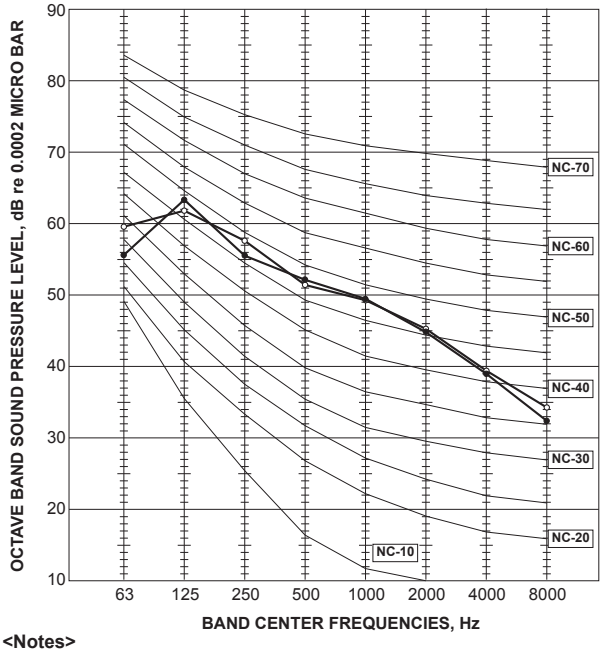
FUNCTION	SPL(dB(A))	LINE
COOLING	55	●——●
HEATING	55	○——○



MUZ-HJ71VA

OUTDOOR UNIT

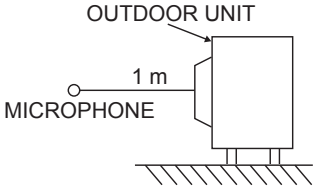
FUNCTION	SPL(dB(A))	LINE
COOLING	55	●——●
HEATING	55	○——○



Test conditions

Cooling: Dry-bulb temperature 35°C

Heating: Dry-bulb temperature 7°C Wet-bulb temperature 6°C



<Notes>

1) Sound data is taken when the system is running stably.

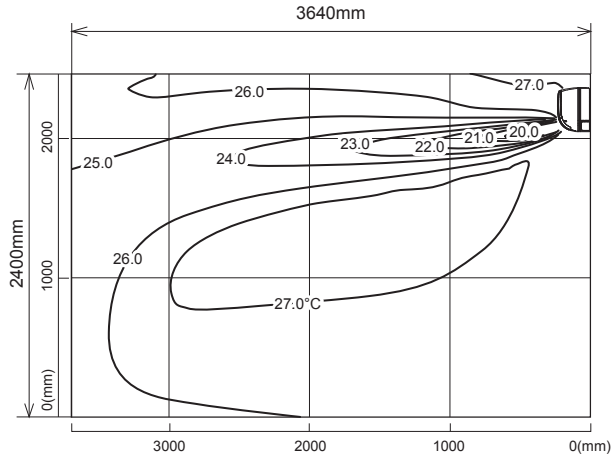
2) Relatively large noise could be heard transiently in the case 4-way valve, or LEV operates.

C.1.8 TEMPERATURE AND AIR FLOW DISTRIBUTIONS

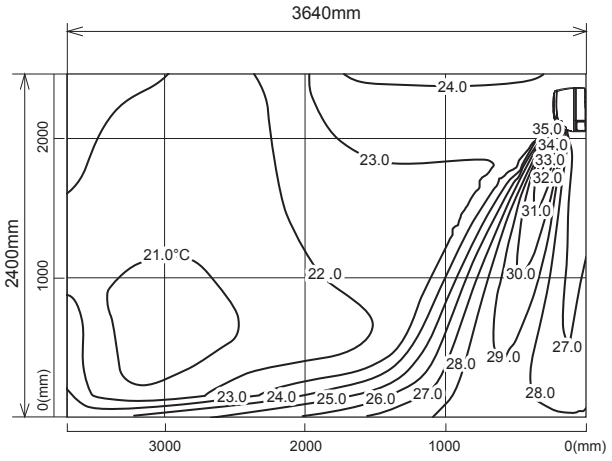
MSZ-FH25VE2

Temperature distribution

<Cooling mode>
Air volume: high
Air direction: auto (upward air flow)

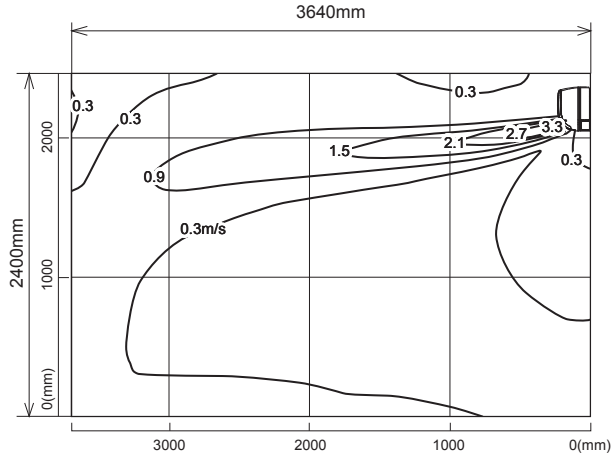


<Heating mode>
Air volume: high
Air direction: auto (downward air flow)

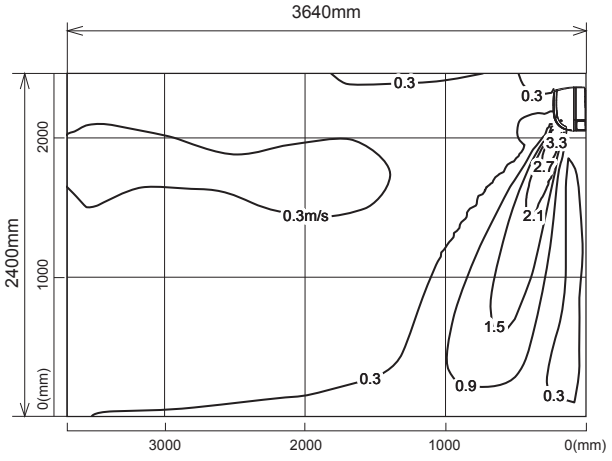


Airflow distribution

<Cooling mode>
Air volume: high
Air direction: auto (upward air flow)



<Heating mode>
Air volume: high
Air direction: auto (downward air flow)



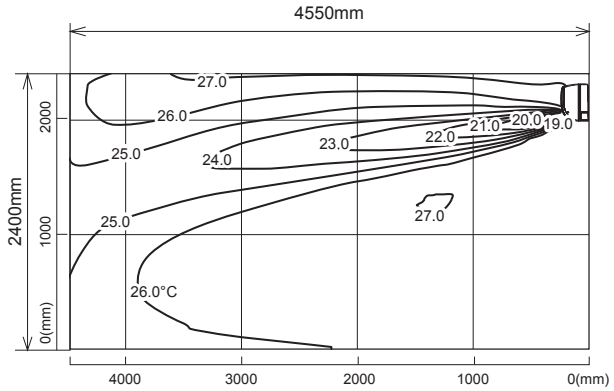
Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load,obstacles,etc.

MSZ-FH35VE2

Temperature distribution

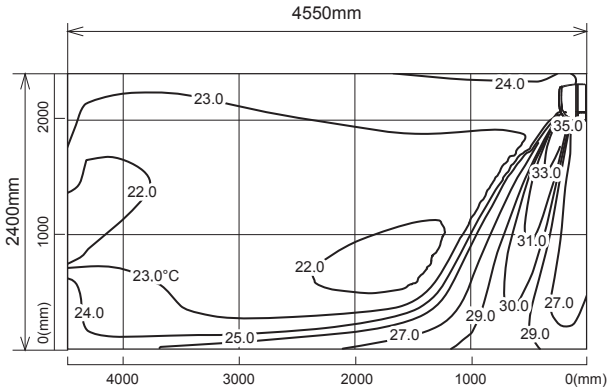
<Cooling mode>

Air volume: high
Air direction: auto (upward air flow)



<Heating mode>

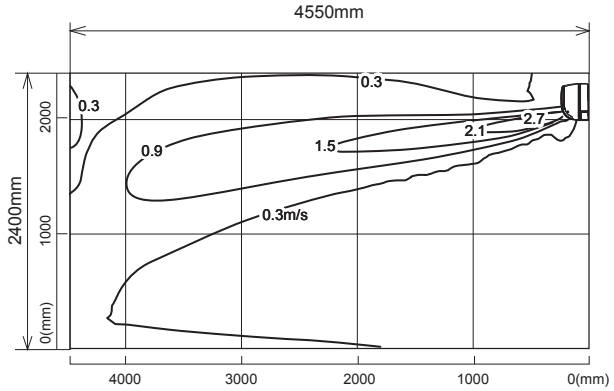
Air volume: high
Air direction: auto (downward air flow)



Airflow distribution

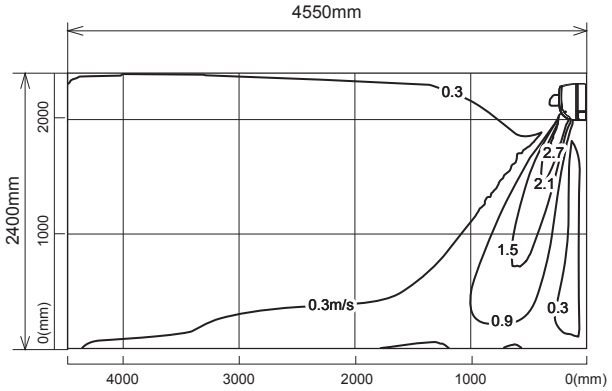
<Cooling mode>

Air volume: high
Air direction: auto (upward air flow)



<Heating mode>

Air volume: high
Air direction: auto (downward air flow)



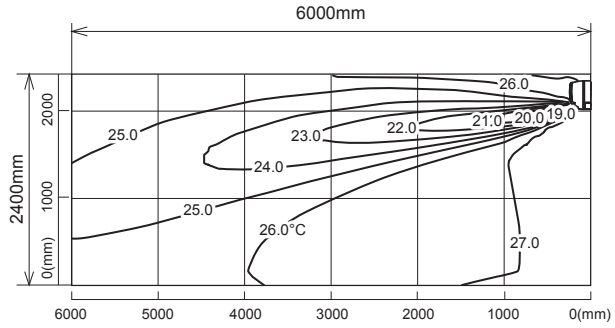
Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load,obstacles,etc.

MSZ-FH50VE2

Temperature distribution

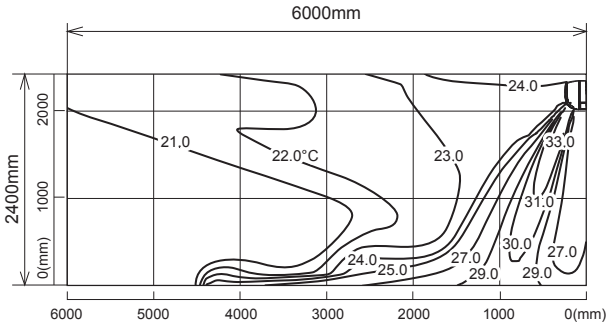
<Cooling mode>

Air volume: high
Air direction: auto (upward air flow)



<Heating mode>

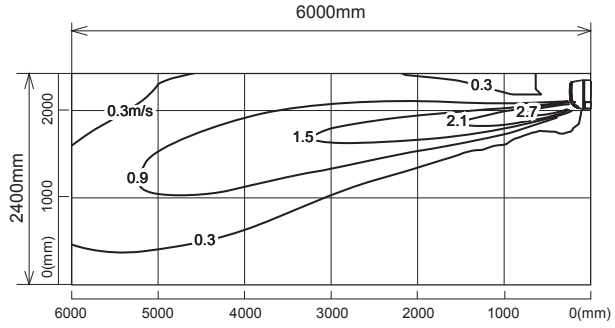
Air volume: high
Air direction: auto (downward air flow)



Airflow distribution

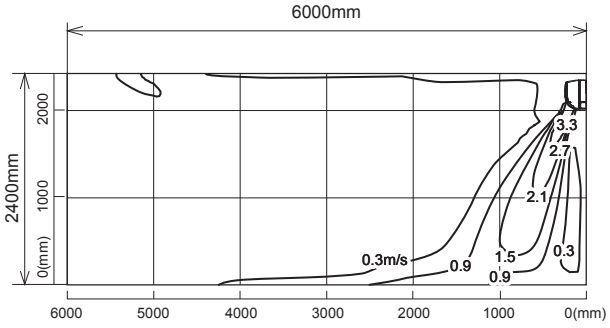
<Cooling mode>

Air volume: high
Air direction: auto (upward air flow)



<Heating mode>

Air volume: high
Air direction: auto (downward air flow)

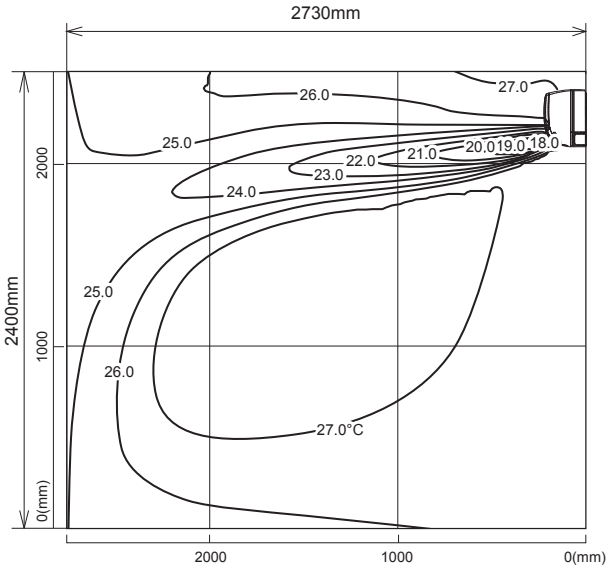


Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load,obstacles,etc.

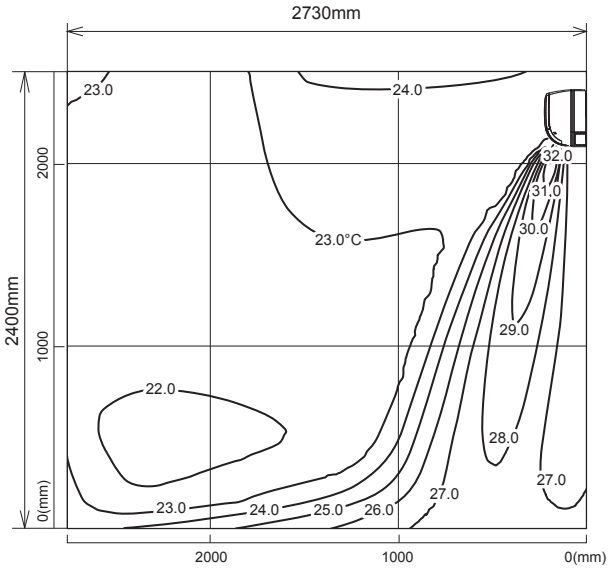
MSZ-EF18VE3W

Temperature distribution

<Cooling mode>
Air volume: high
Air direction: auto (upward air flow)

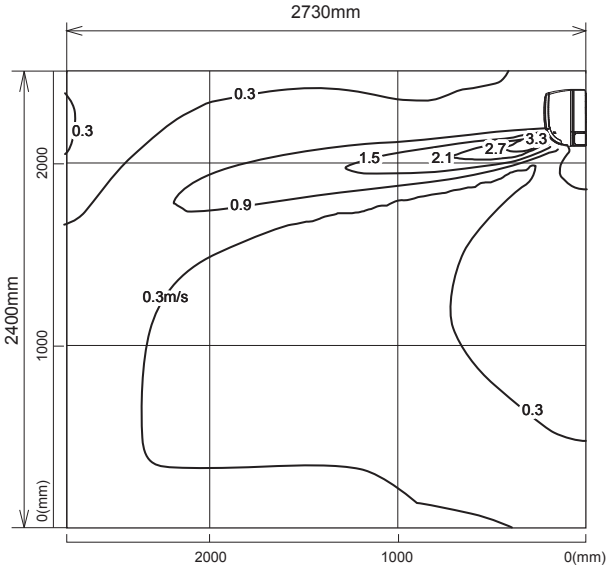


<Heating mode>
Air volume: high
Air direction: auto (downward air flow)

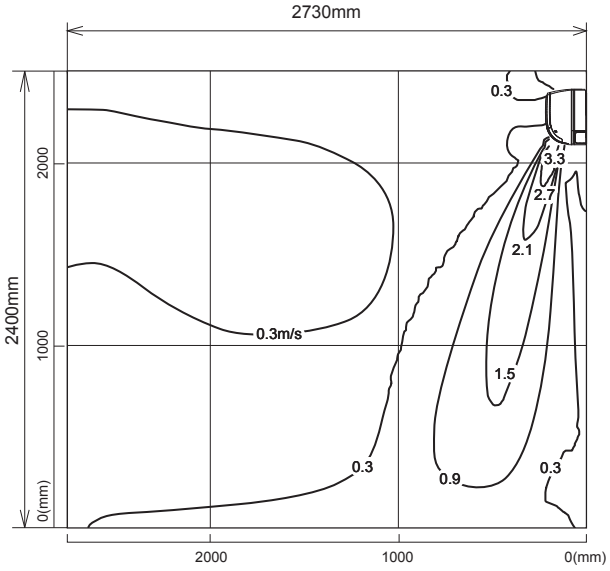


Airflow distribution

<Cooling mode>
Air volume: high
Air direction: auto (upward air flow)



<Heating mode>
Air volume: high
Air direction: auto (downward air flow)

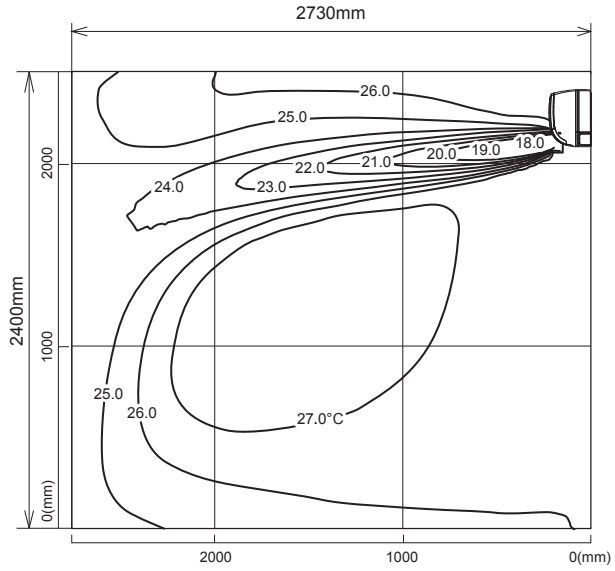


Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load,obstacles,etc.

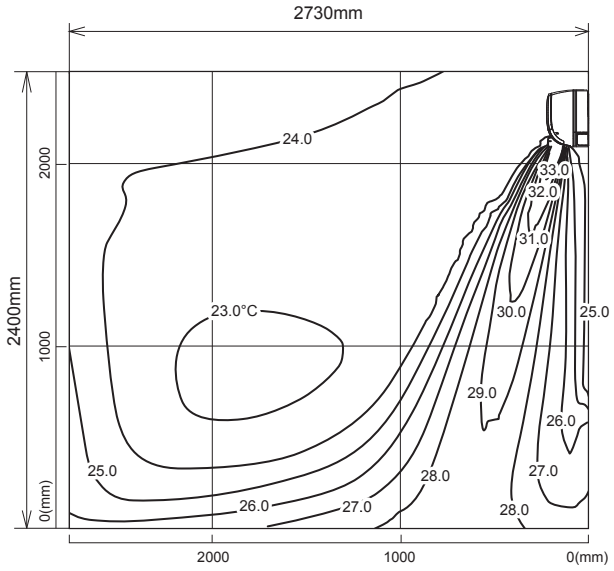
MSZ-EF22VE3W

Temperature distribution

<Cooling mode>
Air volume: high
Air direction: auto (upward air flow)

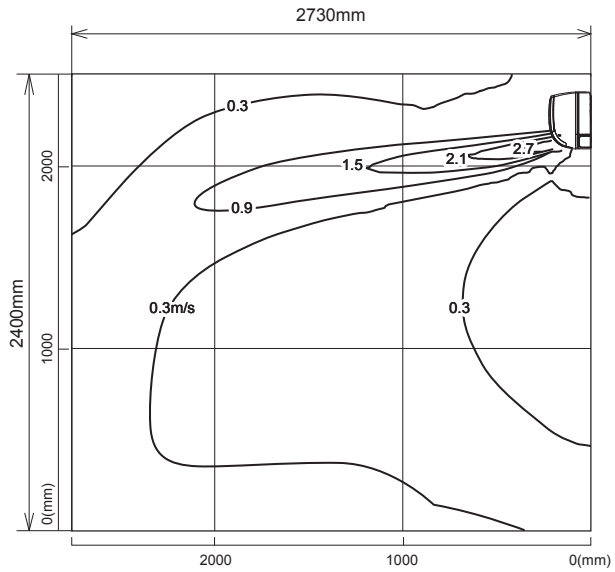


<Heating mode>
Air volume: high
Air direction: auto (downward air flow)

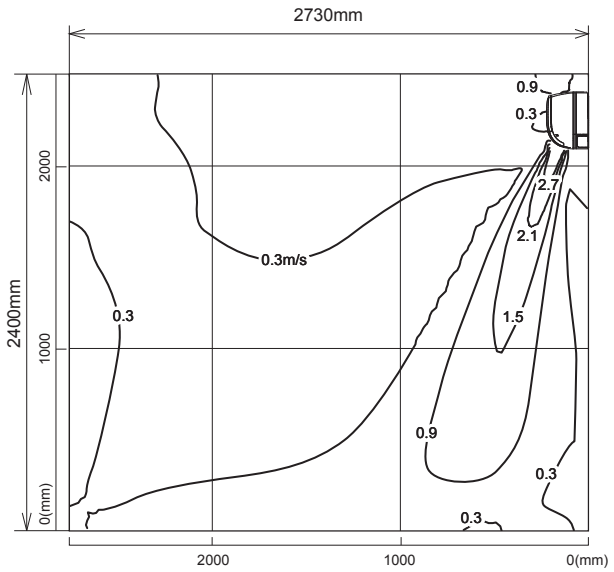


Airflow distribution

<Cooling mode>
Air volume: high
Air direction: auto (upward air flow)



<Heating mode>
Air volume: high
Air direction: auto (downward air flow)



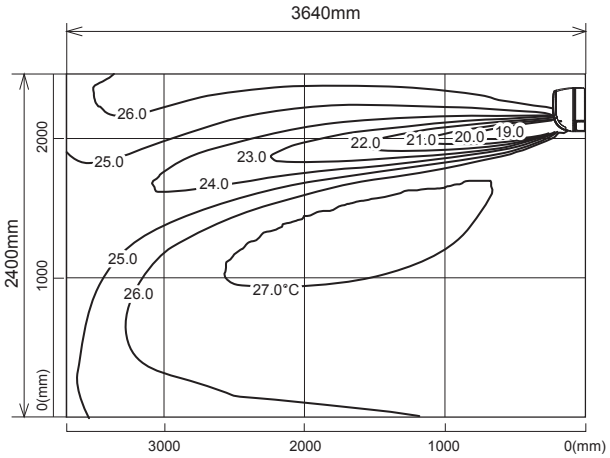
Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load,obstacles,etc.

MSZ-EF25VE3W

Temperature distribution

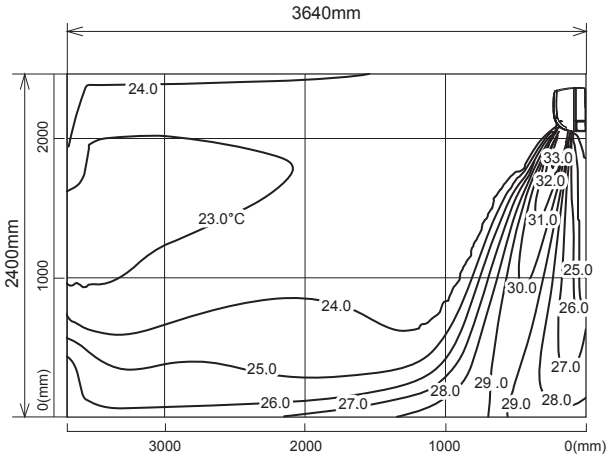
<Cooling mode>

Air volume: high
Air direction: auto (upward air flow)



<Heating mode>

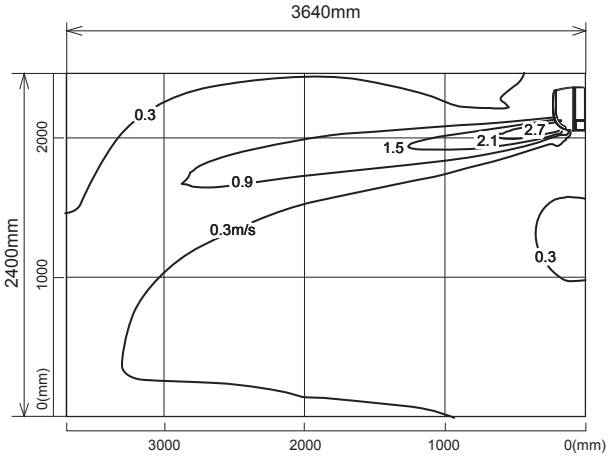
Air volume: high
Air direction: auto (downward air flow)



Airflow distribution

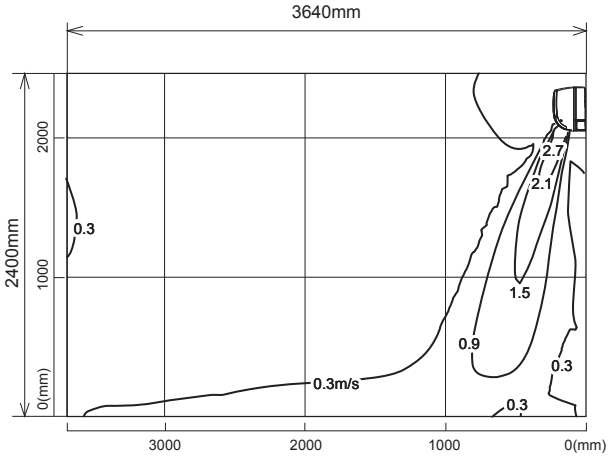
<Cooling mode>

Air volume: high
Air direction: auto (upward air flow)



<Heating mode>

Air volume: high
Air direction: auto (downward air flow)



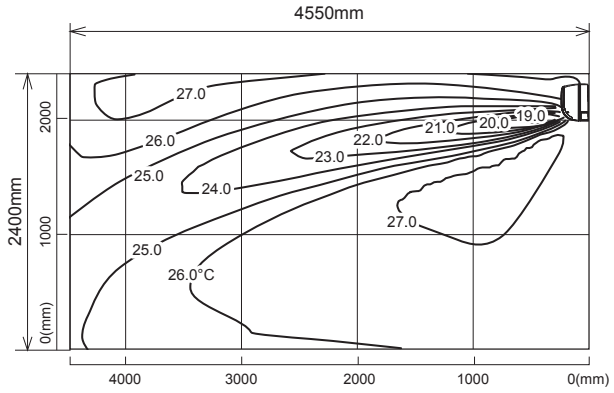
Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load,obstacles,etc.

MSZ-EF35VE3W

Temperature distribution

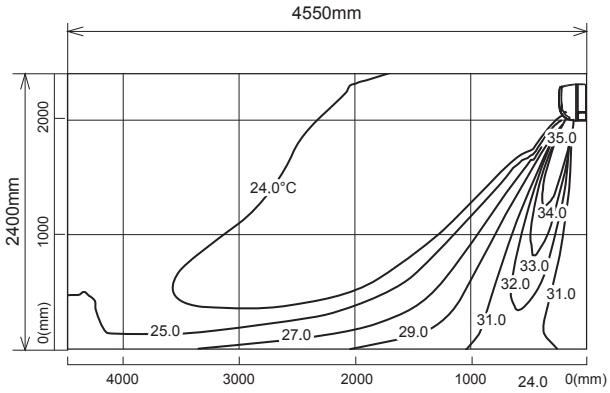
<Cooling mode>

Air volume: high
Air direction: auto (upward air flow)



<Heating mode>

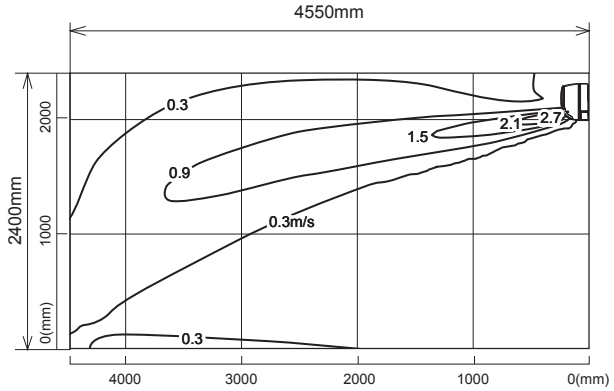
Air volume: high
Air direction: auto (downward air flow)



Airflow distribution

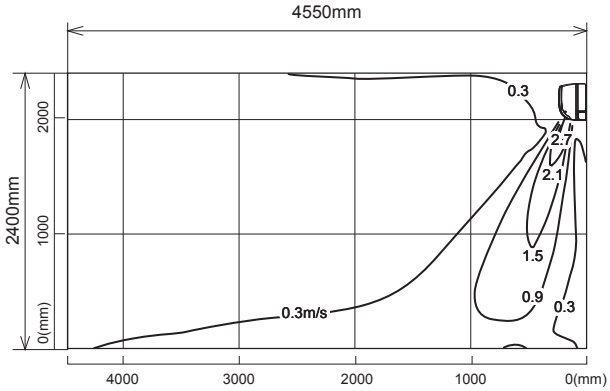
<Cooling mode>

Air volume: high
Air direction: auto (upward air flow)



<Heating mode>

Air volume: high
Air direction: auto (downward air flow)



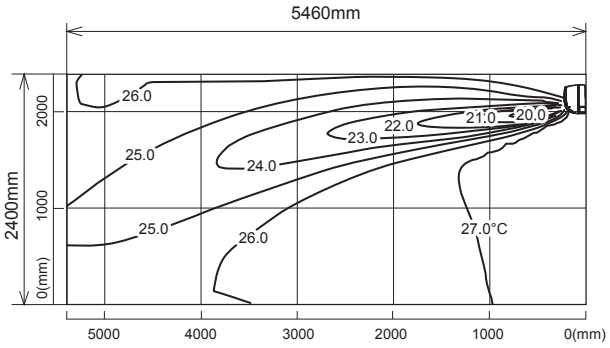
Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load,obstacles,etc.

MSZ-EF42VE3W

Temperature distribution

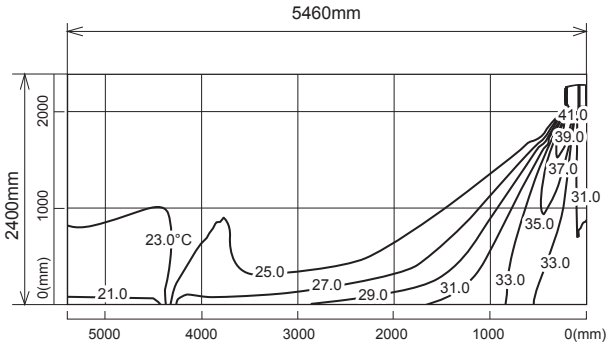
<Cooling mode>

Air volume: high
Air direction: auto (upward air flow)



<Heating mode>

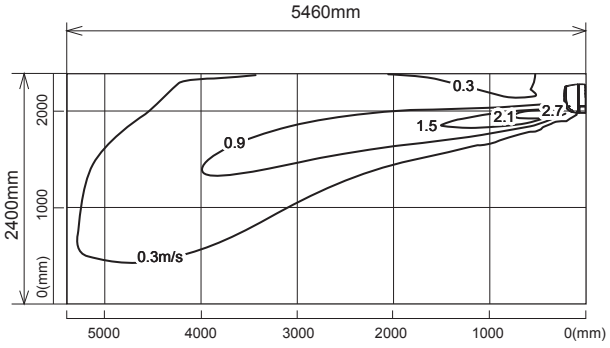
Air volume: high
Air direction: auto (downward air flow)



Airflow distribution

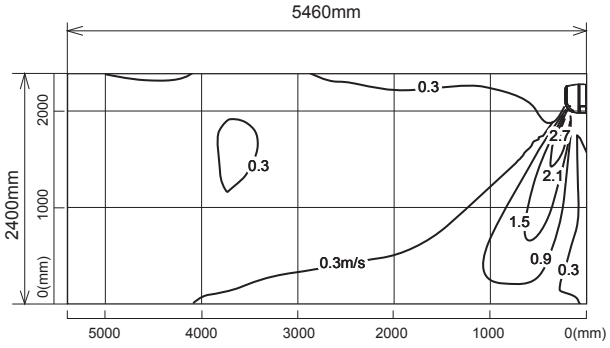
<Cooling mode>

Air volume: high
Air direction: auto (upward air flow)



<Heating mode>

Air volume: high
Air direction: auto (downward air flow)



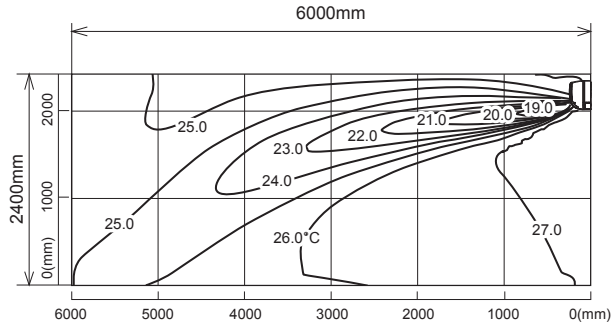
Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load,obstacles,etc.

MSZ-EF50VE3W

Temperature distribution

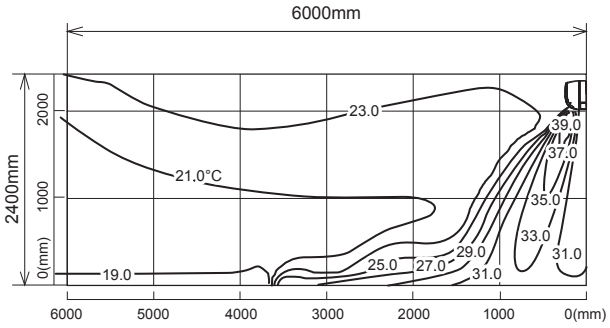
<Cooling mode>

Air volume: high
Air direction: auto (upward air flow)



<Heating mode>

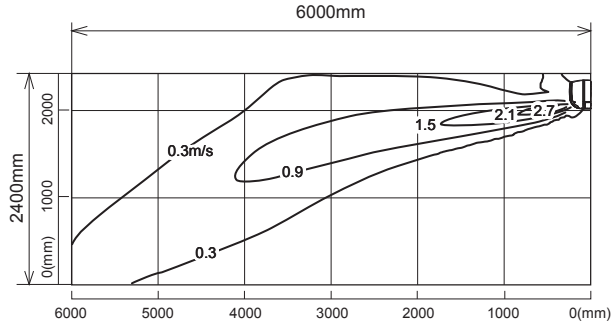
Air volume: high
Air direction: auto (downward air flow)



Airflow distribution

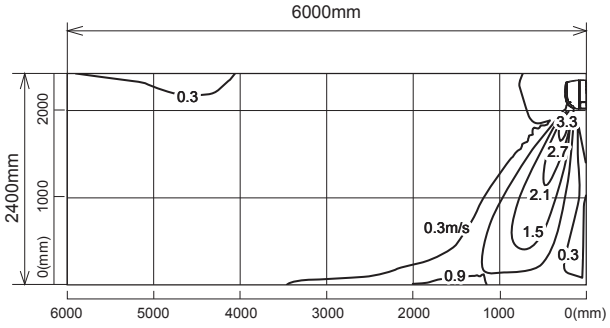
<Cooling mode>

Air volume: high
Air direction: auto (upward air flow)



<Heating mode>

Air volume: high
Air direction: auto (downward air flow)



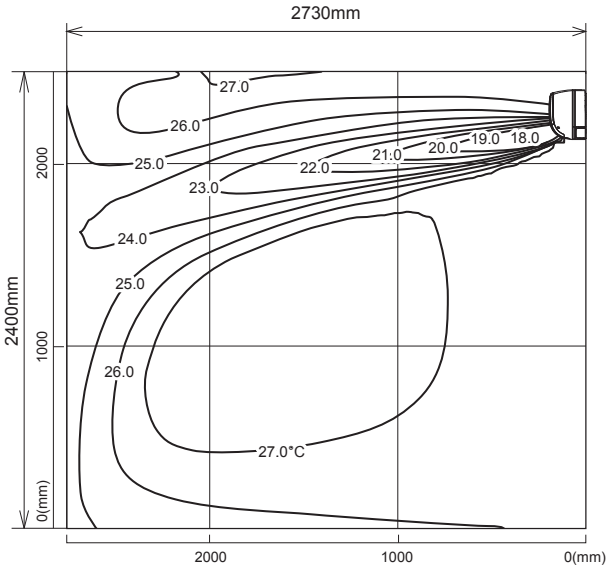
Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load,obstacles,etc.

MSZ-SF15VA

Temperature distribution

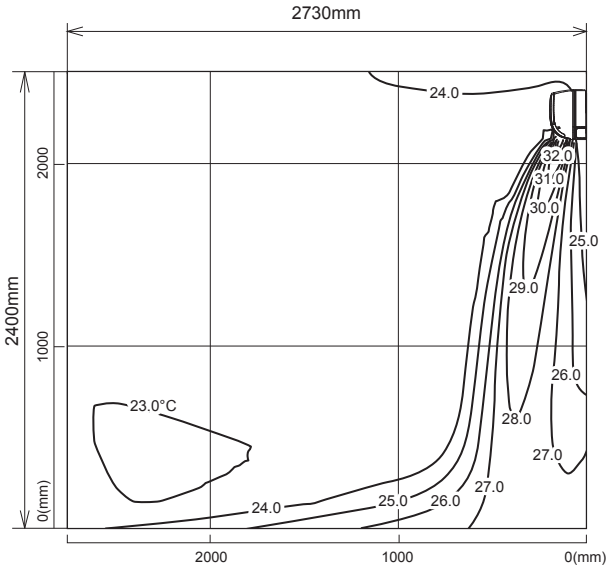
<Cooling mode>

Air volume: high
Air direction: auto (upward air flow)



<Heating mode>

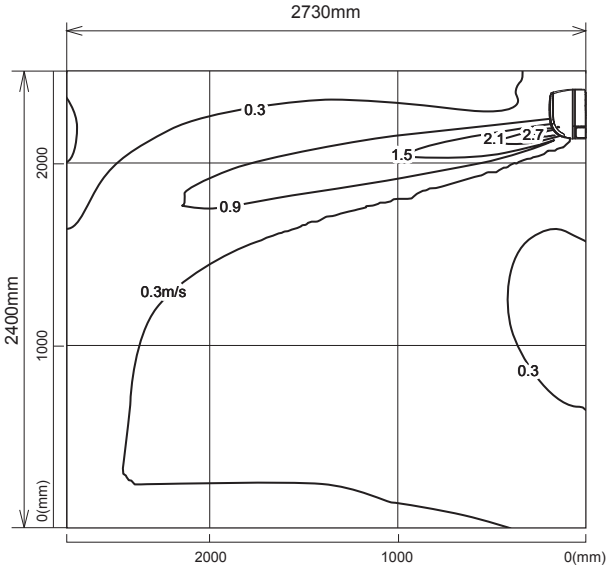
Air volume: high
Air direction: auto (downward air flow)



Airflow distribution

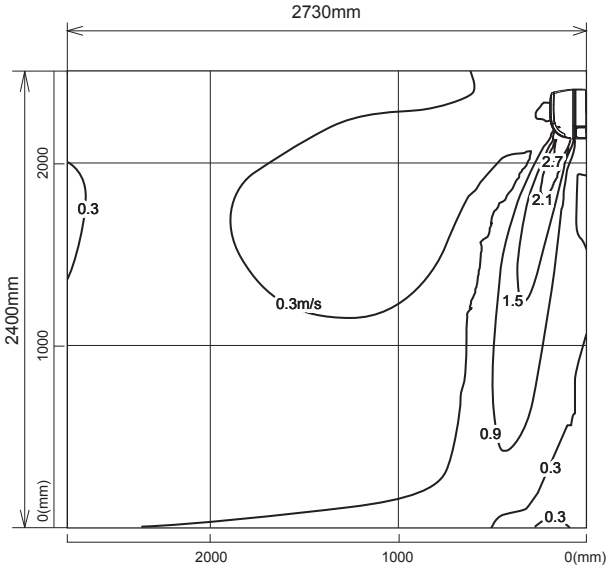
<Cooling mode>

Air volume: high
Air direction: auto (upward air flow)



<Heating mode>

Air volume: high
Air direction: auto (downward air flow)

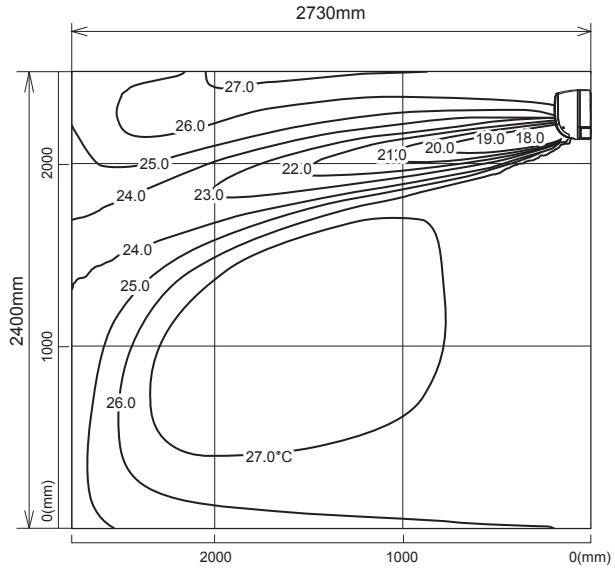


Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load,obstacles,etc.

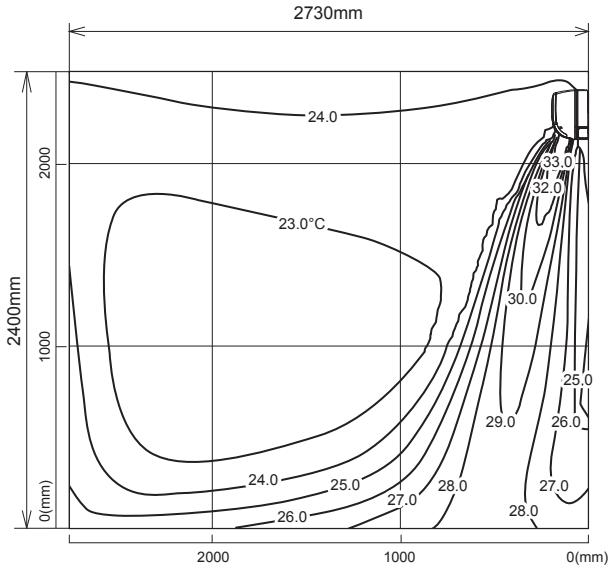
MSZ-SF20VA

Temperature distribution

<Cooling mode>
Air volume: high
Air direction: auto (upward air flow)

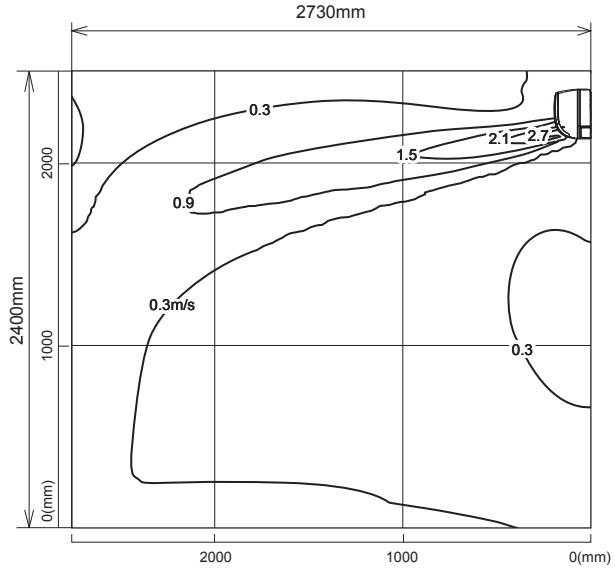


<Heating mode>
Air volume: high
Air direction: auto (downward air flow)

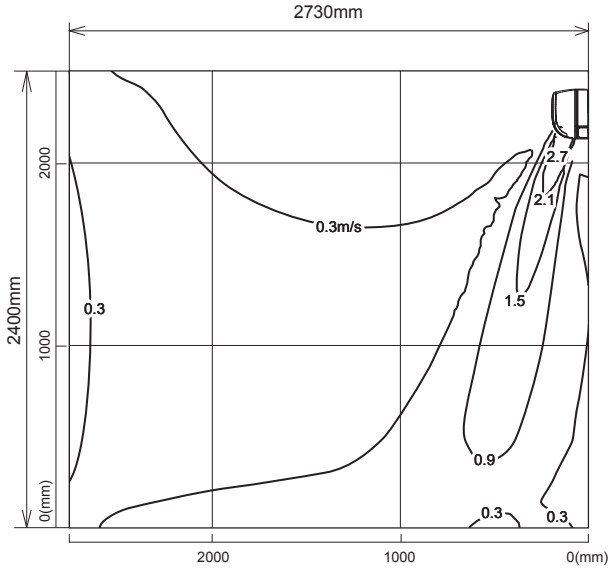


Airflow distribution

<Cooling mode>
Air volume: high
Air direction: auto (upward air flow)



<Heating mode>
Air volume: high
Air direction: auto (downward air flow)



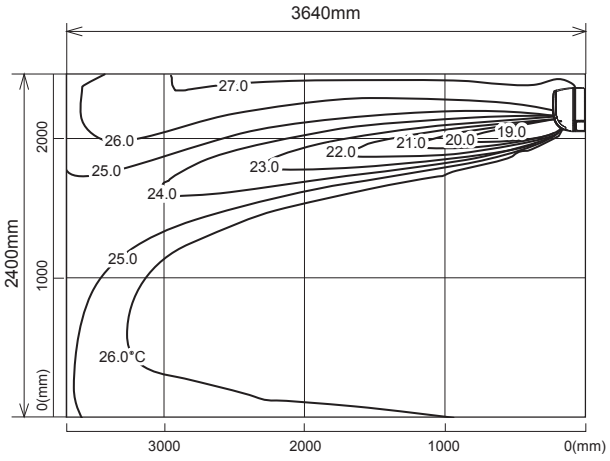
Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load,obstacles,etc.

MSZ-SF25VE3

Temperature distribution

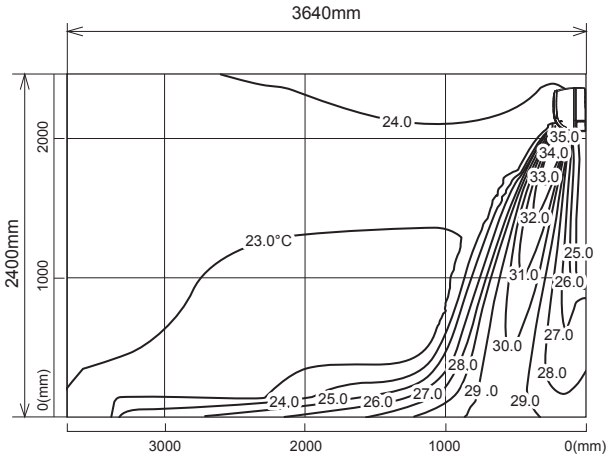
<Cooling mode>

Air volume: high
Air direction: auto (upward air flow)



<Heating mode>

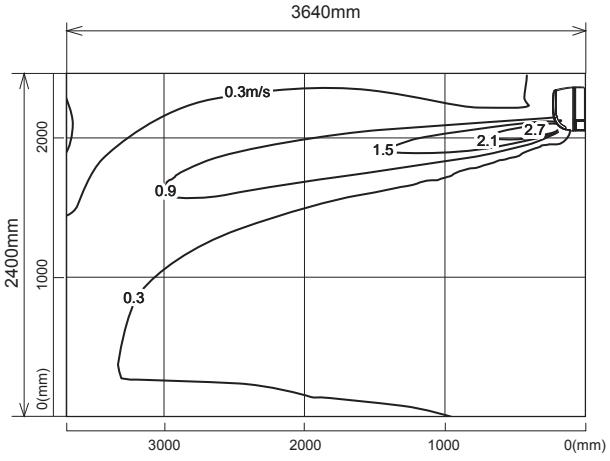
Air volume: high
Air direction: auto (downward air flow)



Airflow distribution

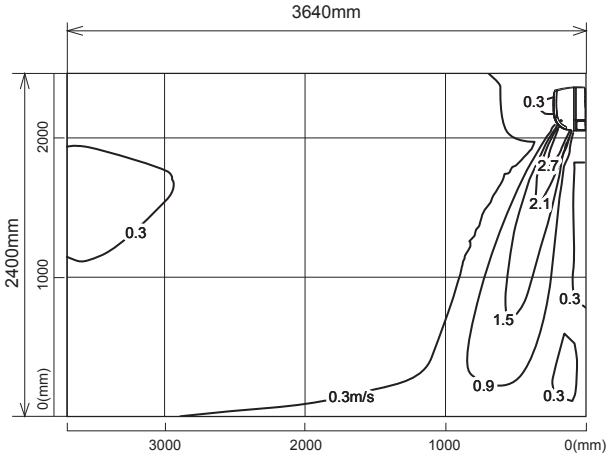
<Cooling mode>

Air volume: high
Air direction: auto (upward air flow)



<Heating mode>

Air volume: high
Air direction: auto (downward air flow)

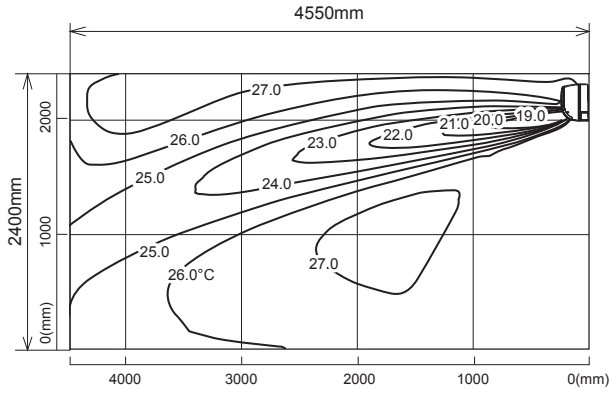


Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load,obstacles,etc.

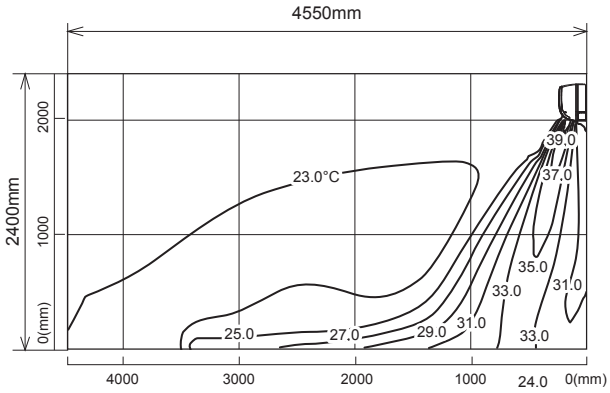
MSZ-SF35VE3

Temperature distribution

<Cooling mode>
Air volume: high
Air direction: auto (upward air flow)

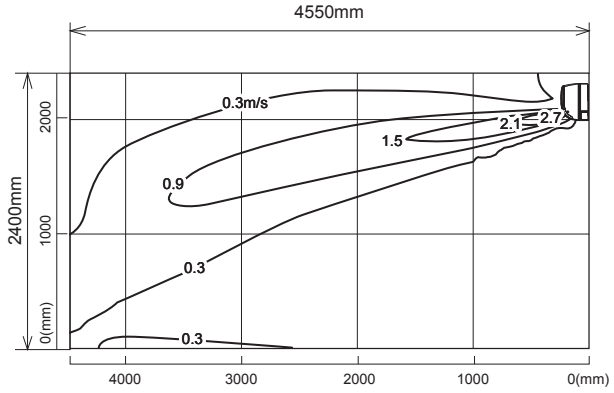


<Heating mode>
Air volume: high
Air direction: auto (downward air flow)

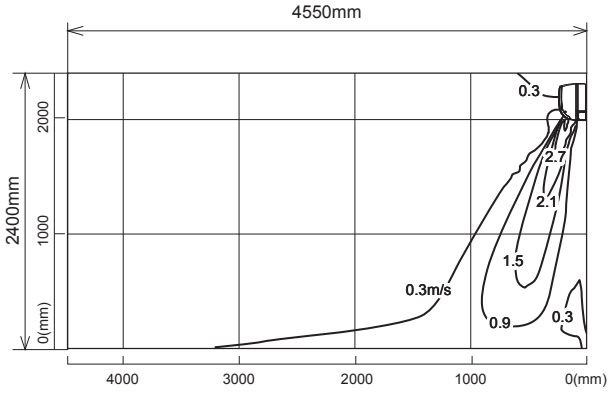


Airflow distribution

<Cooling mode>
Air volume: high
Air direction: auto (upward air flow)



<Heating mode>
Air volume: high
Air direction: auto (downward air flow)



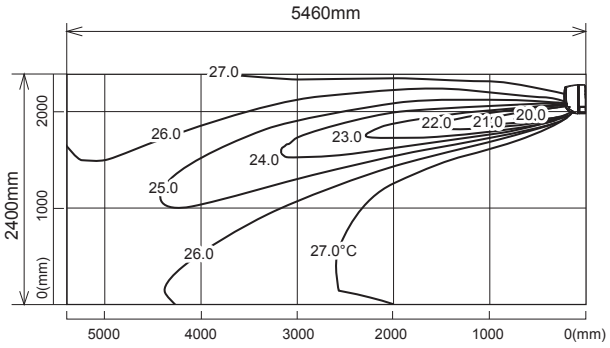
Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load,obstacles,etc.

MSZ-SF42VE3

Temperature distribution

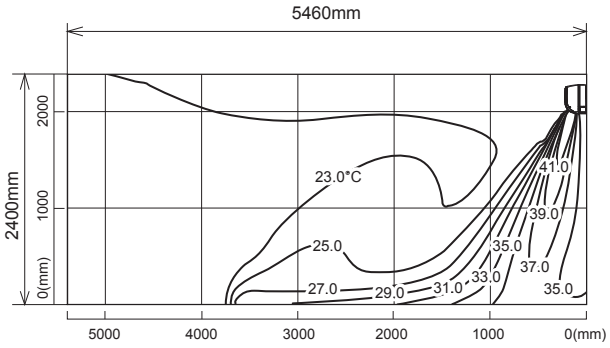
<Cooling mode>

Air volume: high
Air direction: auto (upward air flow)



<Heating mode>

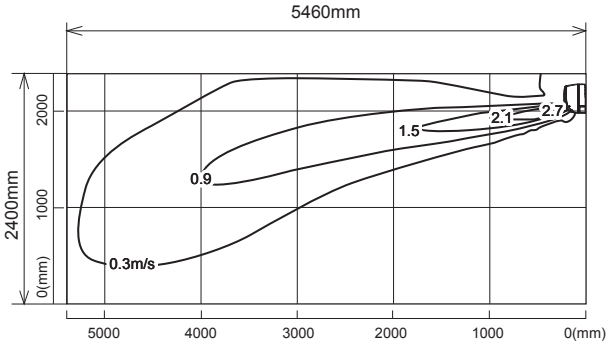
Air volume: high
Air direction: auto (downward air flow)



Airflow distribution

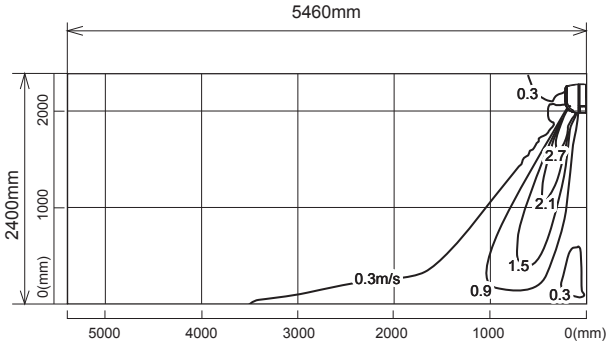
<Cooling mode>

Air volume: high
Air direction: auto (upward air flow)



<Heating mode>

Air volume: high
Air direction: auto (downward air flow)



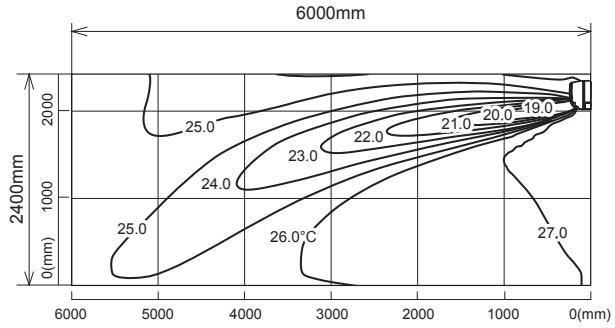
Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load,obstacles,etc.

MSZ-SF50VE3

Temperature distribution

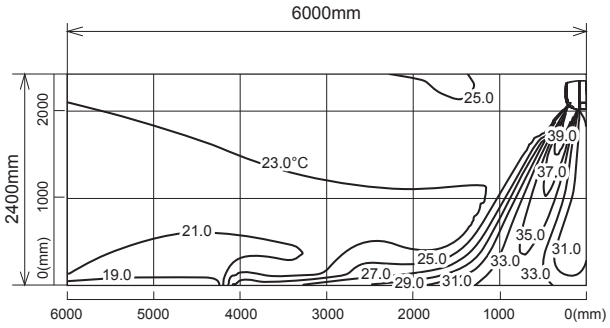
<Cooling mode>

Air volume: high
Air direction: auto (upward air flow)



<Heating mode>

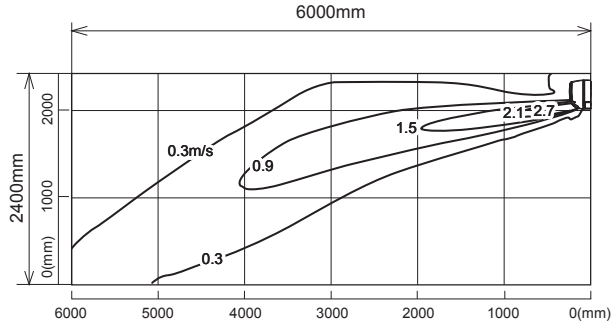
Air volume: high
Air direction: auto (downward air flow)



Airflow distribution

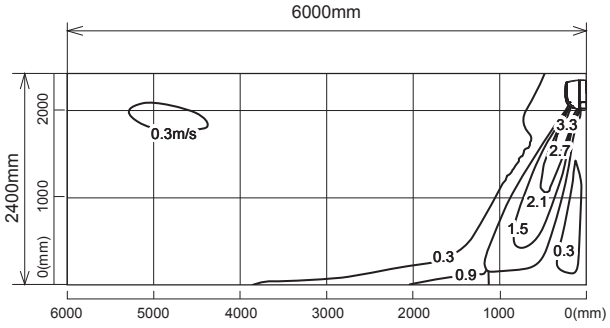
<Cooling mode>

Air volume: high
Air direction: auto (upward air flow)



<Heating mode>

Air volume: high
Air direction: auto (downward air flow)



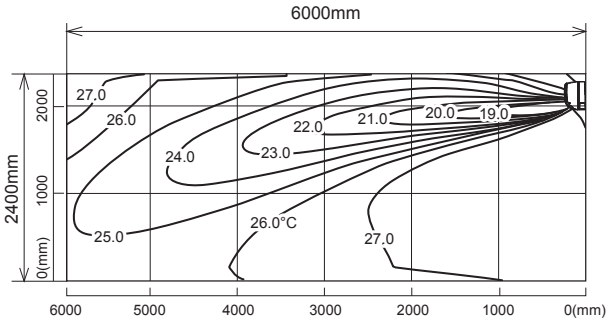
Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load,obstacles,etc.

MSZ-GF60VE2

Temperature distribution

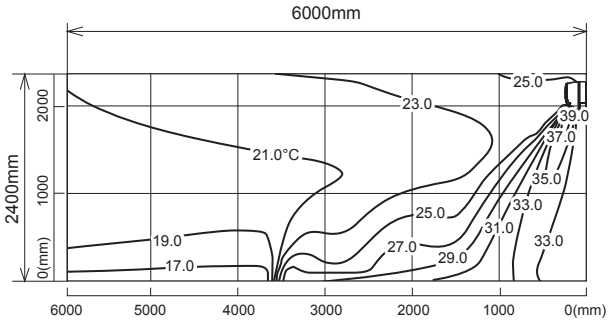
<Cooling mode>

Air volume: high
Air direction: auto (upward air flow)



<Heating mode>

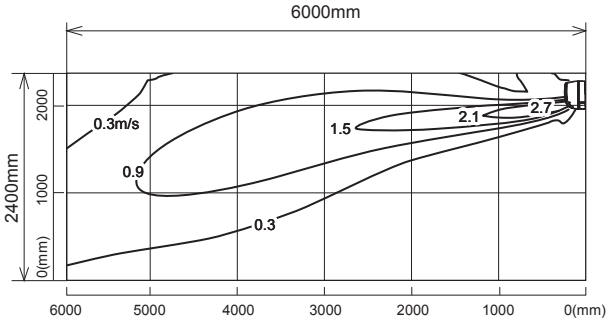
Air volume: high
Air direction: auto (downward air flow)



Airflow distribution

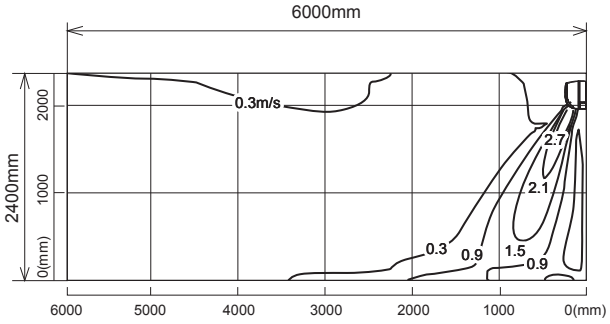
<Cooling mode>

Air volume: high
Air direction: auto (upward air flow)



<Heating mode>

Air volume: high
Air direction: auto (downward air flow)

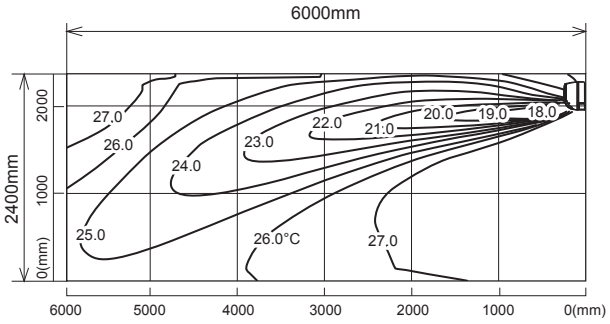


Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load,obstacles,etc.

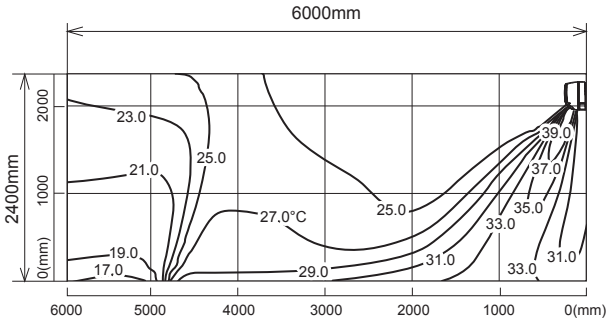
MSZ-GF71VE2

Temperature distribution

<Cooling mode>
Air volume: high
Air direction: auto (upward air flow)

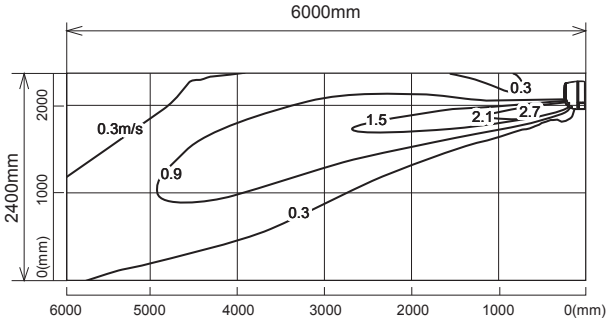


<Heating mode>
Air volume: high
Air direction: auto (downward air flow)

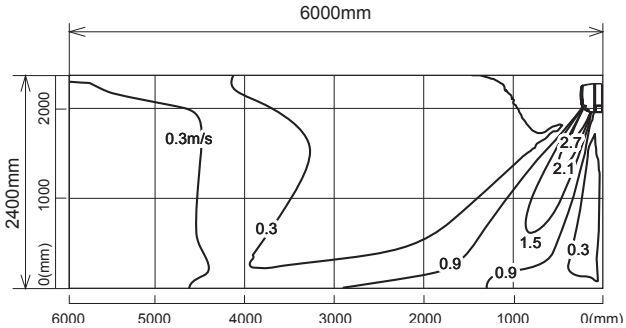


Airflow distribution

<Cooling mode>
Air volume: high
Air direction: auto (upward air flow)



<Heating mode>
Air volume: high
Air direction: auto (downward air flow)



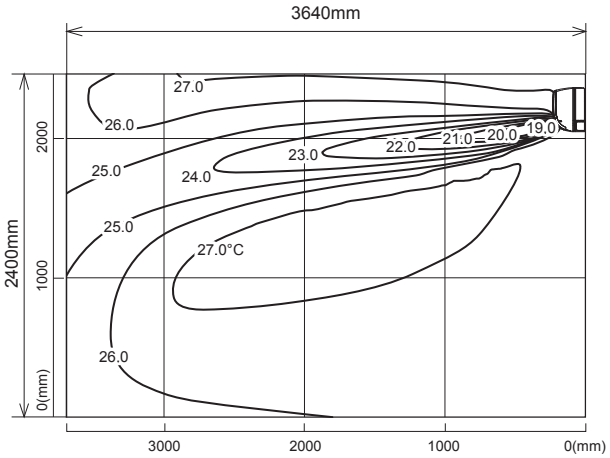
Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load,obstacles,etc.

MSZ-DM25VA

Temperature distribution

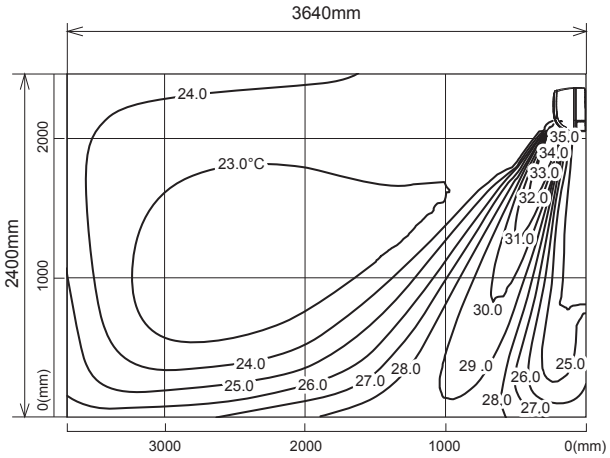
<Cooling mode>

Air volume: high
Air direction: auto (upward air flow)



<Heating mode>

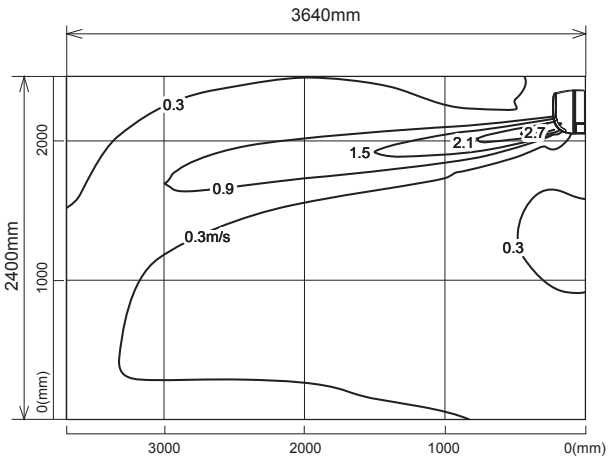
Air volume: high
Air direction: auto (downward air flow)



Airflow distribution

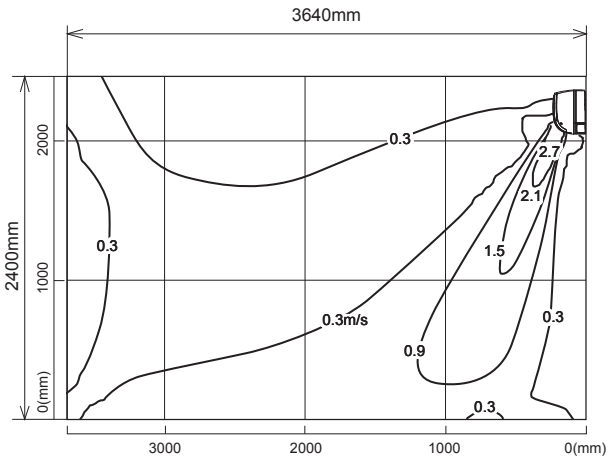
<Cooling mode>

Air volume: high
Air direction: auto (upward air flow)



<Heating mode>

Air volume: high
Air direction: auto (downward air flow)



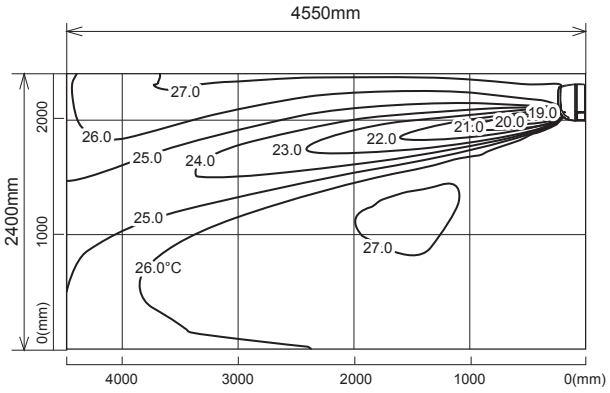
Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load,obstacles,etc.

MSZ-DM35VA

Temperature distribution

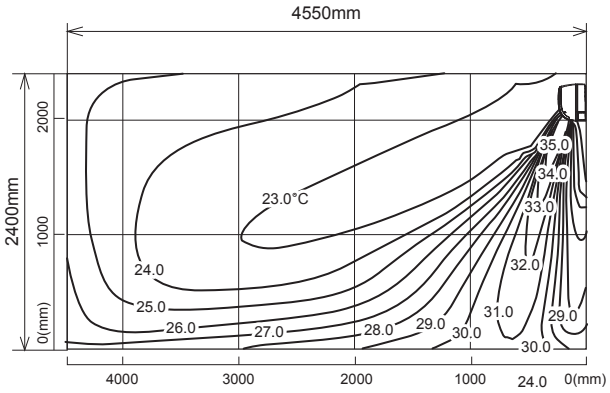
<Cooling mode>

Air volume: high
Air direction: auto (upward air flow)



<Heating mode>

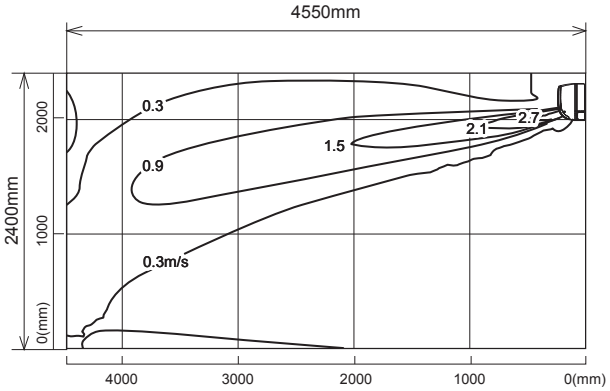
Air volume: high
Air direction: auto (downward air flow)



Airflow distribution

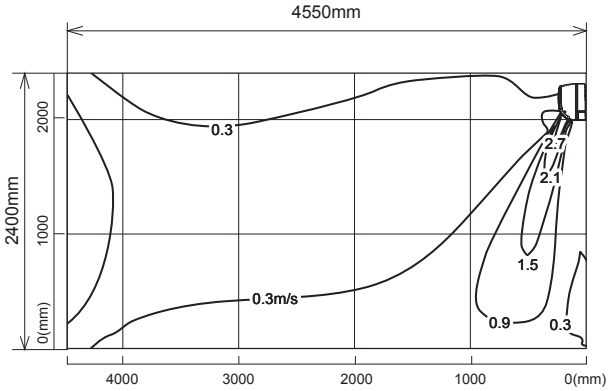
<Cooling mode>

Air volume: high
Air direction: auto (upward air flow)



<Heating mode>

Air volume: high
Air direction: auto (downward air flow)



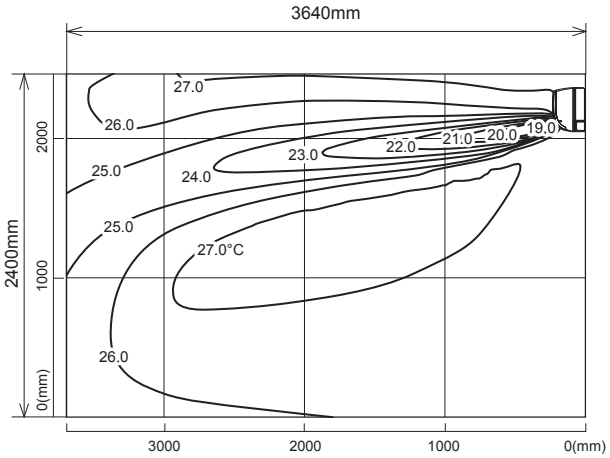
Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load,obstacles,etc.

MSZ-HJ25VA

Temperature distribution

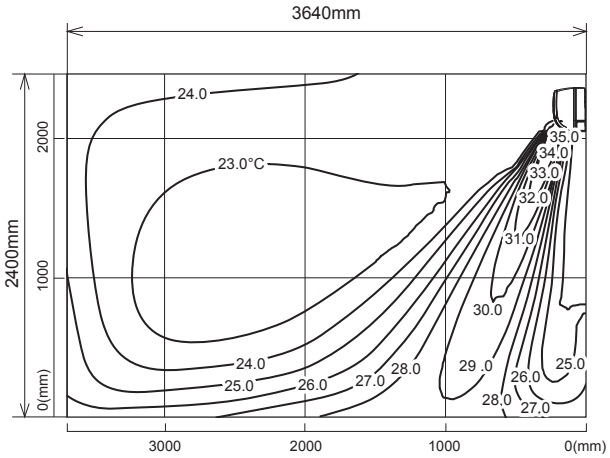
<Cooling mode>

Air volume: high
Air direction: auto (upward air flow)



<Heating mode>

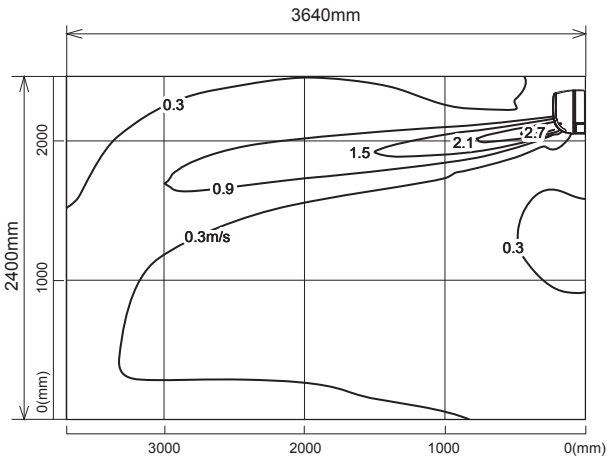
Air volume: high
Air direction: auto (downward air flow)



Airflow distribution

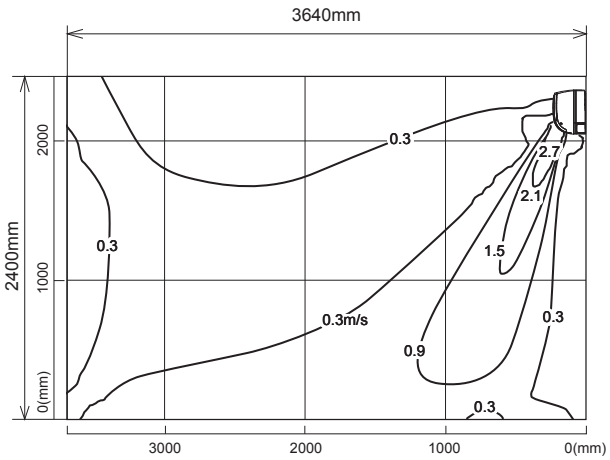
<Cooling mode>

Air volume: high
Air direction: auto (upward air flow)



<Heating mode>

Air volume: high
Air direction: auto (downward air flow)



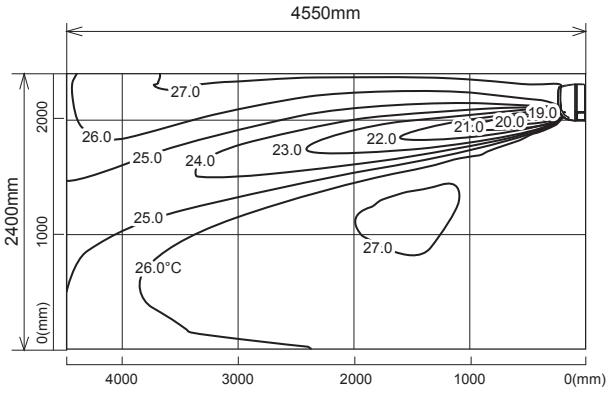
Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load,obstacles,etc.

MSZ-HJ35VA

Temperature distribution

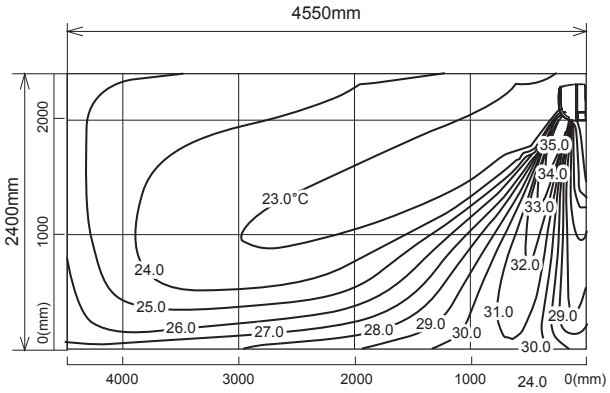
<Cooling mode>

Air volume: high
Air direction: auto (upward air flow)



<Heating mode>

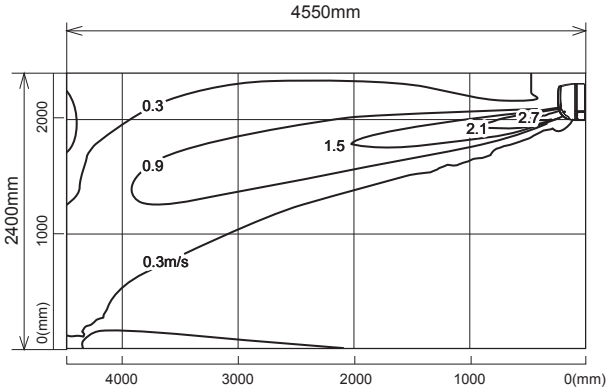
Air volume: high
Air direction: auto (downward air flow)



Airflow distribution

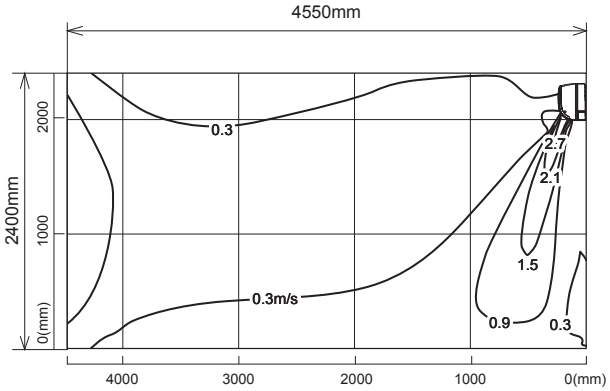
<Cooling mode>

Air volume: high
Air direction: auto (upward air flow)



<Heating mode>

Air volume: high
Air direction: auto (downward air flow)



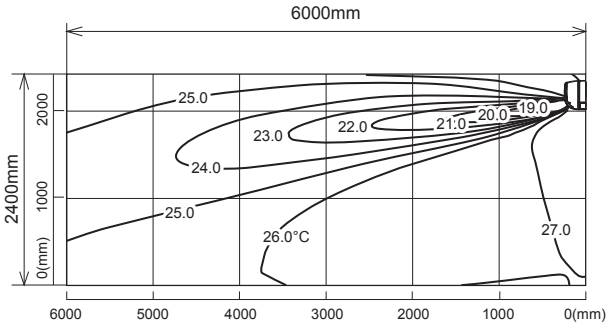
Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load,obstacles,etc.

MSZ-HJ50VA

Temperature distribution

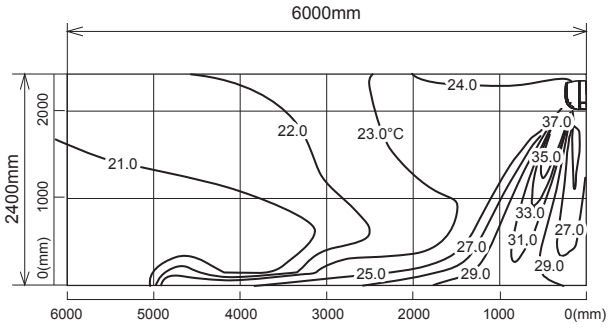
<Cooling mode>

Air volume: high
Air direction: auto (upward air flow)



<Heating mode>

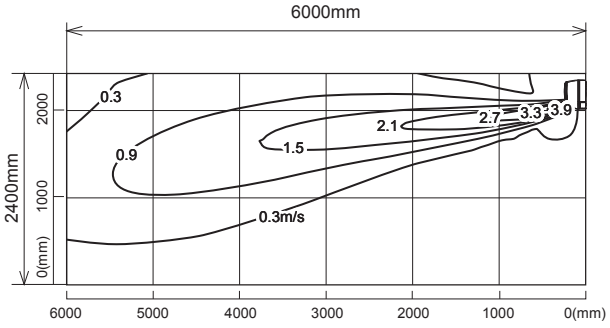
Air volume: high
Air direction: auto (downward air flow)



Airflow distribution

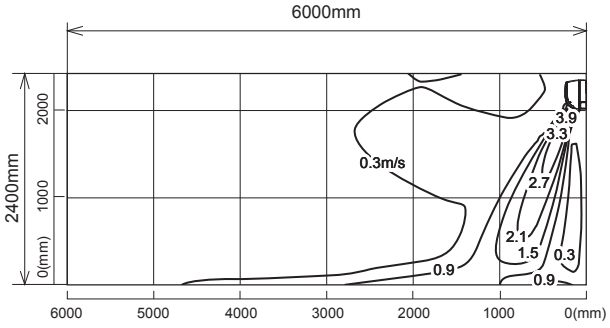
<Cooling mode>

Air volume: high
Air direction: auto (upward air flow)



<Heating mode>

Air volume: high
Air direction: auto (downward air flow)



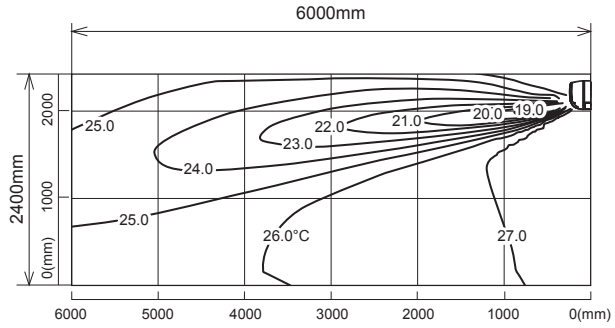
Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load,obstacles,etc.

MSZ-HJ60VA

Temperature distribution

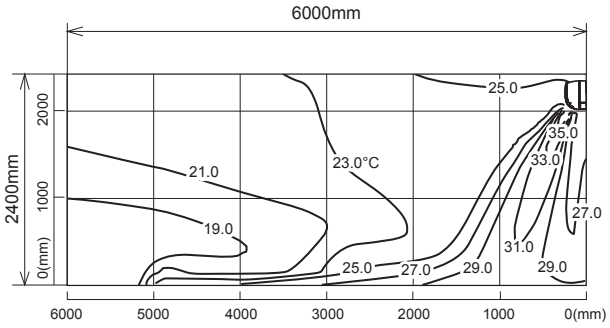
<Cooling mode>

Air volume: high
Air direction: auto (upward air flow)



<Heating mode>

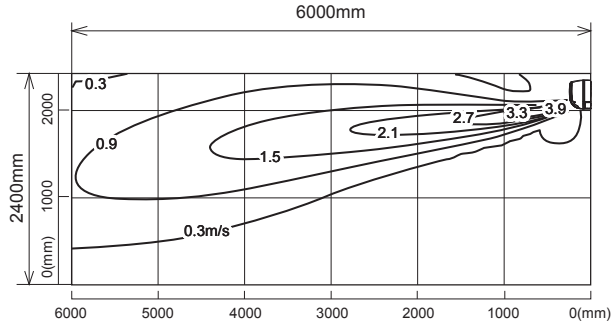
Air volume: high
Air direction: auto (downward air flow)



Airflow distribution

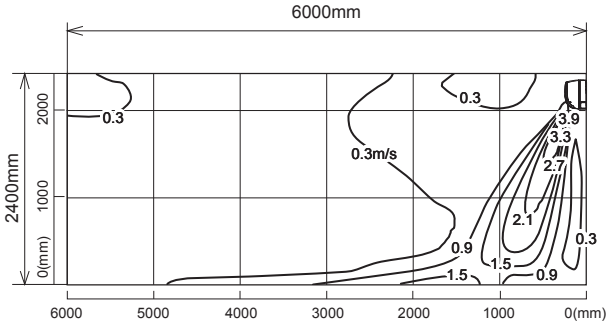
<Cooling mode>

Air volume: high
Air direction: auto (upward air flow)



<Heating mode>

Air volume: high
Air direction: auto (downward air flow)



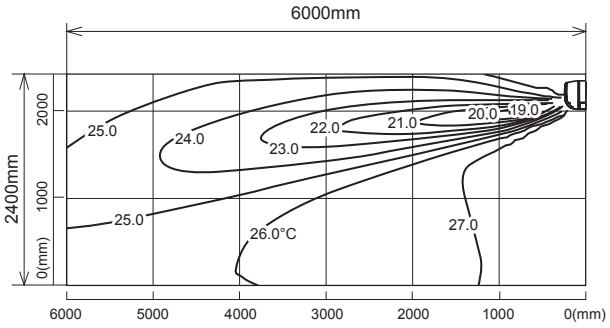
Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load,obstacles,etc.

MSZ-HJ71VA

Temperature distribution

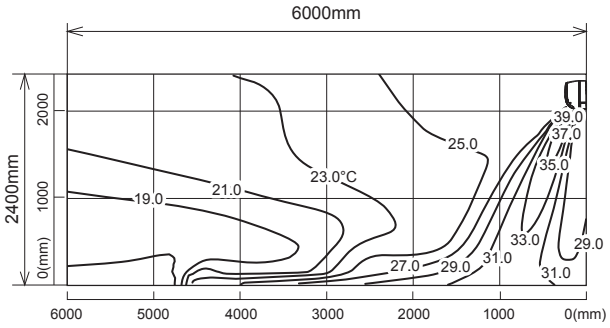
<Cooling mode>

Air volume: high
Air direction: auto (upward air flow)



<Heating mode>

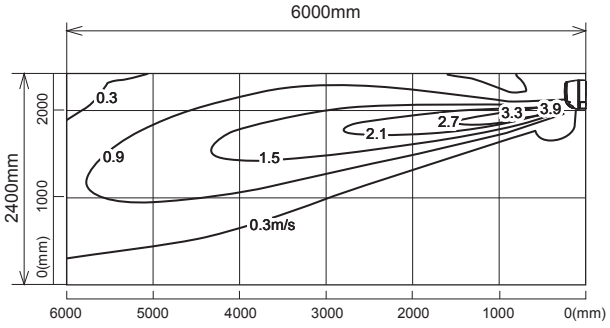
Air volume: high
Air direction: auto (downward air flow)



Airflow distribution

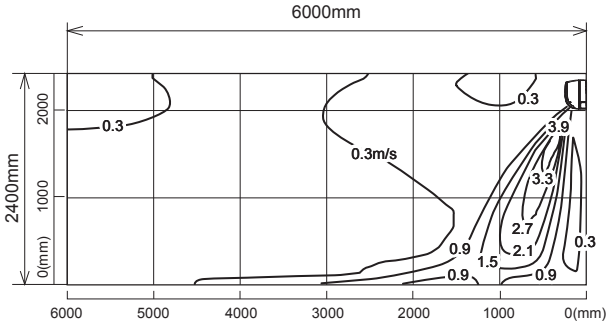
<Cooling mode>

Air volume: high
Air direction: auto (upward air flow)



<Heating mode>

Air volume: high
Air direction: auto (downward air flow)



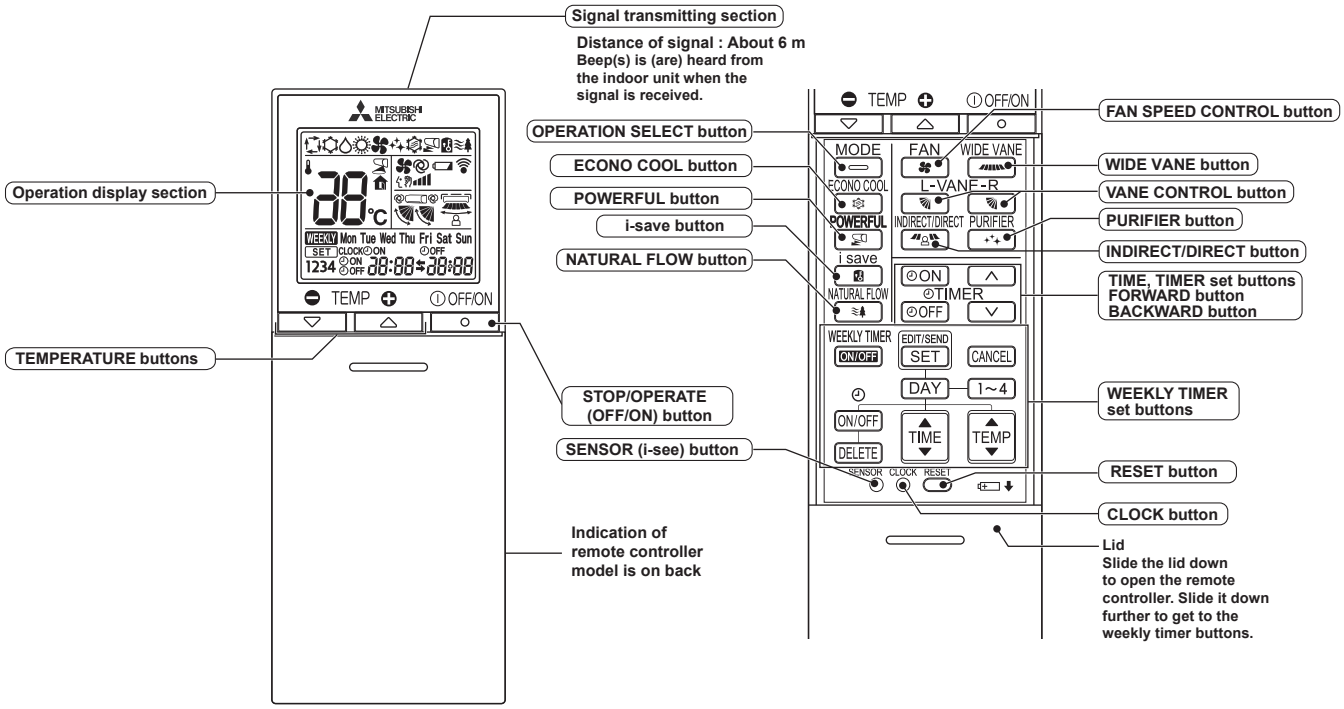
Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load,obstacles,etc.

C.1.9 OPERATION AND ACTUATOR CONTROL

C.1.9.1 MSZ-FH•VE2 Series

MSZ-FH25VE2 MUZ-FH25VE MUZ-FH25VEHZ
MSZ-FH35VE2 MUZ-FH35VE MUZ-FH35VEHZ
MSZ-FH50VE2 MUZ-FH50VE MUZ-FH50VEHZ

WIRELESS REMOTE CONTROLLER



NOTE: Last setting will be stored after the unit is turned OFF with the remote controller. Indoor unit receives the signal of the remote controller with beeps.

INDOOR UNIT DISPLAY SECTION

Operation Indicator lamp

The operation indicator at the right side of the indoor unit indicates the operation state.

•The following indication applies regardless of shape of the indication.

Indication	Operation state	Room temperature
☀ ☼	Standby mode (Only during multi system operation)	—

☀ Lighted
☼ Blinking
○ Not lighted

a. COOL (☼) OPERATION

(1) Press STOP/OPERATE (OFF/ON) button.
OPERATION INDICATOR lamp of the indoor unit turns on with a beep tone.
(2) Select COOL mode with OPERATION SELECT button.
(3) Press TEMPERATURE buttons TEMP ⊖ or ⊕ button to select the desired temperature. The setting range is 16 - 31°C.

1. Coil frost prevention

The compressor operational frequency is controlled by the temperature of the indoor heat exchanger to prevent the coil from frosting.
When the temperature of indoor heat exchanger becomes too low, the coil frost prevention mode works.
The indoor fan operates at the set speed and the compressor stops. This mode continues until the temperature of indoor heat exchanger rises.

2. Low outside temperature operation

When the outside temperature is lower, low outside temperature operation starts, and the outdoor fan slows or stops.

3. Indoor fan speed control

When the thermostat turns OFF, the indoor fan operates very Low to reduce power consumption.
When the room temperature rises and the thermostat is ON, the indoor fan operates according to the settings on the remote controller.

b. DRY (△) OPERATION

(1) Press STOP/OPERATE (OFF/ON) button.
OPERATION INDICATOR lamp of the indoor unit turns on with a beep tone.
(2) Select DRY mode with OPERATION SELECT button.
(3) The set temperature is determined from the initial room temperature.

1. Coil frost prevention
Coil frost prevention works the same way as that in COOL mode. (a.1.)

2. Low outside temperature operation
Low outside temperature operation works the same way as that in COOL mode. (a.2.)

3. Indoor fan speed control
Indoor fan speed control works the same way as that in COOL mode. (a.3.)

c. FAN (✿) OPERATION

(1) OPERATION INDICATOR lamp of the indoor unit turns on with a beep tone.
(2) Select FAN mode with OPERATION SELECT button.
(3) Select the desired fan speed. When AUTO, it becomes Low.
Only indoor fan operates.
Outdoor unit does not operate.

d. HEAT (☼) OPERATION

(1) Press STOP/OPERATE (OFF/ON) button.
OPERATION INDICATOR lamp of the indoor unit turns on with a beep tone.
(2) Select HEAT mode with OPERATION SELECT button.
(3) Press TEMPERATURE buttons TEMP ⊖ or ⊕ button to select the desired temperature. The setting range is 16 - 31°C.

1. Cold air prevention control
When the compressor is not operating or is starting, and the temperature of indoor heat exchanger and/or the room temperature is low or when defrosting is being done, the indoor fan will stop or rotate in Very Low speed.

2. High pressure protection
The compressor operational frequency is controlled by the temperature of the indoor heat exchanger to prevent the condensing pressure from increasing excessively.
When the temperature of indoor heat exchanger becomes too high, the high pressure protection works.
The indoor fan operates following the cold air prevention control. This mode continues until the temperature of indoor heat exchanger falls.

3. Defrosting
Defrosting starts when the temperature of outdoor heat exchanger becomes too low.
The compressor stops once, the indoor/outdoor fans stop, the 4-way valve reverses, and the compressor re-starts.
This mode continues until the temperature of outdoor heat exchanger rises or the fixed time passes.

e. AUTO CHANGE OVER ··· AUTO MODE OPERATION

Once desired temperature is set, unit operation is switched automatically between COOL and HEAT operation.

Mode selection

(1) Initial mode
When unit starts the operation with AUTO operation from OFF:
- If the room temperature is higher than the set temperature, operation starts in COOL mode.
- If the room temperature is equal to or lower than the set temperature, operation starts in HEAT mode.

(2) Mode change
COOL mode changes to HEAT mode when about 15 minutes have passed with the room temperature 1°C below the set temperature.
HEAT mode changes to COOL mode when about 15 minutes have passed with the room temperature 1°C above the set temperature.

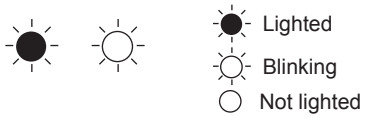
NOTE 1
If two or more indoor units are operating in multi system, there might be a case that the indoor unit, which is operating in ▭ (AUTO), cannot change over to the other operating mode (COOL ↔ HEAT) and becomes a state of standby.
Refer to **NOTE 2 "FOR MULTI SYSTEM AIR CONDITIONER"**.

NOTE 2
FOR MULTI SYSTEM AIR CONDITIONER
OUTDOOR UNIT: MXZ series

Multi system air conditioner can connect two or more indoor units with one outdoor unit.

- When you try to operate two or more indoor units with one outdoor unit simultaneously, one for the cooling and the others for heating, the operation mode of the indoor unit that operates first is selected. Other indoor units cannot operate, and operation indicator lamp flashes as shown in the figure below. In this case, please set all the indoor units to the same operation mode.

OPERATION INDICATOR



- When indoor unit starts the operation while the defrosting of outdoor unit is being done, it takes a few minutes (max. 10 minutes) to blow out the warm air.
- In the heating operation, though indoor unit that does not operate may get warm or the sound of refrigerant flowing may be heard, they are not malfunction. The reason is that the refrigerant continuously flows into it.

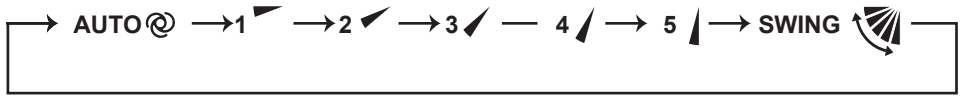
f. AUTO VANE OPERATION

1. Horizontal vane

(1) Vane motor drive

These models are equipped with stepping motors for the horizontal vanes. The rotating direction, speed, and angle of the motor are controlled by pulse signals (approximately 12 V) transmitted from indoor microprocessor.

(2) The horizontal vane angle and mode change as follows by pressing VANE CONTROL (L-VANE-R) button.



NOTE: The right and left horizontal vanes set to the same level may not align perfectly.

(3) Positioning

To confirm the standard position, the vane moves until it touches the vane stopper. Then the vane is set to the selected angle.

Confirmation of standard position is performed in the following cases:

(a) When the operation starts or finishes (including timer operation).
(b) When the test run starts.
(c) When standby mode (only during multi system operation) starts or finishes.

(4) VANE AUTO (@) mode

In VANE AUTO mode, the microprocessor automatically determines the vane angle to make the optimum room temperature distribution.

In COOL and DRY operation
Vane angle is fixed to Horizontal position.



In HEAT operation
Vane angle is fixed to Angle 4.



(5) STOP (operation OFF) and ON TIMER standby

In the following cases, the horizontal vane returns to the closed position.

(a) When STOP/OPERATE (OFF/ON) button is pressed (POWER OFF).
(b) When the operation is stopped by the emergency operation.
(c) When ON TIMER is ON standby.

(6) Dew prevention

During COOL or DRY operation with the vane angle at Angle 4 or 5 when the compressor cumulative operation time exceeds 1 hour, the vane angle automatically changes to Angle 3 for dew prevention.

(7) SWING ( ) mode

By selecting SWING mode with VANE CONTROL button, the horizontal vanes swing vertically.
When COOL, DRY or FAN mode is selected, only the upper vane swings.

(8) Cold air prevention in HEAT operation

The horizontal vane position is set to Upward.

NOTE: When 2 or more indoor units are operated with multi outdoor unit, even if any indoor unit turns thermostat off, this control does not work in the indoor unit.

(9) ECONO COOL ( ) operation (ECONOmical operation)

When ECONO COOL button is pressed in COOL mode, set temperature is automatically set 2°C higher by the microprocessor. However, the temperature on the LCD screen on the remote controller is not changed. Also the horizontal vane swings in various cycle.
SWING operation makes you feel cooler than set temperature. So, even though the set temperature is higher, the air conditioner can keep comfort. As a result, energy can be saved.
To cancel this operation, select a different mode or press one of the following buttons in ECONO COOL operation: ECONO COOL, VANE CONTROL, POWERFUL or NATURAL FLOW button.

(10) POWERFUL ( ) operation

The air conditioner automatically adjusts the fan speed and the set temperature, and operates the POWERFUL mode. The POWERFUL mode is cancelled automatically 15 minutes after operation starts, or when POWERFUL button is pressed once again within 15 minutes after operation starts. The operation mode returns to the mode prior to POWERFUL operation. To cancel this operation manually, select a different mode or press one of the following buttons within 15 minutes after operation starts: STOP/OPERATE (OFF/ON), ECONO COOL, FAN SPEED CONTROL, NATURAL FLOW or i-save button.

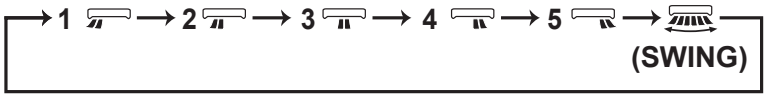
2. Vertical vane

(1) Vane motor drive

These models are equipped with a stepping motor for the vertical vane. The rotating direction, speed, and angle of the motor are controlled by pulse signals (approximately 12 V) transmitted from microprocessor.

(2) The vertical vane angle and mode change as follows by pressing WIDE VANE CONTROL button.

(3) Positioning



To confirm the standard position, the vane moves until it touches the vane stopper. Then the vane is set to the selected angle.

Confirmation of standard position is performed in the following cases:

(a) When STOP/OPERATE (OFF/ON) button is pressed (POWER ON).

(4) SWING ( ) MODE

By selecting SWING mode with WIDE VANE CONTROL button, the vertical vane swings horizontally. The remote controller displays " ". Swing mode is cancelled when WIDE MODE CONTROL button is pressed once again.

g. TIMER OPERATION

1. How to set the time

(1) Check that the current time is set correctly.

NOTE: Timer operation will not work without setting the current time. Initially “0:00” blinks at the current time display of TIME MONITOR, so set the current time correctly with CLOCK button.

How to set the current time

(a) Press the CLOCK button.

(b) Press the TIME SET buttons (∧ and ∨) to set the current time.

- Each time FORWARD button (∧) is pressed, the set time increases by 1 minute, and each time BACKWARD button (∨) is pressed, the set time decreases by 1 minute.
- Pressing those buttons longer, the set time increases/decreases by 10 minutes.

(c) Press the CLOCK set button.

(2) Press STOP/OPERATE (OFF/ON) button to start the air conditioner.

(3) Set the time of timer.

ON timer setting

(a) Press ON TIMER button(ON) during operation.

(b) Set the time of the timer using TIME SET buttons (∧ and ∨).※

OFF timer setting

(a) Press OFF TIMER button (OFF) during operation.

(b) Set the time of the timer using TIME SET buttons (∧ and ∨).※

※ Each time FORWARD button (∧) is pressed, the set time increases by 10 minutes: each time BACKWARD button (∨) is pressed, the set time decreases by 10 minutes.

2. To release the timer

To release ON timer, press ON TIMER button (ON).

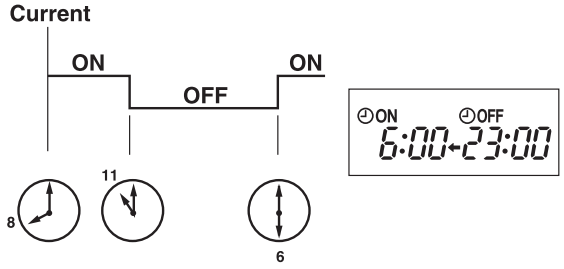
To release OFF timer, press OFF TIMER button(OFF).

TIMER is cancelled and the display of set time disappears.

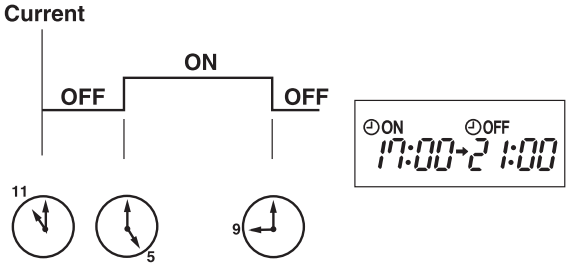
PROGRAM TIMER

- OFF timer and ON timer can be used in combination. The set time that is reached first will operate first.
- “⬅” and “➡” display shows the order of OFF timer and ON timer operation.

(Example 1) The current time is 8:00 PM.
The unit turns off at 11:00 PM, and on at 6:00 AM.



(Example 2) The current time is 11:00 AM.
The unit turns on at 5:00 PM, and off at 9:00 PM.

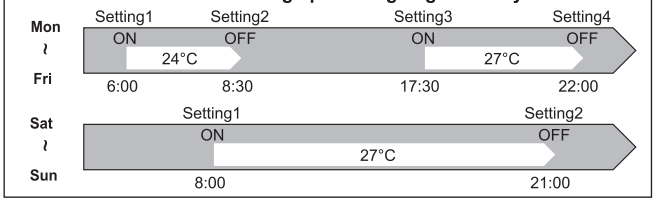


NOTE: If the main power is turned OFF or a power failure occurs while ON/OFF timer is active, the timer setting is cancelled. As these models are equipped with an auto restart function, the air conditioner starts operating with timer cancelled when power is restored.

h. WEEKLY TIMER OPERATION

• A maximum of 4 ON or OFF timers can be set for individual days of the week.
• A maximum of 28 ON or OFF timers can be set for a week.

E.g. : Runs at 24°C from waking up to leaving home, and runs at 27°C from getting home to going to bed on weekdays.
Runs at 27°C from waking up late to going bed early on weekends.



NOTE:
• The simple ON/OFF timer setting is available while the weekly timer is on. In this case, the ON/OFF timer has priority over the weekly timer; the weekly timer operation will start again after the simple ON/OFF timer is complete.
• When the weekly timer is set, temperature cannot be set to 10°C.
• The weekly timer operation and i-save operation cannot be used together.

1. How to set the weekly timer

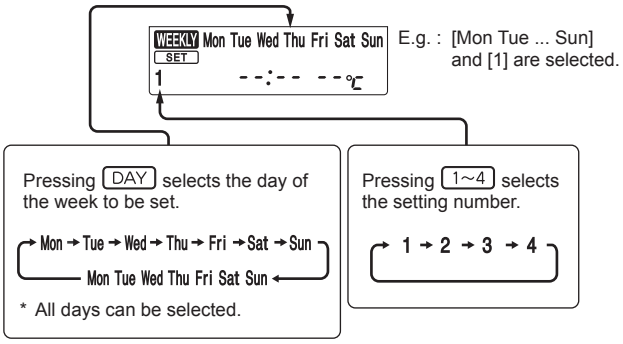
* Make sure that the current time and day are set correctly.

(1) Press EDIT/SEND SET button to enter the weekly timer setting mode.

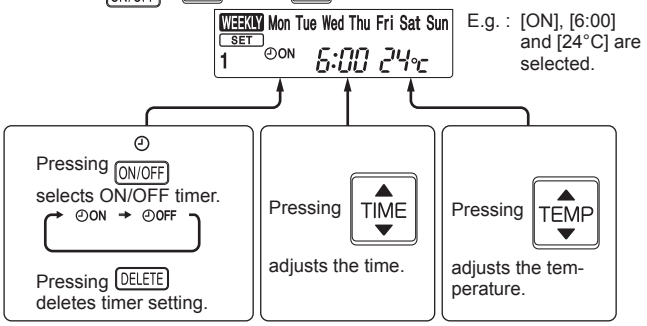


* SET blinks.

(2) Press DAY and 1~4 buttons to select setting day and number.



(3) Press ON/OFF , TIME , and TEMP buttons to set ON/OFF, time, and temperature.



* Hold down the button to change the time quickly.
* The temperature can be set between 16°C and 31°C at weekly timer.

Press DAY and 1~4 buttons to continue setting the timer for other days and/or numbers.

(4) Press EDIT/SEND SET button to complete and transmit the weekly timer setting.



* SET which was blinking goes out, and the current time will be displayed.

NOTE:

- Press EDIT/SEND SET button to transmit the setting information of weekly timer to the indoor unit. Point the remote controller toward the indoor unit for 3 seconds.
- When setting the timer for more than one day of the week or one number, EDIT/SEND SET button does not have to be pressed per each setting. Press EDIT/SEND SET button once after all the settings are complete. All the weekly timer settings will be saved.
- Press EDIT/SEND SET button to enter the weekly timer setting mode, and press and hold DELETE button for 5 seconds to erase all weekly timer settings. Point the remote controller toward the indoor unit.

(5) Press WEEKLY TIMER ON/OFF button to turn the weekly timer ON. (WEEKLY lights.)

•When the weekly timer is ON, the day of the week whose timer setting is complete, will light.

Press WEEKLY TIMER ON/OFF button again to turn the weekly timer OFF. (WEEKLY goes out.)

NOTE:

The saved settings will not be cleared when the weekly timer is turned OFF.

2. Checking weekly timer setting

(1) Press EDIT/SEND SET button to enter the weekly timer setting mode.

*SET blinks.

(2) Press DAY or 1~4 buttons to view the setting of the particular day or number.

(3) Press CANCEL button to exit the weekly timer setting.

NOTE:

When all days of the week are selected to view the settings and a different setting is included among them, --:-- --℃ will be displayed.

i. i-see CONTROL (🖳) MODE

In the i-see control mode, the room temperature is controlled based on the sensible temperature.

(1) Press SENSOR button with a thin instrument during COOL, DRY, HEAT and AUTO mode to activate i-see control mode (🖳). The default setting is “active”.

(2) Press SENSOR button again to activate ABSENCE DETECTION (🏠).

(3) Press SENSOR button again to release i-see control mode.

ABSENCE DETECTION (🏠)

This function automatically changes the operation to energy-saving operation when nobody is in the room.

(1) To activate this function, press SENSOR button until 🏠 appears on the operation display of the remote controller during the i-see control mode.

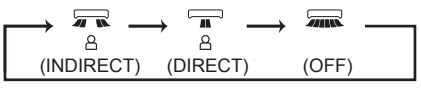
(2) Press SENSOR button again to release ABSENCE DETECTION.

j. INDIRECT/DIRECT MODE

The INDIRECT/DIRECT mode offers finely-tuned operation by locating where an occupant is in the room.

(1) Press INDIRECT/DIRECT button during COOL, DRY, HEAT or AUTO mode to activate INDIRECT/DIRECT mode. This mode is only available when the i-see control mode is effective.

(2) Each press of INDIRECT/DIRECT button changes INDIRECT/DIRECT in the following order:



(INDIRECT): An occupant will be less exposed to direct airflow.

(DIRECT) : Mainly the vicinity of an occupant will be air-conditioned.

NOTE:

- Horizontal and vertical airflow directions will be automatically selected.
- If you still feel uncomfortable with the air direction determined by the INDIRECT mode, adjust the air direction manually.
- Cancelling the i-see control mode automatically cancels the INDIRECT/DIRECT mode. INDIRECT/DIRECT mode is also cancelled when the VANE or WIDE VANE buttons is pressed.
- Do not touch the i-see SENSOR. This may cause malfunction of the i-see SENSOR.

k. NATURAL FLOW (≋) OPERATION

In NATURAL FLOW operation, air flow will become more like natural wind. An occupant will not be directly exposed to the air flow and feel more comfortable.

(1) Press NATURAL FLOW button during COOL or FAN mode to start NATURAL FLOW operation.
(2) Press NATURAL FLOW button again to cancel NATURAL FLOW operation.
• NATURAL FLOW operation is also cancelled when the POWERFUL or ECONO COOL button is pressed.

NOTE: As the fan speed changes constantly during NATURAL FLOW operation, the sound of air flow, wind velocity and air flow temperature also change. This is not a malfunction.

l. AIR PURIFYING (✨) OPERATION

In the AIR PURIFYING operation, the indoor unit built-in device reduces airborne fungi, viruses, mold, and allergens.

(1) Press PURIFIER button to start AIR PURIFYING operation.
• AIR PURIFYING lamp turns on. (Display section)
(2) Press PURIFIER button again to cancel AIR PURIFYING operation.
• AIR PURIFYING lamp turns off. (Display section)

NOTE:

• Never touch the air purifying device during operation. Although the air purifying device is safety-conscious design, touching this device could be the cause of trouble as this device discharge high voltage electricity.
• A "hissing" sound may be heard during the air purifying operation. This sound is produced when plasma is being discharged. This is not a malfunction.
• AIR PURIFYING lamp does not turn on if the front panel is not closed completely.

m. i-save (👥) OPERATION

1. How to set i-save operation

(1) Press STOP/OPERATE (OFF/ON) button.
(2) Select COOL, HEAT or ECONO COOL mode.
(3) Press i-save button.
(4) Set the temperature, fan speed, and airflow direction for i-save operation.

NOTE:

• i-save operation cannot be selected during DRY or AUTO mode operation.
• The setting range of HEAT mode i-save operation is 10°C and 16 - 31°C.
• 2 groups of setting can be saved. (One for COOL/ECONO COOL, one for HEAT)
• i-save operation and the weekly timer operation cannot be used together.

2. How to cancel operation

• Press i-save button again.
• i-save operation can also be cancelled by pressing POWERFUL button or OPERATION SELECT button to change the operation mode.
The same setting is select from the next time by simply pressing i-save button.

n. EMERGENCY/TEST OPERATION

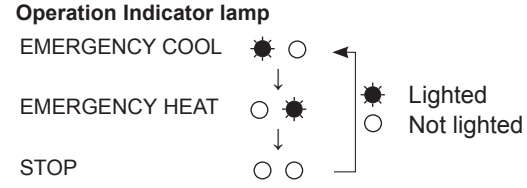
In the case of test run operation or emergency operation, use EMERGENCY OPERATION switch on the right side of the indoor unit.
Emergency operation is available when the remote controller is missing or has failed, or when the batteries in the remote controller are running down.
The unit will start and OPERATION INDICATOR lamp will light up.
The first 30 minutes of operation is the test run operation. This operation is for servicing. The indoor fan runs at High speed and the temperature control does not work.
After 30 minutes of test run operation, the system shifts to EMERGENCY COOL/HEAT MODE with a set temperature of 24°C. The fan speed shifts to Med.
The coil frost prevention works even in the test run or the emergency operation.
In the test run or emergency operation, the horizontal vane operates in VANE AUTO (@) mode.
Emergency operation continues until EMERGENCY OPERATION switch is pressed once or twice or the unit receives any signal from the remote controller. In the latter case, normal operation will start.

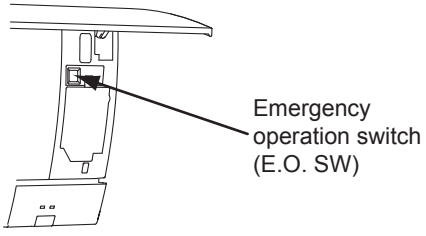
NOTE: Do not press EMERGENCY OPERATION switch during normal operation.

Operation mode	COOL/HEAT
Set temperature	24°C
Fan speed	Med.
Horizontal vane	Auto

The operation mode is indicated by the Operation Indicator lamp as following

Operation Indicator lamp





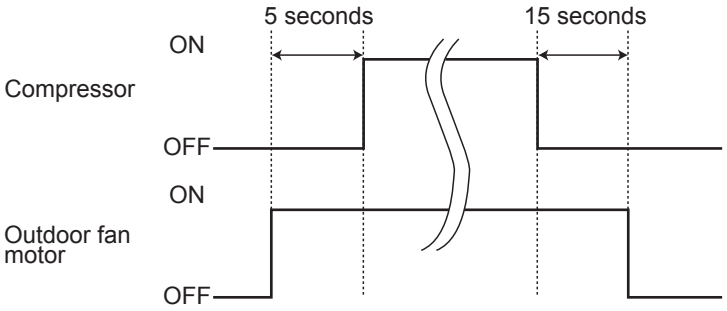
o. 3-MINUTE TIME DELAY OPERATION

When the system turns OFF, compressor will not restart for 3 minutes as 3-minute time delay function operates to protect compressor from overload.

p. ACTUATOR CONTROL

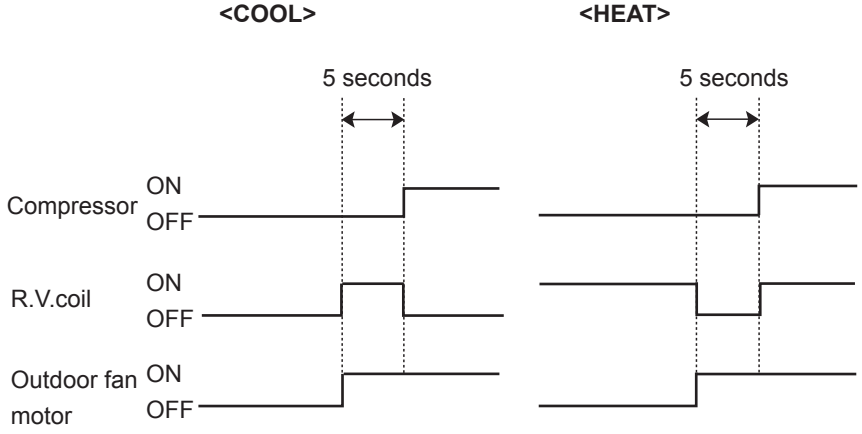
p-1. Outdoor fan motor control

The fan motor turns ON/OFF, interlocking with the compressor.
[ON] The fan motor turns ON 5 seconds before the compressor starts up.
[OFF] The fan motor turns OFF 15 seconds after the compressor has stopped running.



p-2. R.V. coil control

Heating · · · · · · · · · · · · · · · · · ON
Cooling · · · · · · · · · · · · · · · · · OFF
Dry · · · · · · · · · · · · · · · · · · · OFF
NOTE: The 4-way valve reverses for 5 seconds right before start-up of the compressor.



p-3. Relation between main sensor and actuator

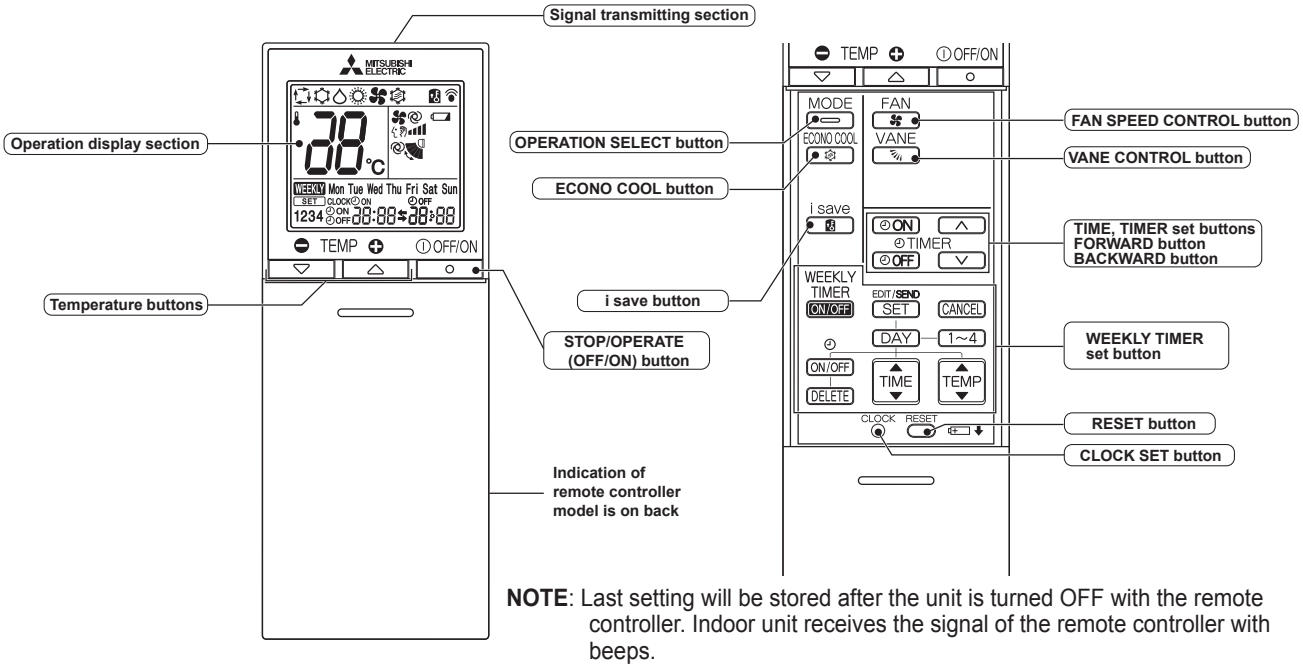
Sensor	Purpose	Actuator					
		Compressor	LEV	Outdoor fan motor	R.V.coil	Indoor fan motor	Defrost heater
Discharge temperature thermistor	Protection	○	○				
Indoor coil temperature thermistor	Cooling: Coil frost prevention	○					
	Heating: High pressure protection	○	○				
Defrost thermistor	Heating: Defrosting	○	○	○	○	○	
Fin temperature thermistor	Protection	○		○			
Ambient temperature thermistor	Cooling: Low ambient temperature operation	○	○	○			
	Heating: Defrosting (Heater)						○
Outdoor heat exchanger temperature thermistor	Cooling: Low ambient temperature operation	○	○	○			
	Cooling: High pressure protection	○	○	○			

C.1.9.2 MSZ-EF•VE3W/B/S, SF•VE3 Series

MSZ-EF18VE3W	**MSZ-EF18VE3B**	**MSZ-EF18VE3S**		
MSZ-EF22VE3W	**MSZ-EF22VE3B**	**MSZ-EF22VE3S**		
MSZ-EF25VE3W	**MSZ-EF25VE3B**	**MSZ-EF25VE3S**	**MUZ-EF25VE**	**MUZ-EF25VEH**
MSZ-EF35VE3W	**MSZ-EF35VE3B**	**MSZ-EF35VE3S**	**MUZ-EF35VE**	**MUZ-EF35VEH**
MSZ-EF42VE3W	**MSZ-EF42VE3B**	**MSZ-EF42VE3S**	**MUZ-EF42VE**	
MSZ-EF50VE3W	**MSZ-EF50VE3B**	**MSZ-EF50VE3S**	**MUZ-EF50VE**	

MSZ-SF25VE3	**MUZ-SF25VE**
	MUZ-SF25VEH
MSZ-SF35VE3	**MUZ-SF35VE**
	MUZ-SF35VEH
MSZ-SF42VE3	**MUZ-SF42VE**
	MUZ-SF42VEH
MSZ-SF50VE3	**MUZ-SF50VE**
	MUZ-SF50VEH

WIRELESS REMOTE CONTROLLER



NOTE: Last setting will be stored after the unit is turned OFF with the remote controller. Indoor unit receives the signal of the remote controller with beeps.

INDOOR UNIT DISPLAY SECTION

Operation Indicator lamp

The operation indicator at the right side of the indoor unit indicates the operation state.

•The following indication applies regardless of shape of the indication.

Indication	Operation state	Room temperature
☀ ☀	The unit is operating to reach the set temperature	About 2°C or more away from set temperature
☀ ○	The room temperature is approaching the set temperature	About 1 to 2°C from set temperature
☀ ☼	Standby mode (Only during multi system operation)	—

☀ Lighted
☼ Blinking
○ Not lighted

a. COOL (☼) OPERATION

(1) Press STOP/OPERATE (OFF/ON) button.
OPERATION INDICATOR lamp of the indoor unit turns on with a beep tone.
(2) Select COOL mode with OPERATION SELECT button.
(3) Press TEMPERATURE buttons TEMP ⊖ or ⊕ button to select the desired temperature. The setting range is 16 - 31°C.

1. Coil frost prevention
The compressor operational frequency is controlled by the temperature of the indoor heat exchanger to prevent the coil from frosting.
When the temperature of indoor heat exchanger becomes too low, the coil frost prevention mode works.
The indoor fan operates at the set speed and the compressor stops. This mode continues until the temperature of indoor heat exchanger rises.

2. Low outside temperature operation
When the outside temperature is lower, low outside temperature operation starts, and the outdoor fan slows or stops.

3. Indoor fan speed control
When the thermostat turns OFF, the indoor fan operates very Low to reduce power consumption.
When the room temperature rises and the thermostat is ON, the indoor fan operates according to the settings on the remote controller.

b. DRY (△) OPERATION

(1) Press STOP/OPERATE (OFF/ON) button.
OPERATION INDICATOR lamp of the indoor unit turns on with a beep tone.
(2) Select DRY mode with OPERATION SELECT button.
(3) The set temperature is determined from the initial room temperature.

1. Coil frost prevention
Coil frost prevention works the same way as that in COOL mode. (a.1.)

2. Low outside temperature operation
Low outside temperature operation works the same way as that in COOL mode. (a.2.)

3. Indoor fan speed control
Indoor fan speed control works the same way as that in COOL mode. (a.3.)

c. FAN (✾) OPERATION

(1) OPERATION INDICATOR lamp of the indoor unit turns on with a beep tone.
(2) Select FAN mode with OPERATION SELECT button.
(3) Select the desired fan speed. When AUTO, it becomes Low.
Only indoor fan operates.
Outdoor unit does not operate.

d. HEAT (☼) OPERATION

(1) Press STOP/OPERATE (OFF/ON) button.
OPERATION INDICATOR lamp of the indoor unit turns on with a beep tone.
(2) Select HEAT mode with OPERATION SELECT button.
(3) Press TEMPERATURE buttons TEMP ⊖ or ⊕ button to select the desired temperature. The setting range is 16 - 31°C.

1. Cold air prevention control
When the compressor is not operating or is starting, and the temperature of indoor heat exchanger and/or the room temperature is low or when defrosting is being done, the indoor fan will stop or rotate in Very Low speed.

2. High pressure protection
The compressor operational frequency is controlled by the temperature of the indoor heat exchanger to prevent the condensing pressure from increasing excessively.
When the temperature of indoor heat exchanger becomes too high, the high pressure protection works.
The indoor fan operates following the cold air prevention control. This mode continues until the temperature of indoor heat exchanger falls.

3. Defrosting
Defrosting starts when the temperature of outdoor heat exchanger becomes too low.
The compressor stops once, the indoor/outdoor fans stop, the 4-way valve reverses, and the compressor re-starts.
This mode continues until the temperature of outdoor heat exchanger rises or the fixed time passes.

e. AUTO CHANGE OVER ··· AUTO MODE OPERATION

Once desired temperature is set, unit operation is switched automatically between COOL and HEAT operation.

Mode selection

(1) Initial mode
When unit starts the operation with AUTO operation from OFF:
- If the room temperature is higher than the set temperature, operation starts in COOL mode.
- If the room temperature is equal to or lower than the set temperature, operation starts in HEAT mode.

(2) Mode change
COOL mode changes to HEAT mode when about 15 minutes have passed with the room temperature 1°C below the set temperature.
HEAT mode changes to COOL mode when about 15 minutes have passed with the room temperature 1°C above the set temperature.

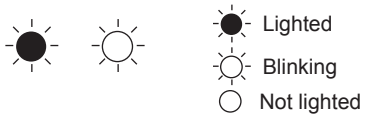
NOTE 1
If 2 or more indoor units are operating in multi system, there might be a case that the indoor unit, which is operating in ▭ (AUTO), cannot change over to the other operating mode (COOL ↔ HEAT) and becomes a state of standby.
Refer to **NOTE 2 "FOR MULTI SYSTEM AIR CONDITIONER"**.

NOTE 2
FOR MULTI SYSTEM AIR CONDITIONER
OUTDOOR UNIT: MXZ series

Multi system air conditioner can connect 2 or more indoor units with one outdoor unit.

- When you try to operate 2 or more indoor units with one outdoor unit simultaneously, one for the cooling and the others for heating, the operation mode of the indoor unit that operates first is selected. Other indoor units cannot operate, and operation indicator lamp flashes as shown in the figure below. In this case, please set all the indoor units to the same operation mode.

OPERATION INDICATOR



- When indoor unit starts the operation while the defrosting of outdoor unit is being done, it takes a few minutes (max. 10 minutes) to blow out the warm air.
- In the heating operation, though indoor unit that does not operate may get warm or the sound of refrigerant flowing may be heard, they are not malfunction. The reason is that the refrigerant continuously flows into it.

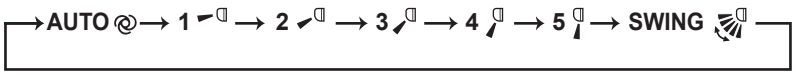
f. AUTO VANE OPERATION

1. Horizontal vane

(1) Vane motor drive

These models are equipped with a stepping motor for the horizontal vane. The rotating direction, speed, and angle of the motor are controlled by pulse signals (approximately 12 V) transmitted from indoor microprocessor.

(2) The horizontal vane angle and mode change as follows by pressing VANE CONTROL button.



(3) Positioning

To confirm the standard position, the vane moves until it touches the vane stopper. Then the vane is set to the selected angle.

Confirming of standard position is performed in the following cases:

(a) When the operation starts or finishes (including timer operation).
(b) When the test run starts.
(c) When standby mode (only during multi system operation) starts or finishes.

(4) VANE AUTO (@) mode

In VANE AUTO mode, the microprocessor automatically determines the vane angle to make the optimum room temperature distribution.

In COOL and DRY operation
Vane angle is fixed to Horizontal position.



In HEAT operation
Vane angle is fixed to Angle 4.



(5) STOP (operation OFF) and ON TIMER standby

In the following cases, the horizontal vane returns to the closed position.

(a) When STOP/OPERATE (OFF/ON) button is pressed (POWER OFF).
(b) When the operation is stopped by the emergency operation.
(c) When ON TIMER is ON standby.

(6) Dew prevention

During COOL or DRY operation with the vane angle at Angle 4 or 5 when the compressor cumulative operation time exceeds 1 hour, the vane angle automatically changes to Angle 1 for dew prevention.

(7) SWING (@) mode

By selecting SWING mode with VANE CONTROL button, the horizontal vanes swing vertically.
When COOL, DRY or FAN mode is selected, only the upper vane swings.

(8) Cold air prevention in HEAT operation

The horizontal vane position is set to Upward.

NOTE: When 2 or more indoor units are operated with multi outdoor unit, even if any indoor unit turns thermostat off, this control does not work in the indoor unit.

(9) ECONO COOL (🌿) operation (ECONOmical operation)
When ECONO COOL button is pressed in COOL mode, set temperature is automatically set 2°C higher by microprocessor. However, the temperature on the LCD screen on the remote controller is not changed.
Also the horizontal vane swings in various cycle.
SWING operation makes you feel cooler than set temperature. So, even though the set temperature is higher, the air conditioner can keep comfort. As a result, energy can be saved.
To cancel this operation, select a different mode or press one of the following buttons in ECONO COOL operation: ECONO COOL, or VANE CONTROL button.

g. TIMER OPERATION

1. How to set the time

(1) Check that the current time is set correctly.

NOTE: Timer operation will not work without setting the current time. Initially "0:00" blinks at the current time display of TIME MONITOR, so set the current time correctly with CLOCK SET button.

How to set the current time

(a) Press the CLOCK set button.
(b) Press the TIME SET buttons (∧ and ∨) to set the current time.
- Each time FORWARD button (∧) is pressed, the set time increases by 1 minute, and each time BACKWARD button (∨) is pressed, the set time decreases by 1 minute.
- Pressing those buttons longer, the set time increases/decreases by 10 minutes.

(c) Press the CLOCK set button.
(2) Press STOP/OPERATE (OFF/ON) button to start the air conditioner.
(3) Set the time of timer.

ON timer setting

(a) Press ON TIMER button(ON) during operation.
(b) Set the time of the timer using TIME SET buttons (∧ and ∨).※

OFF timer setting

(a) Press OFF TIMER button (OFF) during operation.
(b) Set the time of the timer using TIME SET buttons (∧ and ∨).※

※ Each time FORWARD button (∧) is pressed, the set time increases by 10 minutes: each time BACKWARD button (∨) is pressed, the set time decreases by 10 minutes.

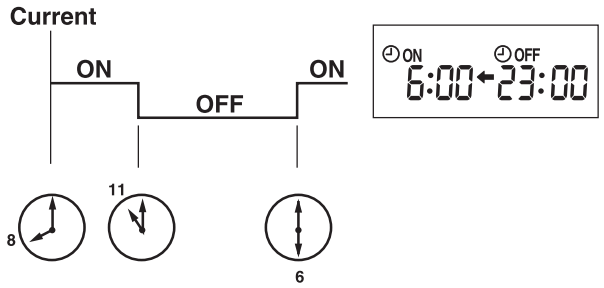
2. To release the timer

To release ON timer, press ON TIMER button (ON).
To release OFF timer, press OFF TIMER button(OFF).
TIMER is cancelled and the display of set time disappears.

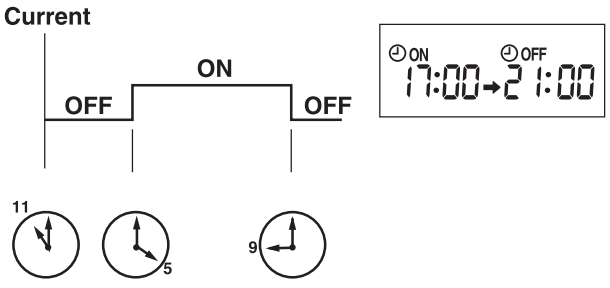
PROGRAM TIMER

- OFF timer and ON timer can be used in combination. The set time that is reached first will operate first.
- " ← " and " → " display shows the order of OFF timer and ON timer operation.

(Example 1) The current time is 8:00 PM.
The unit turns off at 11:00 PM, and on at 6:00 AM.



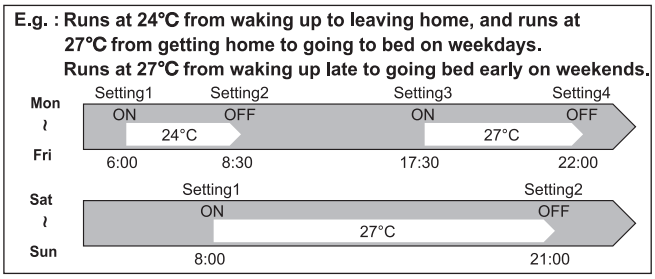
(Example 2) The current time is 11:00 AM.
The unit turns on at 5:00 PM, and off at 9:00 PM.



NOTE: If the main power is turned OFF or a power failure occurs while ON/OFF timer is active, the timer setting is cancelled. As these models are equipped with an auto restart function, the air conditioner starts operating with timer cancelled when power is restored.

h. WEEKLY TIMER OPERATION

• A maximum of 4 ON or OFF timers can be set for individual days of the week.
• A maximum of 28 ON or OFF timers can be set for a week.



NOTE:

• The simple ON/OFF timer setting is available while the weekly timer is on. In this case, the ON/OFF timer has priority over the weekly timer; the weekly timer operation will start again after the simple ON/OFF timer is complete.
• When the weekly timer is set, temperature cannot be set to 10°C.
• The weekly timer operation and i-save operation cannot be used together.

1. How to set the weekly timer

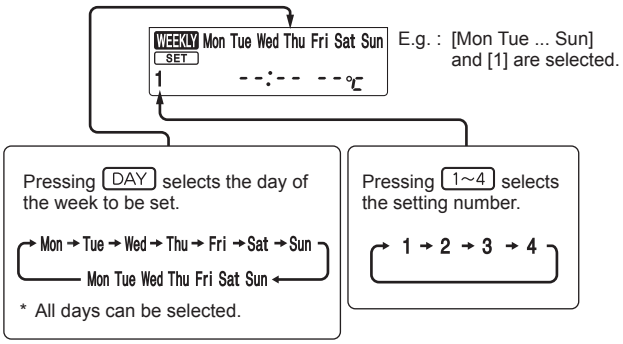
* Make sure that the current time and day are set correctly.

(1) Press EDIT/SEND SET button to enter the weekly timer setting mode.

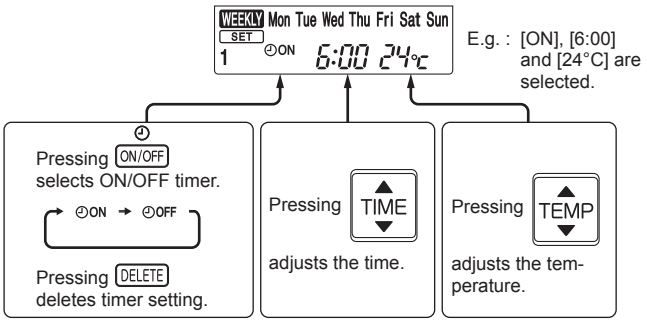


* SET blinks.

(2) Press DAY and 1~4 buttons to select setting day and number.



(3) Press ON/OFF , TIME , and TEMP buttons to set ON/OFF, time, and temperature.



* Hold down the button to change the time quickly.

Press DAY and 1~4 buttons to continue setting the timer for other days and/or numbers.

(4) Press EDIT/SEND SET button to complete and transmit the weekly timer setting.



* SET which was blinking goes out, and the current time will be displayed.

NOTE:

- Press EDIT/SEND SET button to transmit the setting information of weekly timer to the indoor unit. Point the remote controller toward the indoor unit for 3 seconds.
- When setting the timer for more than one day of the week or one number, EDIT/SEND SET button does not have to be pressed per each setting. Press EDIT/SEND SET button once after all the settings are complete. All the weekly timer settings will be saved.
- Press EDIT/SEND SET button to enter the weekly timer setting mode, and press and hold DELETE button for 5 seconds to erase all weekly timer settings. Point the remote controller toward the indoor unit.

(5) Press WEEKLY TIMER ON/OFF button to turn the weekly timer ON. (WEEKLY lights.)

•When the weekly timer is ON, the day of the week whose timer setting is complete, will light.

Press WEEKLY TIMER ON/OFF button again to turn the weekly timer OFF. (WEEKLY goes out.)

NOTE:
The saved settings will not be cleared when the weekly timer is turned OFF.

2. Checking weekly timer setting

(1) Press EDIT/SEND SET button to enter the weekly timer setting mode.
*SET blinks.

(2) Press DAY or 1~4 buttons to view the setting of the particular day or number.

(3) Press CANCEL button to exit the weekly timer setting.

NOTE:
When all days of the week are selected to view the settings and a different setting is included among them, --:-- --℃ will be displayed.

i. i-save (23) OPERATION

1. How to set i-save operation

(1) Press STOP/OPERATE (OFF/ON) button.
(2) Select COOL, HEAT or ECONO COOL mode.
(3) Press i-save button.
(4) Set the temperature, fan speed, and airflow direction for i-save operation.

NOTE:

- i-save operation cannot be selected during DRY or AUTO mode operation.
- The setting range of HEAT mode i-save operation is 10°C and 16 - 31°C.
- 2 groups of setting can be saved. (One for COOL/ECONO COOL, one for HEAT)
- i-save operation and the weekly timer operation cannot be used together.

2. How to cancel operation

- Press i-save button again.
- i-save operation can also be cancelled by pressing OPERATION SELECT button to change the operation mode.

The same setting is select from the next time by simply pressing i-save button.

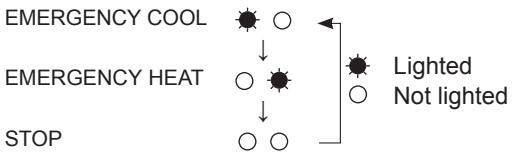
j. EMERGENCY/TEST OPERATION

In the case of test run operation or emergency operation, use EMERGENCY OPERATION switch on the right side of the indoor unit.
Emergency operation is available when the remote controller is missing or has failed, or the batteries in the remote controller are running down. The unit will start and OPERATION INDICATOR lamp will light up.
The first 30 minutes of operation is the test run operation. This operation is for servicing. The indoor fan runs at High speed and the temperature control does not work.
After 30 minutes of test run operation, the system shifts to EMERGENCY COOL/HEAT MODE with a set temperature of 24°C. The fan speed shifts to Med.
The coil frost prevention works even in the test run or the emergency operation.
In the test run or emergency operation, the horizontal vane operates in VANE AUTO (@) mode.
Emergency operation continues until EMERGENCY OPERATION switch is pressed once or twice or the unit receives any signal from the remote controller. In the latter case normal operation will start.

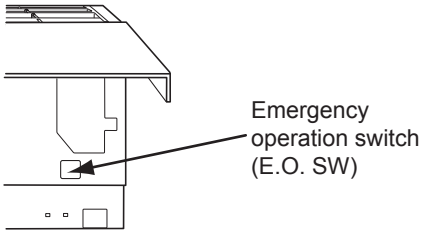
Operation mode	COOL/HEAT
Set temperature	24°C
Fan speed	Med.
Horizontal vane	Auto

The operation mode is indicated by the Operation Indicator lamp as following

Operation Indicator lamp



NOTE: Do not press EMERGENCY OPERATION switch during normal operation.



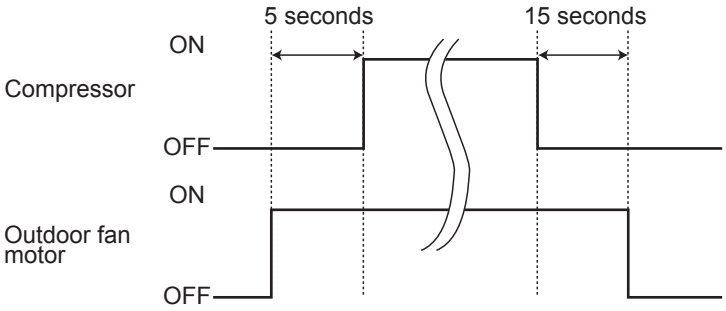
k. 3-MINUTE TIME DELAY OPERATION

When the system turns OFF, compressor will not restart for 3 minutes as 3-minute time delay function operates to protect compressor from overload.

I. ACTUATOR CONTROL

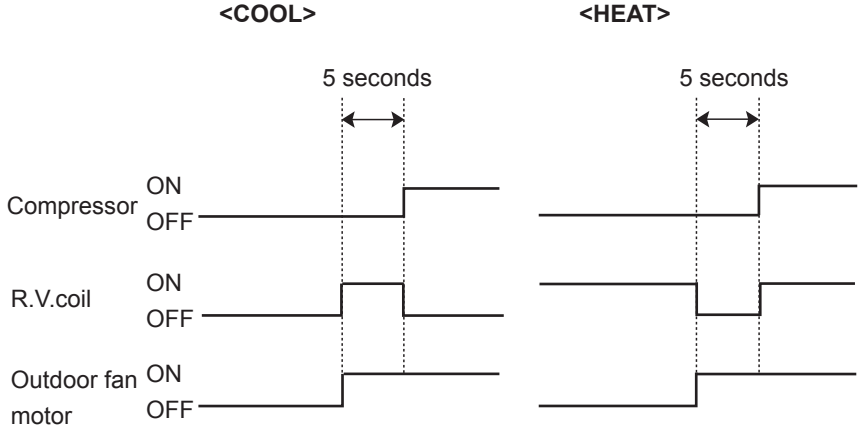
I-1. Outdoor fan motor control

The fan motor turns ON/OFF, interlocking with the compressor.
[ON] The fan motor turns ON 5 seconds before the compressor starts up.
[OFF] The fan motor turns OFF 15 seconds after the compressor has stopped running.



I-2. R.V. coil control

Heating · · · · · · · · · · · · · · · · · · ON
Cooling · · · · · · · · · · · · · · · · · · OFF
Dry · OFF
NOTE: The 4-way valve reverses for 5 seconds right before start-up of the compressor.

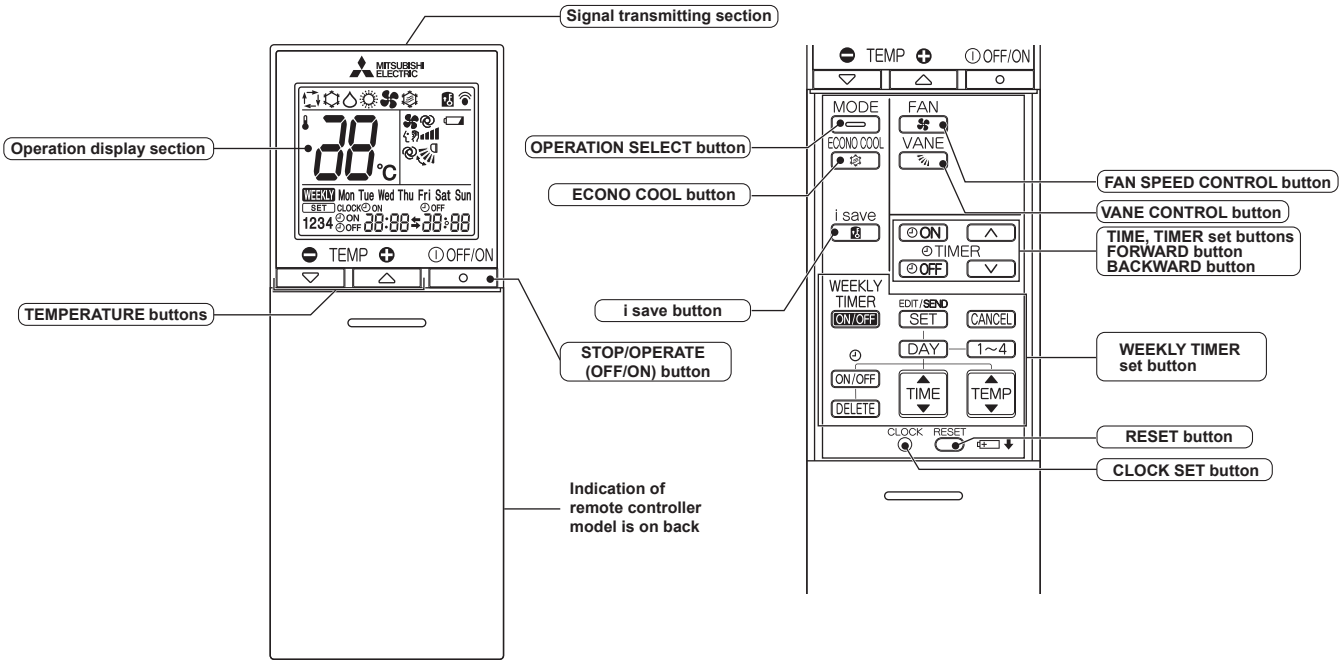


I-3. Relation between main sensor and actuator

Sensor	Purpose	Actuator					
		Compressor	LEV	Outdoor fan motor	R.V.coil	Indoor fan motor	Defrost heater
Discharge temperature thermistor	Protection	○	○				
Indoor coil temperature thermistor	Cooling: Coil frost prevention	○					
	Heating: High pressure protection	○	○				
Defrost thermistor	Heating: Defrosting	○	○	○	○	○	
Fin temperature thermistor	Protection	○		○			
Ambient temperature thermistor	Cooling: Low ambient temperature operation	○	○	○			
	Heating: Defrosting (Heater)						○
Outdoor heat exchanger temperature thermistor	Cooling: Low ambient temperature operation	○	○	○			
	Cooling: High pressure protection	○	○	○			

C.1.9.3 MSZ-SF•VA Series
MSZ-SF15VA
MSZ-SF20VA

WIRELESS REMOTE CONTROLLER



NOTE: Last setting will be stored after the unit is turned OFF with the remote controller. Indoor unit receives the signal of the remote controller with beeps.

INDOOR UNIT DISPLAY SECTION

Operation Indicator lamp

The operation indicator at the right side of the indoor unit indicates the operation state.

•The following indication applies regardless of shape of the indication.

Indication	Operation state	Room temperature
■ ■	The unit is operating to reach the set temperature	About 2°C or more away from set temperature
■ □	The room temperature is approaching the set temperature	About 1 to 2°C from set temperature
■ ▯	Standby mode (Only during multi system operation)	—

■ Lighted
▯ Blinking
□ Not lighted

a. COOL (☼) OPERATION

(1) Press STOP/OPERATE (OFF/ON) button.
OPERATION INDICATOR lamp of the indoor unit turns on with a beep tone.
(2) Select COOL mode with OPERATION SELECT button.
(3) Press TEMPERATURE buttons (TEMP ⊖ or ⊕ button) to select the desired temperature. The setting range is 16 - 31°C.

1. Coil frost prevention

The compressor operational frequency is controlled by the temperature of the indoor heat exchanger to prevent the coil from frosting.
When the temperature of indoor heat exchanger becomes too low, the coil frost prevention mode works.
The indoor fan operates at the set speed and the compressor stops. This mode continues until the temperature of indoor heat exchanger rises.

2. Low outside temperature operation

When the outside temperature is lower, low outside temperature operation starts, and the outdoor fan slows or stops.

b. DRY (△) OPERATION

(1) Press STOP/OPERATE (OFF/ON) button.
OPERATION INDICATOR lamp of the indoor unit turns on with a beep tone.
(2) Select DRY mode with OPERATION SELECT button.
(3) The set temperature is determined from the initial room temperature.

1. Coil frost prevention
Coil frost prevention works the same way as that in COOL mode. (a.1.)

2. Low outside temperature operation
Low outside temperature operation works the same way as that in COOL mode. (a.2.)

c. FAN (✾) OPERATION

(1) OPERATION INDICATOR lamp of the indoor unit turns on with a beep tone.
(2) Select FAN mode with OPERATION SELECT button.
(3) Select the desired fan speed. When AUTO, it becomes Low.
Only indoor fan operates.
Outdoor unit does not operate.

d. HEAT (☼) OPERATION

(1) Press STOP/OPERATE (OFF/ON) button.
OPERATION INDICATOR lamp of the indoor unit turns on with a beep tone.
(2) Select HEAT mode with OPERATION SELECT button.
(3) Press TEMPERATURE buttons (TEMP ⊖ or ⊕ button) to select the desired temperature. The setting range is 16 - 31°C.

1. Cold air prevention control
When the compressor is not operating or is starting, and the temperature of indoor heat exchanger and/or the room temperature is low or when defrosting is being done, the indoor fan will stop or rotate in Very Low speed.

2. High pressure protection
The compressor operational frequency is controlled by the temperature of the indoor heat exchanger to prevent the condensing pressure from increasing excessively.
When the temperature of indoor heat exchanger becomes too high, the high pressure protection works.
The indoor fan operates following the cold air prevention control. This mode continues until the temperature of indoor heat exchanger falls.

3. Defrosting
Defrosting starts when the temperature of outdoor heat exchanger becomes too low.
The compressor stops once, the indoor/outdoor fans stop, the 4-way valve reverses, and the compressor re-starts.
This mode continues until the temperature of outdoor heat exchanger rises or the fixed time passes.

e. AUTO CHANGE OVER ··· AUTO MODE OPERATION

Once desired temperature is set, unit operation is switched automatically between COOL and HEAT operation.

Mode selection

(1) Initial mode

When unit starts the operation with AUTO operation from OFF:

- If the room temperature is higher than the set temperature, operation starts in COOL mode.
- If the room temperature is equal to or lower than the set temperature, operation starts in HEAT mode.

(2) Mode change

COOL mode changes to HEAT mode when about 15 minutes has passed with the room temperature 1°C below the set temperature.

HEAT mode changes to COOL mode when about 15 minutes has passed with the room temperature 1°C above the set temperature.

NOTE 1

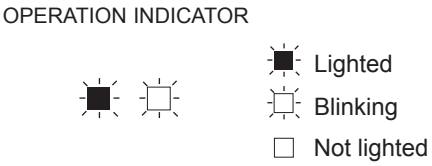
If 2 or more indoor units are operating in multi system, there might be a case that the indoor unit, which is operating in ▭ (AUTO), cannot change over to the other operating mode (COOL ↔ HEAT) and becomes a state of standby.
Refer to **NOTE 2 "FOR MULTI SYSTEM AIR CONDITIONER"**.

NOTE 2

FOR MULTI SYSTEM AIR CONDITIONER OUTDOOR UNIT: MXZ series

Multi system air conditioner can connect 2 or more indoor units with one outdoor unit.

- When you try to operate 2 or more indoor units with one outdoor unit simultaneously, one for the cooling and the others for heating, the operation mode of the indoor unit that operates first is selected. Other indoor units cannot operate, and operation indicator lamp flashes as shown in the figure below. In this case, please set all the indoor units to the same operation mode.



- When indoor unit starts the operation while the defrosting of outdoor unit is being done, it takes a few minutes (max. 10 minutes) to blow out the warm air.
- In the heating operation, though indoor unit that does not operate may get warm or the sound of refrigerant flowing may be heard, they are not malfunction. The reason is that the refrigerant continuously flows into it.

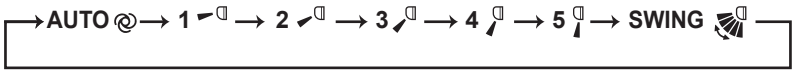
f. AUTO VANE OPERATION

1. Horizontal vane

(1) Vane motor drive

These models are equipped with a stepping motor for the horizontal vane. The rotating direction, speed, and angle of the motor are controlled by pulse signals (approximately 12 V) transmitted from indoor microprocessor.

(2) The horizontal vane angle and mode change as follows by pressing VANE CONTROL button.



(3) Positioning

To confirm the standard position, the vane moves until it touches the vane stopper. Then the vane is set to the selected angle.

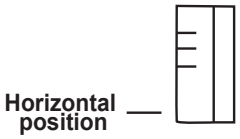
Confirming of standard position is performed in the following cases:

(a) When the operation starts or finishes (including timer operation).
(b) When the test run starts.
(c) When standby mode (only during multi system operation) starts or finishes.

(4) VANE AUTO (@) mode

In VANE AUTO mode, the microprocessor automatically determines the vane angle to make the optimum room temperature distribution.

In COOL and DRY operation
Vane angle is fixed to Horizontal position.



In HEAT operation
Vane angle is fixed to Angle 4.



(5) STOP (operation OFF) and ON TIMER standby
In the following cases, the horizontal vane returns to the closed position.
(a) When STOP/OPERATE (OFF/ON) button is pressed (POWER OFF).
(b) When the operation is stopped by the emergency operation.
(c) When ON TIMER is ON standby.

(6) Dew prevention
During COOL or DRY operation with the vane angle at Angle 4 or 5 when the compressor cumulative operation time exceeds 1 hour, the vane angle automatically changes to Angle 1 for dew prevention.

(7) SWING ( ) mode
By selecting SWING mode with VANE CONTROL button, the horizontal vane swings vertically.

(8) Cold air prevention in HEAT operation
The horizontal vane position is set to Upward.
NOTE: When 2 or more indoor units are operated with multi outdoor unit, even if any indoor unit turns thermostat off, this control does not work in the indoor unit.

(9) ECONO COOL ( ) operation (ECONOmical operation)
When ECONO COOL button is pressed in COOL mode, set temperature is automatically set 2°C higher by the microprocessor. However, the temperature on the LCD screen on the remote controller is not changed.
Also the horizontal vane swings in various cycle.
SWING operation makes you feel cooler than set temperature. So, even though the set temperature is higher, the air conditioner can keep comfort. As a result, energy can be saved.
To cancel this operation, select a different mode or press one of the following buttons in ECONO COOL operation: ECONO COOL, VANE CONTROL button.

g. TIMER OPERATION

1. How to set the time

(1) Check that the current time is set correctly.
NOTE: Timer operation will not work without setting the current time. Initially “0:00” blinks at the current time display of TIME MONITOR, so set the current time correctly with CLOCK SET button.

How to set the current time

(a) Press the CLOCK set button.
(b) Press the TIME SET buttons (and) to set the current time.
- Each time FORWARD button ( ) is pressed, the set time increases by 1 minute, and each time BACKWARD button ( ) is pressed, the set time decreases by 1 minute.
- Pressing those buttons longer, the set time increases/decreases by 10 minutes.

(c) Press the CLOCK set button.

(2) Press STOP/OPERATE (OFF/ON) button to start the air conditioner.

(3) Set the time of timer.

ON timer setting

(a) Press ON TIMER button( ) during operation.
(b) Set the time of the timer using TIME SET buttons (and). ※

OFF timer setting

(a) Press OFF TIMER button ( ) during operation.
(b) Set the time of the timer using TIME SET buttons (and). ※

※ Each time FORWARD button ( ) is pressed, the set time increases by 10 minutes: each time BACKWARD button ( ) is pressed, the set time decreases by 10 minutes.

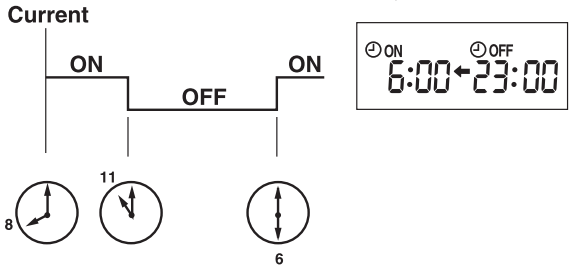
2. To release the timer

To release ON timer, press ON TIMER button ( ).
To release OFF timer, press OFF TIMER button( ).
TIMER is cancelled and the display of set time disappears.

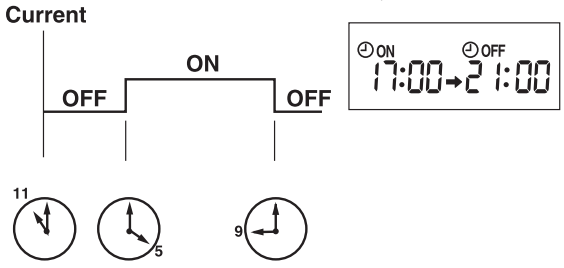
PROGRAM TIMER

• OFF timer and ON timer can be used in combination. The set time that is reached first will operate first.
• " ⬅ " and " ➡ " display shows the order of OFF timer and ON timer operation.

(Example 1) The current time is 8:00 PM.
The unit turns off at 11:00 PM, and on at 6:00 AM.



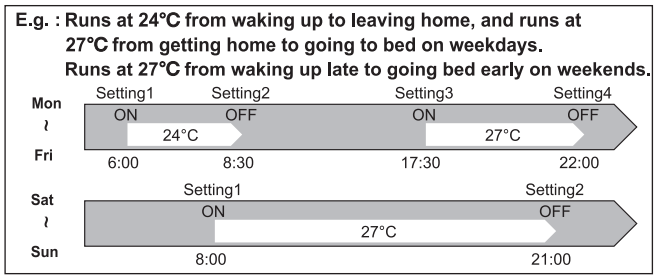
(Example 2) The current time is 11:00 AM.
The unit turns on at 5:00 PM, and off at 9:00 PM.



NOTE: If the main power is turned OFF or a power failure occurs while ON/OFF timer is active, the timer setting is cancelled. As these models are equipped with an auto restart function, the air conditioner starts operating with timer cancelled when power is restored.

h. WEEKLY TIMER OPERATION

• A maximum of 4 ON or OFF timers can be set for individual days of the week.
• A maximum of 28 ON or OFF timers can be set for a week.



NOTE:
• The simple ON/OFF timer setting is available while the weekly timer is on. In this case, the ON/OFF timer has priority over the weekly timer; the weekly timer operation will start again after the simple ON/OFF timer is complete.
• When the weekly timer is set, temperature cannot be set to 10°C.
• The weekly timer operation and i-save operation cannot be used together.

1. How to set the weekly timer

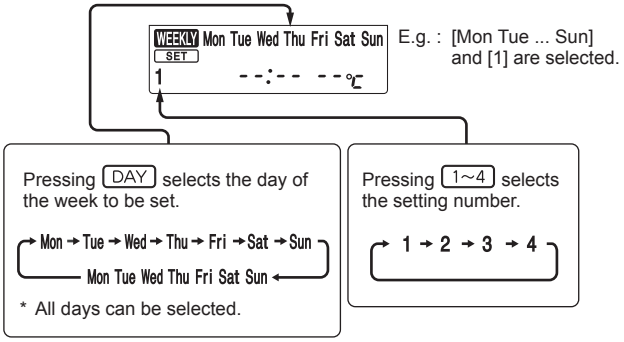
* Make sure that the current time and day are set correctly.

(1) Press EDIT/SEND SET button to enter the weekly timer setting mode.

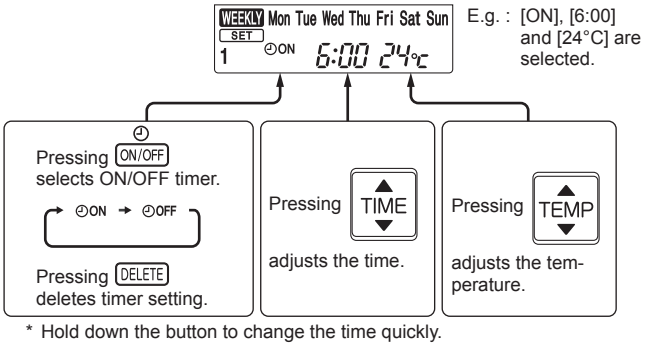


* SET blinks.

(2) Press DAY and 1~4 buttons to select setting day and number.



(3) Press ON/OFF , TIME , and TEMP buttons to set ON/OFF, time, and temperature.



* Hold down the button to change the time quickly.

Press DAY and 1~4 buttons to continue setting the timer for other days and/or numbers.

(4) Press EDIT/SEND SET button to complete and transmit the weekly timer setting.



* SET which was blinking goes out, and the current time will be displayed.

NOTE:

- Press EDIT/SEND SET button to transmit the setting information of weekly timer to the indoor unit. Point the remote controller toward the indoor unit for 3 seconds.
- When setting the timer for more than one day of the week or one number, EDIT/SEND SET button does not have to be pressed per each setting. Press EDIT/SEND SET button once after all the settings are complete. All the weekly timer settings will be saved.
- Press EDIT/SEND SET button to enter the weekly timer setting mode, and press and hold DELETE button for 5 seconds to erase all weekly timer settings. Point the remote controller toward the indoor unit.

(5) Press WEEKLY TIMER ON/OFF button to turn the weekly timer ON. (WEEKLY lights.)

•When the weekly timer is ON, the day of the week whose timer setting is complete, will light.

Press WEEKLY TIMER ON/OFF button again to turn the weekly timer OFF. (WEEKLY goes out.)

NOTE:
The saved settings will not be cleared when the weekly timer is turned OFF.

2. Checking weekly timer setting

(1) Press EDIT/SEND SET button to enter the weekly timer setting mode.
*SET blinks.

(2) Press DAY or 1~4 buttons to view the setting of the particular day or number.

(3) Press CANCEL button to exit the weekly timer setting.

NOTE:
When all days of the week are selected to view the settings and a different setting is included among them, --:-- --℃ will be displayed.

i. i-save (i-save) OPERATION

1. How to set i-save operation

(1) Press STOP/OPERATE (OFF/ON) button.
(2) Select COOL, HEAT or ECONO COOL mode.
(3) Press i-save button.
(4) Set the temperature, fan speed, and airflow direction for i-save operation.

NOTE:

- i-save operation cannot be selected during DRY or AUTO mode operation.
- The setting range of HEAT mode i-save operation is 10°C and 16 - 31°C.
- 2 groups of setting can be saved. (One for COOL/ECONO COOL, one for HEAT)
- i-save operation and the weekly timer operation cannot be used together.

2. How to cancel operation

- Press i-save button again.
- i-save operation can also be cancelled by pressing OPERATION SELECT button to change the operation mode. The same setting is selected from the next time by simply pressing i-save button.

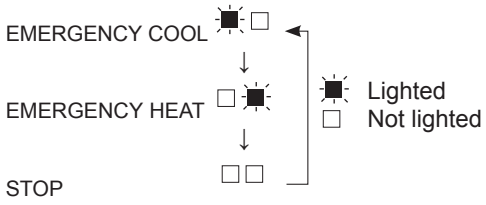
j. EMERGENCY/TEST OPERATION

In the case of test run operation or emergency operation, use EMERGENCY OPERATION switch on the right side of the indoor unit. Emergency operation is available when the remote controller is missing or has failed, or when the batteries in the remote controller are running down. The unit will start and OPERATION INDICATOR lamp will light up. The first 30 minutes of operation is the test run operation. This operation is for servicing. The indoor fan runs at High speed and the temperature control does not work. After 30 minutes of test run operation, the system shifts to EMERGENCY COOL/HEAT MODE with a set temperature of 24°C. The fan speed shifts to Med. The coil frost prevention works even in the test run or the emergency operation. In the test run or emergency operation, the horizontal vane operates in VANE AUTO (@) mode. Emergency operation continues until EMERGENCY OPERATION switch is pressed once or twice or the unit receives any signal from the remote controller. In the latter case, normal operation will start.

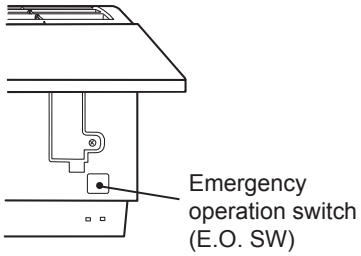
Operation mode	COOL/HEAT
Set temperature	24°C
Fan speed	Med.
Horizontal vane	Auto

The operation mode is indicated by the Operation Indicator lamp as following

Operation Indicator lamp



NOTE: Do not press EMERGENCY OPERATION switch during normal operation.



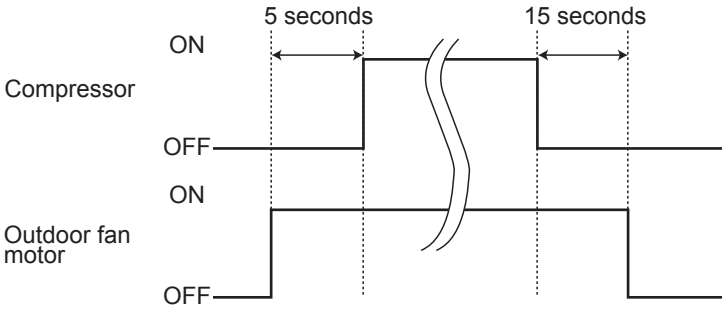
k. 3-MINUTE TIME DELAY OPERATION

When the system turns OFF, compressor will not restart for 3 minutes as 3-minute time delay function operates to protect compressor from overload.

I. ACTUATOR CONTROL

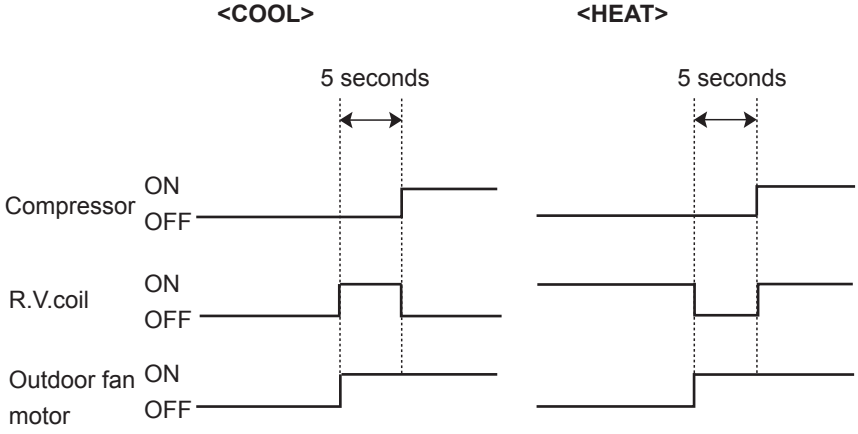
I-1. Outdoor fan motor control

The fan motor turns ON/OFF, interlocking with the compressor.
[ON] The fan motor turns ON 5 seconds before the compressor starts up.
[OFF] The fan motor turns OFF 15 seconds after the compressor has stopped running.



I-2. R.V. coil control

Heating · · · · · · · · · · · · · · · · · ON
Cooling · · · · · · · · · · · · · · · · · OFF
Dry · OFF
NOTE: The 4-way valve reverses for 5 seconds right before start-up of the compressor.

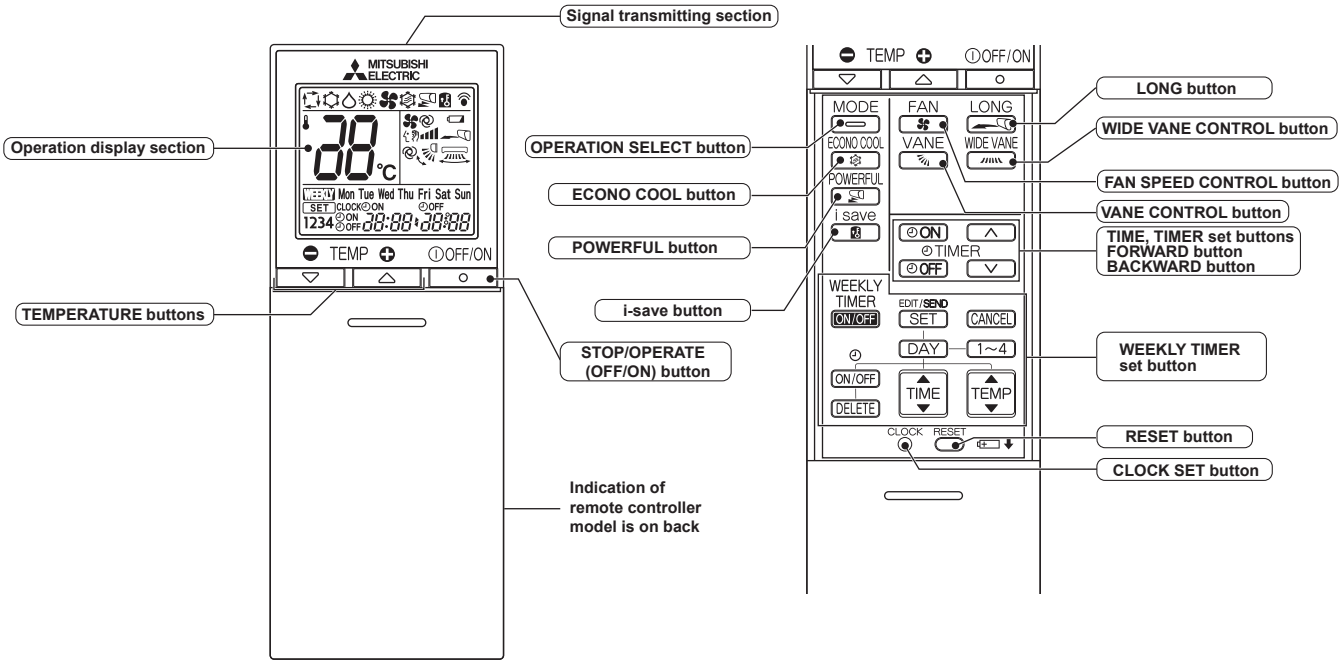


I-3. Relation between main sensor and actuator

Sensor	Purpose	Actuator					
		Compressor	LEV	Outdoor fan motor	R.V. coil	Indoor fan motor	Defrost heater
Discharge temperature thermistor	Protection	○	○				
Indoor coil temperature thermistor	Cooling: Coil frost prevention	○					
	Heating: High pressure protection	○	○				
Defrost thermistor	Heating: Defrosting	○	○	○	○	○	
Fin temperature thermistor	Protection	○		○			
Ambient temperature thermistor	Cooling: Low ambient temperature operation	○	○	○			
	Heating: Defrosting (Heater)						○
Outdoor heat exchanger temperature thermistor	Cooling: Low ambient temperature operation	○	○	○			
	Cooling: High pressure protection	○	○	○			

C.1.9.4 MSZ-GF•VE Series
MSZ-GF60VE2 MUZ-GF60VE
MSZ-GF71VE2 MUZ-GF71VE

WIRELESS REMOTE CONTROLLER



NOTE: Last setting will be stored after the unit is turned OFF with the remote controller. Indoor unit receives the signal of the remote controller with beeps.

INDOOR UNIT DISPLAY SECTION

Operation Indicator lamp

The operation indicator at the right side of the indoor unit indicates the operation state.

•The following indication applies regardless of shape of the indication.

Indication	Operation state	Room temperature
☀ ☀	The unit is operating to reach the set temperature	About 2°C or more away from set temperature
☀ ○	The room temperature is approaching the set temperature	About 1 to 2°C from set temperature
☀ ☼	Standby mode (Only during multi system operation)	—

☀ Lighted
☼ Blinking
○ Not lighted

a. COOL (☼) OPERATION

(1) Press STOP/OPERATE (OFF/ON) button.
OPERATION INDICATOR lamp of the indoor unit turns on with a beep tone.
(2) Select COOL mode with OPERATION SELECT button.
(3) Press TEMPERATURE buttons (TEMP ⊖ or ⊕ button) to select the desired temperature. The setting range is 16 - 31°C.

1. Coil frost prevention

The compressor operational frequency is controlled by the temperature of the indoor heat exchanger to prevent the coil from frosting.
When the temperature of indoor heat exchanger becomes too low, the coil frost prevention mode works.
The indoor fan operates at the set speed and the compressor stops. This mode continues until the temperature of indoor heat exchanger rises.

2. Low outside temperature operation

When the outside temperature is lower, low outside temperature operation starts, and the outdoor fan slows or stops.

3. Indoor fan speed control

When the thermostat turns OFF, the indoor fan stops running to reduce power consumption.
After that, the indoor fan stops for 60 seconds and then operates at Very Low for 10 seconds to sense accurate room temperature. The indoor fan alternates ON and OFF at this interval while the thermostat is OFF.
When the room temperature rises and the thermostat is ON, the indoor fan starts running according to the settings on the remote controller.

b. DRY (△) OPERATION

(1) Press STOP/OPERATE (OFF/ON) button.
OPERATION INDICATOR lamp of the indoor unit turns on with a beep tone.
(2) Select DRY mode with OPERATION SELECT button.
(3) The set temperature is determined from the initial room temperature.

1. Coil frost prevention

Coil frost prevention works the same way as that in COOL mode. (a.1.)

2. Low outside temperature operation

Low outside temperature operation works the same way as that in COOL mode. (a.2.)

3. Indoor fan speed control

Indoor fan speed control works the same way as that in COOL mode. (a.3.)

c. HEAT (☼) OPERATION

(1) Press STOP/OPERATE (OFF/ON) button.
OPERATION INDICATOR lamp of the indoor unit turns on with a beep tone.
(2) Select HEAT mode with OPERATION SELECT button.
(3) Press TEMPERATURE buttons (TEMP ⊖ or ⊕ button) to select the desired temperature. The setting range is 16 - 31°C.

1. Cold air prevention control

When the compressor is not operating or is starting, and the temperature of indoor heat exchanger and/or the room temperature is low or when defrosting is being done, the indoor fan will stop or rotate in Very Low speed.

2. High pressure protection

The compressor operational frequency is controlled by the temperature of the indoor heat exchanger to prevent the condensing pressure from increasing excessively.
When the temperature of indoor heat exchanger becomes too high, the high pressure protection works.
The indoor fan operates following the cold air prevention control. This mode continues until the temperature of indoor heat exchanger falls.

3. Defrosting

Defrosting starts when the temperature of outdoor heat exchanger becomes too low.
The compressor stops once, the indoor/outdoor fans stop, the 4-way valve reverses, and the compressor re-starts.
This mode continues until the temperature of outdoor heat exchanger rises or the fixed time passes.

d. AUTO CHANGE OVER ··· AUTO MODE OPERATION

Once desired temperature is set, unit operation is switched automatically between COOL and HEAT operation.

Mode selection

(1) Initial mode
When unit starts the operation with AUTO operation from OFF:
- If the room temperature is higher than the set temperature, operation starts in COOL mode.
- If the room temperature is equal to or lower than the set temperature, operation starts in HEAT mode.

(2) Mode change
COOL mode changes to HEAT mode when about 15 minutes have passed with the room temperature 1°C below the set temperature.
HEAT mode changes to COOL mode when about 15 minutes have passed with the room temperature 1°C above the set temperature.

NOTE 1

If 2 or more indoor units are operating in multi system, there might be a case that the indoor unit, which is operating in ▭ (AUTO), cannot change over to the other operating mode (COOL ↔ HEAT) and becomes a state of standby.

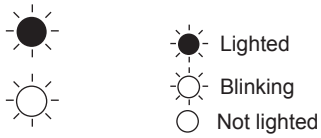
Refer to **NOTE 2 "FOR MULTI SYSTEM AIR CONDITIONER"**.

NOTE 2
FOR MULTI SYSTEM AIR CONDITIONER
OUTDOOR UNIT: MXZ series

Multi system air conditioner can connect 2 or more indoor units with one outdoor unit.

- When you try to operate 2 or more indoor units with one outdoor unit simultaneously, one for the cooling and the others for heating, the operation mode of the indoor unit that operates first is selected. Other indoor units cannot operate, and operation indicator lamp flashes as shown in the figure below. In this case, please set all the indoor units to the same operation mode.

OPERATION INDICATOR



- When indoor unit starts the operation while the defrosting of outdoor unit is being done, it takes a few minutes (max. 10 minutes) to blow out the warm air.
- In the heating operation, though indoor unit that does not operate may get warm or the sound of refrigerant flowing may be heard, they are not malfunction. The reason is that the refrigerant continuously flows into it.

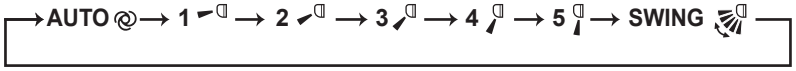
e. AUTO VANE OPERATION

1. Horizontal vane

(1) Vane motor drive

These models are equipped with a stepping motor for the horizontal vane. The rotating direction, speed, and angle of the motor are controlled by pulse signals (approximately 12 V) transmitted from indoor microprocessor.

(2) The horizontal vane angle and mode change as follows by pressing VANE CONTROL button.



(3) Positioning

To confirm the standard position, the vane moves until it touches the vane stopper. Then the vane is set to the selected angle.

Confirming of standard position is performed in the following cases:

(a) When the operation starts or finishes (including timer operation).
(b) When the test run starts.
(c) When standby mode (only during multi system operation) starts or finishes.

(4) VANE AUTO (@) mode

In VANE AUTO mode, the microprocessor automatically determines the vane angle to make the optimum room temperature distribution.

In COOL and DRY operation
Vane angle is fixed to Horizontal position.



In HEAT operation
Vane angle is fixed to Angle 5.



(5) STOP (operation OFF) and ON TIMER standby

In the following cases, the horizontal vane returns to the closed position.

(a) When STOP/OPERATE (OFF/ON) button is pressed (POWER OFF).
(b) When the operation is stopped by the emergency operation.
(c) When ON TIMER is ON standby.

(6) Dew prevention

During COOL or DRY operation with the vane angle at Angle 4 or 5 when the compressor cumulative operation time exceeds 1 hour, the vane angle automatically changes to Angle 1 for dew prevention.

(7) SWING ( ) mode
By selecting SWING mode with VANE CONTROL button, the horizontal vane swings vertically.

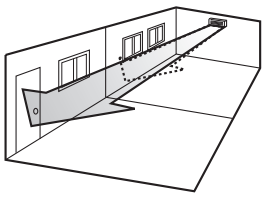
(8) Cold air prevention in HEAT operation
The horizontal vane position is set to Upward.
NOTE: When 2 or more indoor units are operated with multi outdoor unit, even if any indoor unit turns thermostat off, this control does not work in the indoor unit.

(9) ECONO COOL ( ) operation (ECONOmical operation)
When ECONO COOL button is pressed in COOL mode, set temperature is automatically set 2°C higher by the microprocessor. However, the temperature on the LCD screen on the remote controller is not changed. Also the horizontal vane swings in various cycle.
SWING operation makes you feel cooler than set temperature. So, even though the set temperature is higher, the air conditioner can keep comfort. As a result, energy can be saved.
To cancel this operation, select a different mode or press one of the following buttons in ECONO COOL operation: ECONO COOL, VANE CONTROL, LONG or POWERFUL button.

(10) POWERFUL ( ) operation
The air conditioner automatically adjusts the fan speed and the set temperature, and operates the POWERFUL mode. The POWERFUL mode is cancelled automatically 15 minutes after operation starts, or when POWERFUL button is pressed once again within 15 minutes after operation starts. The operation mode returns to the mode prior to POWERFUL operation. POWERFUL mode also is cancelled, when the STOP/OPERATE (OFF/ON), ECONO COOL, FAN SPEED CONTROL or i-save button is pressed within 15 minutes after operation starts, or operation mode is changed.

(11) LONG MODE ( )
By pressing LONG button indoor fan speed becomes faster than setting fan speed on the remote controller, and the horizontal vane moves to the position for LONG mode. The remote controller displays " ". LONG mode is cancelled when LONG button is pressed once again or STOP/OPERATE (OFF/ON) or VANE CONTROL button is pressed or ECONO COOL button is pressed in COOL mode. In the following example, the vertical vane is set to (front.).

COOL / DRY / HEAT / AUTO CHANGE OVER



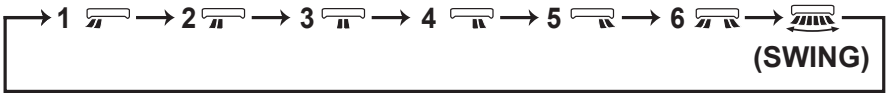
Fan speed : Faster
Solid arrow : When the LONG mode is used.
Dotted arrow : When the LONG mode is not used.

2. Vertical vane

(1) Vane motor drive
These models are equipped with a stepping motor for the vertical vane. The rotating direction, speed, and angle of the motor are controlled by pulse signals (approximately 12 V) transmitted from microprocessor.

(2) The vertical vane angle and mode change as follows by pressing WIDE VANE CONTROL button.

(3) Positioning
To confirm the standard position, the vane moves until it touches the vane stopper. Then the vane is set to the selected angle.



Confirmation of standard position is performed in the following cases:
(a) When STOP/OPERATE (OFF/ON) button is pressed (POWER ON).
(b) SWING is started.

(4) SWING ( ) MODE
By selecting SWING mode with WIDE VANE CONTROL button, the vertical vane swings horizontally. The remote controller displays " ". Swing mode is cancelled when WIDE MODE CONTROL button is pressed once again.

f. TIMER OPERATION

1. How to set the time

(1) Check that the current time is set correctly.

NOTE: Timer operation will not work without setting the current time. Initially “0:00” blinks at the current time display of TIME MONITOR, so set the current time correctly with CLOCK SET button.

How to set the current time

(a) Press the CLOCK set button.

(b) Press the TIME SET buttons (∧ and ∨) to set the current time.

- Each time FORWARD button (∧) is pressed, the set time increases by 1 minute, and each time BACKWARD button (∨) is pressed, the set time decreases by 1 minute.
- Pressing those buttons longer, the set time increases/decreases by 10 minutes.

(c) Press the CLOCK set button.

(2) Press STOP/OPERATE (OFF/ON) button to start the air conditioner.

(3) Set the time of timer.

ON timer setting

(a) Press ON TIMER button (ON) during operation.

(b) Set the time of the timer using TIME SET buttons (∧ and ∨). ※

OFF timer setting

(a) Press OFF TIMER button (OFF) during operation.

(b) Set the time of the timer using TIME SET buttons (∧ and ∨). ※

※ Each time FORWARD button (∧) is pressed, the set time increases by 10 minutes: each time BACKWARD button (∨) is pressed, the set time decreases by 10 minutes.

2. To release the timer

To release ON timer, press ON TIMER button (ON).

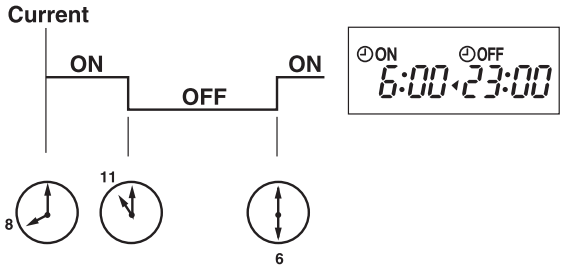
To release OFF timer, press OFF TIMER button(OFF).

TIMER is cancelled and the display of set time disappears.

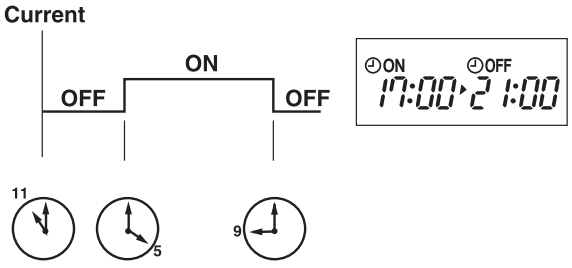
PROGRAM TIMER

- OFF timer and ON timer can be used in combination. The timer of the set time that is reached first will operate first.
- “◀” and “▶” display shows the order of OFF timer and ON timer operation.

(Example 1) The current time is 8:00 PM.
The unit turns off at 11:00 PM, and on at 6:00 AM.



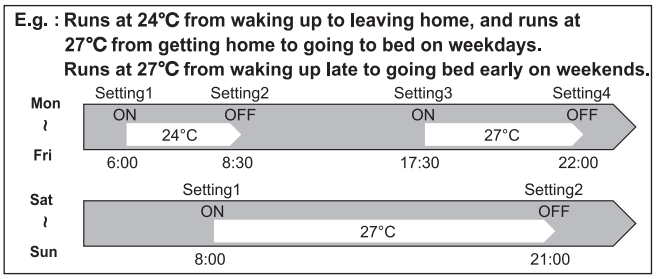
(Example 2) The current time is 11:00 AM.
The unit turns on at 5:00 PM, and off at 9:00 PM.



NOTE: If the main power is turned OFF or a power failure occurs while ON/OFF timer is active, the timer setting is cancelled. As these models are equipped with an auto restart function, the air conditioner starts operating with timer cancelled when power is restored.

g. WEEKLY TIMER OPERATION

• A maximum of 4 ON or OFF timers can be set for individual days of the week.
• A maximum of 28 ON or OFF timers can be set for a week.



NOTE:

• The simple ON/OFF timer setting is available while the weekly timer is on. In this case, the ON/OFF timer has priority over the weekly timer; the weekly timer operation will start again after the simple ON/OFF timer is complete.
• When the weekly timer is set, temperature can not be set to 10°C.
• The weekly timer operation and i-save operation cannot be used together.

1. How to set the weekly timer

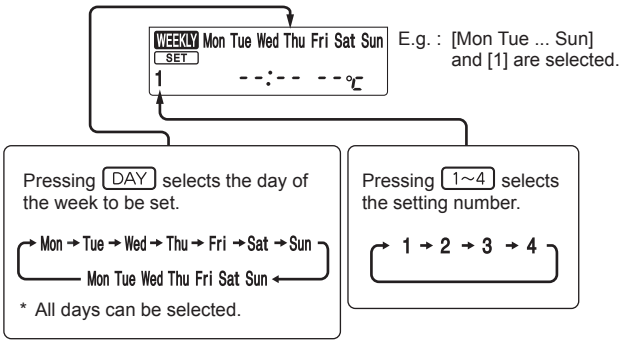
* Make sure that the current time and day are set correctly.

(1) Press EDIT/SEND SET button to enter the weekly timer setting mode.

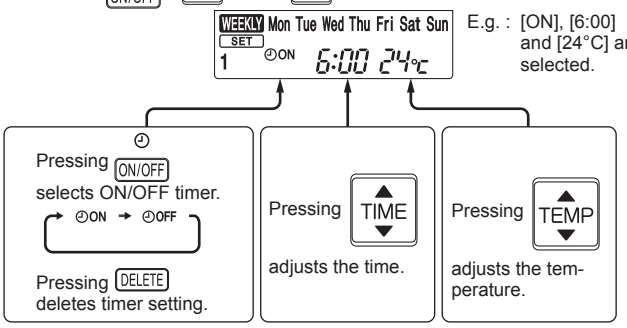


* SET blinks.

(2) Press DAY and 1~4 buttons to select setting day and number.



(3) Press ON/OFF , TIME , and TEMP buttons to set ON/OFF, time, and temperature.



* Hold down the button to change the time quickly.
* The temperature can be set between 16°C and 31°C at weekly timer.

Press DAY and 1~4 buttons to continue setting the timer for other days and/or numbers.

(4) Press EDIT/SEND SET button to complete and transmit the weekly timer setting.



* SET which was blinking goes out, and the current time will be displayed.

NOTE:

• Press EDIT/SEND SET button to transmit the setting information of weekly timer to the indoor unit. Point the remote controller toward the indoor unit for 3 seconds.
• When setting the timer for more than one day of the week or one number, EDIT/SEND SET button does not have to be pressed per each setting. Press EDIT/SEND SET button once after all the settings are complete. All the weekly timer settings will be saved.
• Press EDIT/SEND SET button to enter the weekly timer setting mode, and press and hold DELETE button for 5 seconds to erase all weekly timer settings. Point the remote controller toward the indoor unit.

(5) Press WEEKLY TIMER ON/OFF button to turn the weekly timer ON. (WEEKLY lights.)

•When the weekly timer is ON, the day of the week whose timer setting is complete, will light.

Press WEEKLY TIMER ON/OFF button again to turn the weekly timer OFF. (WEEKLY goes out.)

NOTE:
The saved settings will not be cleared when the weekly timer is turned OFF.

2. Checking weekly timer setting

(1) Press EDIT/SEND SET button to enter the weekly timer setting mode.

*SET blinks.

(2) Press DAY or 1~4 buttons to view the setting of the particular day or number.

(3) Press CANCEL button to exit the weekly timer setting.

NOTE:
When all days of the week are selected to view the settings and a different setting is included among them, --:-- --℃ will be displayed.

h. i-save (🔊) OPERATION

1. How to set i-save operation

(1) Press STOP/OPERATE (OFF/ON) button.
(2) Select COOL, HEAT or ECONO COOL mode.
(3) Press i-save button.
(4) Set the temperature, fan speed, and airflow direction for i-save operation.

NOTE:
- i-save operation cannot be selected during DRY or AUTO mode operation.
- The setting range of HEAT mode i-save operation is 10°C and 16 - 31°C.
- 2 groups of setting can be saved. (One for COOL/ECONO COOL, one for HEAT)
- i-save operation and the weekly timer operation cannot be used together.

2. How to cancel operation

- Press i-save button again.
- i-save operation can also be cancelled by pressing OPERATION SELECT button to change the operation mode. The same setting is select from the next time by simply pressing i-save button.

i. EMERGENCY/TEST OPERATION

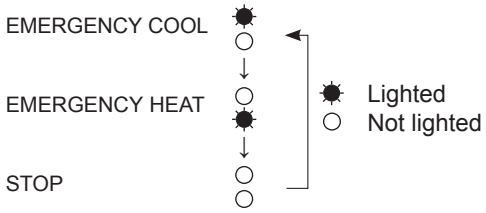
In the case of test run operation or emergency operation, use EMERGENCY OPERATION switch on the right side of the indoor unit.
Emergency operation is available when the remote controller is missing or has failed, or when the batteries in the remote controller are running down.
The unit will start and OPERATION INDICATOR lamp will light up.
The first 30 minutes of operation is the test run operation. This operation is for servicing. The indoor fan runs at High speed and the temperature control does not work.
After 30 minutes of test run operation, the system shifts to EMERGENCY COOL/HEAT MODE with a set temperature of 24°C. The fan speed shifts to Med.
The coil frost prevention works even in the test run or the emergency operation.
In the test run or emergency operation, the horizontal vane operates in VANE AUTO (@) mode.
Emergency operation continues until EMERGENCY OPERATION switch is pressed once or twice or the unit receives any signal from the remote controller. In the latter case, normal operation will start.

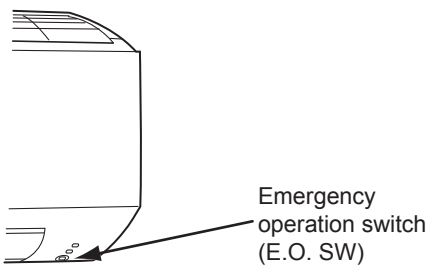
NOTE: Do not press EMERGENCY OPERATION switch during normal operation.

Operation mode	COOL/HEAT
Set temperature	24°C
Fan speed	Med.
Horizontal vane	Auto

The operation mode is indicated by the Operation Indicator lamp as follows:

Operation Indicator lamp





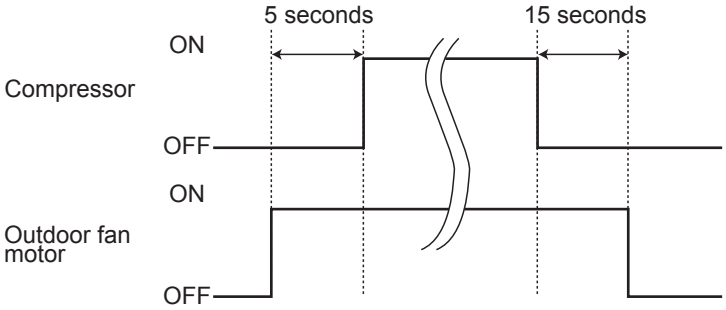
j. 3-MINUTE TIME DELAY OPERATION

When the system turns OFF, compressor will not restart for 3 minutes as 3-minute time delay function operates to protect compressor from overload.

k. ACTUATOR CONTROL

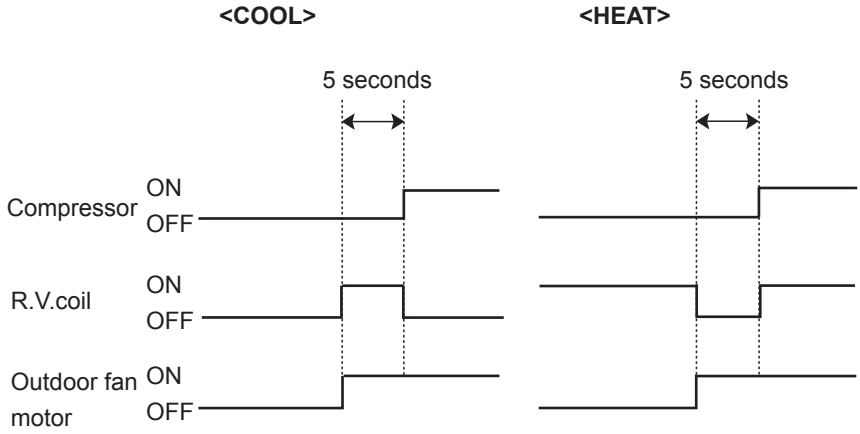
k-1. Outdoor fan motor control

The fan motor turns ON/OFF, interlocking with the compressor.
[ON] The fan motor turns ON 5 seconds before the compressor starts up.
[OFF] The fan motor turns OFF 15 seconds after the compressor has stopped running.



k-2. R.V. coil control

Heating · · · · · · · · · · · · · · · · · · ON
Cooling · · · · · · · · · · · · · · · · · · OFF
Dry · OFF
NOTE: The 4-way valve reverses for 5 seconds right before start-up of the compressor.



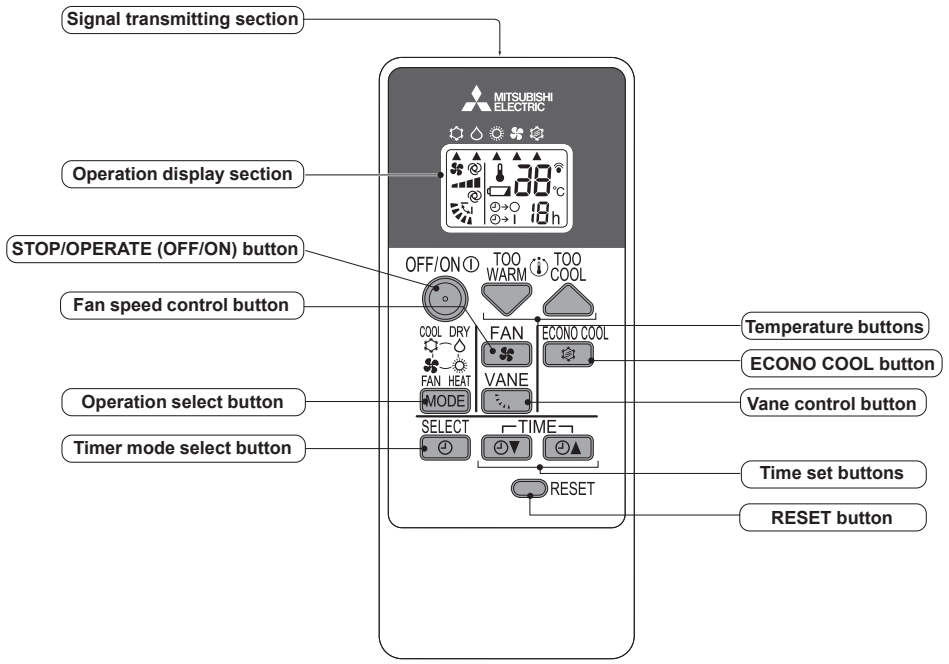
k-3. Relation between main sensor and actuator

Sensor	Purpose	Actuator					
		Compressor	LEV	Outdoor fan motor	R.V.coil	Indoor fan motor	Defrost heater
Discharge temperature thermistor	Protection	○	○				
Indoor coil temperature thermistor	Cooling: Coil frost prevention	○					
	Heating: High pressure protection	○	○				
Defrost thermistor	Heating: Defrosting	○	○	○	○	○	
Fin temperature thermistor	Protection	○		○			
Ambient temperature thermistor	Cooling: Low ambient temperature operation	○	○	○			
	Heating: Defrosting (Heater)						○
Outdoor heat exchanger temperature thermistor	Cooling: Low ambient temperature operation	○	○	○			
	Cooling: High pressure protection	○	○	○			

C.1.9.5 MSZ-DM•VA Series

MSZ-DM25VA MUZ-DM25VA
MSZ-DM35VA MUZ-DM35VA

WIRELESS REMOTE CONTROLLER



NOTE : Last setting will be stored after the unit is turned OFF with the remote controller. Indoor unit receives the signal of the remote controller with beeps.

INDOOR UNIT DISPLAY SECTION

Operation Indicator lamp

The operation indicator at the right side of the indoor unit indicates the operation state.

•The following indication applies regardless of shape of the indication.

Indication	Operation state	Room temperature
☀ ☀	The unit is operating to reach the set temperature	About 2°C or more away from set temperature
☀ ○	The room temperature is approaching the set temperature	About 1 to 2°C from set temperature
☀ ☼	Standby mode (Only during multi system operation)	—

☀ Lighted
☼ Blinking
○ Not lighted

a. COOL (☼) OPERATION

(1) Press STOP/OPERATE (OFF/ON) button.
OPERATION INDICATOR lamp of the indoor unit turns on with a beep tone.
(2) Select COOL mode with OPERATION SELECT button.
(3) Press TEMPERATURE buttons (TOO WARM or TOO COOL button) to select the desired temperature.
The setting range is 16 ~ 31°C.

1. Coil frost prevention

The compressor operational frequency is controlled by the temperature of the indoor heat exchanger to prevent the coil from frosting.
When the temperature of indoor heat exchanger becomes too low, the coil frost prevention mode works. The indoor fan operates at the set speed and the compressor stops. This mode continues until the temperature of indoor heat exchanger rises.

b. DRY (△) OPERATION

(1) Press STOP/OPERATE (OFF/ON) button.
OPERATION INDICATOR lamp of the indoor unit turns on with a beep tone.
(2) Select DRY mode with OPERATION SELECT button.
(3) The set temperature is determined from the initial room temperature.

1. Coil frost prevention
Coil frost prevention works the same way as that in COOL mode. (a.1.)

c. HEAT (☼) OPERATION

(1) Press STOP/OPERATE (OFF/ON) button.
OPERATION INDICATOR lamp of the indoor unit turns on with a beep tone.
(2) Select HEAT mode with OPERATION SELECT button.
(3) Press TEMPERATURE buttons (TOO WARM or TOO COOL button) to select the desired temperature.
The setting range is 16 ~ 31°C.

1. Cold air prevention control
When the compressor is not operating or is starting, and the temperature of indoor heat exchanger and/or the room temperature is low or when defrosting is being done, the indoor fan will stop or rotate in Very Low speed.

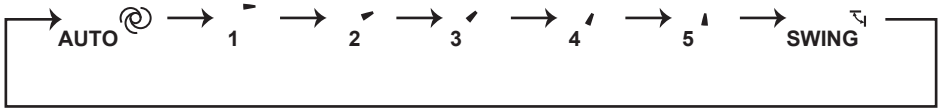
2. High pressure protection
The compressor operational frequency is controlled by the temperature of the indoor heat exchanger to prevent the condensing pressure from increasing excessively.
When the temperature of indoor heat exchanger becomes too high, the high pressure protection works.
The indoor fan operates following the cold air prevention control. This mode continues until the temperature of indoor heat exchanger falls.

3. Defrosting
Defrosting starts when the temperature of outdoor heat exchanger becomes too low.
The compressor stops once, the indoor/outdoor fans stop, the 4-way valve reverses, and the compressor re-starts.
This mode continues until the temperature of outdoor heat exchanger rises or the fixed time passes.

d. AUTO VANE OPERATION

1. Horizontal vane

(1) Vane motor drive
These models are equipped with a stepping motor for the horizontal vane. The rotating direction, speed, and angle of the motor are controlled by pulse signals (approximately 12 V) transmitted from indoor microprocessor.
(2) The horizontal vane angle and mode change as follows by pressing VANE CONTROL button.



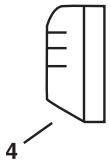
(3) Positioning
To confirm the standard position, the vane moves until it touches the vane stopper. Then the vane is set to the selected angle.
Confirmation of standard position is performed in the following cases:
(a) When the operation starts or finishes (including timer operation).
(b) When the test run starts.
(c) When standby mode (only during multi system operation) starts or finishes.

(4) VANE AUTO (◎) mode
In VANE AUTO mode, the microprocessor automatically determines the vane angle to make the optimum room temperature distribution.

In COOL and DRY operation
Vane angle is fixed to Horizontal position.



In HEAT operation
Vane angle is fixed to Angle 4.



(5) STOP (operation OFF) and ON TIMER standby
In the following cases, the horizontal vane returns to the closed position.
(a) When STOP/OPERATE (OFF/ON) button is pressed (POWER OFF).
(b) When the operation is stopped by the emergency operation.
(c) When ON TIMER is ON standby.

(6) Dew prevention
During COOL or DRY operation with the vane angle at Angle 3 ~ 5 when the compressor cumulative operation time exceeds 1 hour, the vane angle automatically changes to Angle 2 for dew prevention.

(7) SWING ( ) mode
By selecting SWING mode with VANE CONTROL button, the horizontal vane swings vertically.

(8) Cold air prevention in HEAT operation.
The horizontal vane position is set to Upward.
NOTE: When 2 or more indoor units are operated with multi outdoor unit, even if any indoor unit turns thermostat off, this control does not work in the indoor unit.

(9) ECONO COOL ( ) operation (ECONOmical operation)
When ECONO COOL button is pressed in COOL mode, set temperature is automatically set 2°C higher.
Also the horizontal vane swings in various cycle.
SWING operation makes you feel cooler than set temperature. So, even though the set temperature is higher, the air conditioner can keep comfort. As a result, energy can be saved.
ECONO COOL operation is cancelled when ECONO COOL button is pressed once again or VANE CONTROL button is pressed or change to other operation mode.

e. TIMER OPERATION (ON/OFF TIMER)

1. How to set the timer

(1) Press STOP/OPERATE (OFF/ON) button to start the air conditioner.

(2) Select the timer mode by pressing the SELECT button during operation.
Each time this button is pressed, the timer mode is changed in sequence:
(OFF TIMER) → (ON TIMER) → TIMER RELEASE

(3) Set the time of the timer using the TIME button.
Each time this button is pressed, the set time increase or decrease by 1 hour to 12 hours.

2. To release the timer

Press the SELECT button until (OFF TIMER) and (ON TIMER) are not displayed.

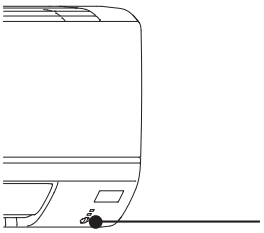
NOTE :

- The OFF TIMER and the ON TIMER cannot be set at the same time.
- The displayed time is the time remaining and will decrease in 1-hour increments as time passes.

f. EMERGENCY/TEST OPERATION

In the case of test run operation or emergency operation, use EMERGENCY OPERATION switch on the right side of the indoor unit. Emergency operation is available when the remote controller is missing or has failed, or when the batteries in the remote controller are running down. The unit will start and OPERATION INDICATOR lamp will light up.
The first 30 minutes of operation is the test run operation. This operation is for servicing. The indoor fan runs at High speed and the temperature control does not work.
After 30 minutes of test run operation, the system shifts to EMERGENCY COOL/HEAT MODE with a set temperature of 24°C. The fan speed shifts to Med.
The coil frost prevention works even in the test run or the emergency operation.
In the test run or emergency operation, the horizontal vane operates in VANE AUTO (@) mode.
Emergency operation continues until EMERGENCY OPERATION switch is pressed once or twice or the unit receives any signal from the remote controller. In the latter case, normal operation will start.

NOTE: Do not press EMERGENCY OPERATION switch during normal operation.

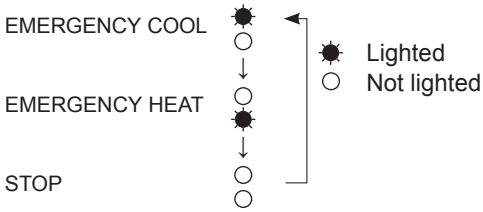


EMERGENCY OPERATION switch

Operation mode	COOL	HEAT
Set temperature	24°C	24°C
Fan speed	Med.	Med.
Horizontal vane	Auto	Auto

The operation mode is indicated by the Operation Indicator lamp as follows:

Operation Indicator lamp



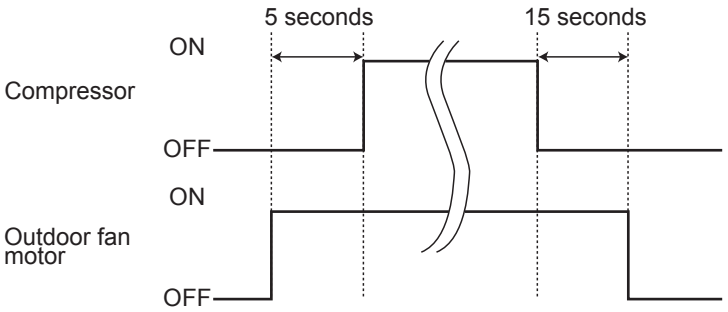
g. 3-MINUTE TIME DELAY OPERATION

When the system turns OFF, compressor will not restart for 3 minutes as 3-minute time delay function operates to protect compressor from overload.

h. ACTUATOR CONTROL

h-1. Outdoor fan motor control

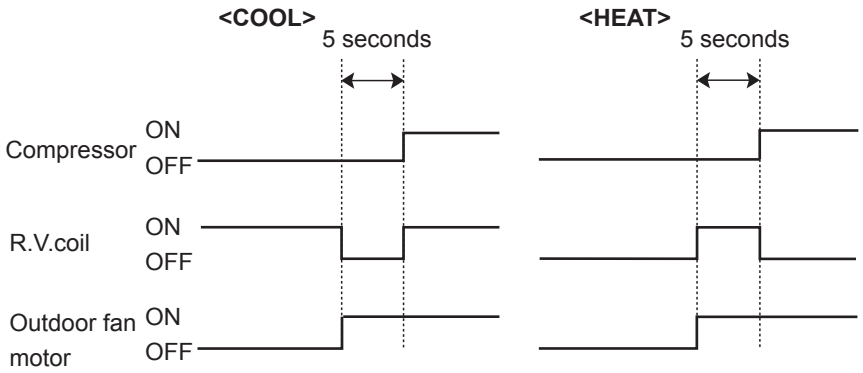
The fan motor turns ON/OFF, interlocking with the compressor.
[ON] The fan motor turns ON 5 seconds before the compressor starts up.
[OFF] The fan motor turns OFF 15 seconds after the compressor has stopped running.



h-2. R.V. Coil control

Heating · · · · · · · · · · · · · · · · · OFF
Cooling · · · · · · · · · · · · · · · · · ON
Dry · · · · · · · · · · · · · · · · · · · ON

NOTE: The 4-way valve reverses for 5 seconds right before start-up of the compressor.



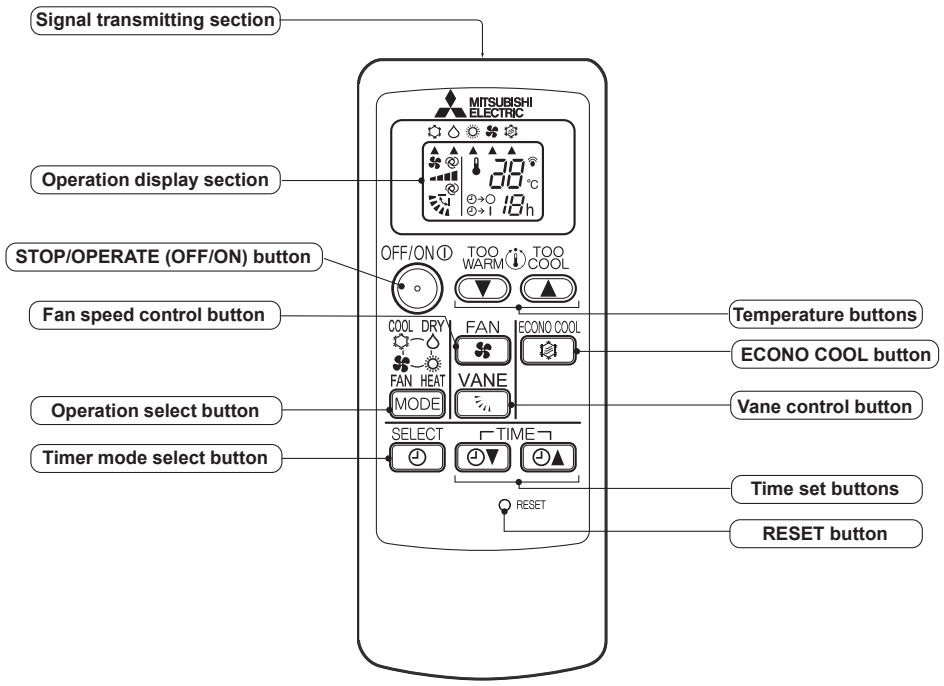
h-3. Relation between main sensor and actuator

Sensor	Purpose	Actuator				
		Compressor	LEV	Outdoor fan motor	R.V. coil	Indoor fan motor
Discharge temperature thermistor	Protection	○	○			
Indoor coil temperature thermistor	Cooling: Coil frost prevention	○				
	Heating: High pressure protection	○				
Defrost thermistor	Cooling: High pressure protection	○	○	○		
	Heating: Defrosting	○	○	○	○	○
Fin temperature thermistor	Protection	○		○		

C.1.9.6 MSZ-HJ•VA Series

MSZ-HJ25VA MUZ-HJ25VA
MSZ-HJ35VA MUZ-HJ35VA
MSZ-HJ50VA MUZ-HJ50VA
MSZ-HJ60VA MUZ-HJ60VA
MSZ-HJ71VA MUZ-HJ71VA

WIRELESS REMOTE CONTROLLER



NOTE: Last setting will be stored after the unit is turned OFF with the remote controller. Indoor unit receives the signal of the remote controller with beeps.

INDOOR UNIT DISPLAY SECTION

Operation Indicator lamp

The operation indicator at the right side of the indoor unit indicates the operation state.

•The following indication applies regardless of shape of the indication.

Indication	Operation state	Room temperature
☀ ☀	The unit is operating to reach the set temperature.	About 2°C or more away from set temperature
☀ ○	The room temperature is approaching the set temperature.	About 1 to 2°C from set temperature
☀ ☼	Standby mode (Only during multi system operation)	—

☀ Lighted
☼ Blinking
○ Not lighted

a. COOL (☼) OPERATION

(1) Press STOP/OPERATE (OFF/ON) button.
OPERATION INDICATOR lamp of the indoor unit turns on with a beep tone.
(2) Select COOL mode with OPERATION SELECT button.
(3) Press TEMPERATURE buttons (TOO WARM or TOO COOL button) to select the desired temperature.
The setting range is 16 ~ 31°C.

1. Coil frost prevention

The compressor operational frequency is controlled by the temperature of the indoor heat exchanger to prevent the coil from frosting.
When the temperature of indoor heat exchanger becomes too low, the coil frost prevention mode works. The indoor fan operates at the set speed and the compressor stops. This mode continues until the temperature of indoor heat exchanger rises.

b. DRY (△) OPERATION

(1) Press STOP/OPERATE (OFF/ON) button.
OPERATION INDICATOR lamp of the indoor unit turns on with a beep tone.
(2) Select DRY mode with OPERATION SELECT button.
(3) The set temperature is determined from the initial room temperature.

1. Coil frost prevention
Coil frost prevention works the same way as that in COOL mode. (a.1.)

c. HEAT (☼) OPERATION

(1) Press STOP/OPERATE (OFF/ON) button.
OPERATION INDICATOR lamp of the indoor unit turns on with a beep tone.
(2) Select HEAT mode with OPERATION SELECT button.
(3) Press TEMPERATURE buttons (TOO WARM or TOO COOL button) to select the desired temperature.
The setting range is 16 ~ 31°C.

1. Cold air prevention control
When the compressor is not operating or is starting, and the temperature of indoor heat exchanger and/or the room temperature is low or when defrosting is being done, the indoor fan will stop or rotate in Very Low speed.

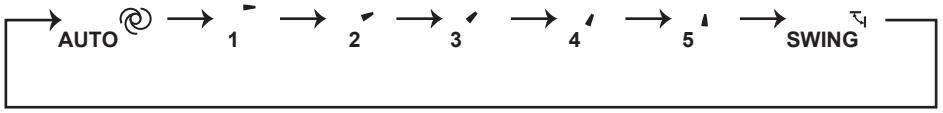
2. High pressure protection
The compressor operational frequency is controlled by the temperature of the indoor heat exchanger to prevent the condensing pressure from increasing excessively.
When the temperature of indoor heat exchanger becomes too high, the high pressure protection works.
The indoor fan operates following the cold air prevention control. This mode continues until the temperature of indoor heat exchanger falls.

3. Defrosting
Defrosting starts when the temperature of outdoor heat exchanger becomes too low.
The compressor stops once, the indoor/outdoor fans stop, the 4-way valve reverses, and the compressor re-starts.
This mode continues until the temperature of outdoor heat exchanger rises or the fixed time passes.

d. AUTO VANE OPERATION

1. Horizontal vane

(1) Vane motor drive
These models are equipped with a stepping motor for the horizontal vane. The rotating direction, speed, and angle of the motor are controlled by pulse signals (approximately 12 V) transmitted from indoor microprocessor.
(2) The horizontal vane angle and mode change as follows by pressing VANE CONTROL button.



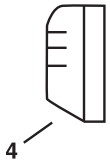
(3) Positioning
To confirm the standard position, the vane moves until it touches the vane stopper. Then the vane is set to the selected angle.
Confirmation of standard position is performed in the following cases:
(a) When the operation starts or finishes (including timer operation).
(b) When the test run starts.
(c) When standby mode (only during multi system operation) starts or finishes.

(4) VANE AUTO (◎) mode
In VANE AUTO mode, the microprocessor automatically determines the vane angle to make the optimum room temperature distribution.

In COOL and DRY operation
Vane angle is fixed to Horizontal position.



In HEAT operation
Vane angle is fixed to Angle 4.



(5) STOP (operation OFF) and ON TIMER standby
In the following cases, the horizontal vane returns to the closed position.
(a) When STOP/OPERATE (OFF/ON) button is pressed (POWER OFF).
(b) When the operation is stopped by the emergency operation.
(c) When ON TIMER is ON standby.

(6) Dew prevention
During COOL or DRY operation with the vane angle at Angle 3 ~ 5 when the compressor cumulative operation time exceeds 1 hour, the vane angle automatically changes to Angle 2 for dew prevention.

(7) SWING ( ) mode
By selecting SWING mode with VANE CONTROL button, the horizontal vane swings vertically.

(8) Cold air prevention in HEAT operation.
The horizontal vane position is set to Upward.
NOTE: When 2 or more indoor units are operated with multi outdoor unit, even if any indoor unit turns thermostat off, this control does not work in the indoor unit.

(9) ECONO COOL ( ) operation (ECONOmical operation)
When ECONO COOL button is pressed in COOL mode, set temperature is automatically set 2°C higher.
Also the horizontal vane swings in various cycle.
SWING operation makes you feel cooler than set temperature. So, even though the set temperature is higher, the air conditioner can keep comfort. As a result, energy can be saved.
ECONO COOL operation is cancelled when ECONO COOL button is pressed once again or VANE CONTROL button is pressed or change to other operation mode.

e. TIMER OPERATION (ON/OFF TIMER)

1. How to set the timer

(1) Press STOP/OPERATE (OFF/ON) button to start the air conditioner.

(2) Select the timer mode by pressing the SELECT button during operation.
Each time this button is pressed, the timer mode is changed in sequence:
(OFF TIMER) → (ON TIMER) → TIMER RELEASE

(3) Set the time of the timer using the TIME button.
Each time this button is pressed, the set time increase or decrease by 1 hour to 12 hours.

2. To release the timer

Press the SELECT button until (OFF TIMER) and (ON TIMER) are not displayed.

NOTE :
- The OFF TIMER and the ON TIMER cannot be set at the same time.
- The displayed time is the time remaining and will decrease in 1-hour increments as time passes.

f. EMERGENCY/TEST OPERATION

In the case of test run operation or emergency operation, use EMERGENCY OPERATION switch on the right side of the indoor unit. Emergency operation is available when the remote controller is missing or has failed, or when the batteries in the remote controller are running down. The unit will start and OPERATION INDICATOR lamp will light up.
The first 30 minutes of operation is the test run operation. This operation is for servicing. The indoor fan runs at High speed and the temperature control does not work.
After 30 minutes of test run operation, the system shifts to EMERGENCY COOL/HEAT MODE with a set temperature of 24°C. The fan speed shifts to Med.
The coil frost prevention works even in the test run or the emergency operation.
In the test run or emergency operation, the horizontal vane operates in VANE AUTO (@) mode.
Emergency operation continues until EMERGENCY OPERATION switch is pressed once or twice or the unit receives any signal from the remote controller. In the latter case, normal operation will start.

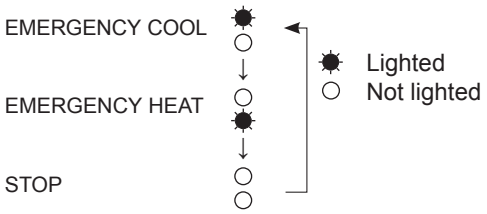
NOTE: Do not press EMERGENCY OPERATION switch during normal operation.



Operation mode	COOL	HEAT
Set temperature	24°C	24°C
Fan speed	Med.	Med.
Horizontal vane	Auto	Auto

The operation mode is indicated by the Operation Indicator lamp as follows:

Operation Indicator lamp



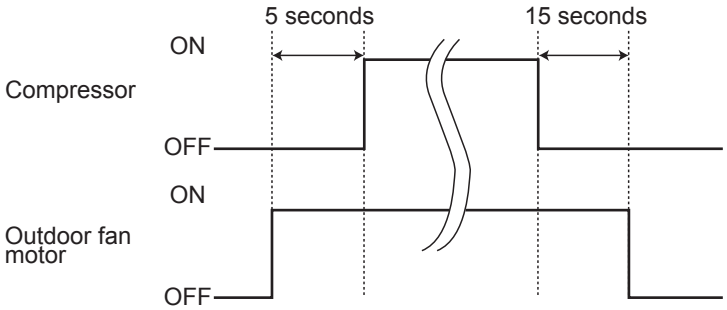
g. 3-MINUTE TIME DELAY OPERATION

When the system turns OFF, compressor will not restart for 3 minutes as 3-minute time delay function operates to protect compressor from overload.

h. ACTUATOR CONTROL

h-1. Outdoor fan motor control

The fan motor turns ON/OFF, interlocking with the compressor.
[ON] The fan motor turns ON 5 seconds before the compressor starts up.
[OFF] The fan motor turns OFF 15 seconds after the compressor has stopped running.

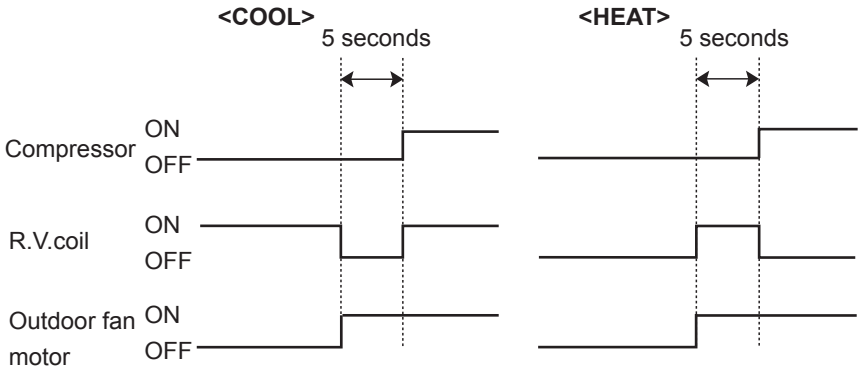


h-2. R.V. coil control

MUZ-HJ25VA MUZ-HJ35VA

Heating · · · · · · · · · · · · · · · · · · OFF
Cooling · · · · · · · · · · · · · · · · · · ON
Dry · ON

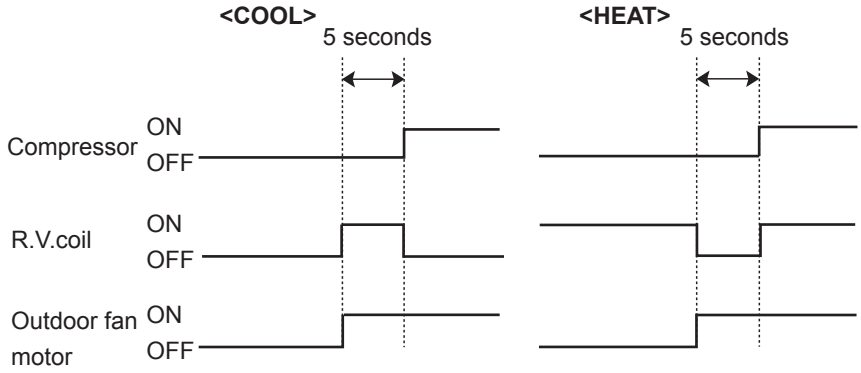
NOTE: The 4-way valve reverses for 5 seconds right before start-up of the compressor.



MUZ-HJ50VA MUZ-HJ60VA MUZ-HJ71VA

Heating · · · · · · · · · · · · · · · · · · ON
Cooling · · · · · · · · · · · · · · · · · · OFF
Dry · OFF

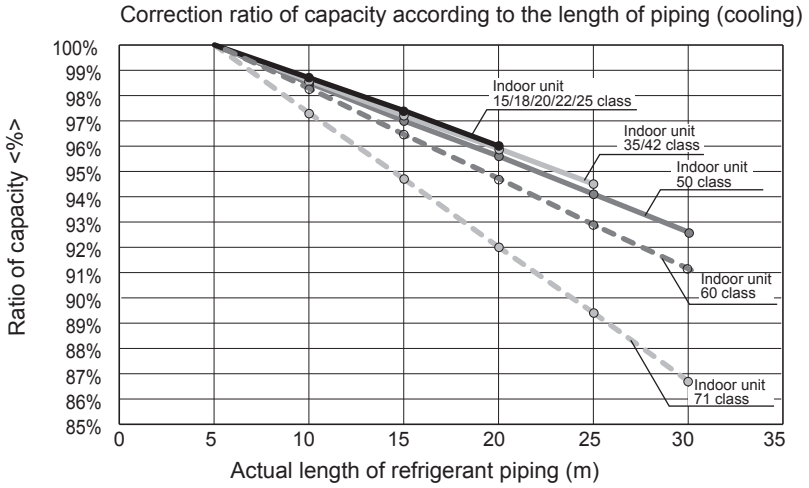
NOTE: The 4-way valve reverses for 5 seconds right before start-up of the compressor.

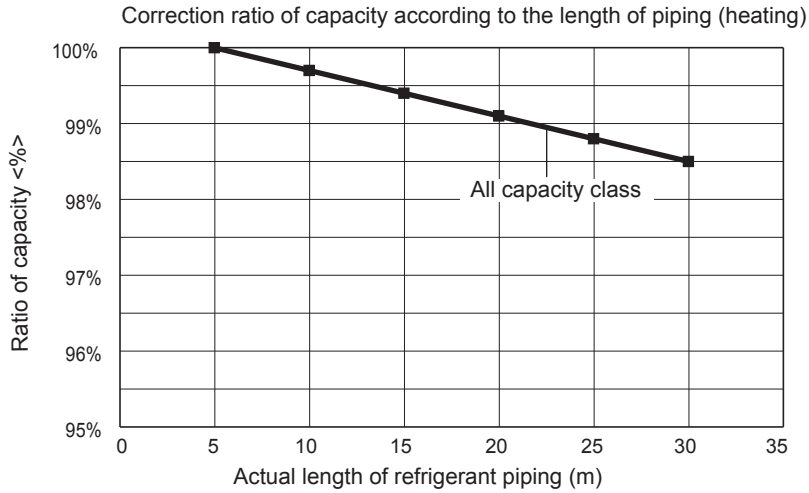


h-3. Relation between main sensor and actuator

Sensor	Purpose	Actuator				
		Compressor	LEV	Outdoor fan motor	R.V. coil	Indoor fan motor
Discharge temperature thermistor	Protection	○	○			
Indoor coil temperature thermistor	Cooling: Coil frost prevention	○				
	Heating: High pressure protection	○				
Defrost thermistor	Cooling: High pressure protection	○	○	○		
	Heating: Defrosting	○	○	○	○	○
Fin temperature thermistor	Protection	○		○		

C.1.10 CAPACITY CORRECTION RATIO CURVE FOR PIPING LENGTH





The length intended for the capacity calculation, which counts the length of refrigerant piping and the number of bends, is called actual length.

Length of refrigerant piping (m) + (Number of bends × 0.3 m) = Actual length of refrigerant piping (m)

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C.2.1 SPECIFICATIONS

C.2.1.1 Inverter Heat Pump

					MFZ-KJ25VE2	MFZ-KJ35VE2	MFZ-KJ50VE2
Indoor Unit					MFZ-KJ25VE	MFZ-KJ35VE	MFZ-KJ50VE
Outdoor Unit					MUFZ-KJ25VE	MUFZ-KJ35VE	MUFZ-KJ50VE
Refrigerant					R410A(*1)	R410A(*1)	R410A(*1)
Power Supply	Source				Outdoor Power supply	Outdoor Power supply	Outdoor Power supply
	Outdoor (V/Phase/Hz)				230V/Single/50Hz	230V/Single/50Hz	230V/Single/50Hz
Cooling	Capacity	Rated		kW	2.5	3.5	5.0
		Min. - Max.		kW	0.5 - 3.4	0.5 - 3.7	1.6 - 5.7
	SHF				0.85	0.73	0.71
	Total Input	Rated		kW	0.540	0.940	1.410
	EER				4.63	3.72	3.55
		EEL Rank			A	A	A
	Design load			kW	2.5	3.5	5.0
	Annual electricity consumption (*2)			kWh/a	102	150	266
	SEER				8.5	8.1	6.5
		Energy efficiency class			A+++	A++	A++
Heating (Average Season)	Capacity	Rated		kW	3.4	4.3	6.0
		Min. - Max.		kW	1.2 - 4.6	1.2 - 5.5	2.2 - 8.2
	Total Input	Rated		kW	0.770	1.100	1.610
	COP				4.42	3.91	3.73
		EEL Rank			A	A	A
	Design load			kW	3.4(-10°C)	3.5(-10°C)	4.4(-10°C)
	Declared Capacity	at reference design temperature		kW	3.4(-10°C)	3.5(-10°C)	4.4(-10°C)
		at bivalent temperature		kW	3.4(-10°C)	3.5(-10°C)	4.4(-10°C)
		at operation limit temperature		kW	2.4(-15°C)	2.9(-15°C)	6.0(-15°C)
	Back up heating capacity			kW	0.0(-10°C)	0.0(-10°C)	0.0(-10°C)
	Annual electricity consumption (*2)			kWh/a	1059	1110	1406
	SCOP				4.5	4.4	4.3
		Energy efficiency class			A+	A+	A+
Operating Current (Max.)				A	9.4	9.4	14.0
Indoor Unit	Input	Rated		kW	0.016	0.016	0.038
	Operating Current (Max.)			A	0.17	0.17	0.34
	Dimensions	H x W x D		mm	600 x 750 x 215	600 x 750 x 215	600 x 750 x 215
	Weight			kg	15	15	15
	Air Volume	Cooling		m^3/min.	3.9 - 4.9 - 5.9 - 7.1 - 8.2	3.9 - 4.9 - 5.9 - 7.1 - 8.2	5.6 - 6.7 - 8.0 - 9.3 - 10.6
	(Silent-Lo-Mid-Hi-SHi (*3) (Dry/Wet))	Heating		m^3/min.	3.9 - 5.1 - 6.2 - 7.7 - 9.7	3.9 - 5.1 - 6.2 - 7.7 - 9.7	6.0 - 7.4 - 9.4 - 11.6 - 14.0
	Sound Level (SPL)	Cooling		dB(A)	20 - 25 - 30 - 35 - 39	20 - 25 - 30 - 35 - 39	27 - 31 - 35 - 39 - 44
	(Silent-Lo-Mid-Hi-SHi (*3))	Heating		dB(A)	19 - 25 - 30 - 35 - 41	19 - 25 - 30 - 35 - 41	29 - 35 - 40 - 45 - 50
	Sound Level (PWL)	Cooling		dB(A)	49	50	56
Outdoor Unit	Dimensions	H x W x D		mm	550 x 800 x 285	550 x 800 x 285	880 x 840 x 330
	Weight			kg	37	37	55
	Air Volume	Cooling		m^3/min.	31.3	31.3	45.8
		Heating		m^3/min.	33.6	33.6	45.8
	Sound Level (SPL)	Cooling		dB(A)	46	47	49
		Heating		dB(A)	51	51	51
	Sound Level (PWL)	Cooling		dB(A)	59	60	63
	Operating Current (Max.)			A	9.2	9.2	13.6
	Breaker Size			A	10	10	16
Ext.Piping	Diameter	Liquid/Gas		mm	6.35/9.52	6.35/9.52	6.35/12.7
	Max.Length	Out-In		m	20	20	30
	Max.Height	Out-In		m	12	12	15
Guaranteed Operating Range (Outdoor)		Cooling		°C	-10 ~ +46	-10 ~ +46	-10 ~ +46
		Heating		°C	-15 ~ +24	-15 ~ +24	-15 ~ +24

(*1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO_2 , over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

(*2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

(*3) SHi: Super High.

Indoor Unit				MFZ-KJ25VE2	MFZ-KJ35VE2	MFZ-KJ50VE2
Outdoor Unit				MUFZ-KJ25VEHZ	MUFZ-KJ35VEHZ	MUFZ-KJ50VEHZ
Refrigerant				R410A(*1)	R410A(*1)	R410A(*1)
Power Supply	Source			Outdoor Power supply	Outdoor Power supply	Outdoor Power supply
	Outdoor (V/Phase/Hz)			230V/Single/50Hz	230V/Single/50Hz	230V/Single/50Hz
Cooling	Capacity	Rated	kW	2.5	3.5	5.0
		Min. - Max.	kW	0.5 - 3.4	0.5 - 3.7	1.6 - 5.7
	SHF			0.85	0.73	0.71
	Total Input	Rated	kW	0.540	0.940	1.410
	EER			4.63	3.72	3.55
		EEL Rank		A	A	A
	Design load		kW	2.5	3.5	5.0
	Annual electricity consumption (*2)		kWh/a	102	150	266
	SEER			8.5	8.1	6.5
		Energy efficiency class		A+++	A++	A++
Heating (Average Season)	Capacity	Rated	kW	3.4	4.3	6.0
		Min. - Max.	kW	1.2 - 5.1	1.2 - 5.8	2.2 - 8.4
	Total Input	Rated	kW	0.770	1.100	1.610
	COP			4.42	3.91	3.73
		EEL Rank		A	A	A
	Design load		kW	3.5(-10°C)	3.6(-10°C)	4.5(-10°C)
	Declared Capacity	at reference design temperature	kW	3.5(-10°C)	3.6(-10°C)	4.5(-10°C)
		at bivalent temperature	kW	3.5(-10°C)	3.6(-10°C)	4.5(-10°C)
		at operation limit temperature	kW	1.6(-25°C)	2.3(-25°C)	3.3(-25°C)
	Back up heating capacity		kW	0.0(-10°C)	0.0(-10°C)	0.0(-10°C)
	Annual electricity consumption (*2)		kWh/a	1104	1158	1467
	SCOP			4.4	4.3	4.2
		Energy efficiency class		A+	A+	A+
Operating Current (Max.)			A	9.4	10.2	14.0
Indoor Unit	Input	Rated	kW	0.016	0.016	0.038
	Operating Current (Max.)		A	0.17	0.17	0.34
	Dimensions	H x W x D	mm	600 x 750 x 215	600 x 750 x 215	600 x 750 x 215
	Weight		kg	15	15	15
	Air Volume	Cooling	m^3/min.	3.9 - 4.9 - 5.9 - 7.1 - 8.2	3.9 - 4.9 - 5.9 - 7.1 - 8.2	5.6 - 6.7 - 8.0 - 9.3 - 10.6
	(Silent-Lo-Mid-Hi-SHi (*3) (Dry/Wet))	Heating	m^3/min.	3.9 - 5.1 - 6.2 - 7.7 - 9.7	3.9 - 5.1 - 6.2 - 7.7 - 9.7	6.0 - 7.4 - 9.4 - 11.6 - 14.0
	Sound Level (SPL)	Cooling	dB(A)	20 - 25 - 30 - 35 - 39	20 - 25 - 30 - 35 - 39	27 - 31 - 35 - 39 - 44
	(Silent-Lo-Mid-Hi-SHi (*3))	Heating	dB(A)	19 - 25 - 30 - 35 - 41	19 - 25 - 30 - 35 - 41	29 - 35 - 40 - 45 - 50
	Sound Level (PWL)	Cooling	dB(A)	49	50	56
Outdoor Unit	Dimensions	H x W x D	mm	550 x 800 x 285	550 x 800 x 285	880 x 840 x 330
	Weight		kg	37	37	55
	Air Volume	Cooling	m^3/min.	31.3	31.3	45.8
		Heating	m^3/min.	33.6	33.6	45.8
	Sound Level (SPL)	Cooling	dB(A)	46	47	49
		Heating	dB(A)	51	51	51
	Sound Level (PWL)	Cooling	dB(A)	59	60	63
	Operating Current (Max.)		A	9.2	10	13.6
	Breaker Size		A	10	12	16
Ext.Piping	Diameter	Liquid/Gas	mm	6.35/9.52	6.35/9.52	6.35/12.7
	Max.Length	Out-In	m	20	20	30
	Max.Height	Out-In	m	12	12	15
Guaranteed Operating Range (Outdoor)		Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46
		Heating	°C	-25 ~ +24	-25 ~ +24	-25 ~ +24

(*1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO_2 , over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

(*2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

(*3) SHi: Super High.

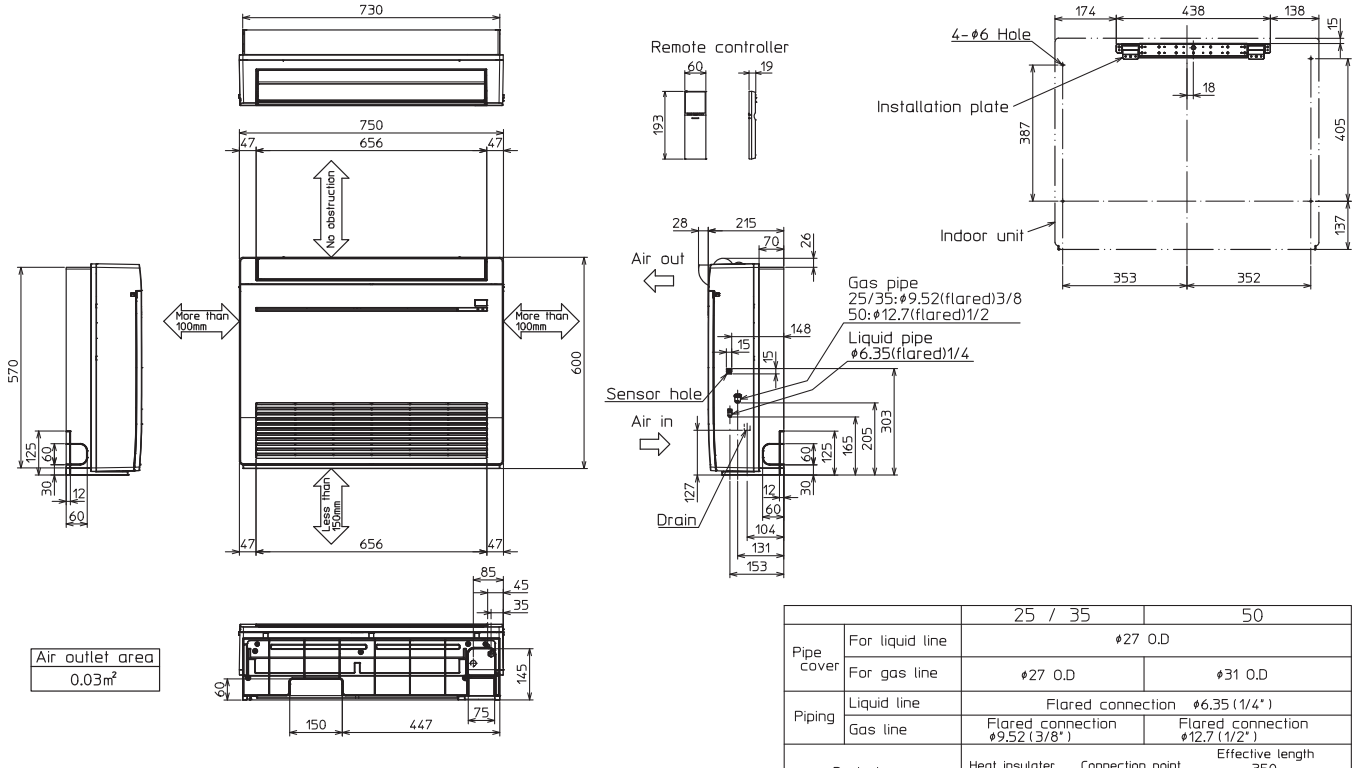
C.2.2 OUTLINES AND DIMENSIONS

C.2.2.1 Indoor Unit

Unit: mm

MFZ-KJ25VE2 MFZ-KJ35VE2 MFZ-KJ50VE2

INDOOR UNIT



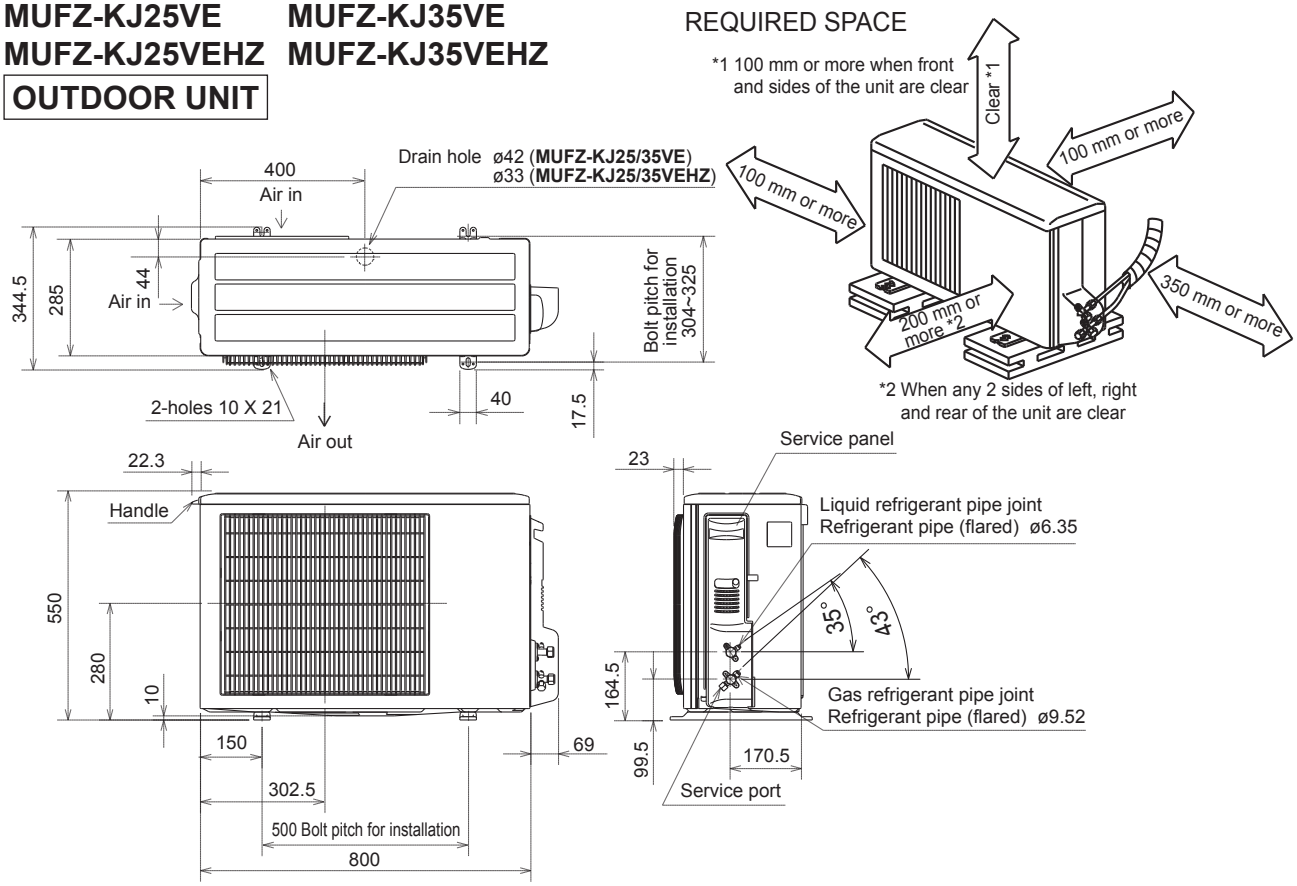
		25 / 35	50
Pipe cover	For liquid line	ø27 O.D	
	For gas line	ø27 O.D	ø31 O.D
Piping	Liquid line	Flared connection ø6.35 (1/4")	
	Gas line	Flared connection ø9.52 (3/8")	Flared connection ø12.7 (1/2")
Drain hose		Heat insulater ø29 O.D / Connection point ø16 O.D	Effective length 350 (case of right backward piping)
Connection drain pipe		VP30	

C.2.2.2 Outdoor Unit

Unit: mm

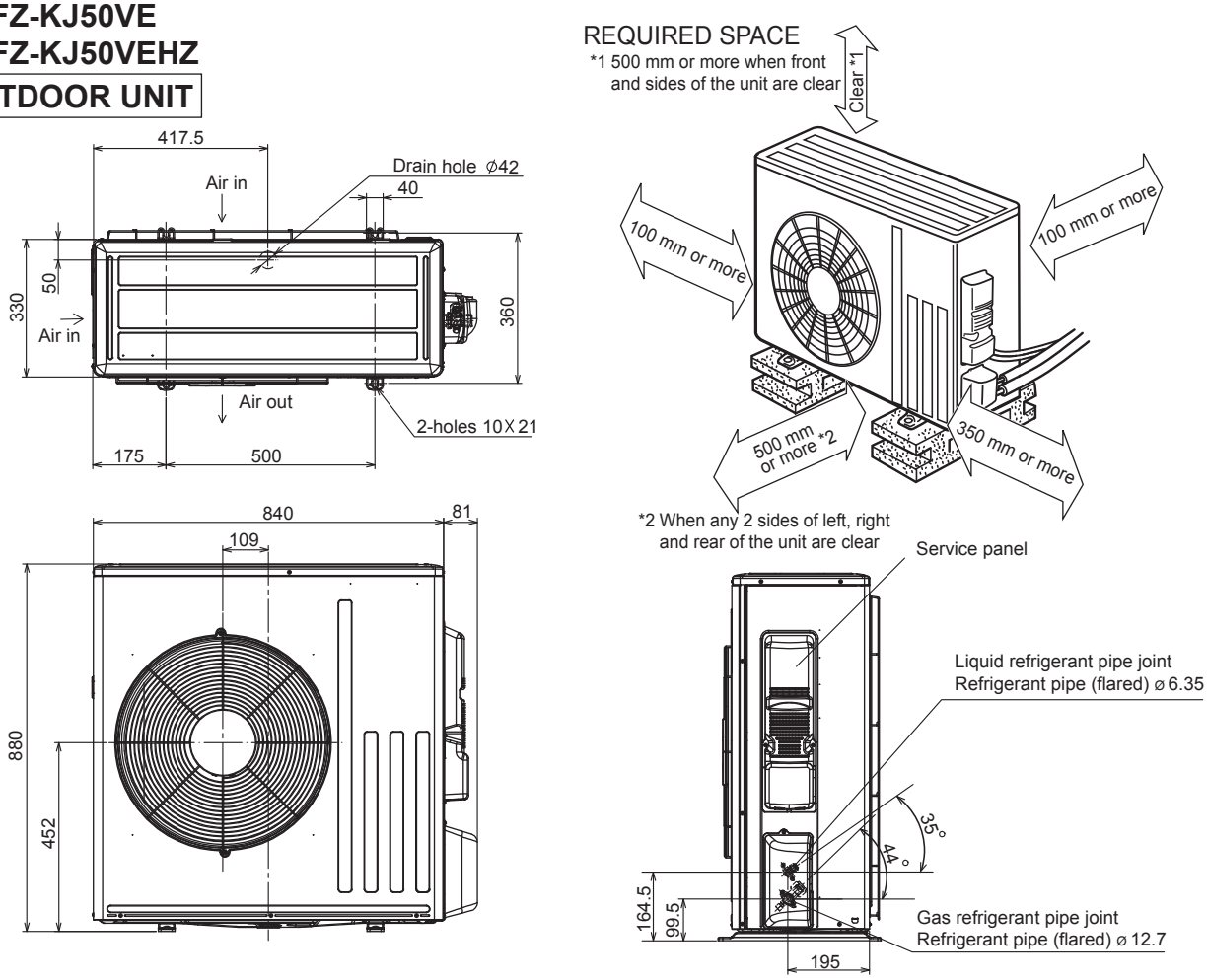
MUFZ-KJ25VE MUFZ-KJ35VE
MUFZ-KJ25VEHZ MUFZ-KJ35VEHZ

OUTDOOR UNIT



MUFZ-KJ50VE
MUFZ-KJ50VEHZ

OUTDOOR UNIT

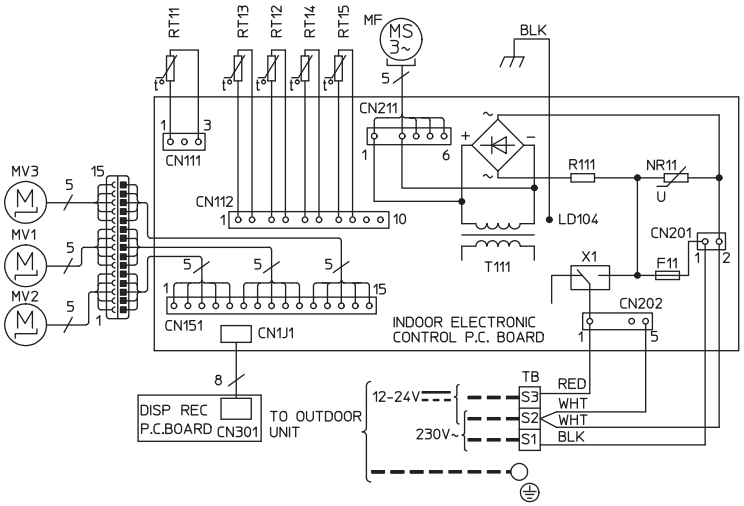


C.2.3 WIRING DIAGRAM

C.2.3.1 Indoor Unit

MFZ-KJ25VE2 MFZ-KJ35VE2 MFZ-KJ50VE2

INDOOR UNIT



SYMBOL	NAME	SYMBOL	NAME
MF	FAN MOTOR	RT11	ROOM TEMP. THERMISTOR
MV1	HORIZONTAL VANE MOTOR (FRONT)	RT12	COIL TEMP. THERMISTOR(MAIN1)
MV2	HORIZONTAL VANE MOTOR (BACK)	RT13	COIL TEMP. THERMISTOR(SUB)
MV3	MULTI-FLOW VANE MOTOR	RT14	COIL TEMP. THERMISTOR(MAIN2)
F11	FUSE (T3.15AL250V)	RT15	COIL TEMP. THERMISTOR(MAIN3)
T111	TRANSFORMER	NR11	VARISTOR
X1	RELAY	R111	RESISTOR
TB	TERMINAL BLOCK		

NOTES:
1. About the outdoor side electric wiring refer to the outdoor unit electric wiring diagram for servicing.
2. Use copper conductors only. (For field wiring)
3. Symbols below indicate.

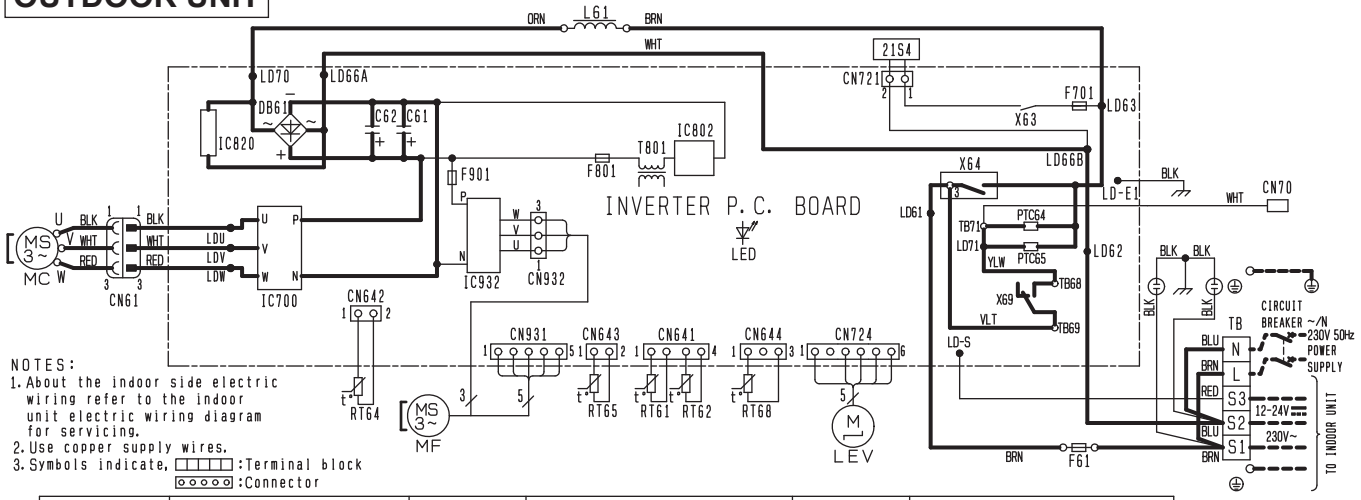
: Terminal block

: Connector

C.2.3.2 Outdoor Unit

MUFZ-KJ25VE MUFZ-KJ35VE

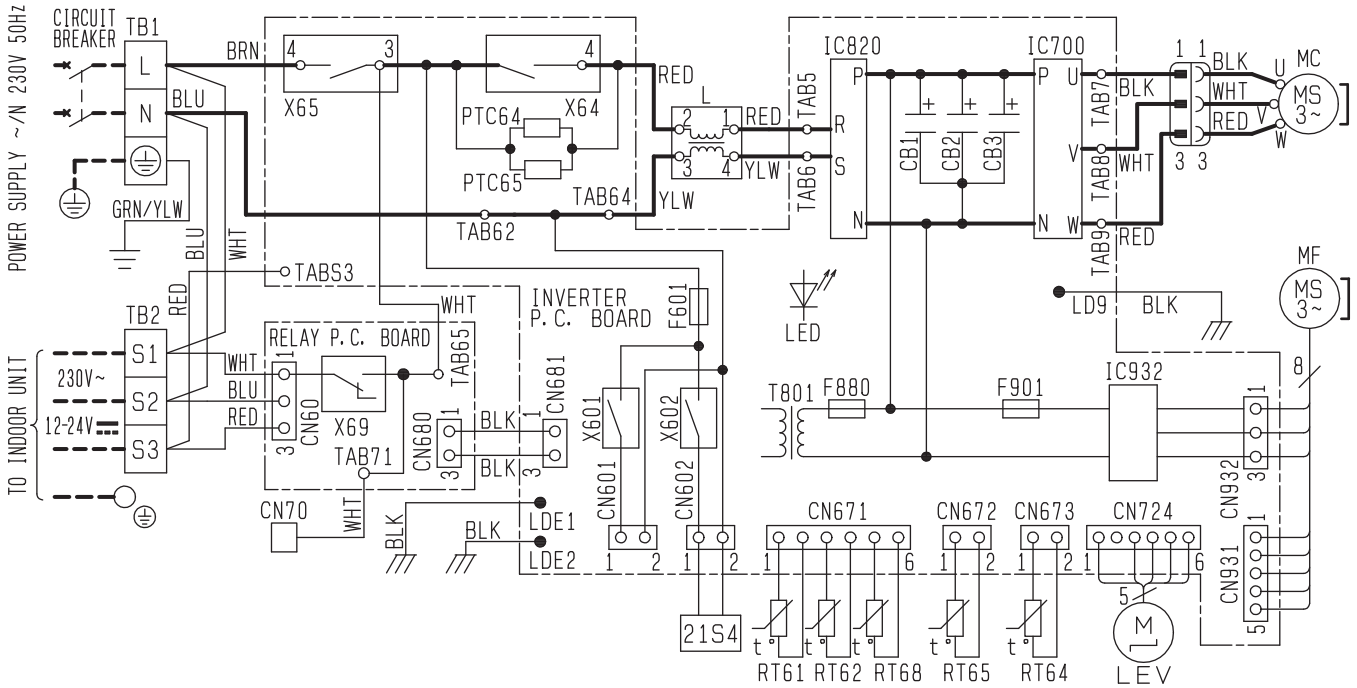
OUTDOOR UNIT



SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
CN70	CONNECTOR	LED	LED	RT64	FIN TEMP. THERMISTOR
C61, C62	SMOOTHING CAPACITOR	LEV	EXPANSION VALVE COIL	RT65	AMBIENT TEMP. THERMISTOR
DB61	DIODE MODULE	L61	REACTOR	RT68	OUTDOOR HEAT EXCHANGER TEMP. THERMISTOR.
F61	FUSE (T20AL250V)	MC	COMPRESSOR		
F701, F801, F901	FUSE (T3.15AL250V)	MF	FAN MOTOR	TB	TERMINAL BLOCK
IC700, IC820 IC932	POWER MODULE	PTC64, PTC65	CIRCUIT PROTECTION	T801	TRANSFORMER
		RT61	DEFROST THERMISTOR	X63, X64, X69	RELAY
IC802	POWER DEVICE	RT62	DISCHARGE TEMP. THERMISTOR	21S4	REVERSING VALVE COIL

MUFZ-KJ50VE

OUTDOOR UNIT

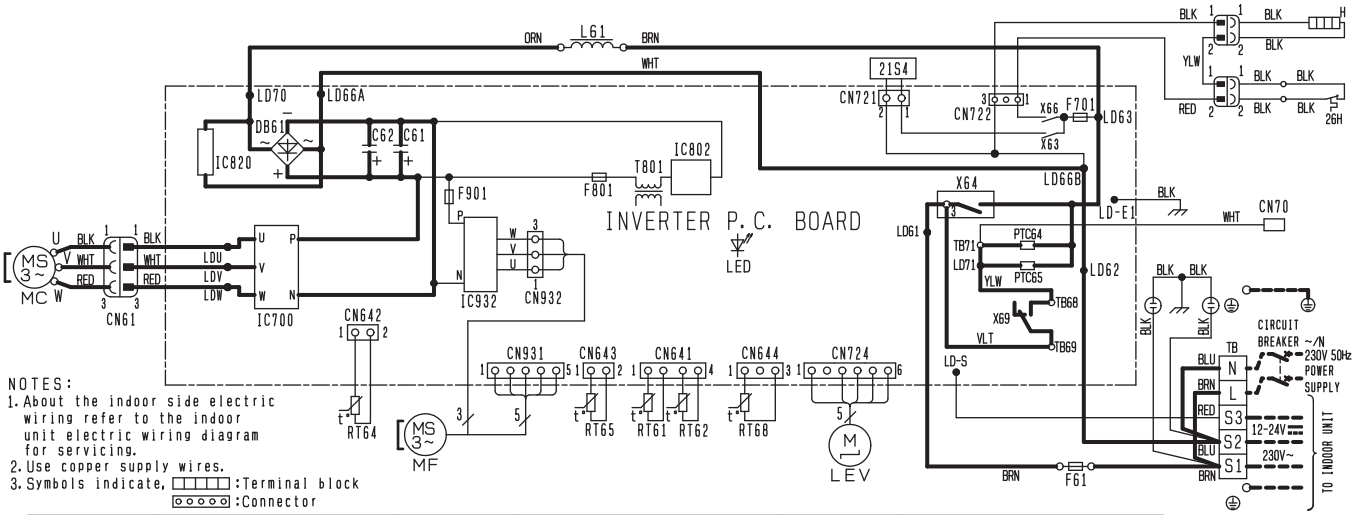


SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
CB1~3	SMOOTHING CAPACITOR	L	REACTOR	RT62	DISCHARGE TEMP. THERMISTOR	X602	RELAY
CN70	CONNECTOR	LED	LED	RT64	FIN TEMP. THERMISTOR	X64	RELAY
F601	FUSE (T3.15AL250V)	LEV	EXPANSION VALVE COIL	RT65	AMBIENT TEMP. THERMISTOR	X65	RELAY
F880	FUSE (T3.15AL250V)	MC	COMPRESSOR	RT68	OUTDOOR HEAT EXCHANGER TEMP. THERMISTOR	X69	RELAY
F901	FUSE (T3.15AL250V)	MF	FAN MOTOR			21S4	REVERSING VALVE COIL
IC700	IGBT Module	PTC64	CIRCUIT PROTECTION	TB1, TB2	TERMINAL BLOCK		
IC820	DIODE Module	PTC65	CIRCUIT PROTECTION	T801	TRANSFORMER		
IC932	IGBT Module	RT61	DEFROST THERMISTOR	X601	RELAY		

NOTES 1. About the indoor side electric wiring, refer to the indoor unit electric wiring diagram for servicing.
2. Use copper supply wires. 3. Symbols indicate, :Terminal block :Connector

MUFZ-KJ25VEHZ MUFZ-KJ35VEHZ

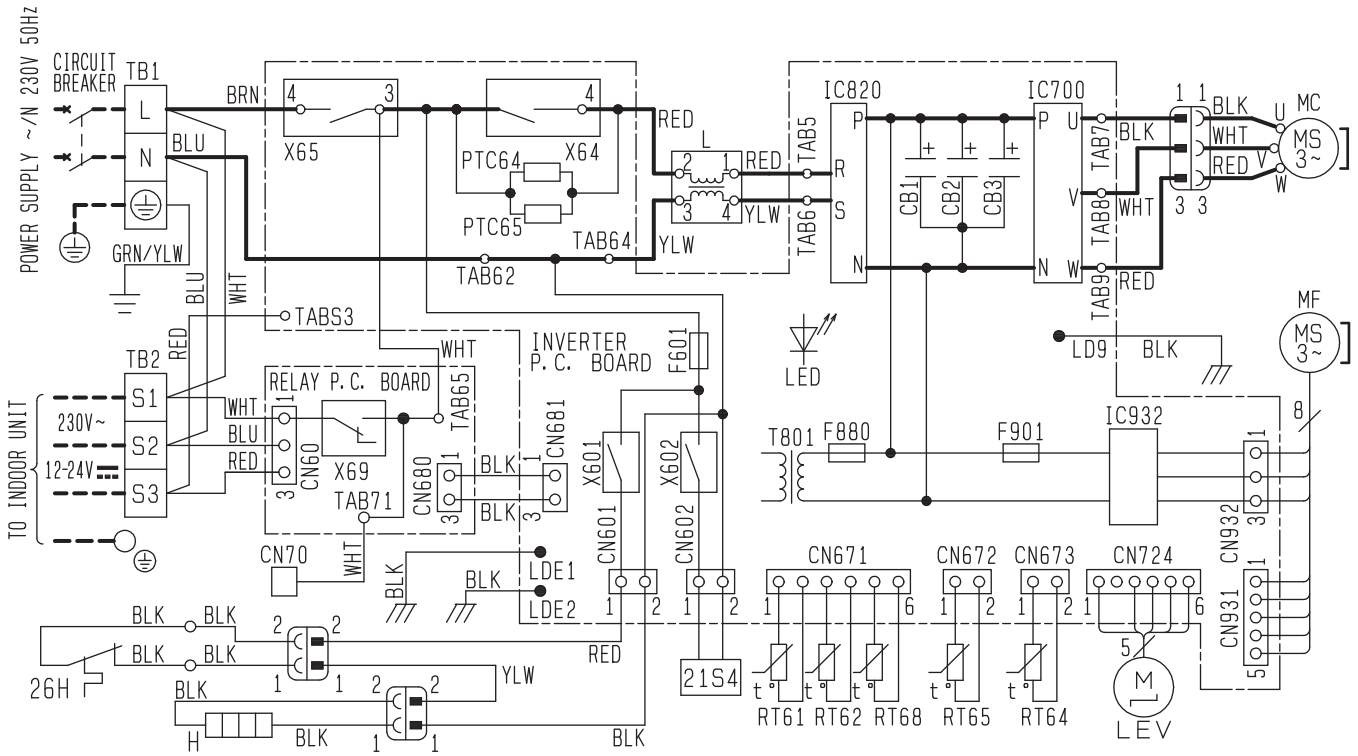
OUTDOOR UNIT



SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
CN70	CONNECTOR	LED	LED	RT65	AMBIENT TEMP. THERMISTOR
C61, C62	SMOOTHING CAPACITOR	LEV	EXPANSION VALVE COIL	RT68	OUTDOOR HEAT EXCHANGER TEMP. THERMISTOR.
DB61	DIODE MODULE	L61	REACTOR		
F61	FUSE (T20AL250V)	MC	COMPRESSOR	TB	TERMINAL BLOCK
F701, F801, F901	FUSE (T3.15AL250V)	MF	FAN MOTOR	T801	TRANSFORMER
H	DEFROST HEATER	PTC64, PTC65	CIRCUIT PROTECTION	X63, X64	RELAY
IC700, IC820 IC932	POWER MODULE	RT61	DEFROST THERMISTOR	X66, X69	
		RT62	DISCHARGE TEMP. THERMISTOR	21S4	REVERSING VALVE COIL
IC802	POWER DEVICE	RT64	FIN TEMP. THERMISTOR	26H	HEATER PROTECTOR

MUFZ-KJ50VEHZ

OUTDOOR UNIT



SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
CB1~3	SMOOTHING CAPACITOR	IC932	IGBT Module	RT61	DEFROST THERMISTOR	X601	RELAY
CN70	CONNECTOR	L	REACTOR	RT62	DISCHARGE TEMP. THERMISTOR	X602	RELAY
F601	FUSE(T3.15AL250V)	LED	LED	RT64	FIN TEMP. THERMISTOR	X64	RELAY
F880	FUSE(T3.15AL250V)	LEV	EXPANSION VALVE COIL	RT65	AMBIENT TEMP. THERMISTOR	X65	RELAY
F901	FUSE(T3.15AL250V)	MC	COMPRESSOR	RT68	OUTDOOR HEAT EXCHANGER TEMP. THERMISTOR	X69	RELAY
H	DEFROST HEATER	MF	FAN MOTOR			21S4	REVERSING VALVE COIL
IC700	IGBT Module	PTC64	CIRCUIT PROTECTION	TB1, TB2	TERMINAL BLOCK	26H	HEATER PROTECTOR
IC820	DIODE Module	PTC65	CIRCUIT PROTECTION	T801	TRANSFORMER		

NOTES 1. About the indoor side electric wiring, refer to the indoor unit electric wiring diagram for servicing.
2. Use copper supply wires. 3. Symbols indicate, ▭▭▭ :Terminal block ○○○ :Connector

C.2.4 REFRIGERANT SYSTEM DIAGRAM

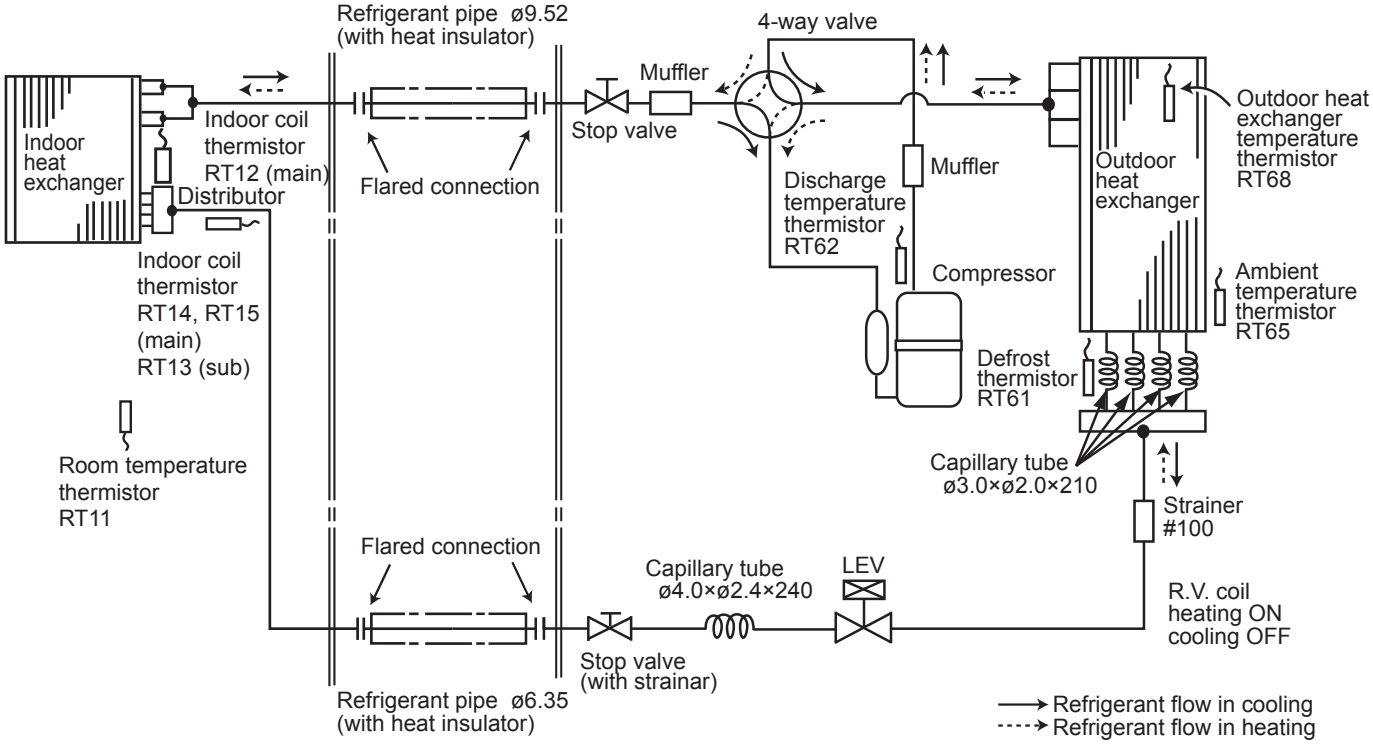
C.2.4.1 Inverter Heat Pump

Unit: mm

MFZ-KJ25VE2
MFZ-KJ35VE2

MUFZ-KJ25VE
MUFZ-KJ25VEHZ
MUFZ-KJ35VE
MUFZ-KJ35VEHZ

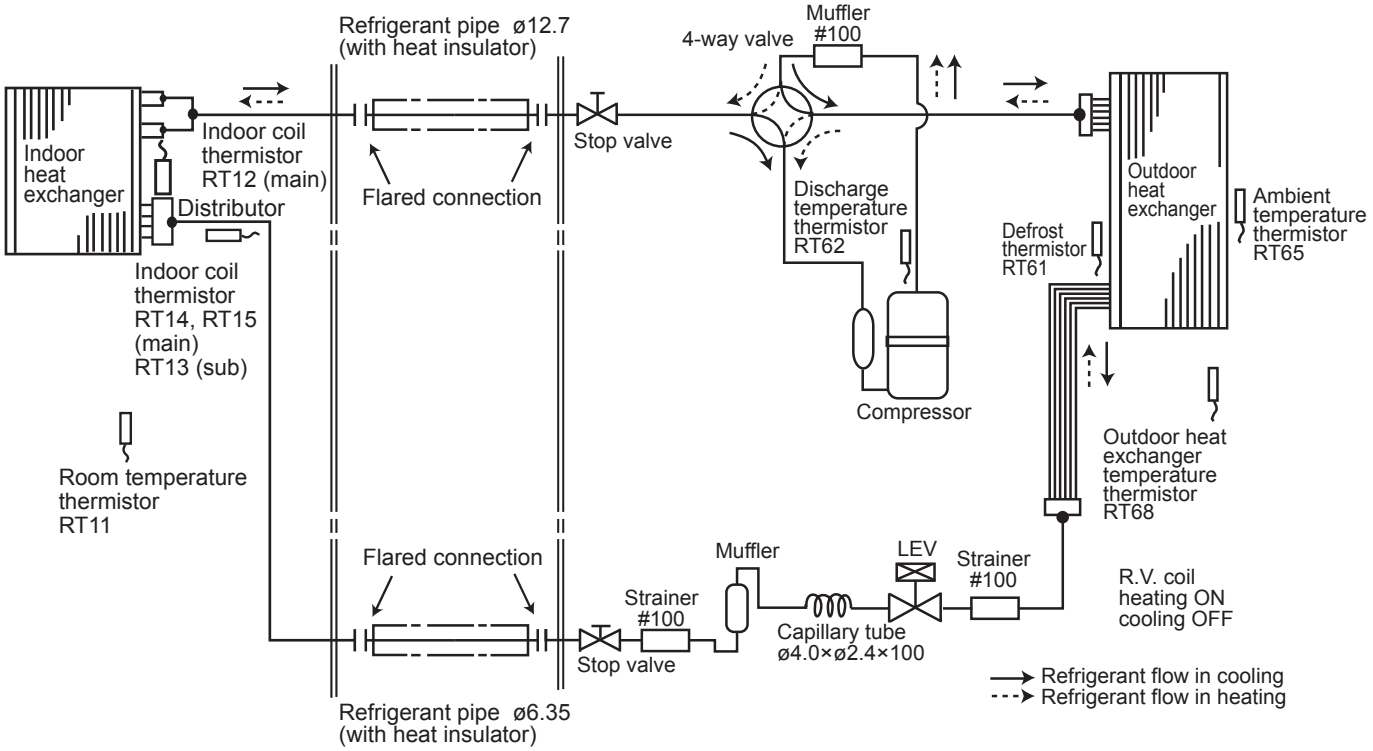
INDOOR UNIT **OUTDOOR UNIT**



MFZ-KJ50VE2

MUFZ-KJ50VE
MUFZ-KJ50VEHZ

INDOOR UNIT **OUTDOOR UNIT**



C.2.5 PERFORMANCE CURVES

C.2.5.1 Inverter Heat Pump

MUFZ-KJ25VE MUFZ-KJ35VE MUFZ-KJ50VE
MUFZ-KJ25VEHZ MUFZ-KJ35VEHZ MUFZ-KJ50VEHZ

The standard specifications apply only to the operation of the air conditioner under normal conditions, since operating conditions vary according to the areas where these units are installed. The following information has been provided to clarify the operating characteristics of the air conditioner under the conditions indicated by the performance curve.

(1) GUARANTEED VOLTAGE

198~264 V, (50 Hz)

(2) AIR FLOW

Air flow should be set at MAX.

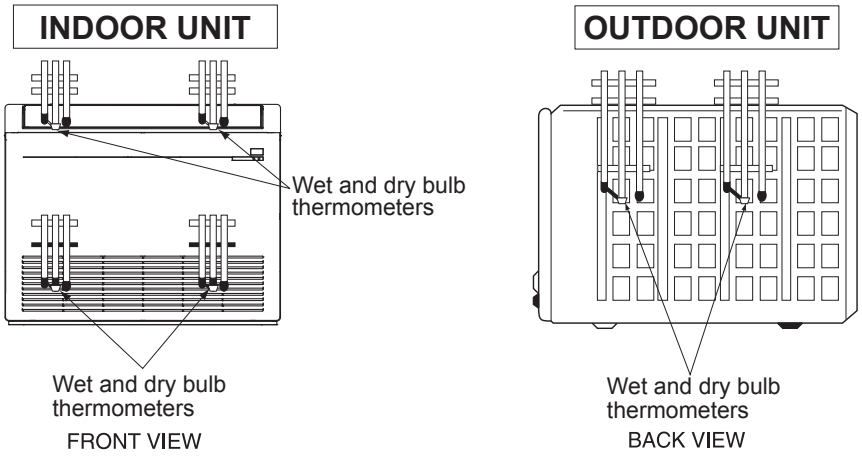
(3) MAIN READINGS

(1) Indoor intake air wet-bulb temperature :	°CWB	Cooling
(2) Indoor outlet air wet-bulb temperature :	°CWB	
(3) Outdoor intake air dry-bulb temperature :	°CDB	
(4) Total input:	W	
(5) Indoor intake air dry-bulb temperature :	°CDB	Heating
(6) Outdoor intake air wet-bulb temperature :	°CWB	
(7) Total input :	W	

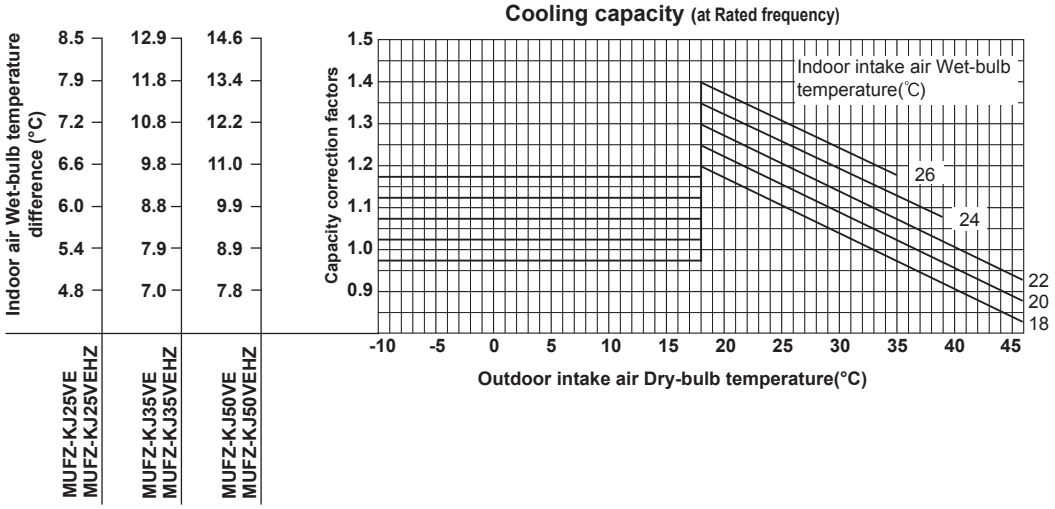
Indoor air wet and dry bulb temperature difference on the left side of the following chart shows the difference between the indoor intake air wet and dry bulb temperature and the indoor outlet air wet and dry bulb temperature for your reference at service.

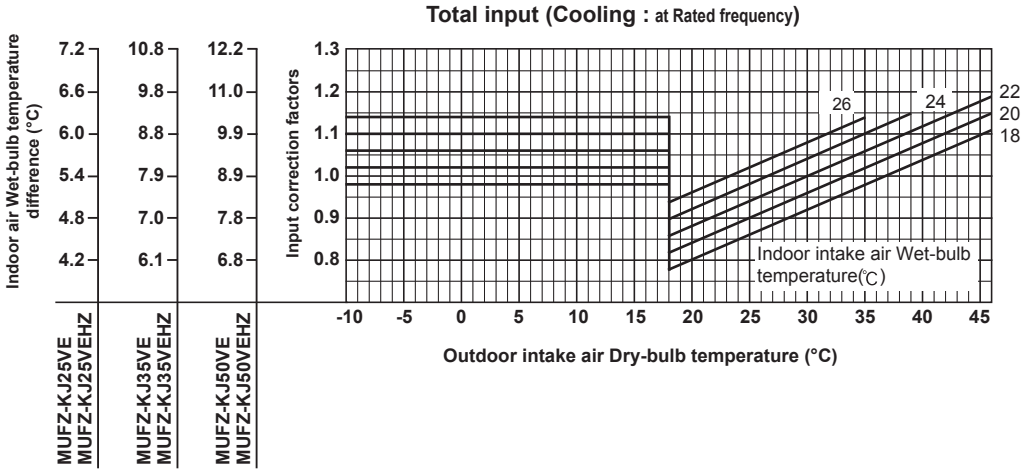
How to measure the indoor air wet/dry bulb temperature difference

1. Attach at least 2 sets of wet and dry bulb thermometers to the indoor air intake as shown in the figure, and at least 2 sets of wet and dry bulb thermometers to the indoor air outlet. The thermometers must be attached to the position where air speed is high.
2. Attach at least 2 sets of wet and dry bulb thermometers to the outdoor air intake. Cover the thermometers to prevent direct rays of the sun.
3. Check that the air filter is cleaned.
4. Open windows and doors of room.
5. Press the EMERGENCY OPERATION switch once (twice) to start the EMERGENCY COOL (HEAT) MODE.
6. When system stabilizes after more than 15 minutes, measure temperature and take an average temperature.
7. 10 minutes later, measure temperature again and check that the temperature does not change.



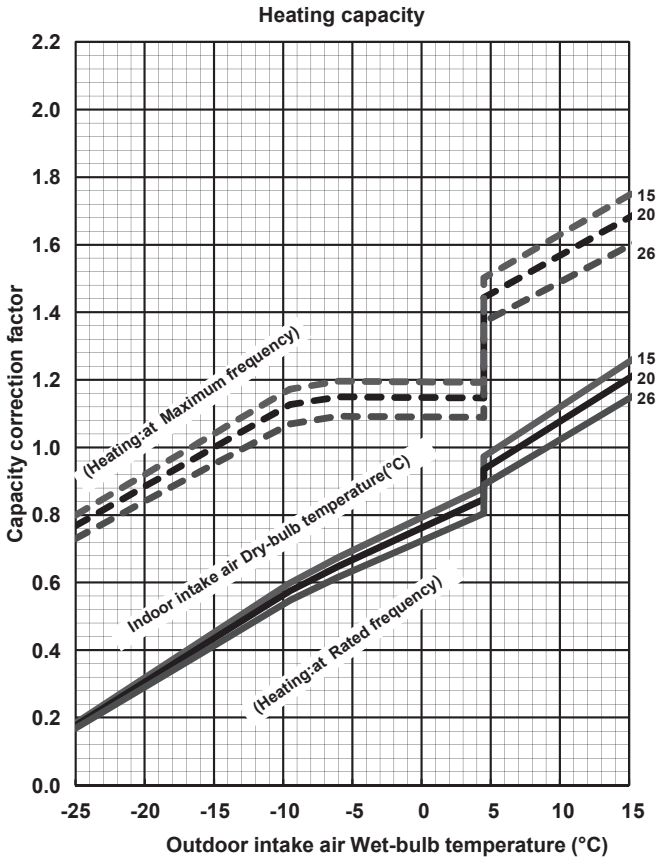
CAPACITY AND INPUT CURVES





NOTE: The above broken lines are for the heating operation without any frost and defrost operation.

MUFZ-KJ25VEHZ



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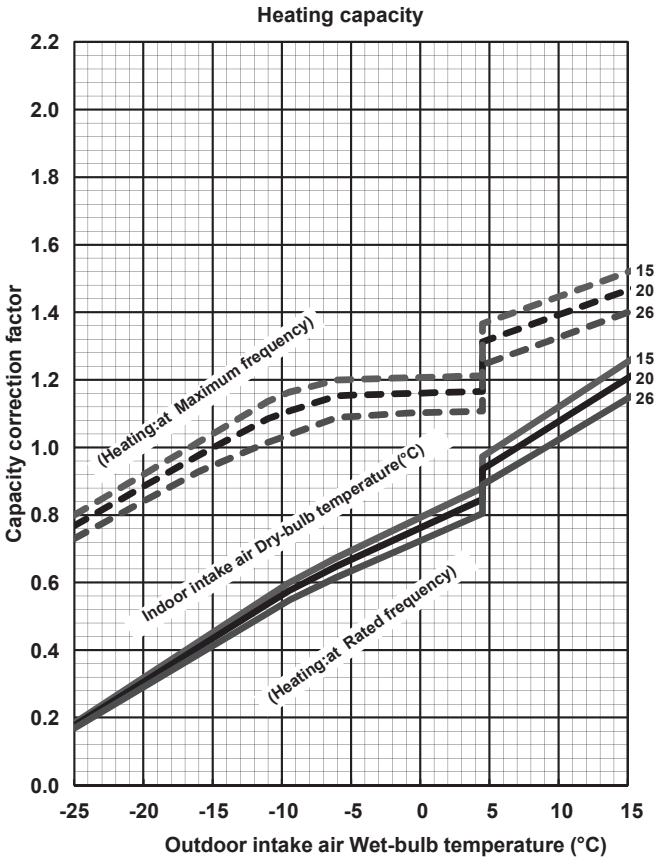

NOTE: The above broken lines are for the heating operation without any frost and defrost operation.

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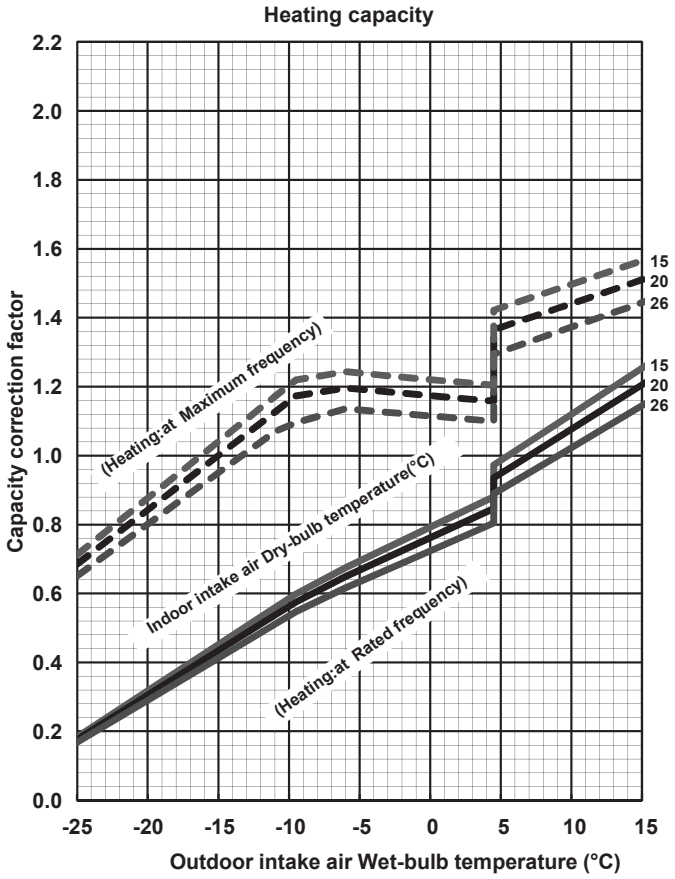

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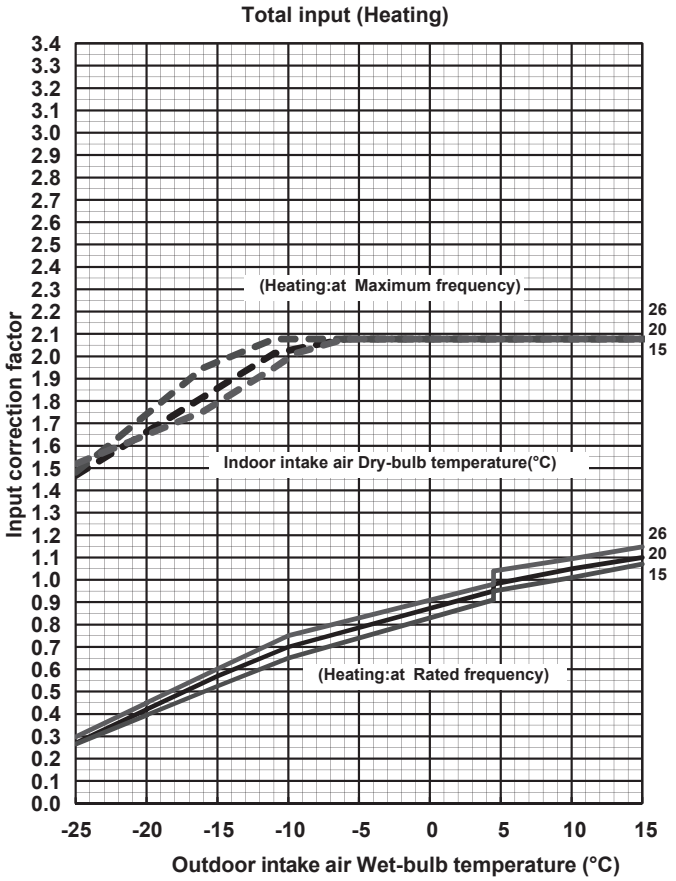

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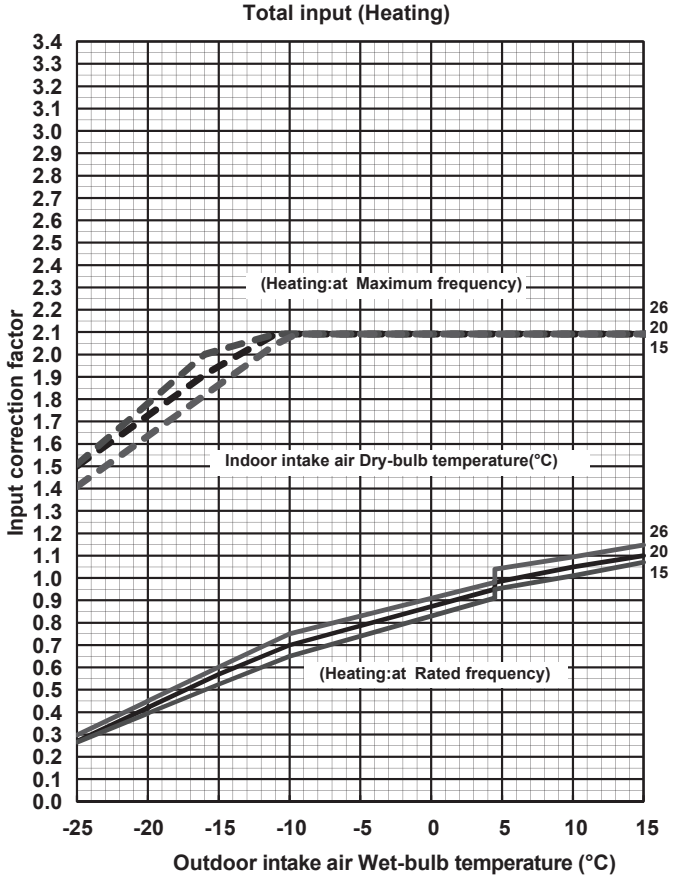

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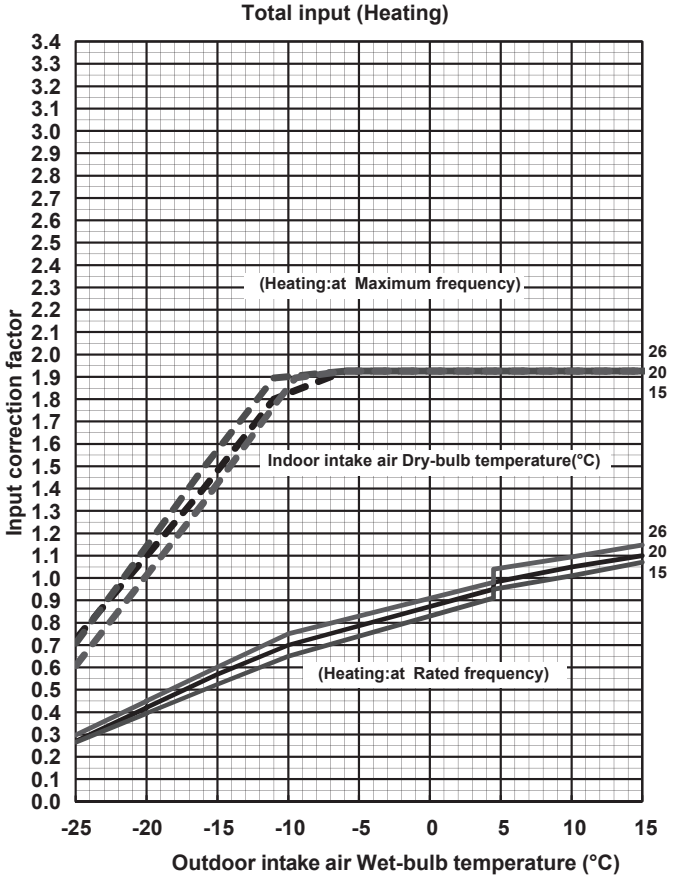
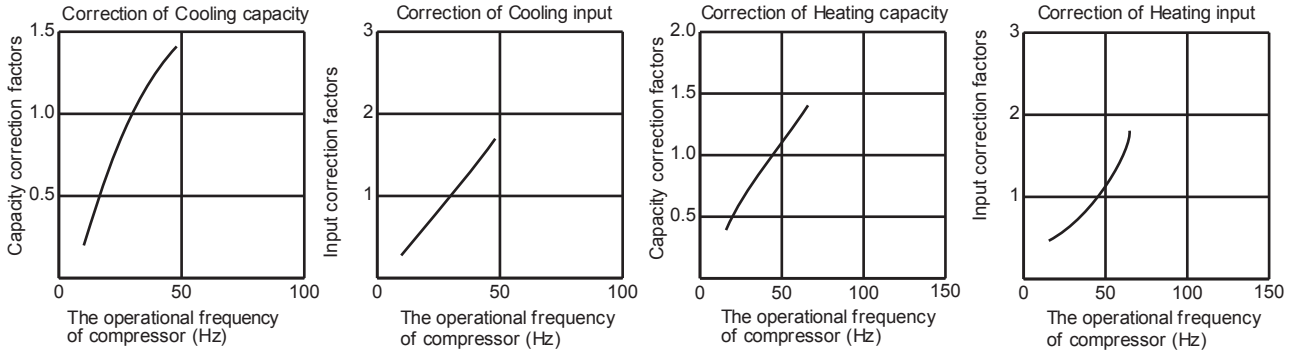


NOTE: The above broken lines are for the heating operation without any frost and defrost operation.

CAPACITY AND INPUT CORRECTION BY OPERATIONAL FREQUENCY OF COMPRESSOR

MUFZ-KJ25VE



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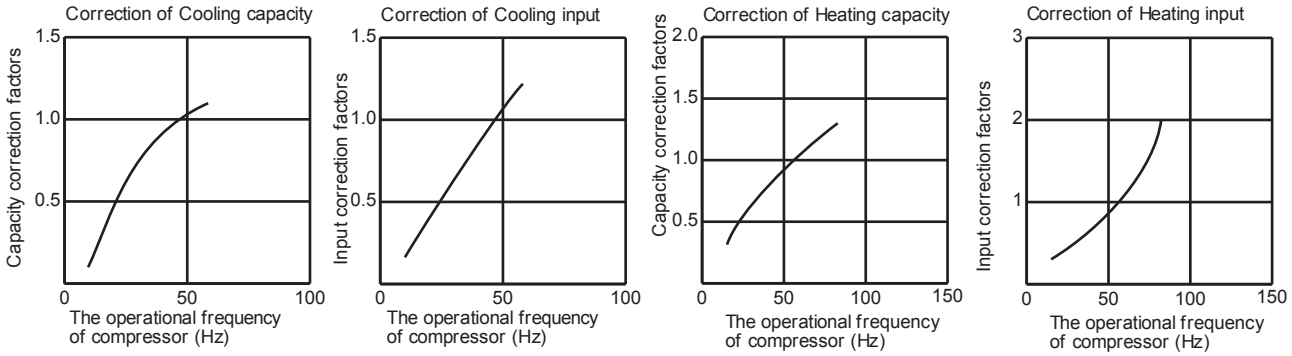

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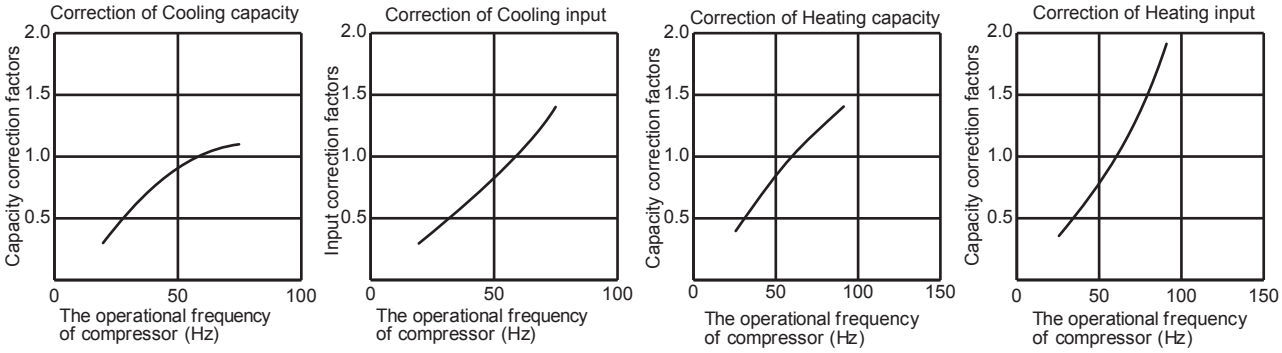

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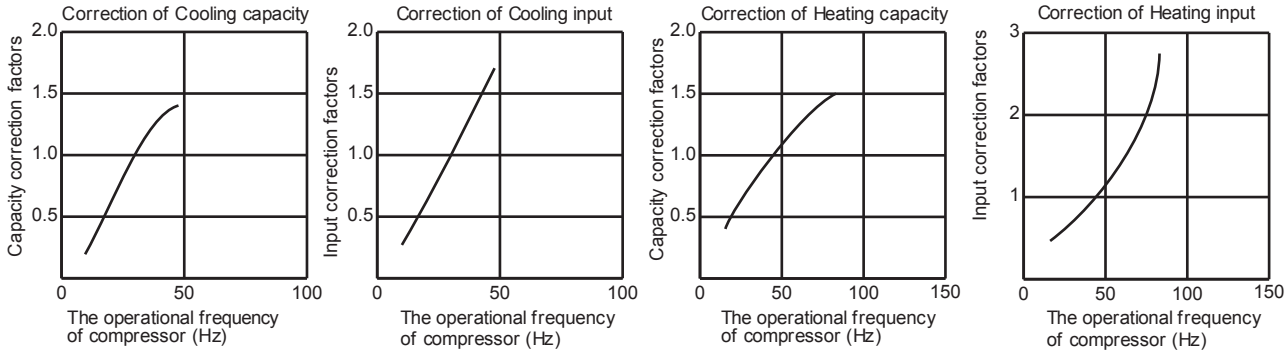

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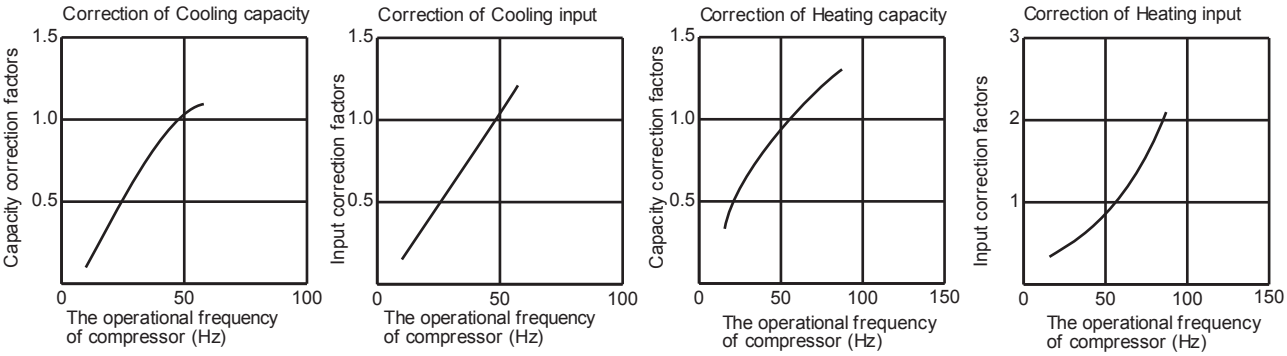

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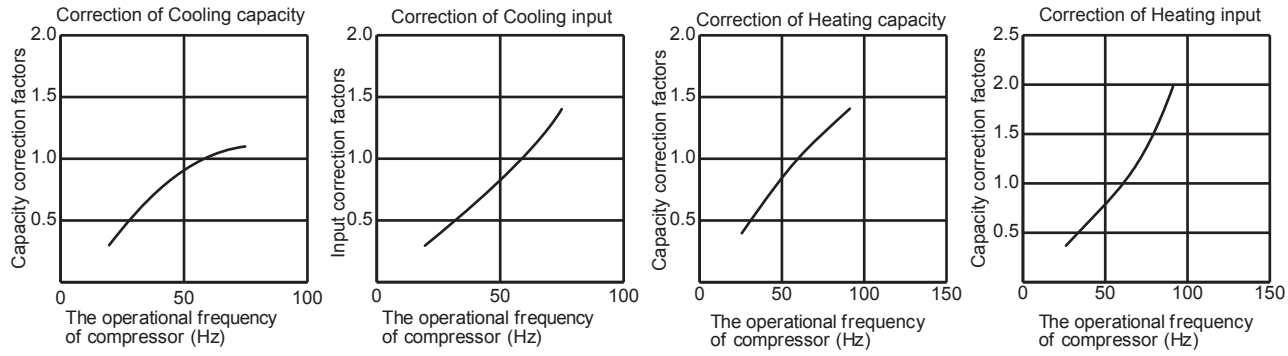


HOW TO OPERATE FIXED-FREQUENCY OPERATION

<Test run operation>

1. Press EMERGENCY OPERATION switch to start COOL or HEAT mode (COOL: Press once, HEAT: Press twice).
2. Test run operation starts and continues to operate for 30 minutes.
3. Compressor operates at rated frequency in COOL mode or 58 Hz in HEAT mode.
4. Indoor fan operates at High speed.
5. After 30 minutes, test run operation finishes and EMERGENCY OPERATION starts (operation frequency of compressor varies).
6. To cancel test run operation (EMERGENCY OPERATION), press EMERGENCY OPERATION switch or any button on remote controller.

OUTDOOR LOW PRESSURE AND OUTDOOR UNIT CURRENT

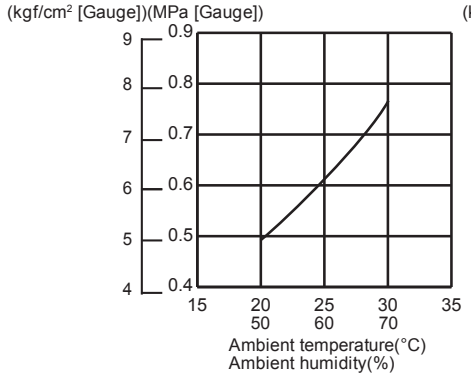
COOL operation

① Both indoor and outdoor unit are under the same temperature/ humidity condition.
② Operation: TEST RUN OPERATION (Refer to 8-3.)

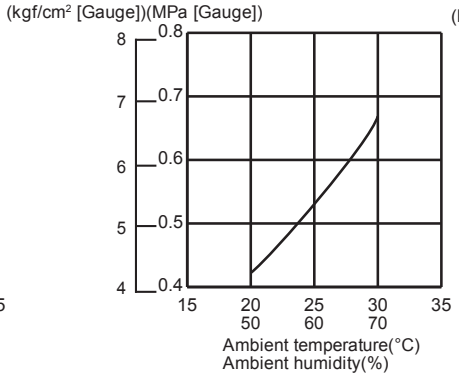
Dry-bulb temperature (°C)	Relative humidity (%)
20	50
25	60
30	70

Outdoor low pressure

MUFZ-KJ25VE
MUFZ-KJ25VEHZ



MUFZ-KJ35VE
MUFZ-KJ35VEHZ



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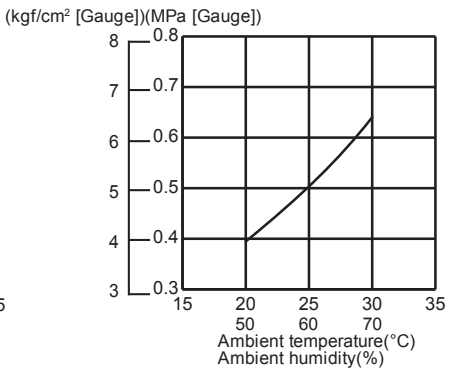
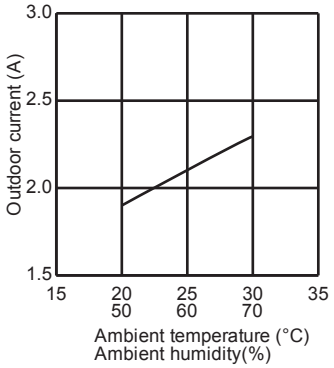


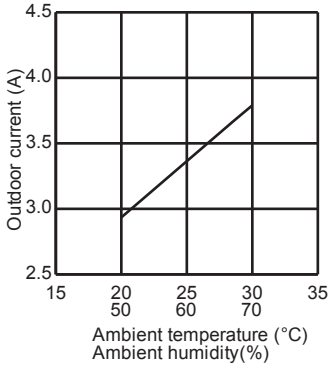
NOTE:
The unit of pressure has been changed to MPa on the international system of units (SI unit system)
The conversion factor is: **1 (MPa [Gauge]) = 10.2 (kgf/cm² [Gauge])**

Outdoor unit current

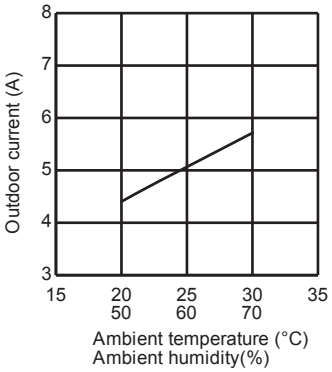
MUFZ-KJ25VE
MUFZ-KJ25VEHZ



MUFZ-KJ35VE
MUFZ-KJ35VEHZ



MUFZ-KJ50VE
MUFZ-KJ50VEHZ



HEAT operation

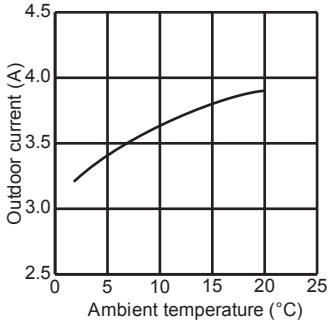
① Condition:

	Indoor	Outdoor			
Dry bulb temperature (°C)	20.0	2	7	15	20.0
Wet bulb temperature (°C)	14.5	1	6	12	14.5

② Operation: Test run operation (Refer to 8-3.)

Outdoor unit current

MUFZ-KJ25VE
MUFZ-KJ25VEHZ



MUFZ-KJ35VE
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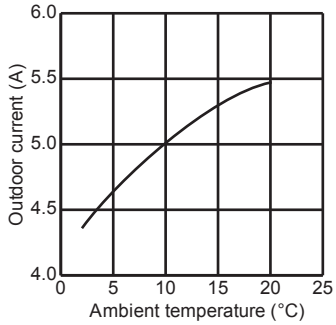
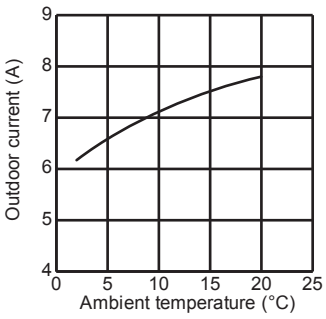


MUFZ-KJ50VE
MUFZ-KJ50VEHZ



C.2.6 PERFORMANCE DATA

C.2.6.1 Inverter Heat Pump

PERFORMANCE DATA COOL operation at Rated frequency

MFZ-KJ25VE2: MUFZ-KJ25VE MUFZ-KJ25VEHZ

CAPACITY: 2.5 kW SHF: 0.85 INPUT: 540 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)															
		21				25				27				30			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	2.94	1.97	0.67	432	2.81	1.88	0.67	454	2.70	1.81	0.67	475	2.60	1.74	0.67	497
21	20	3.06	1.68	0.55	454	2.94	1.62	0.55	481	2.85	1.57	0.55	491	2.75	1.51	0.55	513
22	18	2.94	2.09	0.71	432	2.81	2.00	0.71	454	2.70	1.92	0.71	475	2.60	1.85	0.71	497
22	20	3.06	1.81	0.59	454	2.94	1.73	0.59	481	2.85	1.68	0.59	491	2.75	1.62	0.59	513
22	22	3.19	1.50	0.47	470	3.08	1.45	0.47	500	3.00	1.41	0.47	513	2.88	1.35	0.47	535
23	18	2.94	2.20	0.75	432	2.81	2.11	0.75	454	2.70	2.03	0.75	475	2.60	1.95	0.75	497
23	20	3.06	1.93	0.63	454	2.94	1.85	0.63	481	2.85	1.80	0.63	491	2.75	1.73	0.63	513
23	22	3.19	1.63	0.51	470	3.08	1.57	0.51	500	3.00	1.53	0.51	513	2.88	1.47	0.51	535
24	18	2.94	2.32	0.79	432	2.81	2.22	0.79	454	2.70	2.13	0.79	475	2.60	2.05	0.79	497
24	20	3.06	2.05	0.67	454	2.94	1.97	0.67	481	2.85	1.91	0.67	491	2.75	1.84	0.67	513
24	22	3.19	1.75	0.55	470	3.08	1.69	0.55	500	3.00	1.65	0.55	513	2.88	1.58	0.55	535
24	24	3.35	1.44	0.43	491	3.23	1.39	0.43	518	3.15	1.35	0.43	535	3.05	1.31	0.43	562
25	18	2.94	2.44	0.83	432	2.81	2.33	0.83	454	2.70	2.24	0.83	475	2.60	2.16	0.83	497
25	20	3.06	2.17	0.71	454	2.94	2.09	0.71	481	2.85	2.02	0.71	491	2.75	1.95	0.71	513
25	22	3.19	1.88	0.59	470	3.08	1.81	0.59	500	3.00	1.77	0.59	513	2.88	1.70	0.59	535
25	24	3.35	1.57	0.47	491	3.23	1.52	0.47	518	3.15	1.48	0.47	535	3.05	1.43	0.47	562
26	18	2.94	2.56	0.87	432	2.81	2.45	0.87	454	2.70	2.35	0.87	475	2.60	2.26	0.87	497
26	20	3.06	2.30	0.75	454	2.94	2.20	0.75	481	2.85	2.14	0.75	491	2.75	2.06	0.75	513
26	22	3.19	2.01	0.63	470	3.08	1.94	0.63	500	3.00	1.89	0.63	513	2.88	1.81	0.63	535
26	24	3.35	1.71	0.51	491	3.23	1.64	0.51	518	3.15	1.61	0.51	535	3.05	1.56	0.51	562
26	26	3.45	1.35	0.39	518	3.35	1.31	0.39	545	3.30	1.29	0.39	562	3.20	1.25	0.39	578
27	18	2.94	2.67	0.91	432	2.81	2.56	0.91	454	2.70	2.46	0.91	475	2.60	2.37	0.91	497
27	20	3.06	2.42	0.79	454	2.94	2.32	0.79	481	2.85	2.25	0.79	491	2.75	2.17	0.79	513
27	22	3.19	2.14	0.67	470	3.08	2.06	0.67	500	3.00	2.01	0.67	513	2.88	1.93	0.67	535
27	24	3.35	1.84	0.55	491	3.23	1.77	0.55	518	3.15	1.73	0.55	535	3.05	1.68	0.55	562
27	26	3.45	1.48	0.43	518	3.35	1.44	0.43	545	3.30	1.42	0.43	562	3.20	1.38	0.43	578
28	18	2.94	2.79	0.95	432	2.81	2.67	0.95	454	2.70	2.57	0.95	475	2.60	2.47	0.95	497
28	20	3.06	2.54	0.83	454	2.94	2.44	0.83	481	2.85	2.37	0.83	491	2.75	2.28	0.83	513
28	22	3.19	2.26	0.71	470	3.08	2.18	0.71	500	3.00	2.13	0.71	513	2.88	2.04	0.71	535
28	24	3.35	1.98	0.59	491	3.23	1.90	0.59	518	3.15	1.86	0.59	535	3.05	1.80	0.59	562
28	26	3.45	1.62	0.47	518	3.35	1.57	0.47	545	3.30	1.55	0.47	562	3.20	1.50	0.47	578
29	18	2.94	2.91	0.99	432	2.81	2.78	0.99	454	2.70	2.67	0.99	475	2.60	2.57	0.99	497
29	20	3.06	2.66	0.87	454	2.94	2.56	0.87	481	2.85	2.48	0.87	491	2.75	2.39	0.87	513
29	22	3.19	2.39	0.75	470	3.08	2.31	0.75	500	3.00	2.25	0.75	513	2.88	2.16	0.75	535
29	24	3.35	2.11	0.63	491	3.23	2.03	0.63	518	3.15	1.98	0.63	535	3.05	1.92	0.63	562
29	26	3.45	1.76	0.51	518	3.35	1.71	0.51	545	3.30	1.68	0.51	562	3.20	1.63	0.51	578
30	18	2.94	2.94	1.00	432	2.81	2.81	1.00	454	2.70	2.70	1.00	475	2.60	2.60	1.00	497
30	20	3.06	2.79	0.91	454	2.94	2.67	0.91	481	2.85	2.59	0.91	491	2.75	2.50	0.91	513
30	22	3.19	2.52	0.79	470	3.08	2.43	0.79	500	3.00	2.37	0.79	513	2.88	2.27	0.79	535
30	24	3.35	2.24	0.67	491	3.23	2.16	0.67	518	3.15	2.11	0.67	535	3.05	2.04	0.67	562
30	26	3.45	1.90	0.55	518	3.35	1.84	0.55	545	3.30	1.82	0.55	562	3.20	1.76	0.55	578
31	18	2.94	2.94	1.00	432	2.81	2.81	1.00	454	2.70	2.70	1.00	475	2.60	2.60	1.00	497
31	20	3.06	2.91	0.95	454	2.94	2.79	0.95	481	2.85	2.71	0.95	491	2.75	2.61	0.95	513
31	22	3.19	2.65	0.83	470	3.08	2.55	0.83	500	3.00	2.49	0.83	513	2.88	2.39	0.83	535
31	24	3.35	2.38	0.71	491	3.23	2.29	0.71	518	3.15	2.24	0.71	535	3.05	2.17	0.71	562
31	26	3.45	2.04	0.59	518	3.35	1.98	0.59	545	3.30	1.95	0.59	562	3.20	1.89	0.59	578
32	18	2.94	2.94	1.00	432	2.81	2.81	1.00	454	2.70	2.70	1.00	475	2.60	2.60	1.00	497
32	20	3.06	3.03	0.99	454	2.94	2.91	0.99	481	2.85	2.82	0.99	491	2.75	2.72	0.99	513
32	22	3.19	2.77	0.87	470	3.08	2.68	0.87	500	3.00	2.61	0.87	513	2.88	2.50	0.87	535
32	24	3.35	2.51	0.75	491	3.23	2.42	0.75	518	3.15	2.36	0.75	535	3.05	2.29	0.75	562
32	26	3.45	2.17	0.63	518	3.35	2.11	0.63	545	3.30	2.08	0.63	562	3.20	2.02	0.63	578

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE DATA COOL operation at Rated frequency

MFZ-KJ25VE2: MUFZ-KJ25VE MUFZ-KJ25VEHZ

CAPACITY: 2.5 kW SHF: 0.85 INPUT: 540 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)											
		35				40				46			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	2.45	1.64	0.67	529	2.25	1.51	0.67	562	2.08	1.39	0.67	583
21	20	2.58	1.42	0.55	551	2.40	1.32	0.55	578	2.23	1.22	0.55	610
22	18	2.45	1.74	0.71	529	2.25	1.60	0.71	562	2.08	1.47	0.71	583
22	20	2.58	1.52	0.59	551	2.40	1.42	0.59	578	2.23	1.31	0.59	610
22	22	2.73	1.28	0.47	572	2.55	1.20	0.47	605	2.38	1.12	0.47	626
23	18	2.45	1.84	0.75	529	2.25	1.69	0.75	562	2.08	1.56	0.75	583
23	20	2.58	1.62	0.63	551	2.40	1.51	0.63	578	2.23	1.40	0.63	610
23	22	2.73	1.39	0.51	572	2.55	1.30	0.51	605	2.38	1.21	0.51	626
24	18	2.45	1.94	0.79	529	2.25	1.78	0.79	562	2.08	1.64	0.79	583
24	20	2.58	1.73	0.67	551	2.40	1.61	0.67	578	2.23	1.49	0.67	610
24	22	2.73	1.50	0.55	572	2.55	1.40	0.55	605	2.38	1.31	0.55	626
24	24	2.88	1.24	0.43	594	2.70	1.16	0.43	621	2.55	1.10	0.43	648
25	18	2.45	2.03	0.83	529	2.25	1.87	0.83	562	2.08	1.72	0.83	583
25	20	2.58	1.83	0.71	551	2.40	1.70	0.71	578	2.23	1.58	0.71	610
25	22	2.73	1.61	0.59	572	2.55	1.50	0.59	605	2.38	1.40	0.59	626
25	24	2.88	1.35	0.47	594	2.70	1.27	0.47	621	2.55	1.20	0.47	648
26	18	2.45	2.13	0.87	529	2.25	1.96	0.87	562	2.08	1.81	0.87	583
26	20	2.58	1.93	0.75	551	2.40	1.80	0.75	578	2.23	1.67	0.75	610
26	22	2.73	1.72	0.63	572	2.55	1.61	0.63	605	2.38	1.50	0.63	626
26	24	2.88	1.47	0.51	594	2.70	1.38	0.51	621	2.55	1.30	0.51	648
26	26	3.03	1.18	0.39	616	2.85	1.11	0.39	643	2.68	1.04	0.39	670
27	18	2.45	2.23	0.91	529	2.25	2.05	0.91	562	2.08	1.89	0.91	583
27	20	2.58	2.03	0.79	551	2.40	1.90	0.79	578	2.23	1.76	0.79	610
27	22	2.73	1.83	0.67	572	2.55	1.71	0.67	605	2.38	1.59	0.67	626
27	24	2.88	1.58	0.55	594	2.70	1.49	0.55	621	2.55	1.40	0.55	648
27	26	3.03	1.30	0.43	616	2.85	1.23	0.43	643	2.68	1.15	0.43	670
28	18	2.45	2.33	0.95	529	2.25	2.14	0.95	562	2.08	1.97	0.95	583
28	20	2.58	2.14	0.83	551	2.40	1.99	0.83	578	2.23	1.85	0.83	610
28	22	2.73	1.93	0.71	572	2.55	1.81	0.71	605	2.38	1.69	0.71	626
28	24	2.88	1.70	0.59	594	2.70	1.59	0.59	621	2.55	1.50	0.59	648
28	26	3.03	1.42	0.47	616	2.85	1.34	0.47	643	2.68	1.26	0.47	670
29	18	2.45	2.43	0.99	529	2.25	2.23	0.99	562	2.08	2.05	0.99	583
29	20	2.58	2.24	0.87	551	2.40	2.09	0.87	578	2.23	1.94	0.87	610
29	22	2.73	2.04	0.75	572	2.55	1.91	0.75	605	2.38	1.78	0.75	626
29	24	2.88	1.81	0.63	594	2.70	1.70	0.63	621	2.55	1.61	0.63	648
29	26	3.03	1.54	0.51	616	2.85	1.45	0.51	643	2.68	1.36	0.51	670
30	18	2.45	2.45	1.00	529	2.25	2.25	1.00	562	2.08	2.08	1.00	583
30	20	2.58	2.34	0.91	551	2.40	2.18	0.91	578	2.23	2.02	0.91	610
30	22	2.73	2.15	0.79	572	2.55	2.01	0.79	605	2.38	1.88	0.79	626
30	24	2.88	1.93	0.67	594	2.70	1.81	0.67	621	2.55	1.71	0.67	648
30	26	3.03	1.66	0.55	616	2.85	1.57	0.55	643	2.68	1.47	0.55	670
31	18	2.45	2.45	1.00	529	2.25	2.25	1.00	562	2.08	2.08	1.00	583
31	20	2.58	2.45	0.95	551	2.40	2.28	0.95	578	2.23	2.11	0.95	610
31	22	2.73	2.26	0.83	572	2.55	2.12	0.83	605	2.38	1.97	0.83	626
31	24	2.88	2.04	0.71	594	2.70	1.92	0.71	621	2.55	1.81	0.71	648
31	26	3.03	1.78	0.59	616	2.85	1.68	0.59	643	2.68	1.58	0.59	670
32	18	2.45	2.45	1.00	529	2.25	2.25	1.00	562	2.08	2.08	1.00	583
32	20	2.58	2.55	0.99	551	2.40	2.38	0.99	578	2.23	2.20	0.99	610
32	22	2.73	2.37	0.87	572	2.55	2.22	0.87	605	2.38	2.07	0.87	626
32	24	2.88	2.16	0.75	594	2.70	2.03	0.75	621	2.55	1.91	0.75	648
32	26	3.03	1.91	0.63	616	2.85	1.80	0.63	643	2.68	1.69	0.63	670

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE DATA COOL operation at Rated frequency

MFZ-KJ35VE2: MUFZ-KJ35VE MUFZ-KJ35VEHZ

CAPACITY: 3.5 kW SHF: 0.73 INPUT: 940 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)															
		21				25				27				30			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	4.11	2.26	0.55	752	3.94	2.17	0.55	790	3.78	2.08	0.55	827	3.64	2.00	0.55	865
21	20	4.29	1.84	0.43	790	4.11	1.77	0.43	837	3.99	1.72	0.43	855	3.85	1.66	0.43	893
22	18	4.11	2.43	0.59	752	3.94	2.32	0.59	790	3.78	2.23	0.59	827	3.64	2.15	0.59	865
22	20	4.29	2.02	0.47	790	4.11	1.93	0.47	837	3.99	1.88	0.47	855	3.85	1.81	0.47	893
22	22	4.46	1.56	0.35	818	4.31	1.51	0.35	870	4.20	1.47	0.35	893	4.03	1.41	0.35	931
23	18	4.11	2.59	0.63	752	3.94	2.48	0.63	790	3.78	2.38	0.63	827	3.64	2.29	0.63	865
23	20	4.29	2.19	0.51	790	4.11	2.10	0.51	837	3.99	2.03	0.51	855	3.85	1.96	0.51	893
23	22	4.46	1.74	0.39	818	4.31	1.68	0.39	870	4.20	1.64	0.39	893	4.03	1.57	0.39	931
24	18	4.11	2.76	0.67	752	3.94	2.64	0.67	790	3.78	2.53	0.67	827	3.64	2.44	0.67	865
24	20	4.29	2.36	0.55	790	4.11	2.26	0.55	837	3.99	2.19	0.55	855	3.85	2.12	0.55	893
24	22	4.46	1.92	0.43	818	4.31	1.85	0.43	870	4.20	1.81	0.43	893	4.03	1.73	0.43	931
24	24	4.69	1.45	0.31	855	4.52	1.40	0.31	902	4.41	1.37	0.31	931	4.27	1.32	0.31	978
25	18	4.11	2.92	0.71	752	3.94	2.80	0.71	790	3.78	2.68	0.71	827	3.64	2.58	0.71	865
25	20	4.29	2.53	0.59	790	4.11	2.43	0.59	837	3.99	2.35	0.59	855	3.85	2.27	0.59	893
25	22	4.46	2.10	0.47	818	4.31	2.02	0.47	870	4.20	1.97	0.47	893	4.03	1.89	0.47	931
25	24	4.69	1.64	0.35	855	4.52	1.58	0.35	902	4.41	1.54	0.35	931	4.27	1.49	0.35	978
26	18	4.11	3.08	0.75	752	3.94	2.95	0.75	790	3.78	2.84	0.75	827	3.64	2.73	0.75	865
26	20	4.29	2.70	0.63	790	4.11	2.59	0.63	837	3.99	2.51	0.63	855	3.85	2.43	0.63	893
26	22	4.46	2.28	0.51	818	4.31	2.20	0.51	870	4.20	2.14	0.51	893	4.03	2.05	0.51	931
26	24	4.69	1.83	0.39	855	4.52	1.76	0.39	902	4.41	1.72	0.39	931	4.27	1.67	0.39	978
26	26	4.83	1.30	0.27	902	4.69	1.27	0.27	949	4.62	1.25	0.27	978	4.48	1.21	0.27	1006
27	18	4.11	3.25	0.79	752	3.94	3.11	0.79	790	3.78	2.99	0.79	827	3.64	2.88	0.79	865
27	20	4.29	2.87	0.67	790	4.11	2.76	0.67	837	3.99	2.67	0.67	855	3.85	2.58	0.67	893
27	22	4.46	2.45	0.55	818	4.31	2.37	0.55	870	4.20	2.31	0.55	893	4.03	2.21	0.55	931
27	24	4.69	2.02	0.43	855	4.52	1.94	0.43	902	4.41	1.90	0.43	931	4.27	1.84	0.43	978
27	26	4.83	1.50	0.31	902	4.69	1.45	0.31	949	4.62	1.43	0.31	978	4.48	1.39	0.31	1006
28	18	4.11	3.41	0.83	752	3.94	3.27	0.83	790	3.78	3.14	0.83	827	3.64	3.02	0.83	865
28	20	4.29	3.04	0.71	790	4.11	2.92	0.71	837	3.99	2.83	0.71	855	3.85	2.73	0.71	893
28	22	4.46	2.63	0.59	818	4.31	2.54	0.59	870	4.20	2.48	0.59	893	4.03	2.37	0.59	931
28	24	4.69	2.20	0.47	855	4.52	2.12	0.47	902	4.41	2.07	0.47	931	4.27	2.01	0.47	978
28	26	4.83	1.69	0.35	902	4.69	1.64	0.35	949	4.62	1.62	0.35	978	4.48	1.57	0.35	1006
29	18	4.11	3.58	0.87	752	3.94	3.43	0.87	790	3.78	3.29	0.87	827	3.64	3.17	0.87	865
29	20	4.29	3.22	0.75	790	4.11	3.08	0.75	837	3.99	2.99	0.75	855	3.85	2.89	0.75	893
29	22	4.46	2.81	0.63	818	4.31	2.71	0.63	870	4.20	2.65	0.63	893	4.03	2.54	0.63	931
29	24	4.69	2.39	0.51	855	4.52	2.30	0.51	902	4.41	2.25	0.51	931	4.27	2.18	0.51	978
29	26	4.83	1.88	0.39	902	4.69	1.83	0.39	949	4.62	1.80	0.39	978	4.48	1.75	0.39	1006
30	18	4.11	3.74	0.91	752	3.94	3.58	0.91	790	3.78	3.44	0.91	827	3.64	3.31	0.91	865
30	20	4.29	3.39	0.79	790	4.11	3.25	0.79	837	3.99	3.15	0.79	855	3.85	3.04	0.79	893
30	22	4.46	2.99	0.67	818	4.31	2.88	0.67	870	4.20	2.81	0.67	893	4.03	2.70	0.67	931
30	24	4.69	2.58	0.55	855	4.52	2.48	0.55	902	4.41	2.43	0.55	931	4.27	2.35	0.55	978
30	26	4.83	2.08	0.43	902	4.69	2.02	0.43	949	4.62	1.99	0.43	978	4.48	1.93	0.43	1006
31	18	4.11	3.91	0.95	752	3.94	3.74	0.95	790	3.78	3.59	0.95	827	3.64	3.46	0.95	865
31	20	4.29	3.56	0.83	790	4.11	3.41	0.83	837	3.99	3.31	0.83	855	3.85	3.20	0.83	893
31	22	4.46	3.17	0.71	818	4.31	3.06	0.71	870	4.20	2.98	0.71	893	4.03	2.86	0.71	931
31	24	4.69	2.77	0.59	855	4.52	2.66	0.59	902	4.41	2.60	0.59	931	4.27	2.52	0.59	978
31	26	4.83	2.27	0.47	902	4.69	2.20	0.47	949	4.62	2.17	0.47	978	4.48	2.11	0.47	1006
32	18	4.11	4.07	0.99	752	3.94	3.90	0.99	790	3.78	3.74	0.99	827	3.64	3.60	0.99	865
32	20	4.29	3.73	0.87	790	4.11	3.58	0.87	837	3.99	3.47	0.87	855	3.85	3.35	0.87	893
32	22	4.46	3.35	0.75	818	4.31	3.23	0.75	870	4.20	3.15	0.75	893	4.03	3.02	0.75	931
32	24	4.69	2.95	0.63	855	4.52	2.84	0.63	902	4.41	2.78	0.63	931	4.27	2.69	0.63	978
32	26	4.83	2.46	0.51	902	4.69	2.39	0.51	949	4.62	2.36	0.51	978	4.48	2.28	0.51	1006

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE DATA COOL operation at Rated frequency

MFZ-KJ35VE2: MUFZ-KJ35VE MUFZ-KJ35VEHZ

CAPACITY: 3.5 kW SHF: 0.73 INPUT: 940 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)											
		35				40				46			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	3.43	1.89	0.55	921	3.15	1.73	0.55	978	2.91	1.60	0.55	1015
21	20	3.61	1.55	0.43	959	3.36	1.44	0.43	1006	3.12	1.34	0.43	1062
22	18	3.43	2.02	0.59	921	3.15	1.86	0.59	978	2.91	1.71	0.59	1015
22	20	3.61	1.69	0.47	959	3.36	1.58	0.47	1006	3.12	1.46	0.47	1062
22	22	3.82	1.34	0.35	996	3.57	1.25	0.35	1053	3.33	1.16	0.35	1090
23	18	3.43	2.16	0.63	921	3.15	1.98	0.63	978	2.91	1.83	0.63	1015
23	20	3.61	1.84	0.51	959	3.36	1.71	0.51	1006	3.12	1.59	0.51	1062
23	22	3.82	1.49	0.39	996	3.57	1.39	0.39	1053	3.33	1.30	0.39	1090
24	18	3.43	2.30	0.67	921	3.15	2.11	0.67	978	2.91	1.95	0.67	1015
24	20	3.61	1.98	0.55	959	3.36	1.85	0.55	1006	3.12	1.71	0.55	1062
24	22	3.82	1.64	0.43	996	3.57	1.54	0.43	1053	3.33	1.43	0.43	1090
24	24	4.03	1.25	0.31	1034	3.78	1.17	0.31	1081	3.57	1.11	0.31	1128
25	18	3.43	2.44	0.71	921	3.15	2.24	0.71	978	2.91	2.06	0.71	1015
25	20	3.61	2.13	0.59	959	3.36	1.98	0.59	1006	3.12	1.84	0.59	1062
25	22	3.82	1.79	0.47	996	3.57	1.68	0.47	1053	3.33	1.56	0.47	1090
25	24	4.03	1.41	0.35	1034	3.78	1.32	0.35	1081	3.57	1.25	0.35	1128
26	18	3.43	2.57	0.75	921	3.15	2.36	0.75	978	2.91	2.18	0.75	1015
26	20	3.61	2.27	0.63	959	3.36	2.12	0.63	1006	3.12	1.96	0.63	1062
26	22	3.82	1.95	0.51	996	3.57	1.82	0.51	1053	3.33	1.70	0.51	1090
26	24	4.03	1.57	0.39	1034	3.78	1.47	0.39	1081	3.57	1.39	0.39	1128
26	26	4.24	1.14	0.27	1072	3.99	1.08	0.27	1119	3.75	1.01	0.27	1166
27	18	3.43	2.71	0.79	921	3.15	2.49	0.79	978	2.91	2.29	0.79	1015
27	20	3.61	2.42	0.67	959	3.36	2.25	0.67	1006	3.12	2.09	0.67	1062
27	22	3.82	2.10	0.55	996	3.57	1.96	0.55	1053	3.33	1.83	0.55	1090
27	24	4.03	1.73	0.43	1034	3.78	1.63	0.43	1081	3.57	1.54	0.43	1128
27	26	4.24	1.31	0.31	1072	3.99	1.24	0.31	1119	3.75	1.16	0.31	1166
28	18	3.43	2.85	0.83	921	3.15	2.61	0.83	978	2.91	2.41	0.83	1015
28	20	3.61	2.56	0.71	959	3.36	2.39	0.71	1006	3.12	2.21	0.71	1062
28	22	3.82	2.25	0.59	996	3.57	2.11	0.59	1053	3.33	1.96	0.59	1090
28	24	4.03	1.89	0.47	1034	3.78	1.78	0.47	1081	3.57	1.68	0.47	1128
28	26	4.24	1.48	0.35	1072	3.99	1.40	0.35	1119	3.75	1.31	0.35	1166
29	18	3.43	2.98	0.87	921	3.15	2.74	0.87	978	2.91	2.53	0.87	1015
29	20	3.61	2.70	0.75	959	3.36	2.52	0.75	1006	3.12	2.34	0.75	1062
29	22	3.82	2.40	0.63	996	3.57	2.25	0.63	1053	3.33	2.09	0.63	1090
29	24	4.03	2.05	0.51	1034	3.78	1.93	0.51	1081	3.57	1.82	0.51	1128
29	26	4.24	1.65	0.39	1072	3.99	1.56	0.39	1119	3.75	1.46	0.39	1166
30	18	3.43	3.12	0.91	921	3.15	2.87	0.91	978	2.91	2.64	0.91	1015
30	20	3.61	2.85	0.79	959	3.36	2.65	0.79	1006	3.12	2.46	0.79	1062
30	22	3.82	2.56	0.67	996	3.57	2.39	0.67	1053	3.33	2.23	0.67	1090
30	24	4.03	2.21	0.55	1034	3.78	2.08	0.55	1081	3.57	1.96	0.55	1128
30	26	4.24	1.82	0.43	1072	3.99	1.72	0.43	1119	3.75	1.61	0.43	1166
31	18	3.43	3.26	0.95	921	3.15	2.99	0.95	978	2.91	2.76	0.95	1015
31	20	3.61	2.99	0.83	959	3.36	2.79	0.83	1006	3.12	2.59	0.83	1062
31	22	3.82	2.71	0.71	996	3.57	2.53	0.71	1053	3.33	2.36	0.71	1090
31	24	4.03	2.37	0.59	1034	3.78	2.23	0.59	1081	3.57	2.11	0.59	1128
31	26	4.24	1.99	0.47	1072	3.99	1.88	0.47	1119	3.75	1.76	0.47	1166
32	18	3.43	3.40	0.99	921	3.15	3.12	0.99	978	2.91	2.88	0.99	1015
32	20	3.61	3.14	0.87	959	3.36	2.92	0.87	1006	3.12	2.71	0.87	1062
32	22	3.82	2.86	0.75	996	3.57	2.68	0.75	1053	3.33	2.49	0.75	1090
32	24	4.03	2.54	0.63	1034	3.78	2.38	0.63	1081	3.57	2.25	0.63	1128
32	26	4.24	2.16	0.51	1072	3.99	2.03	0.51	1119	3.75	1.91	0.51	1166

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE DATA COOL operation at Rated frequency

MFZ-KJ50VE2: MUFZ-KJ50VE MUFZ-KJ50VEHZ

CAPACITY: 5.0 kW SHF: 0.71 INPUT: 1410 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)															
		21				25				27				30			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	5.88	3.11	0.53	1128	5.63	2.98	0.53	1184	5.40	2.86	0.53	1241	5.20	2.76	0.53	1297
21	20	6.13	2.51	0.41	1184	5.88	2.41	0.41	1255	5.70	2.34	0.41	1283	5.50	2.26	0.41	1340
22	18	5.88	3.35	0.57	1128	5.63	3.21	0.57	1184	5.40	3.08	0.57	1241	5.20	2.96	0.57	1297
22	20	6.13	2.76	0.45	1184	5.88	2.64	0.45	1255	5.70	2.57	0.45	1283	5.50	2.48	0.45	1340
22	22	6.38	2.10	0.33	1227	6.15	2.03	0.33	1304	6.00	1.98	0.33	1340	5.75	1.90	0.33	1396
23	18	5.88	3.58	0.61	1128	5.63	3.43	0.61	1184	5.40	3.29	0.61	1241	5.20	3.17	0.61	1297
23	20	6.13	3.00	0.49	1184	5.88	2.88	0.49	1255	5.70	2.79	0.49	1283	5.50	2.70	0.49	1340
23	22	6.38	2.36	0.37	1227	6.15	2.28	0.37	1304	6.00	2.22	0.37	1340	5.75	2.13	0.37	1396
24	18	5.88	3.82	0.65	1128	5.63	3.66	0.65	1184	5.40	3.51	0.65	1241	5.20	3.38	0.65	1297
24	20	6.13	3.25	0.53	1184	5.88	3.11	0.53	1255	5.70	3.02	0.53	1283	5.50	2.92	0.53	1340
24	22	6.38	2.61	0.41	1227	6.15	2.52	0.41	1304	6.00	2.46	0.41	1340	5.75	2.36	0.41	1396
24	24	6.70	1.94	0.29	1283	6.45	1.87	0.29	1354	6.30	1.83	0.29	1396	6.10	1.77	0.29	1466
25	18	5.88	4.05	0.69	1128	5.63	3.88	0.69	1184	5.40	3.73	0.69	1241	5.20	3.59	0.69	1297
25	20	6.13	3.49	0.57	1184	5.88	3.35	0.57	1255	5.70	3.25	0.57	1283	5.50	3.14	0.57	1340
25	22	6.38	2.87	0.45	1227	6.15	2.77	0.45	1304	6.00	2.70	0.45	1340	5.75	2.59	0.45	1396
25	24	6.70	2.21	0.33	1283	6.45	2.13	0.33	1354	6.30	2.08	0.33	1396	6.10	2.01	0.33	1466
26	18	5.88	4.29	0.73	1128	5.63	4.11	0.73	1184	5.40	3.94	0.73	1241	5.20	3.80	0.73	1297
26	20	6.13	3.74	0.61	1184	5.88	3.58	0.61	1255	5.70	3.48	0.61	1283	5.50	3.36	0.61	1340
26	22	6.38	3.12	0.49	1227	6.15	3.01	0.49	1304	6.00	2.94	0.49	1340	5.75	2.82	0.49	1396
26	24	6.70	2.48	0.37	1283	6.45	2.39	0.37	1354	6.30	2.33	0.37	1396	6.10	2.26	0.37	1466
26	26	6.90	1.73	0.25	1354	6.70	1.68	0.25	1424	6.60	1.65	0.25	1466	6.40	1.60	0.25	1509
27	18	5.88	4.52	0.77	1128	5.63	4.33	0.77	1184	5.40	4.16	0.77	1241	5.20	4.00	0.77	1297
27	20	6.13	3.98	0.65	1184	5.88	3.82	0.65	1255	5.70	3.71	0.65	1283	5.50	3.58	0.65	1340
27	22	6.38	3.38	0.53	1227	6.15	3.26	0.53	1304	6.00	3.18	0.53	1340	5.75	3.05	0.53	1396
27	24	6.70	2.75	0.41	1283	6.45	2.64	0.41	1354	6.30	2.58	0.41	1396	6.10	2.50	0.41	1466
27	26	6.90	2.00	0.29	1354	6.70	1.94	0.29	1424	6.60	1.91	0.29	1466	6.40	1.86	0.29	1509
28	18	5.88	4.76	0.81	1128	5.63	4.56	0.81	1184	5.40	4.37	0.81	1241	5.20	4.21	0.81	1297
28	20	6.13	4.23	0.69	1184	5.88	4.05	0.69	1255	5.70	3.93	0.69	1283	5.50	3.80	0.69	1340
28	22	6.38	3.63	0.57	1227	6.15	3.51	0.57	1304	6.00	3.42	0.57	1340	5.75	3.28	0.57	1396
28	24	6.70	3.02	0.45	1283	6.45	2.90	0.45	1354	6.30	2.84	0.45	1396	6.10	2.75	0.45	1466
28	26	6.90	2.28	0.33	1354	6.70	2.21	0.33	1424	6.60	2.18	0.33	1466	6.40	2.11	0.33	1509
29	18	5.88	4.99	0.85	1128	5.63	4.78	0.85	1184	5.40	4.59	0.85	1241	5.20	4.42	0.85	1297
29	20	6.13	4.47	0.73	1184	5.88	4.29	0.73	1255	5.70	4.16	0.73	1283	5.50	4.02	0.73	1340
29	22	6.38	3.89	0.61	1227	6.15	3.75	0.61	1304	6.00	3.66	0.61	1340	5.75	3.51	0.61	1396
29	24	6.70	3.28	0.49	1283	6.45	3.16	0.49	1354	6.30	3.09	0.49	1396	6.10	2.99	0.49	1466
29	26	6.90	2.55	0.37	1354	6.70	2.48	0.37	1424	6.60	2.44	0.37	1466	6.40	2.37	0.37	1509
30	18	5.88	5.23	0.89	1128	5.63	5.01	0.89	1184	5.40	4.81	0.89	1241	5.20	4.63	0.89	1297
30	20	6.13	4.72	0.77	1184	5.88	4.52	0.77	1255	5.70	4.39	0.77	1283	5.50	4.24	0.77	1340
30	22	6.38	4.14	0.65	1227	6.15	4.00	0.65	1304	6.00	3.90	0.65	1340	5.75	3.74	0.65	1396
30	24	6.70	3.55	0.53	1283	6.45	3.42	0.53	1354	6.30	3.34	0.53	1396	6.10	3.23	0.53	1466
30	26	6.90	2.83	0.41	1354	6.70	2.75	0.41	1424	6.60	2.71	0.41	1466	6.40	2.62	0.41	1509
31	18	5.88	5.46	0.93	1128	5.63	5.23	0.93	1184	5.40	5.02	0.93	1241	5.20	4.84	0.93	1297
31	20	6.13	4.96	0.81	1184	5.88	4.76	0.81	1255	5.70	4.62	0.81	1283	5.50	4.46	0.81	1340
31	22	6.38	4.40	0.69	1227	6.15	4.24	0.69	1304	6.00	4.14	0.69	1340	5.75	3.97	0.69	1396
31	24	6.70	3.82	0.57	1283	6.45	3.68	0.57	1354	6.30	3.59	0.57	1396	6.10	3.48	0.57	1466
31	26	6.90	3.11	0.45	1354	6.70	3.02	0.45	1424	6.60	2.97	0.45	1466	6.40	2.88	0.45	1509
32	18	5.88	5.70	0.97	1128	5.63	5.46	0.97	1184	5.40	5.24	0.97	1241	5.20	5.04	0.97	1297
32	20	6.13	5.21	0.85	1184	5.88	4.99	0.85	1255	5.70	4.84	0.85	1283	5.50	4.68	0.85	1340
32	22	6.38	4.65	0.73	1227	6.15	4.49	0.73	1304	6.00	4.38	0.73	1340	5.75	4.20	0.73	1396
32	24	6.70	4.09	0.61	1283	6.45	3.93	0.61	1354	6.30	3.84	0.61	1396	6.10	3.72	0.61	1466
32	26	6.90	3.38	0.49	1354	6.70	3.28	0.49	1424	6.60	3.23	0.49	1466	6.40	3.14	0.49	1509

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE DATA COOL operation at Rated frequency

MFZ-KJ50VE2: MUFZ-KJ50VE MUFZ-KJ50VEHZ

CAPACITY: 5.0 kW SHF: 0.71 INPUT: 1410 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)											
		35				40				46			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	4.90	2.60	0.53	1382	4.50	2.39	0.53	1466	4.15	2.20	0.53	1523
21	20	5.15	2.11	0.41	1438	4.80	1.97	0.41	1509	4.45	1.82	0.41	1593
22	18	4.90	2.79	0.57	1382	4.50	2.57	0.57	1466	4.15	2.37	0.57	1523
22	20	5.15	2.32	0.45	1438	4.80	2.16	0.45	1509	4.45	2.00	0.45	1593
22	22	5.45	1.80	0.33	1495	5.10	1.68	0.33	1579	4.75	1.57	0.33	1636
23	18	4.90	2.99	0.61	1382	4.50	2.75	0.61	1466	4.15	2.53	0.61	1523
23	20	5.15	2.52	0.49	1438	4.80	2.35	0.49	1509	4.45	2.18	0.49	1593
23	22	5.45	2.02	0.37	1495	5.10	1.89	0.37	1579	4.75	1.76	0.37	1636
24	18	4.90	3.19	0.65	1382	4.50	2.93	0.65	1466	4.15	2.70	0.65	1523
24	20	5.15	2.73	0.53	1438	4.80	2.54	0.53	1509	4.45	2.36	0.53	1593
24	22	5.45	2.23	0.41	1495	5.10	2.09	0.41	1579	4.75	1.95	0.41	1636
24	24	5.75	1.67	0.29	1551	5.40	1.57	0.29	1621	5.10	1.48	0.29	1692
25	18	4.90	3.38	0.69	1382	4.50	3.11	0.69	1466	4.15	2.86	0.69	1523
25	20	5.15	2.94	0.57	1438	4.80	2.74	0.57	1509	4.45	2.54	0.57	1593
25	22	5.45	2.45	0.45	1495	5.10	2.30	0.45	1579	4.75	2.14	0.45	1636
25	24	5.75	1.90	0.33	1551	5.40	1.78	0.33	1621	5.10	1.68	0.33	1692
26	18	4.90	3.58	0.73	1382	4.50	3.29	0.73	1466	4.15	3.03	0.73	1523
26	20	5.15	3.14	0.61	1438	4.80	2.93	0.61	1509	4.45	2.71	0.61	1593
26	22	5.45	2.67	0.49	1495	5.10	2.50	0.49	1579	4.75	2.33	0.49	1636
26	24	5.75	2.13	0.37	1551	5.40	2.00	0.37	1621	5.10	1.89	0.37	1692
26	26	6.05	1.51	0.25	1607	5.70	1.43	0.25	1678	5.35	1.34	0.25	1748
27	18	4.90	3.77	0.77	1382	4.50	3.47	0.77	1466	4.15	3.20	0.77	1523
27	20	5.15	3.35	0.65	1438	4.80	3.12	0.65	1509	4.45	2.89	0.65	1593
27	22	5.45	2.89	0.53	1495	5.10	2.70	0.53	1579	4.75	2.52	0.53	1636
27	24	5.75	2.36	0.41	1551	5.40	2.21	0.41	1621	5.10	2.09	0.41	1692
27	26	6.05	1.75	0.29	1607	5.70	1.65	0.29	1678	5.35	1.55	0.29	1748
28	18	4.90	3.97	0.81	1382	4.50	3.65	0.81	1466	4.15	3.36	0.81	1523
28	20	5.15	3.55	0.69	1438	4.80	3.31	0.69	1509	4.45	3.07	0.69	1593
28	22	5.45	3.11	0.57	1495	5.10	2.91	0.57	1579	4.75	2.71	0.57	1636
28	24	5.75	2.59	0.45	1551	5.40	2.43	0.45	1621	5.10	2.30	0.45	1692
28	26	6.05	2.00	0.33	1607	5.70	1.88	0.33	1678	5.35	1.77	0.33	1748
29	18	4.90	4.17	0.85	1382	4.50	3.83	0.85	1466	4.15	3.53	0.85	1523
29	20	5.15	3.76	0.73	1438	4.80	3.50	0.73	1509	4.45	3.25	0.73	1593
29	22	5.45	3.32	0.61	1495	5.10	3.11	0.61	1579	4.75	2.90	0.61	1636
29	24	5.75	2.82	0.49	1551	5.40	2.65	0.49	1621	5.10	2.50	0.49	1692
29	26	6.05	2.24	0.37	1607	5.70	2.11	0.37	1678	5.35	1.98	0.37	1748
30	18	4.90	4.36	0.89	1382	4.50	4.01	0.89	1466	4.15	3.69	0.89	1523
30	20	5.15	3.97	0.77	1438	4.80	3.70	0.77	1509	4.45	3.43	0.77	1593
30	22	5.45	3.54	0.65	1495	5.10	3.32	0.65	1579	4.75	3.09	0.65	1636
30	24	5.75	3.05	0.53	1551	5.40	2.86	0.53	1621	5.10	2.70	0.53	1692
30	26	6.05	2.48	0.41	1607	5.70	2.34	0.41	1678	5.35	2.19	0.41	1748
31	18	4.90	4.56	0.93	1382	4.50	4.19	0.93	1466	4.15	3.86	0.93	1523
31	20	5.15	4.17	0.81	1438	4.80	3.89	0.81	1509	4.45	3.60	0.81	1593
31	22	5.45	3.76	0.69	1495	5.10	3.52	0.69	1579	4.75	3.28	0.69	1636
31	24	5.75	3.28	0.57	1551	5.40	3.08	0.57	1621	5.10	2.91	0.57	1692
31	26	6.05	2.72	0.45	1607	5.70	2.57	0.45	1678	5.35	2.41	0.45	1748
32	18	4.90	4.75	0.97	1382	4.50	4.37	0.97	1466	4.15	4.03	0.97	1523
32	20	5.15	4.38	0.85	1438	4.80	4.08	0.85	1509	4.45	3.78	0.85	1593
32	22	5.45	3.98	0.73	1495	5.10	3.72	0.73	1579	4.75	3.47	0.73	1636
32	24	5.75	3.51	0.61	1551	5.40	3.29	0.61	1621	5.10	3.11	0.61	1692
32	26	6.05	2.96	0.49	1607	5.70	2.79	0.49	1678	5.35	2.62	0.49	1748

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE DATA HEAT operation at Rated frequency

MFZ-KJ25VE2: MUFZ-KJ25VE MUFZ-KJ25VEHZ

CAPACITY: 3.4 kW INPUT: 770 W

INDOOR DB (°C)	OUTDOOR WB (°C)													
	-10		-5		0		5		10		15		20	
	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
15	2.14	501	2.58	601	3.03	678	3.47	732	3.91	778	4.32	801	4.76	816
21	2.04	539	2.45	639	2.89	708	3.30	762	3.74	801	4.15	824	4.57	855
26	1.84	578	2.28	678	2.69	747	3.13	801	3.57	839	3.98	862	4.42	886

MFZ-KJ35VE2: MUFZ-KJ35VE MUFZ-KJ35VEHZ

CAPACITY: 4.3 kW INPUT: 1100 W

INDOOR DB (°C)	OUTDOOR WB (°C)													
	-10		-5		0		5		10		15		20	
	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
15	2.71	715	3.27	858	3.83	968	4.39	1045	4.95	1111	5.46	1144	6.02	1166
21	2.58	770	3.10	913	3.66	1012	4.17	1089	4.73	1144	5.25	1177	5.78	1221
26	2.32	825	2.88	968	3.40	1067	3.96	1144	4.52	1199	5.03	1232	5.59	1265

MFZ-KJ50VE2: MUFZ-KJ50VE MUFZ-KJ50VEHZ

CAPACITY: 6.0 kW INPUT: 1610 W

INDOOR DB (°C)	OUTDOOR WB (°C)													
	-10		-5		0		5		10		15		20	
	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
15	3.78	1047	4.56	1256	5.34	1417	6.12	1530	6.90	1626	7.62	1674	8.40	1707
21	3.60	1127	4.32	1336	5.10	1481	5.82	1594	6.60	1674	7.32	1723	8.07	1787
26	3.24	1208	4.02	1417	4.74	1562	5.52	1674	6.30	1755	7.02	1803	7.80	1852

NOTE: Q: Total capacity (kW) INPUT : Total power input (W) DB: Dry-bulb temperature WB: Wet-bulb temperature

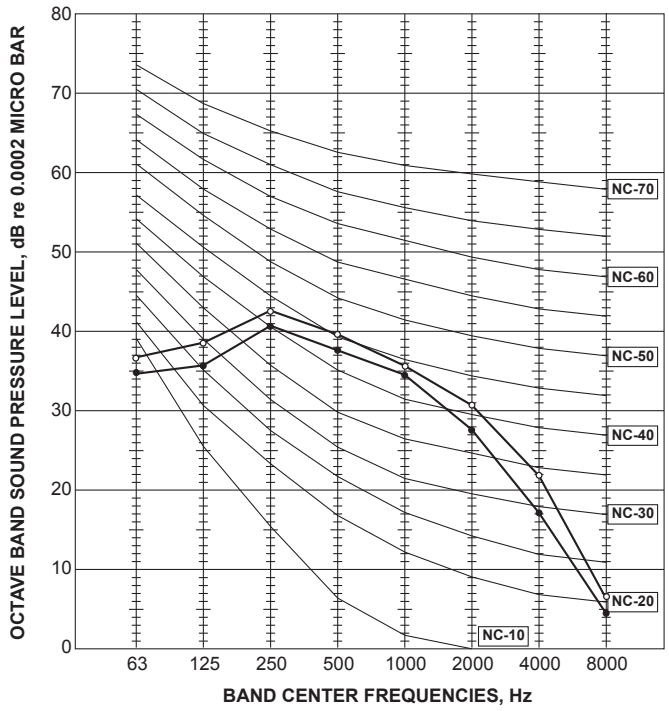
C.2.7 NOISE CRITERIA CURVES

C.2.7.1 Inverter Heat Pump

MFZ-KJ25VE2

INDOOR UNIT

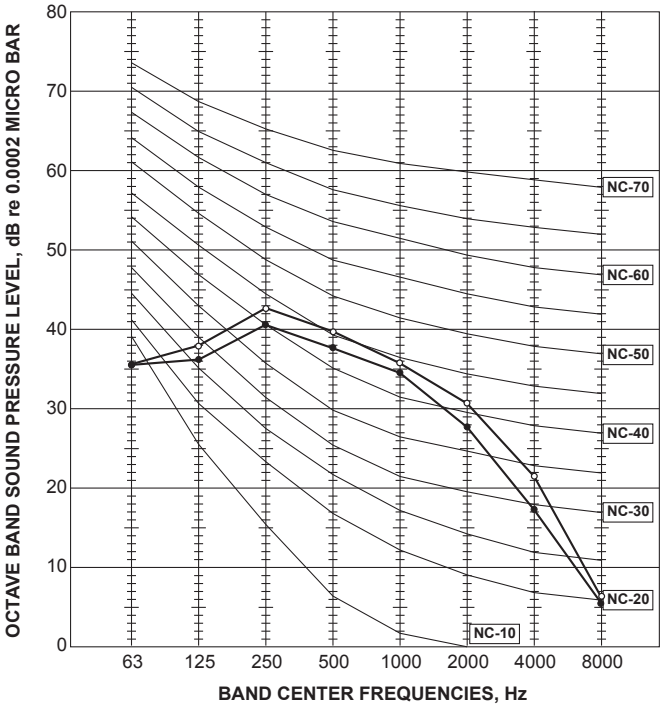
FAN SPEED	FUNCTION	SPL(dB(A))	LINE
Super High	COOLING	39	●—●
	HEATING	41	○—○



MFZ-KJ35VE2

INDOOR UNIT

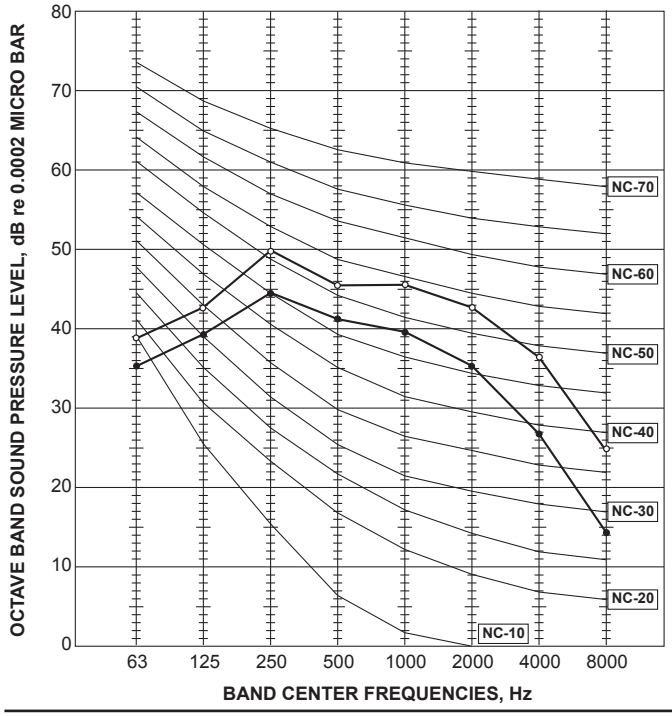
FAN SPEED	FUNCTION	SPL(dB(A))	LINE
Super High	COOLING	39	●—●
	HEATING	41	○—○



MFZ-KJ50VE2

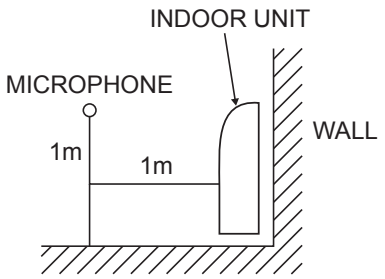
INDOOR UNIT

FAN SPEED	FUNCTION	SPL(dB(A))	LINE
Super High	COOLING	44	●—●
	HEATING	50	○—○



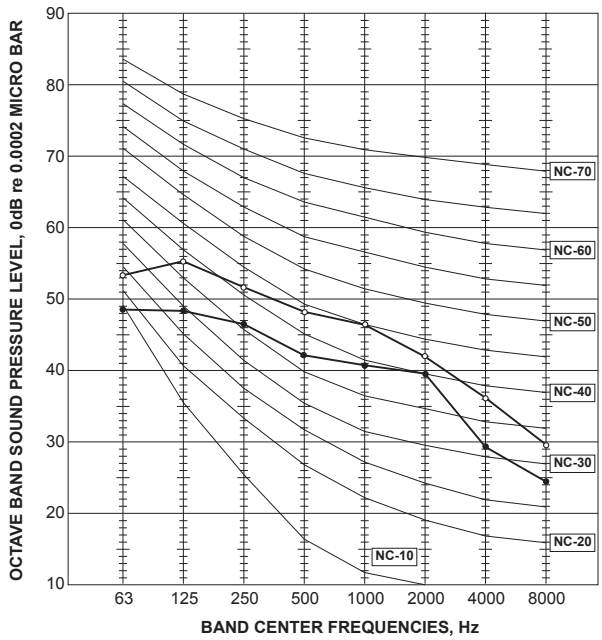
Test conditions

Cooling : Dry-bulb temperature 27 °C Wet-bulb temperature 19 °C
Heating : Dry-bulb temperature 20 °C



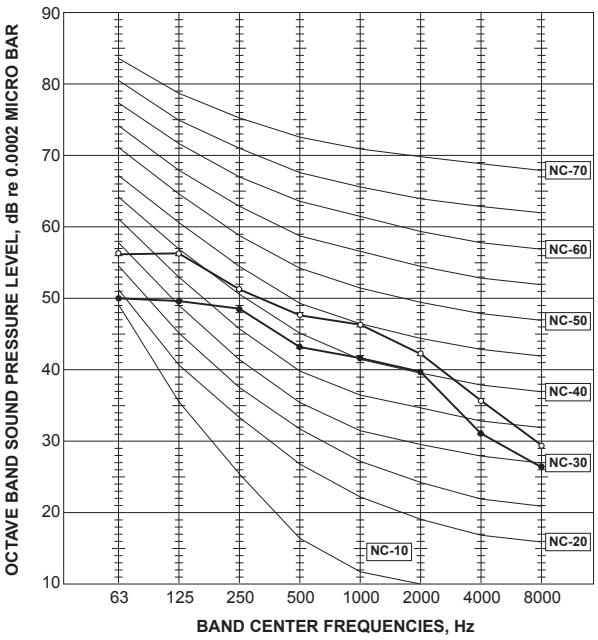
MUFZ-KJ25VE MUFZ-KJ25VEHZ
OUTDOOR UNIT

FUNCTION	SPL(dB(A))	LINE
COOLING	46	●—●
HEATING	51	○—○



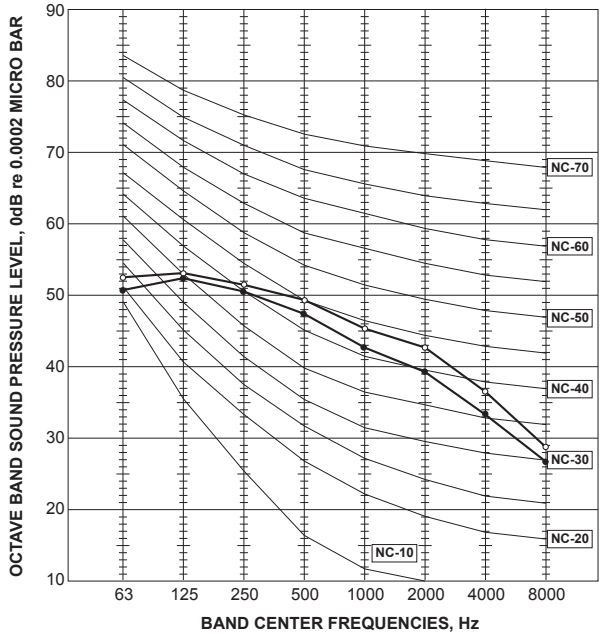
MUFZ-KJ35VE MUFZ-KJ35VEHZ
OUTDOOR UNIT

FUNCTION	SPL(dB(A))	LINE
COOLING	47	●—●
HEATING	51	○—○

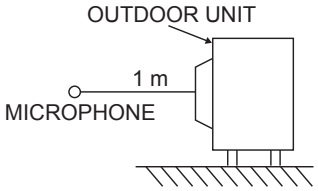


MUFZ-KJ50VE MUFZ-KJ50VEHZ
OUTDOOR UNIT

FUNCTION	SPL(dB(A))	LINE
COOLING	49	●—●
HEATING	51	○—○



Test conditions
Cooling: Dry-bulb temperature 35°C
Heating: Dry-bulb temperature 7°C Wet-bulb temperature 6°C



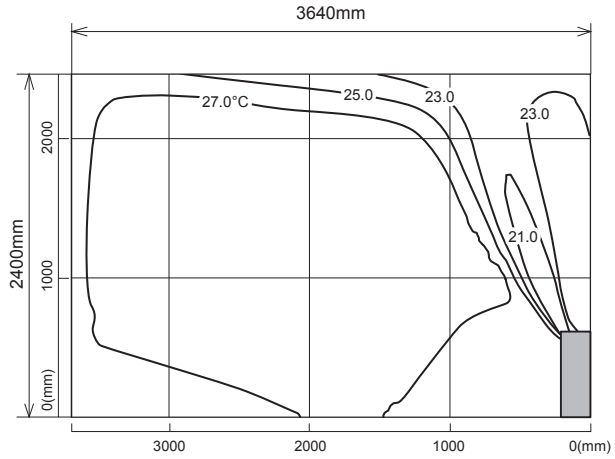
C.2.8 TEMPERATURE AND AIR FLOW DISTRIBUTIONS

MFZ-KJ25VE2

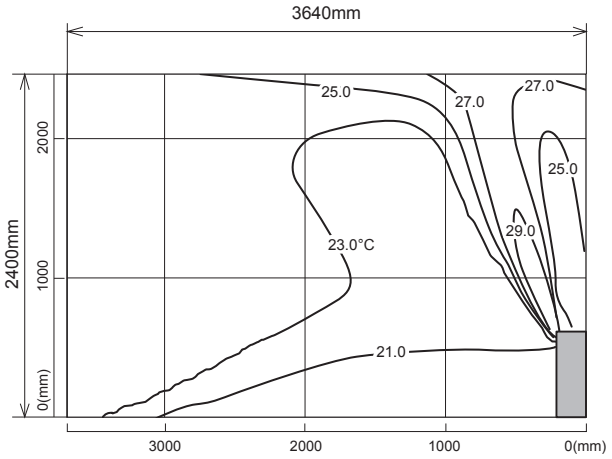
Standard installation (One-direction air flow)

Temperature distribution

<Cooling mode>
Air volume: super high
Air direction: auto

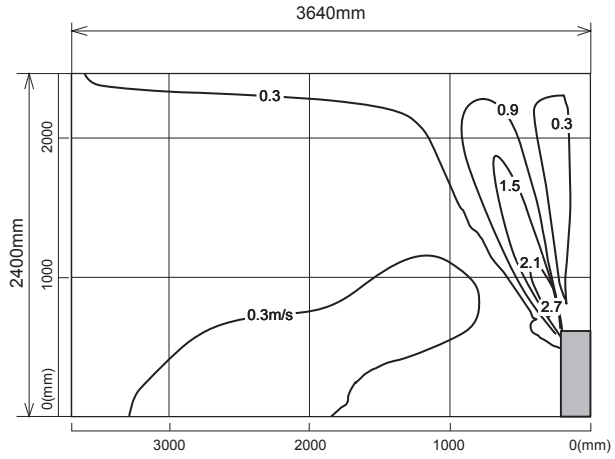


<Heating mode>
Air volume: super high
Air direction: auto

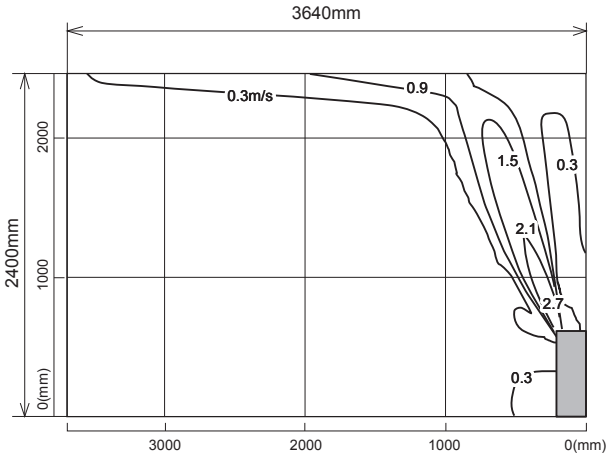


Airflow distribution

<Cooling mode>
Air volume: super high
Air direction: auto



<Heating mode>
Air volume: super high
Air direction: auto



Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load,obstacles,etc.

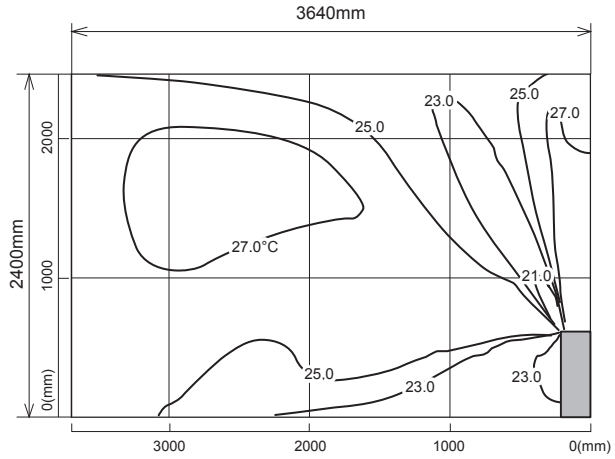
MFZ-KJ25VE2

Standard installation (Two-direction air flow)

Temperature distribution

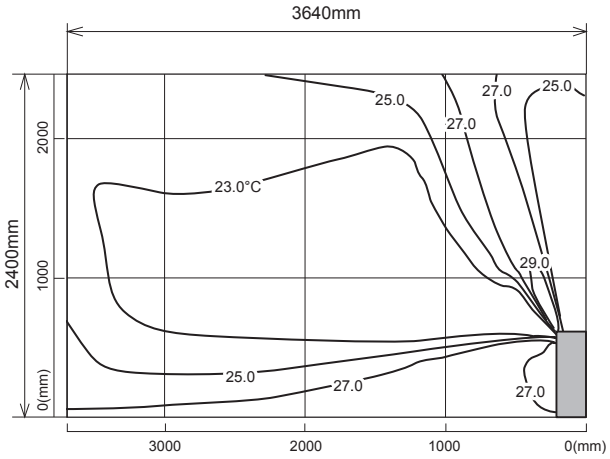
<Cooling mode>

Air volume: super high
Air direction: auto



<Heating mode>

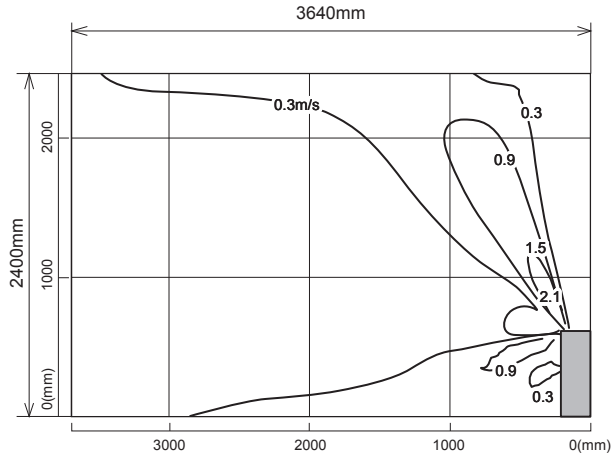
Air volume: super high
Air direction: auto



Airflow distribution

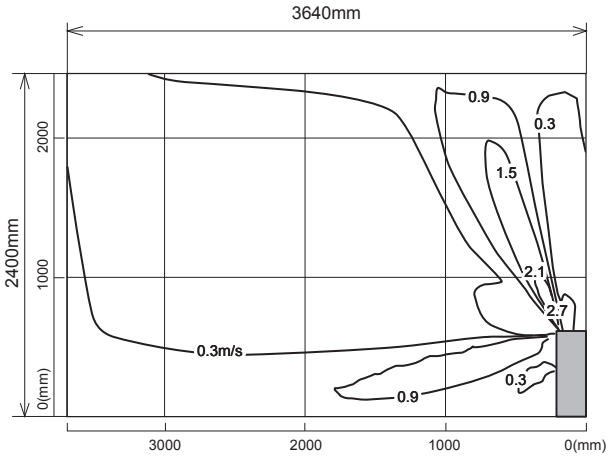
<Cooling mode>

Air volume: super high
Air direction: auto



<Heating mode>

Air volume: super high
Air direction: auto



Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load,obstacles,etc.

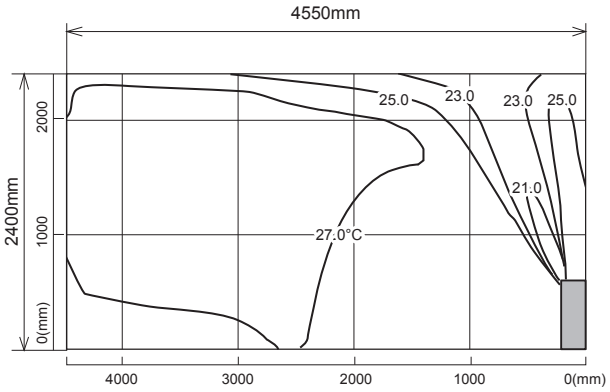
MFZ-KJ35VE2

Standard installation (One-direction air flow)

Temperature distribution

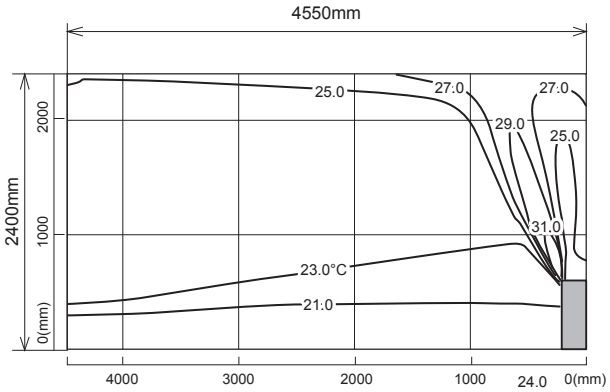
<Cooling mode>

Air volume: super high
Air direction: auto



<Heating mode>

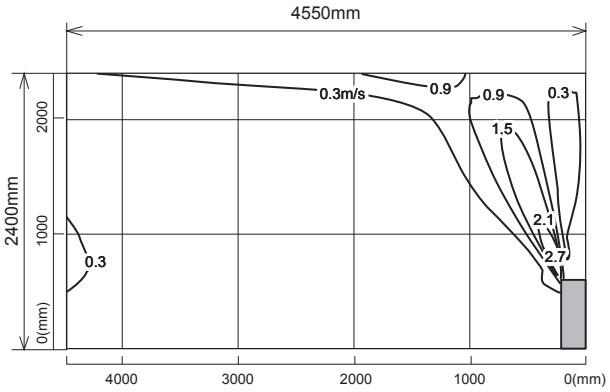
Air volume: super high
Air direction: auto



Airflow distribution

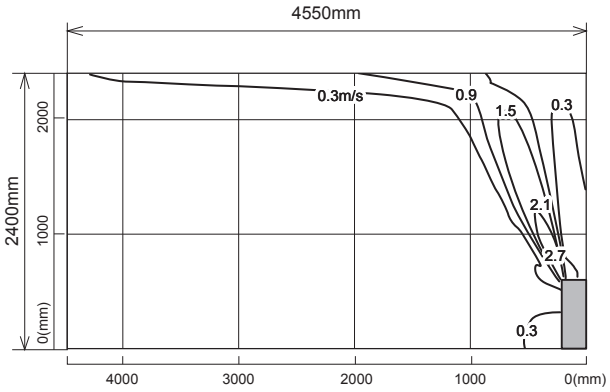
<Cooling mode>

Air volume: super high
Air direction: auto



<Heating mode>

Air volume: super high
Air direction: auto



Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load,obstacles,etc.

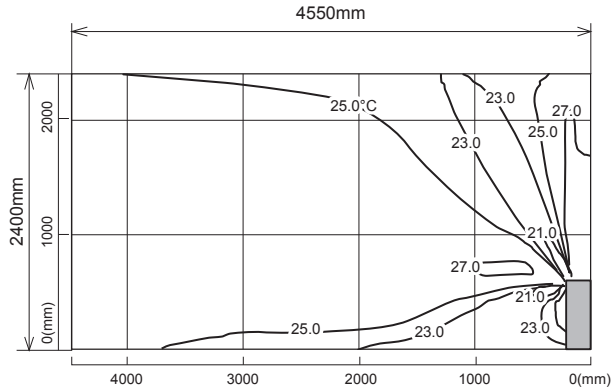
MFZ-KJ35VE2

Standard installation (Two-direction air flow)

Temperature distribution

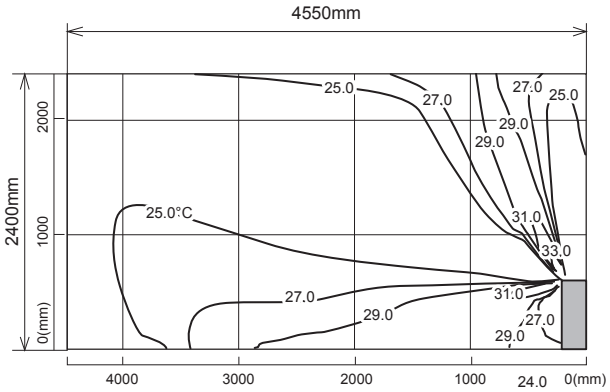
<Cooling mode>

Air volume: super high
Air direction: auto



<Heating mode>

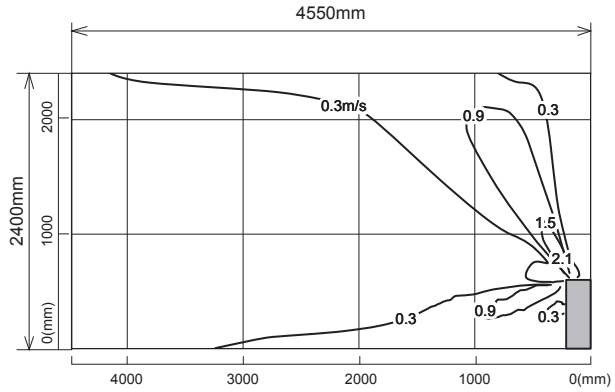
Air volume: super high
Air direction: auto



Airflow distribution

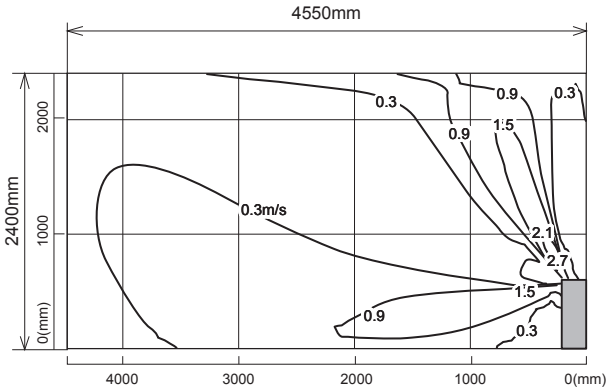
<Cooling mode>

Air volume: super high
Air direction: auto



<Heating mode>

Air volume: super high
Air direction: auto



Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load,obstacles,etc.

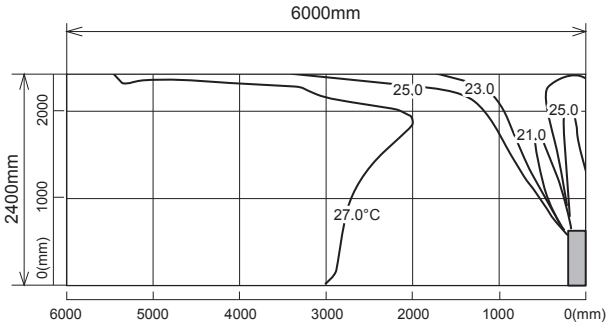
MFZ-KJ50VE2

Standard installation (One-direction air flow)

Temperature distribution

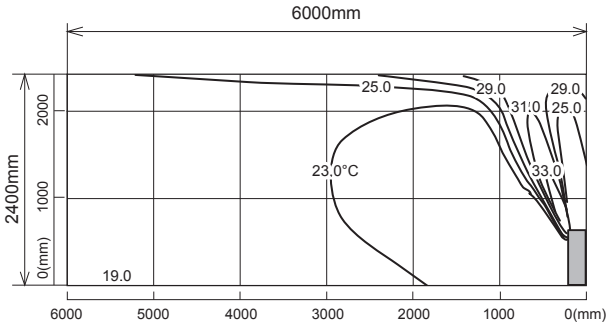
<Cooling mode>

Air volume: super high
Air direction: auto



<Heating mode>

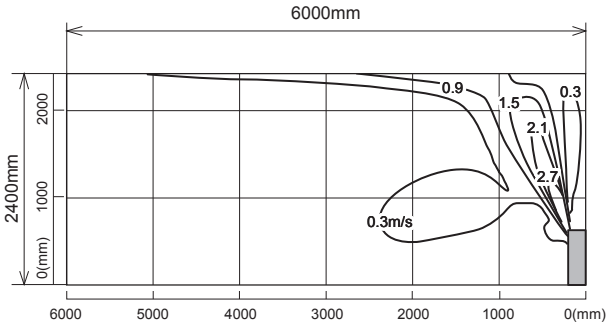
Air volume: super high
Air direction: auto



Airflow distribution

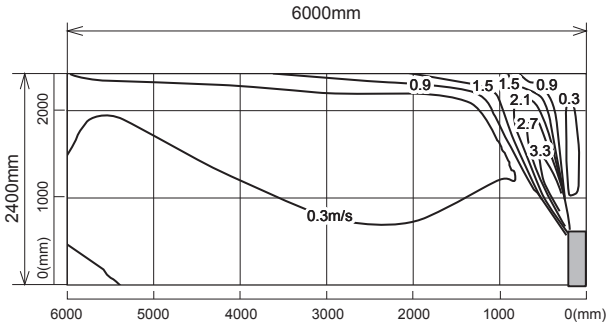
<Cooling mode>

Air volume: super high
Air direction: auto



<Heating mode>

Air volume: super high
Air direction: auto



Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load,obstacles,etc.

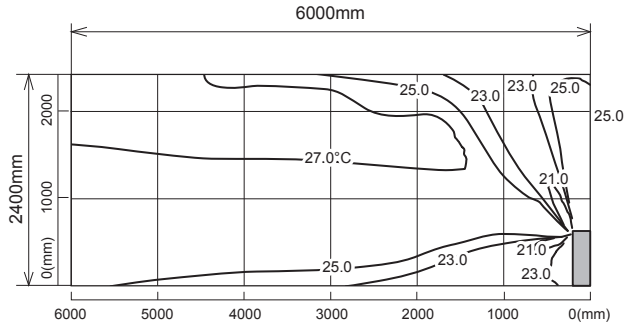
MFZ-KJ50VE2

Standard installation (Two-direction air flow)

Temperature distribution

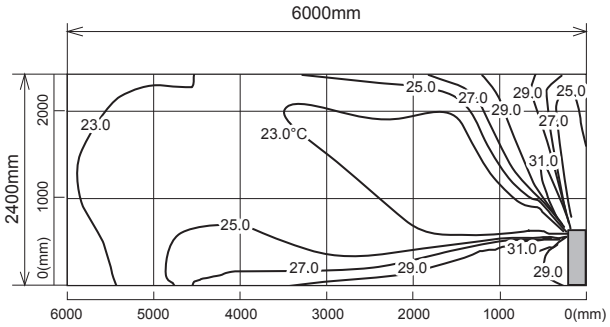
<Cooling mode>

Air volume: super high
Air direction: auto



<Heating mode>

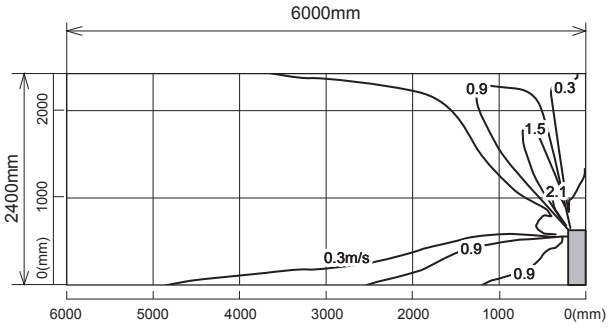
Air volume: super high
Air direction: auto



Airflow distribution

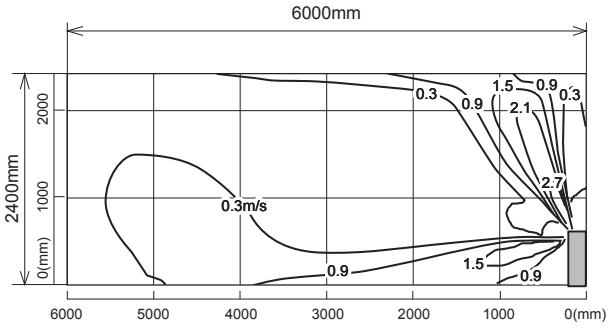
<Cooling mode>

Air volume: super high
Air direction: auto



<Heating mode>

Air volume: super high
Air direction: auto



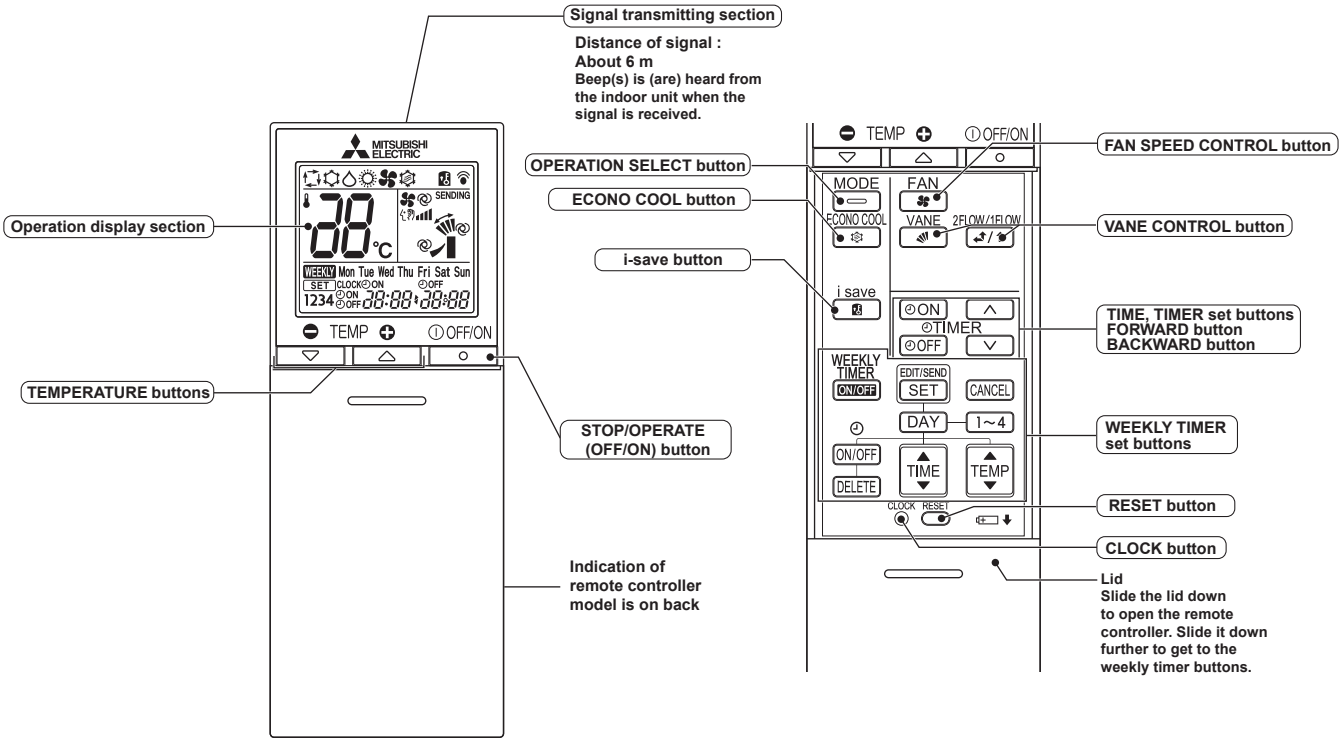
Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load,obstacles,etc.

C.2.9 OPERATION AND ACTUATOR CONTROL

C.2.9.1 MFZ-KJ･VE2 Series

MFZ-KJ25VE2 MFZ-KJ35VE2 MFZ-KJ50VE2

WIRELESS REMOTE CONTROLLER



NOTE: Last setting will be stored after the unit is turned OFF with the remote controller. Indoor unit receives the signal of the remote controller with beeps.

INDOOR UNIT DISPLAY SECTION

Operation Indicator lamp

The operation indicator at the right side of the indoor unit indicates the operation state.

•The following indication applies regardless of shape of the indication.

Indication	Operation state	Room temperature
☀ ☀	The unit is operating to reach the set temperature	About 2°C or more away from set temperature
☀ ○	The room temperature is approaching the set temperature	About 1 to 2°C from set temperature
☀ ☼	Standby mode (only during multi system operation)	—

☀ Lighted
☼ Blinking
○ Not lighted

a. COOL (☼) OPERATION

(1) Press STOP/OPERATE (OFF/ON) button.
OPERATION INDICATOR lamp of the indoor unit turns on with a beep tone.
(2) Select COOL mode with OPERATION SELECT button.
(3) Press TEMPERATURE buttons TEMP ⊖ or ⊕ button to select the desired temperature. The setting range is 16 - 31°C.

1. Coil frost prevention

The compressor operational frequency is controlled by the temperature of the indoor heat exchanger to prevent the coil from frosting.
When the temperature of indoor heat exchanger becomes too low, the coil frost prevention mode works.
The indoor fan operates at the set speed and the compressor stops. This mode continues until the temperature of indoor heat exchanger rises.

2. Low outside temperature operation

When the outside temperature is lower, low outside temperature operation starts, and the outdoor fan slows or stops.

3. Indoor fan speed control

When the thermostat turns OFF, the indoor fan operates at the setting fan speed.

b. DRY (△) OPERATION

(1) Press STOP/OPERATE (OFF/ON) button.
OPERATION INDICATOR lamp of the indoor unit turns on with a beep tone.
(2) Select DRY mode with OPERATION SELECT button.
(3) The set temperature is determined from the initial room temperature.

1. Coil frost prevention
Coil frost prevention works the same way as that in COOL mode. (a.1.)

2. Low outside temperature operation
Low outside temperature operation works the same way as that in COOL mode. (a.2.)

3. Indoor fan speed control
Indoor fan speed control works the same way as that in COOL mode. (a.3.)
However in AUTO setting, the fan speed changes.

c. FAN (✾) OPERATION

(1) Press STOP/OPERATE (OFF/ON) button.
OPERATION INDICATOR lamp of the indoor unit turns on with a beep tone.
(2) Select FAN mode with OPERATION SELECT button.
(3) Select the desired fan speed. When AUTO, it becomes Low.
Only indoor fan operates.
Outdoor unit does not operate.
NOTE: Temperature cannot be set during FAN mode.

d. HEAT (☼) OPERATION

(1) Press STOP/OPERATE (OFF/ON) button.
OPERATION INDICATOR lamp of the indoor unit turns on with a beep tone.
(2) Select HEAT mode with OPERATION SELECT button.
(3) Press TEMPERATURE buttons TEMP ⊖ or ⊕ button to select the desired temperature. The setting range is 16 - 31°C.

1. Cold air prevention control
When the compressor is not operating or is starting, and the temperature of indoor heat exchanger and/or the room temperature is low or when defrosting is being done, the indoor fan will stop or rotate in Very Low speed.

2. High pressure protection
The compressor operational frequency is controlled by the temperature of the indoor heat exchanger to prevent the condensing pressure from increasing excessively.
When the temperature of indoor heat exchanger becomes too high, the high pressure protection works.
This mode continues until the temperature of indoor heat exchanger falls.

3. Defrosting
Defrosting starts when the temperature of outdoor heat exchanger becomes too low.
The compressor stops once, the indoor/outdoor fans stop, the 4-way valve reverses, and the compressor re-starts.
This mode continues until the temperature of outdoor heat exchanger rises or the fixed time passes.

e. AUTO CHANGE OVER ··· AUTO MODE OPERATION

Once desired temperature is set, unit operation is switched automatically between COOL and HEAT operation.

1. Mode selection

(1) Initial mode
At first indoor unit operates only indoor fan with outdoor unit OFF for 3 minutes to detect present room temperature.
Following the conditions below, operation mode is selected.
① If the room temperature thermistor RT11 reads more than set temperature, COOL mode is selected.
② If the room temperature thermistor RT11 reads set temperature or less, HEAT mode is selected.
(2) Mode change
In case of the following conditions the operation mode is changed.
① COOL mode changes to HEAT mode when 15 minuets have passed with the room temperature 2 degrees below the set temperature.
② HEAT mode changes to COOL mode when 15 minuets have passed with the room temperature 2 degrees below the set temperature.

In the other cases than the above conditions, the present operation mode is continued.

NOTE 1: Mode selection is performed when multi standby (refer to **NOTE 2**) is released and the unit starts operation with ON-timer.
NOTE 2: If 2 or more indoor units are operating in multi system, there might be a case that the indoor unit, which is operating in AUTO (⇄), cannot change over the other operating mode (COOL ↔ HEAT) and becomes a state of standby.
NOTE 3: At the beginning of AUTO mode, the air flow direction and the fan speed are set to AUTO and the air outlet selection is set to 2 FLOW.

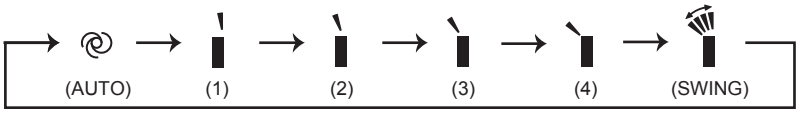
f. AUTO VANE OPERATION

1. Horizontal vane (Horizontal vane/Multi-flow vane)

(1) Vane motor drive

These models are equipped with a stepping motors for the horizontal vanes. The rotating direction, speed, and angle of the motor are controlled by pulse signals (approximately 12 V) transmitted from indoor microprocessor.

(2) The horizontal vane angle and mode change as follows by pressing VANE CONTROL (VANE) button.



(3) Positioning

The vane presses the vane stopper once to confirm the standard position and then moves to the set angle.
Confirming of standard position is performed in case of follows.

(a) The power supply turns on.
(b) The operation starts or finishes (including timer operation).
(c) The test run starts.
(d) The multi-standby starts or finishes.
(e) Every time the vane has swung more than the specified numbers of times.
(f) The horizontal vane automatically moves in certain intervals to determine its position, and then it returns to set position.
(g) The vane operates for the dew prevention.

(4) Air outlet selection

The air outlet(s) can be selected by pressing to VANE CONTROL (2FLOW/1FLOW) button.
When 2 FLOW is selected, air blows from the top and the front of the unit. When 1 FLOW is selected, air blows only from the top of the unit.



The multi-flow vane is automatically set to the appropriate position.
In HEAT, the multi-flow vane automatically changes its position according to the indoor fan speed.
Even if 2 FLOW is selected, air will blow only from the top of the unit in the following conditions:

- During COOL/DRY: The room temperature is close to set temperature.
  The air conditioner has operated for 0.5 to 1 hour.
- During HEAT: The air flow temperature is low. (During defrosting operation, start of operation, etc.)

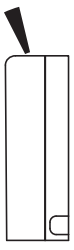
NOTE:
Movement at the start of the 2 FLOW operation

- COOL/DRY, HEAT: It takes 0.5 to 1 minute to start the 2 FLOW operation.
- HEAT: When cold air blows out from the air outlet, the multi-flow vane may stop moving for up to 10 minutes to make and blow out warm air.

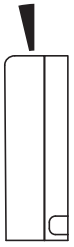
(5) VANE AUTO (@) mode

In VANE AUTO mode, the microprocessor automatically determines the vane angle to make the optimum room temperature distribution.

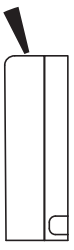
In COOL, DRY and FAN operation
2 FLOW: Vane angle is fixed to position 2.



1 FLOW: Vane angle is fixed to position 1.



In HEAT operation
2 FLOW: Vane angle is fixed to position 2.



1 FLOW: Vane angle is fixed to position 3.



(6) STOP (operation OFF) and ON TIMER standby
In the following cases, the horizontal vane returns to the closed position.
(a) When STOP/OPERATE (OFF/ON) button is pressed (POWER OFF).
(b) When the operation is stopped by the emergency operation.
(c) When ON TIMER is ON standby.

(7) Dew prevention
During COOL or DRY operation with the vane angle at Angle 3 or 4 when the compressor cumulative operation time exceeds 1 hour, the vane angle automatically changes to Angle 1 for dew prevention.

(8) SWING ( ) mode
By selecting SWING mode with VANE CONTROL button, the horizontal vanes swing vertically.
The remote controller displays " ". SWING mode is cancelled when VANE CONTROL button is pressed once again.

(9) Cold air prevention in HEAT operation
The horizontal vane position is set to Upward.

(10) ECONO COOL ( ) operation (ECONOmical operation)
When ECONO COOL button is pressed in COOL mode, set temperature is automatically set 2°C higher by the microprocessor. However, the temperature on the LCD screen on the remote controller is not changed. Also the horizontal vane swings in various cycle.
SWING operation makes you feel cooler than set temperature. So, even though the set temperature is higher, the air conditioner can keep comfort. As a result, energy can be saved.
To cancel this operation, select a different mode or press one of the following buttons in ECONO COOL operation: ECONO COOL, VANE CONTROL button.

g. TIMER OPERATION

1. How to set the time

(1) Check that the current time is set correctly.
NOTE: Timer operation will not work without setting the current time. Initially “0:00” blinks at the current time display of TIME MONITOR, so set the current time correctly with CLOCK button.

How to set the current time
(a) Press the CLOCK button.
(b) Press the TIME SET buttons (and) to set the current time.
• Each time FORWARD button ( ) is pressed, the set time increases by 1 minute, and each time BACKWARD button ( ) is pressed, the set time decreases by 1 minute.
• Pressing those buttons longer, the set time increases/decreases by 10 minutes.
(c) Press the CLOCK set button.

(2) Press STOP/OPERATE (OFF/ON) button to start the air conditioner.

(3) Set the time of timer.

ON timer setting
(a) Press ON TIMER button( ) during operation.
(b) Set the time of the timer using TIME SET buttons (and). ※

OFF timer setting
(a) Press OFF TIMER button ( ) during operation.
(b) Set the time of the timer using TIME SET buttons (and). ※

※ Each time FORWARD button ( ) is pressed, the set time increases by 10 minutes: each time BACKWARD button ( ) is pressed, the set time decreases by 10 minutes.

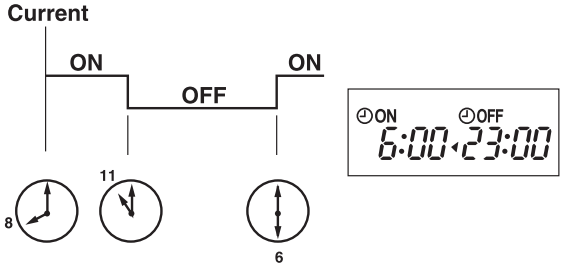
2. To release the timer

To release ON timer, press ON TIMER button ( ).
To release OFF timer, press OFF TIMER button( ).
TIMER is cancelled and the display of set time disappears.

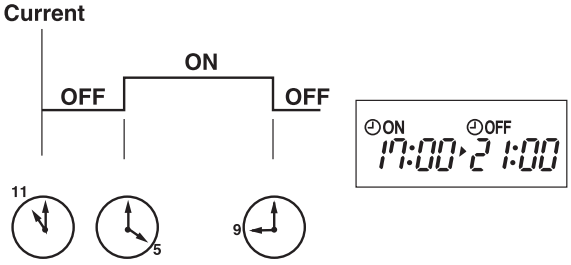
PROGRAM TIMER

• OFF timer and ON timer can be used in combination. The set time that is reached first will operate first.
• “◀” and “▶” display shows the order of OFF timer and ON timer operation.

(Example 1) The current time is 8:00 PM.
The unit turns off at 11:00 PM, and on at 6:00 AM.



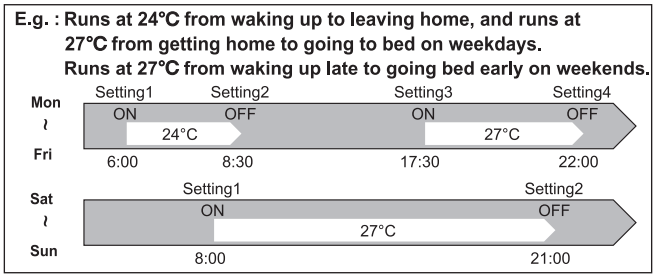
(Example 2) The current time is 11:00 AM.
The unit turns on at 5:00 PM, and off at 9:00 PM.



NOTE: If the main power is turned OFF or a power failure occurs while ON/OFF timer is active, the timer setting is cancelled. As these models are equipped with an auto restart function, the air conditioner starts operating with timer cancelled when power is restored.

h. WEEKLY TIMER OPERATION

- A maximum of 4 ON or OFF timers can be set for individual days of the week.
- A maximum of 28 ON or OFF timers can be set for a week.



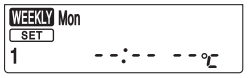
NOTE:

- The simple ON/OFF timer setting is available while the weekly timer is on. In this case, the ON/OFF timer has priority over the weekly timer; the weekly timer operation will start again after the simple ON/OFF timer is complete.
- When the weekly timer is set, temperature cannot be set to 10°C.
- The weekly timer operation and i-save operation cannot be used together.

1. How to set the weekly timer

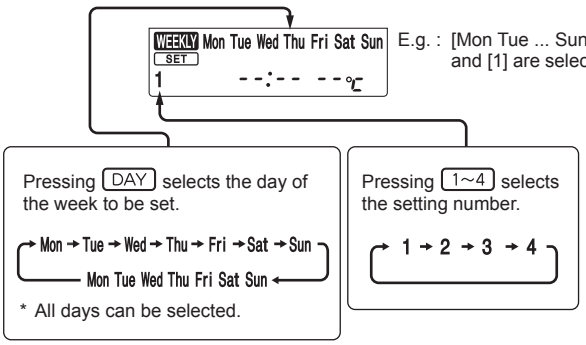
* Make sure that the current time and day are set correctly.

(1) Press EDIT/SEND SET button to enter the weekly timer setting mode.

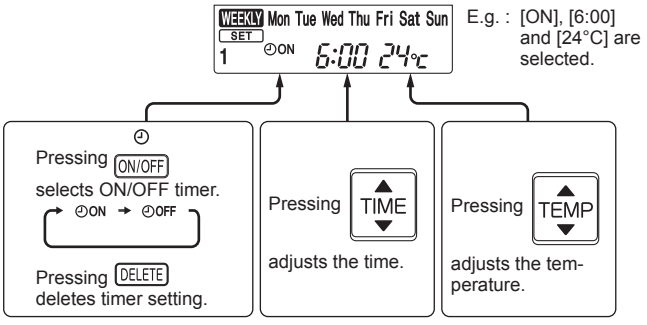


* SET blinks.

(2) Press DAY and 1~4 buttons to select setting day and number.



(3) Press ON/OFF , TIME , and TEMP buttons to set ON/OFF, time, and temperature.



* Hold down the button to change the time quickly.

* The temperature can be set between 16 °C and 31 °C at weekly timer.

Press DAY and 1~4 buttons to continue setting the timer for other days and/or numbers.

(4) Press EDIT/SEND SET button to complete and transmit the weekly timer setting.



* SET which was blinking goes out, and the current time will be displayed.

NOTE:

•Press EDIT/SEND SET button to transmit the setting information of weekly timer to the indoor unit. Point the remote controller toward the indoor unit for 3 seconds.

•When setting the timer for more than one day of the week or one number, EDIT/SEND SET button does not have to be pressed per each setting. Press EDIT/SEND SET button once after all the settings are complete. All the weekly timer settings will be saved.

•Press EDIT/SEND SET button to enter the weekly timer setting mode, and press and hold DELETE button for 5 seconds to erase all weekly timer settings. Point the remote controller toward the indoor unit.

(5) Press WEEKLY TIMER ON/OFF button to turn the weekly timer ON. (WEEKLY lights.)

•When the weekly timer is ON, the day of the week whose timer setting is complete, will light.

Press WEEKLY TIMER ON/OFF button again to turn the weekly timer OFF. (WEEKLY goes out.)

NOTE:

The saved settings will not be cleared when the weekly timer is turned OFF.

2. Checking weekly timer setting

(1) Press EDIT/SEND SET button to enter the weekly timer setting mode.

*SET blinks.

(2) Press DAY or 1~4 buttons to view the setting of the particular day or number.

(3) Press CANCEL button to exit the weekly timer setting.

i. i-save (♨) OPERATION

1. How to set i-save operation

(1) Press STOP/OPERATE (OFF/ON) button.

(2) Select COOL or HEAT mode.

(3) Press i-save button.

(4) Set the temperature, fan speed, airflow direction, and 2 FLOW/1 FLOW for i-save operation.

NOTE:

- i-save operation cannot be selected during DRY, FAN or AUTO mode operation.
- The setting range of HEAT mode i-save operation is 10°C and 16 - 31°C.
- 2 groups of setting can be saved. (One for COOL, one for HEAT)
- i-save operation and the weekly timer operation cannot be used together.

2. How to cancel operation

- Press i-save button again.
- i-save operation can also be cancelled by pressing OPERATION SELECT button to change the operation mode.

The same setting is selected from the next time by simply pressing i-save button.

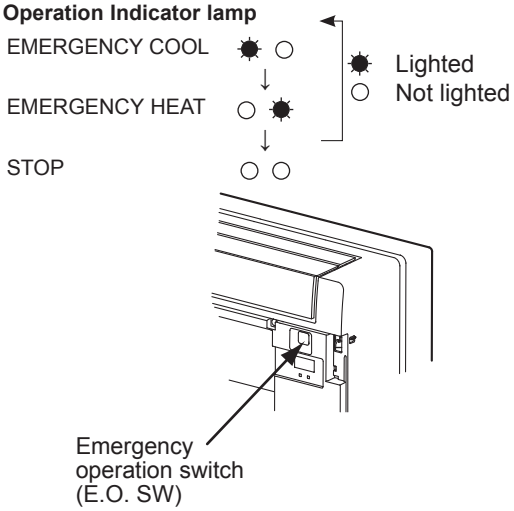
j. EMERGENCY/TEST OPERATION

In the case of test run operation or emergency operation, use EMERGENCY OPERATION switch on the right side of the indoor unit. Emergency operation is available when the remote controller is missing or has failed, or when the batteries in the remote controller are running down. The unit will start and OPERATION INDICATOR lamp will light up. The first 30 minutes of operation is the test run operation. This operation is for servicing. The indoor fan runs at High speed and the temperature control does not work. In COOL MODE, the air outlet selection is set to 2 FLOW during the test run operation.
After 30 minutes of test run operation, the system shifts to EMERGENCY COOL/HEAT MODE with a set temperature of 24°C. The fan speed shifts to Medium.
The coil frost prevention works even in the test run or the emergency operation.
In the test run or emergency operation, the horizontal vane operates in VANE AUTO (@) mode.
Emergency operation continues until EMERGENCY OPERATION switch is pressed once or twice or the unit receives any signal from the remote controller. In the latter case, normal operation will start.

NOTE: Do not press EMERGENCY OPERATION switch during normal operation.

Operation mode	COOL/HEAT
Set temperature	24°C
Fan speed	Medium
Horizontal vane	Auto
Air outlet	2 FLOW

The operation mode is indicated by the Operation Indicator lamp as following



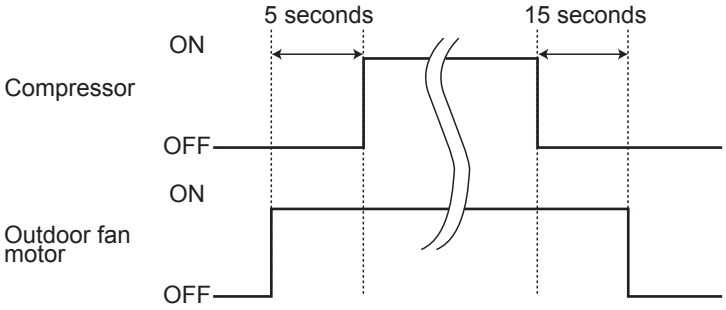
k. 3-MINUTE TIME DELAY OPERATION

When the system turns OFF, compressor will not restart for 3 minutes as 3-minute time delay function operates to protect compressor from overload.

I. ACTUATOR CONTROL

I-1. Outdoor fan motor control

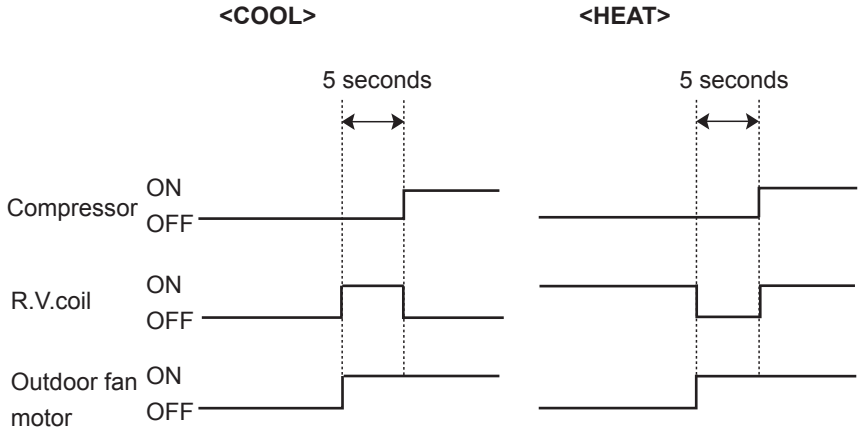
The fan motor turns ON/OFF, interlocking with the compressor.
[ON] The fan motor turns ON 5 seconds before the compressor starts up.
[OFF] The fan motor turns OFF 15 seconds after the compressor has stopped running.



I-2. R.V. Coil control

Heating ..... ON
Cooling ..... OFF
Dry ..... OFF

NOTE: The 4-way valve reverses for 5 seconds right before start-up of the compressor.

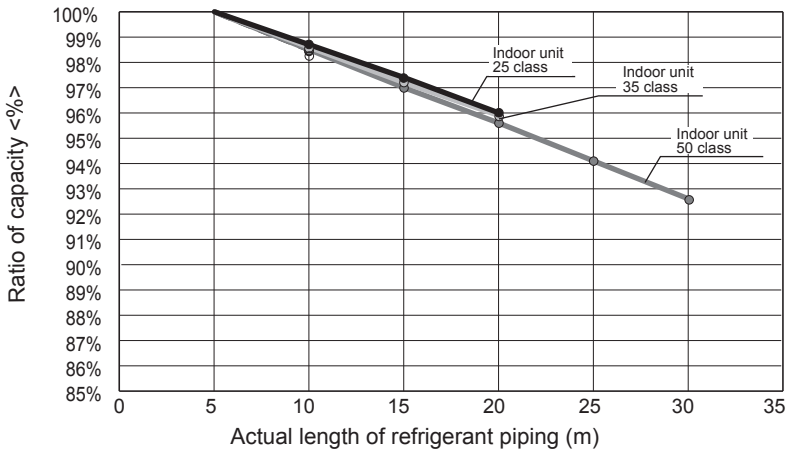


I-3. Relation between main sensor and actuator

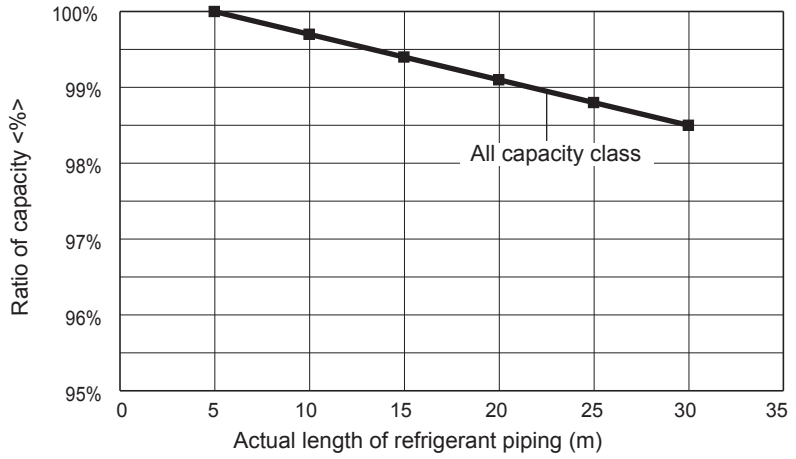
Sensor	Purpose	Actuator					
		Compressor	LEV	Outdoor fan motor	R.V.coil	Indoor fan motor	Defrost heater
Discharge temperature thermistor	Protection	○	○				
Indoor coil temperature thermistor	Cooling: Coil frost prevention	○					
	Heating: High pressure protection	○	○				
Defrost thermistor	Heating: Defrosting	○	○	○	○	○	
Fin temperature thermistor	Protection	○		○			
Ambient temperature thermistor	Cooling: Low ambient temperature operation	○	○	○			
	Heating: Defrosting (Heater)						○
Outdoor heat exchanger temperature thermistor	Cooling: Low ambient temperature operation	○	○	○			
	Cooling: High pressure protection	○	○	○			

C.2.10 CAPACITY CORRECTION RATIO CURVE FOR PIPING LENGTH

Correction ratio of capacity according to the length of piping (cooling)



Correction ratio of capacity according to the length of piping (heating)



The length intended for the capacity calculation, which counts the length of refrigerant piping and the number of bends, is called actual length.

Length of refrigerant piping (m) + (Number of bends × 0.3 m) = Actual length of refrigerant piping (m)

Back to Index page

C.3 CEILING CASSETTE

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C.3.1 SPECIFICATIONS

C.3.1.1 Inverter Heat Pump

Indoor Unit					MLZ-KA25VA	MLZ-KA35VA	MLZ-KA50VA
Outdoor Unit					for MXZ connection	for MXZ connection	for MXZ connection
Refrigerant					R410A(*1)	R410A(*1)	R410A(*1)
Power Supply	Source				Outdoor Power supply	Outdoor Power supply	Outdoor Power supply
	Outdoor (V/Phase/Hz)				230V/Single/50Hz	230V/Single/50Hz	230V/Single/50Hz
Cooling	Capacity	Rated		kW	-	-	-
		Min. - Max.		kW	-	-	-
	SHF				-	-	-
	Total Input	Rated		kW	-	-	-
	EER				-	-	-
		EEL Rank			-	-	-
	Design load			kW	-	-	-
	Annual electricity consumption (*2)			kWh/a	-	-	-
	SEER				-	-	-
		Energy efficiency class			-	-	-
Heating (Average Season)	Capacity	Rated		kW	-	-	-
		Min. - Max.		kW	-	-	-
	Total Input	Rated		kW	-	-	-
	COP				-	-	-
		EEL Rank			-	-	-
	Design load			kW	-	-	-
	Declared Capacity	at reference design temperature		kW	-	-	-
		at bivalent temperature		kW	-	-	-
		at operation limit temperature		kW	-	-	-
	Back up heating capacity			kW	-	-	-
	Annual electricity consumption (*2)			kWh/a	-	-	-
	SCOP				-	-	-
		Energy efficiency class			-	-	-
Operating Current (Max.)				A	-	-	-
Indoor Unit	Input	Rated		kW	0.04	0.04	0.04
	Operating Current (Max.)			A	0.4	0.4	0.4
	Dimensions	H x W x D		mm	175 x 1102 x 360	175 x 1102 x 360	175 x 1102 x 360
	Weight			kg	15	15	15
	Air Volume	Cooling		m^3/min.	7.2 - 8.0 - 8.8	7.3 - 8.4 - 9.4	8.3 - 9.8 - 11.4
	(Silent-Lo-Mid-Hi-SHi (*3) (Dry/Wet))	Heating		m^3/min.	7.0 - 8.2 - 9.2	7.7 - 8.8 - 9.9	8.8 - 10.3 - 11.8
	Sound Level (SPL)	Cooling		dB(A)	29 - 32 - 35	31 - 34 - 37	34 - 38 - 43
	(Silent-Lo-Mid-Hi-SHi (*3))	Heating		dB(A)	28 - 32 - 36	31 - 35 - 38	34 - 39 - 43
	Sound Level (PWL)	Cooling		dB(A)	52	54	60
Outdoor Unit	Dimensions	H x W x D		mm	-	-	-
	Weight			kg	-	-	-
	Air Volume	Cooling		m^3/min.	-	-	-
		Heating		m^3/min.	-	-	-
	Sound Level (SPL)	Cooling		dB(A)	-	-	-
		Heating		dB(A)	-	-	-
	Sound Level (PWL)	Cooling		dB(A)	-	-	-
	Operating Current (Max.)			A	-	-	-
	Breaker Size			A	-	-	-
Ext.Piping	Diameter	Liquid/Gas		mm	-	-	-
	Max.Length	Out-In		m	-	-	-
	Max.Height	Out-In		m	-	-	-
Guaranteed Operating Range (Outdoor)		Cooling		°C	-	-	-
		Heating		°C	-	-	-

(*1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO_2 , over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

(*2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

(*3) SHi: Super High.

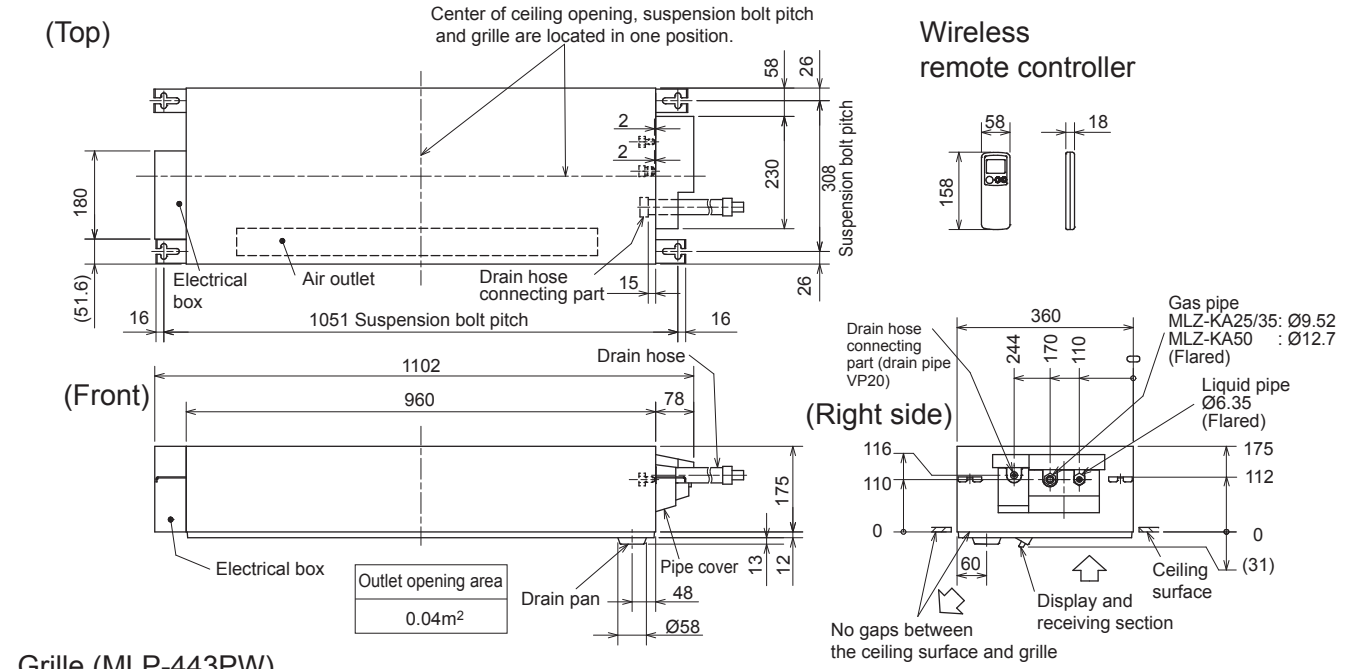
C.3.2 OUTLINES AND DIMENSIONS

C.3.2.1 Indoor Unit

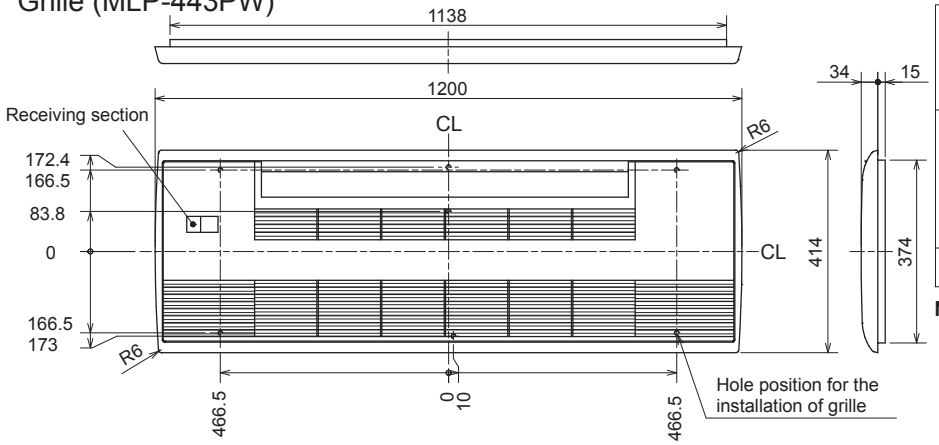
MLZ-KA25VA MLZ-KA35VA MLZ-KA50VA

Unit : mm

INDOOR UNIT

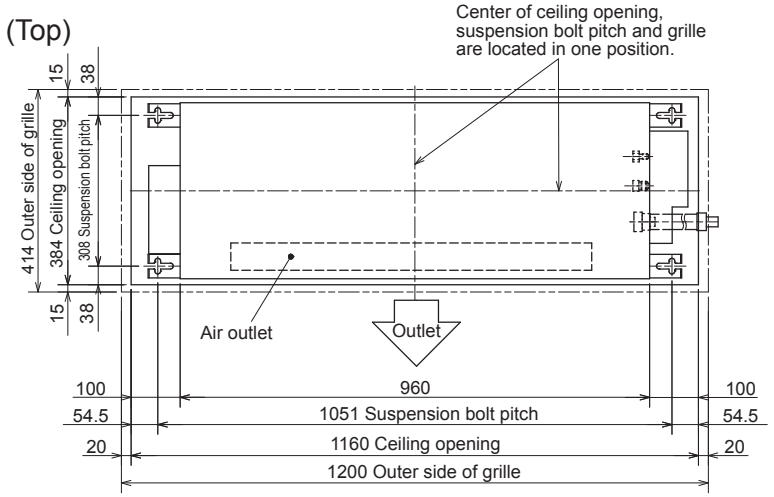


Grille (MLP-443PW)

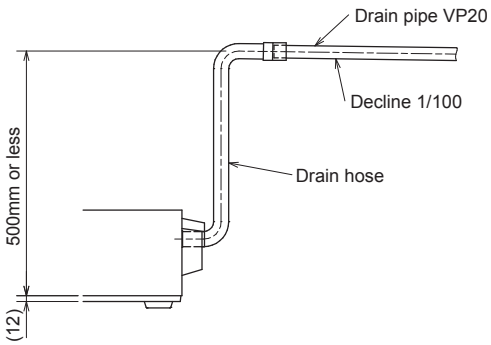


Refrigerant Pipe	Liquid	Ø6.35
	Gas	Ø9.52 (MLZ-KA25/35) Ø12.7 (MLZ-KA50)
Drain hose		Heat insulater Ø32 O.D Connection point Ø25 I.D Effective length 480
Connection drain pipe		VP20

NOTE: Drain hose can be used by cutting it.



How to connect drain pipe on indoor unit by lifting drain hose.
※Drain hose can be used by cutting it.

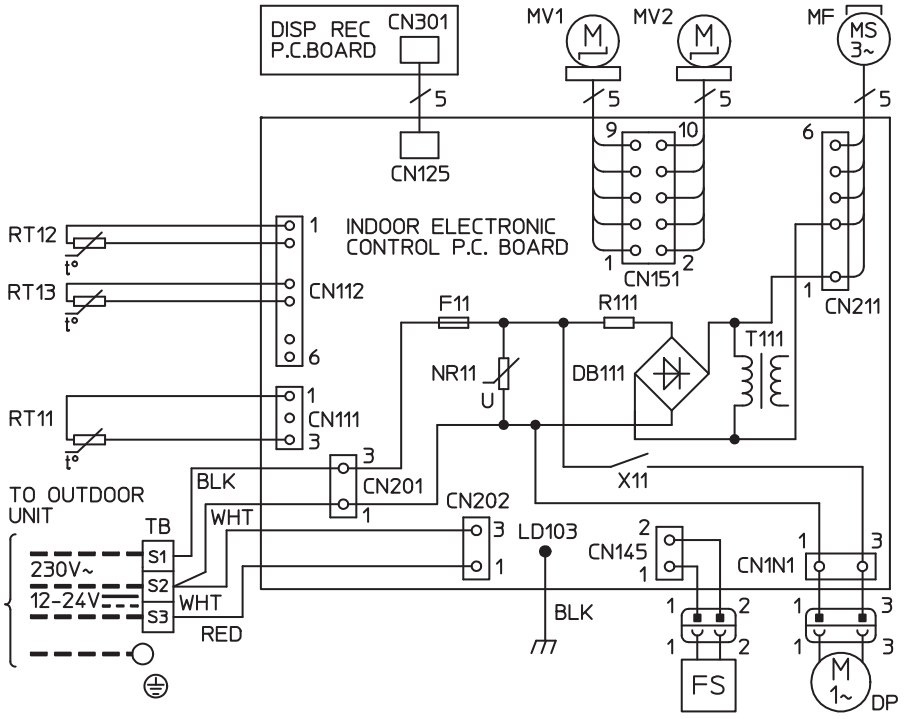


C.3.3 WIRING DIAGRAM

C.3.3.1 Indoor Unit

MLZ-KA25VA
MLZ-KA35VA

INDOOR UNIT

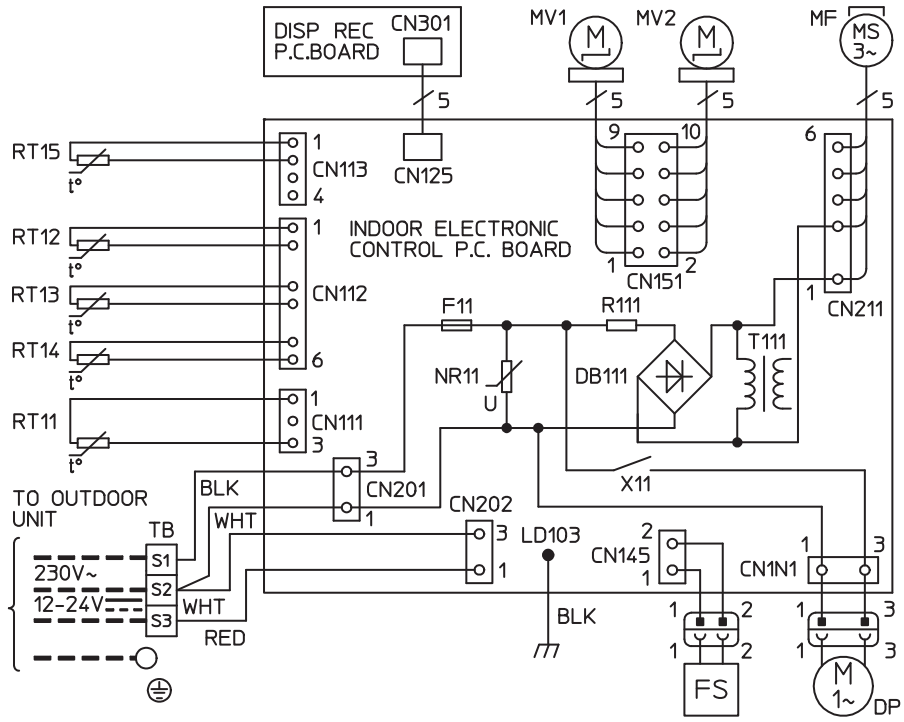


SYMBOL	NAME	SYMBOL	NAME
MF	FAN MOTOR	RT11	ROOM TEMP. THERMISTOR
MV1	HORIZONTAL VANE MOTOR	RT12	COIL TEMP. THERMISTOR (MAIN)
MV2	VERTICAL VANE MOTOR	RT13	COIL TEMP. THERMISTOR (SUB)
DP	DRAIN PUMP	DB111	DIODE STACK
FS	FLOAT SENSOR	NR11	VARISTOR
F11	FUSE (T3.15AL250V)	R111	RESISTOR
T111	TRANSFORMER		
X11	RELAY		

NOTES :
1. About the outdoor side electric wiring refer to the outdoor unit electric wiring diagram for servicing.
2. Use copper conductors only. (For field wiring)
3. Symbols below indicate.
   : Terminal block
   : Connector

MLZ-KA50VA

INDOOR UNIT



SYMBOL	NAME	SYMBOL	NAME
MF	FAN MOTOR	RT11	ROOM TEMP. THERMISTOR
MV1	HORIZONTAL VANE MOTOR	RT12	COIL TEMP. THERMISTOR (MAIN1)
MV2	VERTICAL VANE MOTOR	RT13	COIL TEMP. THERMISTOR (SUB)
DP	DRAIN PUMP	RT14	COIL TEMP. THERMISTOR (MAIN2)
FS	FLOAT SENSOR	RT15	COIL TEMP. THERMISTOR (MAIN3)
F11	FUSE (T3.15AL250V)	DB111	DIODE STACK
T111	TRANSFORMER	NR11	VARISTOR
X11	RELAY	R111	RESISTOR

NOTES :
1. About the outdoor side electric wiring refer to the outdoor unit electric wiring diagram for servicing.
2. Use copper conductors only. (For field wiring)
3. Symbols below indicate.
   : Terminal block
   : Connector

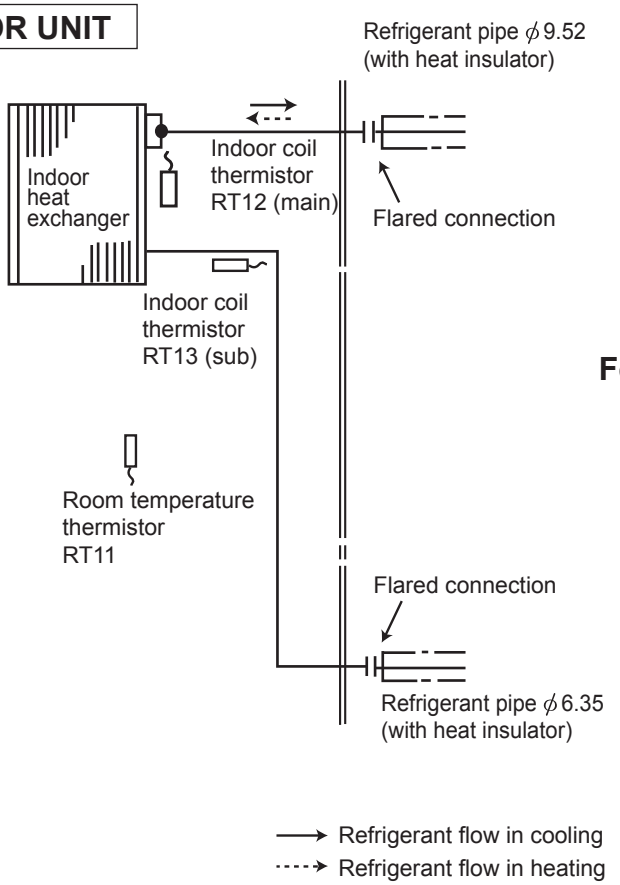
C.3.4 REFRIGERANT SYSTEM DIAGRAM

C.3.4.1 Inverter Heat Pump

Unit : mm

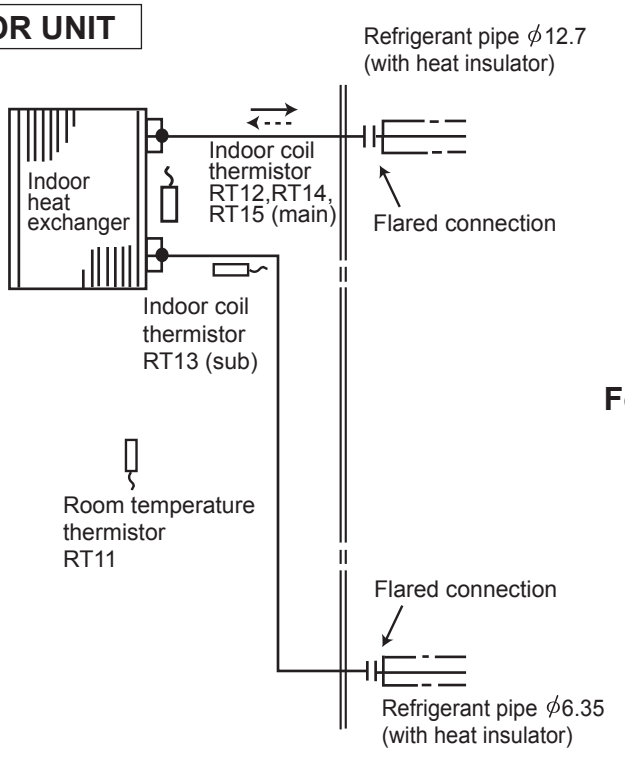
MLZ-KA25VA
MLZ-KA35VA

INDOOR UNIT



MLZ-KA50VA

INDOOR UNIT

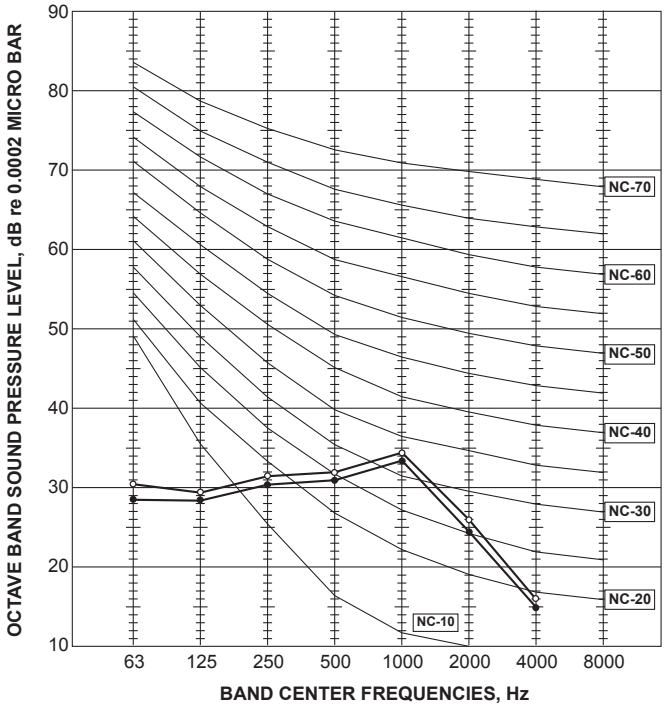


C.3.5 NOISE CRITERIA CURVES

C.3.5.1 Inverter Heat Pump

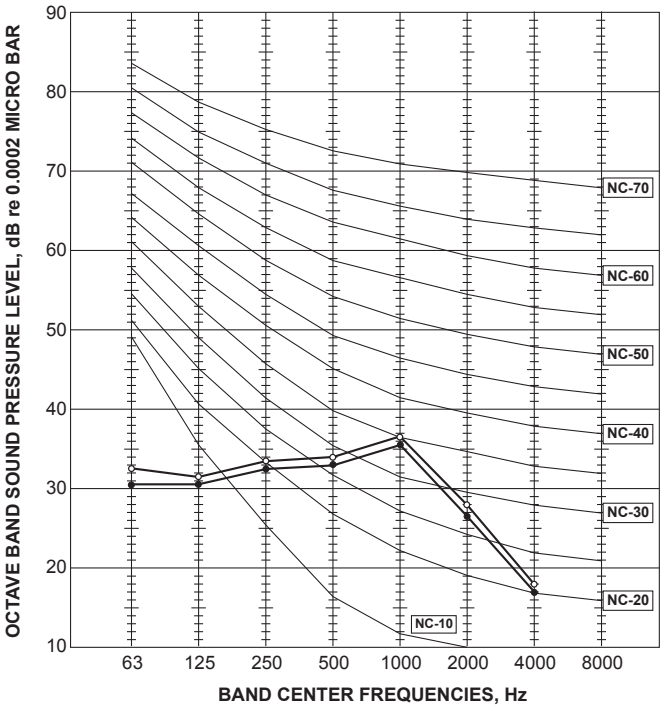
MLZ-KA25VA

FAN SPEED	FUNCTION	SPL(dB(A))	LINE
High	COOLING	35	●—●
	HEATING	36	○—○



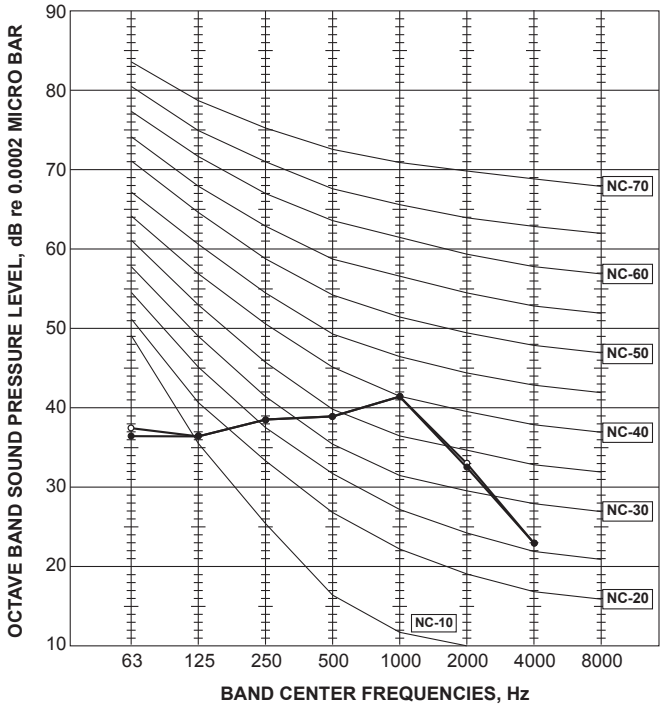
MLZ-KA35VA

FAN SPEED	FUNCTION	SPL(dB(A))	LINE
High	COOLING	37	●—●
	HEATING	38	○—○



MLZ-KA50VA

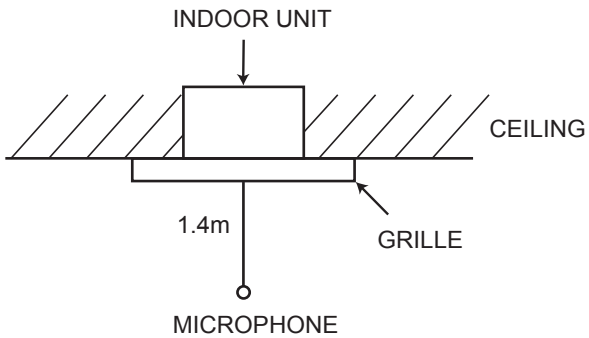
FAN SPEED	FUNCTION	SPL(dB(A))	LINE
High	COOLING	43	●—●
	HEATING	43	○—○



Test conditions

Cooling : Dry-bulb temperature 27 °C Wet-bulb temperature 19 °C

Heating : Dry-bulb temperature 20 °C



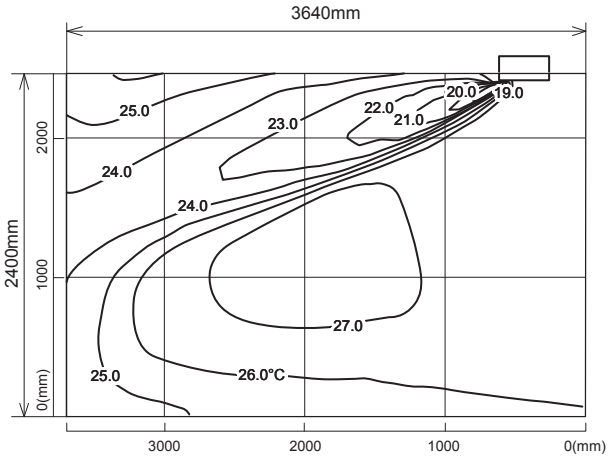
C.3.6 TEMPERATURE AND AIR FLOW DISTRIBUTIONS

MLZ-KA25VA

Temperature distribution

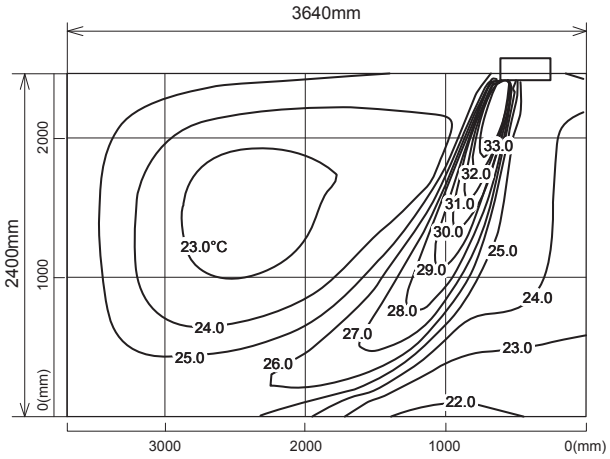
<Cooling mode>

Air volume: high
Air direction: auto (upward air flow)



<Heating mode>

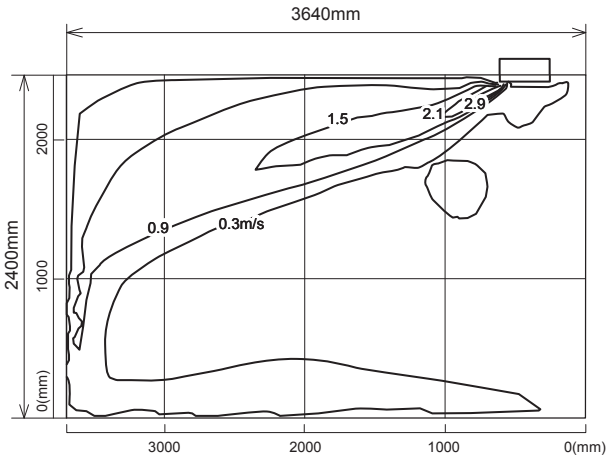
Air volume: high
Air direction: auto (downward air flow)



Airflow distribution

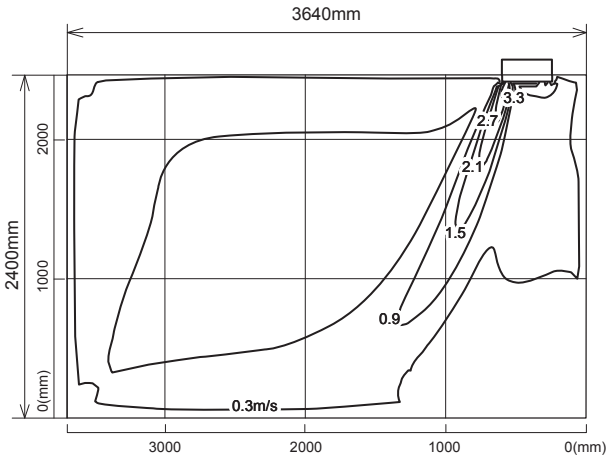
<Cooling mode>

Air volume: high
Air direction: auto (upward air flow)



<Heating mode>

Air volume: high
Air direction: auto (downward air flow)



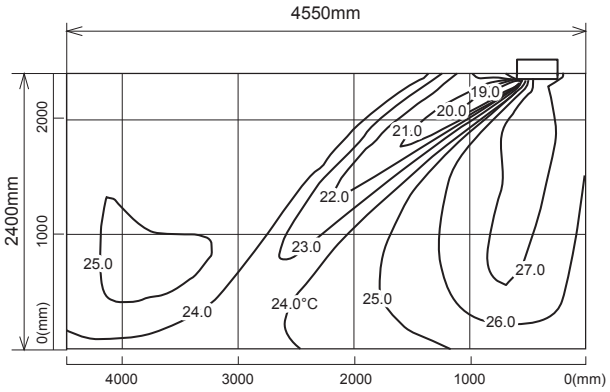
Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load,obstacles,etc.

MLZ-KA35VA

Temperature distribution

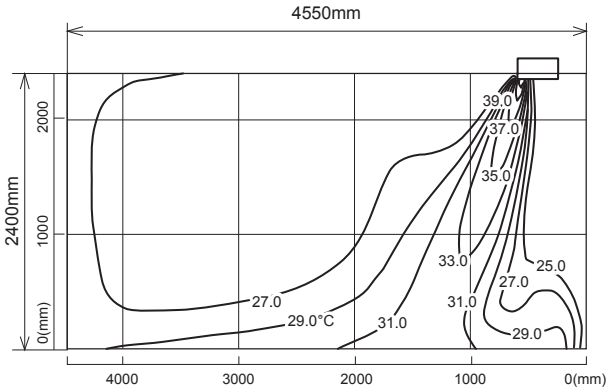
<Cooling mode>

Air volume: high
Air direction: auto (upward air flow)



<Heating mode>

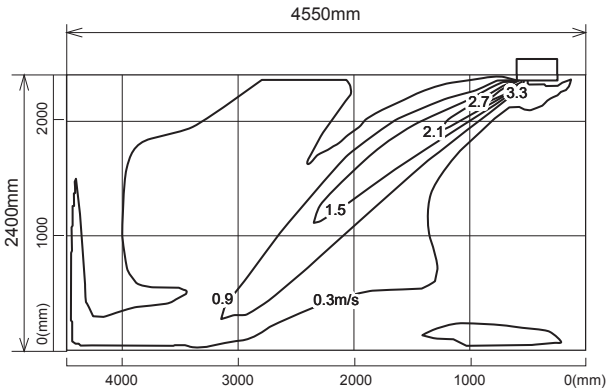
Air volume: high
Air direction: auto (downward air flow)



Airflow distribution

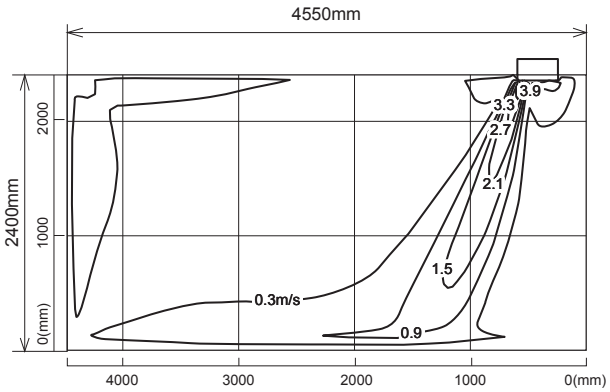
<Cooling mode>

Air volume: high
Air direction: auto (upward air flow)



<Heating mode>

Air volume: high
Air direction: auto (downward air flow)



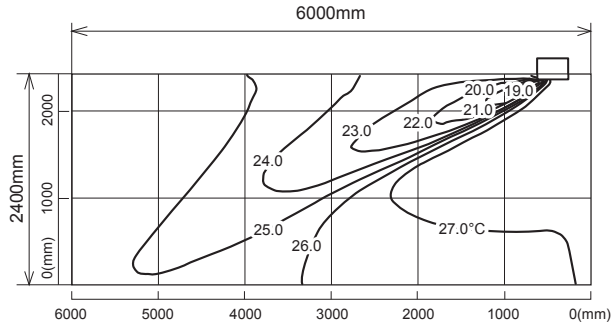
Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load,obstacles,etc.

MLZ-KA50VA

Temperature distribution

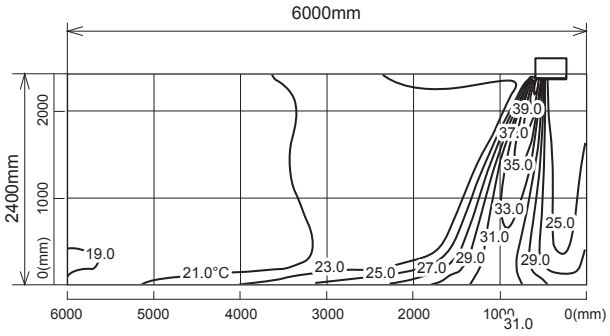
<Cooling mode>

Air volume: high
Air direction: auto (upward air flow)



<Heating mode>

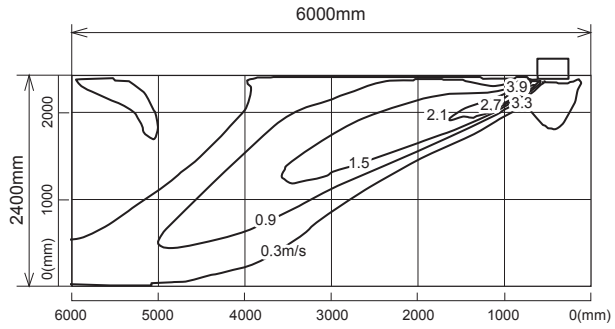
Air volume: high
Air direction: auto (downward air flow)



Airflow distribution

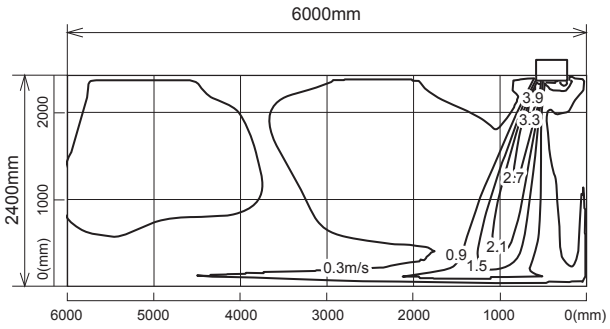
<Cooling mode>

Air volume: high
Air direction: auto (upward air flow)



<Heating mode>

Air volume: high
Air direction: auto (downward air flow)



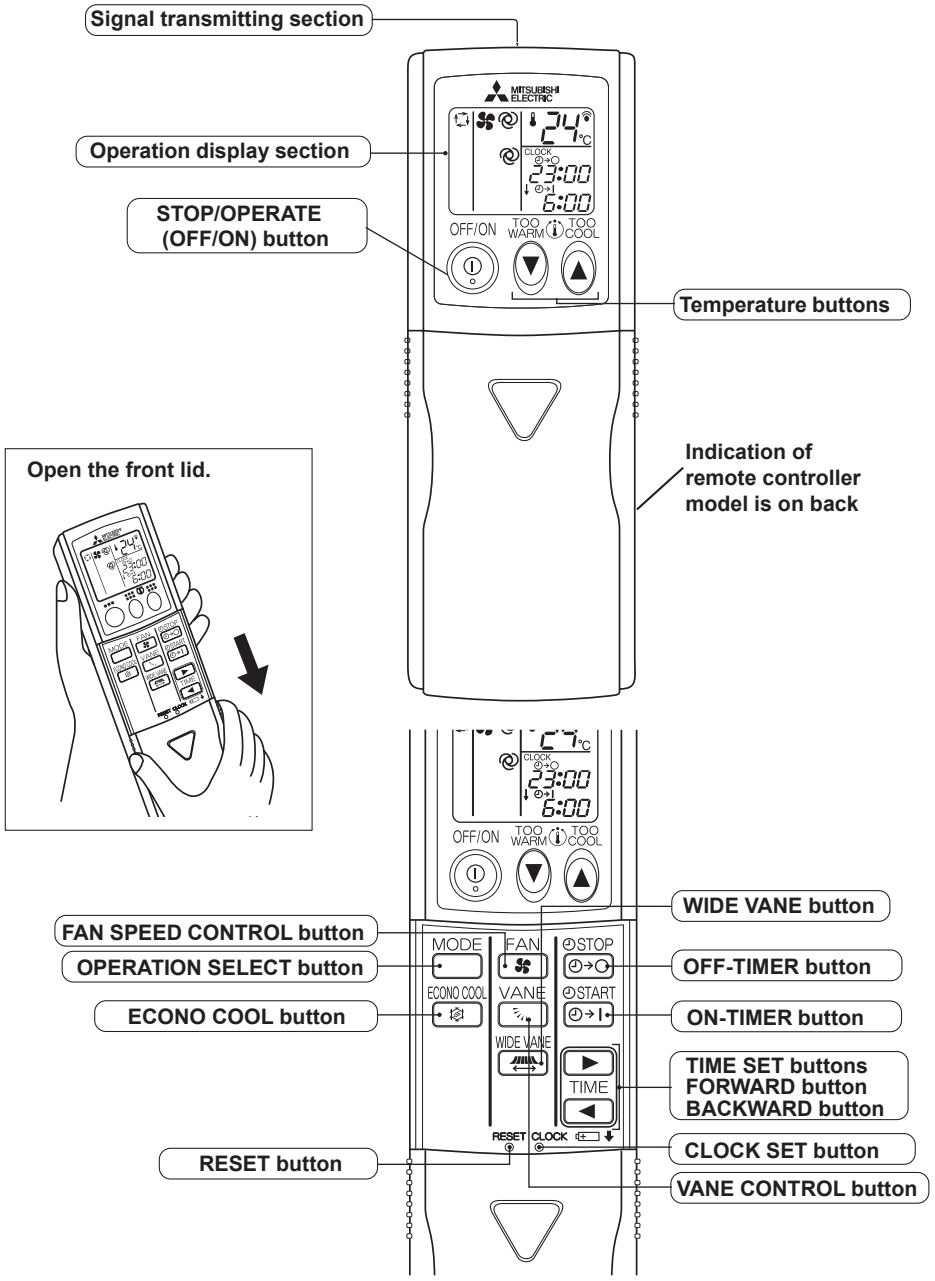
Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load,obstacles,etc.

C.3.7 OPERATION

C.3.7.1 MLZ-KA · VA Series

MLZ-KA25VA
MLZ-KA35VA
MLZ-KA50VA

WIRELESS REMOTE CONTROLLER



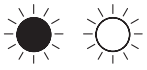
NOTE:

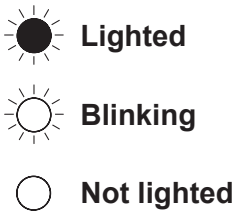
- The last setting will be stored after the unit is turned off with the remote controller.
- Indoor unit receives the signal of the remote controller with beeps.

INDOOR UNIT DISPLAY SECTION

Operation Indicator lamp

The operation indicator at the left side of the indoor unit indicates the operation state.

Indication	Operation state	Difference between target temperature and room temperature
	This shows that the air conditioner is operating to reach the target temperature. Please wait until the target temperature is obtained.	Approximate 2ºC or more
	This shows that the room temperature is approaching the target temperature.	Approximate 2ºC or less
	This shows a state of standby for operation. (For multi system air conditioner)	——



a. COOL (☼) OPERATION

(1) Press STOP/OPERATE (OFF/ON) button. OPERATION INDICATOR lamp of the indoor unit turns on with a beep tone.
(2) Select COOL mode with OPERATION SELECT button.
(3) Press TEMPERATURE buttons (TOO WARM or TOO COOL button) to select the desired temperature.
The setting range is 16 ~ 31°C.

1. Coil frost prevention

When the temperature of indoor heat exchanger becomes too low, the coil frost prevention mode works.
The indoor fan operates at the set speed and the compressor stops. This mode continues until the temperature of indoor heat exchanger rises.

b. DRY (△) OPERATION

(1) Press STOP/OPERATE (OFF/ON) button. OPERATION INDICATOR lamp of the indoor unit turns on with a beep tone.
(2) Select DRY mode with OPERATION SELECT button.
(3) The set temperature is determined from the initial room temperature.

1. Coil frost prevention

Coil frost prevention works the same way as that in COOL mode. (a.1.)

c. HEAT (☼) OPERATION

(1) Press STOP/OPERATE (OFF/ON) button. OPERATION INDICATOR lamp of the indoor unit turns on with a beep tone.
(2) Select HEAT mode with OPERATION SELECT button.
(3) Press TEMPERATURE buttons (TOO WARM or TOO COOL button) to select the desired temperature.
The setting range is 16 ~ 31°C.

1. Cold air prevention control

When the compressor is not operating or is starting, and the temperature of indoor heat exchanger and/or the room temperature is low or when defrosting is being done, the indoor fan will stop or rotate in Very Low speed.

d. AUTO CHANGE OVER ··· AUTO MODE OPERATION

Once desired temperature is set, unit operation is switched automatically between COOL and HEAT operation.

Mode selection

(1) Initial mode

When unit starts the operation with AUTO operation from off;
• If the room temperature is higher than the set temperature, operation starts in COOL mode.
• If the room temperature is equal to or lower than the set temperature, operation starts in HEAT mode.

(2) Mode change
COOL mode changes to HEAT mode when about 15 minutes have passed with the room temperature 2 degrees below the set temperature.
HEAT mode changes to COOL mode when about 15 minutes have passed with the room temperature 2 degrees above the set temperature.

NOTE:

If two or more indoor units are operating in multi system, there might be a case that the indoor unit, which is operating in ▭ (AUTO), cannot change over to the other operating mode (COOL ⟷ HEAT) and becomes a state of standby.

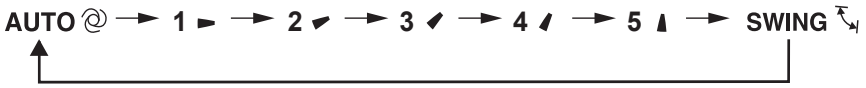
e. AUTO VANE OPERATION

1. Horizontal vane

(1) Vane motor drive

These models are equipped with a stepping motor for the horizontal vane. The rotating direction, speed, and angle of the motor are controlled by pulse signals (approximately 12V) transmitted from indoor microprocessor.

(2) The horizontal vane angle and mode change as follows by pressing VANE CONTROL button.



(3) Positioning

To confirm the standard position, the vane moves until it touches the vane stopper. Then the vane is set to the desired angle.

Confirming of standard position is performed in the following cases:

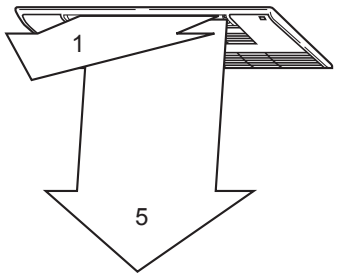
(a) When the power supply turns on.
(b) When the operation starts or finishes (including timer operation).
(c) When the test run starts.
(d) When multi-standby starts or finishes.
(e) When the swing operation finishes.

(4) VANE AUTO mode

In VANE AUTO mode, the microprocessor automatically determines the vane angle and operation to make the optimum room-temperature distribution.

(1) In COOL and DRY operation — Vane angle is fixed to Angle 1.

(2) In HEAT operation — Vane angle is fixed to Angle 5.



(5) STOP (operation OFF) and ON-TIMER standby

In the following cases, the horizontal vane returns to the closed position.

(a) When STOP/OPERATE (OFF/ON) button is pressed (POWER OFF).
(b) When the operation is stopped by the emergency operation.
(c) When ON-TIMER is ON standby.

(6) SWING MODE

By selecting SWING mode with VANE CONTROL button, the horizontal vane swings vertically. The remote controller displays "". SWING mode is cancelled when VANE CONTROL button is pressed once again.

(7) Cold air prevention in HEAT operation

The horizontal vane position is set to Upward.

(8) ECONO COOL operation (ECONOmical operation)

When ECONO COOL button is pressed in COOL mode, set temperature is automatically set 2°C higher.

Also the horizontal vane swings in various cycle.

SWING operation makes you feel cooler than set temperature. So, even though the set temperature is higher, the air conditioner can keep comfort. As a result, energy can be saved.

To cancel this operation, select a different mode or press one of the following buttons in ECONO COOL operation: ECONO COOL or VANE CONTROL button.

2. Vertical vane

(1) Press WIDE VANE button to change horizontal airflow direction.
•The vertical vane moves for about 30 seconds.
(After 30 seconds, the vertical vane moves to its original position. In this case, press WIDE VANE button again.)
(2) Press WIDE VANE button again to set horizontal airflow direction.
•The vertical vane stops and the airflow direction is set.
(3) Positioning
To confirm the standard position, the vane moves until it touches the vane stopper. Then the vane set to the desired angle.
Confirming of standard position is performed in the following cases:
(a) When STOP/OPERATE (OFF/ON) button is pressed (POWER ON).
(b) When SWING is started.

f. DRAIN PUMP/ FLOAT SENSOR CONTROL

1. Drain pump

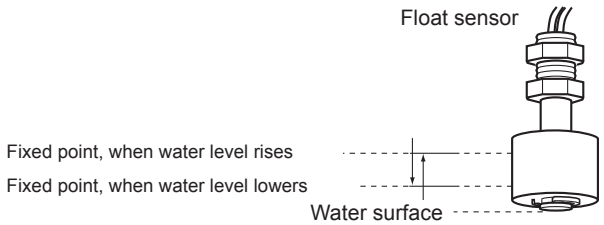
Operating condition:
1. During COOL, DRY, or emergency COOL operation
2. When float sensor detects water level above fixed point during:
(a) HEAT operation.
(b) emergency HEAT operation.
(c) standby when during multi system operation.
(d) standby when ON timer is set.
(e) operation STOP.

Drain pump operates in conditions 1 or 2.

Operation stop condition:
Condition other than 1 or 2 indicated above.

2. Float sensor

Float moves with the up and down of water surface inside the drain pan, and judges water level.
(Fixed point differs at raised and lowered water levels.)



g. TIMER OPERATION

1. How to set the time

(1) Press STOP/OPERATE (OFF/ON) button to start the air conditioner.
(2) Check that the current time is set correctly.
NOTE: Timer operation will not work without setting the current time. Initially “AM0:00” blinks at the current time display of TIME MONITOR, so set the current time correctly with CLOCK SET button.

How to set the current time

(1) Press the CLOCK set button.
(2) Press the TIME SET buttons (► and ◄) to set the current time.
• Each time FORWARD button (►) is pressed, the set time increases by 1 minute, and each time BACKWARD button (◄) is pressed, the set time decreases by 1 minute.
• Pressing those buttons longer increases/decreases the set time by 10 minutes.
Press the CLOCK set button.

ON timer setting

(1) Press ON-TIMER button (START) during operation.
(2) Set the time of the timer using TIME SET buttons (► and ◄) . ※

OFF timer setting

(1) Press OFF-TIMER button (STOP) during operation.
(2) Set the time of the timer using TIME SET buttons (► and ◄). ※

※ Each time FORWARD button (►) is pressed, the set time increases by 10 minutes; each time BACKWARD button (◄) is pressed, the set time decreases by 10 minutes.

2. Cancel

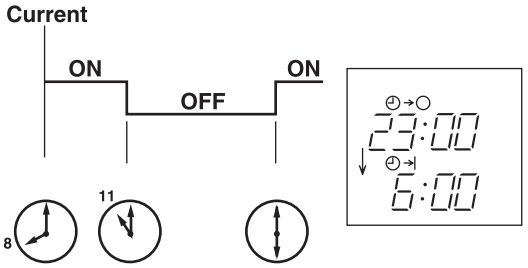
To cancel ON timer, press ON-TIMER button (START).
To cancel OFF timer, press OFF-TIMER button (STOP).

TIMER is cancelled and the display of set time disappears.

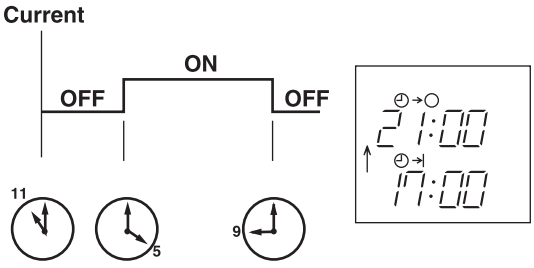
PROGRAM TIMER

• OFF timer and ON timer can be used in combination. The time that is reached first will operate first.
• " ↑ " and " ↓ " display show the order of OFF timer and ON timer operation.

(Example 1) The current time is 8:00 PM.
The unit turns OFF at 11:00 PM, and ON at 6:00 AM.



(Example 2) The current time is 11:00 AM.
The unit turns ON at 5:00 PM, and OFF at 9:00 PM.

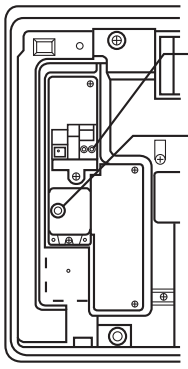


NOTE: If the main power is turned off or a power failure occurs while AUTO START/STOP timer is active, the timer setting is cancelled. As these models are equipped with an auto restart function, the air conditioner starts operating with timer cancelled when power is restored.

h. EMERGENCY/TEST OPERATION

In the case of test run operation or emergency operation, use EMERGENCY OPERATION switch on the front of the indoor unit. Emergency operation is available when the remote controller is missing or has failed, or the batteries in the remote controller are running down. The unit will start and OPERATION INDICATOR lamp will light up.
The first 30 minutes of operation is the test run operation. This operation is for servicing. The indoor fan runs at High speed and the temperature control does not work.
After 30 minutes of test run operation, the system shifts to EMERGENCY COOL/HEAT MODE with a set temperature of 24°C. The fan speed shifts to Med.
The coil frost prevention works even in the test run or the emergency operation, and defrosting too.
In the test run or emergency operation, the horizontal vane operates in VANE AUTO ( ) mode.
Emergency operation continues until EMERGENCY OPERATION switch is pressed once or twice or the unit receives any signal from the remote controller. In the latter case, normal operation will start.

NOTE: Do not press EMERGENCY OPERATION switch during normal operation.



Operation mode	COOL	HEAT
Set temperature	24ºC	24ºC
Fan speed	Medium	Medium
Horizontal vane	Auto	Auto

The operation mode is indicated by the Operation indicator lamp on the indoor unit as follows

Operation Indicator lamp

Press once <COOL> ☀ ○
Press again <HEAT> ○ ☀
Press once again <STOP> ○ ○

☀ Lighted
○ Not lighted

i. 3-MINUTE TIME DELAY OPERATION

When the system turns OFF, compressor will not restart for 3 minutes as 3-minute time delay function operates to protect compressor from overload.

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C.4 MULTI SYSTEM

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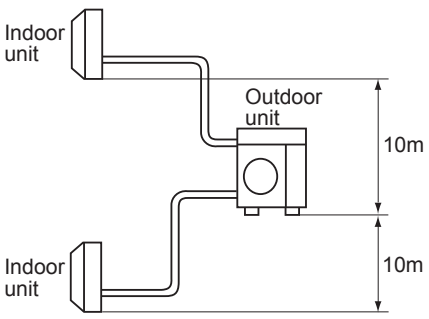
C.4.1 SPECIFICATIONS

C.4.1.1 Inverter Heat Pump

Indoor Unit				Refer to (*2)
Outdoor Unit				MXZ-2D33VA
Refrigerant				R410A (*1)
Power Supply	Source			Outdoor power supply
	Outdoor (V/Phase/Hz)			230V/Single/50Hz
Cooling	Capacity	Rated	kW	3.3
		Min. - Max.	kW	1.1 - 3.8
	Input (*2)	Rated	kW	0.90
	EER (*2)			3.67
		EEL Rank (*2)		A
	Annual Electricity Consumption (*2)		kWh/a	211
	SEER (*2)			5.5
		Energy efficiency class (*2)		A
Heating (Average Season)	Capacity	Rated	kW	4.0
		Min. - Max.	kW	1.0 - 4.1
	Input (*2)	Rated	kW	0.96
	COP (*2)			4.17
		EEL Rank (*2)		A
	Annual Electricity Consumption (*2)		kWh/a	926
	SCOP (*2)			4.1
		Energy efficiency class (*2)		A+
Operating Current (Max.)			A	10.0
Outdoor Unit	Dimensions	H x W x D	mm	550 x 800(+69) x 285(+59.5)
	Weight		kg	32
	Air Volume	Cooling	m^3/min	32.9
		Heating	m^3/min	33.7
	Sound Level (SPL)	Cooling	dB(A)	49
		Heating	dB(A)	50
	Sound Level (PWL)	Cooling	dB(A)	63
	Operating Current	Cooling	A	4.3
		Heating	A	4.6
	Breaker Size		A	10
Ext.Piping	Port diameter	Liquid/Gas	mm	6.35 x 2 / 9.52 x 2
	Total piping length (Max.)		m	20
	Each indoor unit piping length (Max.)		m	15
	Max. Height		m	10
	Chargeless length		m	20
Guaranteed Operating Range (Outdoor)		Cooling	°C	-10 ~ +46
		Heating	°C	-15 ~ +24

(*1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO_2 , over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

(*2) EER/COP, EEL rank, SEER/SCOP values and energy efficiency class are measured when connected to the indoor units listed below.
MXZ-2D33VA → MSZ-SF15VA + MSZ-EF18VE

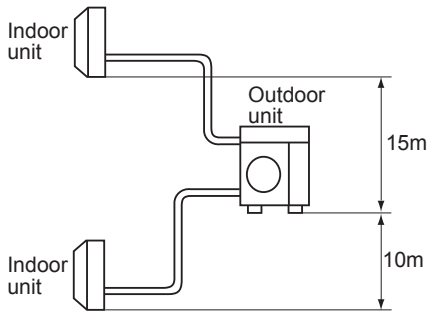


Indoor Unit					Refer to (*3)		
Outdoor Unit					MXZ-2D42VA2	MXZ-2D53VA2	MXZ-2D53VAH2
Refrigerant					R410A (*1)		
Power Supply	Source				Outdoor power supply		
	Outdoor (V/Phase/Hz)				230V/Single/50Hz		
Cooling	Capacity	Rated		kW	4.2	5.3	5.3
		Min. - Max.		kW	1.1 - 4.4	1.1 - 5.6	1.1 - 5.6
	Input (*3)	Rated		kW	1.00	1.54	1.54
	EER (*3)				4.20	3.44	3.44
		EEL Rank (*3)			A	A	A
	Annual Electricity Consumption (*3)			kWh/a	216	262	262
	SEER (*3)				6.8	7.1	7.1
		Energy efficiency class (*3)			A++	A++	A++
Heating (Average Season)	Capacity	Rated		kW	4.5	6.4	6.4
		Min. - Max.		kW	1.0 - 4.8	1.0 - 7.0	1.0 - 7.0
	Input (*3)	Rated		kW	0.93	1.70	1.70
	COP (*3)				4.84	3.76	3.76
		EEL Rank (*3)			A	A	A
	Annual Electricity Consumption (*3)			kWh/a	1065	1507	1546
	SCOP (*3)				4.2	4.2	4.1
		Energy efficiency class (*3)			A+	A+	A+
Operating Current (Max.)				A	12.2	12.2	12.2
Outdoor Unit	Dimensions	H x W x D		mm	550 x 800(+69) x 285(+59.5)		
	Weight			kg	37	37	38
	Air Volume	Cooling		m^3/min	27.7	32.9	32.9
		Heating		m^3/min	33.3	33.3	33.3
	Sound Level (SPL)	Cooling		dB(A)	46	50	50
		Heating		dB(A)	51	53	53
	Sound Level (PWL)	Cooling		dB(A)	60	64	64
	Operating Current	Cooling		A	4.5	6.9	6.9
		Heating		A	4.2	7.6	7.6
	Breaker Size			A	15	15	15
Ext.Piping	Port diameter	Liquid/Gas		mm	6.35 x 2 / 9.52 x 2		
	Total piping length (Max.)			m	30		
	Each indoor unit piping length (Max.)			m	20		
	Max. Height			m	15(10)(*2)		
	Chargeless length			m	20		
Guaranteed Operating Range (Outdoor)		Cooling		°C	-10 ~ +46		
		Heating		°C	-15 ~ +24		-20 ~ +24

(*1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO_2 , over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

(*2) If the outdoor unit is installed higher than the indoor unit, max. height is reduced to 10 m.

(*3) EER/COP, EEL rank, SEER/SCOP values and energy efficiency class are measured when connected to the indoor units listed below.
MXZ-2D42VA2 → MSZ-EF18VE + MSZ-EF25VE
MXZ-2D53VA(H)2 → MSZ-EF18VE + MSZ-EF35VE

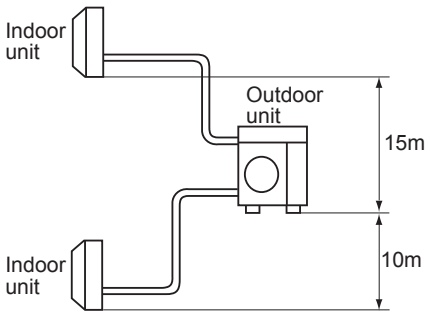


Indoor Unit					Refer to (*3)		
Outdoor Unit					MXZ-3E54VA	MXZ-3E68VA	MXZ-4E72VA
Refrigerant					R410A (*1)		
Power Supply	Source				Outdoor power supply		
	Outdoor (V/Phase/Hz)				230V/Single/50Hz		
Cooling	Capacity		Rated	kW	5.4	6.8	7.2
			Min. - Max.	kW	2.9 - 6.8	2.9 - 8.4	3.7 - 8.8
	Input (*3)		Rated	kW	1.35	2.19	2.25
	EER (*3)				4.00	3.11	3.20
			EEL Rank (*3)		A	B	B
	Annual Electricity Consumption (*3)			kWh/a	295	425	443
	SEER (*3)				6.4	5.6	5.7
			Energy efficiency class (*3)		A++	A+	A+
Heating (Average Season)	Capacity		Rated	kW	7.0	8.6	8.6
			Min. - Max.	kW	2.6 - 9.0	2.6 - 10.6	3.4 - 10.7
	Input (*3)		Rated	kW	1.59	2.38	2.28
	COP (*3)				4.40	3.61	3.77
			EEL Rank (*3)		A	A	A
	Annual Electricity Consumption (*3)			kWh/a	1751	2466	2516
	SCOP (*3)				4.0	3.9	3.9
			Energy efficiency class (*3)		A+	A	A
Operating Current (Max.)				A	18.0	18.0	18.0
Outdoor Unit	Dimensions		H x W x D	mm	710 x 840(+30) x 330(+66)		
	Weight			kg	58	58	59
	Air Volume		Cooling	m^3/min	42.1	42.1	42.1
			Heating	m^3/min	43.0	43.0	43.0
	Sound Level (SPL)		Cooling	dB(A)	50	50	50
			Heating	dB(A)	53	53	53
	Sound Level (PWL)		Cooling	dB(A)	64	64	64
	Operating Current		Cooling	A	5.9	9.6	9.9
			Heating	A	7.0	10.5	10.0
	Breaker Size			A	25	25	25
Ext.Piping	Port diameter		Liquid/Gas	mm	6.35 x 3 / 9.52 x 3	6.35 x 3 / 9.52 x 3	6.35 x 4 / 12.7 x 1+9.52 x 3
	Total piping length (Max.)			m	50	60	60
	Each indoor unit piping length (Max.)			m	25	25	25
	Max. Height			m	15(10) (*2)	15(10) (*2)	15(10) (*2)
	Chargeless length			m	40	40	40
Guaranteed Operating Range (Outdoor)			Cooling	°C	-10 ~ +46		
			Heating	°C	-15 ~ +24		

(*1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO_2 , over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

(*2) If the outdoor unit is installed higher than the indoor unit, max. height is reduced to 10 m.

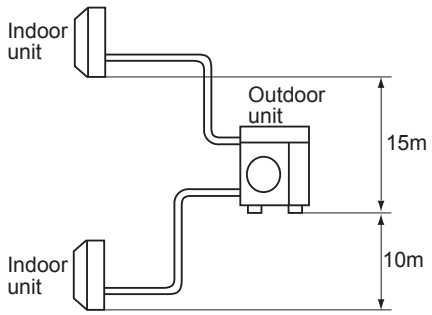
(*3) EER/COP, EEL rank, SEER/SCOP values and energy efficiency class are measured when connected to the indoor units listed below.
MXZ-3E54VA → MSZ-EF18VE + MSZ-EF18VE + MSZ-EF18VE
MXZ-3E68VA → MSZ-EF18VE + MSZ-EF25VE + MSZ-EF25VE
MXZ-4E72VA → MSZ-EF18VE + MSZ-EF18VE + MSZ-EF18VE + MSZ-EF18VE



Indoor Unit					Refer to (*3)	
Outdoor Unit					MXZ-4E83VA	MXZ-5E102VA
Refrigerant					R410A (*1)	
Power Supply	Source				Outdoor power supply	
	Outdoor (V/Phase/Hz)				230V/Single/50Hz	
Cooling	Capacity	Rated		kW	8.3	10.2
		Min. - Max.		kW	3.7 - 9.2	3.9 - 11.0
	Input (*3)	Rated		kW	2.44	3.15
	EER (*3)				3.40	3.24
		EEL Rank (*3)			A	A
	Annual Electricity Consumption (*3)			kWh/a	460	537
	SEER (*3)				6.3	6.6
		Energy efficiency class (*3)			A++	A++
Heating (Average Season)	Capacity	Rated		kW	9.3	10.5
		Min. - Max.		kW	3.4 - 11.6	4.1 - 14.0
	Input (*3)	Rated		kW	2.00	2.34
	COP (*3)				4.65	4.49
		EEL Rank (*3)			A	A
	Annual Electricity Consumption (*3)			kWh/a	2884	2958
	SCOP (*3)				4.2	4.2
		Energy efficiency class (*3)			A+	A+
Operating Current (Max.)				A	21.4	21.4
Outdoor Unit	Dimensions	H x W x D		mm	796 x 950 x 330	
	Weight			kg	76	77
	Air Volume	Cooling		m^3/min	55.6	65.1
		Heating		m^3/min	55.6	68.0
	Sound Level (SPL)	Cooling		dB(A)	49	53
		Heating		dB(A)	51	56
	Sound Level (PWL)	Cooling		dB(A)	61	65
	Operating Current	Cooling		A	10.7	13.8
		Heating		A	8.8	10.3
	Breaker Size			A	25	25
Ext.Piping	Port diameter	Liquid/Gas		mm	6.35 x 4 / 12.7 x 1+9.52 x 3	6.35 x 5 / 12.7 x 1+9.52 x 4
	Total piping length (Max.)			m	70	80
	Each indoor unit piping length (Max.)			m	25	25
	Max. Height			m	15(10) (*2)	15(10) (*2)
	Chargeless length			m	25	0
Guaranteed Operating Range (Outdoor)		Cooling		°C	-10 ~ +46	
		Heating		°C	-15 ~ +24	

(*1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO_2 , over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

(*2) If the outdoor unit is installed higher than the indoor unit, max height is reduced to 10 m.

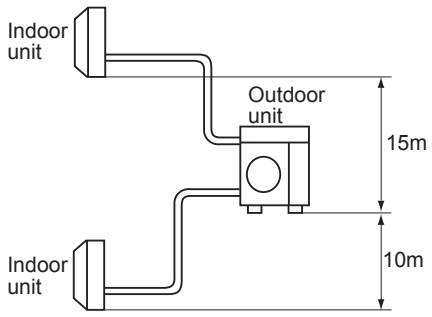


(*3) EER/COP, EEL rank, SEER/SCOP values and energy efficiency class are measured when connected to the indoor units listed below.
MXZ-4E83VA → MSZ-EF18VE + MSZ-EF18VE + MSZ-EF22VE + MSZ-EF25VE
MXZ-5E102VA → MSZ-EF18VE + MSZ-EF18VE + MSZ-EF22VE + MSZ-EF22VE + MSZ-EF22VE

Indoor Unit					Refer to (*3)
Outdoor Unit					MXZ-6D122VA
Refrigerant					R410A (*1)
Power Supply	Source				Outdoor power supply
	Outdoor (V/Phase/Hz)				230V/Single/50Hz
Cooling	Capacity	Rated		kW	12.2
		Min. - Max.		kW	3.5 - 13.5
	Input (*3)	Rated		kW	3.66
	EER (*3)				3.33
		EEL Rank (*3)			A
	SEER				-
		Energy efficiency class			-
Heating	Capacity	Rated		kW	14.0
		Min. - Max.		kW	3.5 - 16.5
	Input (*3)	Rated		kW	3.31
	COP (*3)				4.23
		EEL Rank (*3)			A
	SCOP				-
		Energy efficiency class			-
Operating Current (Max.)				A	29.8
Outdoor Unit	Dimensions	H x W x D		mm	1048 x 950 x 330
	Weight			kg	88
	Air Volume	Cooling		m^3/min	63.0
		Heating		m^3/min	77.0
	Sound Level (SPL)	Cooling		dB(A)	55
		Heating		dB(A)	57
	Sound Level (PWL)	Cooling		dB(A)	69
	Operating Current	Cooling		A	16.1
		Heating		A	14.5
	Breaker Size			A	32
Ext.Piping	Port diameter	Liquid/Gas		mm	6.35 x 6 / 12.7 x 1 + 9.52 x 5
	Total piping length (Max.)			m	80
	Each indoor unit piping length (Max.)			m	25
	Max. Height			m	15(10) (*2)
	Chargeless length			m	30
Guaranteed Operating Range (Outdoor)		Cooling		°C	-10 ~ +46
		Heating		°C	-15 ~ +24

(*1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO_2 , over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

(*2) If the outdoor unit is installed higher than the indoor unit, max. height is reduced to 10 m.



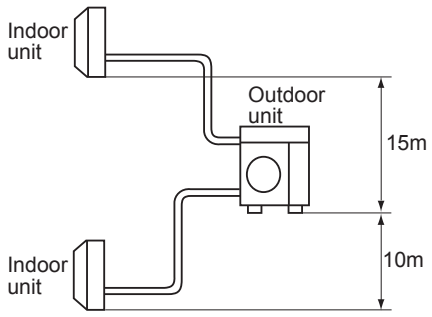
(*3) EER/COP, EEL rank, SEER/SCOP values and energy efficiency class are measured when connected to the indoor units listed below.
MXZ-6D122VA → MSZ-EF25VE + MSZ-EF25VE + MSZ-EF25VE + MSZ-EF25VE + MSZ-EF25VE

Indoor Unit					Refer to (*3)	
Outdoor Unit					MXZ-2DM40VA	MXZ-3DM50VA
Refrigerant					R410A (*1)	
Power Supply	Source				Outdoor power supply	
	Outdoor (V/Phase/Hz)				230V/Single/50Hz	
Cooling	Capacity	Rated		kW	4.0	5.0
		Min. - Max.		kW	1.1-4.3	2.7-6.5
	Input (*3)	Rated		kW	1.05	1.13
	EER (*3)				3.81	4.42
		EEL Rank (*3)			A	A
	Annual Electricity Consumption (*3)			kWh/a	226	283
	SEER (*3)				6.1	6.1
		Energy efficiency class (*3)			A++	A++
Heating (Average Season)	Capacity	Rated		kW	4.3	6.0
		Min. - Max.		kW	1.0-4.7	2.4-7.5
	Input (*3)	Rated		kW	1.16	1.31
	COP (*3)				3.71	4.58
		EEL Rank (*3)			A	A
	Annual Electricity Consumption (*3)			kWh/a	1105	1455
	SCOP (*3)				4.0	3.8
		Energy efficiency class (*3)			A+	A
Operating Current (Max.)				A	12.2	18.0
Outdoor Unit	Dimensions	H x W x D		mm	550 x 800(+69) x 285(+59.5)	710 x 840(+30) x 330(+66)
	Weight			kg	32	57
	Air Volume	Cooling		m^3/min	29.2	37.5
		Heating		m^3/min	31.9	39.6
	Sound Level (SPL)	Cooling		dB(A)	48	50
		Heating		dB(A)	52	53
	Sound Level (PWL)	Cooling		dB(A)	63	64
	Operating Current	Cooling		A	5.1	5.0
		Heating		A	5.6	5.8
	Breaker Size			A	15	25
Ext.Piping	Port diameter	Liquid/Gas		mm	6.35 x 2 / 9.52 x 2	6.35 x 3 / 9.52 x 3
	Total piping length (Max.)			m	30	50
	Each indoor unit piping length (Max.)			m	20	25
	Max. Height			m	15(10) (*2)	15(10) (*2)
	Chargeless length			m	20	40
Guaranteed Operating Range (Outdoor)		Cooling		°C	-10 ~ +46	
		Heating		°C	-15 ~ +24	

(*1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO_2 , over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

(*2) If the outdoor unit is installed higher than the indoor unit, max. height is reduced to 10 m.

(*3) EER/COP, EEL rank, SEER/SCOP values and energy efficiency class are measured when connected to the indoor units listed below.when connected to the indoor units listed below.
MXZ-2DM40VA → MSZ-DM25VA + MSZ-DM25VA
MXZ-3DM50VA → MSZ-DM25VA + MSZ-DM25VA + MSZ-DM25VA

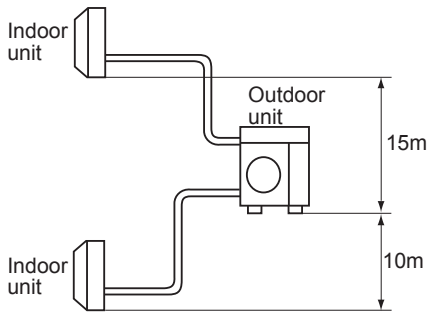


Indoor Unit				Refer to (*3)	
Outdoor Unit				MXZ-2E53VAHZ	MXZ-4E83VAHZ
Refrigerant				R410A (*1)	
Power Supply	Source			Outdoor power supply	
	Outdoor (V/Phase/Hz)			230V/Single/50Hz	
Cooling	Capacity	Rated	kW	5.3	8.3
		Min. - Max.	kW	1.1 - 6.0	3.7 - 9.2
	Input (*3)	Rated	kW	1.29	2.25
	Annual Electricity Consumption (*3)		kWh/a	282	447
	SEER (*3)			6.5	6.5
		Energy efficiency class (*3)		A++	A++
Heating (Average Season)	Capacity	Rated (7°C)	kW	6.4	9.0
		Rated (-7°C)	kW	6.4	9.0
		Rated (-15°C)	kW	6.4	9.0
		Min. - Max.	kW	1.0 - 7.0	3.4 - 11.6
	Input (*3)	Rated	kW	1.36	1.90
	Annual Electricity Consumption (*3)		kWh/a	2165	3446
	SCOP (*3)			4.1	4.1
		Energy efficiency class (*3)		A+	A+
Max. Operating Current (Indoor+Outdoor)			A	15.6	28.0
Outdoor Unit	Dimensions	H x W x D	mm	796 x 950 x 330	1048 x 950 x 330
	Weight		kg	61	87
	Air Volume	Cooling	m^3/min	47.0	63.0
		Heating	m^3/min	47.0	77.0
	Sound Level (SPL)	Cooling	dB(A)	45	53
		Heating	dB(A)	47	57
	Sound Level (PWL)	Cooling	dB(A)	55	66
	Operating Current	Cooling	A	5.7	9.9
		Heating	A	6.0	8.3
	Breaker Size		A	16	30
Ext.Piping	Port diameter	Liquid/Gas	mm	6.35 x 2 / 9.52 x 2	6.35 x 4 / 12.7 x 1 + 9.52 x 3
	Total piping length (Max.)		m	30	70
	Each indoor unit piping length (Max.)		m	20	25
	Max. Height		m	15(10) (*2)	15(10) (*2)
	Chargeless length		m	20	25
Guaranteed Operating Range (Outdoor)		Cooling	°C	-10 ~ +46	
		Heating	°C	-25 ~ +24	

(*1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO_2 , over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

(*2) If the outdoor unit is installed higher than the indoor unit, max. height is reduced to 10 m.

(*3) EER/COP, EEL rank, SEER/SCOP values and energy efficiency class are measured when connected to the indoor units listed below.
MXZ-2E53VAHZ → MSZ-EF18VE + MSZ-EF35VE
MXZ-4E83VAHZ → MSZ-EF18VE + MSZ-EF18VE + MSZ-EF22VE + MSZ-EF25VE



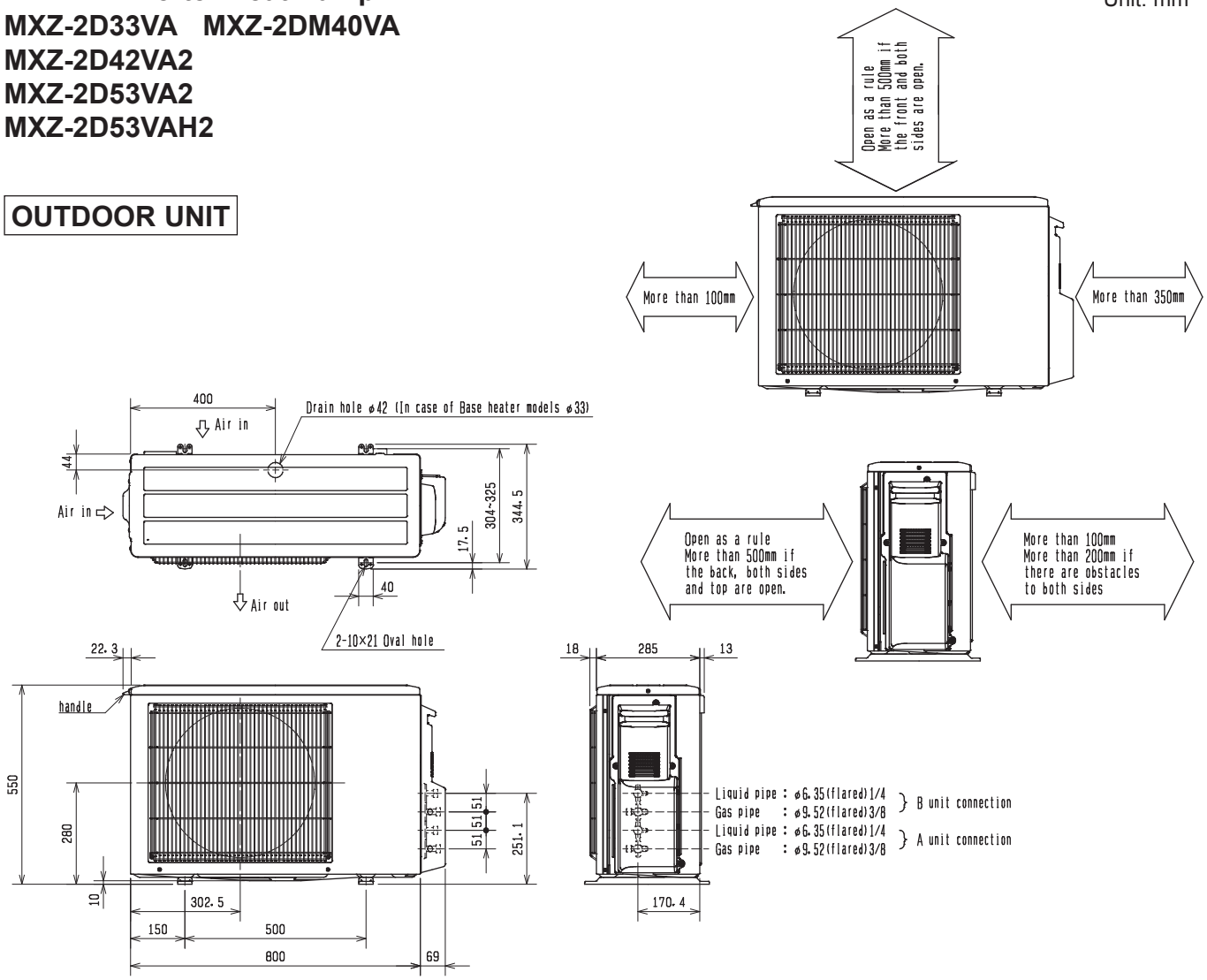
C.4.2 OUTLINES AND DIMENSIONS

C.4.2.1 Inverter Heat Pump

MXZ-2D33VA MXZ-2DM40VA
MXZ-2D42VA2
MXZ-2D53VA2
MXZ-2D53VAH2

Unit: mm

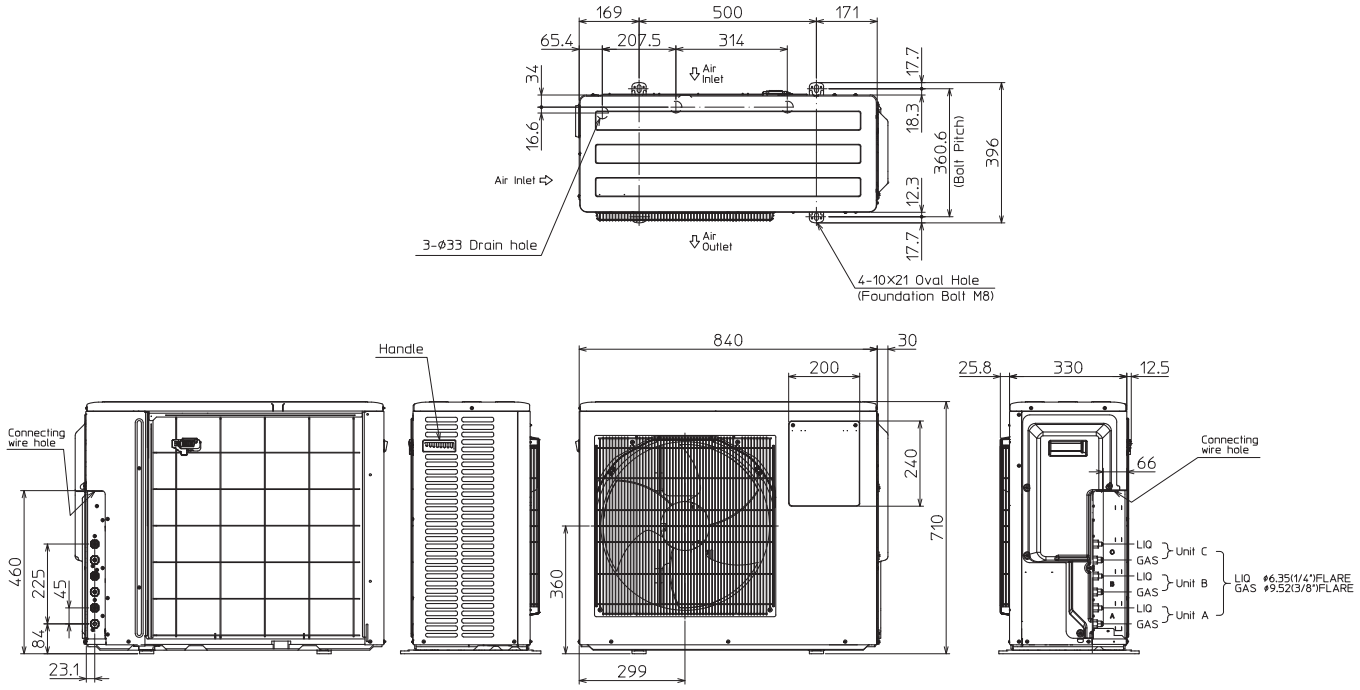
OUTDOOR UNIT



MXZ-3E54VA MXZ-3E68VA

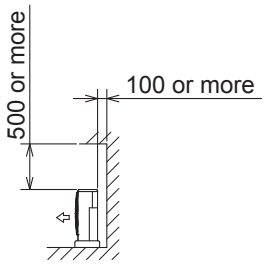
OUTDOOR UNIT

Unit: mm

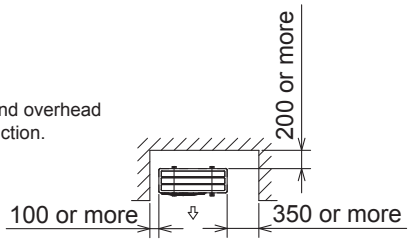


1.Installation space

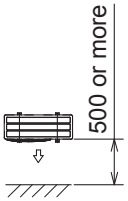
Note : Leave front and both sides free of obstruction.



Note : Leave front and overhead free of obstruction.



Note : Leave rear, overhead and both sides free of obstruction.



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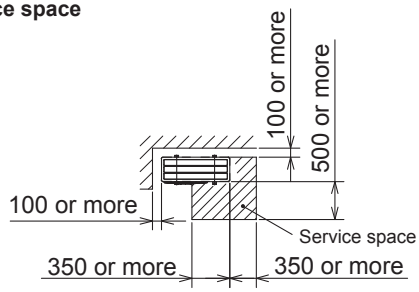
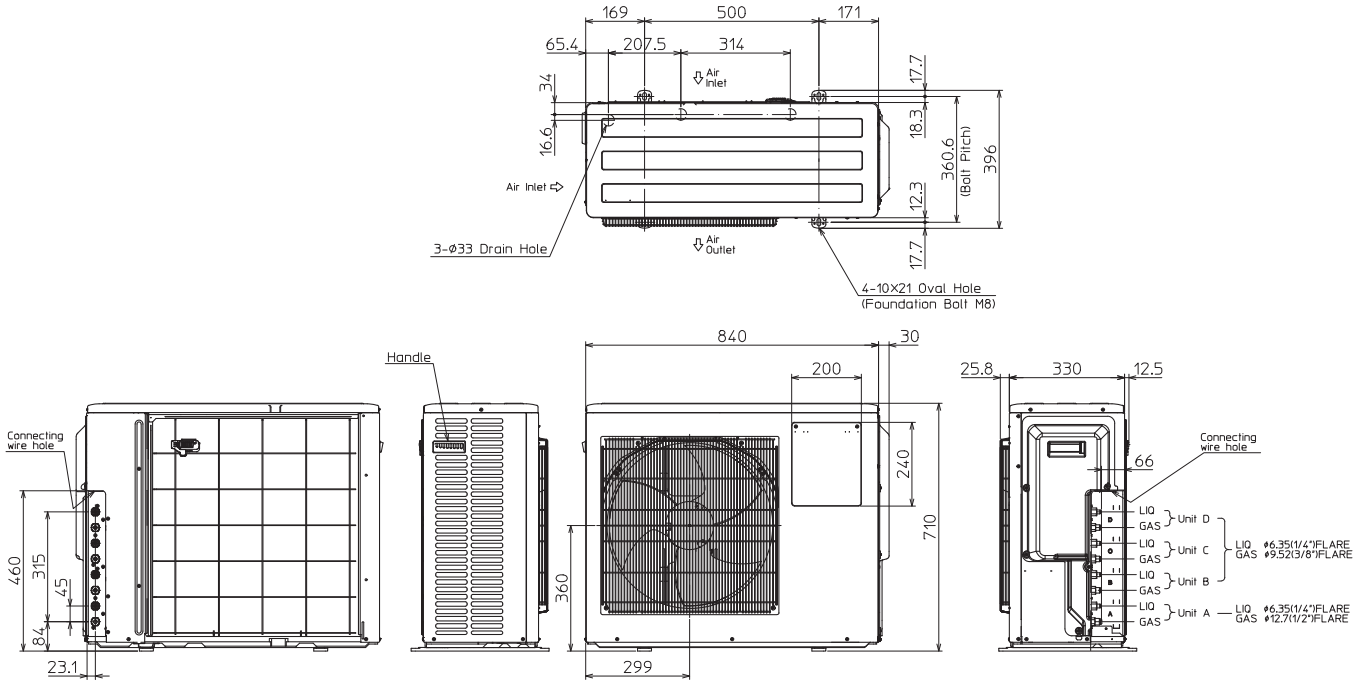


MXZ-4E72VA

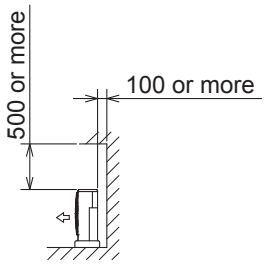
OUTDOOR UNIT

Unit: mm

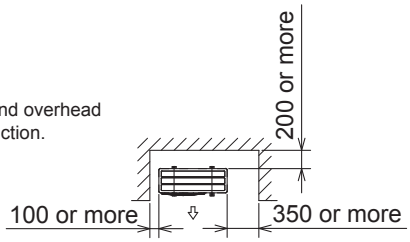


1.Installation space

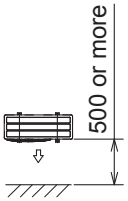
Note : Leave front and both sides free of obstruction.



Note : Leave front and overhead free of obstruction.



Note : Leave rear, overhead and both sides free of obstruction.



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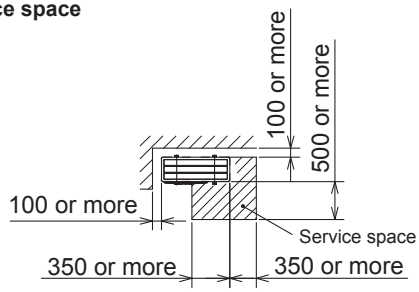
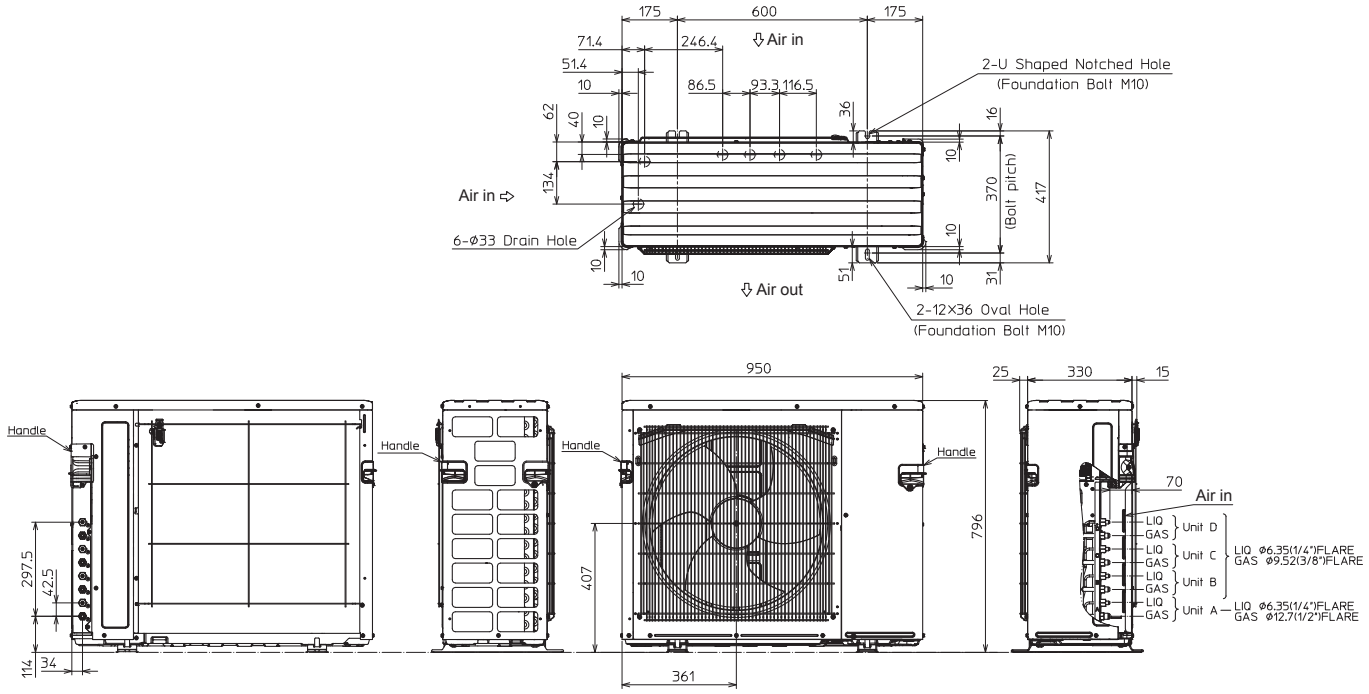


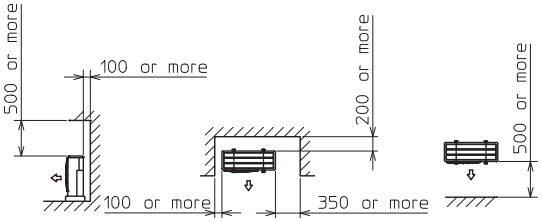
MXZ-4E83VA

OUTDOOR UNIT

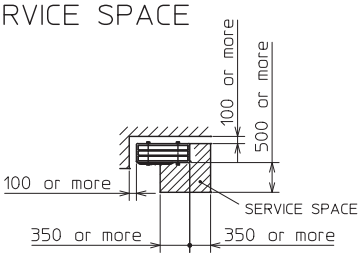
Unit: mm



1.FREE SPACE



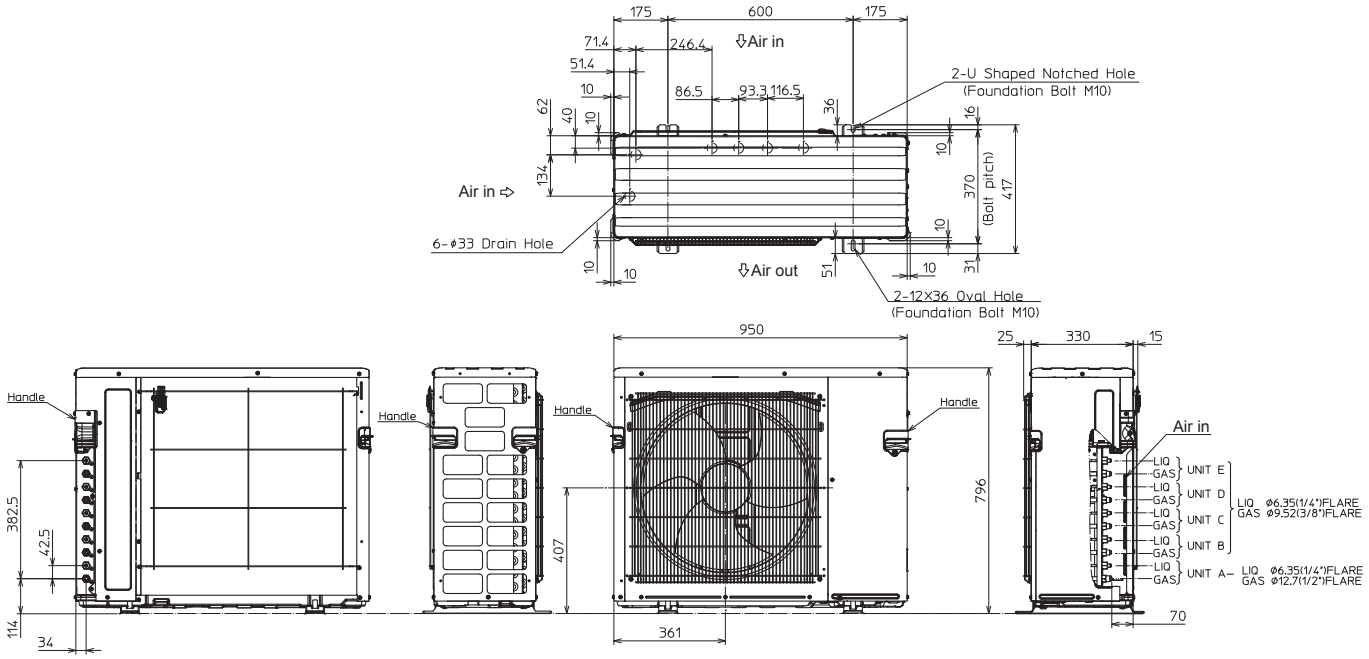
2.SERVICE SPACE



MXZ-5E102VA

OUTDOOR UNIT

Unit: mm



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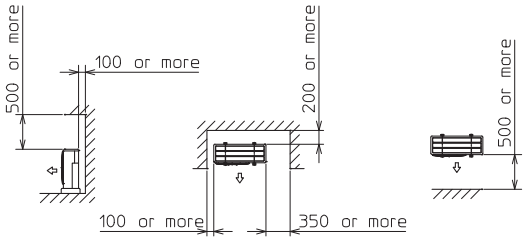

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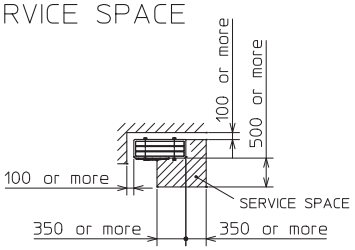
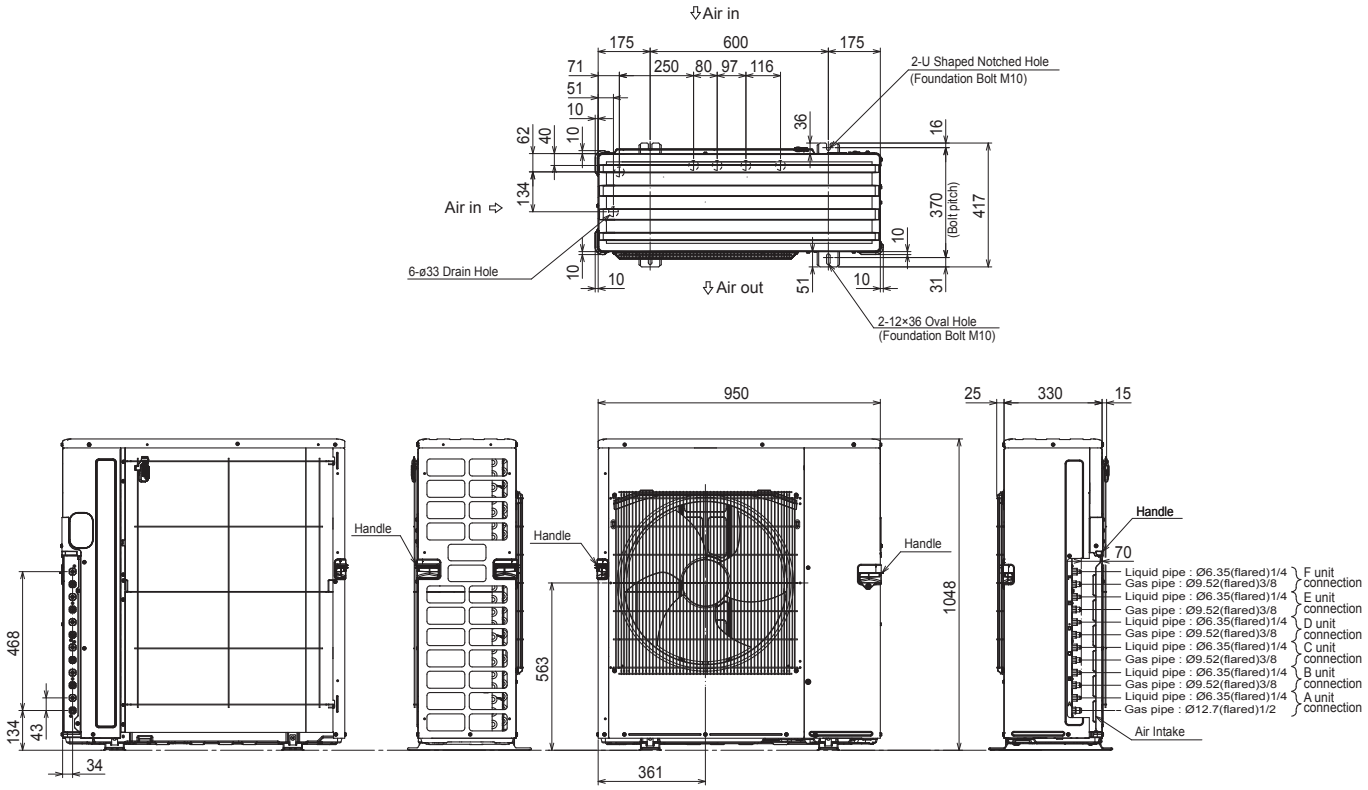


MXZ-6D122VA

OUTDOOR UNIT

Unit: mm



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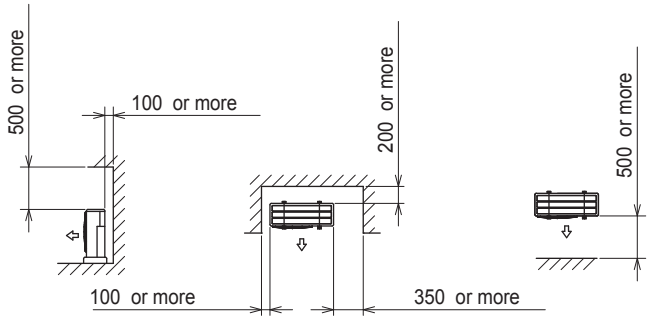
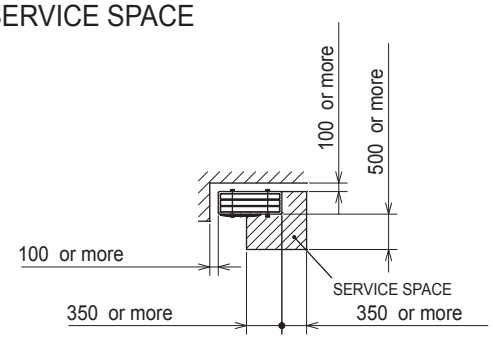


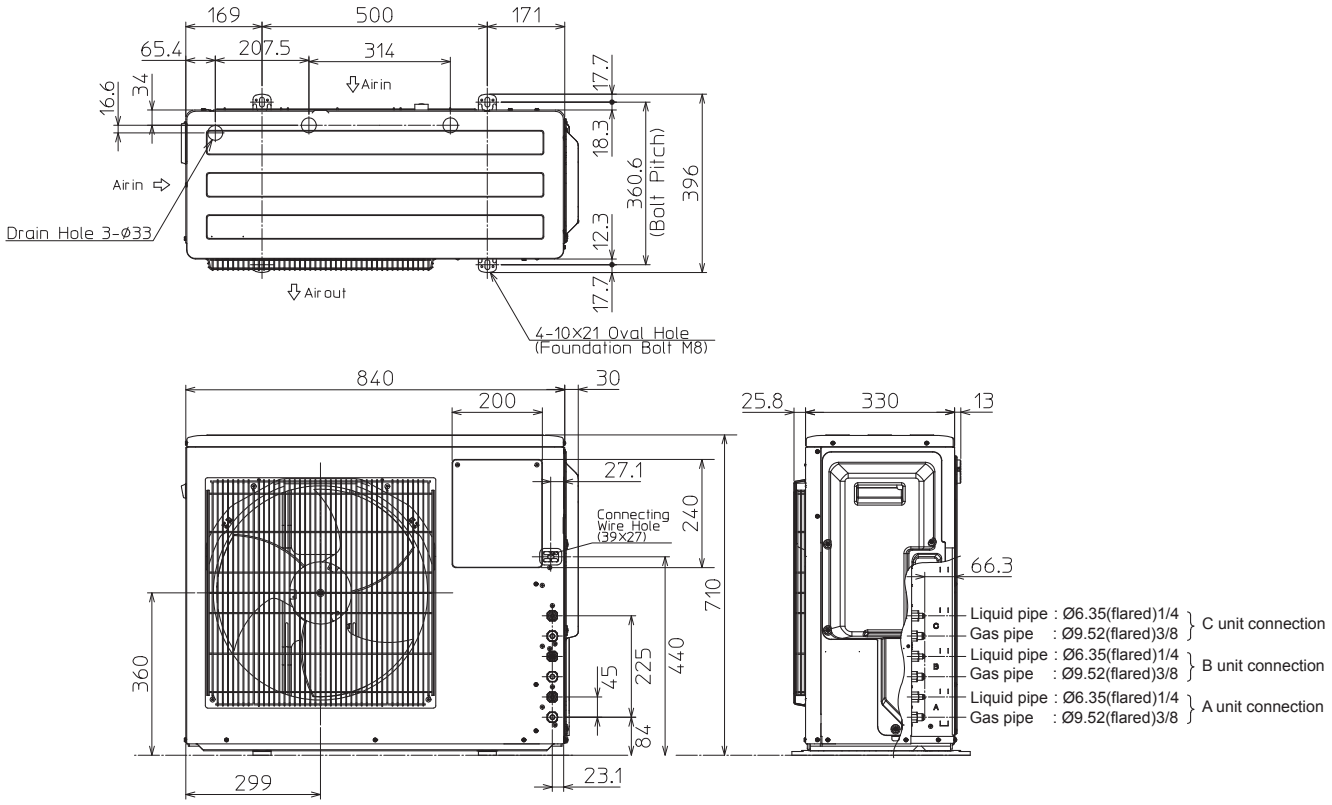
2.SERVICE SPACE



MXZ-3DM50VA

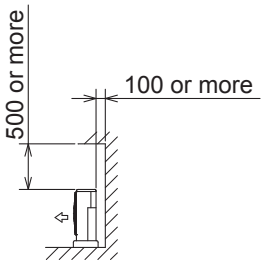
Unit: mm

OUTDOOR UNIT

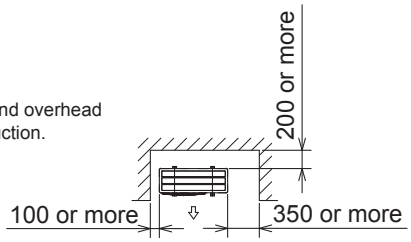


1.Installation space

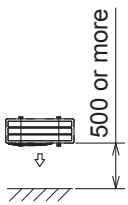
Note : Leave front and both sides free of obstruction.



Note : Leave front and overhead free of obstruction.



Note : Leave rear, overhead and both sides free of obstruction.



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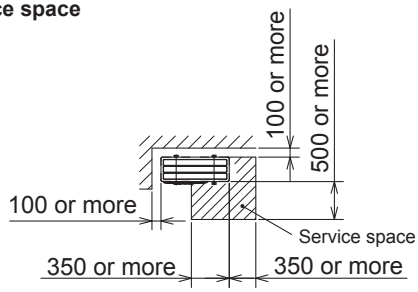
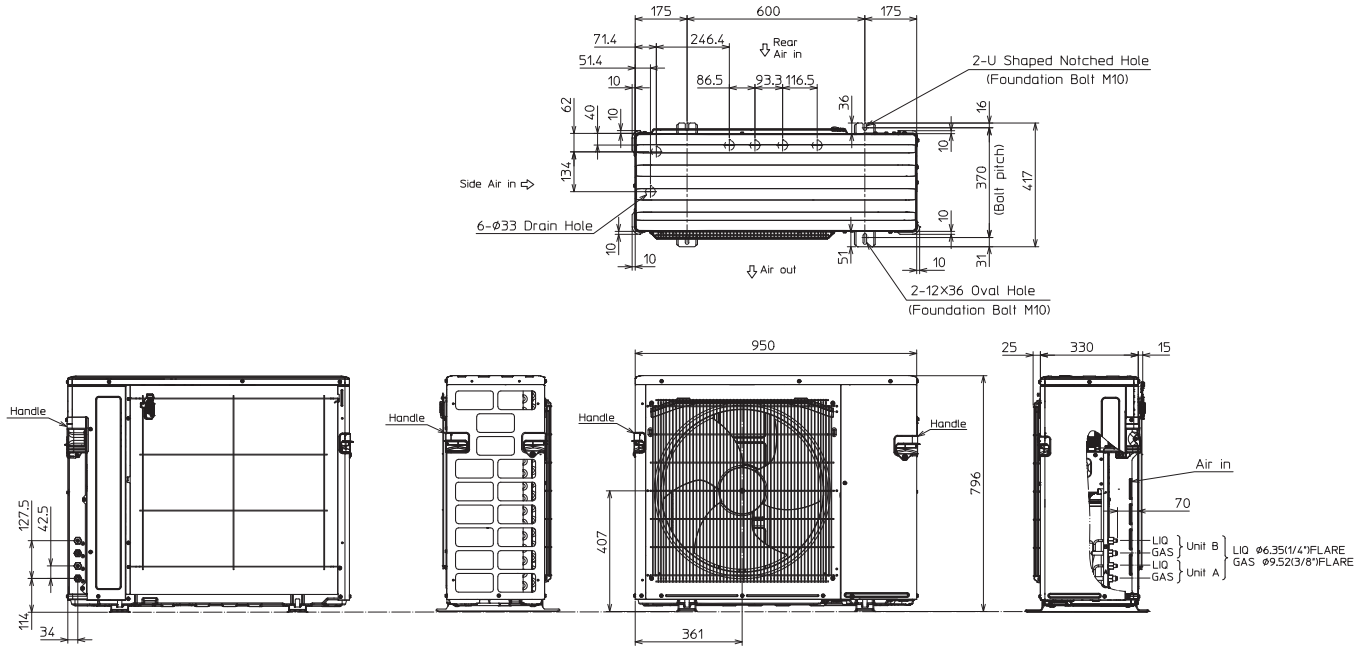


MXZ-2E53VAHZ

OUTDOOR UNIT

Unit: mm



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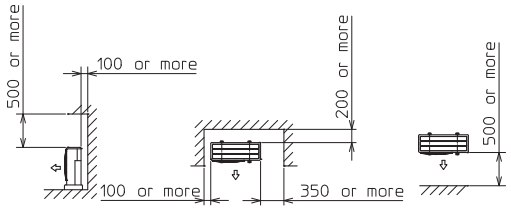

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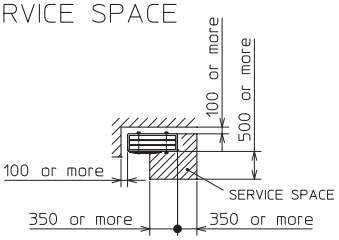
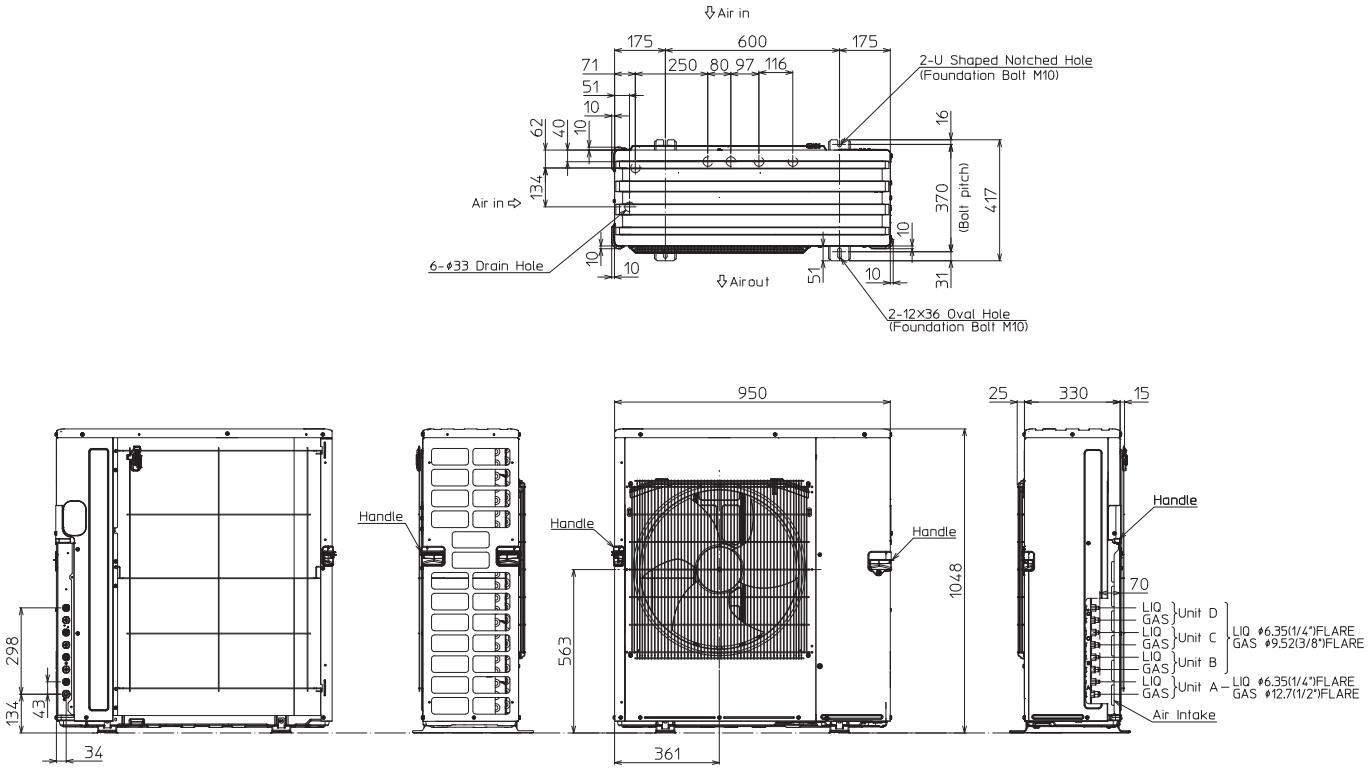


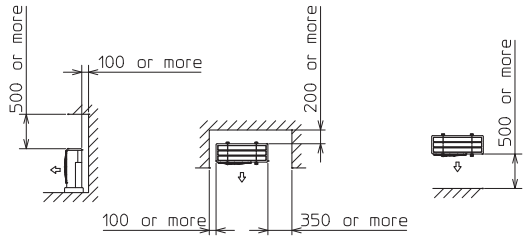
MXZ-4E83VAHZ

OUTDOOR UNIT

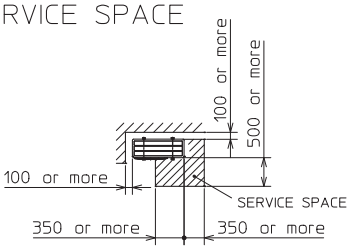
Unit: mm



1.FREE SPACE



2.SERVICE SPACE

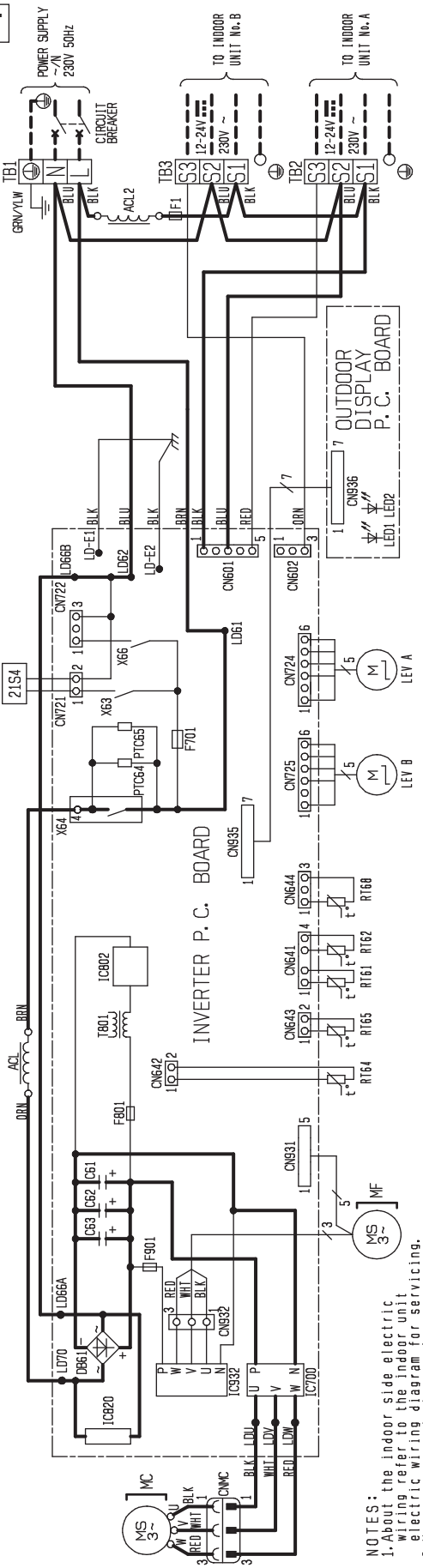


C.4.3 WIRING DIAGRAM

C.4.3.1 Inverter Heat Pump

MXZ-2D33VA

OUTDOOR UNIT

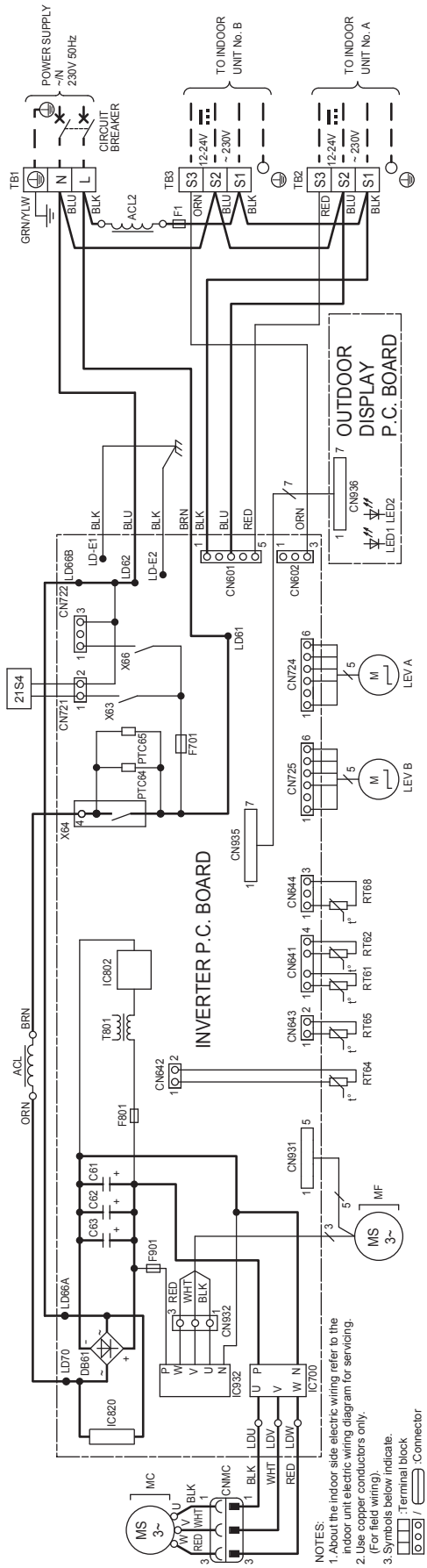


NOTES:
1. About the indoor side electric wiring refer to the indoor unit electric wiring diagram for servicing.
2. Use copper conductors only. (For field wiring).
3. Symbols below indicate.
□□□ :Terminal block
○○○ / ⊂⊃ :Connector

SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
ACL, ACL2	REACTOR	LEV A, LEV B	EXPANSION VALVE COIL	RT65	AMBIENT TEMP. THERMISTOR
C61, C62, C63	SMOOTHING CAPACITOR	MC	COMPRESSOR	RT68	OUTDOOR HEAT EXCHANGER TEMP. THERMISTOR
DB61	DIODE MODULE	MF	FAN MOTOR		
F701, F801, F901, F1	FUSE (T3.15AL250V)	PTC64, PTC65	CIRCUIT PROTECTOR	TB1, TB2, TB3	TERMINAL BLOCK
IC700, IC820, IC932	POWER MODULE	RT61	DEFROST THERMISTOR	T801	SWITCHING TRANS
IC802	POWER DEVICE	RT62	DISCHARGE TEMP. THERMISTOR	X63, X64, X66	RELAY
LED1, LED2	LED	RT64	FIN TEMP. THERMISTOR	21S4	REVERSING VALVE COIL

MXZ-2D42VA2 MXZ-2D53VA2

OUTDOOR UNIT



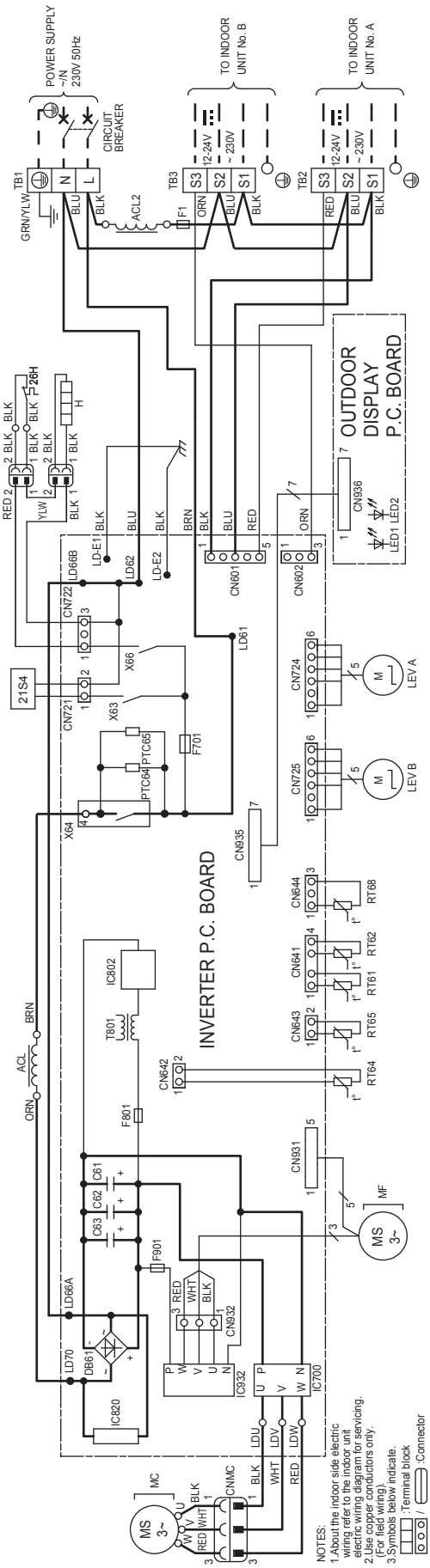
SYMBOL	NAME
ACL, ACL2	REACTOR
C61~63	SMOOTHING CAPACITOR
DB61	DIODE MODULE
F701, 801, 901	FUSE (T3.15AL250V)
F1	FUSE (T3.15AL250V)
IC700, 820, 932	POWER MODULE
IC802	POWER DEVICE
LED1, 2	LED

SYMBOL	NAME
LEV A, B	EXPANSION VALVE COIL
MC	COMPRESSOR
MF	FAN MOTOR
PTC64, 65	CIRCUIT PROTECTOR
RT61	DEFROST THERMISTOR
RT62	DISCHARGE TEMP. THERMISTOR
RT64	FIN TEMP. THERMISTOR
RT65	AMBIENT TEMP. THERMISTOR

SYMBOL	NAME
RT68	OUTDOOR HEAT EXCHANGER TEMP. THERMISTOR
TB1~3	TERMINAL BLOCK
T801	SWITCHING TRANS
X63, 64, 66	RELAY
21S4	REVERSING VALVE COIL

MXZ-2D53VAH2

OUTDOOR UNIT



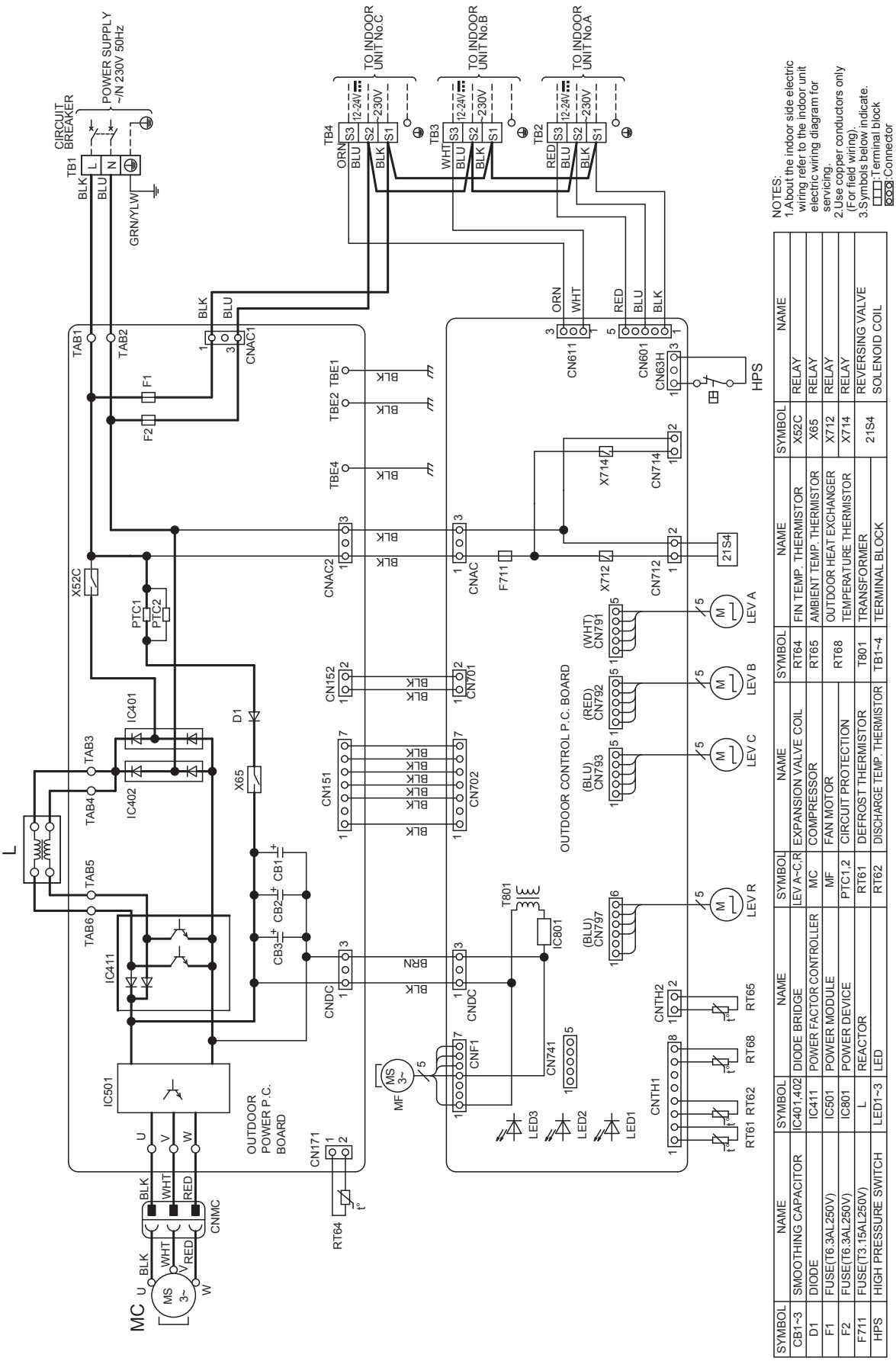
SYMBOL	NAME
ACL, ACL2	REACTOR
C61~63	SMOOTHING CAPACITOR
DB61	DIODE MODULE
F701, 801, 901	FUSE (T3.15AL250V)
F1	FUSE (T3.15AL250V)
H	DEFROST HEATER
IC700, 820, 932	POWER MODULE
IC802	POWER DEVICE

SYMBOL	NAME
LED1, 2	LED
LEV A, B	EXPANSION VALVE COIL
MC	COMPRESSOR
MF	FAN MOTOR
PTC64, 65	CIRCUIT PROTECTOR
RT61	DEFROST THERMISTOR
RT62	DISCHARGE TEMP. THERMISTOR
RT64	FIN TEMP. THERMISTOR

SYMBOL	NAME
RT65	AMBIENT TEMP. THERMISTOR
RT68	OUTDOOR HEAT EXCHANGER TEMP. THERMISTOR
TB1~3	TERMINAL BLOCK
T801	SWITCHING TRANS
X63, 64, 66	RELAY
21S4	REVERSING VALVE COIL
26H	HEATER PROTECTOR

MXZ-3E54VA MXZ-3E68VA

OUTDOOR UNIT



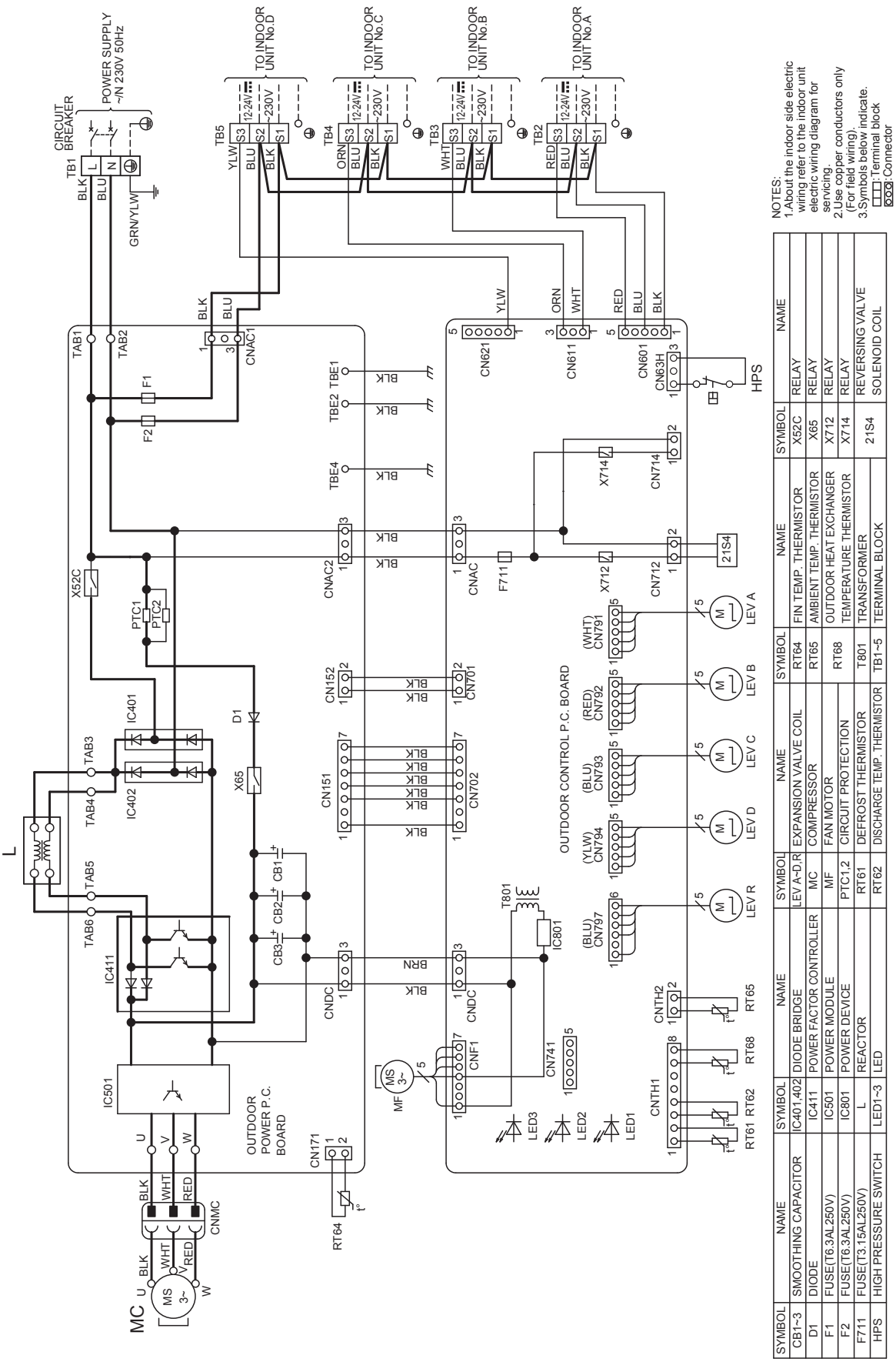
NOTES:
1.About the indoor side electric wiring refer to the indoor unit electric wiring diagram for servicing.
2.Use copper conductors only (For field wiring).
3.Symbols below indicate.
□□□:Terminal block
⊂⊃⊂⊃⊂⊃:Connector

SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
CB1~3	SMOOTHING CAPACITOR	IC401,402	DIODE BRIDGE	LEV A~C,R	EXPANSION VALVE COIL	RT64	FIN TEMP. THERMISTOR
D1	DIODE	IC411	POWER FACTOR CONTROLLER	MC	COMPRESSOR	RT65	AMBIENT TEMP. THERMISTOR
F1	FUSE(T6.3AL250V)	IC501	POWER MODULE	MF	FAN MOTOR	RT68	OUTDOOR HEAT EXCHANGER TEMPERATURE THERMISTOR
F2	FUSE(T6.3AL250V)	IC801	POWER DEVICE	PTC1,2	CIRCUIT PROTECTION		
F711	FUSE(T3.15AL250V)	L	REACTOR	RT61	DEFROST THERMISTOR	T801	TRANSFORMER
HPS	HIGH PRESSURE SWITCH	LED1~3	LED	RT62	DISCHARGE TEMP. THERMISTOR	TB1~4	TERMINAL BLOCK

SYMBOL	NAME
X52C	RELAY
X65	RELAY
X712	RELAY
X714	RELAY
21S4	REVERSING VALVE SOLENOID COIL

MXZ-4E72VA

OUTDOOR UNIT



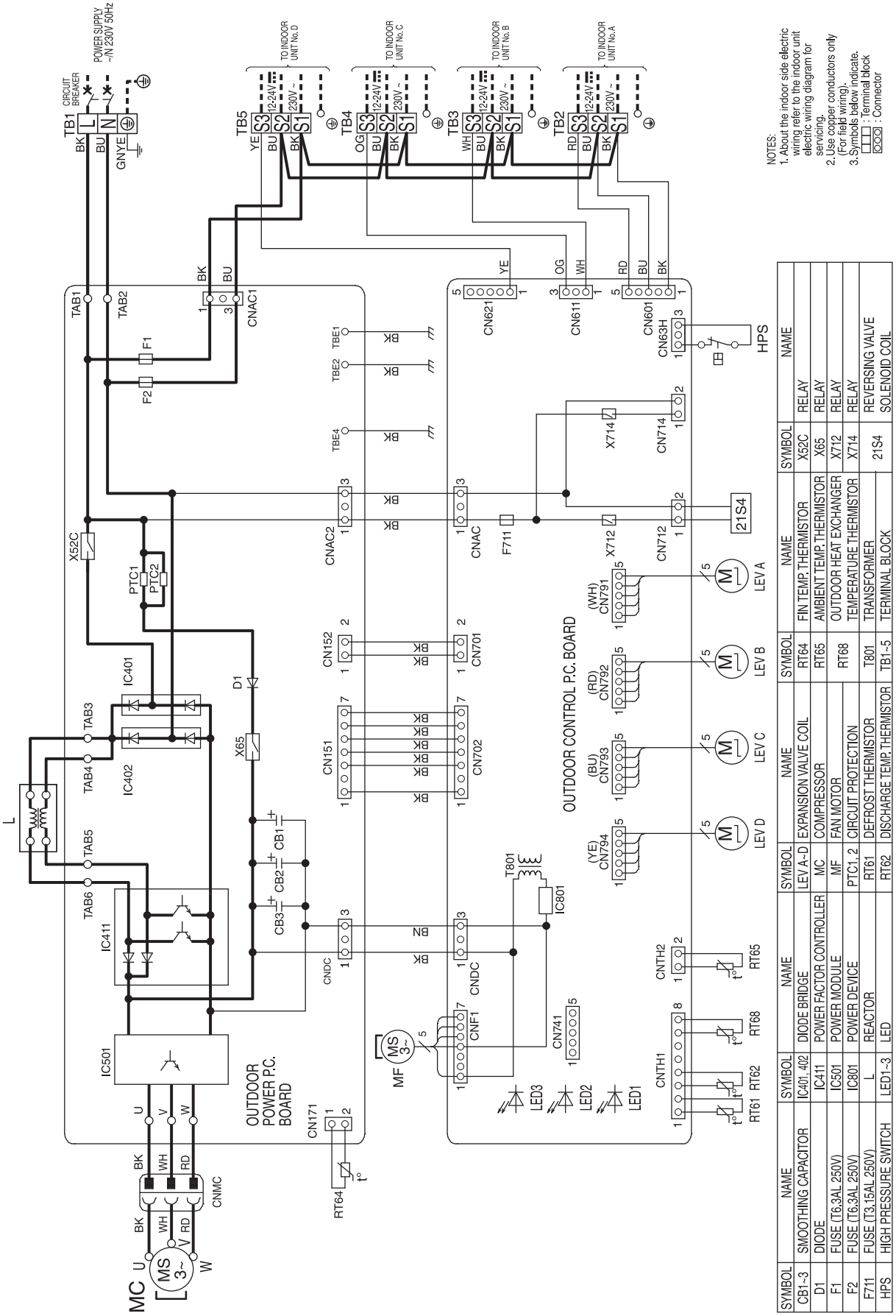
SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
CB1~3	SMOOTHING CAPACITOR	IC401,402	DIODE BRIDGE	LEV A~D,R	EXPANSION VALVE COIL	RT64	FIN TEMP. THERMISTOR
D1	DIODE	IC411	POWER FACTOR CONTROLLER	MC	COMPRESSOR	RT65	AMBIENT TEMP. THERMISTOR
F1	FUSE(T6.3AL250V)	IC501	POWER MODULE	MF	FAN MOTOR	RT68	OUTDOOR HEAT EXCHANGER
F2	FUSE(T6.3AL250V)	IC801	POWER DEVICE	PTC1,2	CIRCUIT PROTECTION		TEMPERATURE THERMISTOR
F711	FUSE(T3.15AL250V)	L	REACTOR	RT61	DEFROST THERMISTOR	T801	TRANSFORMER
HPS	HIGH PRESSURE SWITCH	LED1~3	LED	RT62	DISCHARGE TEMP. THERMISTOR	TB1~5	TERMINAL BLOCK

SYMBOL	NAME
X52C	RELAY
X65	RELAY
X712	RELAY
X714	RELAY
21S4	REVERSING VALVE SOLENOID COIL

NOTES:
1.About the indoor side electric wiring refer to the indoor unit electric wiring diagram for servicing.
2.Use copper conductors only (For field wiring).
3.Symbols below indicate.
□□□: Terminal block
○○○: Connector

MXZ-4E83VA

OUTDOOR UNIT

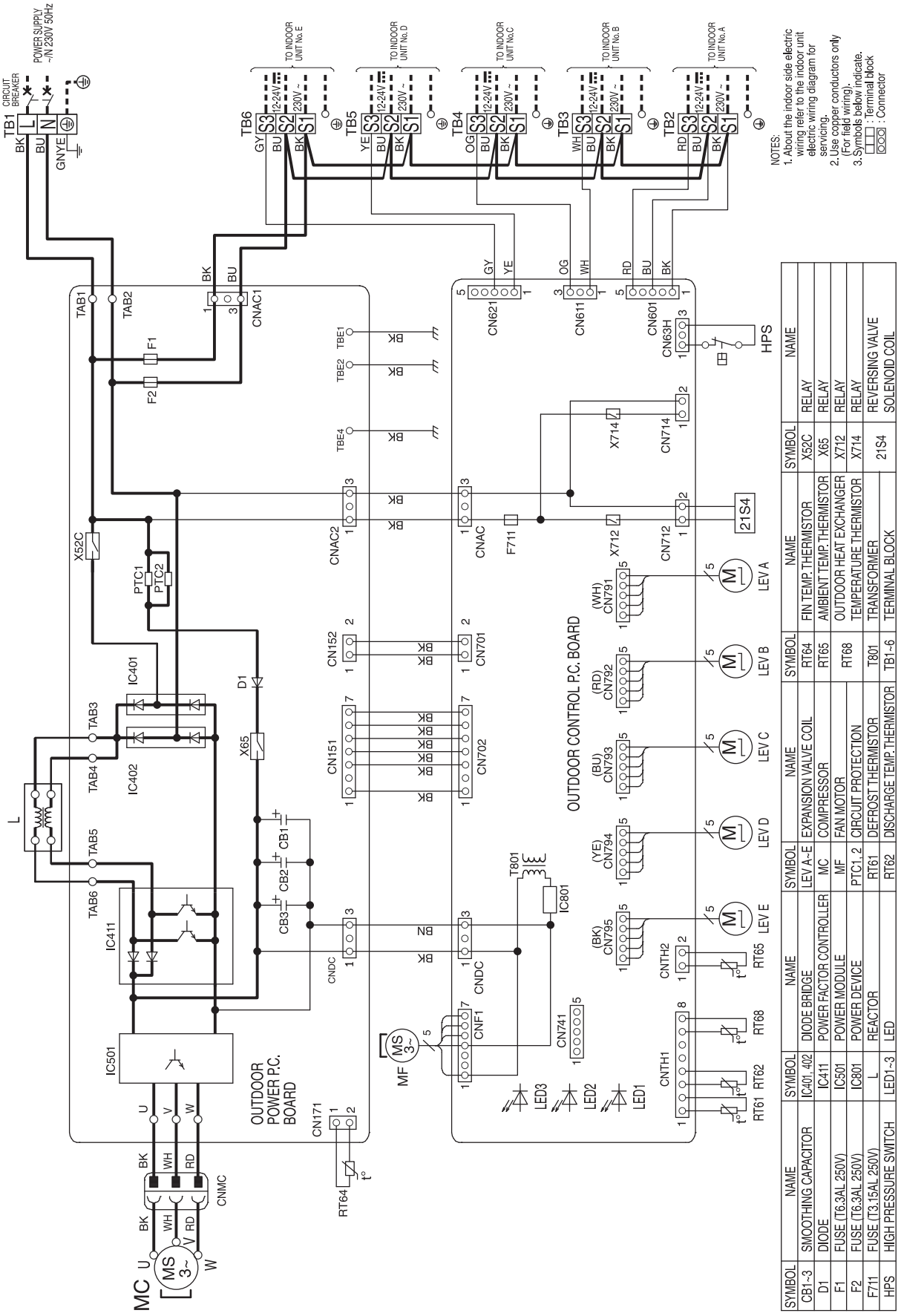


SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
CB1~3	SMOOTHING CAPACITOR	IC401, 402	DIODE BRIDGE	LEV A~D	EXPANSION VALVE COIL	RT64	FIN TEMP. THERMISTOR
D1	DIODE	IC411	POWER FACTOR CONTROLLER	MC	COMPRESSOR	RT65	AMBIENT TEMP. THERMISTOR
F1	FUSE (T6.3AL 250V)	IC501	POWER MODULE	MF	FAN MOTOR	RT68	OUTDOOR HEAT EXCHANGER
F2	FUSE (T6.3AL 250V)	IC801	POWER DEVICE	PTC1, 2	CIRCUIT PROTECTION		TEMPERATURE THERMISTOR
F711	FUSE (T3.15AL 250V)	L	REACTOR	RT61	DEFROST THERMISTOR	T801	TRANSFORMER
HPS	HIGH PRESSURE SWITCH	LED1~3	LED	RT62	DISCHARGE TEMP. THERMISTOR	TB1~5	TERMINAL BLOCK

SYMBOL	NAME
X52C	RELAY
X65	RELAY
X712	RELAY
X714	RELAY
21S4	REVERSING VALVE SOLENOID COIL

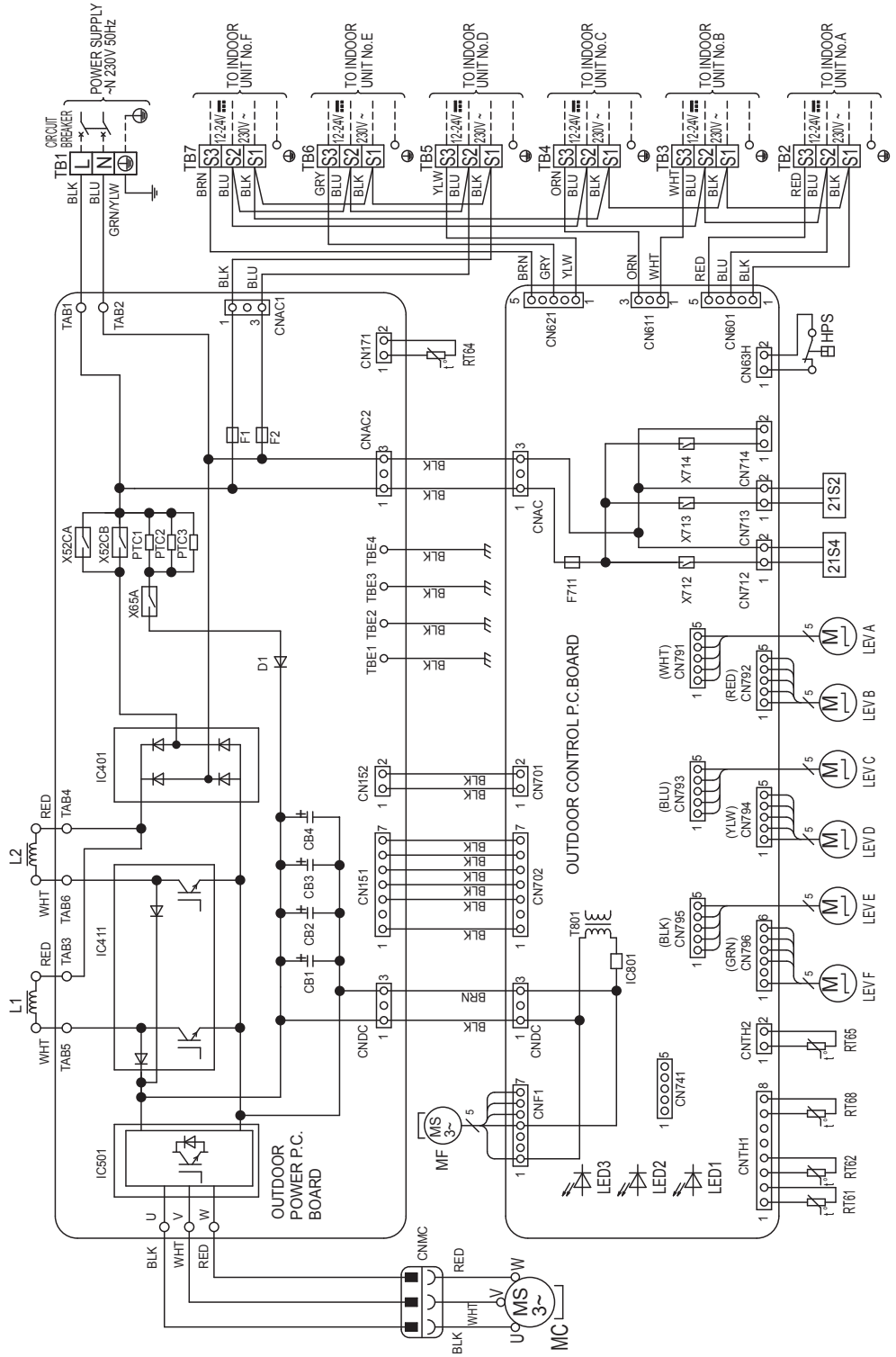
MXZ-5E102VA

OUTDOOR UNIT



SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
CB1~3	SMOOTHING CAPACITOR	IC401, 402	DIODE BRIDGE	LEV A~E	EXPANSION VALVE COIL	RT64	FIN TEMP. THERMISTOR
D1	DIODE	IC411	POWER FACTOR CONTROLLER	MC	COMPRESSOR	RT65	AMBIENT TEMP. THERMISTOR
F1	FUSE (T6.3AL 250V)	IC501	POWER MODULE	MF	FAN MOTOR	RT68	OUTDOOR HEAT EXCHANGER
F2	FUSE (T6.3AL 250V)	IC801	POWER DEVICE	PTC1, 2	CIRCUIT PROTECTION	RT61	TEMPERATURE THERMISTOR
F711	FUSE (T3.15AL 250V)	L	REACTOR	RT61	DEFROST THERMISTOR	T801	TRANSFORMER
HPS	HIGH PRESSURE SWITCH	LED1~3	LED	RT62	DISCHARGE TEMP. THERMISTOR	TB1~6	TERMINAL BLOCK
						X52C	RELAY
						X65	RELAY
						X712	RELAY
						X714	RELAY
						21S4	REVERSING VALVE SOLENOID COIL

MXZ-6D122VA
OUTDOOR UNIT

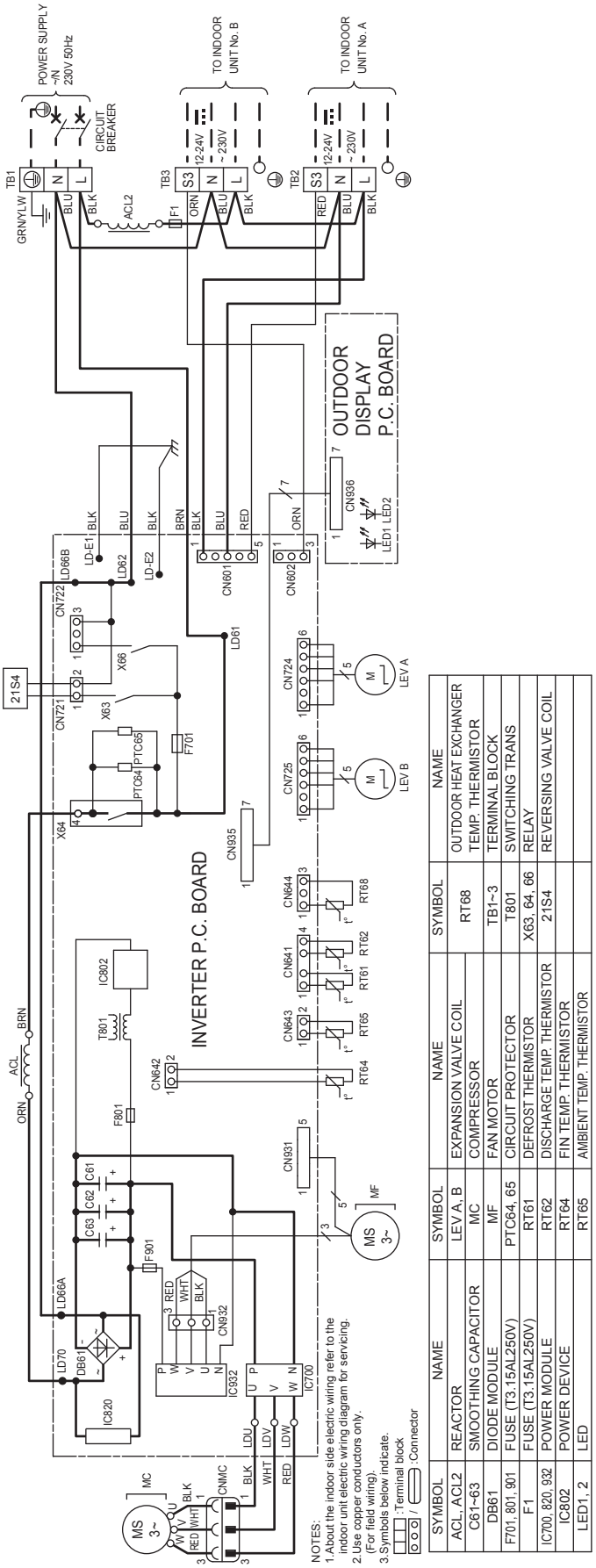


NOTES:
1.About the indoor side electric wiring refer to the indoor unit electric wiring diagram for servicing.
2.Use copper conductors only (For field wiring).
3.Symbols below indicate.

□□□ : Terminal block
⊙⊙⊙ : Connector

SYMBOL	NAME	SYMBOL	NAME
CB1~4	SMOOTHING CAPACITOR	L1L2	REACTOR
D1	DIODE	LED 1~3	LED
F1,F2	FUSE(T6.3AL250V)	LEV A~F	EXPANSION VALVE
F711	FUSE(T3.15AL250V)	MC	COMPRESSOR
HPS	HIGH PRESSURE SWITCH	MF	FAN MOTOR
IC401	DIODE BRIDGE	T801	TRANSFORMER
IC411	POWER MODULE	TB1~7	TERMINAL BLOCK
IC501	POWER MODULE	X52CA,B	RELAY
IC801	POWER DEVICE	X65A	RELAY
PTC1~3	CIRCUIT PROTECTION	X712	RELAY
RT61	DEFROST THERMISTOR	X713	RELAY
RT62	DISCHARGE TEMP.THERMISTOR	X714	RELAY
RT64	FIN TEMP.THERMISTOR	21S2	2 WAY VALVE SOLENOIDE COIL
RT65	AMBIENT TEMP.THERMISTOR	21S4	REVERSING VALVE SOLENOID COIL
RT68	OUTDOOR HEAT EXCHANGER TEMPERATURE THERMISTOR		

MXZ-2DM40VA
OUTDOOR UNIT

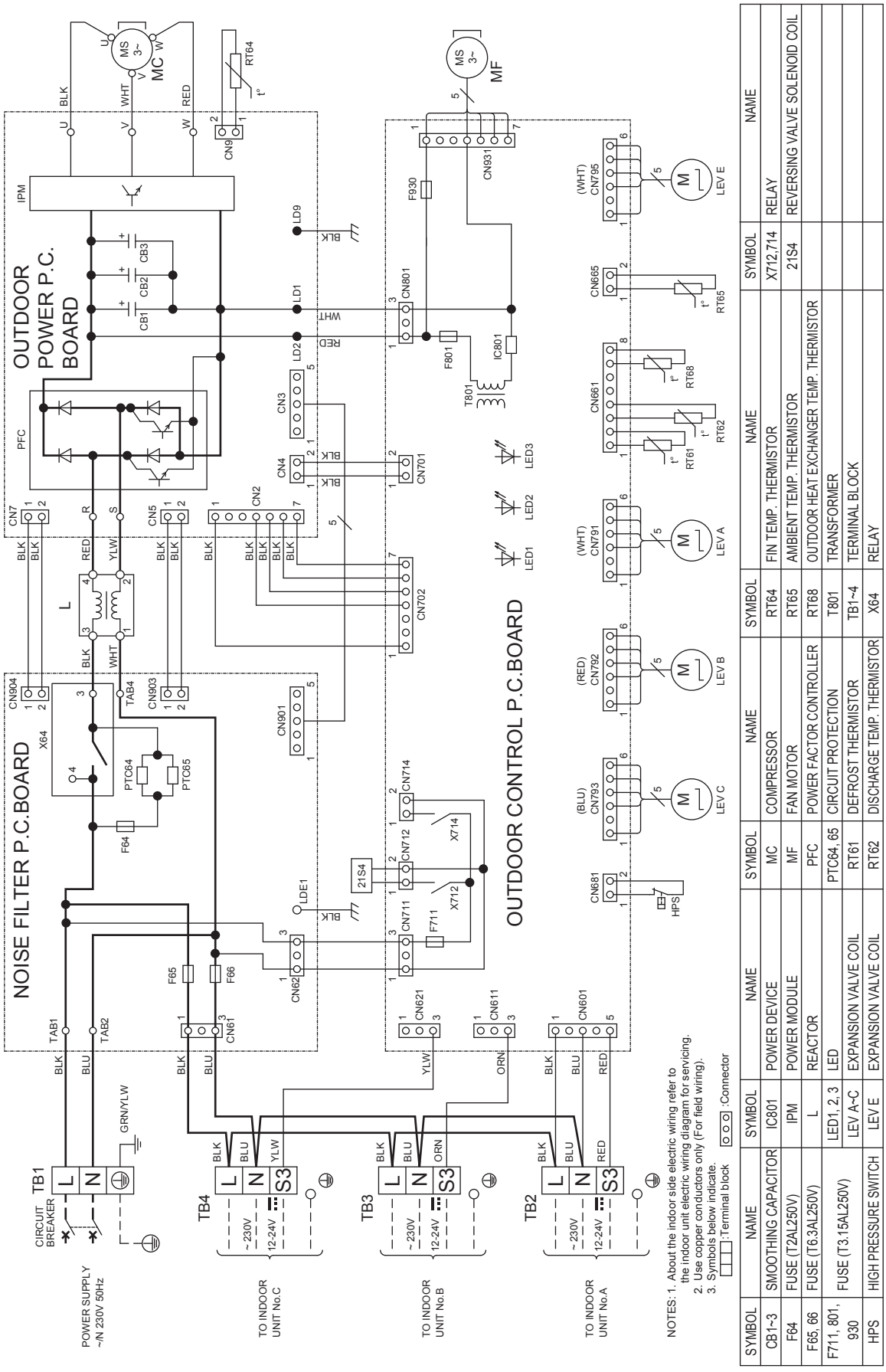


NOTES:
1. About the indoor side electric wiring refer to the indoor unit electric wiring diagram for servicing.
2. Use copper conductors only. (For field wiring).
3. Symbols below indicate.
: Terminal block
: Connector

SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
ACL, ACL2	REACTOR	LEV A, B	EXPANSION VALVE COIL	RT68	OUTDOOR HEAT EXCHANGER TEMP. THERMISTOR
C61~63	SMOOTHING CAPACITOR	MC	COMPRESSOR		
DB61	DIODE MODULE	MF	FAN MOTOR	TB1~3	TERMINAL BLOCK
F701, 801, 901	FUSE (T3.15AL250V)	PTC64, 65	CIRCUIT PROTECTOR	T801	SWITCHING TRANS
F1	FUSE (T3.15AL250V)	RT61	DEFROST THERMISTOR	X63, 64, 66	RELAY
IC700, 820, 932	POWER MODULE	RT62	DISCHARGE TEMP. THERMISTOR	21S4	REVERSING VALVE COIL
IC802	POWER DEVICE	RT64	FIN TEMP. THERMISTOR		
LED1, 2	LED	RT65	AMBIENT TEMP. THERMISTOR		

MXZ-3DM50VA

OUTDOOR UNIT



SYMBOL	NAME	SYMBOL	NAME
CB1~3	SMOOTHING CAPACITOR	IC801	POWER DEVICE
F64	FUSE (T2AL250V)	IPM	POWER MODULE
F65, 66	FUSE (T6.3AL250V)	L	REACTOR
F711, 801, 930	FUSE (T3.15AL250V)	LED1, 2, 3	LED
		LEV A~C	EXPANSION VALVE COIL
HPS	HIGH PRESSURE SWITCH	LEV E	EXPANSION VALVE COIL

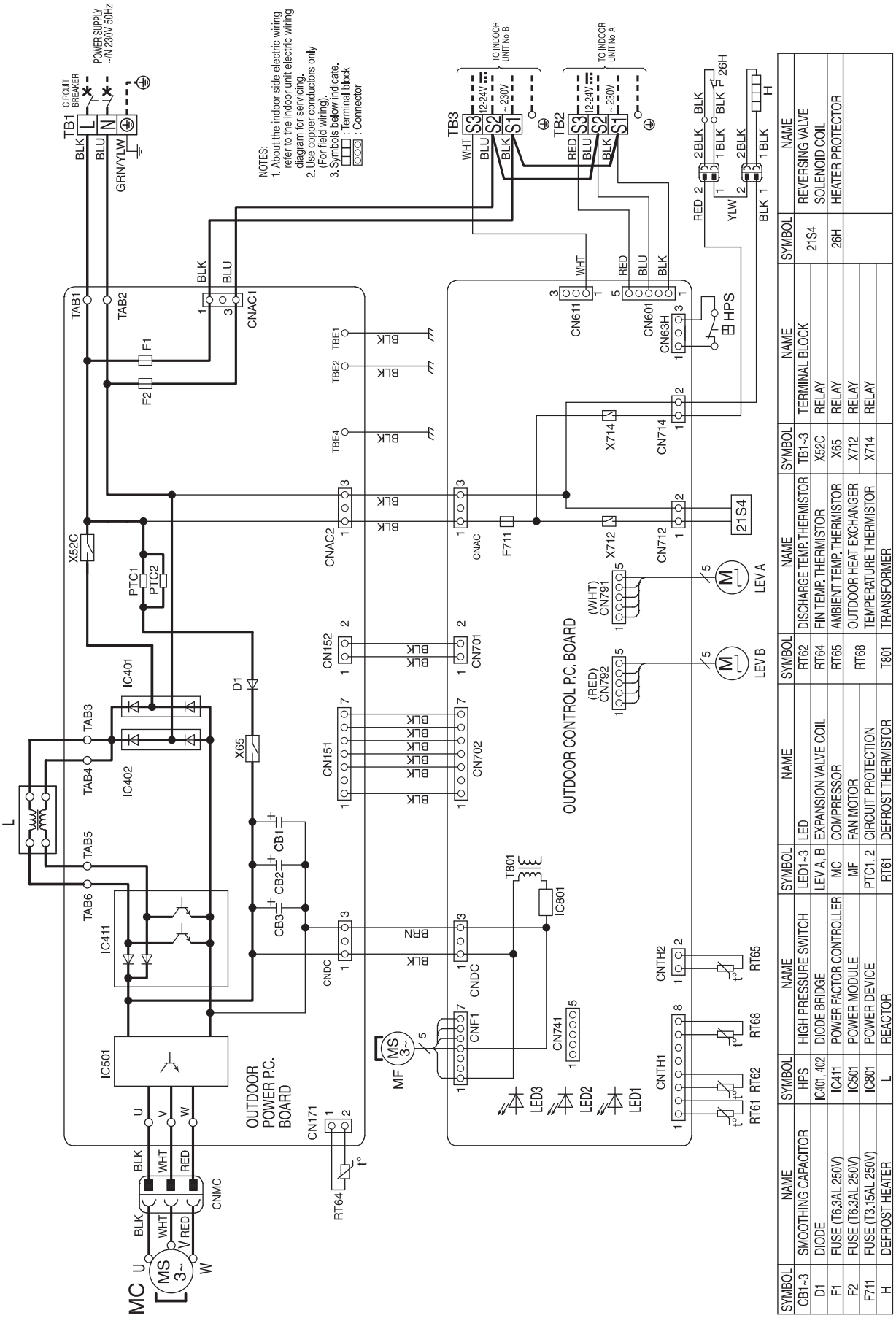
SYMBOL	NAME	SYMBOL	NAME
MC	COMPRESSOR	RT64	FIN TEMP. THERMISTOR
MF	FAN MOTOR	RT65	AMBIENT TEMP. THERMISTOR
PFC	POWER FACTOR CONTROLLER	RT68	OUTDOOR HEAT EXCHANGER TEMP. THERMISTOR
PTC64, 65	CIRCUIT PROTECTION	T801	TRANSFORMER
RT61	DEFROST THERMISTOR	TB1~4	TERMINAL BLOCK
RT62	DISCHARGE TEMP. THERMISTOR	X64	RELAY

SYMBOL	NAME
X712,714	RELAY
21S4	REVERSING VALVE SOLENOID COIL

NOTES: 1. About the indoor side electric wiring refer to the indoor unit electric wiring diagram for servicing.
2. Use copper conductors only (For field wiring).
3. Symbols below indicate.
□□□ :Terminal block ○○○ :Connector

MXZ-2E53VAHZ

OUTDOOR UNIT

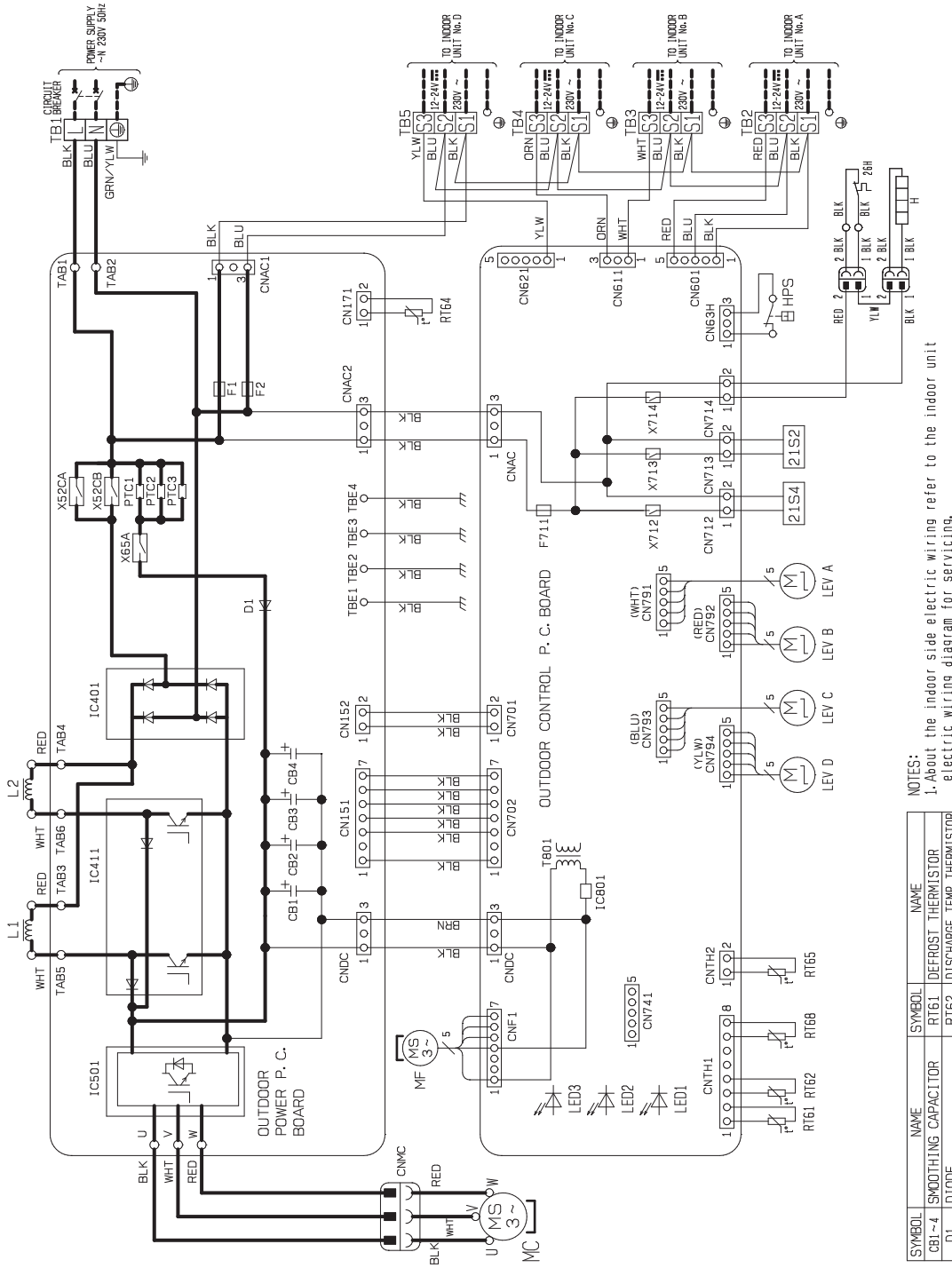


SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
CB1~3	SMOOTHING CAPACITOR	HPS	HIGH PRESSURE SWITCH	LED1~3	LED	RT62	DISCHARGE TEMP. THERMISTOR	TB1~3	TERMINAL BLOCK
D1	DIODE	IC401, 402	DIODE BRIDGE	LEV A, B	EXPANSION VALVE COIL	RT64	FIN TEMP. THERMISTOR	X52C	RELAY
F1	FUSE (T6.3AL 250V)	IC411	POWER FACTOR CONTROLLER	MC	COMPRESSOR	RT65	AMBIENT TEMP. THERMISTOR	X65	RELAY
F2	FUSE (T6.3AL 250V)	IC501	POWER MODULE	MF	FAN MOTOR	RT68	OUTDOOR HEAT EXCHANGER	X712	RELAY
F711	FUSE (T3.15AL 250V)	IC801	POWER DEVICE	PTC1, 2	CIRCUIT PROTECTION		TEMPERATURE THERMISTOR	X714	RELAY
H	DEFROST HEATER	L	REACTOR	RT61	DEFROST THERMISTOR	T801	TRANSFORMER		

SYMBOL	NAME
21S4	REVERSING VALVE SOLENOID COIL
26H	HEATER PROTECTOR

MXZ-4E83VAHZ

OUTDOOR UNIT



NOTES:
1. About the indoor side electric wiring refer to the indoor unit electric wiring diagram for servicing.
2. Use copper conductors only (For field wiring).
3. Symbols below indicate.
□□□ :Terminal block
⊙⊙⊙ :connector

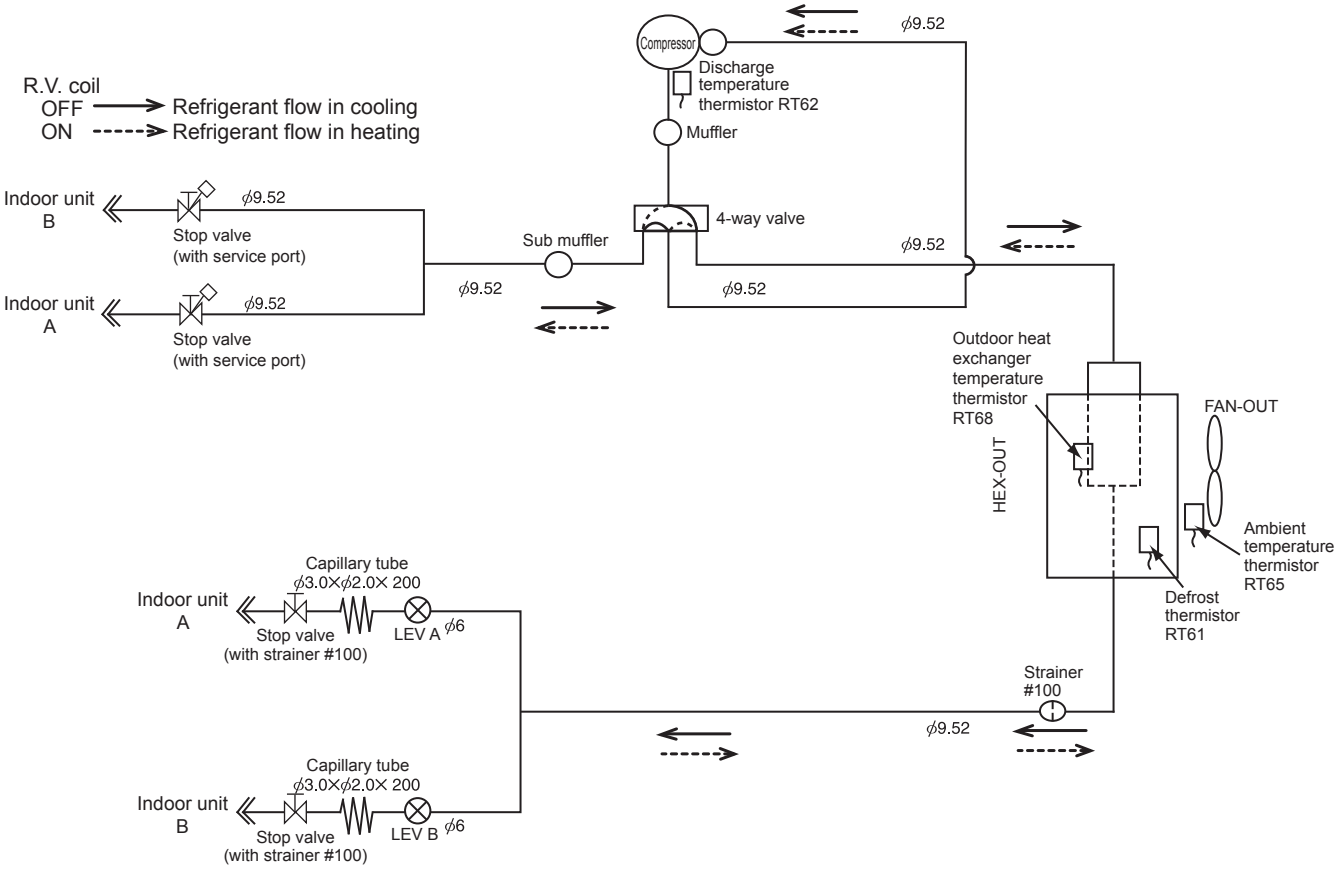
SYMBOL	NAME	SYMBOL	NAME
CB1~4	SMOOTHING CAPACITOR	RT61	DEFROST THERMISTOR
D1	DIODE	RT62	DISCHARGE TEMP. THERMISTOR
F1, F2	FUSE (T6.3AL250V)	RT64	FIN TEMP. THERMISTOR
F711	FUSE (T3.15AL250V)	RT65	AMBIENT TEMP. THERMISTOR
H	DEFROST HEATER	RT68	OUTDOOR HEAT EXCHANGER TEMPERATURE THERMISTOR
HPS	HIGH PRESSURE SWITCH	T801	TRANSFORMER
IC401	DIODE BRIDGE	TB1~5	TERMINAL BLOCK
IC411	POWER MODULE	X52CA, B	RELAY
IC501	POWER MODULE	X65A	RELAY
ICB01	POWER DEVICE	X712	RELAY
L1, L2	REACTOR	X713	RELAY
LED 1~3	LED	X714	RELAY
LEV A~D	EXPANSION VALVE	21S2	2WAY VALVE SOLENOID COIL
MC	COMPRESSOR	21S4	REVERSING VALVE SOLENOID COIL
MF	FAN MOTOR	26H	HEATER PROTECTOR
PTC1~3	CIRCUIT PROTECTION		

C.4.4 REFRIGERANT SYSTEM DIAGRAM

Unit: mm

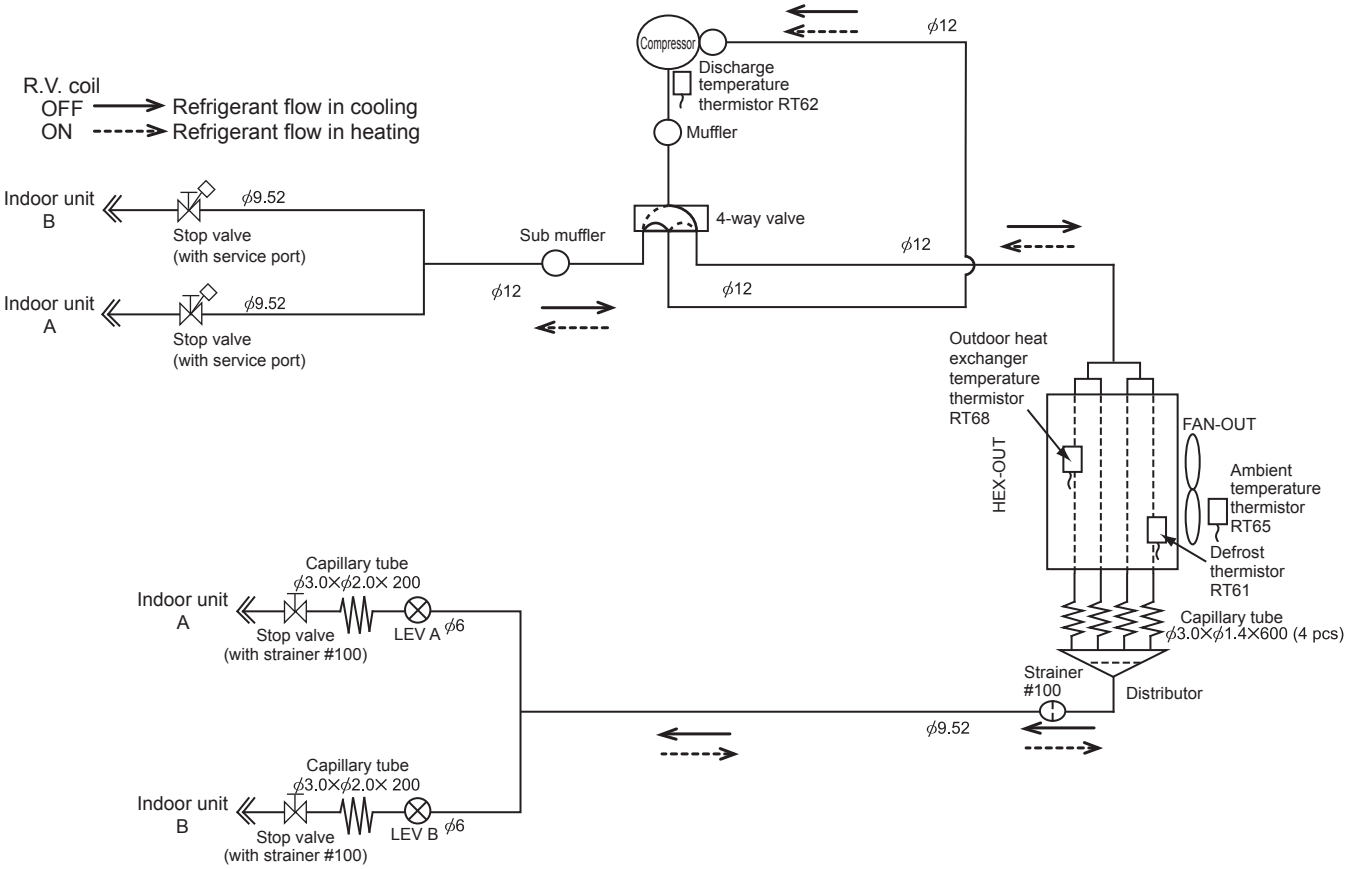
C.4.4.1 Inverter Heat Pump

MXZ-2D33VA



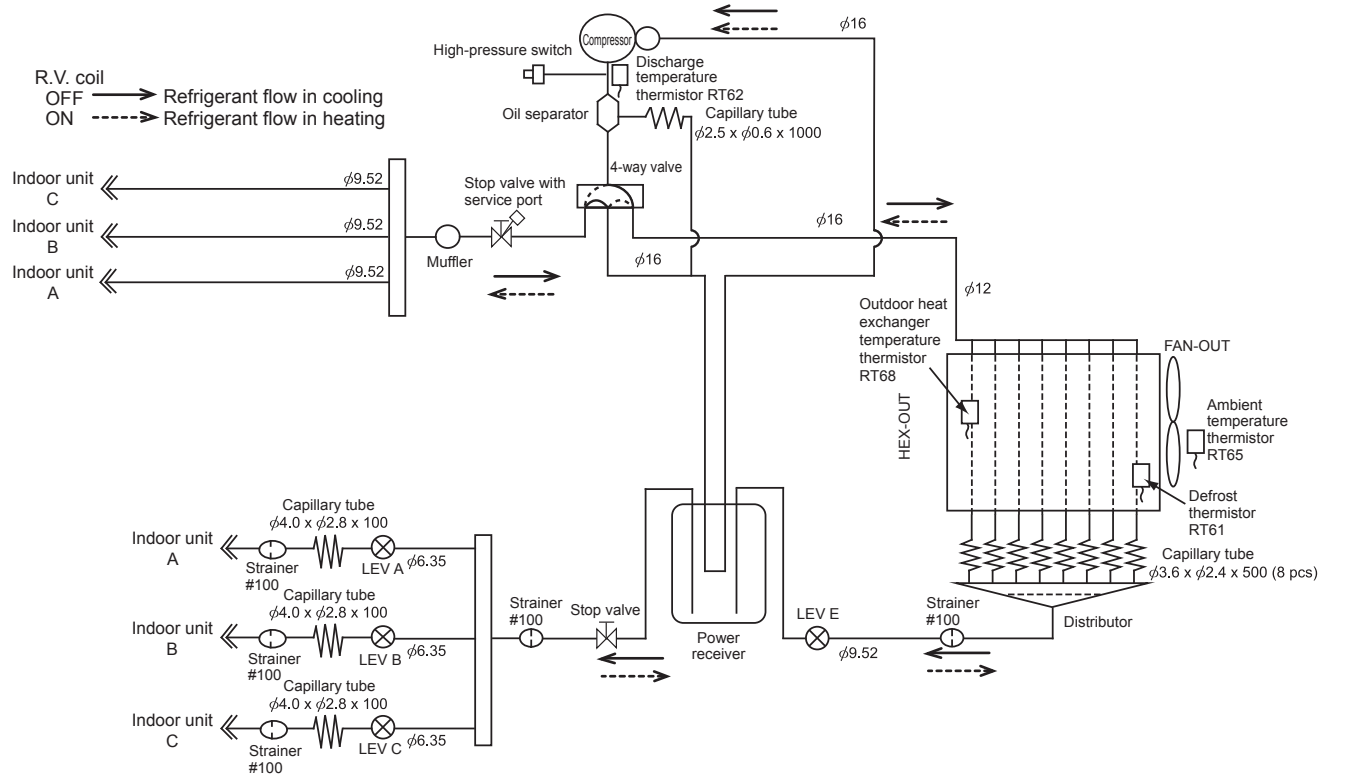
MXZ-2D42VA2 MXZ-2D53VA2 MXZ-2D53VAH2

Unit: mm



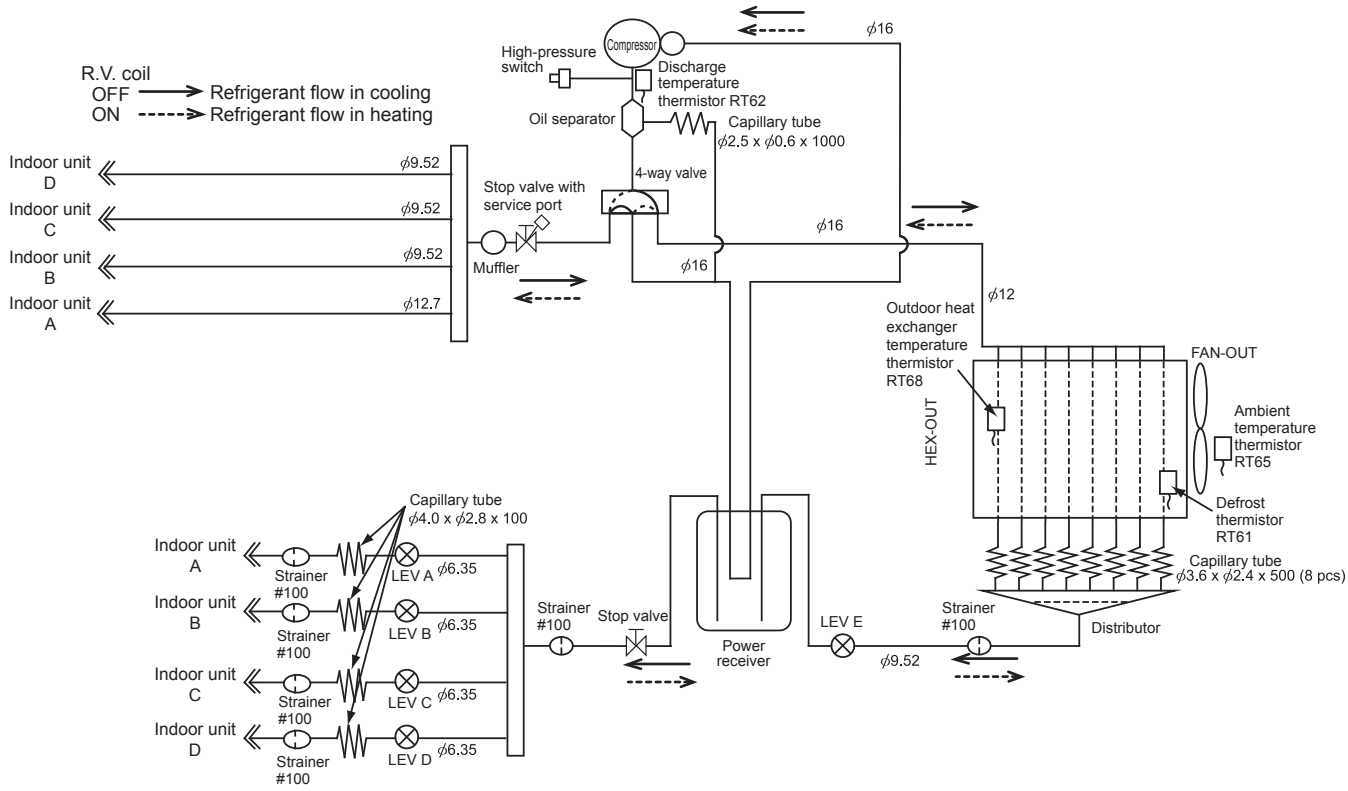
MXZ-3E54VA MXZ-3E68VA

Unit: mm



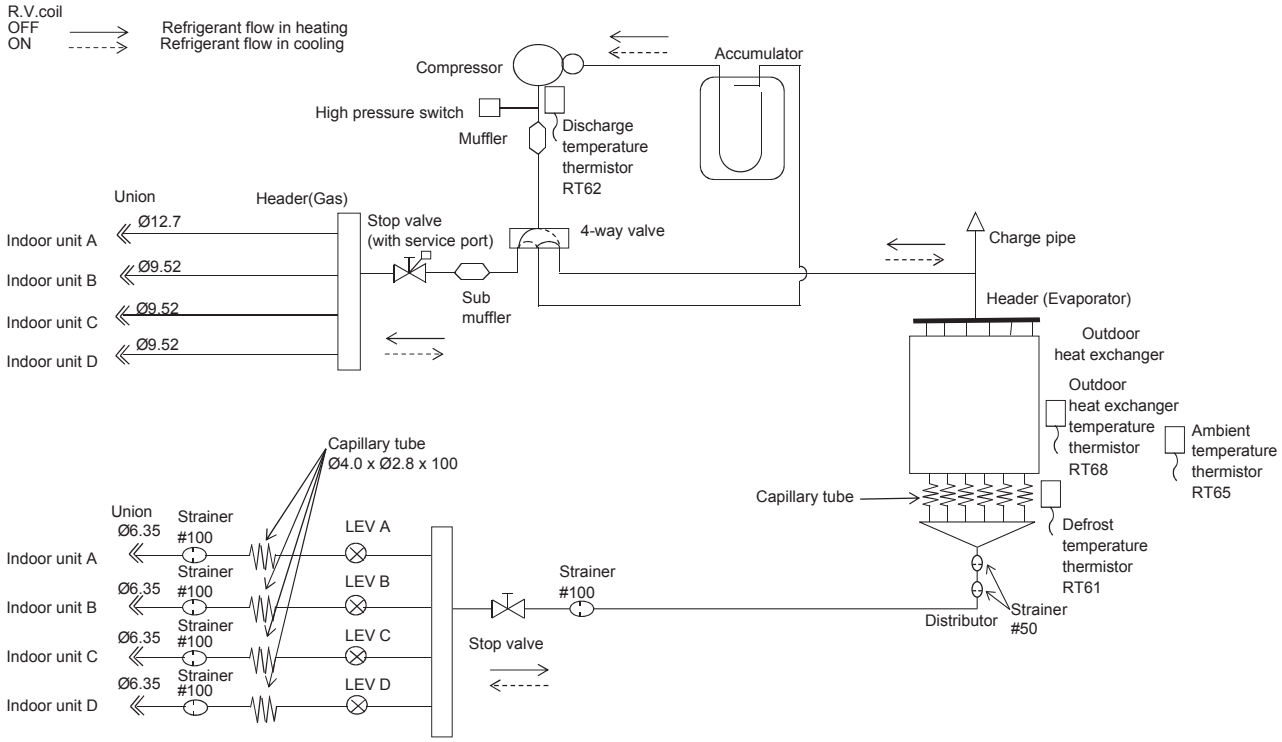
MXZ-4E72VA

Unit: mm



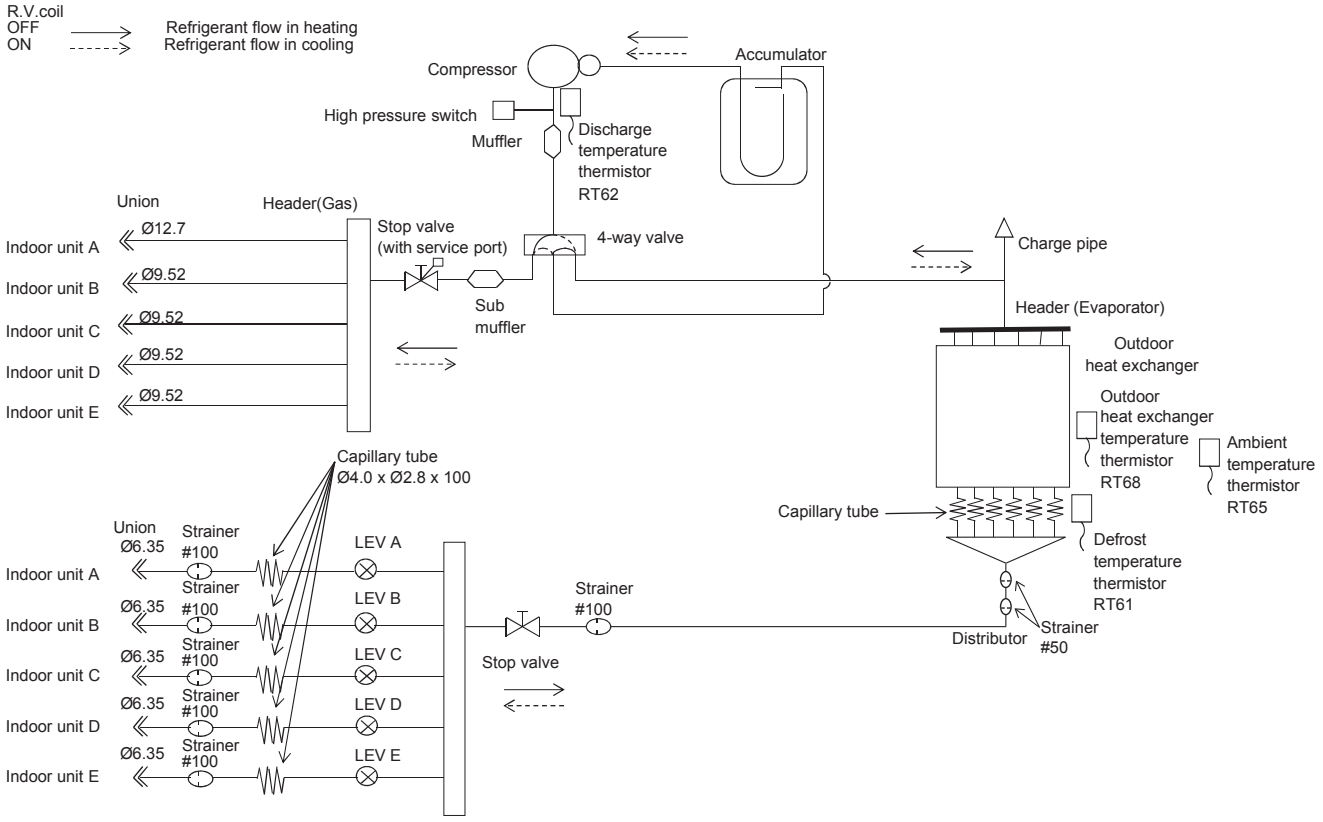
MXZ-4E83VA

UNIT: mm



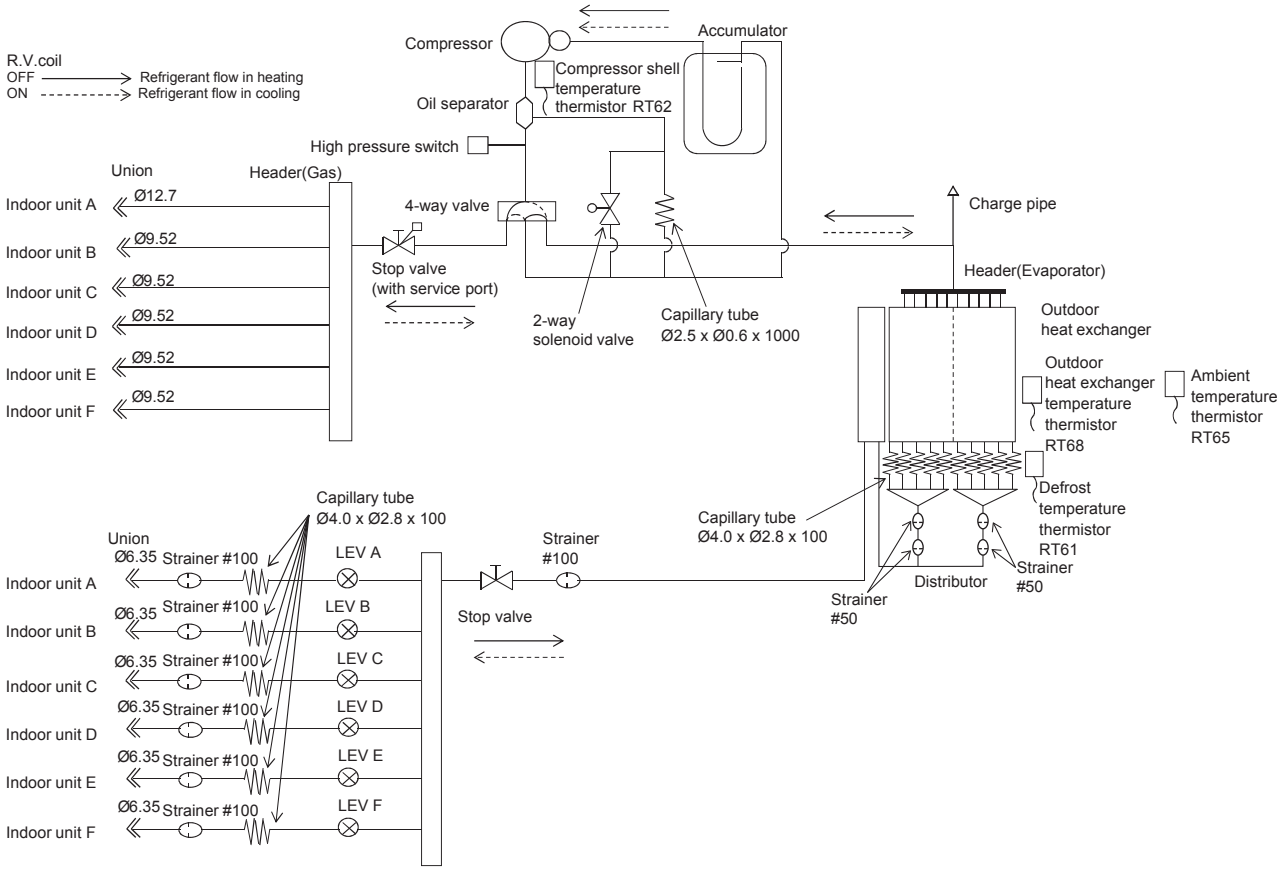
MXZ-5E102VA

UNIT: mm



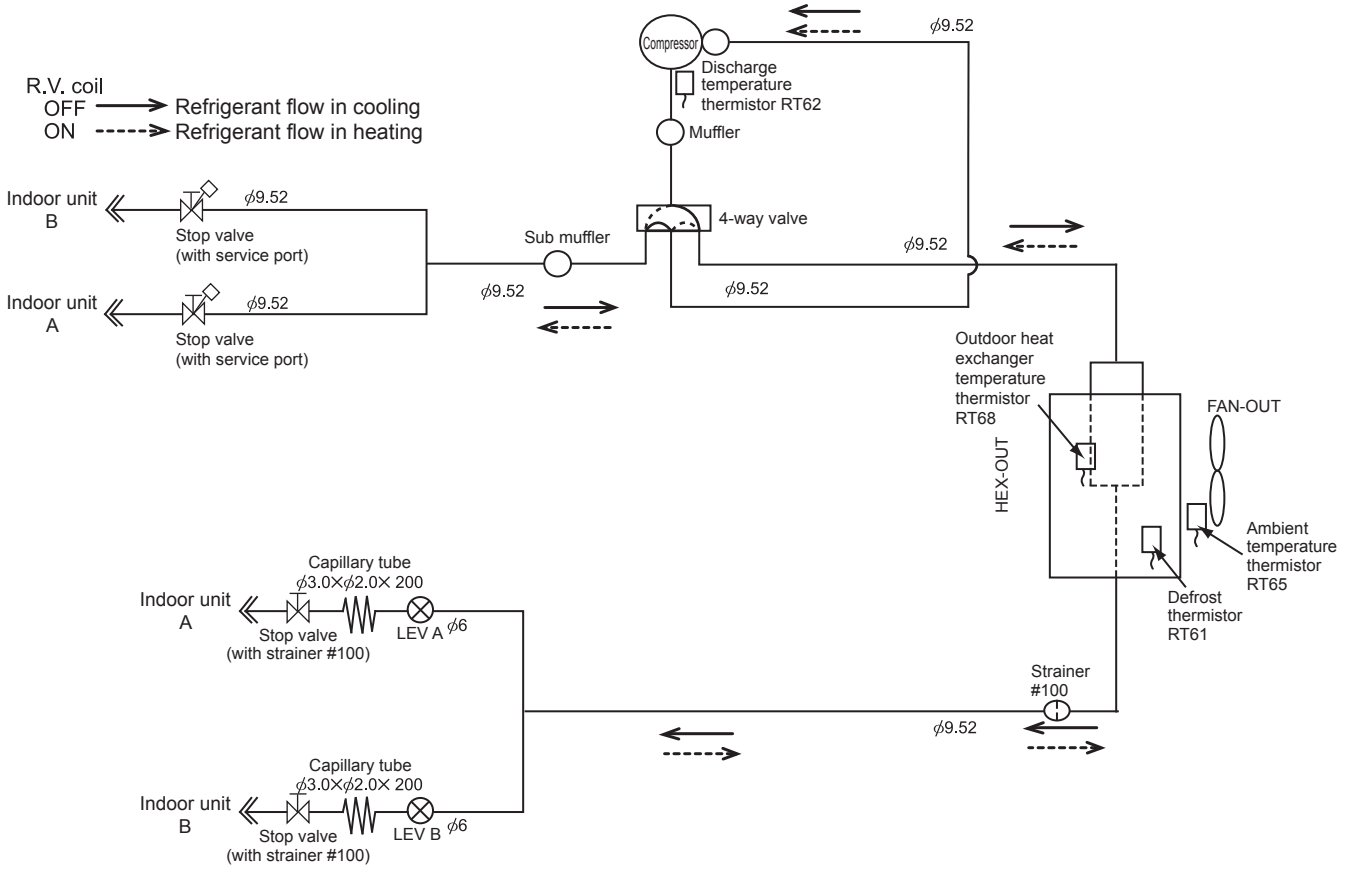
MXZ-6D122VA

Unit: mm



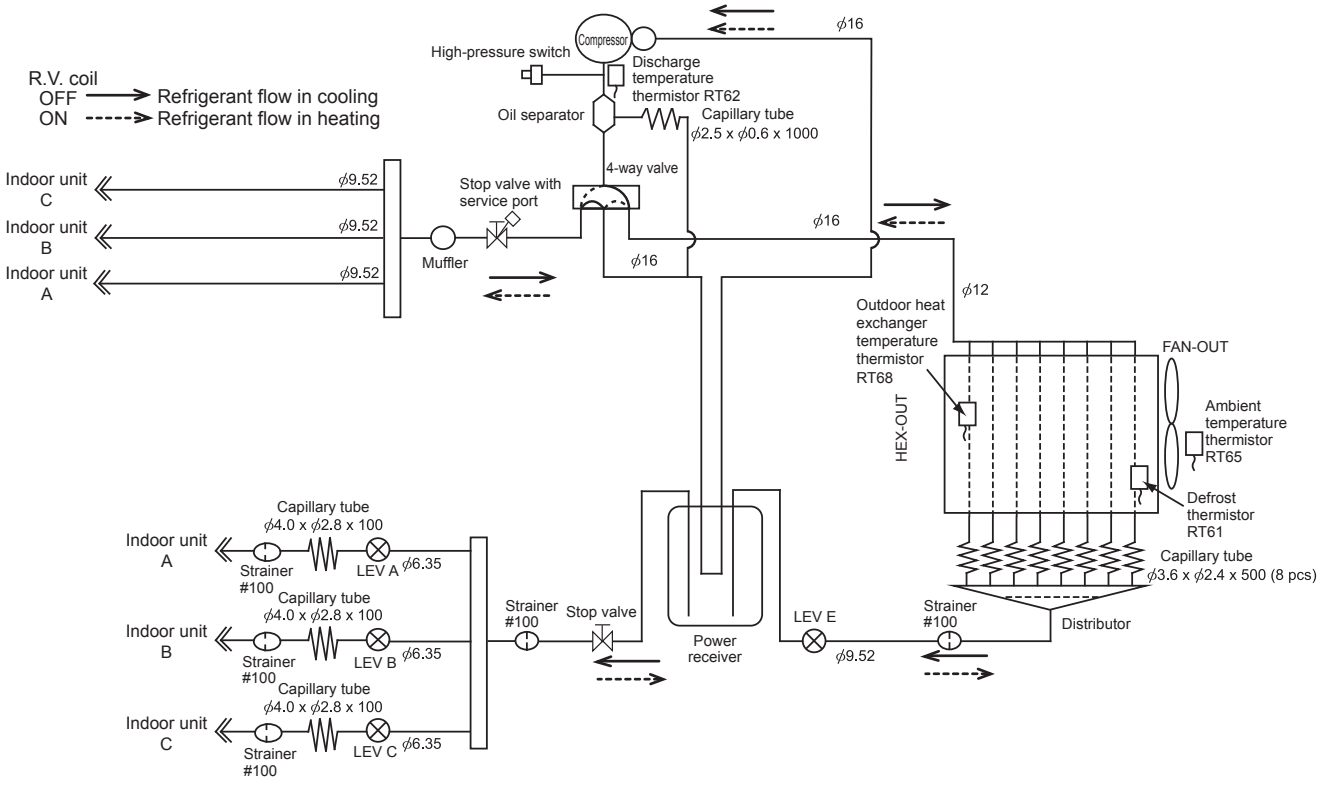
MXZ-2DM40VA

Unit: mm



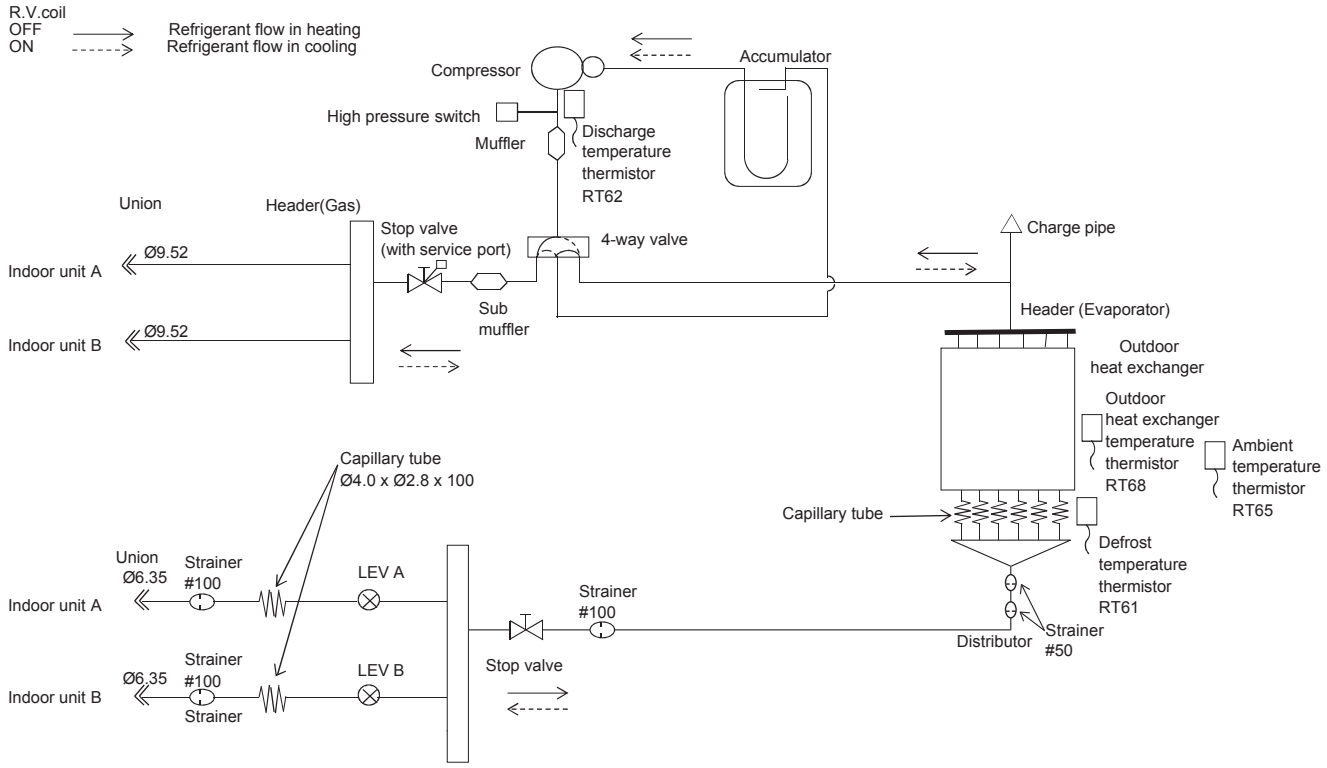
MXZ-3DM50VA

Unit: mm



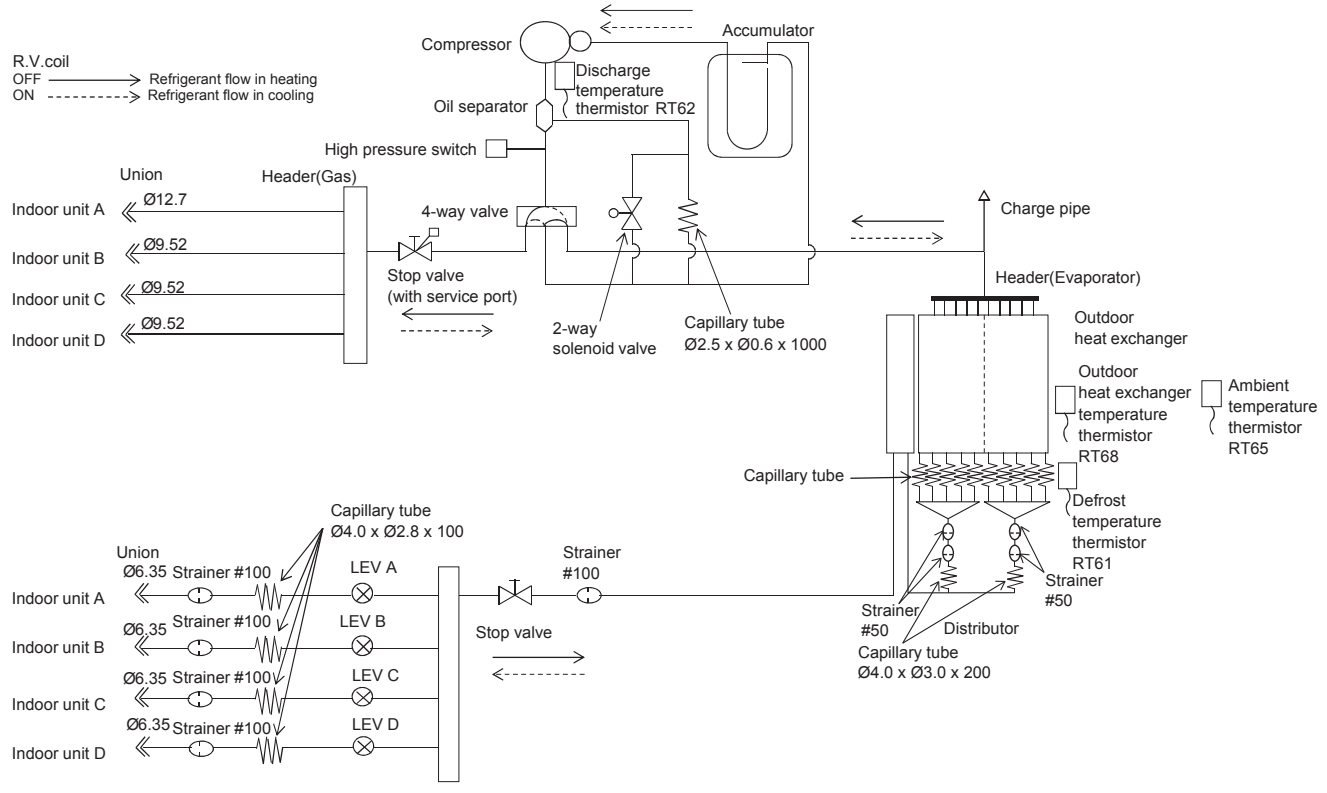
MXZ-2E53VAHZ

UNIT: mm



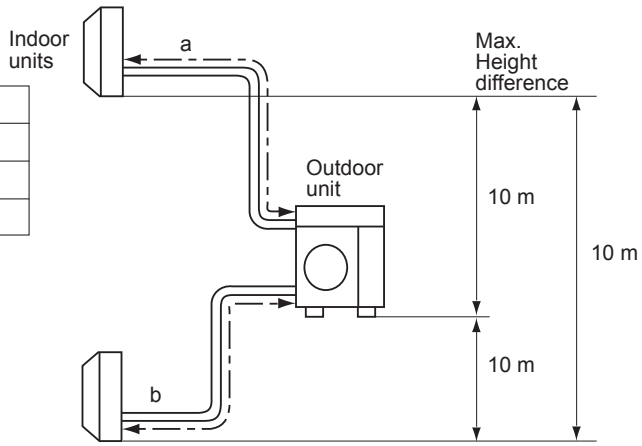
MXZ-4E83VAHZ

UNIT: mm



C.4.4.2 Refrigerant Pipe Length and Pipe Size

MXZ-2D33VA



MAX REFRIGERANT PIPING LENGTH

Piping length each indoor unit (a, b)	15 m
Total piping length (a+b)	20 m
Bending point for each unit	15
Total bending point	20

✻It is irrelevant which unit is higher.

ADDITIONAL REFRIGERANT CHARGE

Outdoor unit precharged (g)	Refrigerant piping length (one way, 2 unit total)
	20 m
1,150	0

WHEN CONNECTING TO MFZ-KJ SERIES INDOOR UNIT

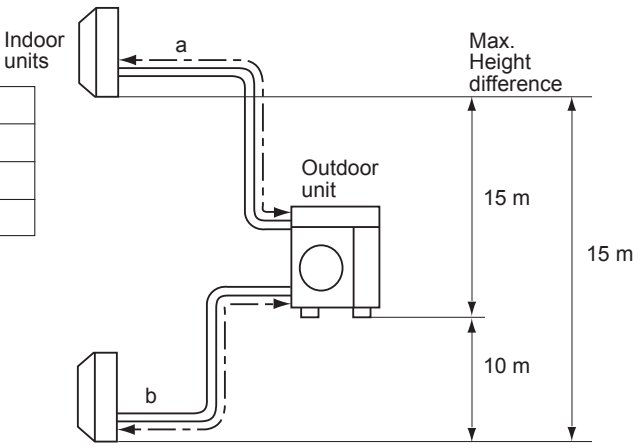
No. of MFZ-KJ indoor units	Refrigerant piping length (L)	Maximum amount of refrigerant
	~ 20 m	
None	Charge-less (1,150 g)	1,150 g
1 unit	100 g additional charge (1,250 g)	1,250 g
2 units	Not available	-

UNIT: mm (inch)

● Refrigerant pipe diameter is different according to indoor unit to be connected. When using extension pipes, refer to the right table.

Outdoor unit union diameter		
For		
Indoor unit A	Liquid	6.35(1/4)
	Gas	9.52(3/8)
Indoor unit B	Liquid	6.35(1/4)
	Gas	9.52(3/8)

MXZ-2D42VA2 MXZ-2D53VA2 MXZ-2D53VAH2



MAX REFRIGERANT PIPING LENGTH

Piping length each indoor unit (a, b)	20 m
Total piping length (a+b)	30 m
Bending point for each unit	20
Total bending point	30

✻It is irrelevant which unit is higher.

ADDITIONAL REFRIGERANT CHARGE

Outdoor unit precharged (g)	Refrigerant piping length (one way, 2 unit total)	
	20 m	30 m
1,300	0	200

Calculation : Xg = 20 g/m x (Refrigerant piping length(m) - 20)

WHEN CONNECTING TO MFZ-KJ SERIES INDOOR UNIT

No. of MFZ-KJ indoor units	Refrigerant piping length (L)		Maximum amount of refrigerant
	~ 20 m	~ 30 m	
None	Charge-less (1,300 g)	(L-20) x 20 g/m	1,500 g
1 unit	100 g additional charge (1,400 g)	100 g + (L-20) x 20 g/m	1,600 g
2 units	200 g additional charge (1,500 g)	200 g + (L-20) x 20 g/m	1,700 g

UNIT: mm (inch)

● Refrigerant pipe diameter is different according to indoor unit to be connected. When using extension pipes, refer to the right table.
● When diameter of refrigerant pipe is different from that of outdoor unit union, use optional Different-diameter pipe.

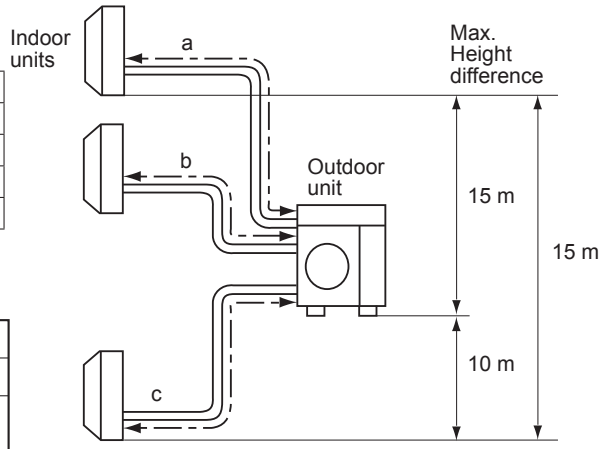
Outdoor unit union diameter		
For		
Indoor unit A	Liquid	6.35(1/4)
	Gas	9.52(3/8)
Indoor unit B	Liquid	6.35(1/4)
	Gas	9.52(3/8)

MXZ-3E54VA MXZ-3E68VA

MAX REFRIGERANT PIPING LENGTH

	3E54	3E68
Piping length each indoor unit (a, b, c)	25 m	25 m
Total piping length (a+b+c)	50 m	60 m
Bending point for each unit	25	25
Total bending point	50	60

✻It is irrelevant which unit is higher.



ADDITIONAL REFRIGERANT CHARGE

Outdoor unit precharged (g)	Refrigerant piping length (one way, 3 unit total)		
	40 m	50 m	60 m
2,700	0	200	400

Calculation : Xg = 20 g/m x (Refrigerant piping length (m) - 40)

WHEN CONNECTING TO MFZ-KJ SERIES INDOOR UNIT
MXZ-3E54VA

No. of MFZ-KJ indoor units	Refrigerant piping length (L)		Maximum amount of refrigerant
	~ 40 m	~ 50 m	
None	Charge-less (2,700 g)	(L-40) x 20 g/m	2,900 g
1 unit	100 g additional charge (2,800 g)	100 g + (L-40) x 20 g/m	3,000 g
2 units	200 g additional charge (2,900 g)	200 g + (L-40) x 20 g/m	3,100 g
3 units	300 g additional charge (3,000 g)	300 g + (L-40) x 20 g/m	3,200 g

WHEN CONNECTING TO MFZ-KJ SERIES INDOOR UNIT
MXZ-3E68VA

No. of MFZ-KJ indoor units	Refrigerant piping length (L)		Maximum amount of refrigerant
	~ 40 m	~ 60 m	
None	Charge-less (2,700 g)	(L-40) x 20 g/m	3,100 g
1 unit	100 g additional charge (2,800 g)	100 g + (L-40) x 20 g/m	3,200 g
2 units	200 g additional charge (2,900 g)	200 g + (L-40) x 20 g/m	3,300 g
3 units	300 g additional charge (3,000 g)	300 g + (L-40) x 20 g/m	3,400 g

- Refrigerant pipe diameter is different according to indoor unit to be connected. When using extension pipes, refer to the table below.
- When diameter of refrigerant pipe is different from that of outdoor unit union, use optional Different-diameter pipe.

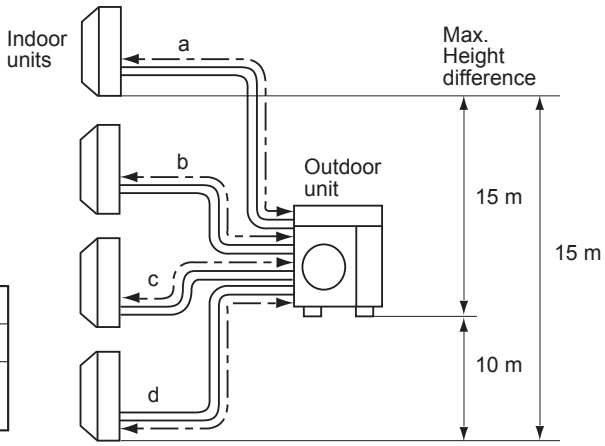
UNIT: mm (inch)

Outdoor unit union diameter		
For		
Indoor unit A	Liquid	6.35(1/4)
	Gas	9.52(3/8)
Indoor unit B	Liquid	6.35(1/4)
	Gas	9.52(3/8)
Indoor unit C	Liquid	6.35(1/4)
	Gas	9.52(3/8)

MXZ-4E72VA

MAX REFRIGERANT PIPING LENGTH

Piping length each indoor unit (a, b, c, d)	25 m
Total piping length (a+b+c+d)	60 m
Bending point for each unit	25
Total bending point	60



✻It is irrelevant which unit is higher.

ADDITIONAL REFRIGERANT CHARGE

Outdoor unit precharged (g)	Refrigerant piping length (one way, 4 unit total)		
	40 m	50 m	60 m
2,700	0	200	400

Calculation : Xg = 20 g/m x (Refrigerant piping length (m) - 40)

WHEN CONNECTING TO MFZ-KJ SERIES INDOOR UNIT

No. of MFZ-KJ indoor units	Refrigerant piping length (L)		Maximum amount of refrigerant
	~ 40 m	~ 60 m	
None	Charge-less (2,700 g)	(L-40) x 20 g/m	3,100 g
1 unit	100 g additional charge (2,800 g)	100 g + (L-40) x 20 g/m	3,200 g
2 units	200 g additional charge (2,900 g)	200 g + (L-40) x 20 g/m	3,300 g
3 units	300 g additional charge (3,000 g)	300 g + (L-40) x 20 g/m	3,400 g
4 units	400 g additional charge (3,100 g)	400 g + (L-40) x 20 g/m	3,500 g

- Refrigerant pipe diameter is different according to indoor unit to be connected. When using extension pipes, refer to the table below.
- When diameter of refrigerant pipe is different from that of outdoor unit union, use optional Different-diameter pipe.

UNIT: mm (inch)

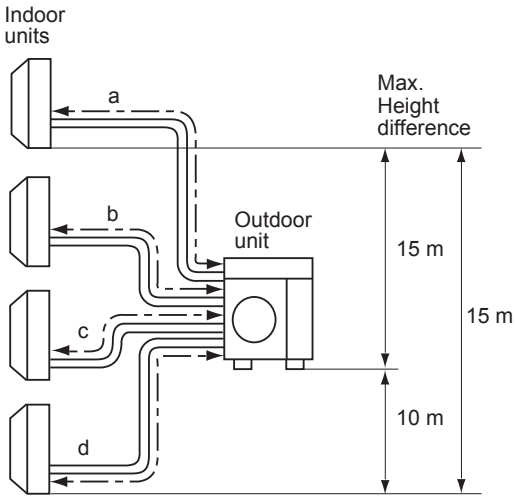
Outdoor unit union diameter			Outdoor unit union diameter		
For			For		
Indoor unit A	Liquid	6.35(1/4)	Indoor unit C	Liquid	6.35(1/4)
	Gas	12.7(1/2)		Gas	9.52(3/8)
Indoor unit B	Liquid	6.35(1/4)	Indoor unit D	Liquid	6.35(1/4)
	Gas	9.52(3/8)		Gas	9.52(3/8)

MXZ-4E83VA

MAX REFRIGERANT PIPING LENGTH

Piping length each indoor unit (a, b, c, d)	25 m
Total piping length (a+b+c+d)	70 m
Bending point for each unit	25
Total bending point	70

✻It is irrelevant which unit is higher.



ADDITIONAL REFRIGERANT CHARGE

Outdoor unit precharged (g)	Refrigerant piping length (one way, 4 unit total)			
	25 m	40 m	55 m	70 m
2,990	0	300	600	900

Calculation : Xg = 20 g/m x (Refrigerant piping length (m) - 25)

- Refrigerant pipe diameter is different according to indoor unit to be connected. When using extension pipes, refer to the tables below.
- When diameter of refrigerant pipe is different from that of outdoor unit union, use optional Different-diameter pipe. For further information on Different-diameter pipe.

UNIT: mm (inch)

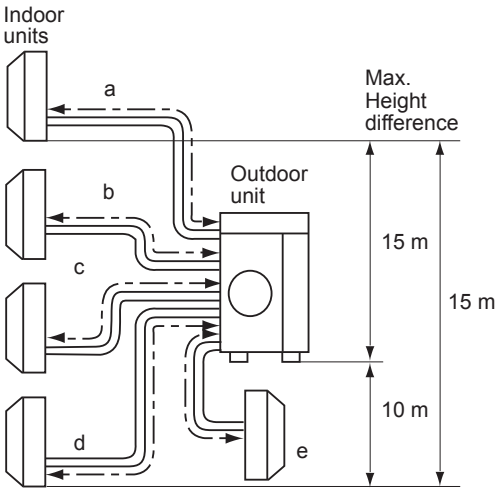
Outdoor unit union diameter			Outdoor unit union diameter		
For			For		
Indoor unit A	Liquid	6.35(1/4)	Indoor unit C	Liquid	6.35(1/4)
	Gas	12.7(1/2)		Gas	9.52(3/8)
Indoor unit B	Liquid	6.35(1/4)	Indoor unit D	Liquid	6.35(1/4)
	Gas	9.52(3/8)		Gas	9.52(3/8)

MXZ-5E102VA

MAX REFRIGERANT PIPING LENGTH

Piping length each indoor unit (a, b, c, d,e)	25 m
Total piping length (a+b+c+d+e)	80 m
Bending point for each unit	25
Total bending point	80

✻It is irrelevant which unit is higher.



ADDITIONAL REFRIGERANT CHARGE

Outdoor unit precharged (g)	Refrigerant piping length (one way, 5 unit total)				
	0 m	20 m	40 m	60 m	80 m
2,990	0	400	800	1,200	1,600

Calculation : Xg = 20 g/m x (Refrigerant piping length (m) - 0)

- Refrigerant pipe diameter is different according to indoor unit to be connected. When using extension pipes, refer to the tables below.
- When diameter of refrigerant pipe is different from that of outdoor unit union, use optional Different-diameter pipe. For further information on Different-diameter pipe.

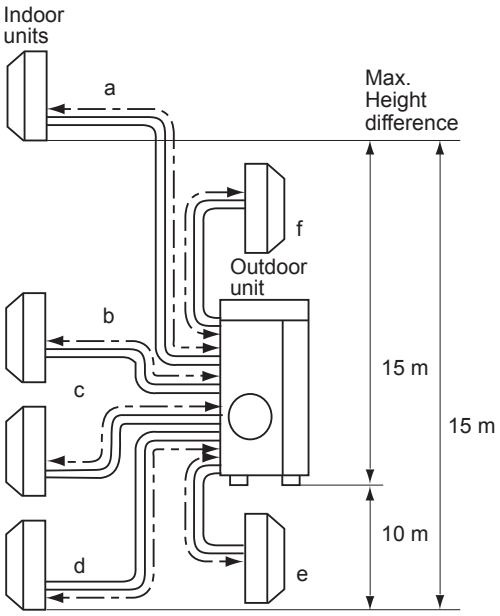
UNIT: mm (inch)

Outdoor unit union diameter			Outdoor unit union diameter		
For			For		
Indoor unit A	Liquid	6.35(1/4)	Indoor unit D	Liquid	6.35(1/4)
	Gas	12.7(1/2)		Gas	9.52(3/8)
Indoor unit B	Liquid	6.35(1/4)	Indoor unit E	Liquid	6.35(1/4)
	Gas	9.52(3/8)		Gas	9.52(3/8)
Indoor unit C	Liquid	6.35(1/4)			
	Gas	9.52(3/8)			

MXZ-6D122VA

MAX REFRIGERANT PIPING LENGTH

Piping length each indoor unit (a, b, c, d, e)	25 m
Total piping length (a+b+c+d+e)	80 m
Bending point for each unit	25
Total bending point	80



✻It is irrelevant which unit is higher.

ADDITIONAL REFRIGERANT CHARGE

Outdoor unit precharged (g)	Refrigerant piping length (one way, 5 unit total)				
	40 m	50 m	60 m	70 m	80 m
4,000	200	400	600	800	1000

Calculation : Xg = 20 g/m x (Refrigerant piping length (m) - 30)

- Refrigerant pipe diameter is different according to indoor unit to be connected. When using extension pipes, refer to the tables below.
- When diameter of refrigerant pipe is different from that of outdoor unit union, use optional Different-diameter pipe. For further information on Different-diameter pipe.

UNIT: mm (inch)

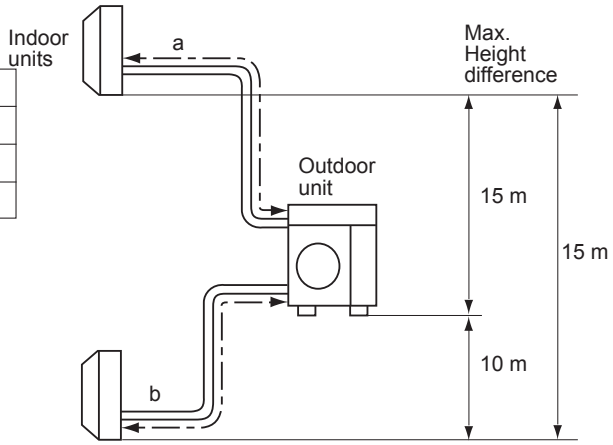
Outdoor unit union diameter			Outdoor unit union diameter		
For			For		
Indoor unit A	Liquid	6.35(1/4)	Indoor unit D	Liquid	6.35(1/4)
	Gas	12.7(1/2)		Gas	9.52(3/8)
Indoor unit B	Liquid	6.35(1/4)	Indoor unit E	Liquid	6.35(1/4)
	Gas	9.52(3/8)		Gas	9.52(3/8)
Indoor unit C	Liquid	6.35(1/4)	Indoor unit F	Liquid	6.35(1/4)
	Gas	9.52(3/8)		Gas	9.52(3/8)

MXZ-2DM40VA

MAX REFRIGERANT PIPING LENGTH

Piping length each indoor unit (a, b)	20 m
Total piping length (a+b)	30 m
Bending point for each unit	20
Total bending point	30

✻It is irrelevant which unit is higher.



ADDITIONAL REFRIGERANT CHARGE

Outdoor unit precharged (g)	Refrigerant piping length (one way, 2 unit total)	
	20 m	30 m
950	0	200

Calculation : Xg = 20 g/m x (Refrigerant piping length (m) - 20)

- Refrigerant pipe diameter is different according to indoor unit to be connected. When using extension pipes, refer to the right table.
- When diameter of refrigerant pipe is different from that of outdoor unit union, use optional Different-diameter pipe.

UNIT: mm (inch)

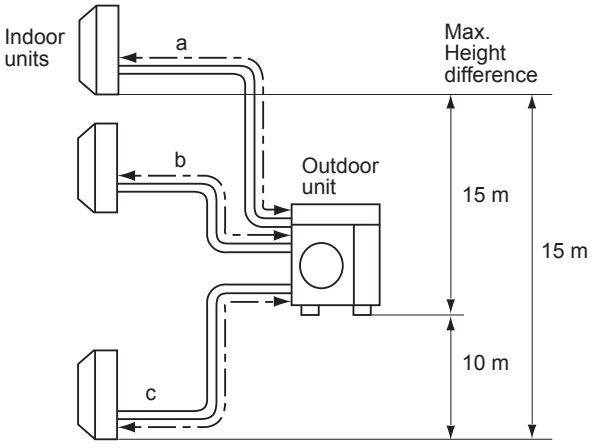
Outdoor unit union diameter		
For		
Indoor unit A	Liquid	6.35(1/4)
	Gas	9.52(3/8)
Indoor unit B	Liquid	6.35(1/4)
	Gas	9.52(3/8)

MXZ-3DM50VA

MAX REFRIGERANT PIPING LENGTH

Piping length each indoor unit (a, b, c)	25 m
Total piping length (a+b+c)	50 m
Bending point for each unit	25
Total bending point	50

✻It is irrelevant which unit is higher.



ADDITIONAL REFRIGERANT CHARGE

Outdoor unit precharged (g)	Refrigerant piping length (one way, 3 unit total)	
	40 m	50 m
2,700	0	200

Calculation : Xg = 20 g/m x (Refrigerant piping length (m) - 40)

- Refrigerant pipe diameter is different according to indoor unit to be connected. When using extension pipes, refer to the right table.
- When diameter of refrigerant pipe is different from that of outdoor unit union, use optional Different-diameter pipe.

UNIT: mm (inch)

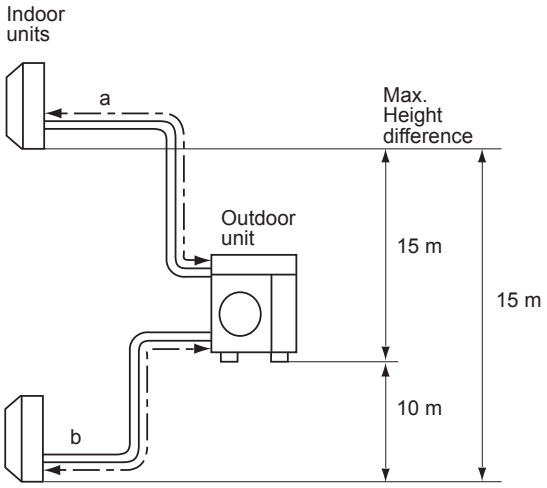
Outdoor unit union diameter		
For		
Indoor unit A	Liquid	6.35(1/4)
	Gas	9.52(3/8)
Indoor unit B	Liquid	6.35(1/4)
	Gas	9.52(3/8)
Indoor unit C	Liquid	6.35(1/4)
	Gas	9.52(3/8)

MXZ-2E53VAHZ

MAX REFRIGERANT PIPING LENGTH

Piping length each indoor unit (a, b)	20 m
Total piping length (a+b)	30 m
Bending point for each unit	20
Total bending point	30

✻It is irrelevant which unit is higher.



ADDITIONAL REFRIGERANT CHARGE

Outdoor unit precharged (g)	Refrigerant piping length (one way, 2 unit total)		
	20 m	25 m	30 m
2,000	0	100	200

Calculation : Xg = 20 g/m x (Refrigerant piping length (m) - 20)

- Refrigerant pipe diameter is different according to indoor unit to be connected. When using extension pipes, refer to the tables below.
- When diameter of refrigerant pipe is different from that of outdoor unit union, use optional Different-diameter pipe. For further information on Different-diameter pipe.

UNIT: mm (inch)

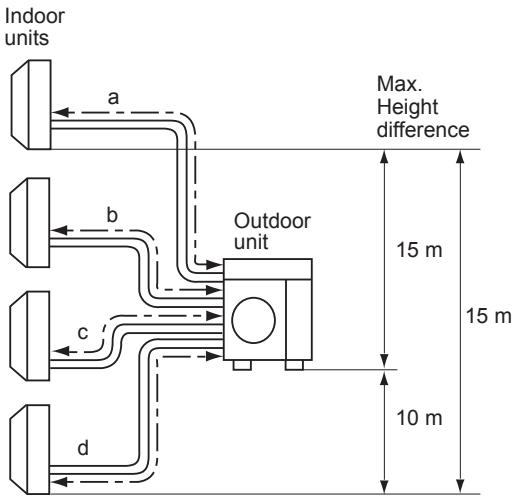
Outdoor unit union diameter		
For		
Indoor unit A	Liquid	6.35(1/4)
	Gas	9.52(3/8)
Indoor unit B	Liquid	6.35(1/4)
	Gas	9.52(3/8)

MXZ-4E83VAHZ

MAX REFRIGERANT PIPING LENGTH

Piping length each indoor unit (a, b, c, d)	25 m
Total piping length (a+b+c+d)	70 m
Bending point for each unit	25
Total bending point	70

✻It is irrelevant which unit is higher.



ADDITIONAL REFRIGERANT CHARGE

Outdoor unit precharged (g)	Refrigerant piping length (one way, 4 unit total)			
	25 m	40 m	55 m	70 m
3,900	0	300	600	900

Calculation : Xg = 20 g/m x (Refrigerant piping length (m) - 25)

- Refrigerant pipe diameter is different according to indoor unit to be connected. When using extension pipes, refer to the tables below.
- When diameter of refrigerant pipe is different from that of outdoor unit union, use optional Different-diameter pipe. For further information on Different-diameter pipe.

UNIT: mm (inch)

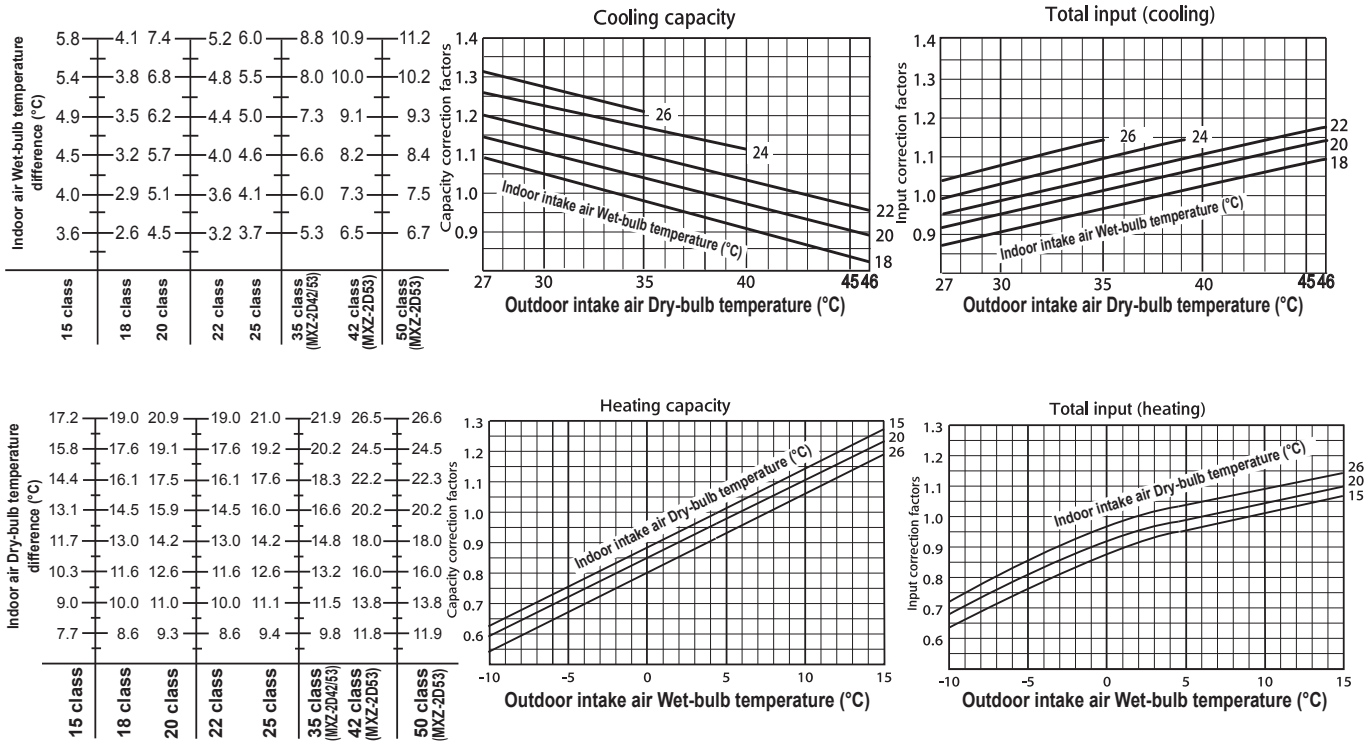
Outdoor unit union diameter			Outdoor unit union diameter		
For			For		
Indoor unit A	Liquid	6.35(1/4)	Indoor unit C	Liquid	6.35(1/4)
	Gas	12.7(1/2)		Gas	9.52(3/8)
Indoor unit B	Liquid	6.35(1/4)	Indoor unit D	Liquid	6.35(1/4)
	Gas	9.52(3/8)		Gas	9.52(3/8)

C.4.5 PERFORMANCE CURVES

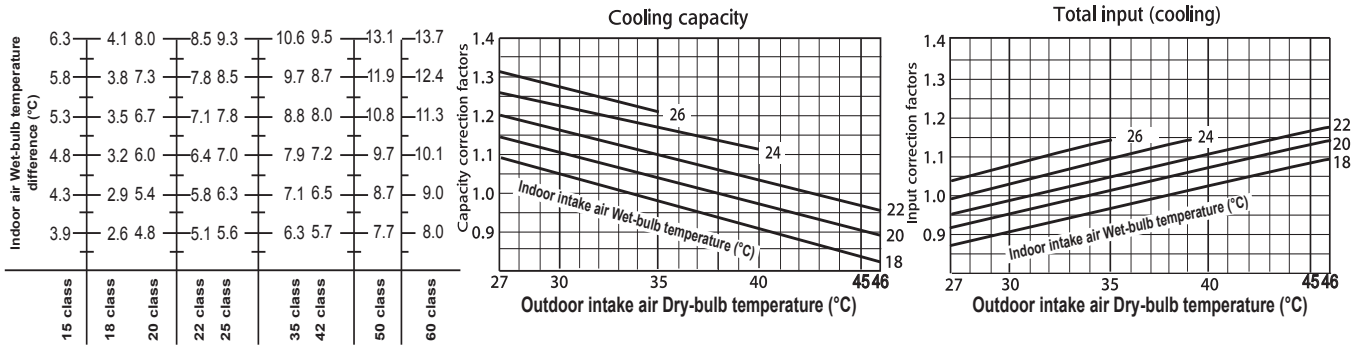
C.4.5.1 Inverter Heat Pump

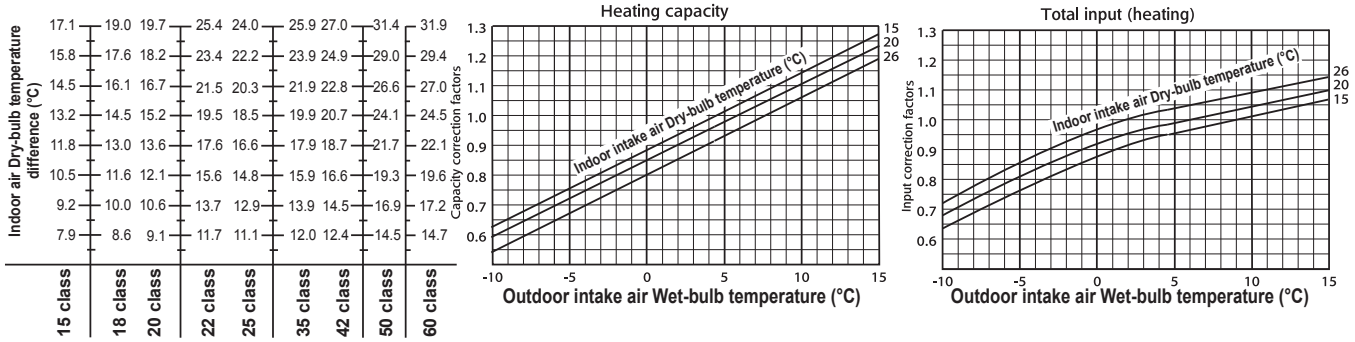
CAPACITY AND THE INPUT CURVES

MXZ-2D33VA MXZ-2D42VA2
MXZ-2D53VA2 MXZ-2D53VAH2

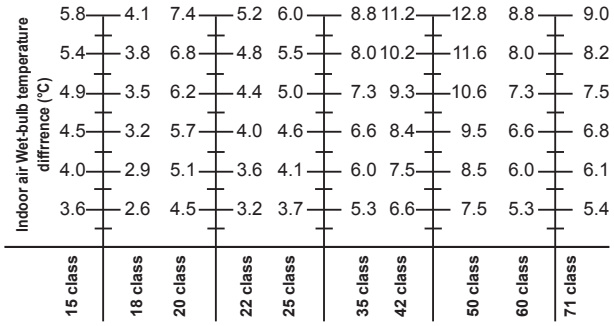


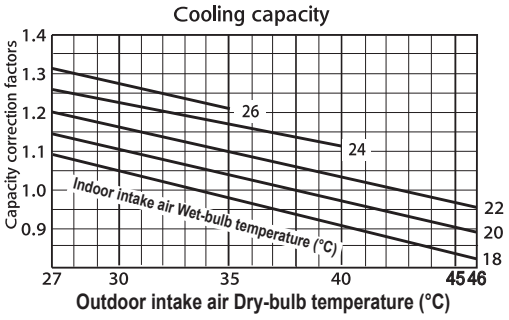
MXZ-3E54VA MXZ-3E68VA MXZ-4E72VA

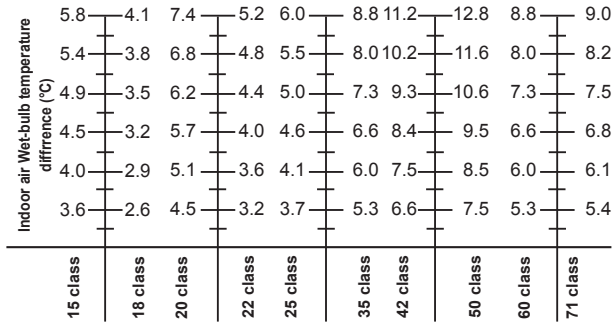


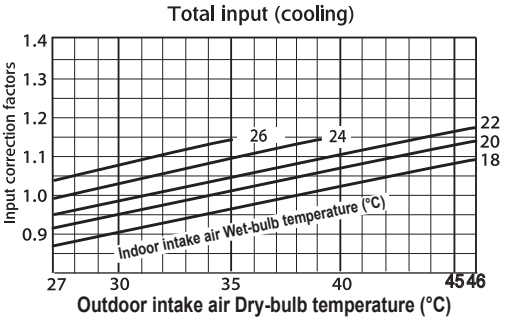


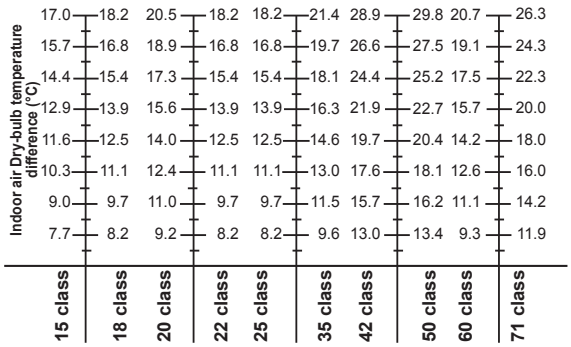
MXZ-4E83VA MXZ-5E102VA MXZ-4E83VAHZ

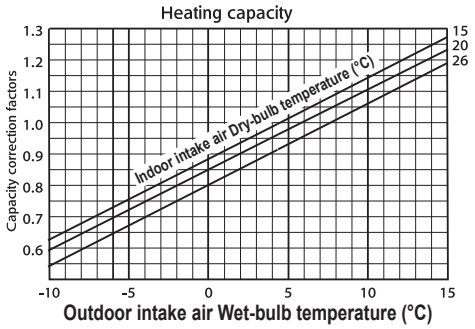


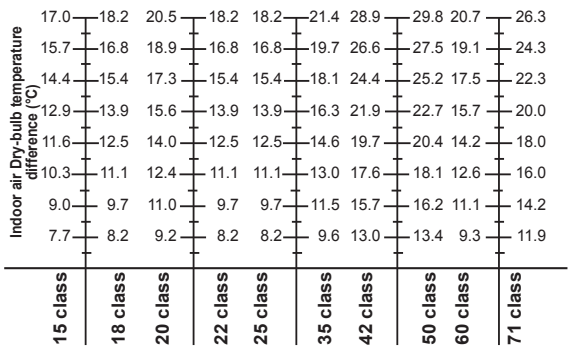


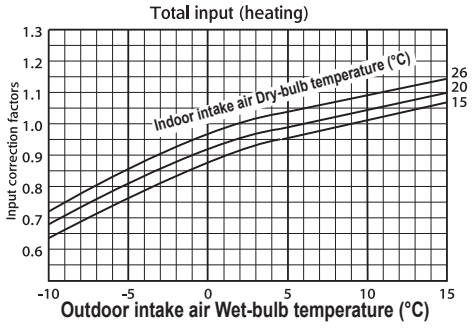






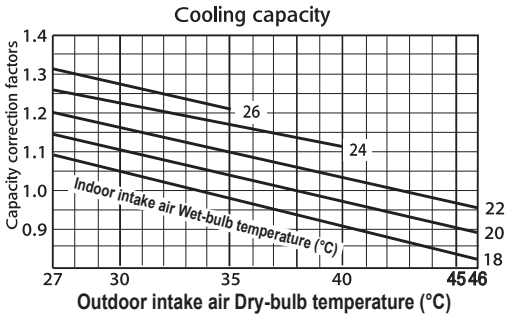




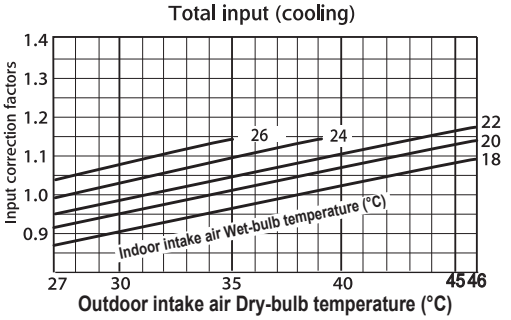


MXZ-6D122VA

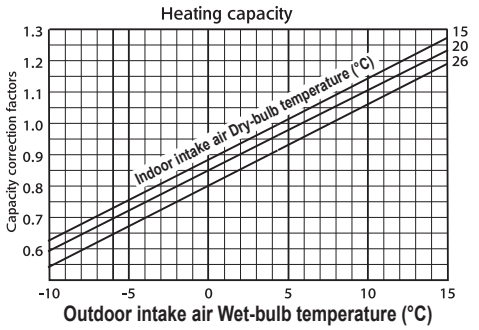
Indoor air Wet-bulb temperature diffrrence (°C)	15 class	18 class	20 class	22 class	25 class	35 class	42 class	50 class	60 class	71 class
5.8	4.1	7.4	5.2	6.0	8.8	11.2	12.8	8.8	9.0	
5.4	3.8	6.8	4.8	5.5	8.0	10.2	11.6	8.0	8.2	
4.9	3.5	6.2	4.4	5.0	7.3	9.3	10.6	7.3	7.5	
4.5	3.2	5.7	4.0	4.6	6.6	8.4	9.5	6.6	6.8	
4.0	2.9	5.1	3.6	4.1	6.0	7.5	8.5	6.0	6.1	
3.6	2.6	4.5	3.2	3.7	5.3	6.6	7.5	5.3	5.4	



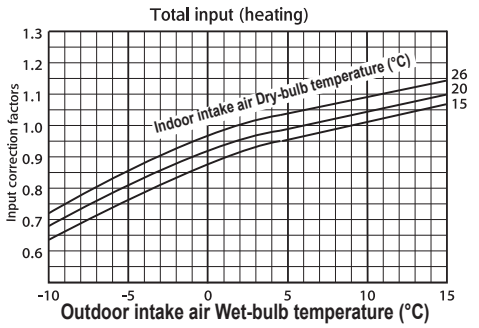
Indoor air Wet-bulb temperature diffrrence (°C)	15 class	18 class	20 class	22 class	25 class	35 class	42 class	50 class	60 class	71 class
5.8	4.1	7.4	5.2	6.0	8.8	11.2	12.8	8.8	9.0	
5.4	3.8	6.8	4.8	5.5	8.0	10.2	11.6	8.0	8.2	
4.9	3.5	6.2	4.4	5.0	7.3	9.3	10.6	7.3	7.5	
4.5	3.2	5.7	4.0	4.6	6.6	8.4	9.5	6.6	6.8	
4.0	2.9	5.1	3.6	4.1	6.0	7.5	8.5	6.0	6.1	
3.6	2.6	4.5	3.2	3.7	5.3	6.6	7.5	5.3	5.4	



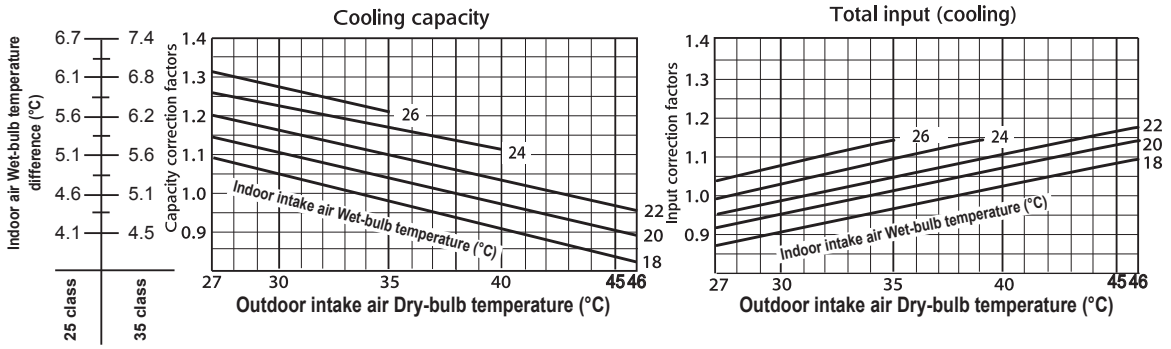
Indoor air Dry-bulb temperature difference (°C)	15 class	18 class	20 class	22 class	25 class	35 class	42 class	50 class	60 class	71 class
17.0	18.2	20.5	18.2	18.2	21.4	28.9	29.8	20.7	26.3	
15.7	16.8	18.9	16.8	16.8	19.7	26.6	27.5	19.1	24.3	
14.4	15.4	17.3	15.4	15.4	18.1	24.4	25.2	17.5	22.3	
12.9	13.9	15.6	13.9	13.9	16.3	21.9	22.7	15.7	20.0	
11.6	12.5	14.0	12.5	12.5	14.6	19.7	20.4	14.2	18.0	
10.3	11.1	12.4	11.1	11.1	13.0	17.6	18.1	12.6	16.0	
9.0	9.7	11.0	9.7	9.7	11.5	15.7	16.2	11.1	14.2	
7.7	8.2	9.2	8.2	8.2	9.6	13.0	13.4	9.3	11.9	

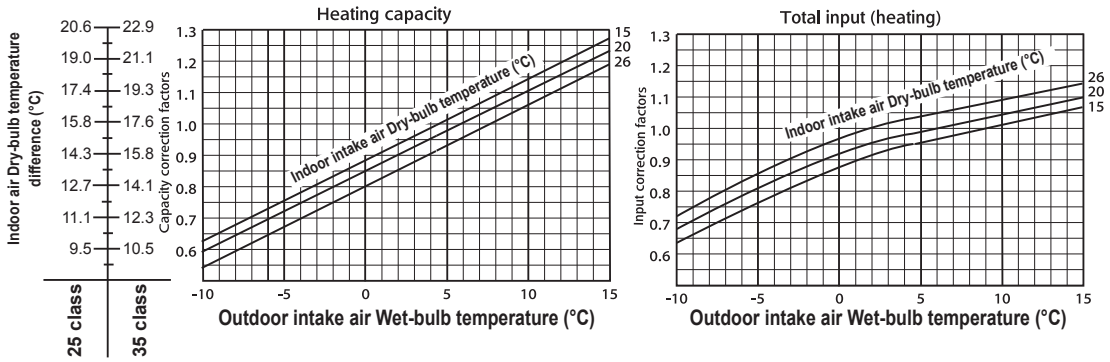


Indoor air Dry-bulb temperature difference (°C)	15 class	18 class	20 class	22 class	25 class	35 class	42 class	50 class	60 class	71 class
17.0	18.2	20.5	18.2	18.2	21.4	28.9	29.8	20.7	26.3	
15.7	16.8	18.9	16.8	16.8	19.7	26.6	27.5	19.1	24.3	
14.4	15.4	17.3	15.4	15.4	18.1	24.4	25.2	17.5	22.3	
12.9	13.9	15.6	13.9	13.9	16.3	21.9	22.7	15.7	20.0	
11.6	12.5	14.0	12.5	12.5	14.6	19.7	20.4	14.2	18.0	
10.3	11.1	12.4	11.1	11.1	13.0	17.6	18.1	12.6	16.0	
9.0	9.7	11.0	9.7	9.7	11.5	15.7	16.2	11.1	14.2	
7.7	8.2	9.2	8.2	8.2	9.6	13.0	13.4	9.3	11.9	

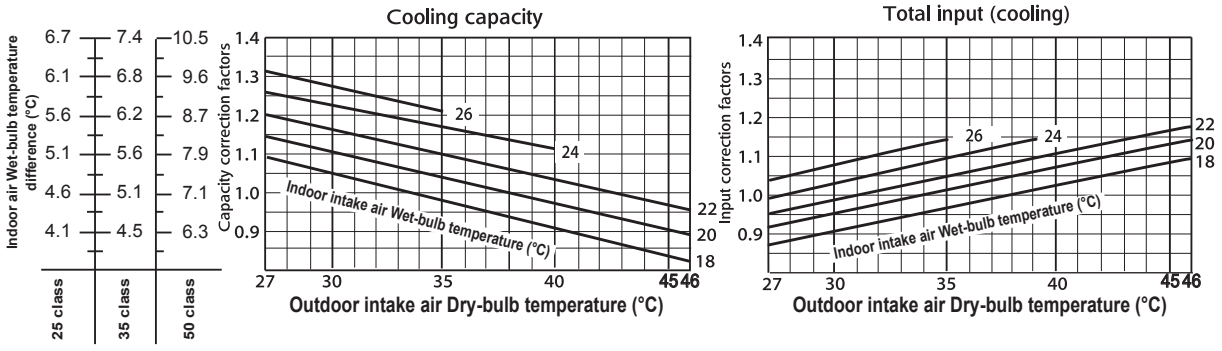


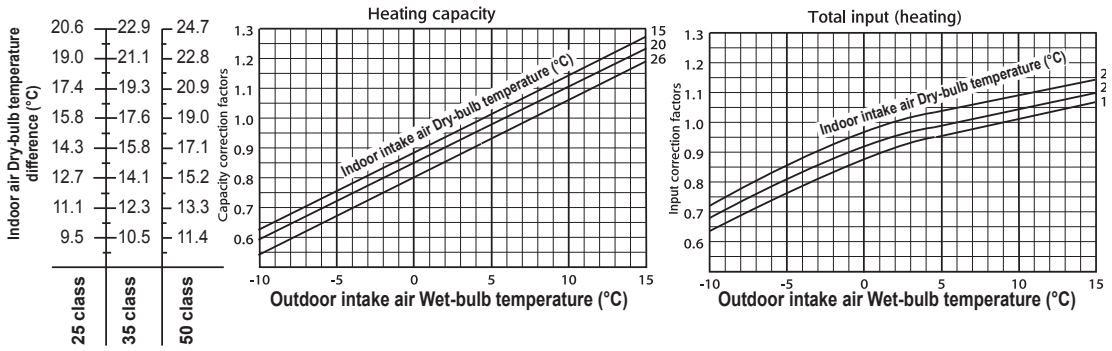
MXZ-2DM40VA



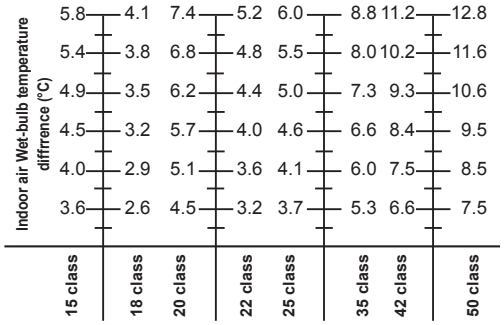


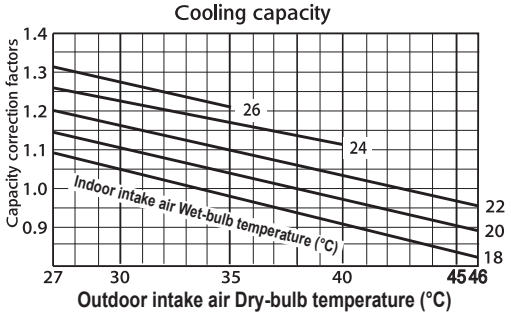
MXZ-3DM50VA

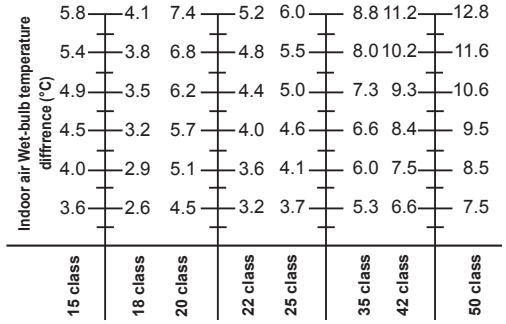


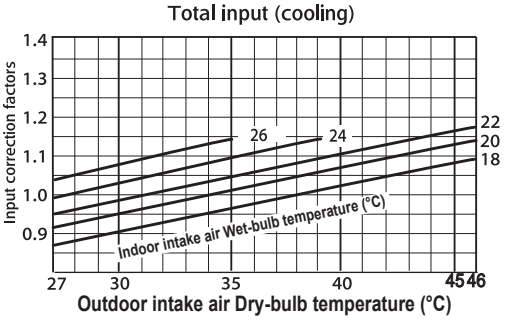


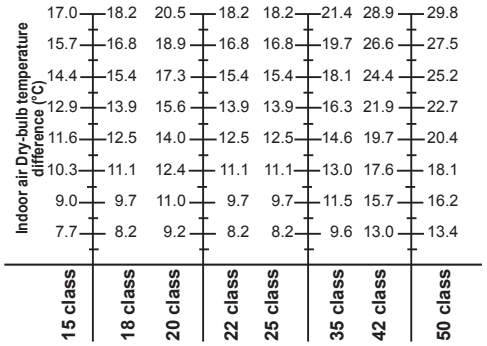
MXZ-2E53VAHZ

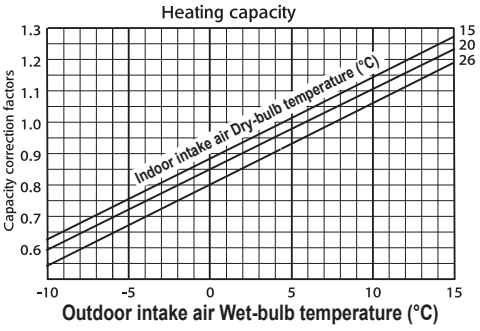


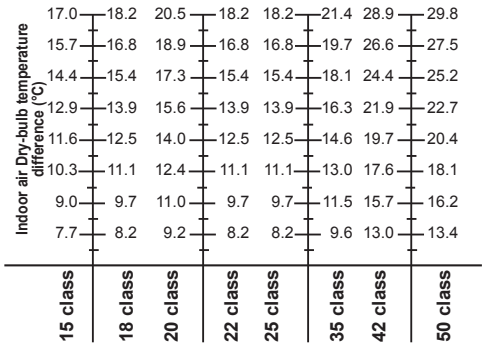


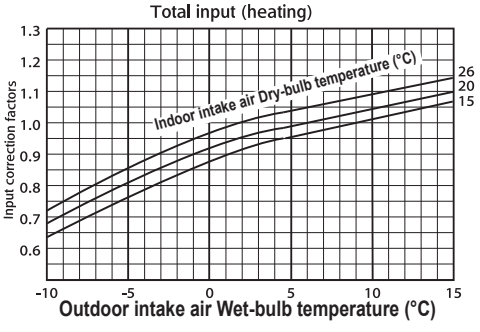






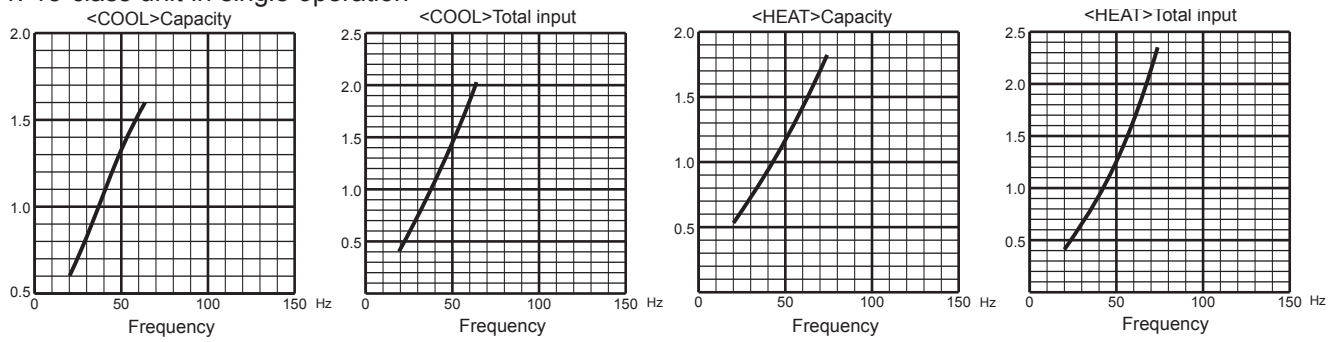




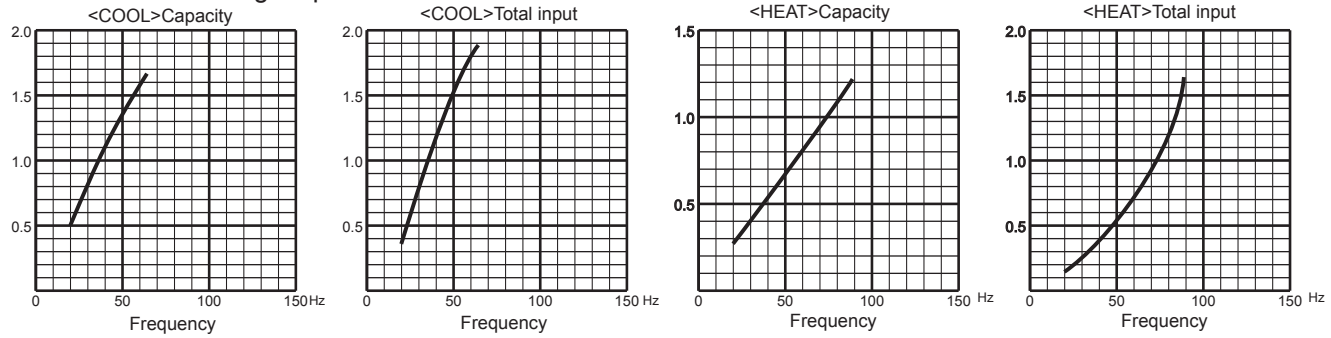


CAPACITY AND INPUT CORRECTION BY INVERTER OUTPUT FREQUENCY
MXZ-2D33VA

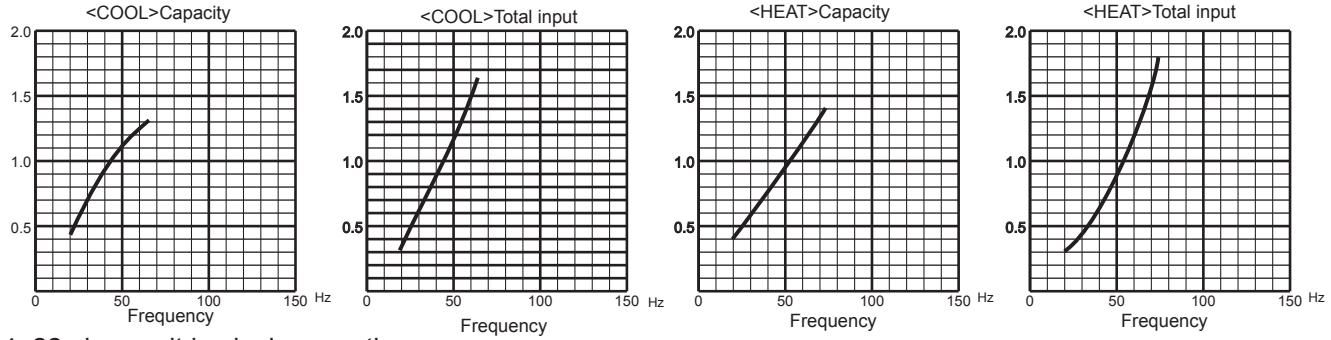
1. 15-class unit in single operation



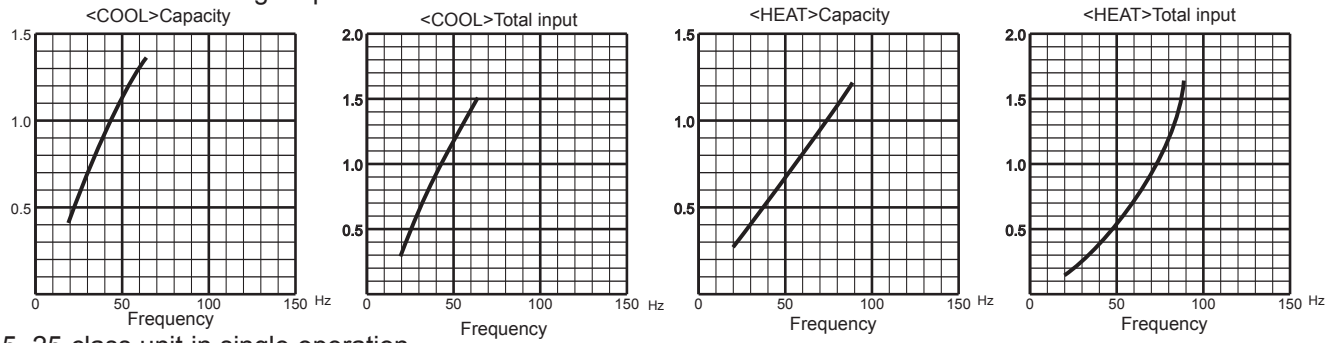
2. 18-class unit in single operation



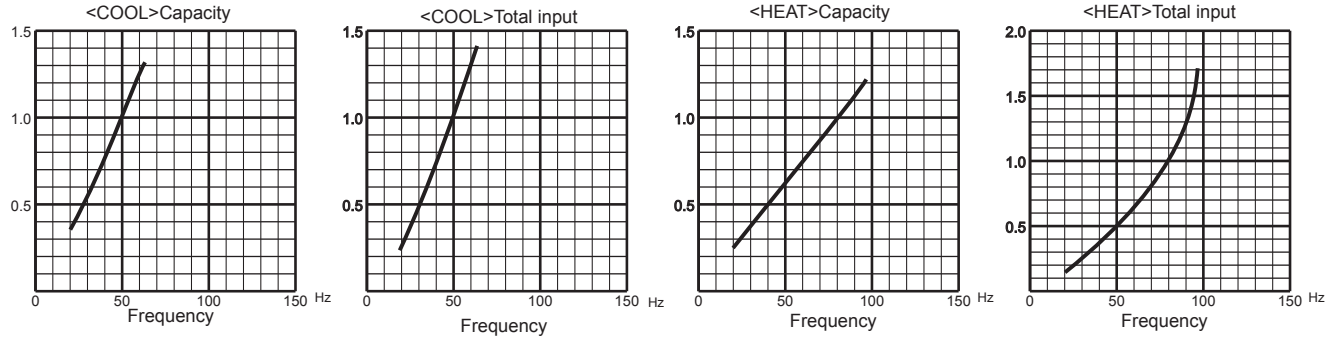
3. 20-class unit in single operation



4. 22-class unit in single operation

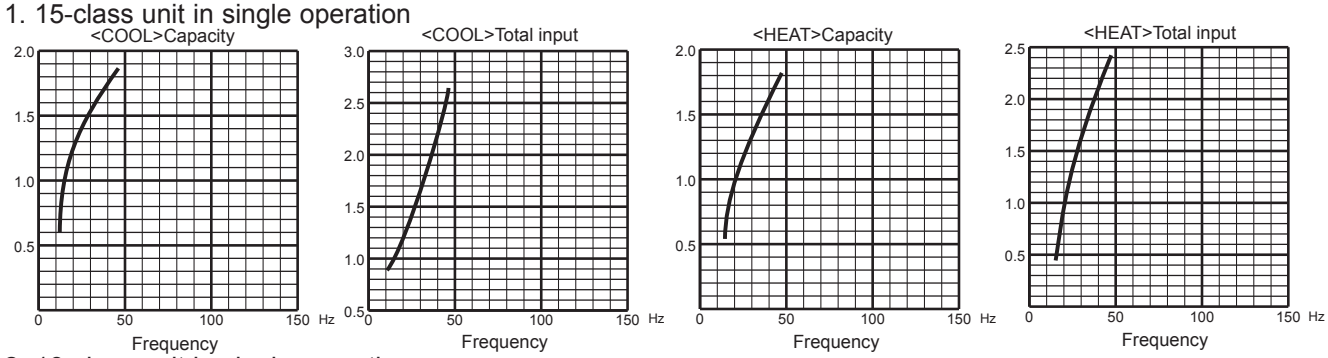


5. 25-class unit in single operation

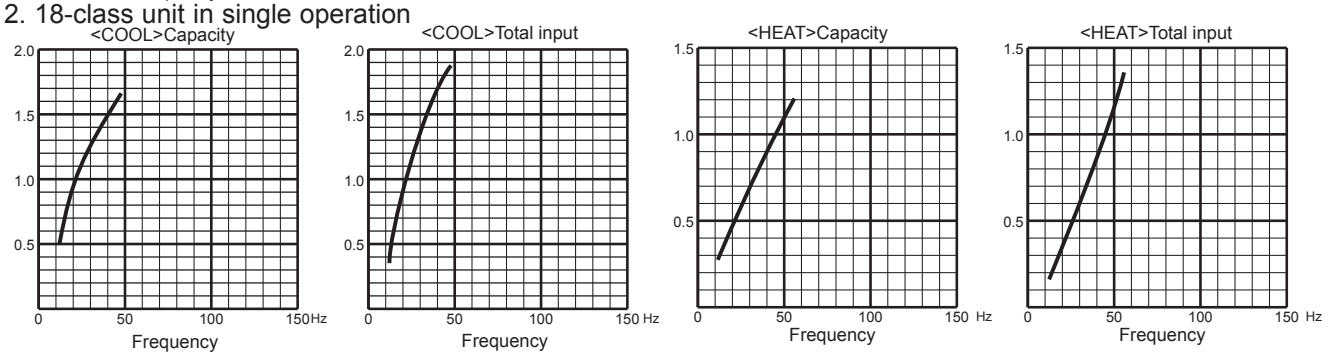


MXZ-2D42VA2 MXZ-2D53VA2 MXZ-2D53VAH2

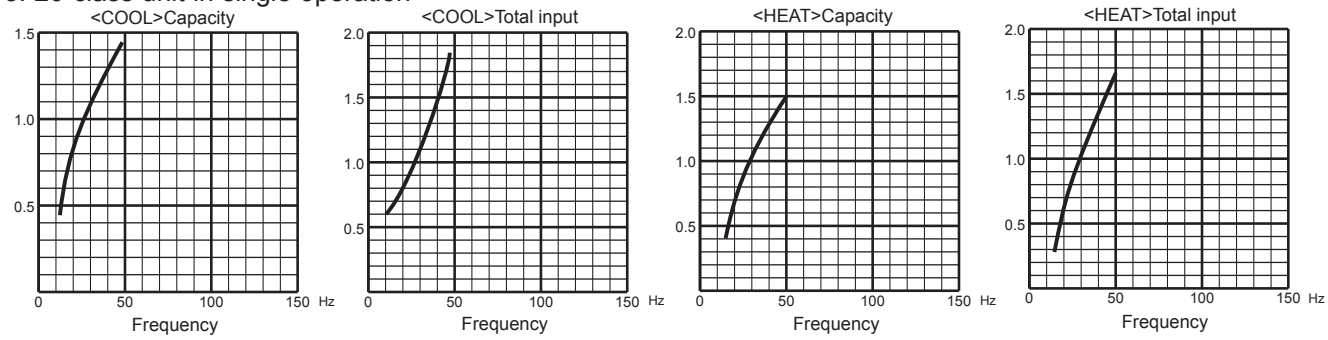
1. 15-class unit in single operation



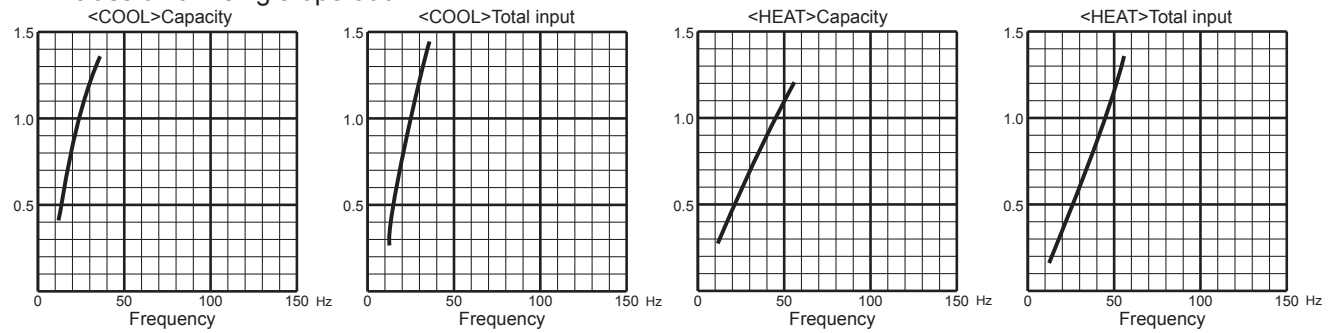
2. 18-class unit in single operation



3. 20-class unit in single operation

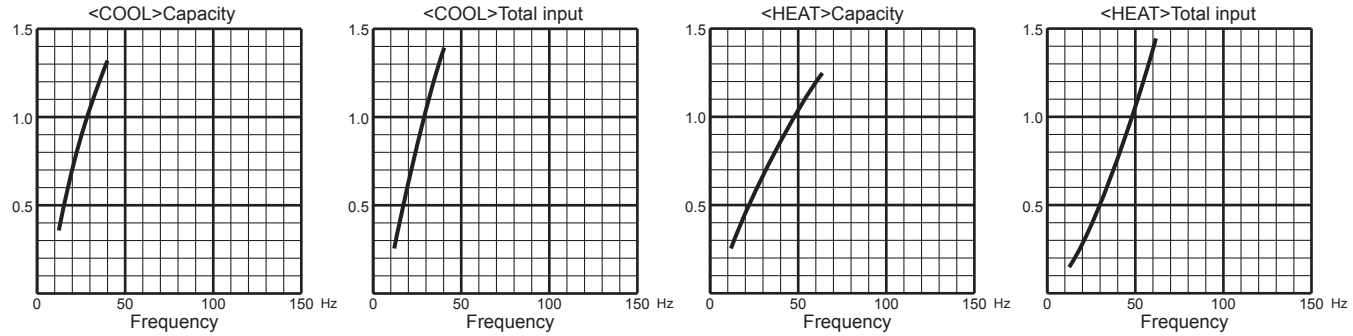


4. 22-class unit in single operation

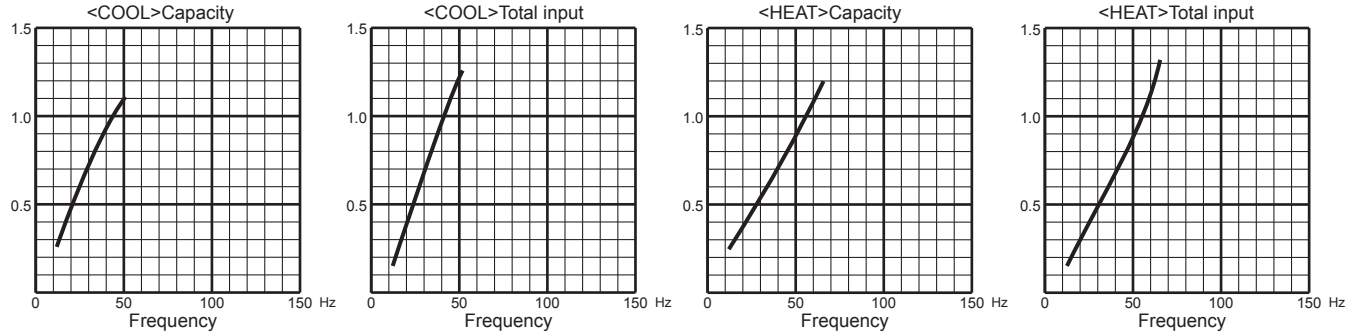


MXZ-2D42VA2 MXZ-2D53VA2 MXZ-2D53VAH2

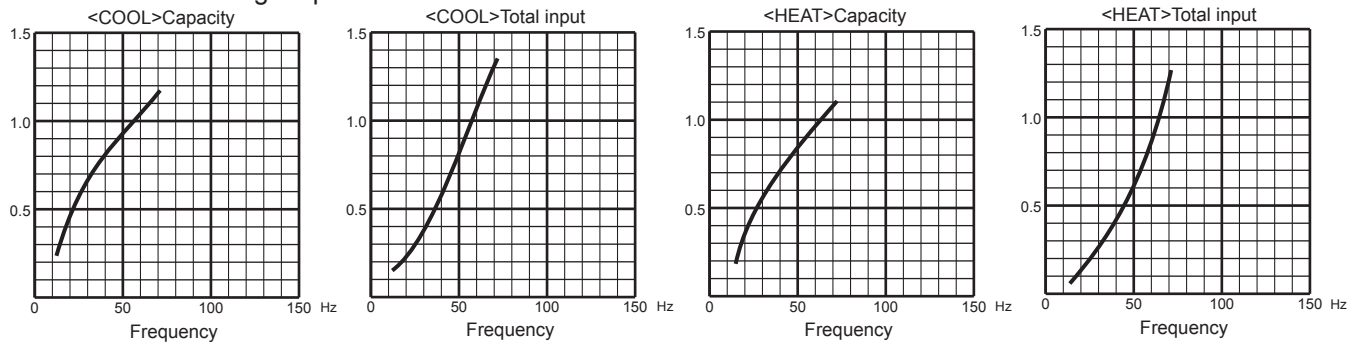
5. 25-class unit in single operation



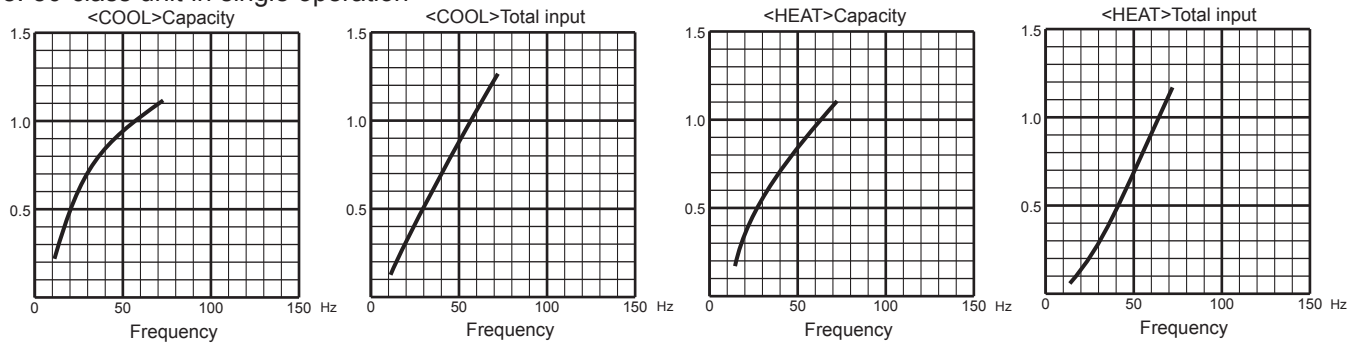
6. 35-class unit in single operation



7. 42-class unit in single operation

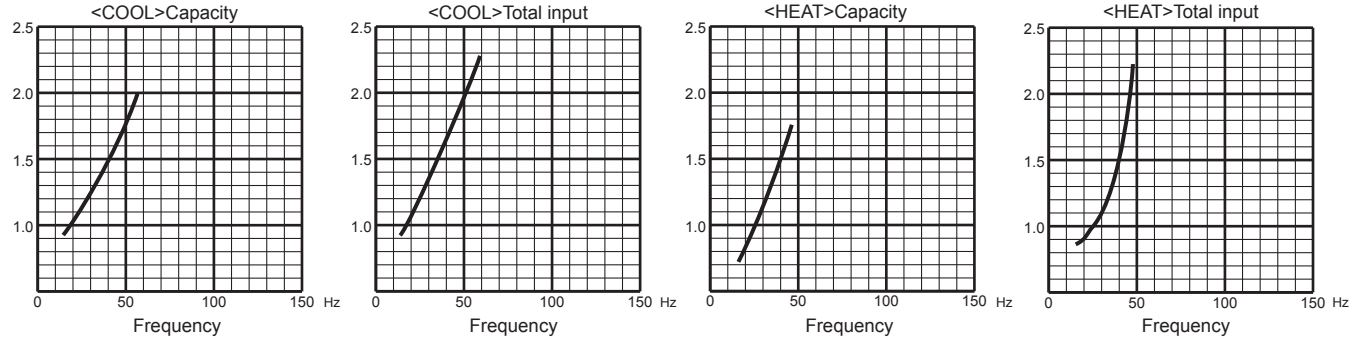


8. 50-class unit in single operation

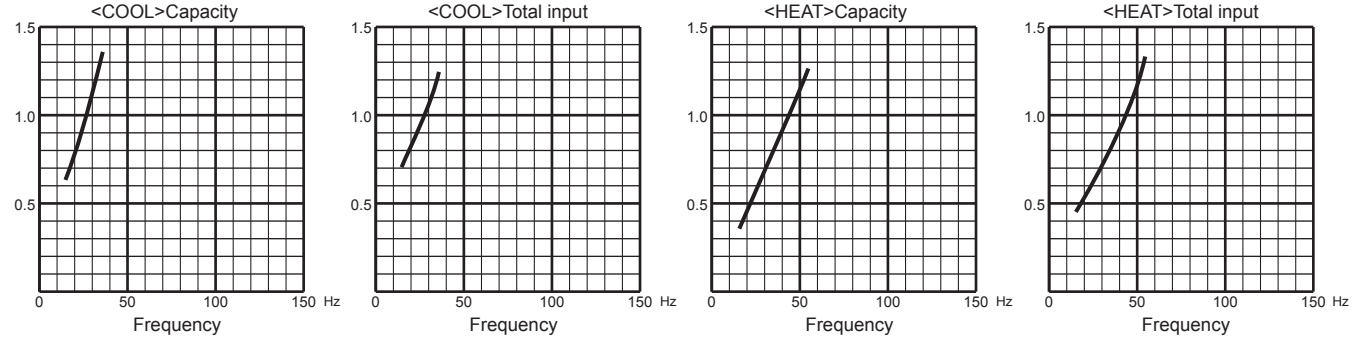


MXZ-3E54VA

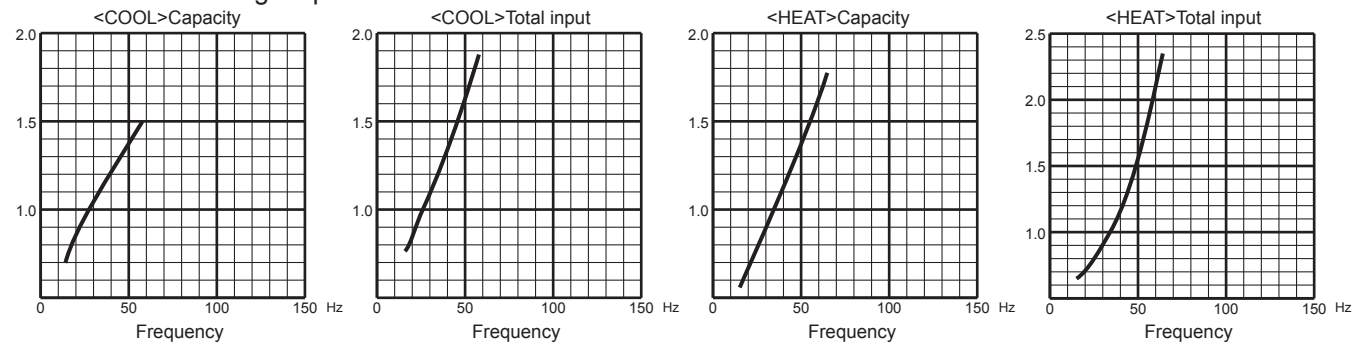
1. 15-class unit in single operation



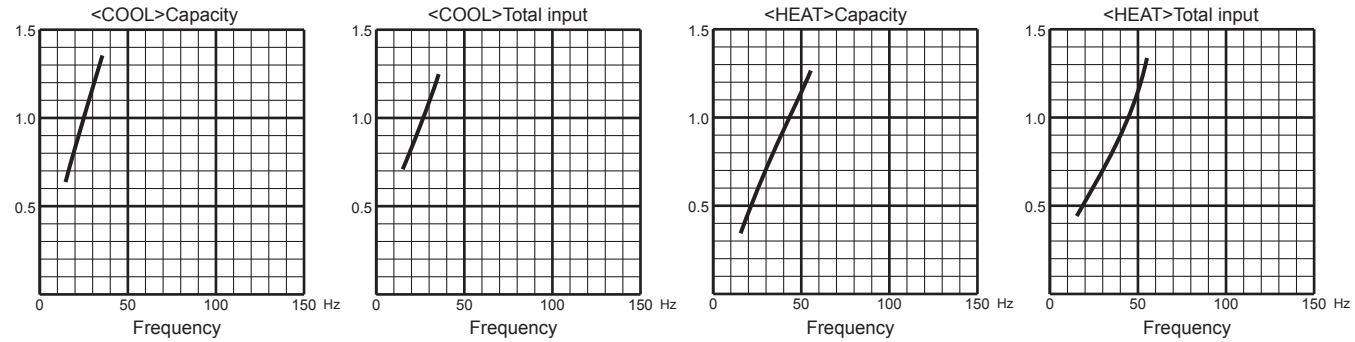
2. 18-class unit in single operation



3. 20-class unit in single operation

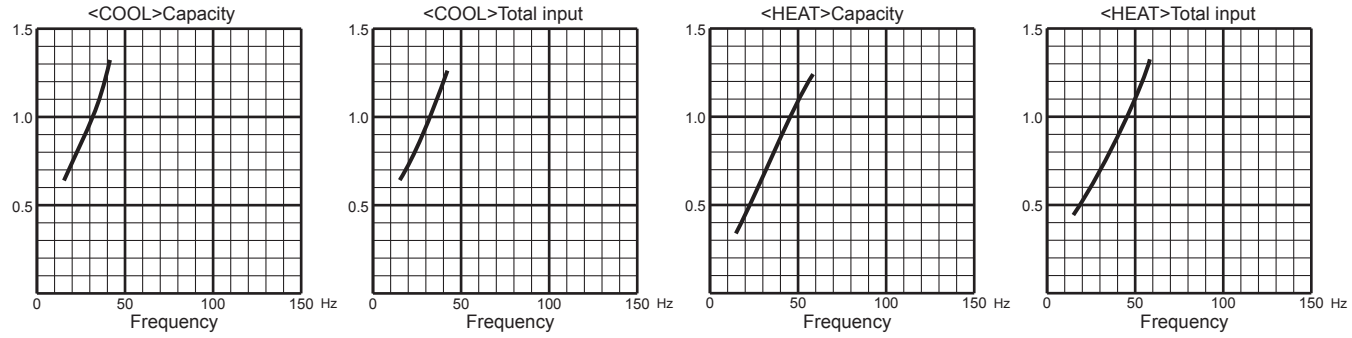


4. 22-class unit in single operation

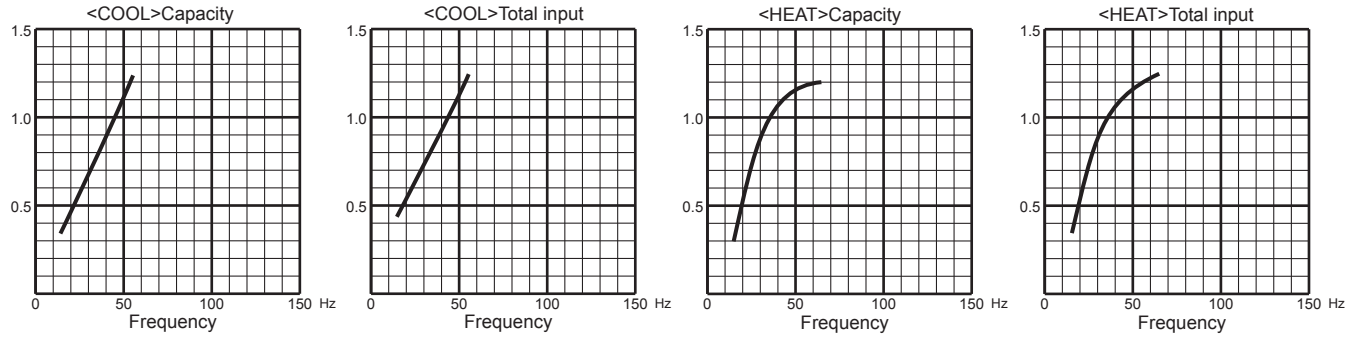


MXZ-3E54VA

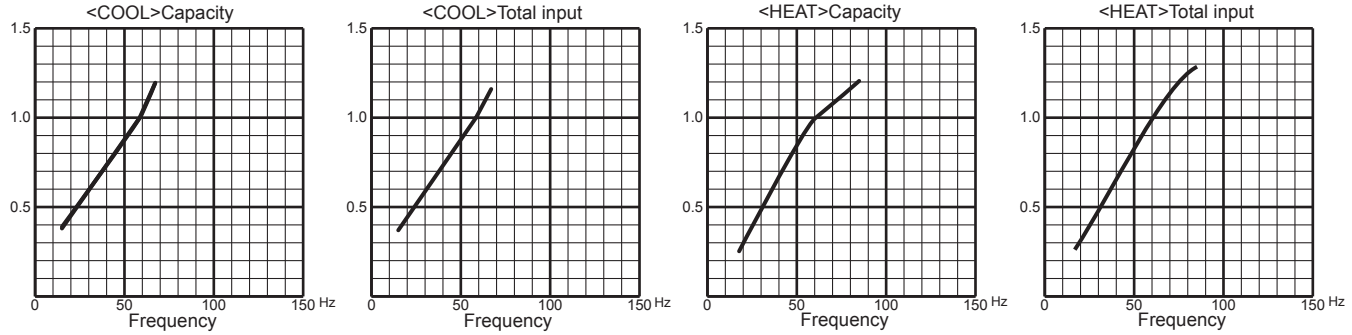
5. 25-class unit in single operation



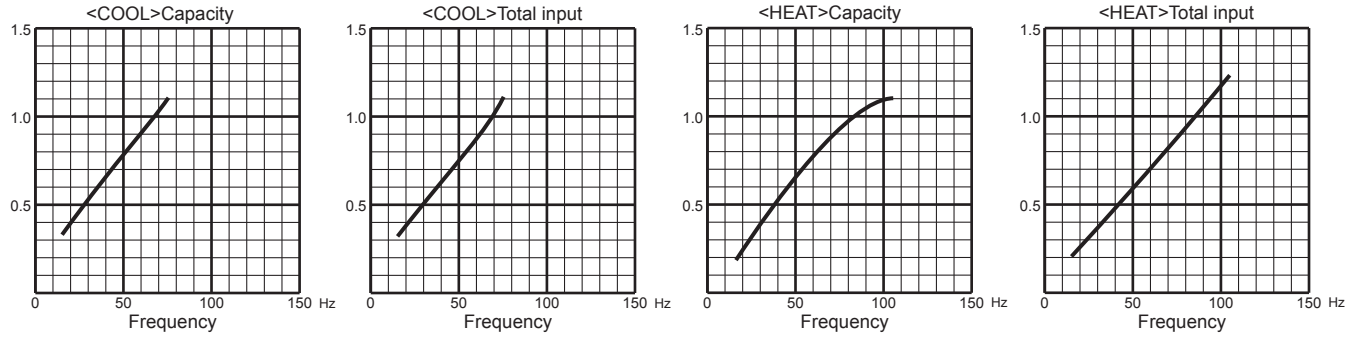
6. 35-class unit in single operation



7. 42-class unit in single operation

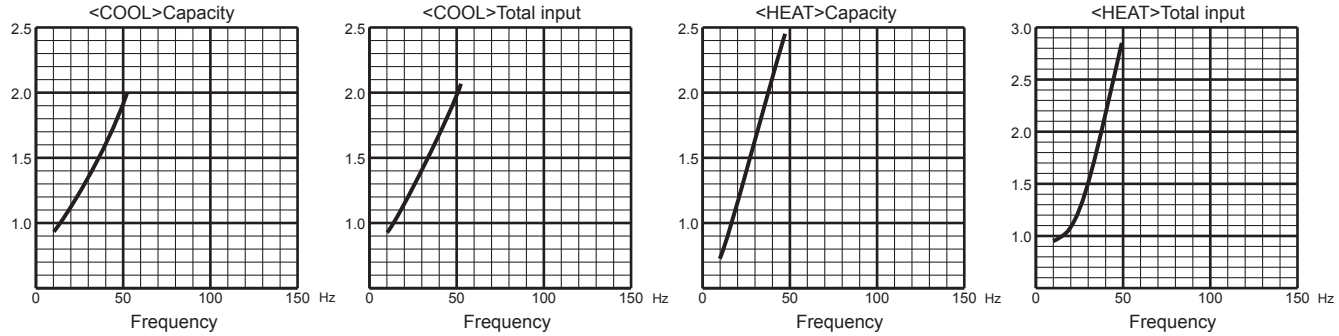


8. 50-class unit in single operation

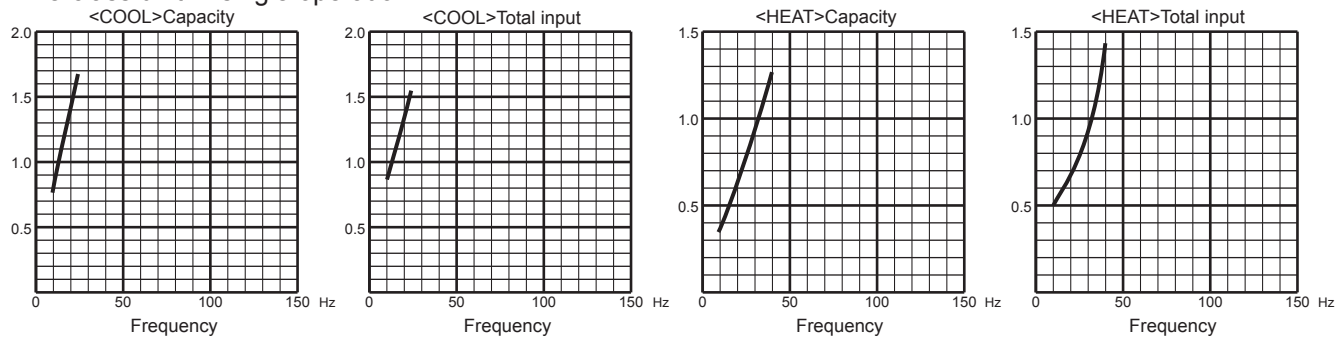


MXZ-3E68VA

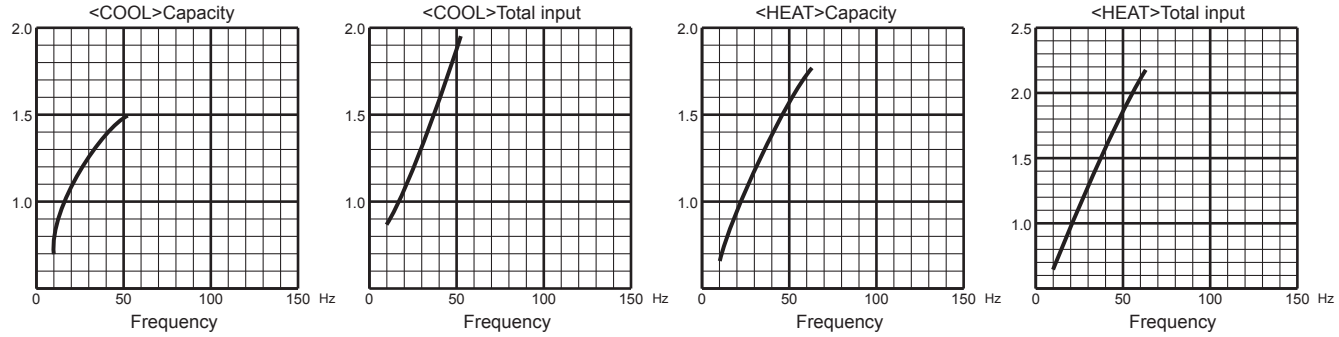
1. 15-class unit in single operation



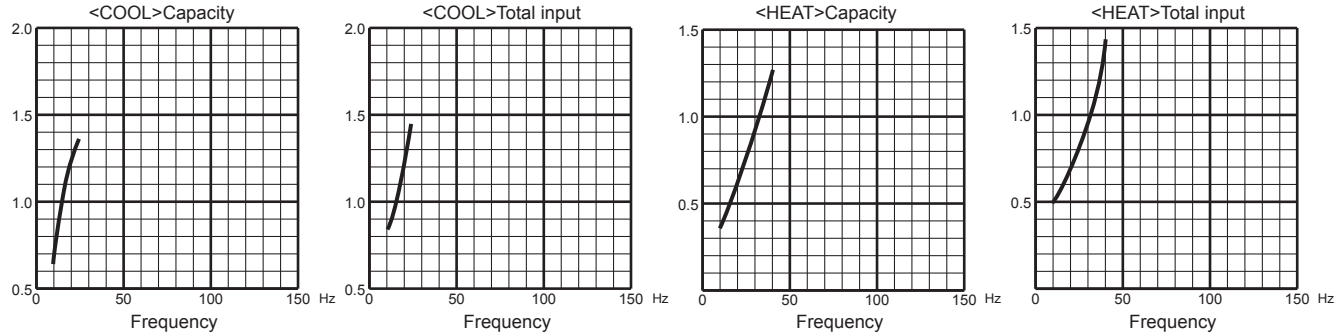
2. 18-class unit in single operation



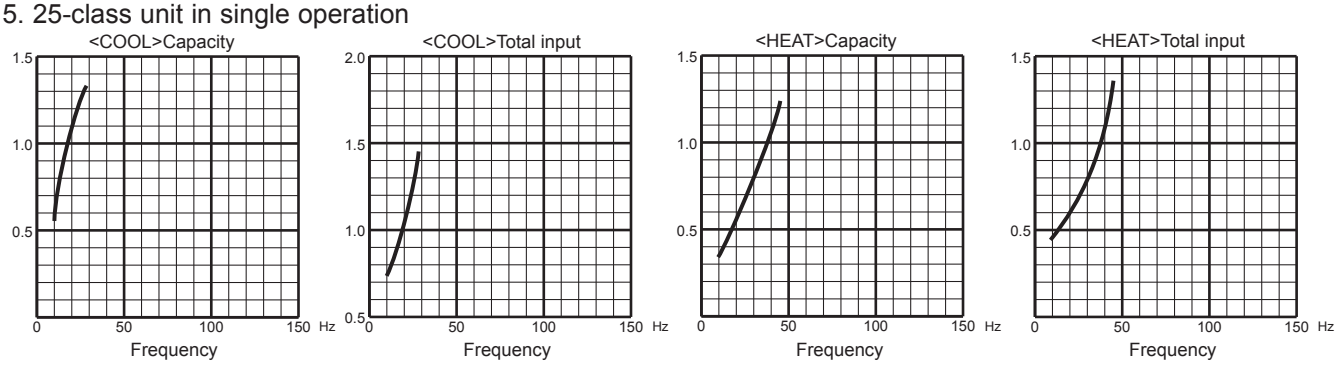
3. 20-class unit in single operation



4. 22-class unit in single operation

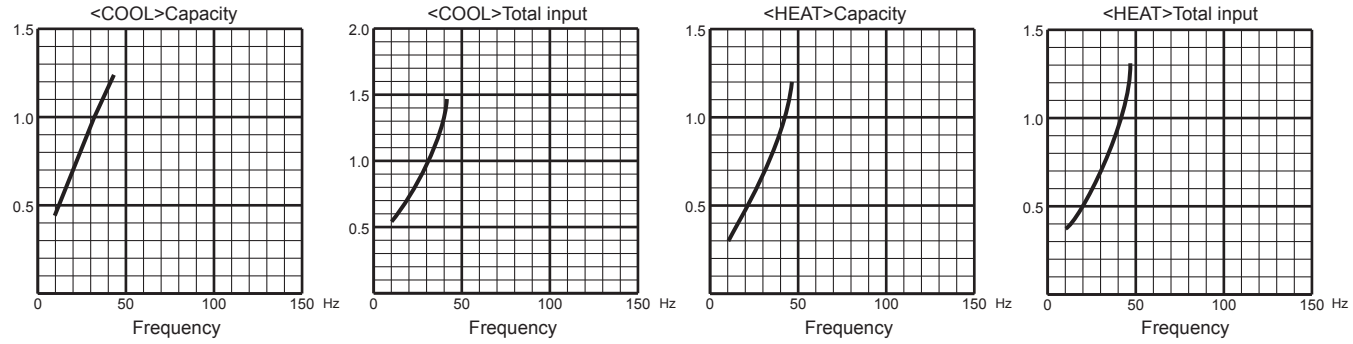


5. 25-class unit in single operation

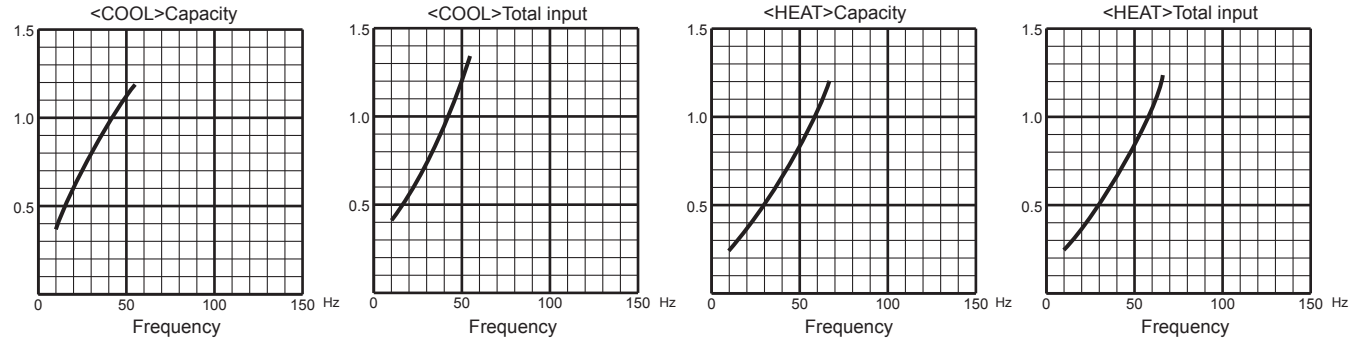


MXZ-3E68VA

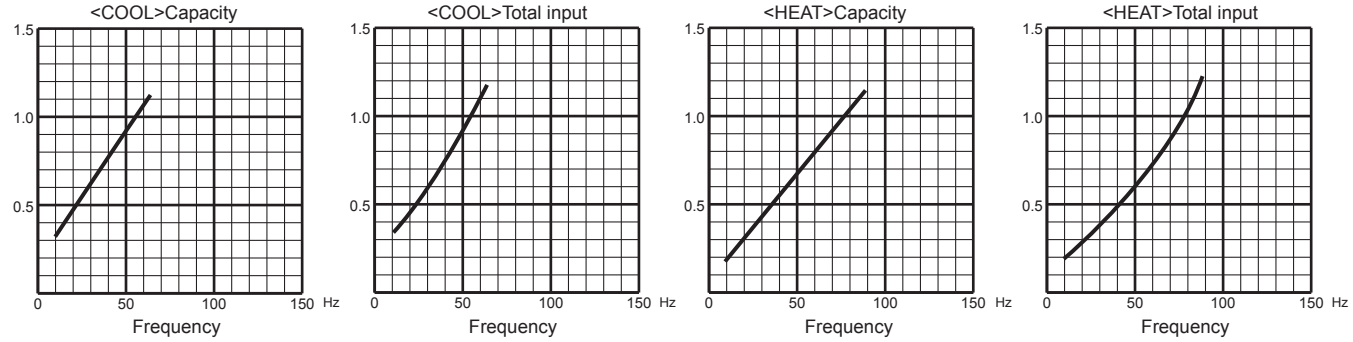
6. 35-class unit in single operation



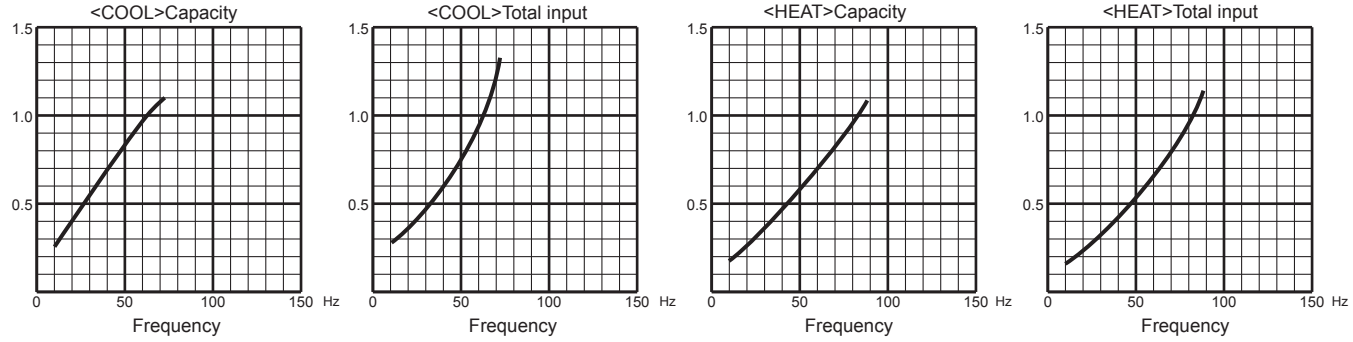
7. 42-class unit in single operation



8. 50-class unit in single operation

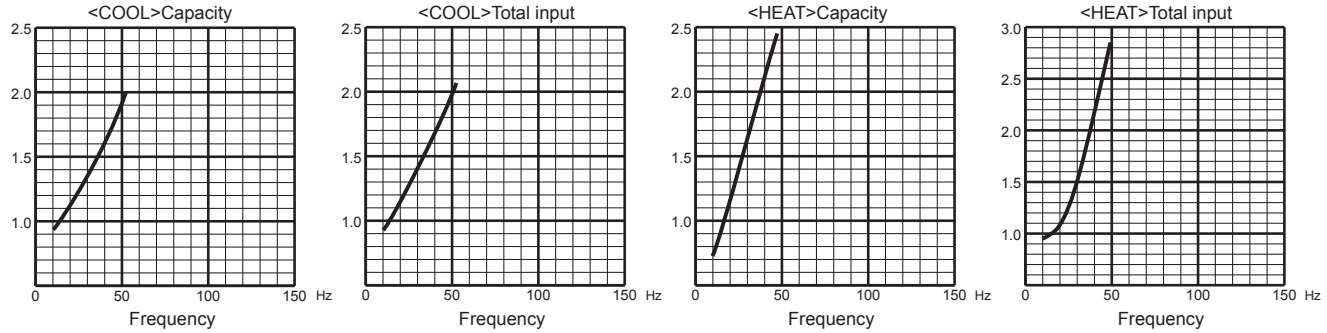


9. 60-class unit in single operation

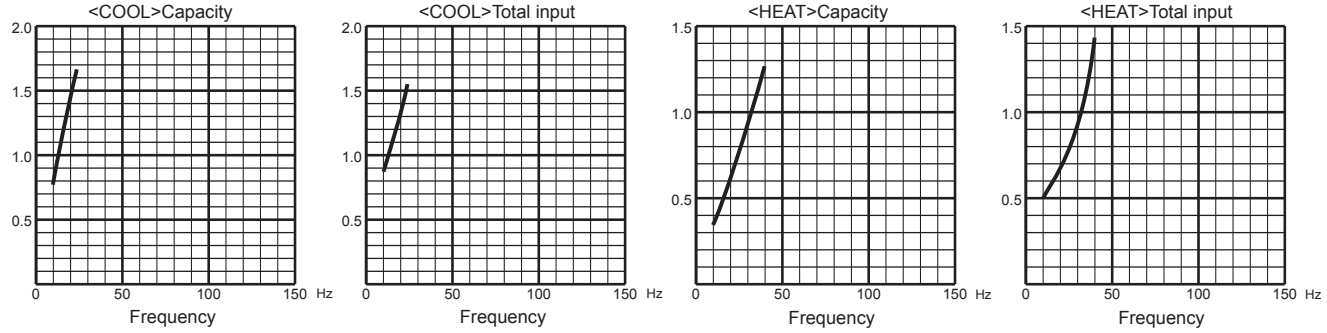


MXZ-4E72VA

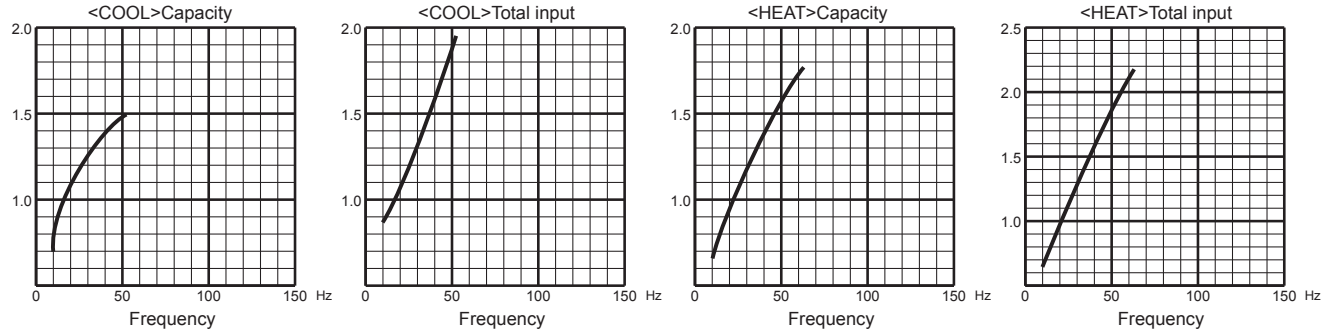
1. 15-class unit in single operation



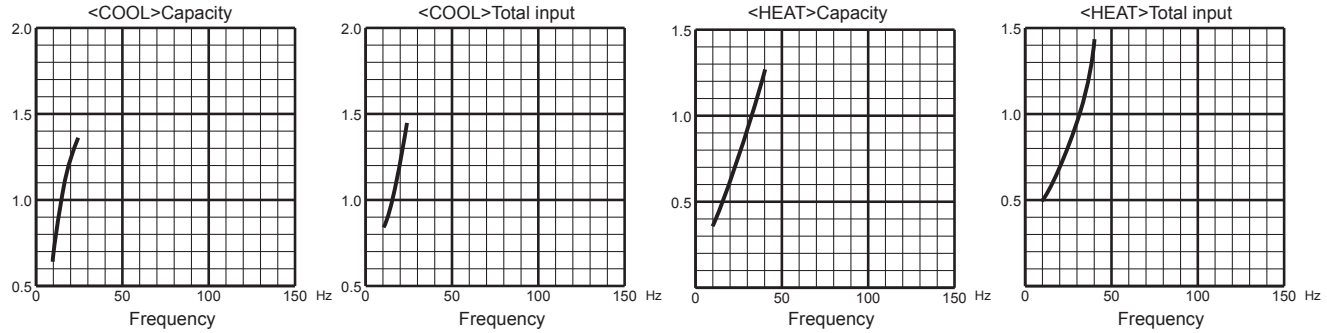
2. 18-class unit in single operation



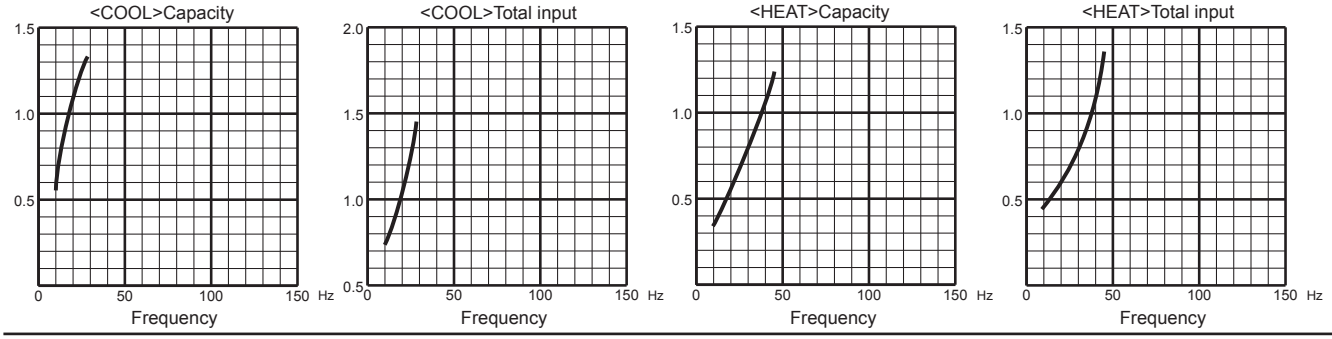
3. 20-class unit in single operation



4. 22-class unit in single operation

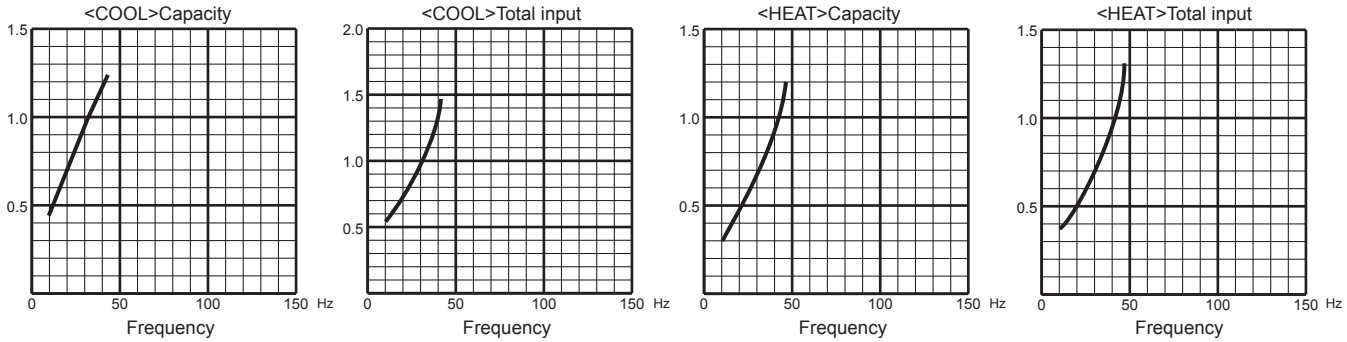


5. 25-class unit in single operation

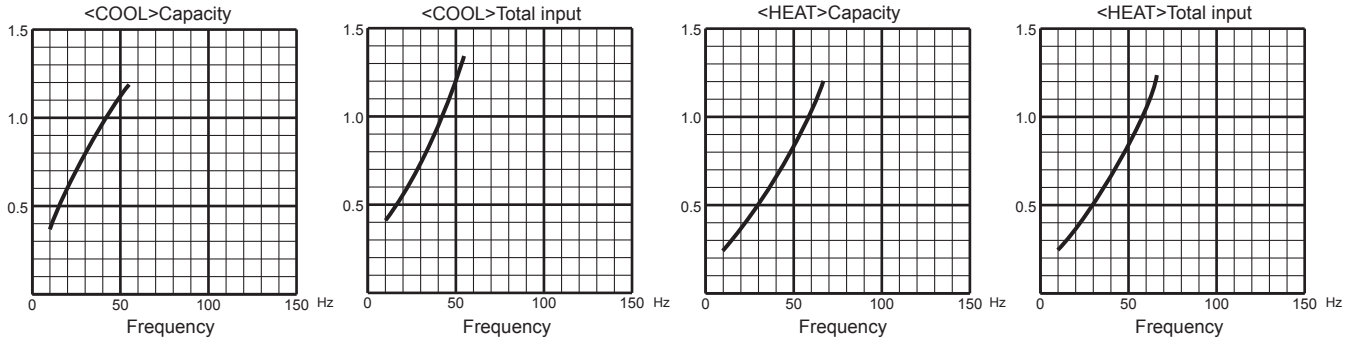


MXZ-4E72VA

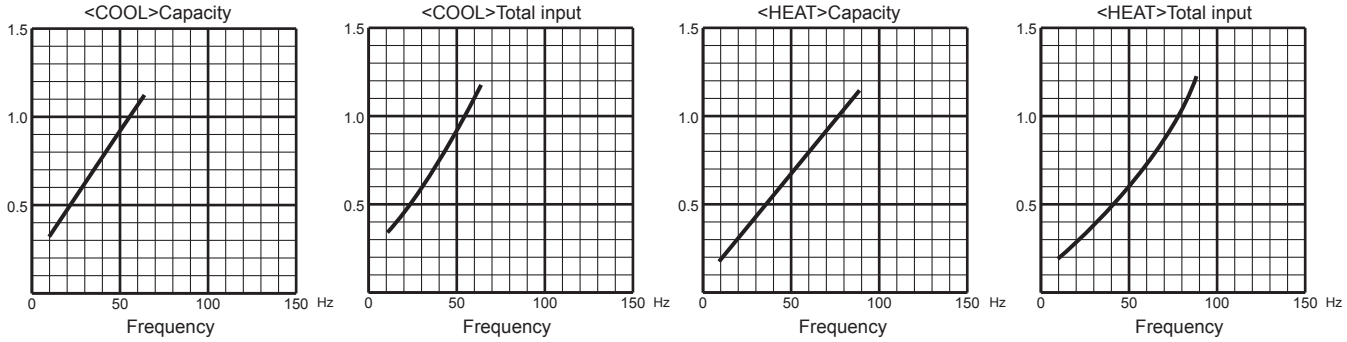
6. 35-class unit in single operation



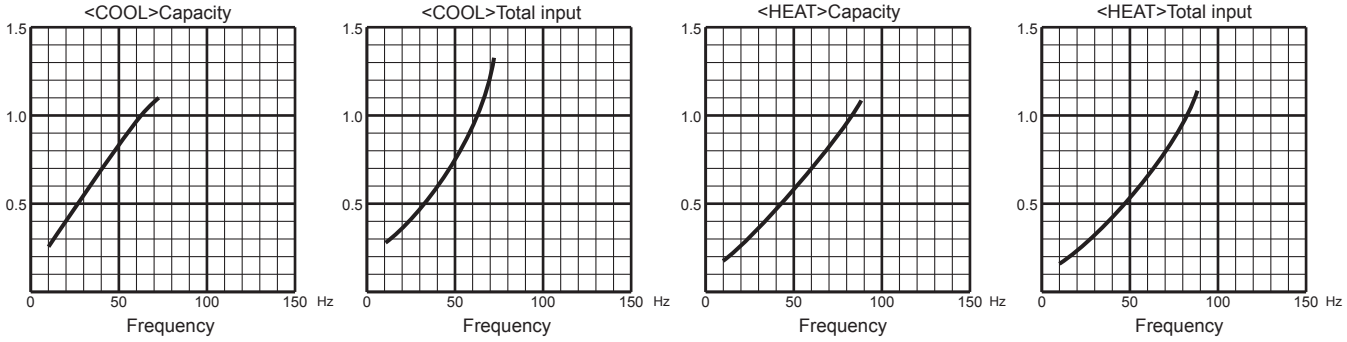
7. 42-class unit in single operation



8. 50-class unit in single operation

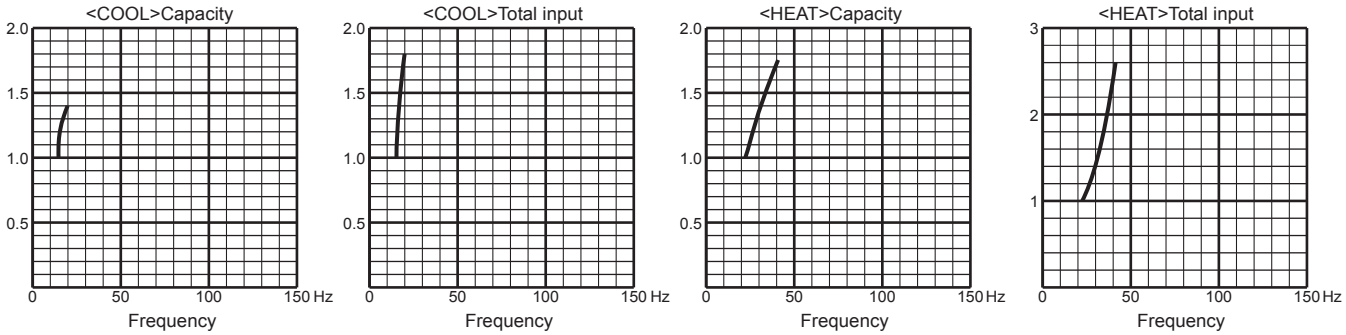


9. 60-class unit in single operation

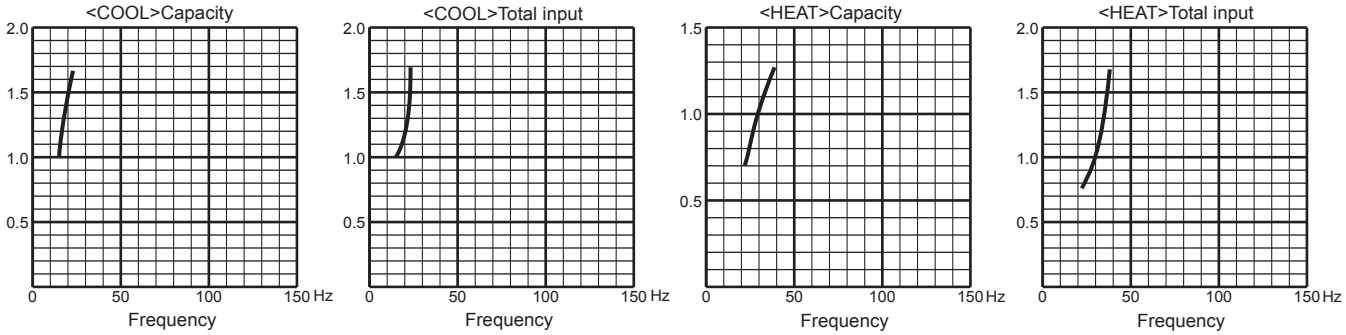


MXZ-4E83VA

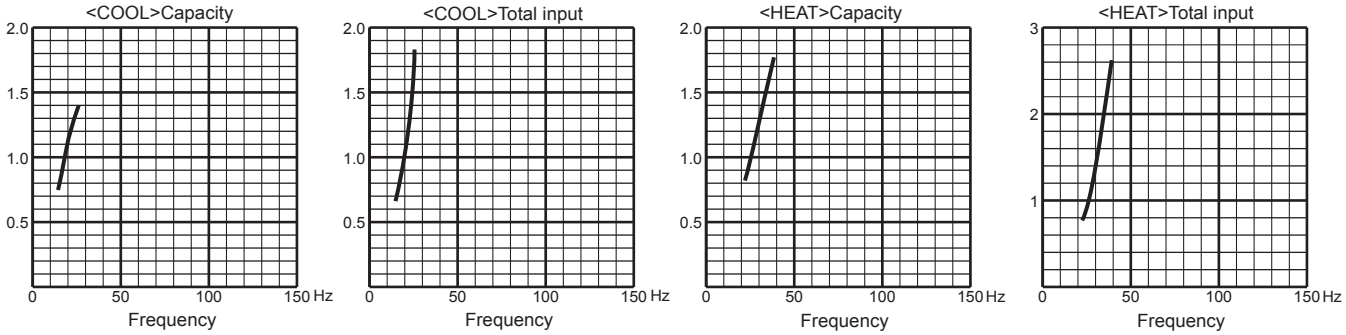
1. 15-class unit in single operation



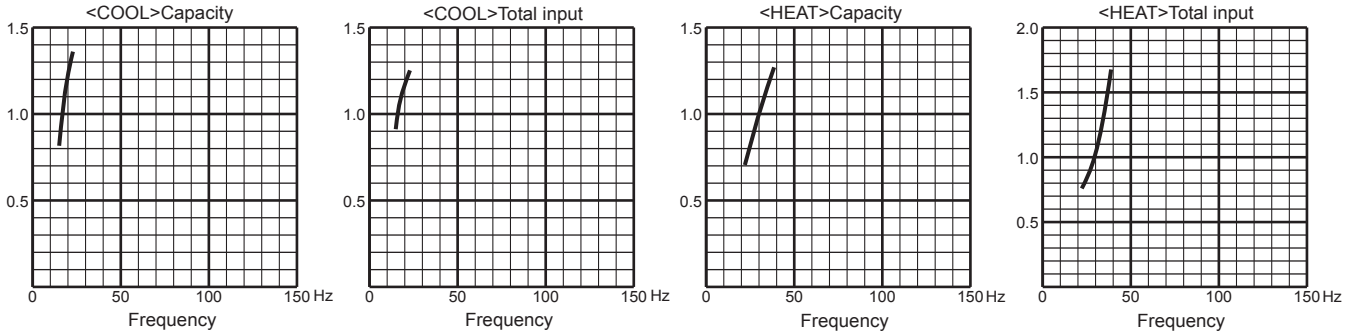
2. 18-class unit in single operation



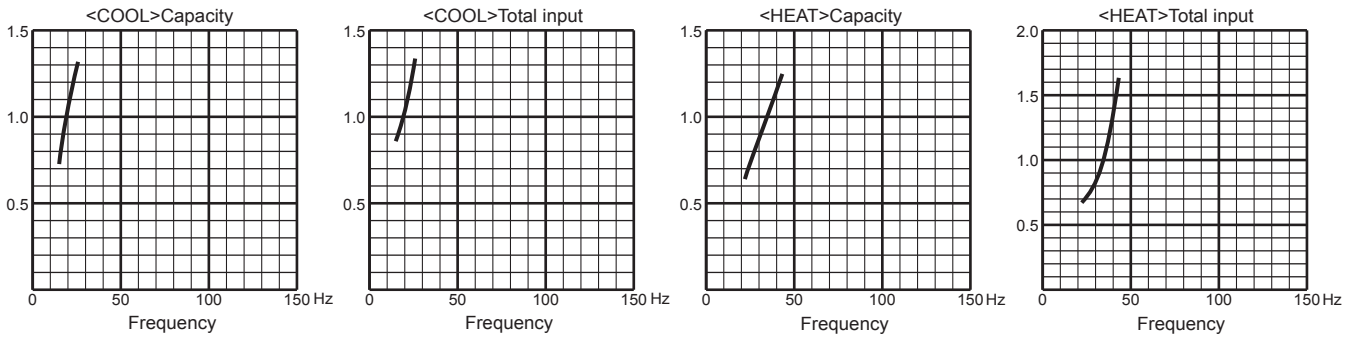
3. 20-class unit in single operation



4. 22-class unit in single operation

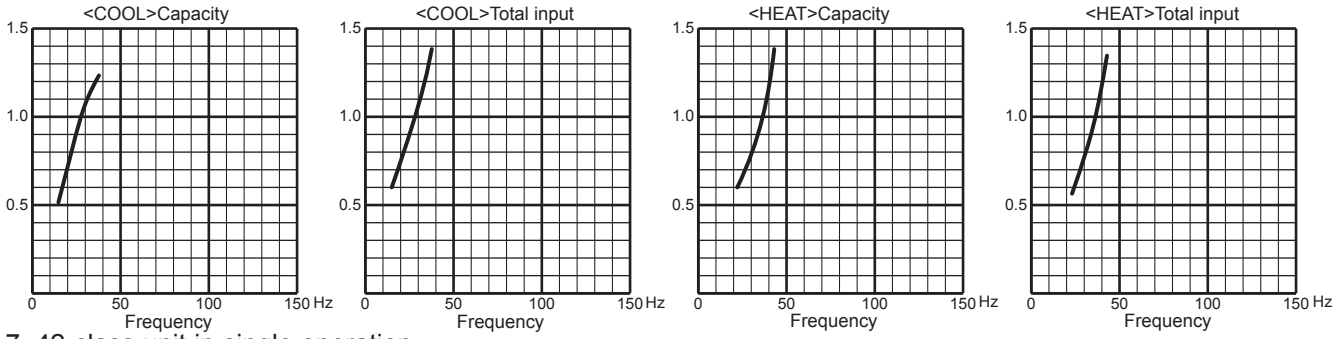


5. 25-class unit in single operation

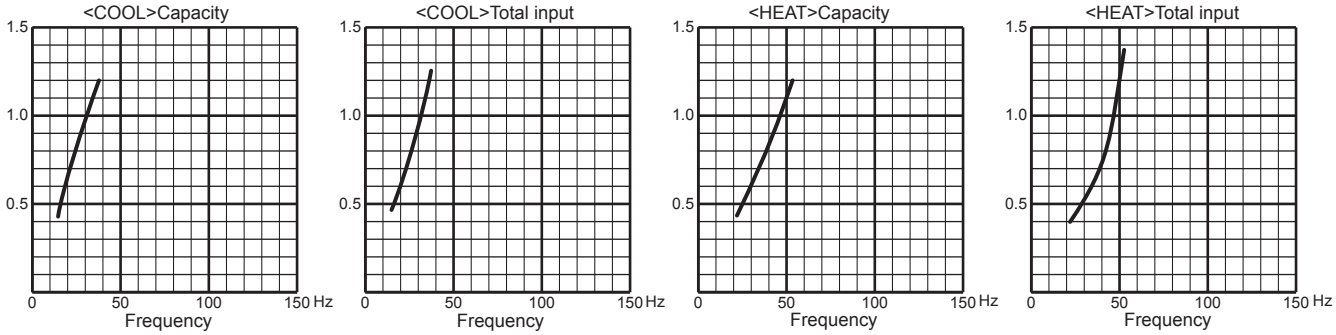


MXZ-4E83VA

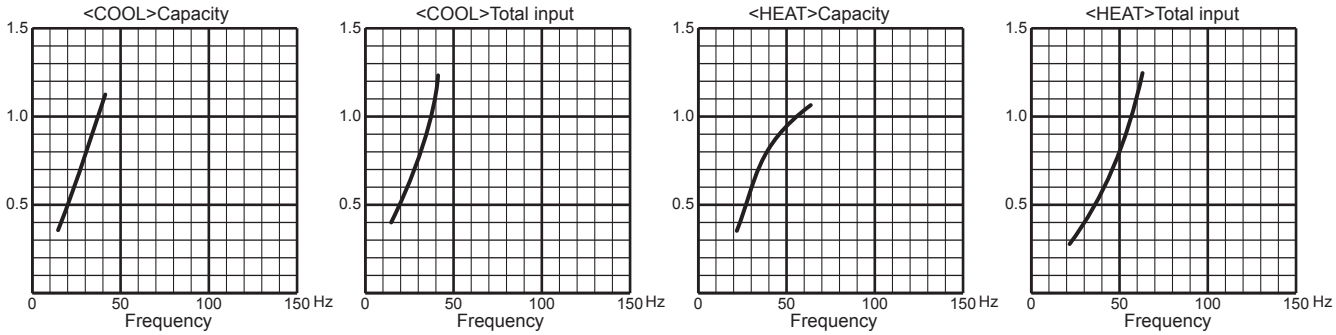
6. 35-class unit in single operation



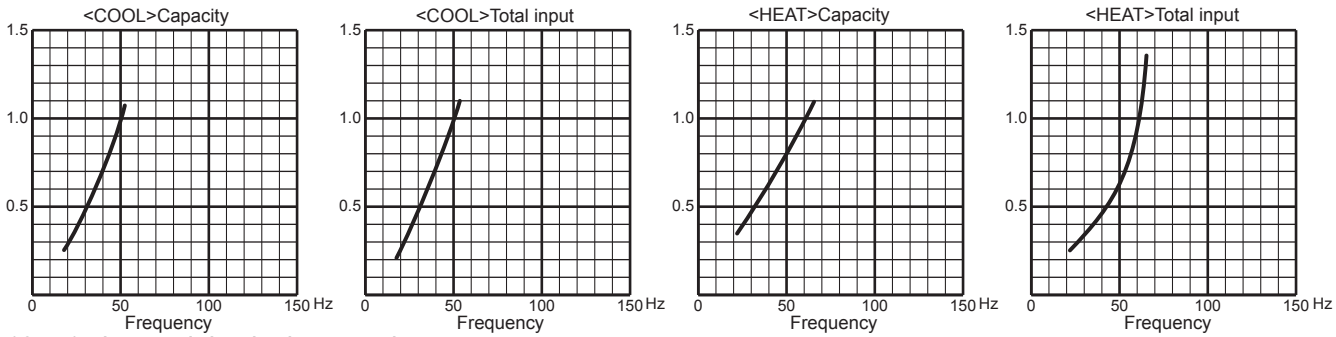
7. 42-class unit in single operation



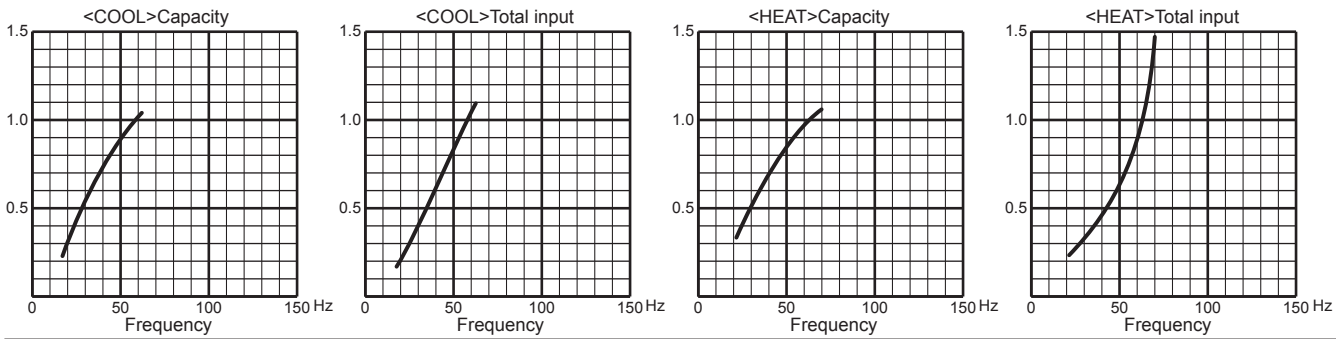
8. 50-class unit in single operation



9. 60-class unit in single operation

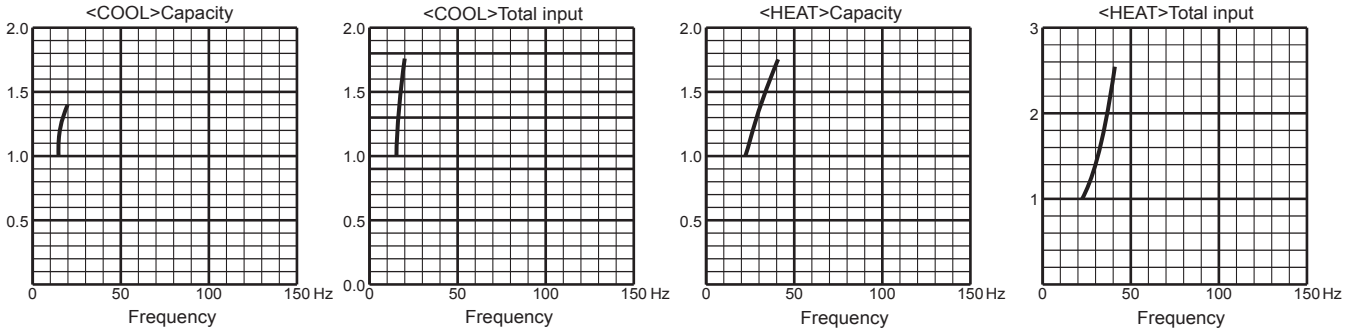


10. 71-class unit in single operation

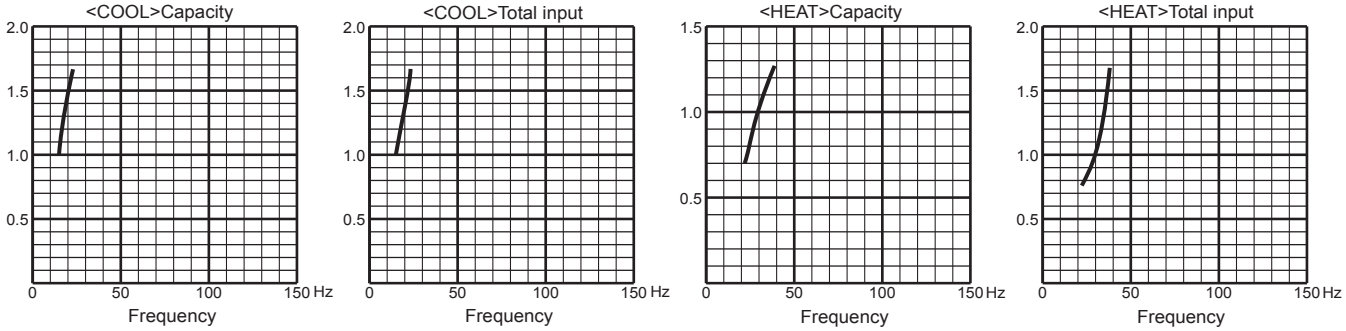


MXZ-5E102VA

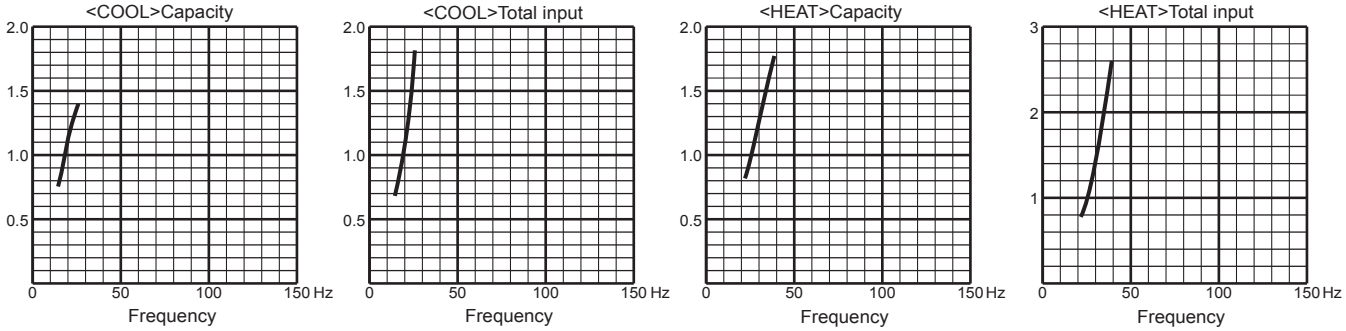
1. 15-class unit in single operation



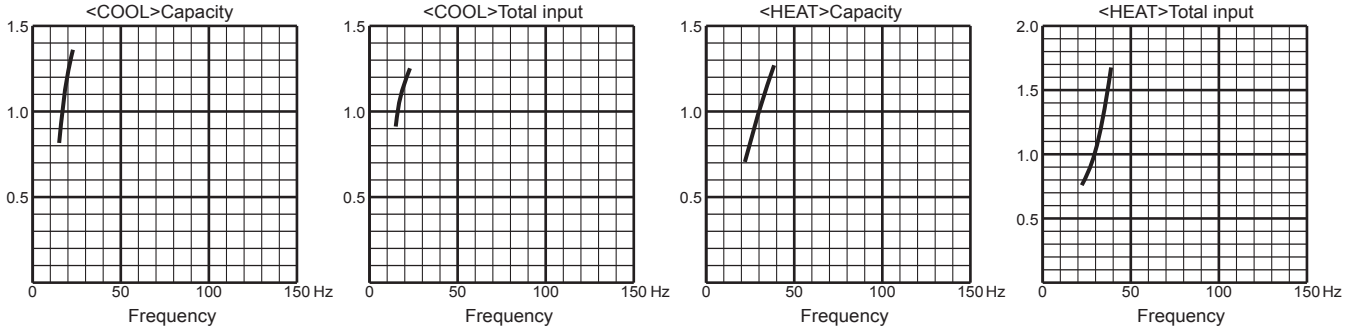
2. 18-class unit in single operation



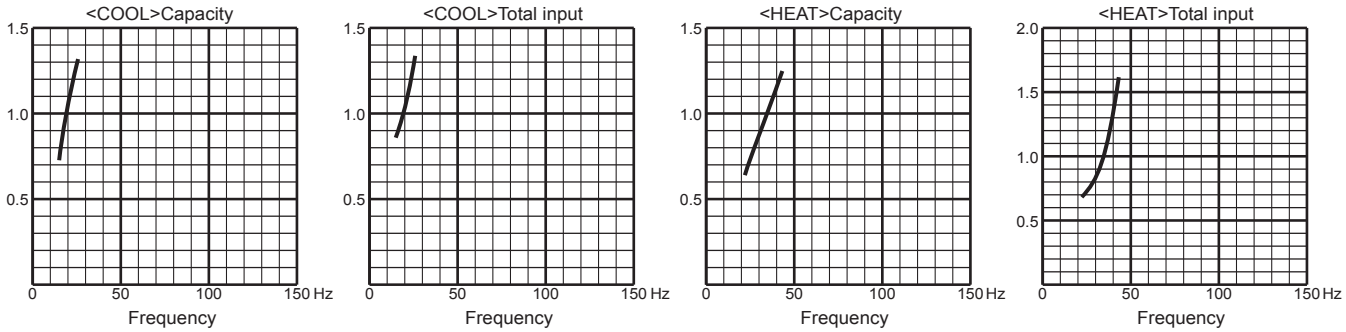
3. 20-class unit in single operation



4. 22-class unit in single operation

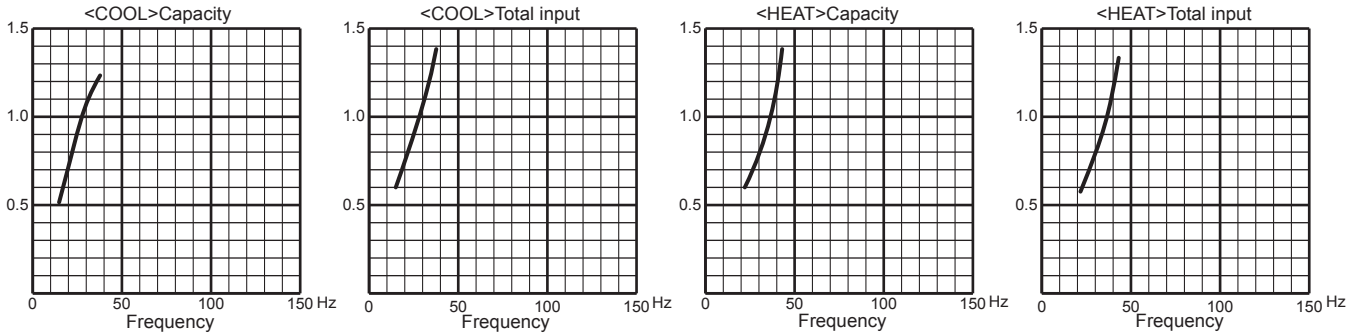


5. 25-class unit in single operation

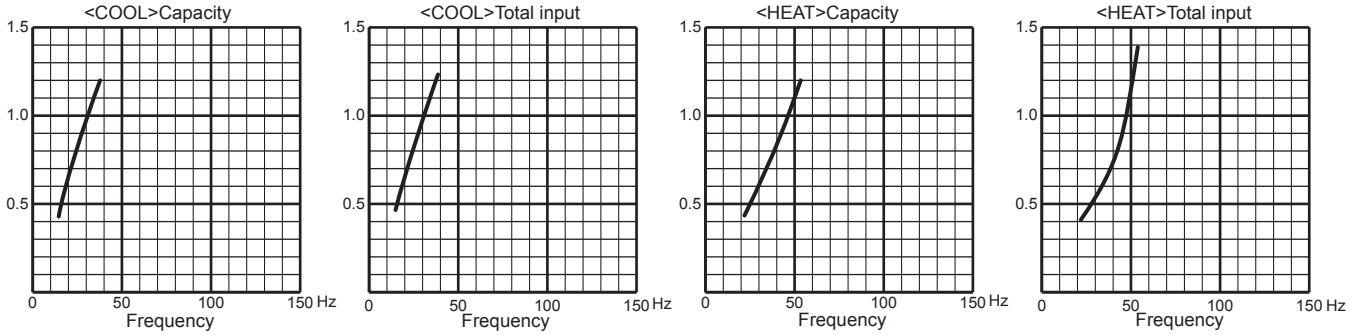


MXZ-5E102VA

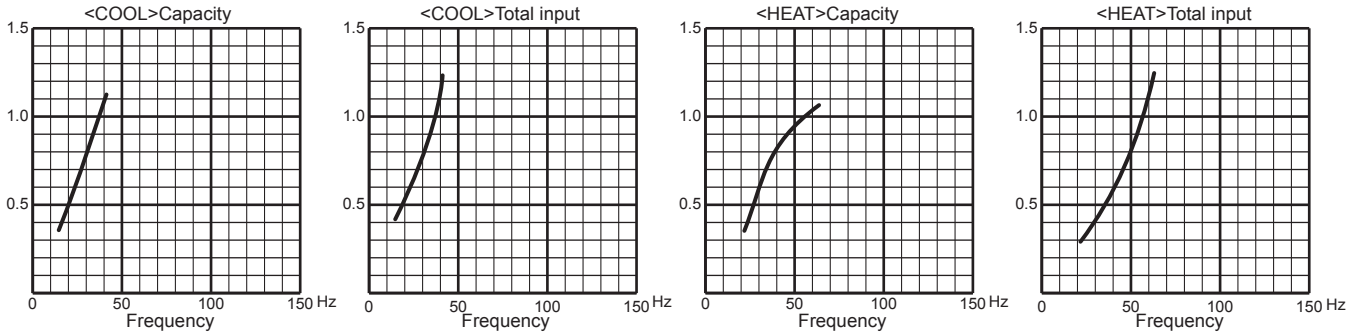
6. 35-class unit in single operation



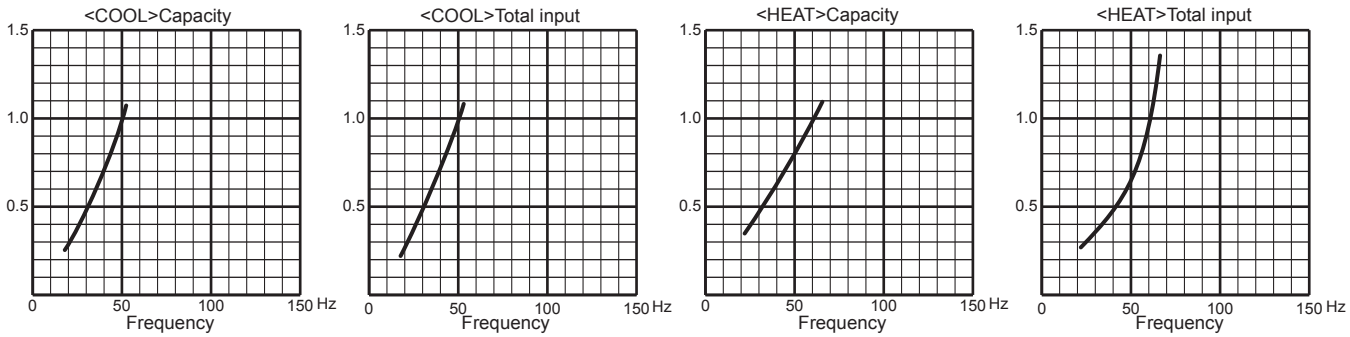
7. 42-class unit in single operation



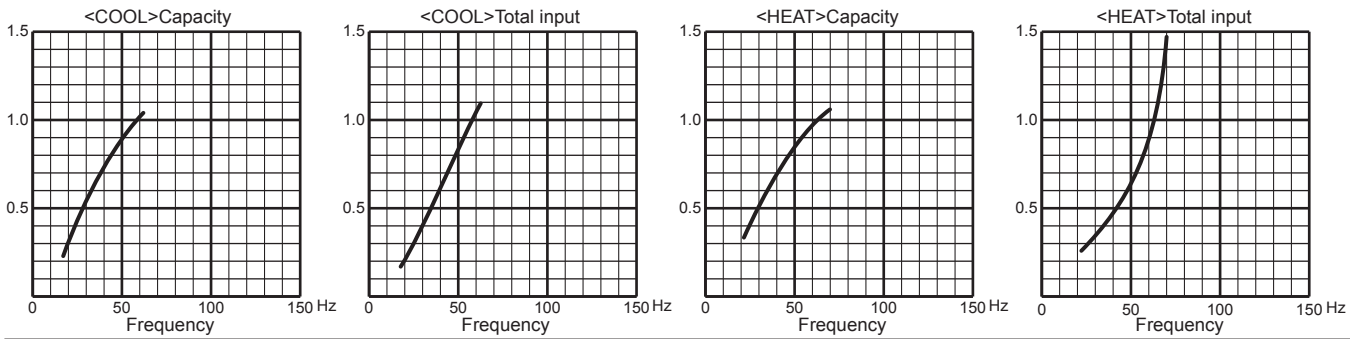
8. 50-class unit in single operation



9. 60-class unit in single operation

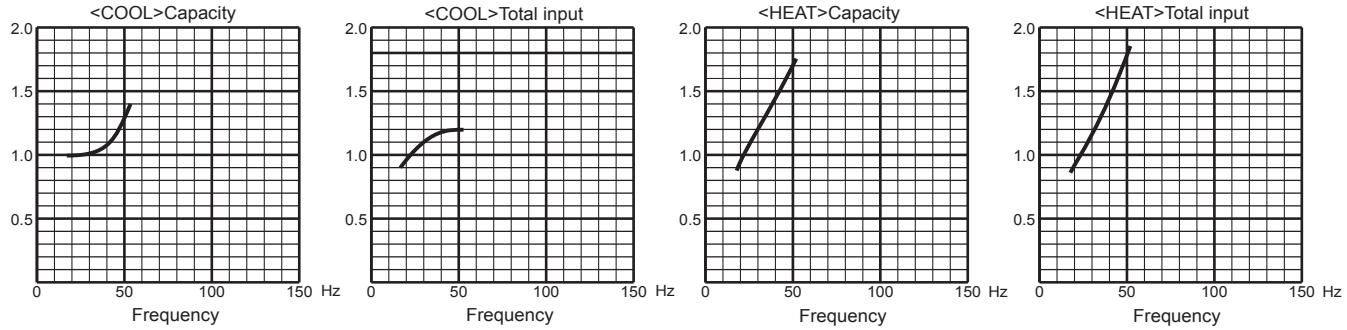


10. 71-class unit in single operation

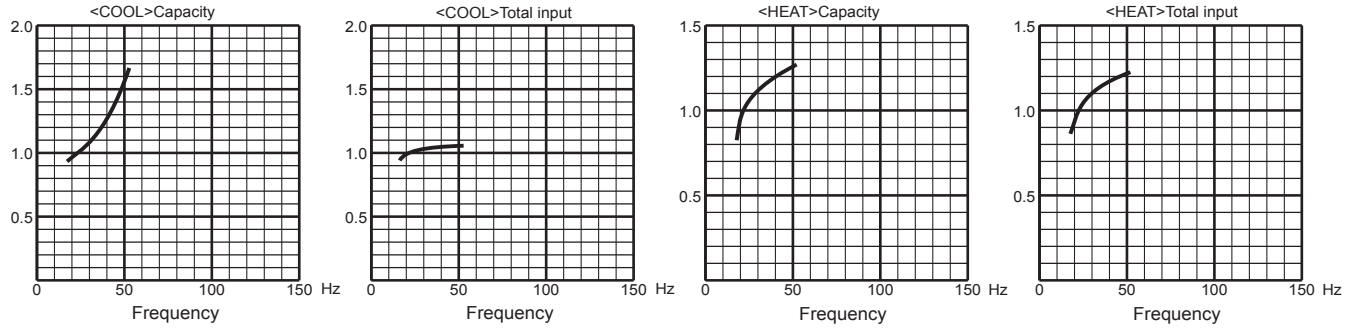


MXZ-6D122VA

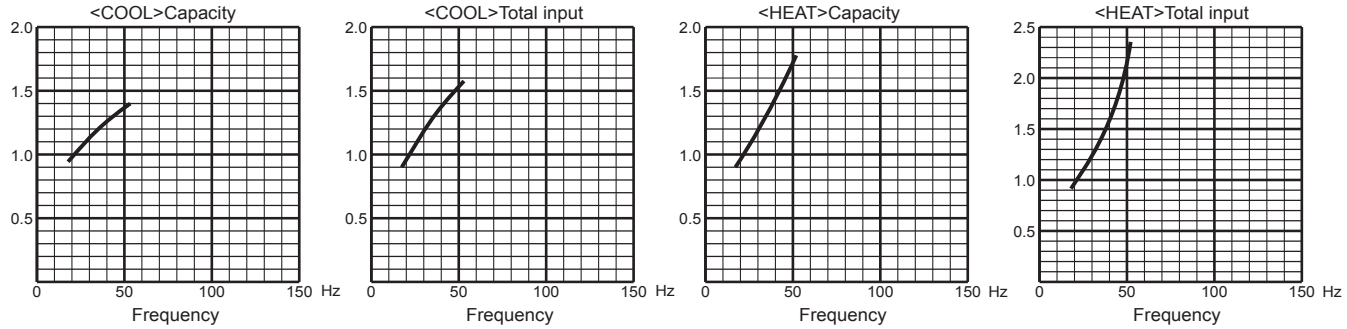
1. 15-class unit in single operation



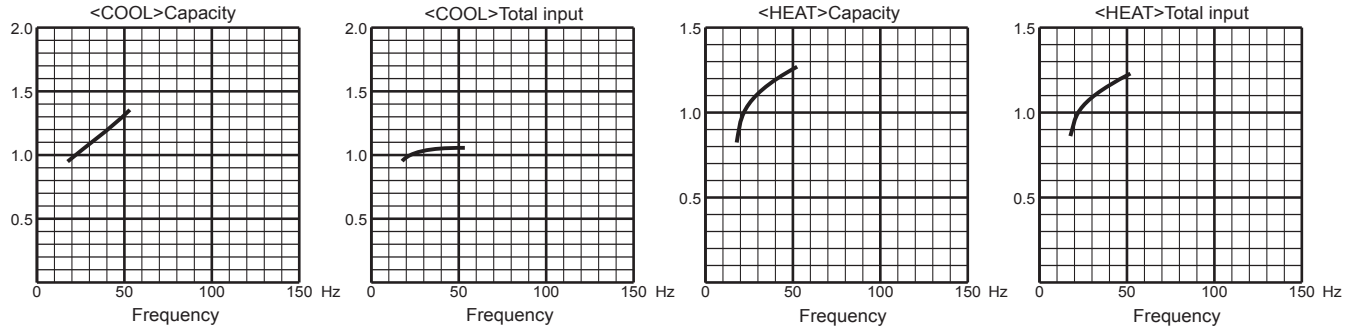
2. 18-class unit in single operation



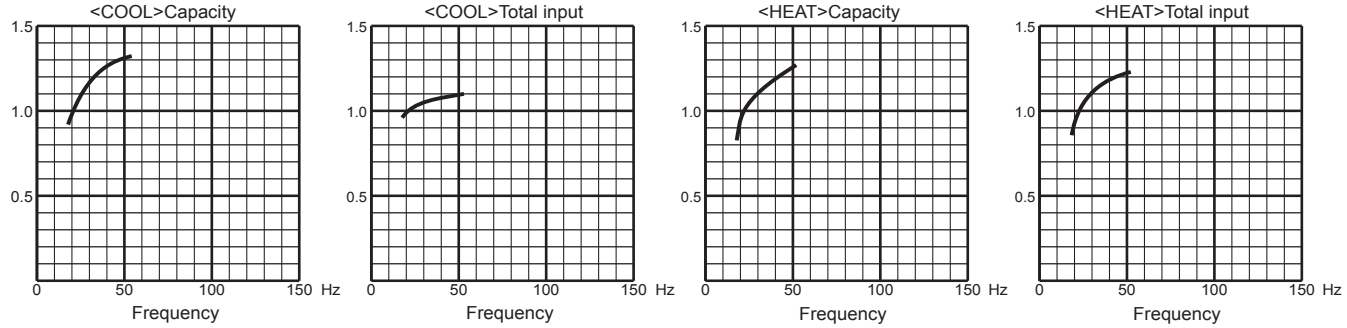
3. 20-class unit in single operation



4. 22-class unit in single operation

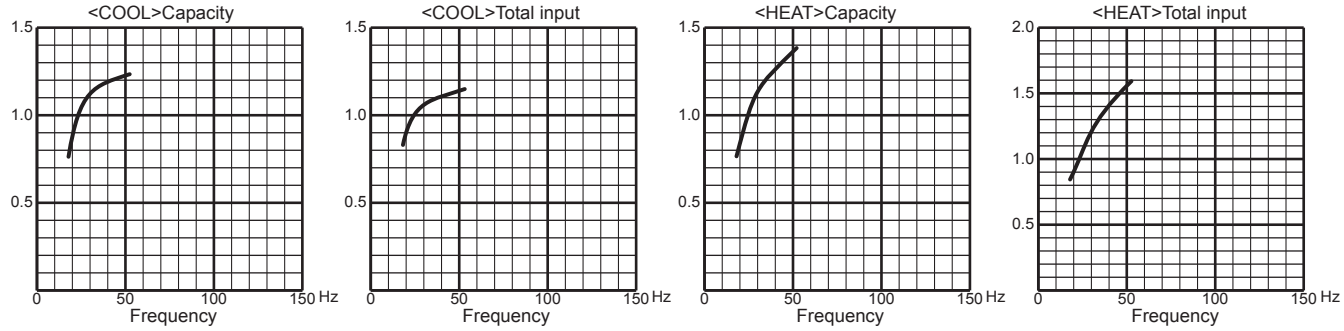


5. 25-class unit in single operation

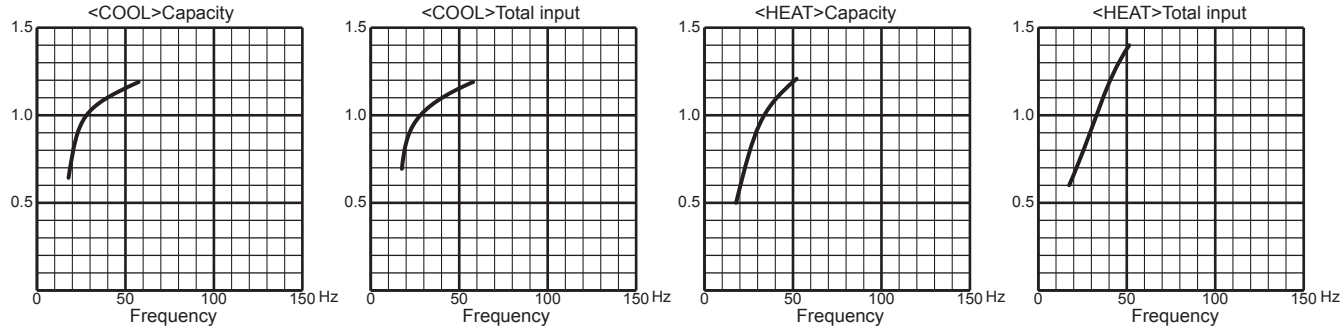


MXZ-6D122VA

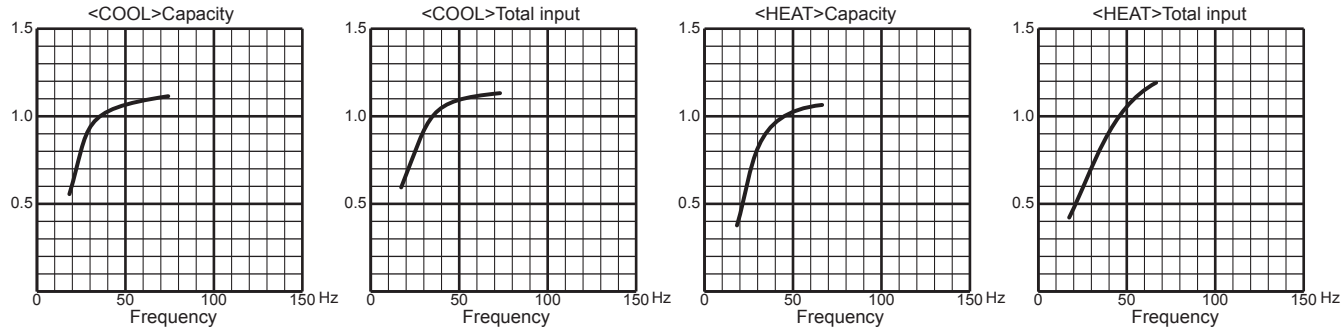
6. 35-class unit in single operation



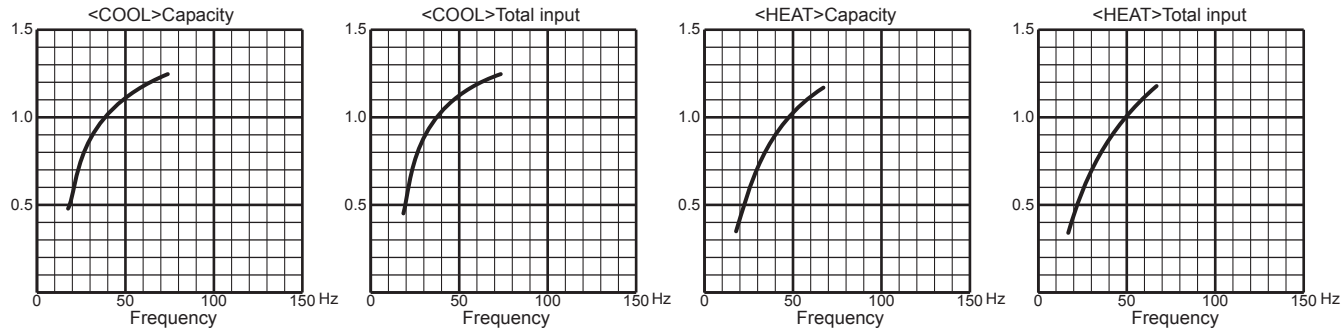
7. 42-class unit in single operation



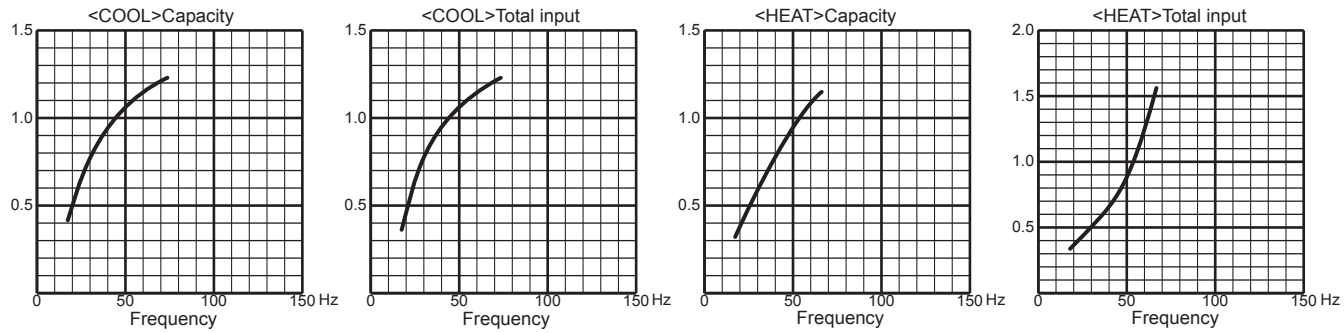
8. 50-class unit in single operation



9. 60-class unit in single operation

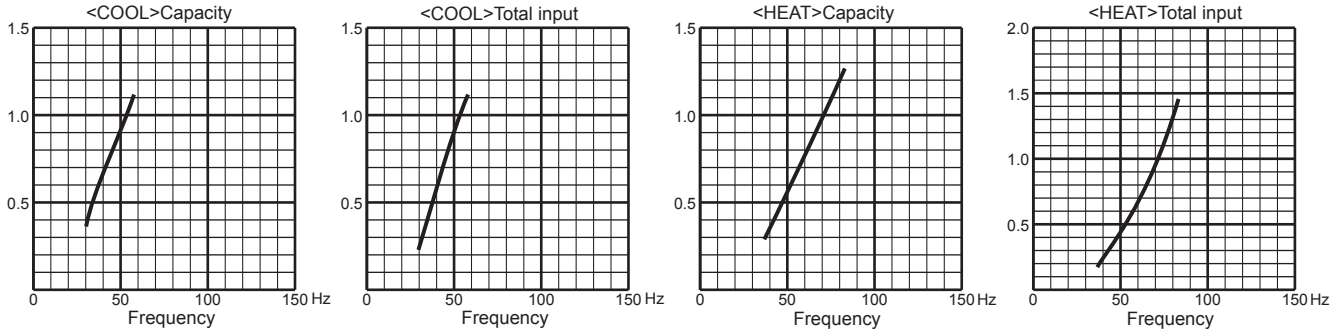


10. 71-class unit in single operation

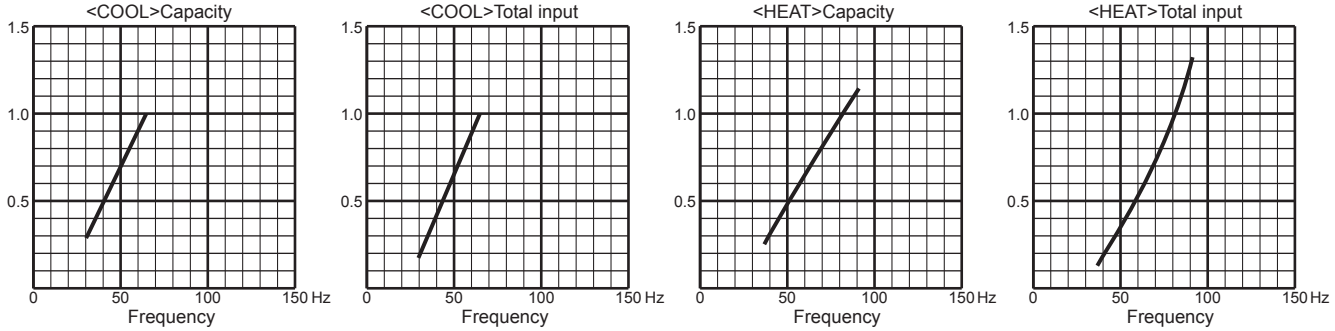


MXZ-2DM40VA

1. 25-class unit in single operation

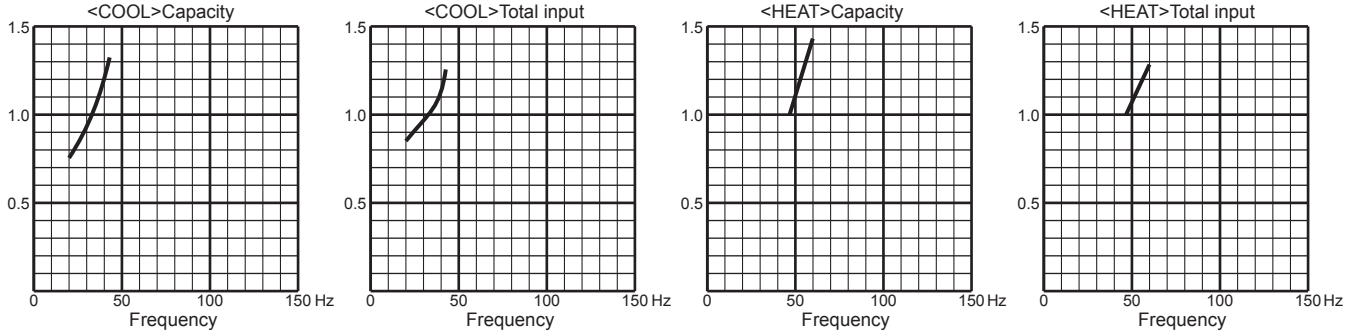


2. 35-class unit in single operation

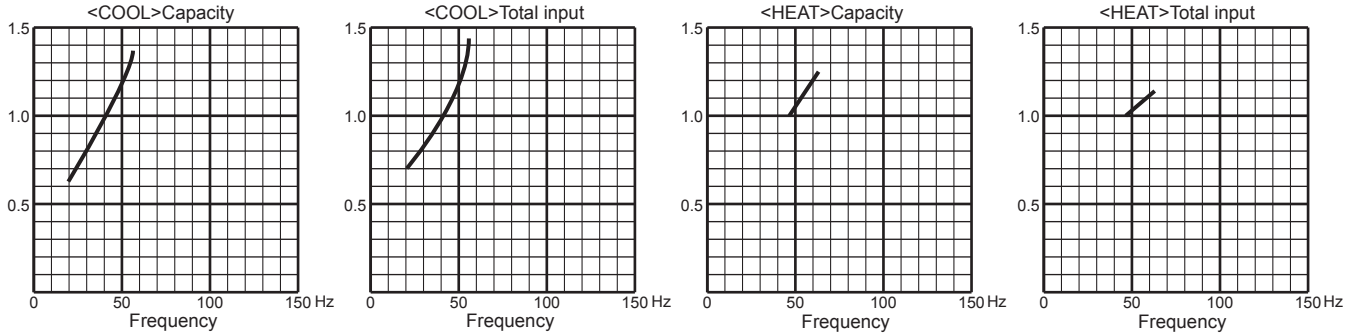


MXZ-3DM50VA

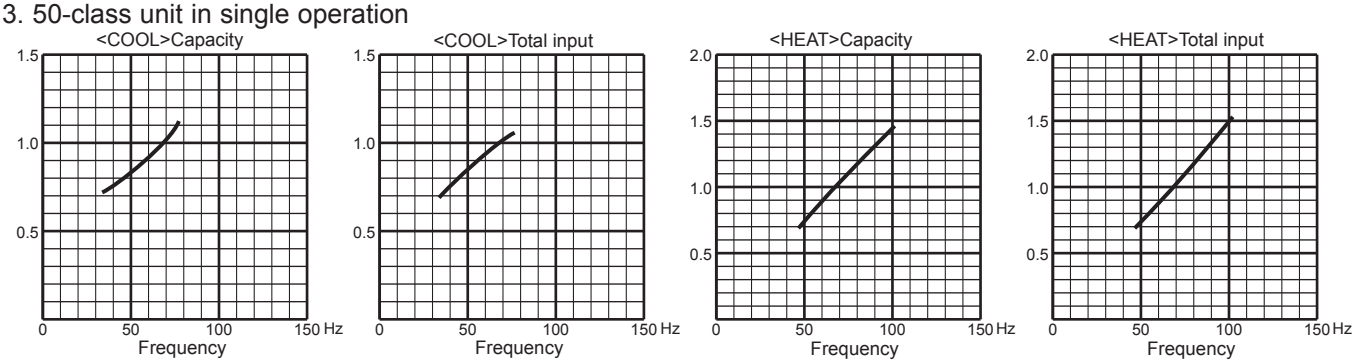
1. 25-class unit in single operation



2. 35-class unit in single operation

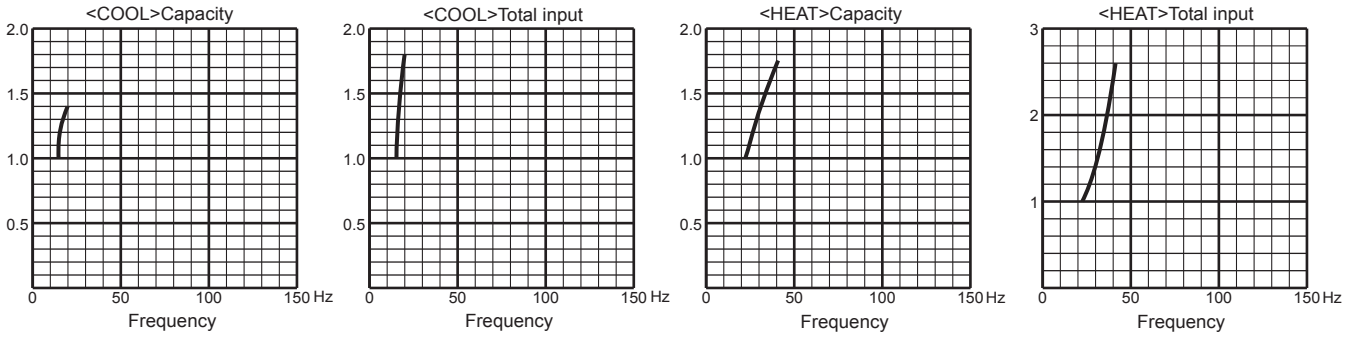


3. 50-class unit in single operation

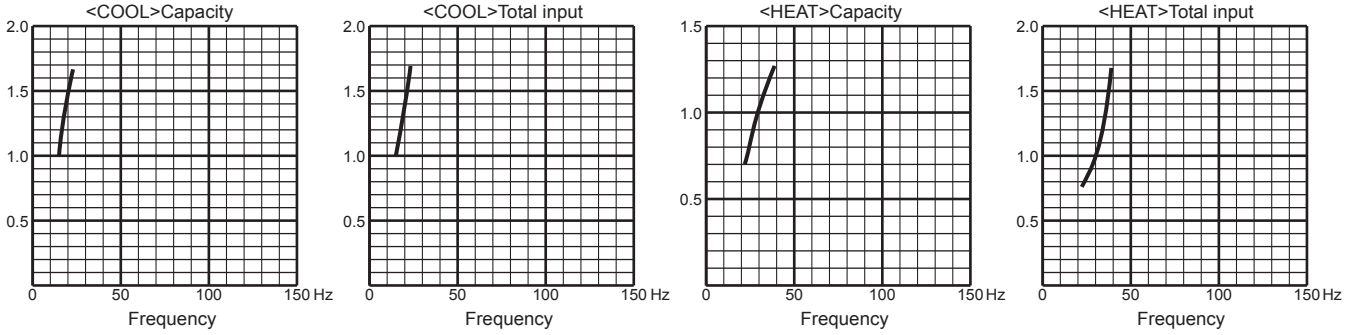


MXZ-2E53VAHZ

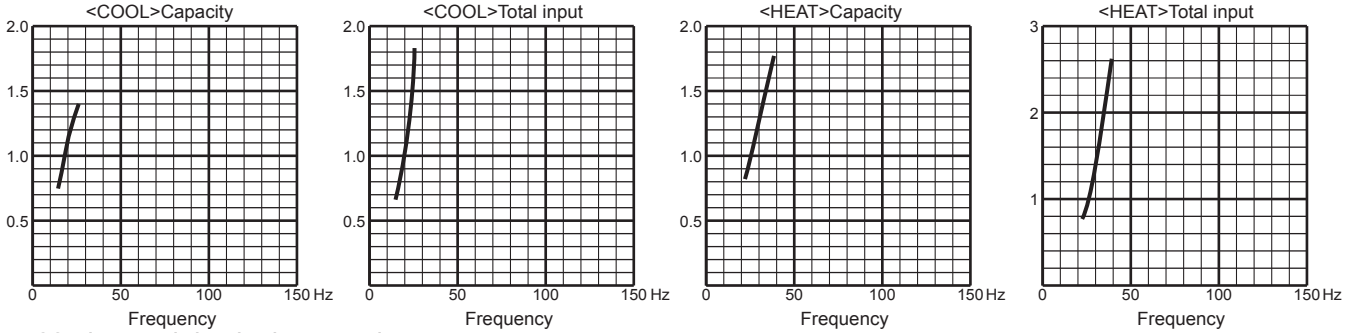
1. 15-class unit in single operation



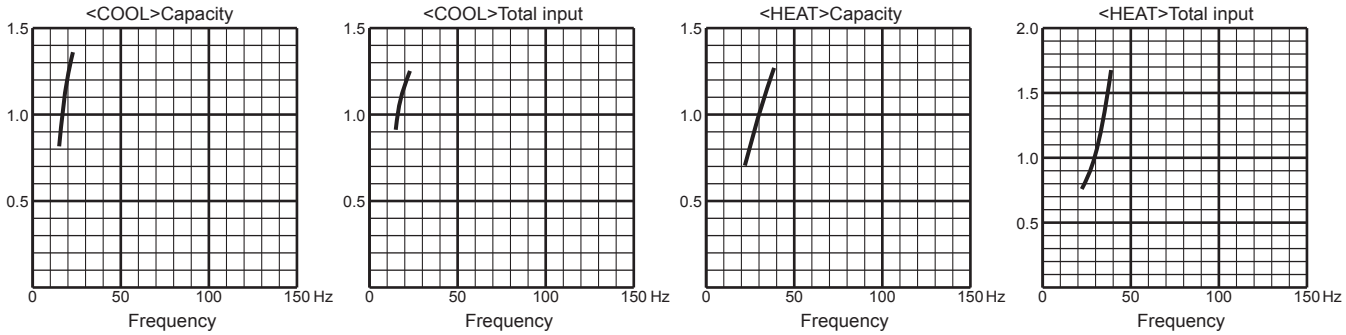
2. 18-class unit in single operation



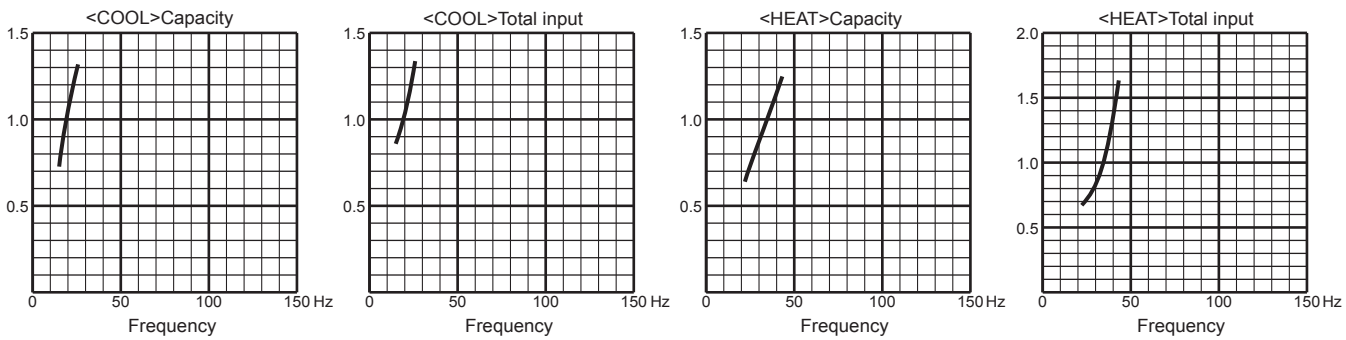
3. 20-class unit in single operation



4. 22-class unit in single operation

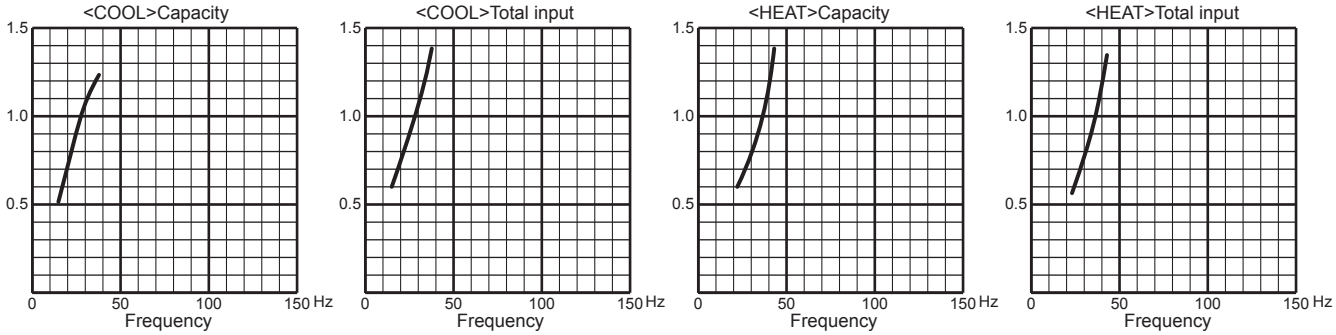


5. 25-class unit in single operation

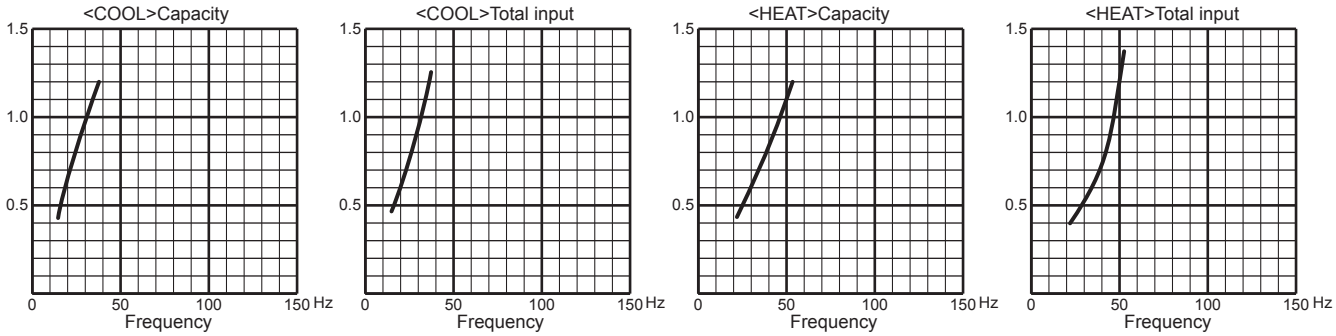


MXZ-2E53VAHZ

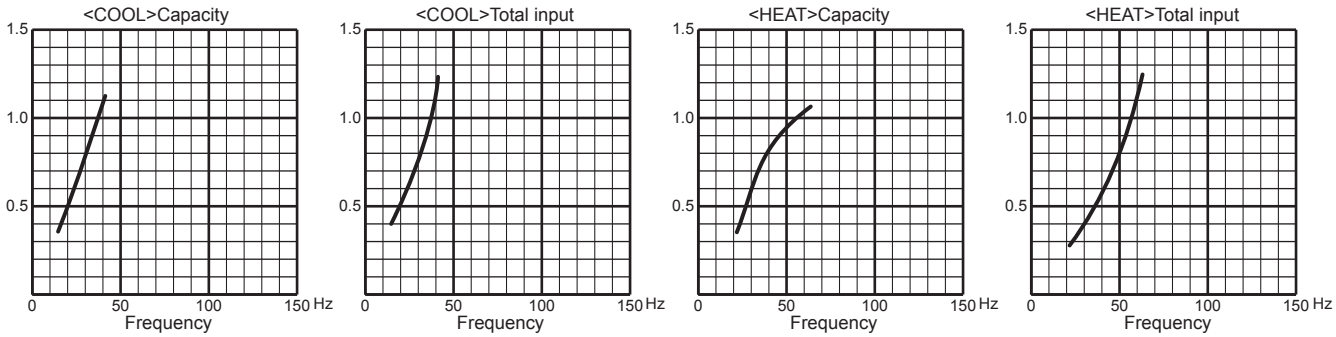
6. 35-class unit in single operation



7. 42-class unit in single operation

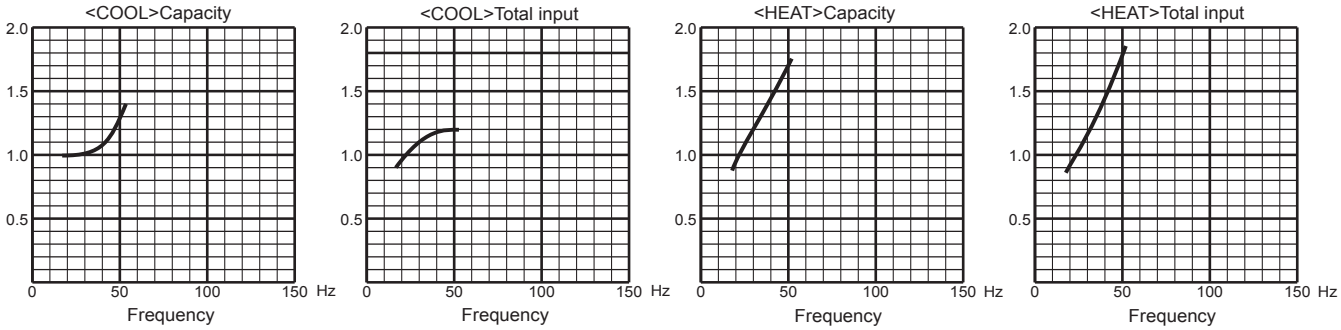


8. 50-class unit in single operation

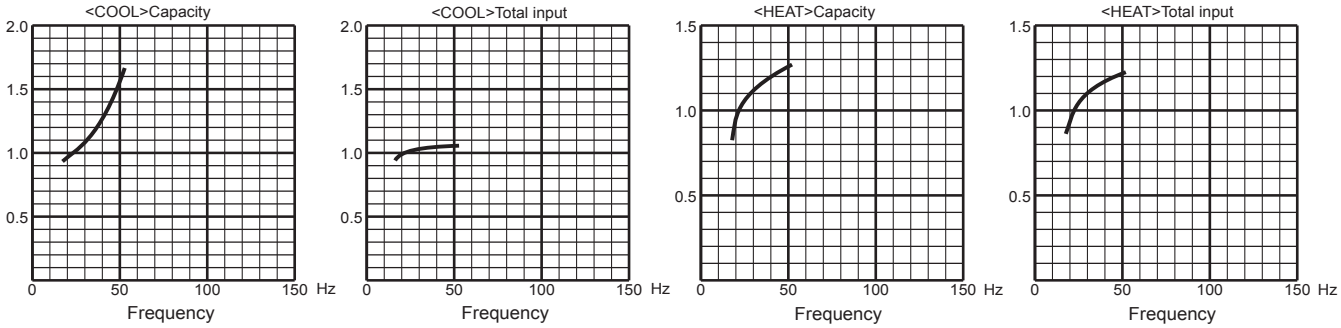


MXZ-4E83VAHZ

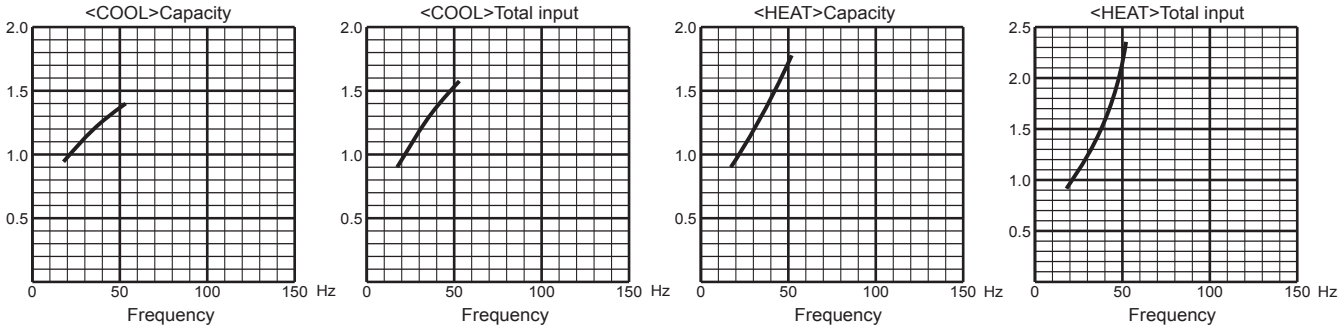
1. 15-class unit in single operation



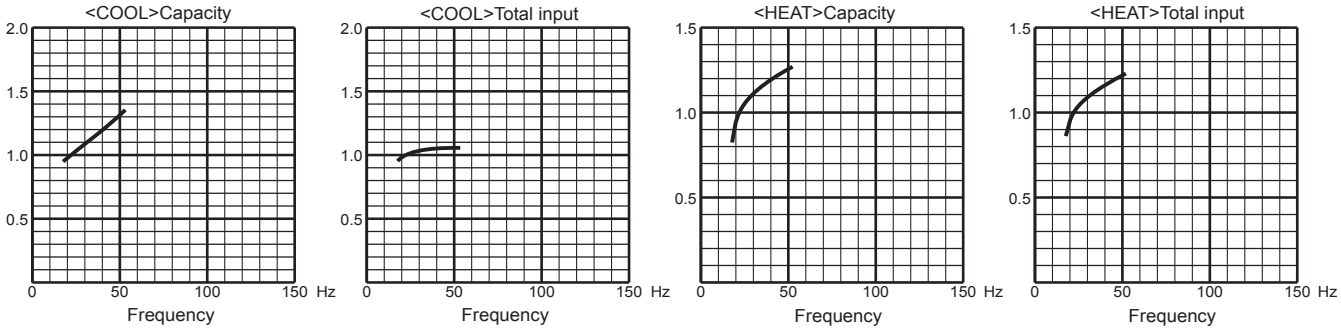
2. 18-class unit in single operation



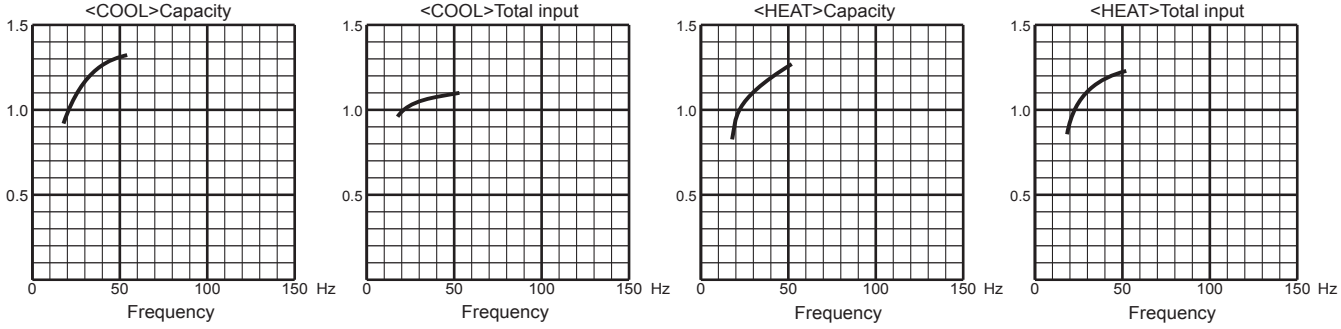
3. 20-class unit in single operation



4. 22-class unit in single operation

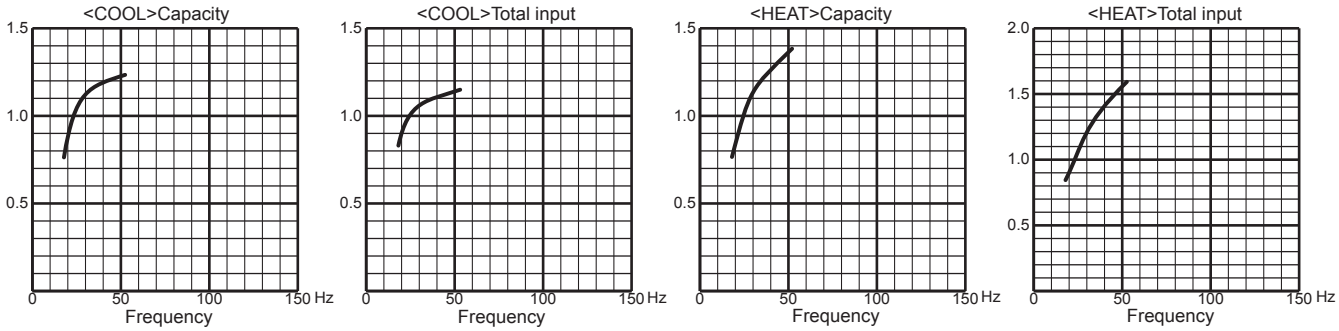


5. 25-class unit in single operation

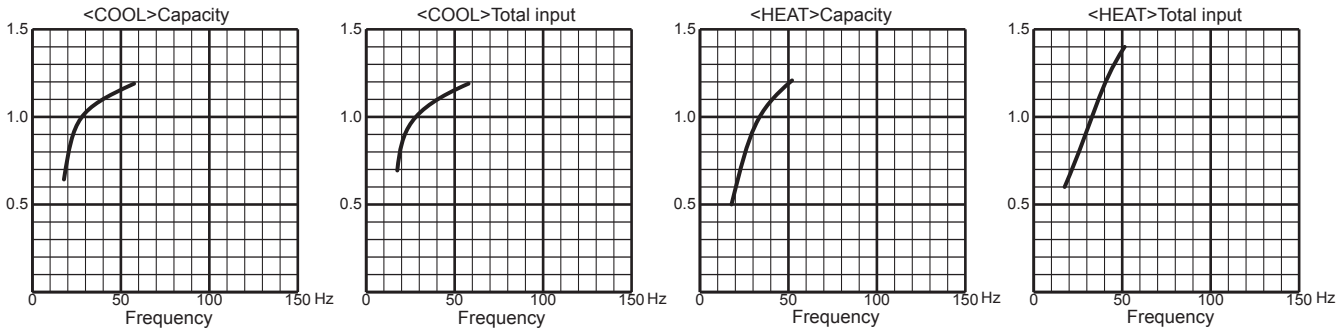


MXZ-4E83VAHZ

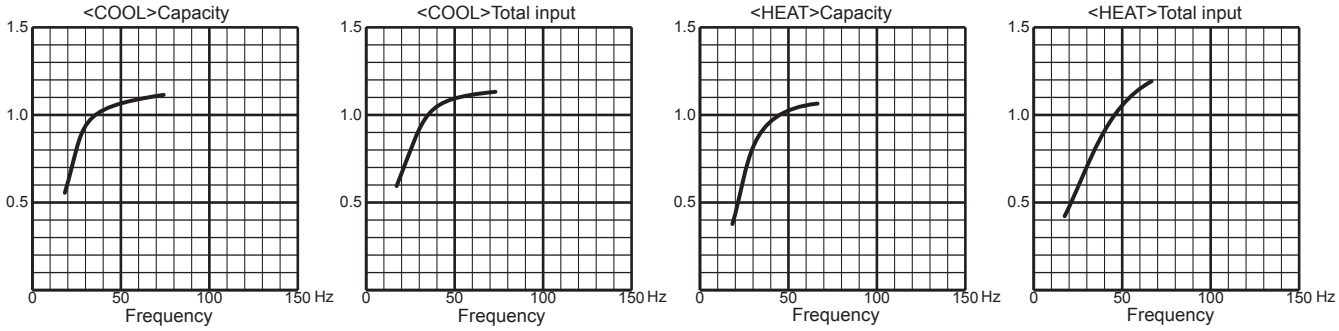
6. 35-class unit in single operation



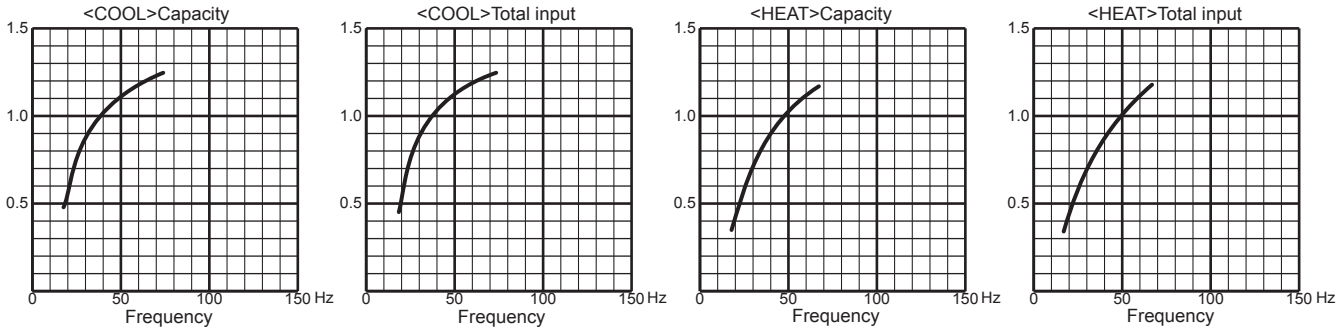
7. 42-class unit in single operation



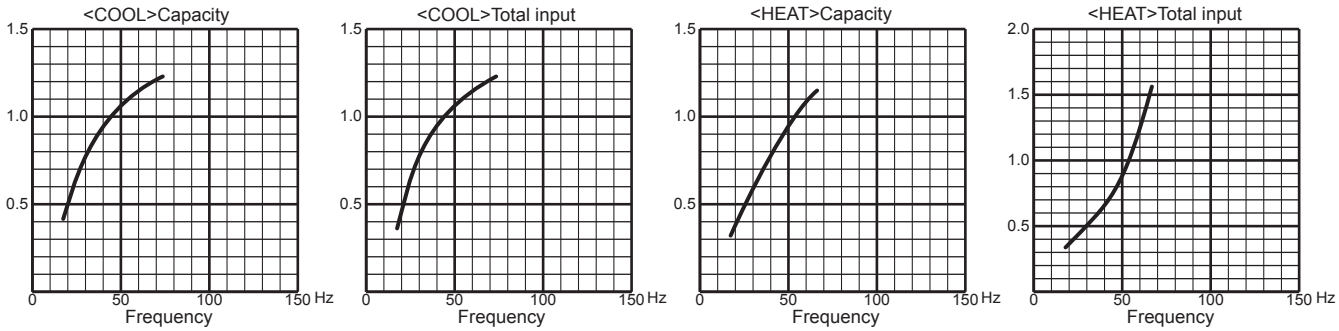
8. 50-class unit in single operation



9. 60-class unit in single operation



10. 71-class unit in single operation



TEST RUN OPERATION (How to operate fixed-frequency operation)

1. Press EMERGENCY OPERATION switch to COOL or HEAT mode (COOL: Press once, HEAT: Press twice).
2. Test run operation starts and continues to operate for 30 minutes.
3. Compressor operates at rated frequency.
4. Indoor fan operates at High speed.
5. After 30 minutes, test run operation finishes and EMERGENCY OPERATION starts (Operation frequency of compressor varies).
6. To cancel test run operation (EMERGENCY OPERATION), press EMERGENCY OPERATION switch or any button on remote controller.

OUTDOOR LOW PRESSURE AND OUTDOOR UNIT CURRENT (single operation)

NOTE: The unit of pressure has been changed to MPa on the international system of units (SI unit system).
The conversion factor is: **1 (MPa [Gauge]) = 10.2 (kgf/cm² [Gauge])**

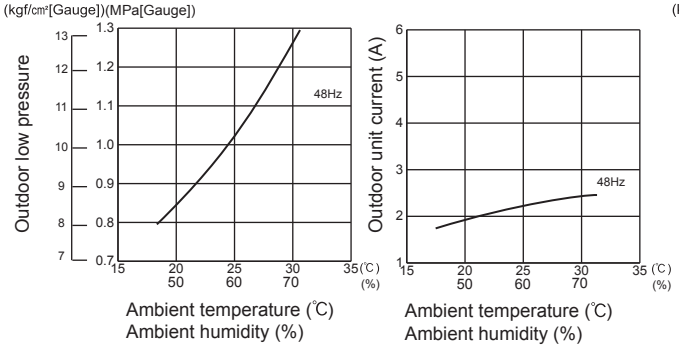
COOL operation

① Both indoor and outdoor unit are under the same temperature/humidity condition.
② Operation: TEST RUN OPERATION

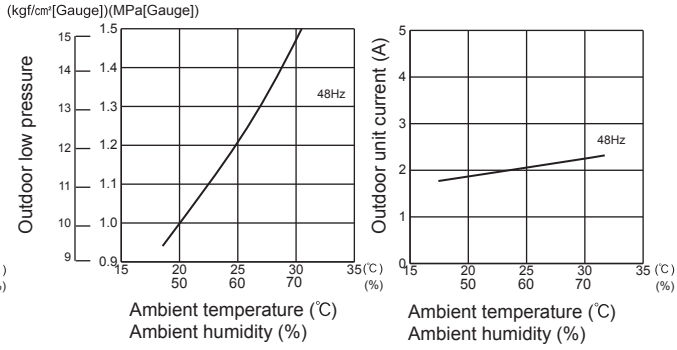
Dry-bulb temperature (℃)	Relative humidity (%)
20	50
25	60
30	70

MXZ-2D33VA

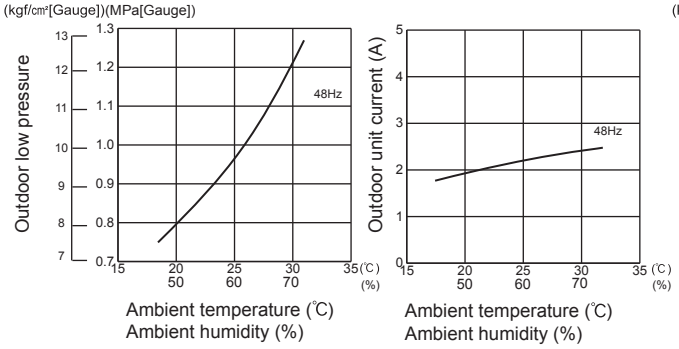
1. 15-class unit in single operation



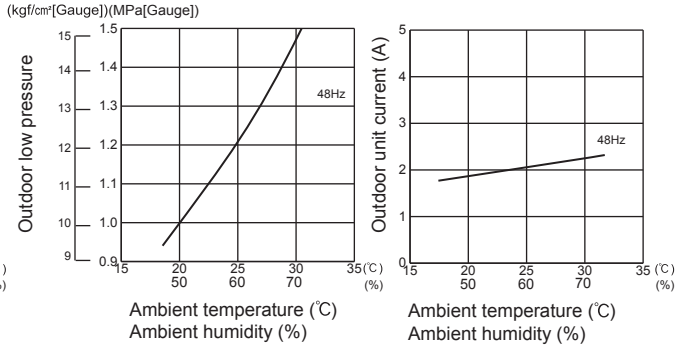
2. 18-class unit in single operation



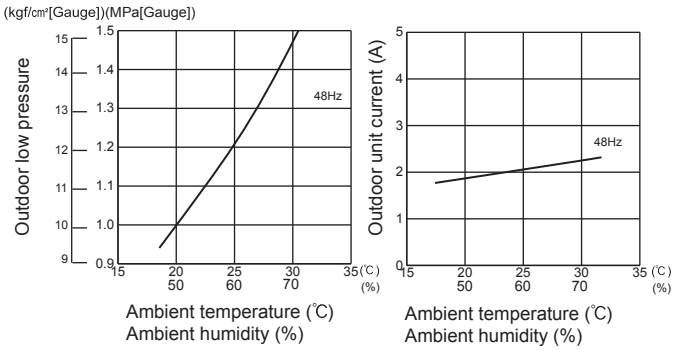
3. 20-class unit in single operation



4. 22-class unit in single operation

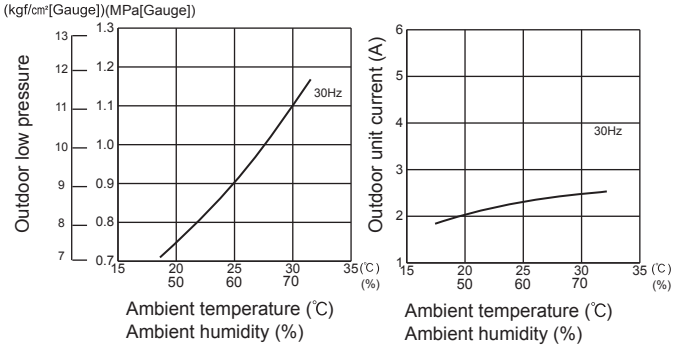


5. 25-class unit in single operation

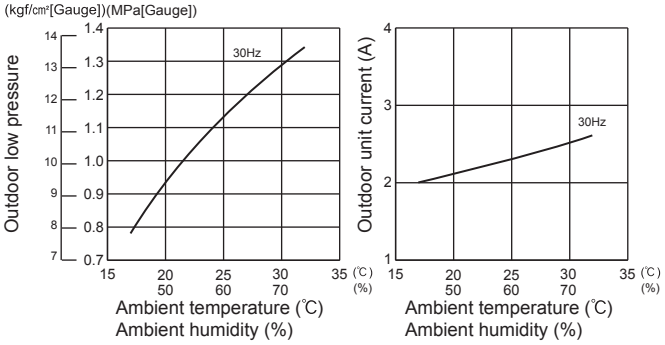


MXZ-2D42VA2 MXZ-2D53VA2 MXZ-2D53VAH2

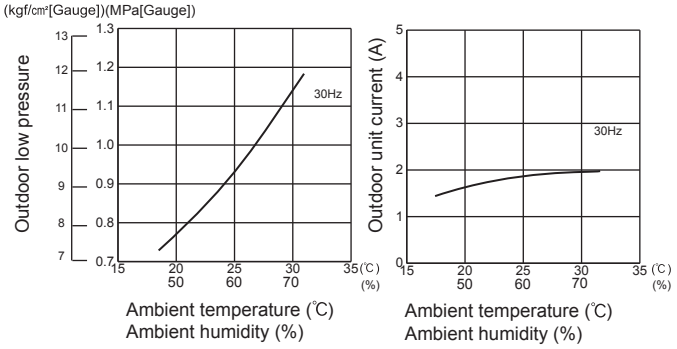
1. 15-class unit in single operation



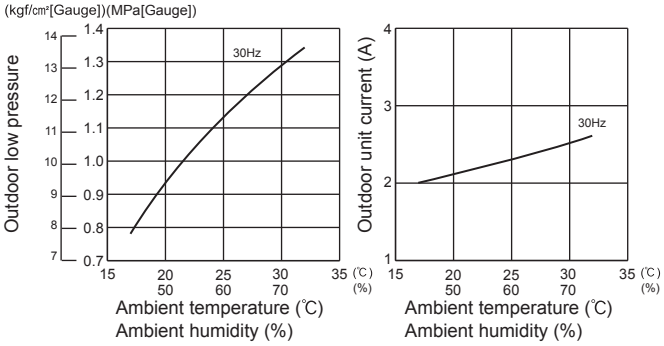
2. 18-class unit in single operation



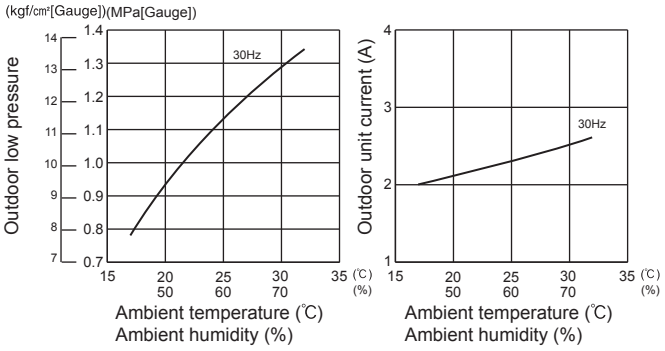
3. 20-class unit in single operation



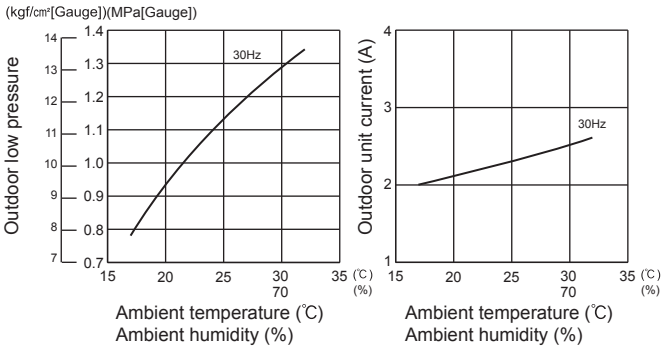
4. 22-class unit in single operation



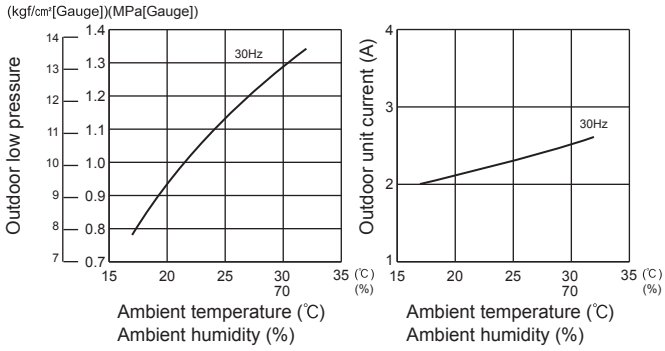
5. 25-class unit in single operation



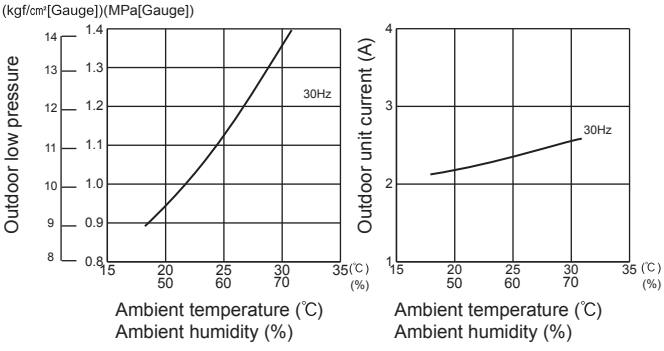
6. 35-class unit in single operation



7. 42-class unit in single operation

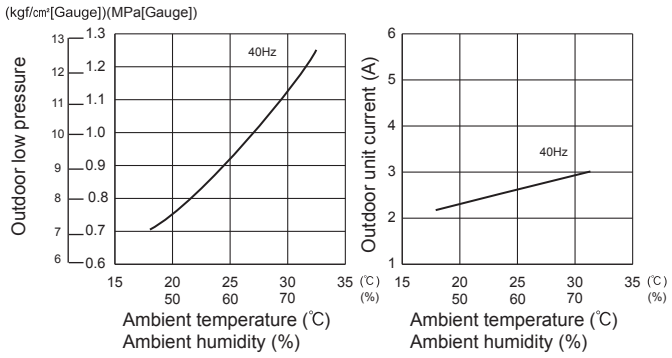


8. 50-class unit in single operation

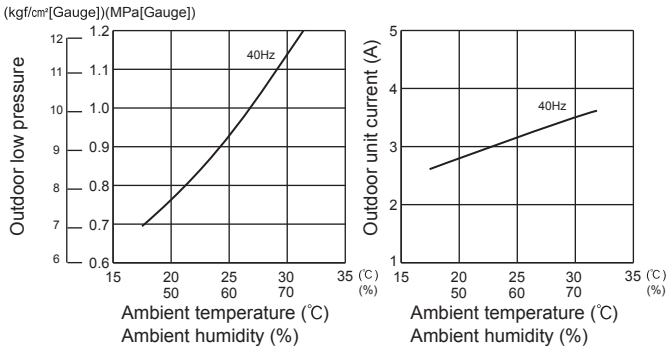


MXZ-3E54VA

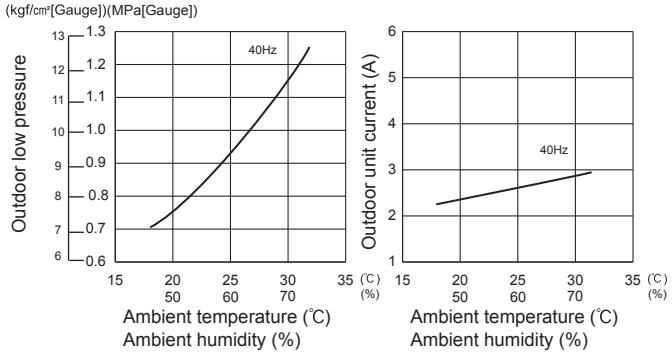
1. 15-class unit in single operation



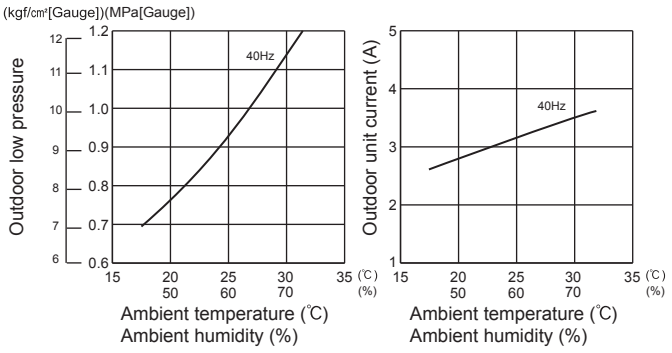
2. 18-class unit in single operation



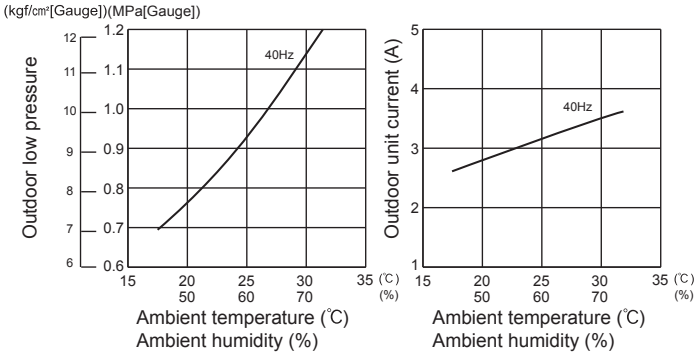
3. 20-class unit in single operation



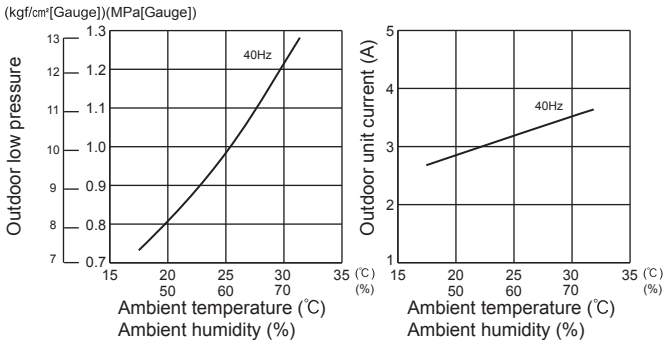
4. 22-class unit in single operation



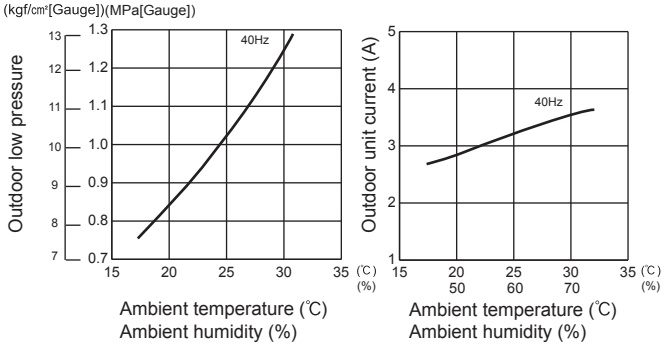
5. 25-class unit in single operation



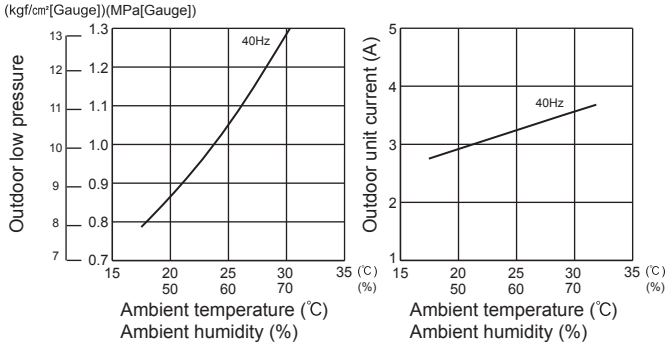
6. 35-class unit in single operation



7. 42-class unit in single operation

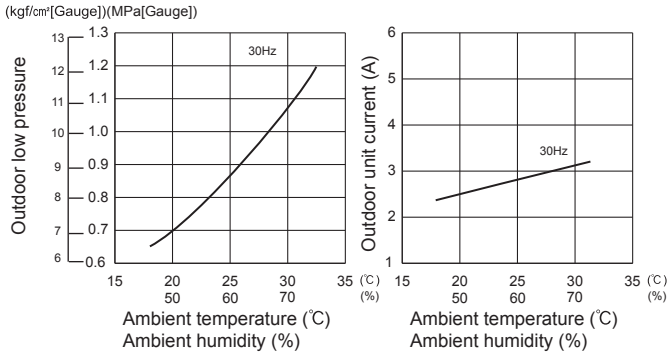


8. 50-class unit in single operation

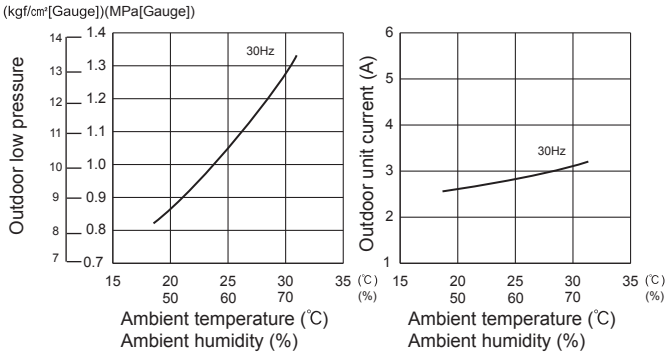


MXZ-3E68VA MXZ-4E72VA

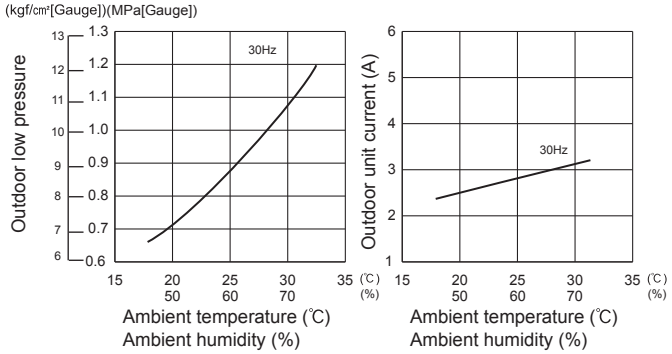
1. 15-class unit in single operation



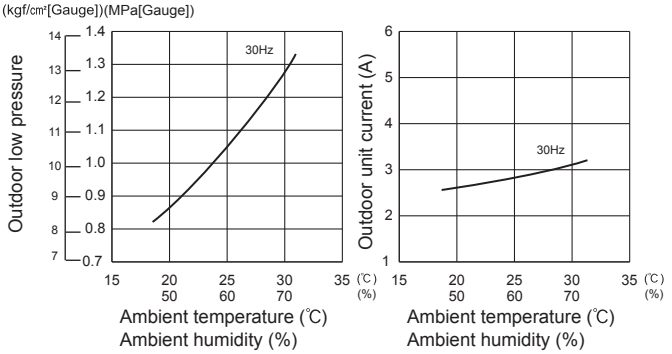
2. 18-class unit in single operation



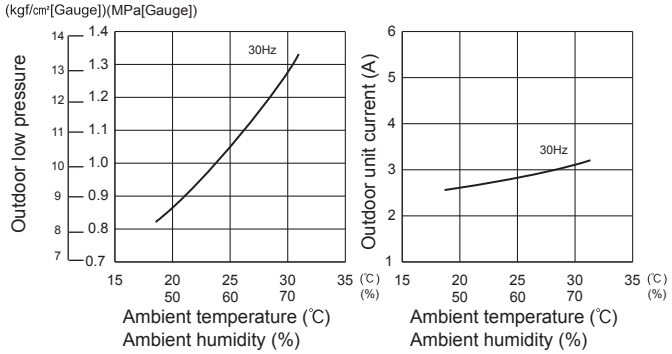
3. 20-class unit in single operation



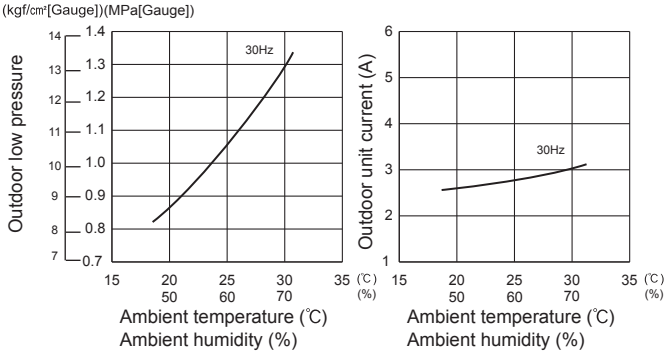
4. 22-class unit in single operation



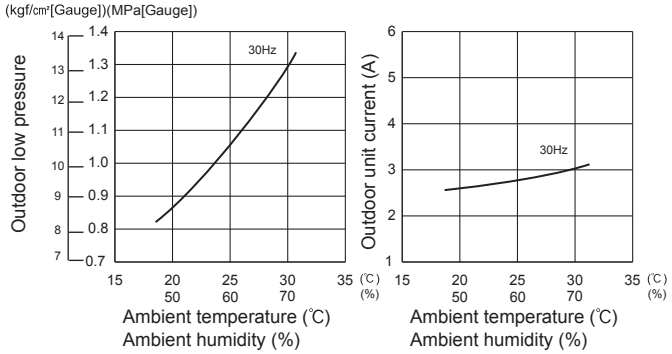
5. 25-class unit in single operation



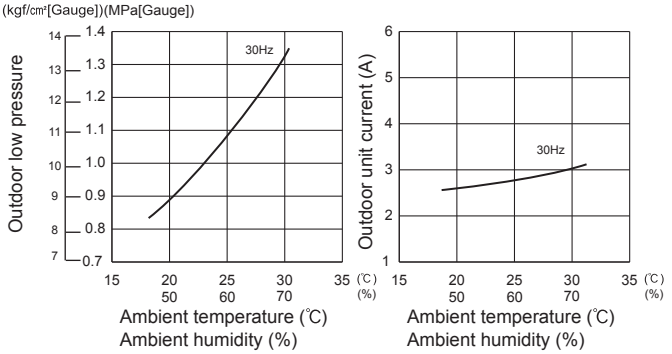
6. 35-class unit in single operation



7. 42-class unit in single operation

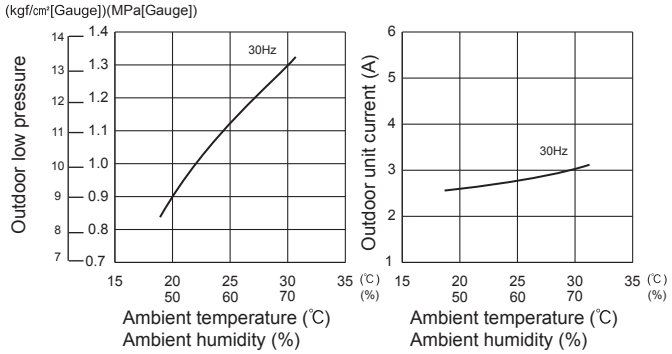


8. 50-class unit in single operation



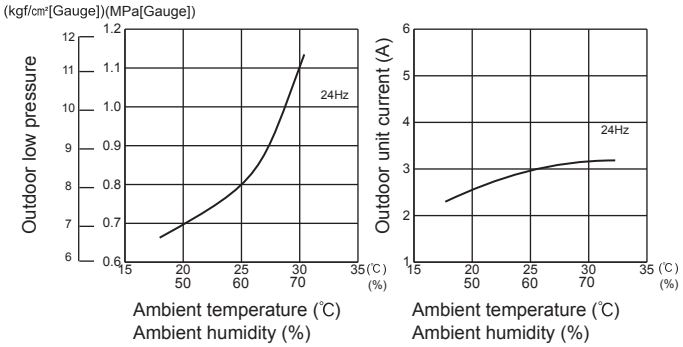
MXZ-3E68VA MXZ-4E72VA

9. 60-class unit in single operation

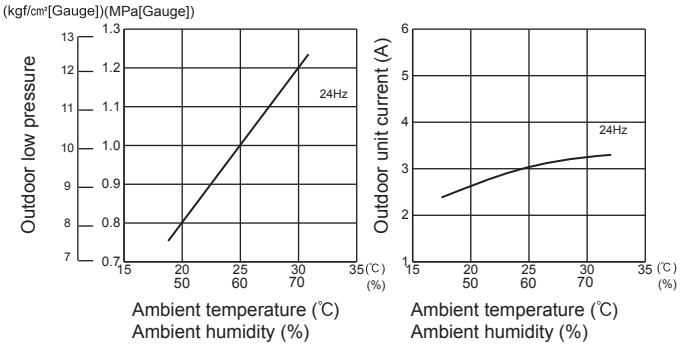


MXZ-4E83VA

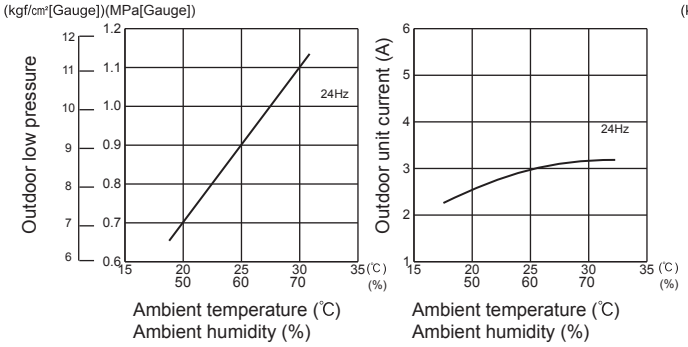
1. 15-class unit in single operation



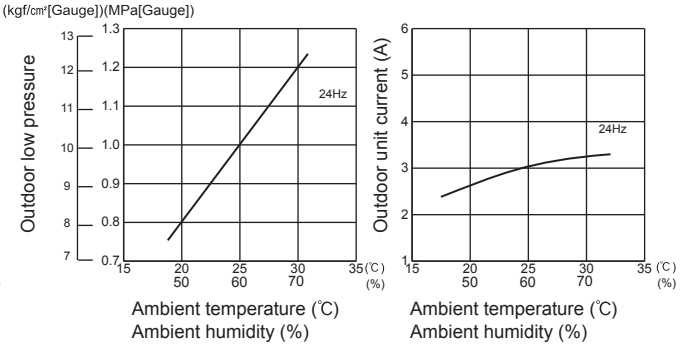
2. 18-class unit in single operation



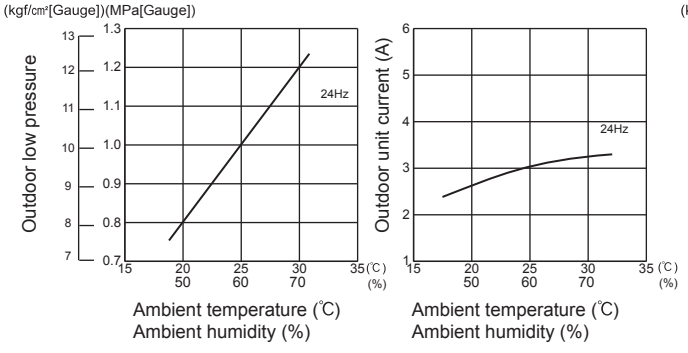
3. 20-class unit in single operation



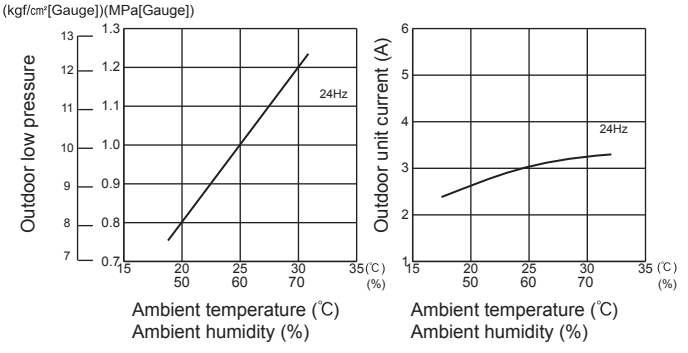
4. 22-class unit in single operation



5. 25-class unit in single operation

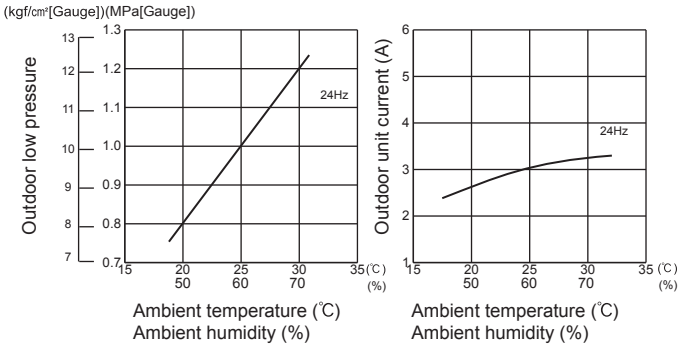


6. 35-class unit in single operation

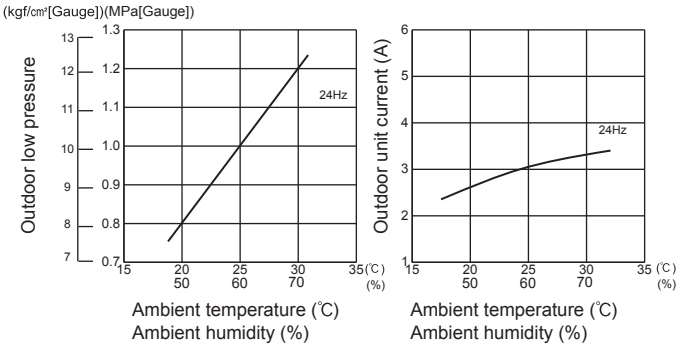


MXZ-4E83VA

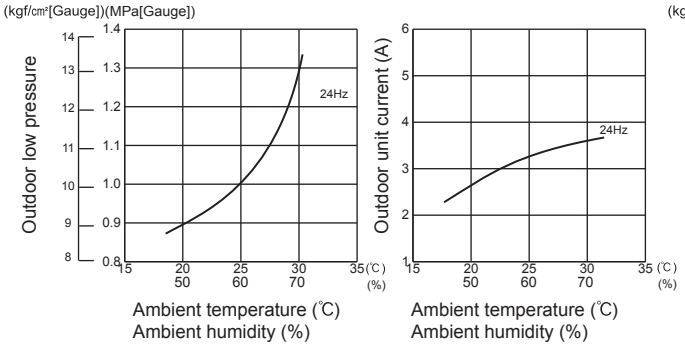
7. 42-class unit in single operation



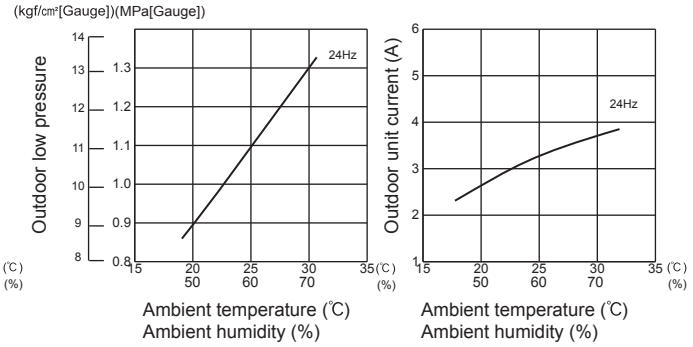
8. 50-class unit in single operation



9. 60-class unit in single operation

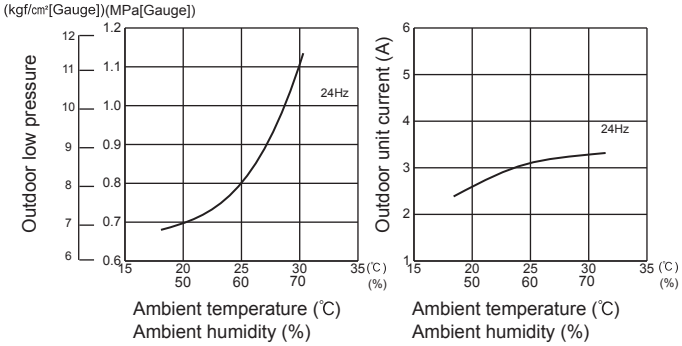


10. 71-class unit in single operation

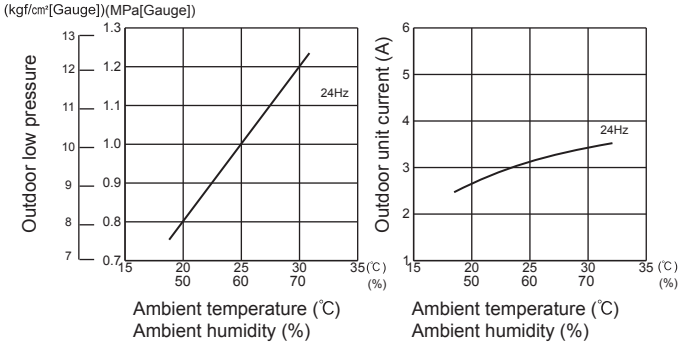


MXZ-5E102VA

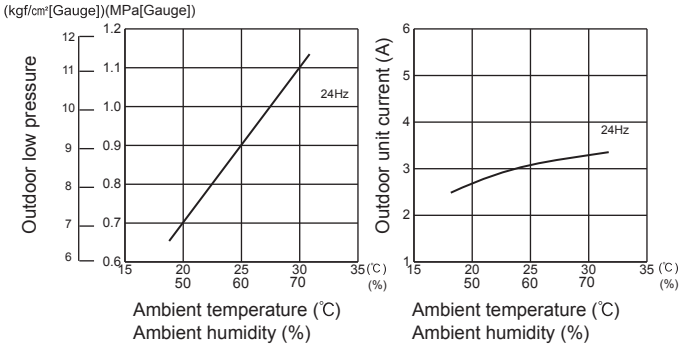
1. 15-class unit in single operation



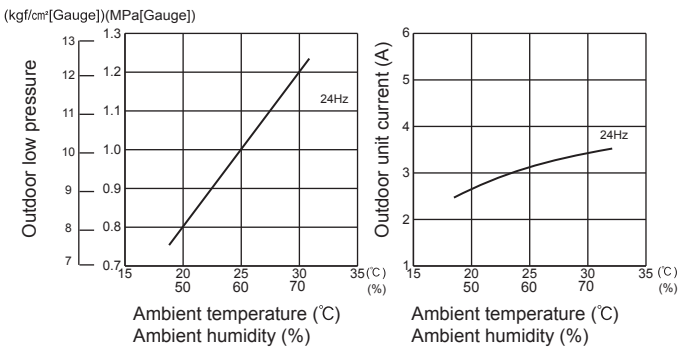
2. 18-class unit in single operation



3. 20-class unit in single operation

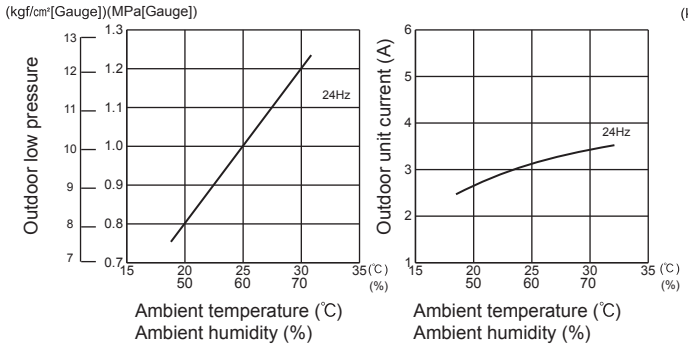


4. 22-class unit in single operation

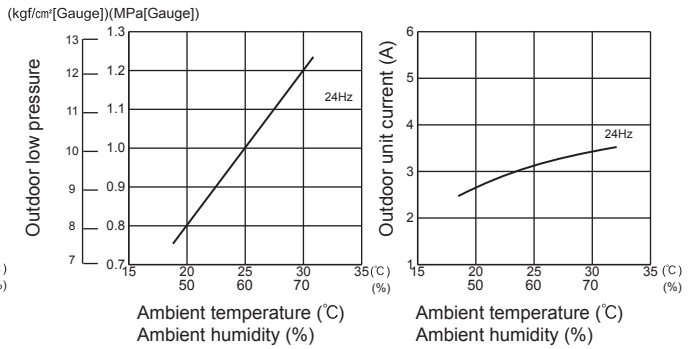


MXZ-5E102VA

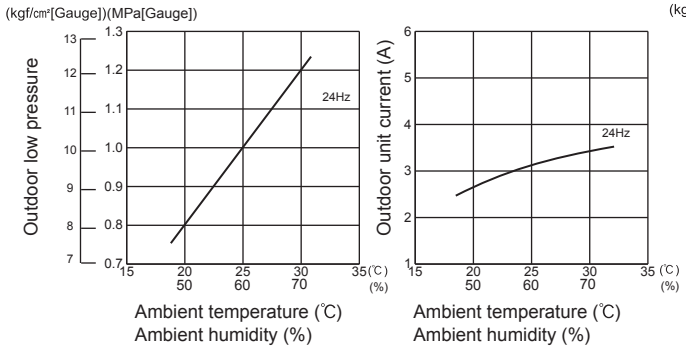
5. 25-class unit in single operation



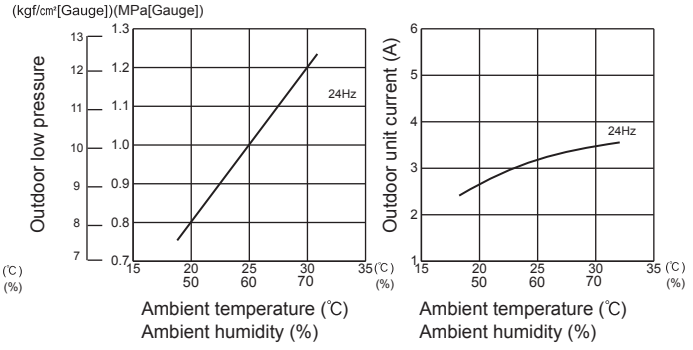
6. 35-class unit in single operation



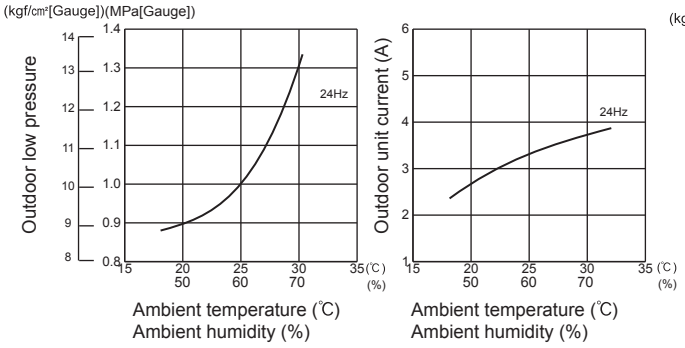
7. 42-class unit in single operation



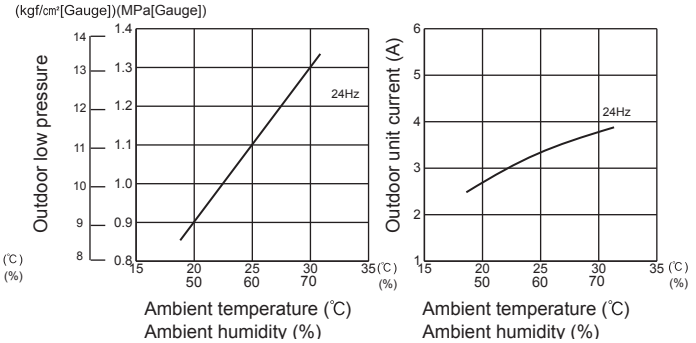
8. 50-class unit in single operation



9. 60-class unit in single operation

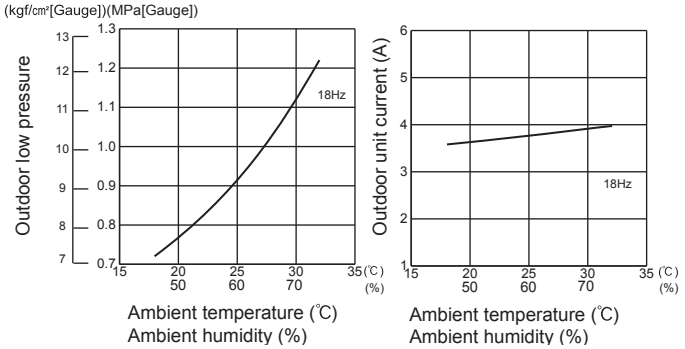


10. 71-class unit in single operation

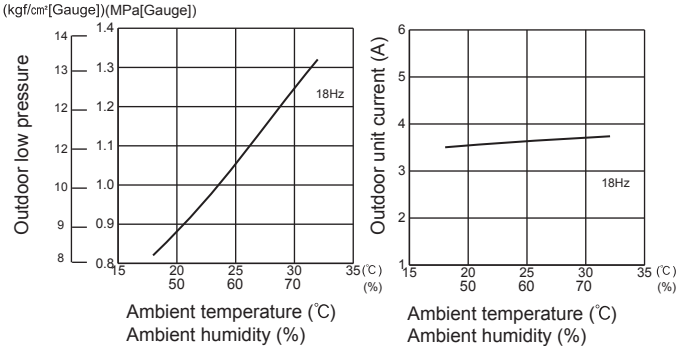


MXZ-6D122VA

1. 15-class unit in single operation

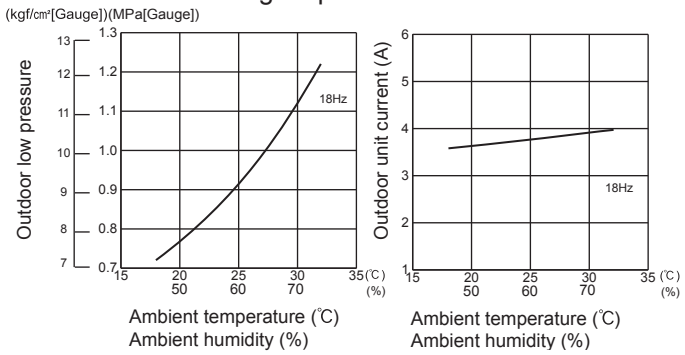


2. 18-class unit in single operation

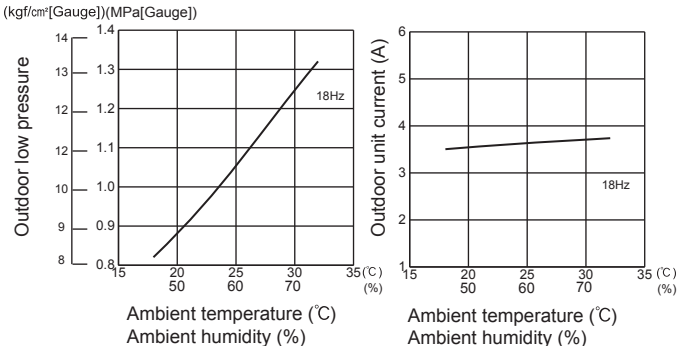


MXZ-6D122VA

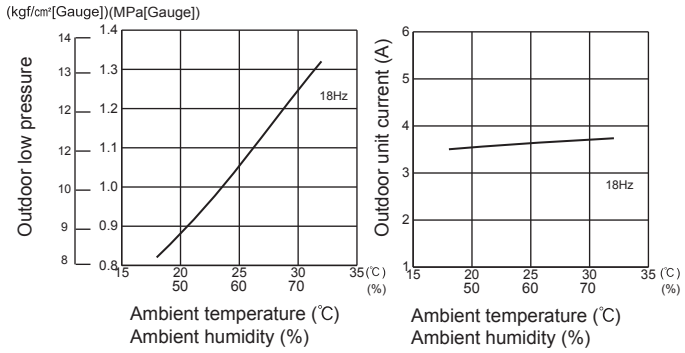
3. 20-class unit in single operation



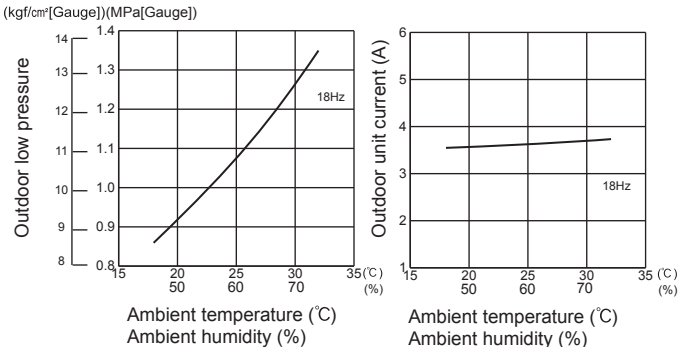
4. 22-class unit in single operation



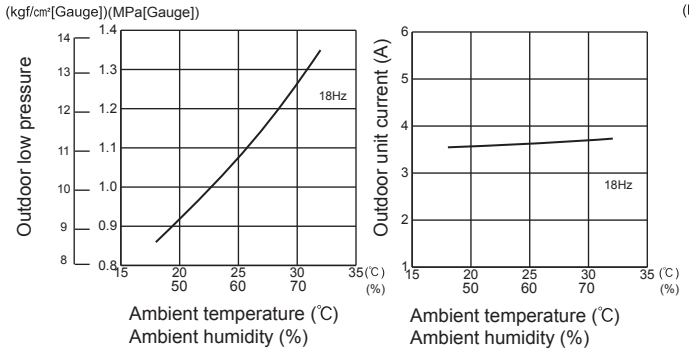
5. 25-class unit in single operation



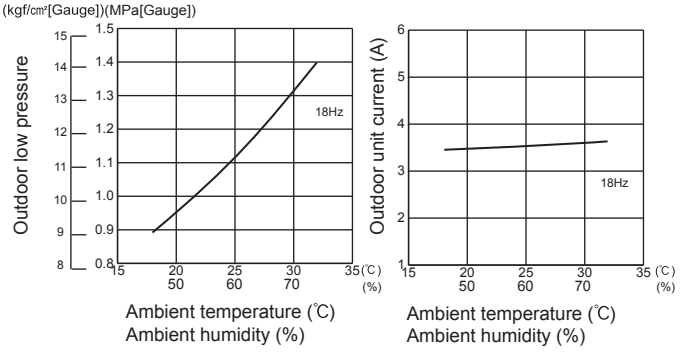
6. 35-class unit in single operation



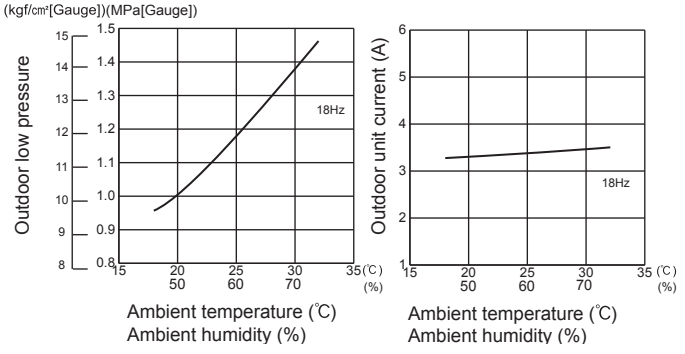
7. 42-class unit in single operation



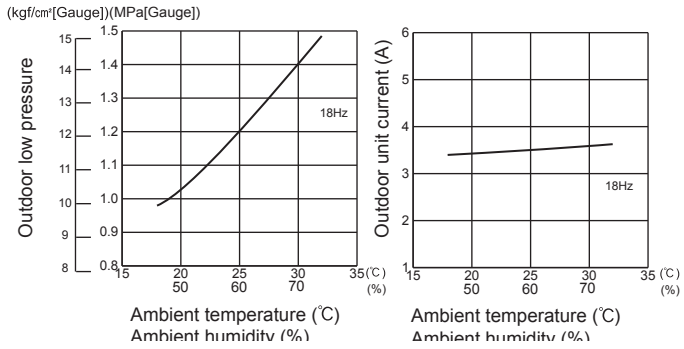
8. 50-class unit in single operation



9. 60-class unit in single operation

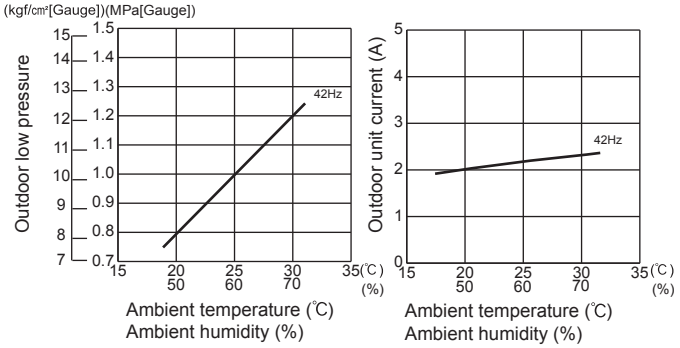


10. 71-class unit in single operation

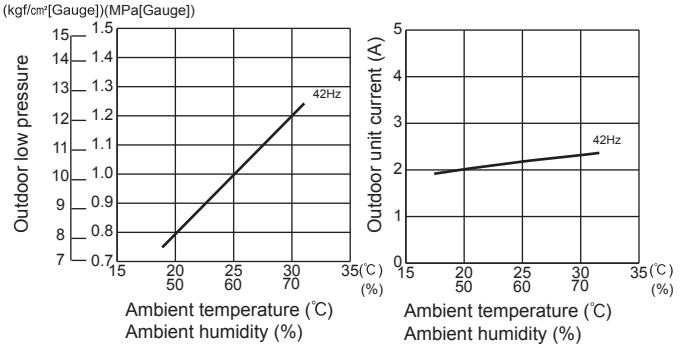


MXZ-2DM40VA

1. 25-class unit in single operation

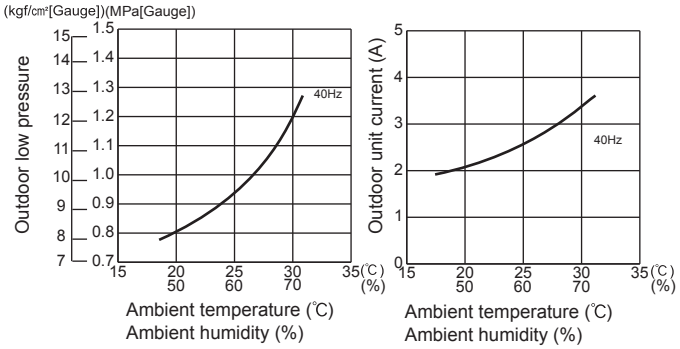


2. 35-class unit in single operation

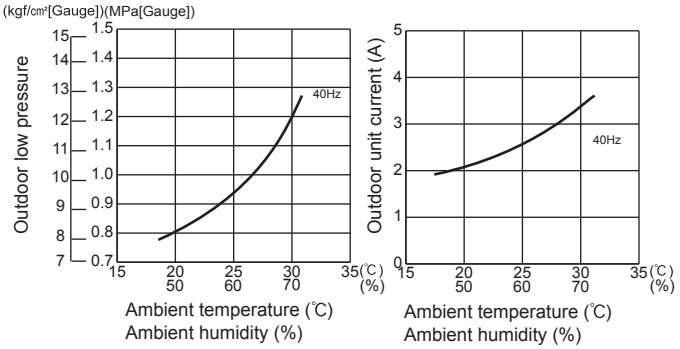


MXZ-3DM50VA

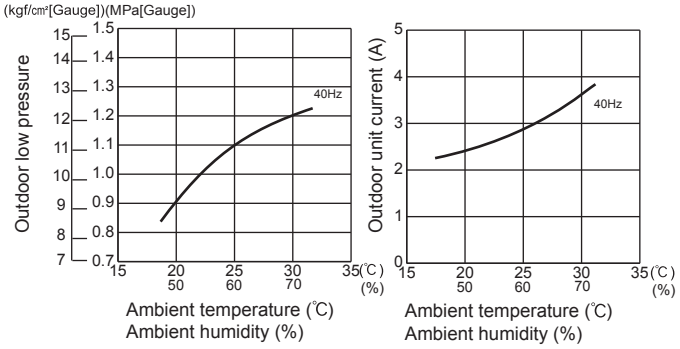
1. 25-class unit in single operation



2. 35-class unit in single operation

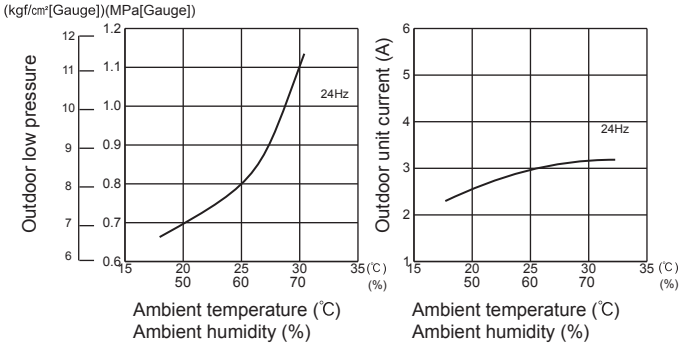


3. 50-class unit in single operation

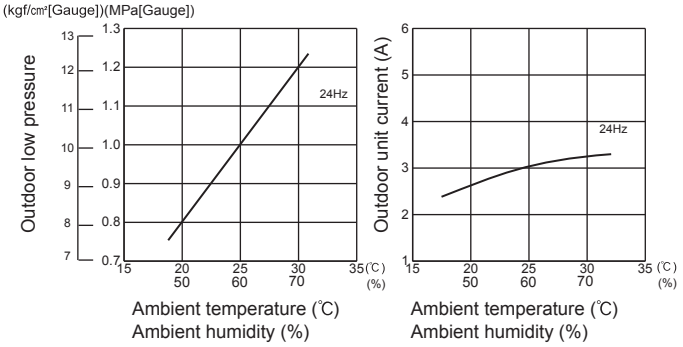


MXZ-2E53VAHZ

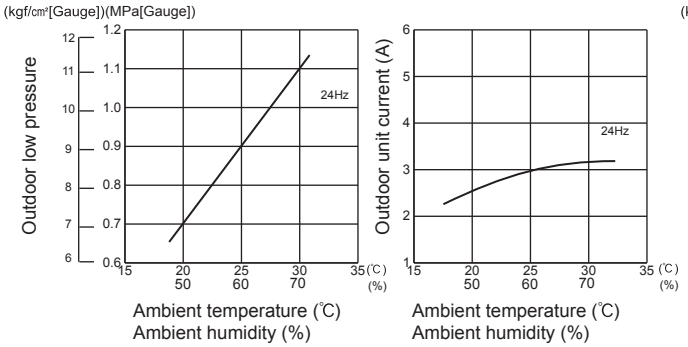
1. 15-class unit in single operation



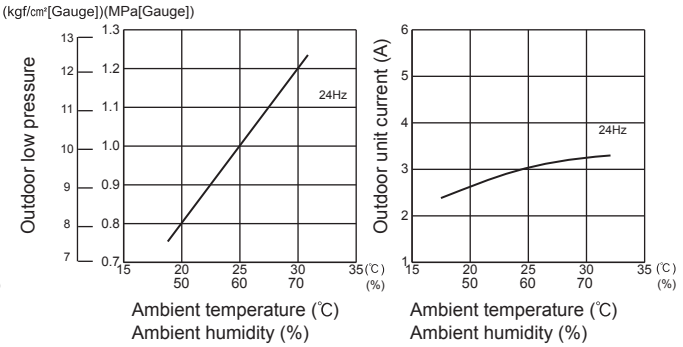
2. 18-class unit in single operation



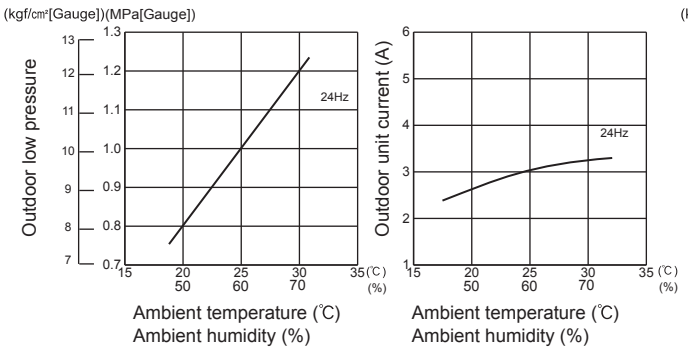
3. 20-class unit in single operation



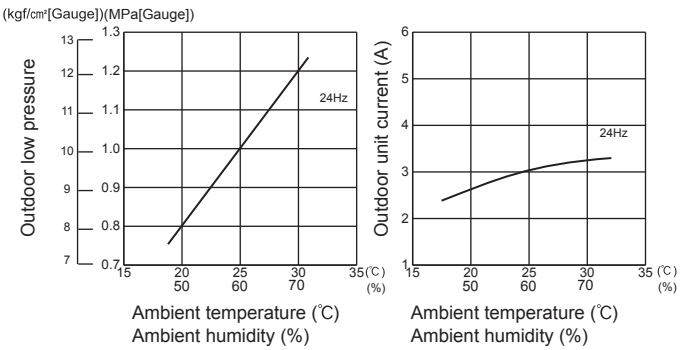
4. 22-class unit in single operation



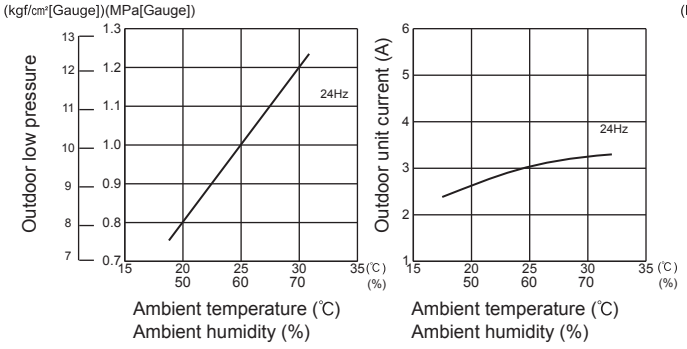
5. 25-class unit in single operation



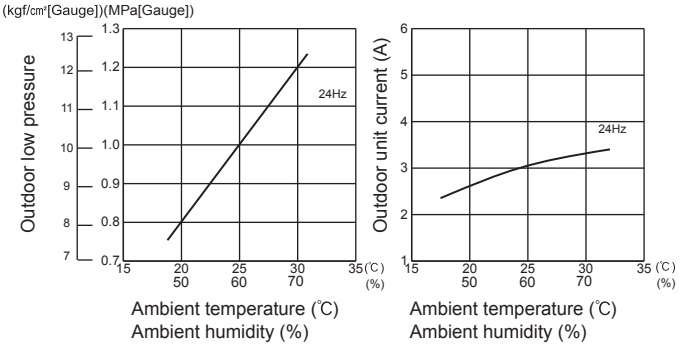
6. 35-class unit in single operation



7. 42-class unit in single operation

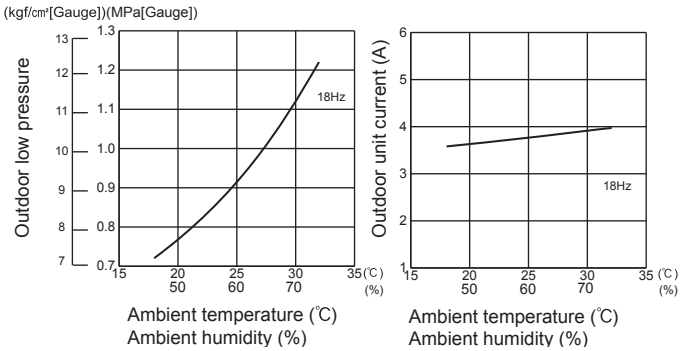


8. 50-class unit in single operation

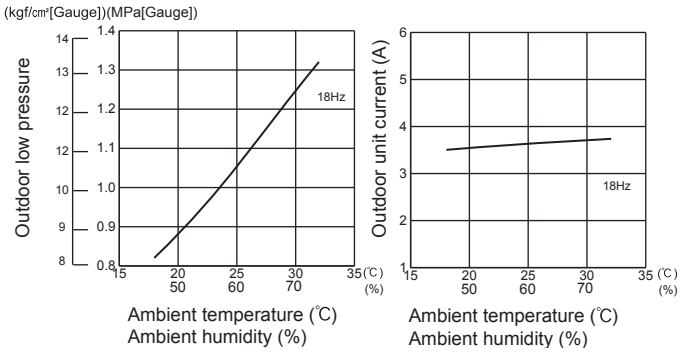


MXZ-4E83VAHZ

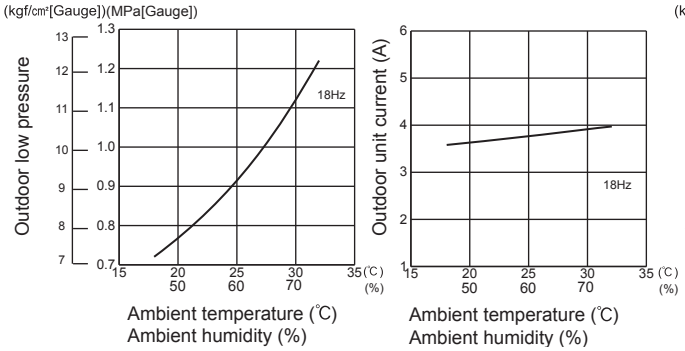
1. 15-class unit in single operation



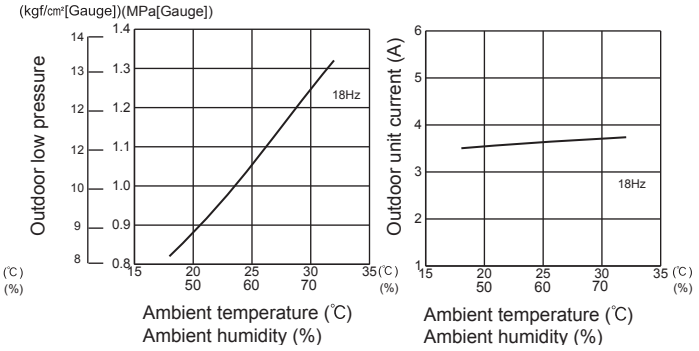
2. 18-class unit in single operation



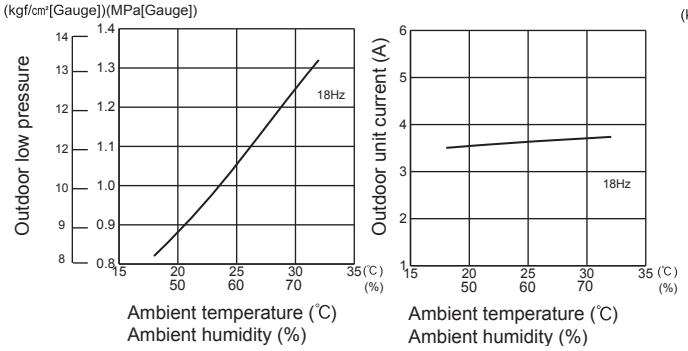
3. 20-class unit in single operation



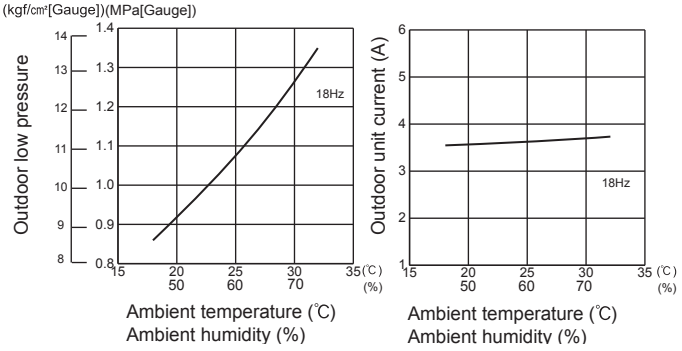
4. 22-class unit in single operation



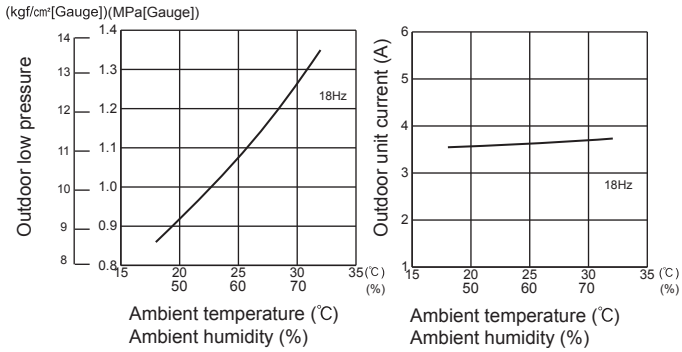
5. 25-class unit in single operation



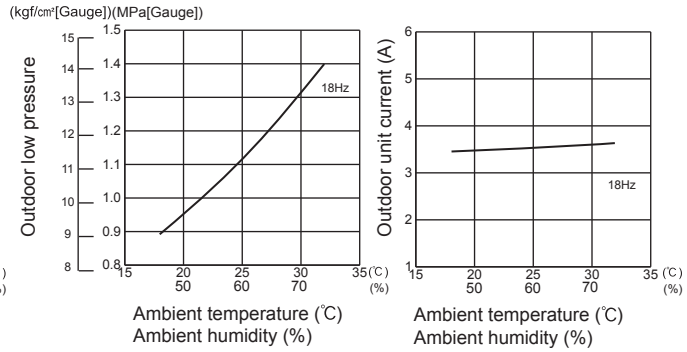
6. 35-class unit in single operation



7. 42-class unit in single operation

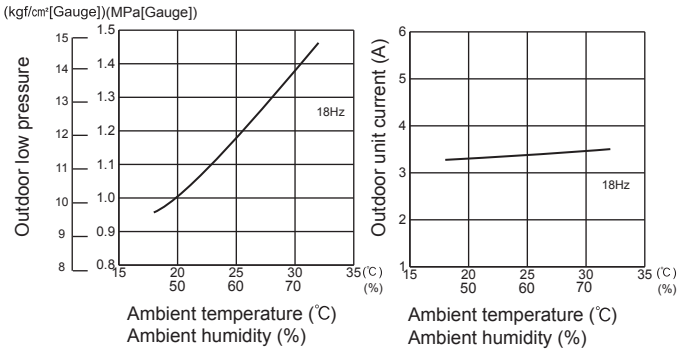


8. 50-class unit in single operation

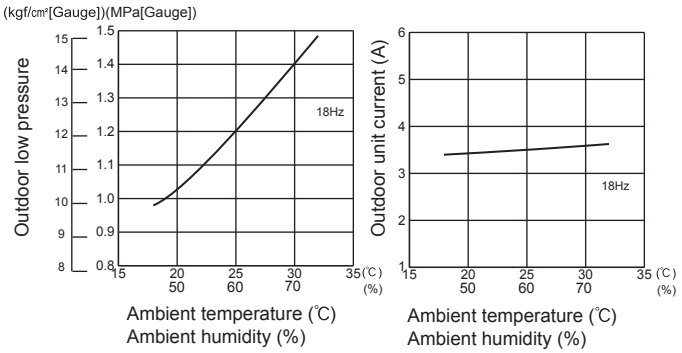


MXZ-4E83VAHZ

9. 60-class unit in single operation



10. 71-class unit in single operation



HEAT operation

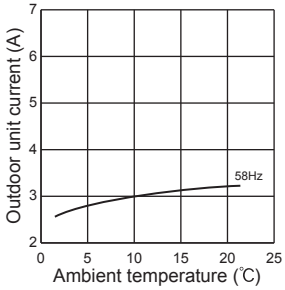
① Condition:

	Indoor	Outdoor			
Dry bulb temperature (°C)	20.0	2	7	15	20.0
Wet bulb temperature (°C)	14.5	1	6	12	14.5

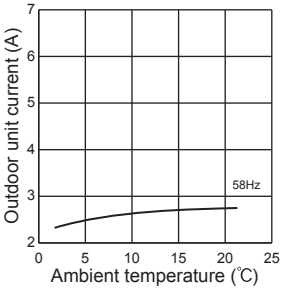
② Operation: TEST RUN OPERATION

MXZ-2D33VA

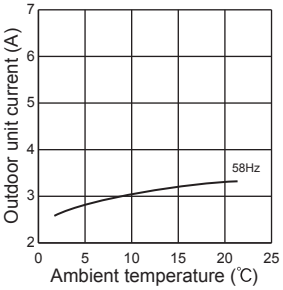
1. 15-class unit in single operation



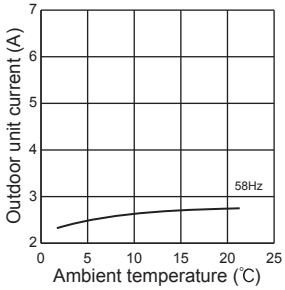
2. 18-class unit in single operation



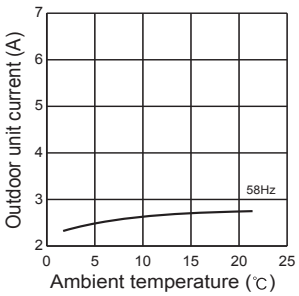
3. 20-class unit in single operation



4. 22-class unit in single operation

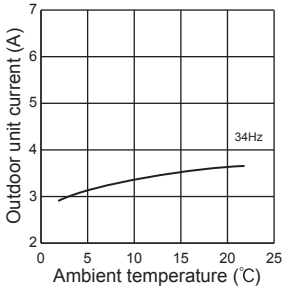


5. 25-class unit in single operation

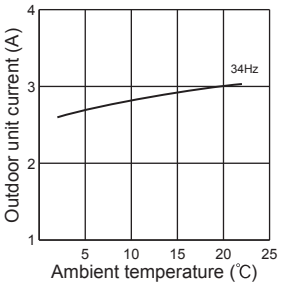


MXZ-2D42VA2 MXZ-2D53VA2 MXZ-2D53VAH2

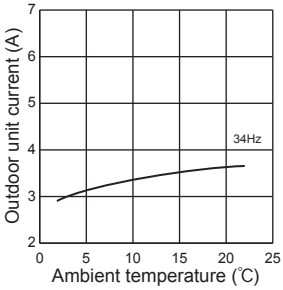
1. 15-class unit in single operation



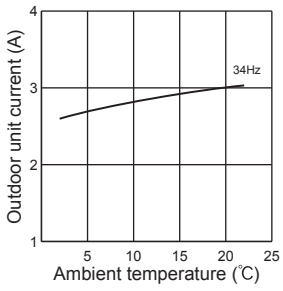
2. 18-class unit in single operation



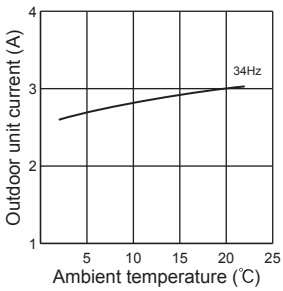
3. 20-class unit in single operation



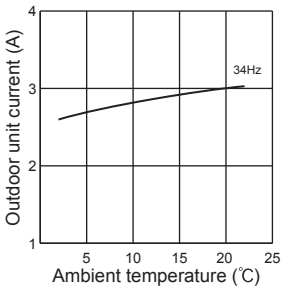
4. 22-class unit in single operation



5. 25-class unit in single operation

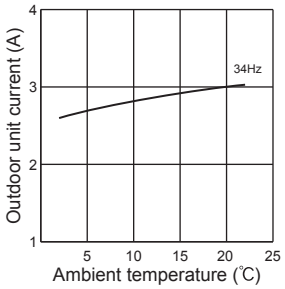


6. 35-class unit in single operation

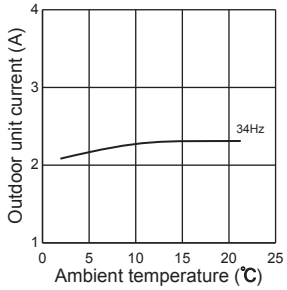


MXZ-2D42VA2 MXZ-2D53VA2 MXZ-2D53VAH2

7. 42-class unit in single operation

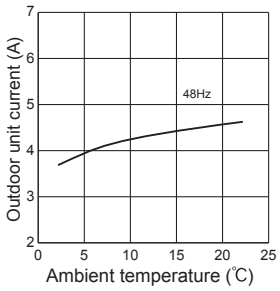


8. 50-class unit in single operation

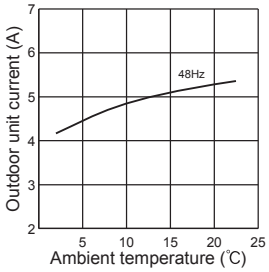


MXZ-3E54VA

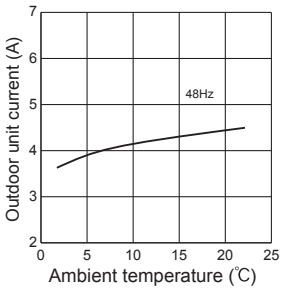
1. 15-class unit in single operation



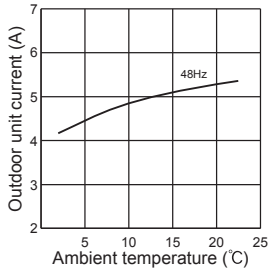
2. 18-class unit in single operation



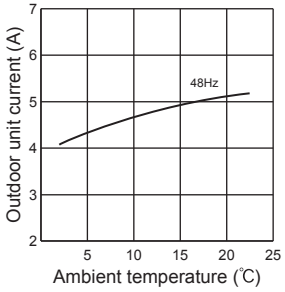
3. 20-class unit in single operation



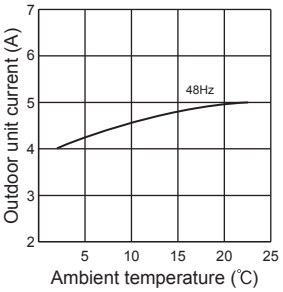
4. 22-class unit in single operation



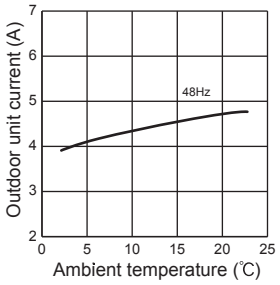
5. 25-class unit in single operation



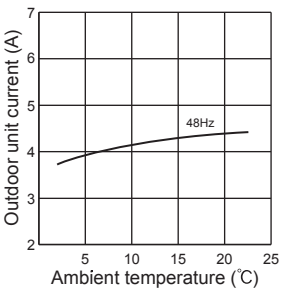
6. 35-class unit in single operation



7. 42-class unit in single operation

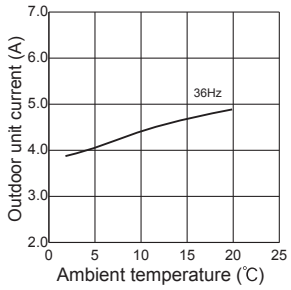


8. 50-class unit in single operation

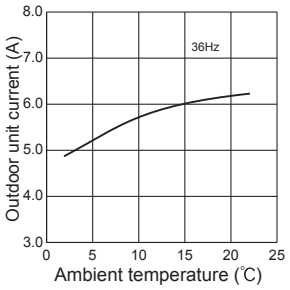


MXZ-3E68VA MXZ-4E72VA

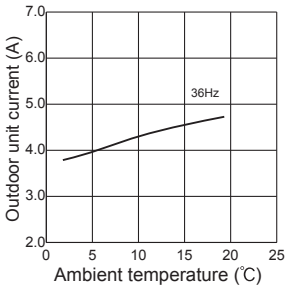
1. 15-class unit in single operation



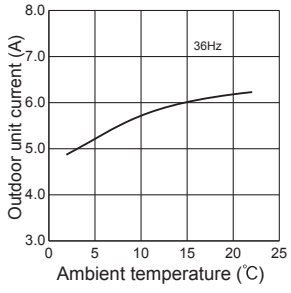
2. 18-class unit in single operation



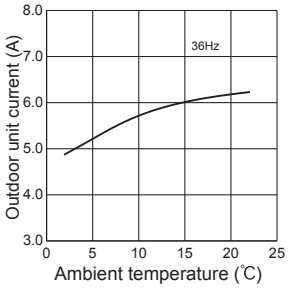
3. 20-class unit in single operation



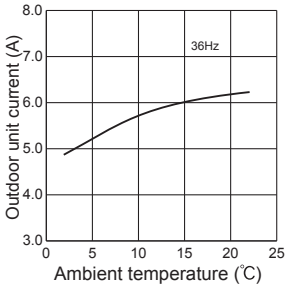
4. 22-class unit in single operation



5. 25-class unit in single operation

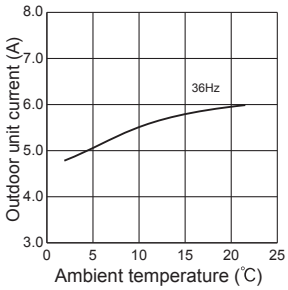


6. 35-class unit in single operation

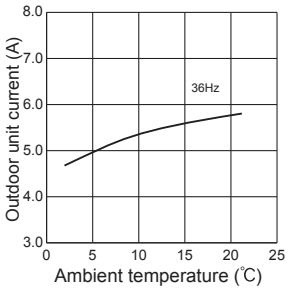


MXZ-3E68VA MXZ-4E72VA

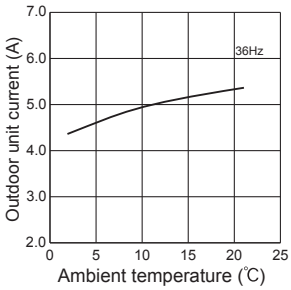
7. 42-class unit in single operation



8. 50-class unit in single operation

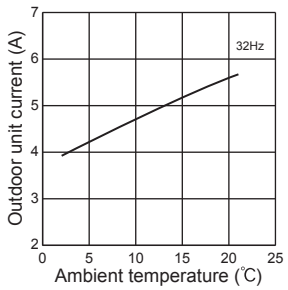


9. 60-class unit in single operation

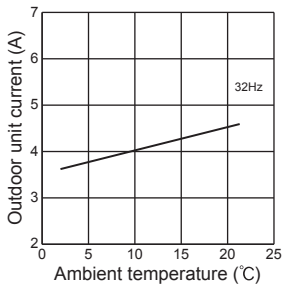


MXZ-4E83VA

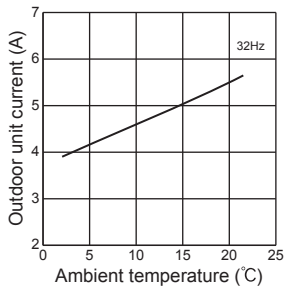
1. 15-class unit in single operation



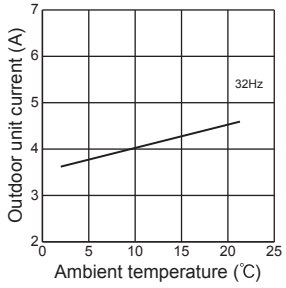
2. 18-class unit in single operation



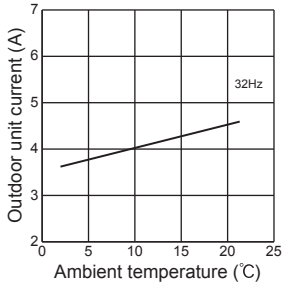
3. 20-class unit in single operation



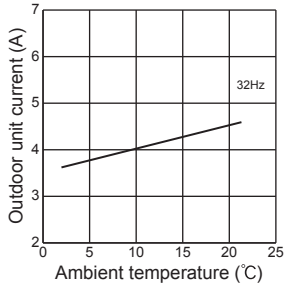
4. 22-class unit in single operation



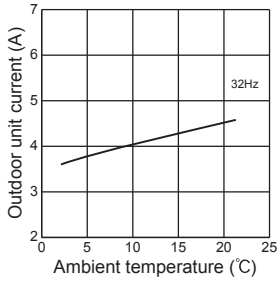
5. 25-class unit in single operation



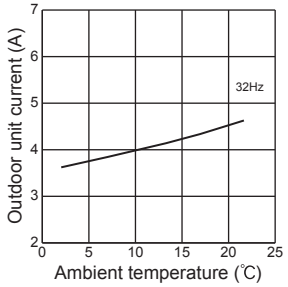
6. 35-class unit in single operation



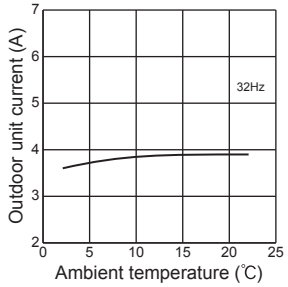
7. 42-class unit in single operation



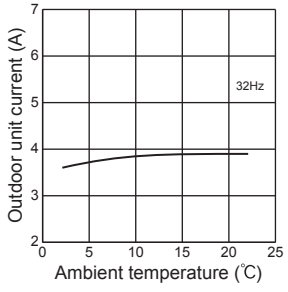
8. 50-class unit in single operation



9. 60-class unit in single operation

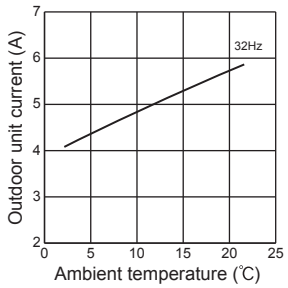


10. 71-class unit in single operation

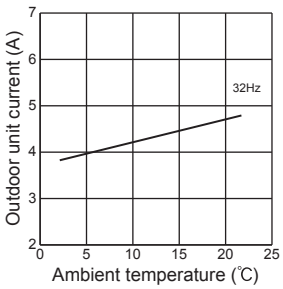


MXZ-5E102VA

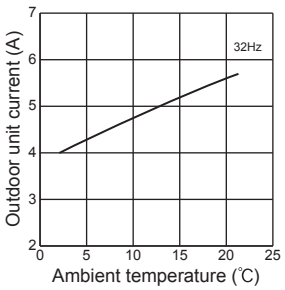
1. 15-class unit in single operation



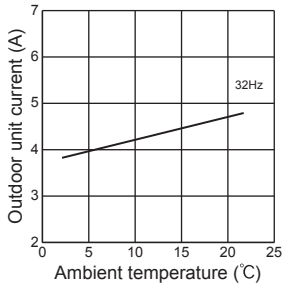
2. 18-class unit in single operation



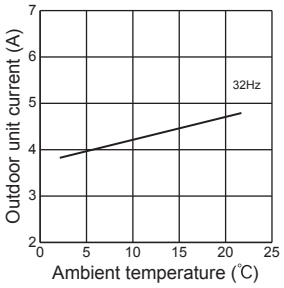
3. 20-class unit in single operation



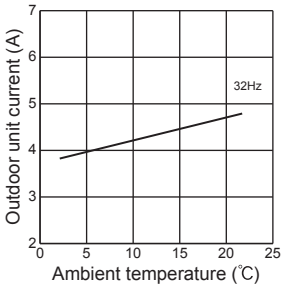
4. 22-class unit in single operation



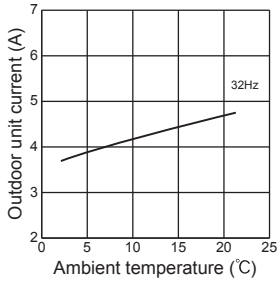
5. 25-class unit in single operation



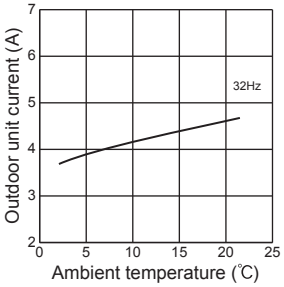
6. 35-class unit in single operation



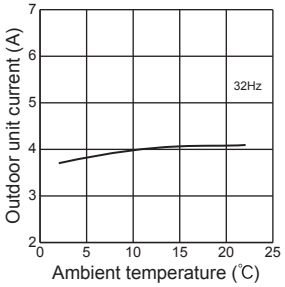
7. 42-class unit in single operation



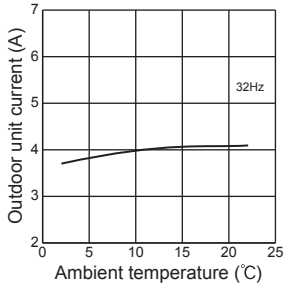
8. 50-class unit in single operation



9. 60-class unit in single operation

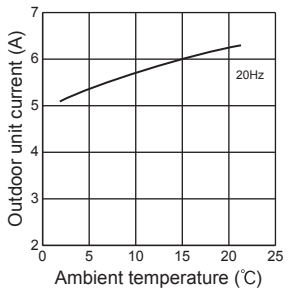


10. 71-class unit in single operation

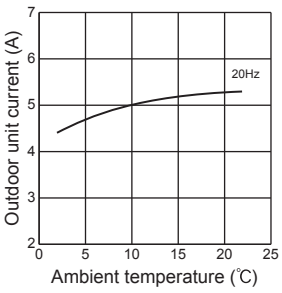


MXZ-6D122VA

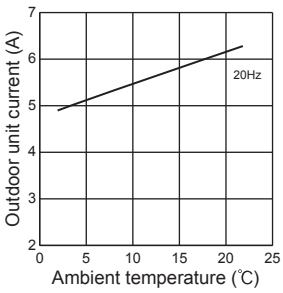
1. 15-class unit in single operation



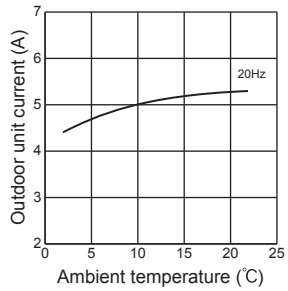
2. 20-class unit in single operation



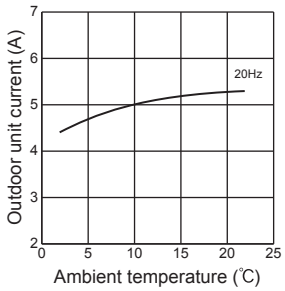
3. 18-class unit in single operation



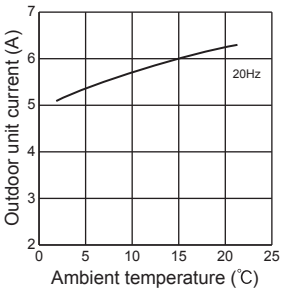
4. 22-class unit in single operation



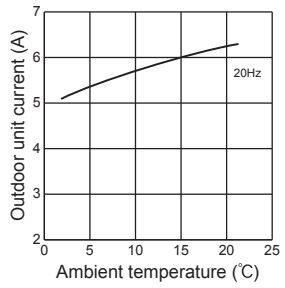
5. 25-class unit in single operation



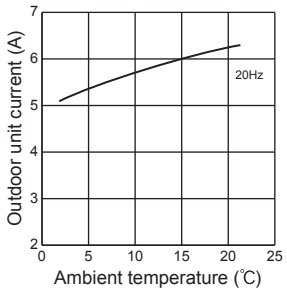
6. 35-class unit in single operation



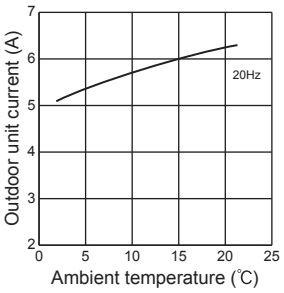
7. 42-class unit in single operation



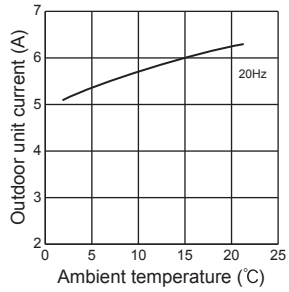
8. 50-class unit in single operation



9. 60-class unit in single operation

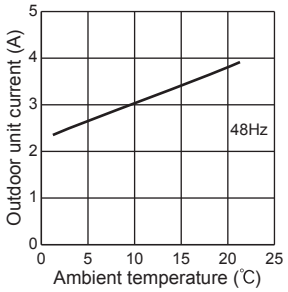


10. 71-class unit in single operation

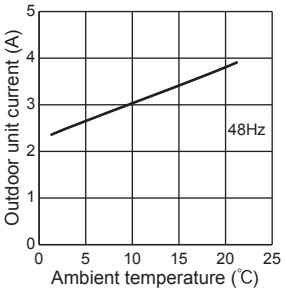


MXZ-2DM40VA

1. 25-class unit in single operation

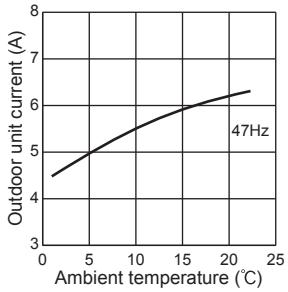


2. 35-class unit in single operation

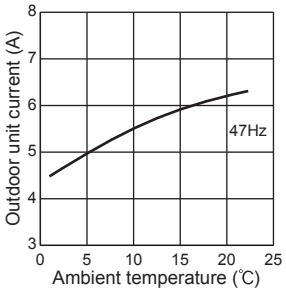


MXZ-3DM50VA

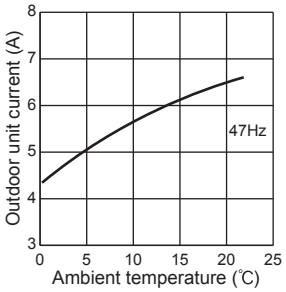
1. 25-class unit in single operation



2. 35-class unit in single operation

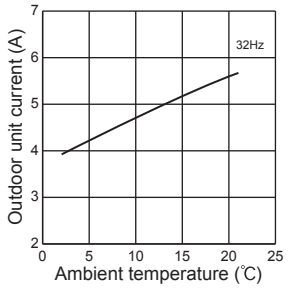


3. 50-class unit in single operation

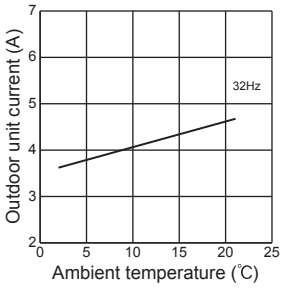


MXZ-2E53VAHZ

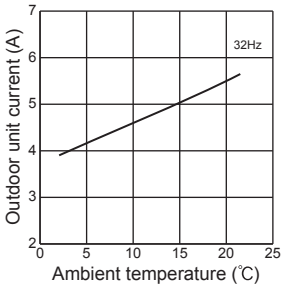
1. 15-class unit in single operation



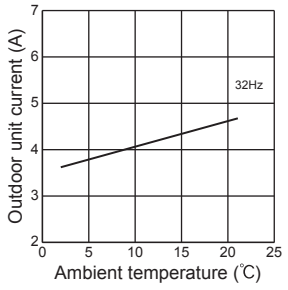
2. 18-class unit in single operation



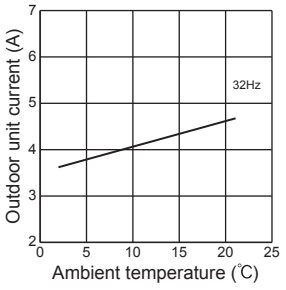
3. 20-class unit in single operation



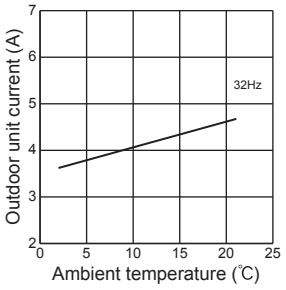
4. 22-class unit in single operation



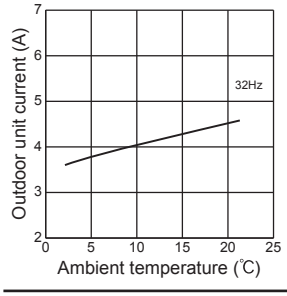
5. 25-class unit in single operation



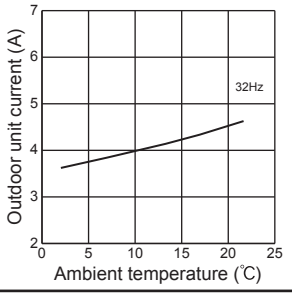
6. 35-class unit in single operation



7. 42-class unit in single operation

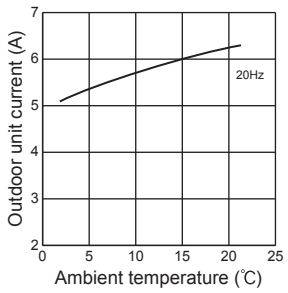


8. 50-class unit in single operation

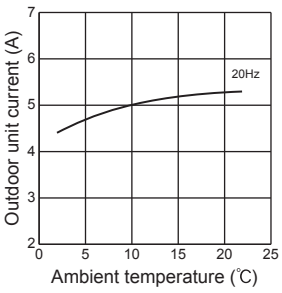


MXZ-4E83VAHZ

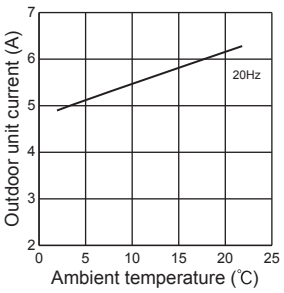
1. 15-class unit in single operation



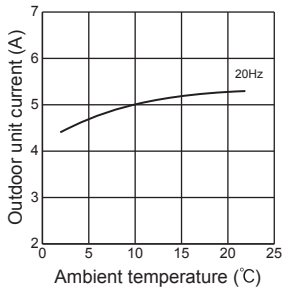
2. 18-class unit in single operation



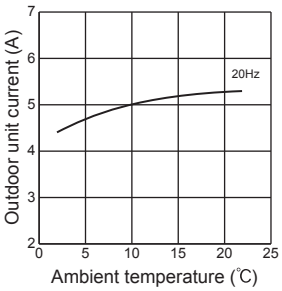
3. 20-class unit in single operation



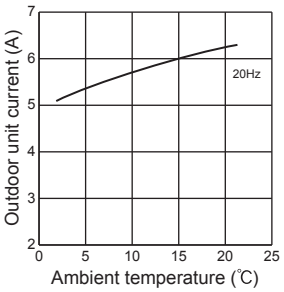
4. 22-class unit in single operation



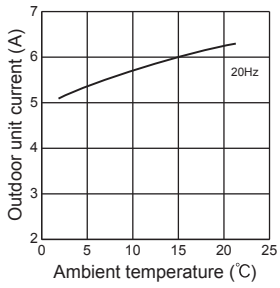
5. 25-class unit in single operation



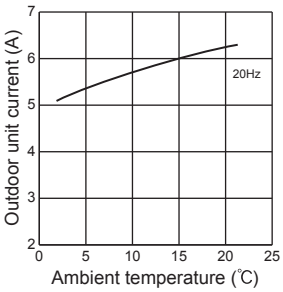
6. 35-class unit in single operation



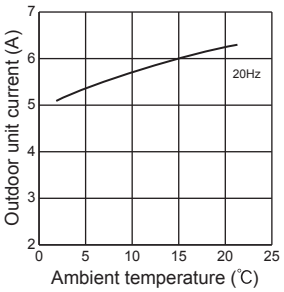
7. 42-class unit in single operation



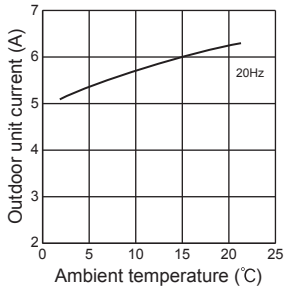
8. 50-class unit in single operation



9. 60-class unit in single operation



10. 71-class unit in single operation

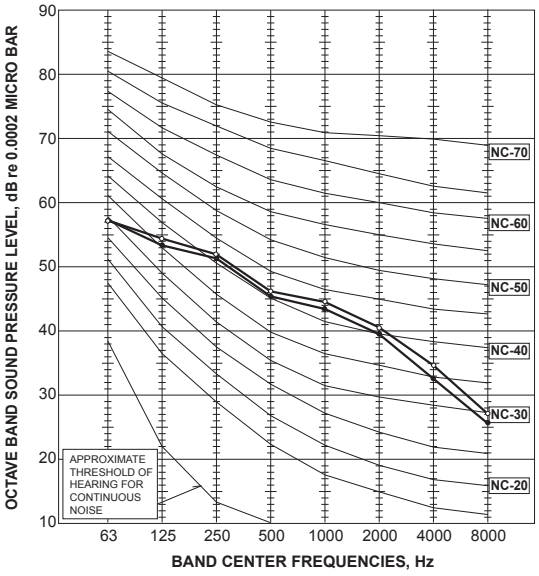


C.4.6 NOISE CRITERIA CURVES

C.4.6.1 Inverter Heat Pump

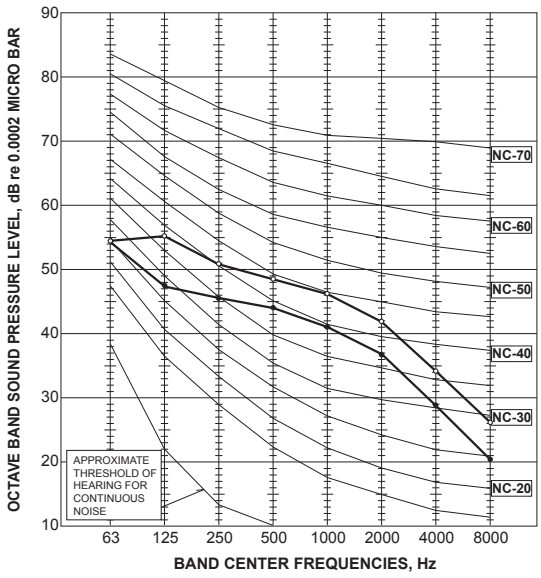
MXZ-2D33VA

FAN SPEED	FUNCTION	SPL($dB_{(A)}$)	LINE
High	Cooling	49	●—●
High	Heating	50	○—○



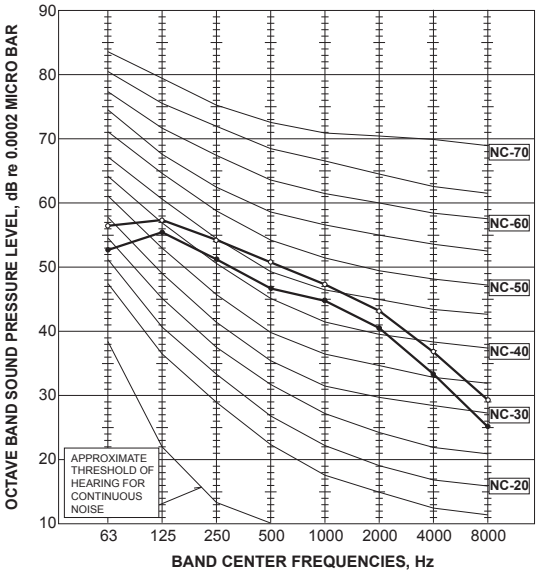
MXZ-2D42VA2

FAN SPEED	FUNCTION	SPL($dB_{(A)}$)	LINE
High	Cooling	46	●—●
High	Heating	51	○—○



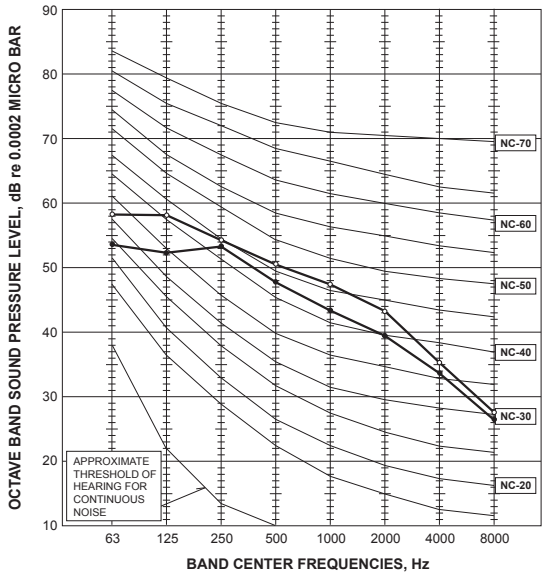
MXZ-2D53VA2
MXZ-2D53VAH2

FAN SPEED	FUNCTION	SPL($dB_{(A)}$)	LINE
High	Cooling	50	●—●
High	Heating	53	○—○



MXZ-3E54VA

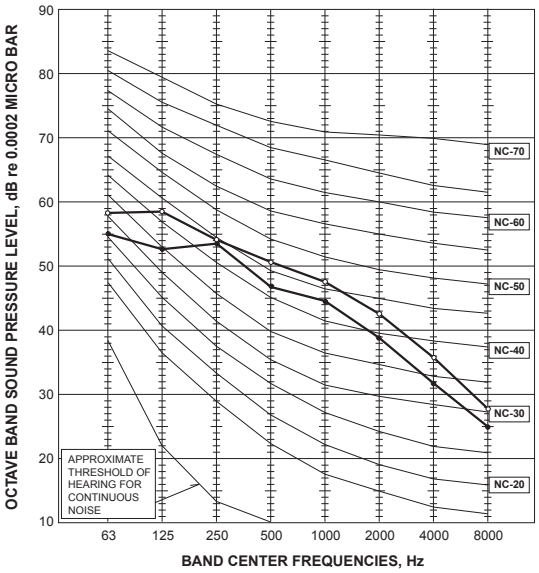
FAN SPEED	FUNCTION	SPL($dB_{(A)}$)	LINE
High	Cooling	50	●—●
High	Heating	53	○—○



<Notes>
1) Sound data is taken when the system is running stably.
2) Relatively large noise could be heard transiently in the case 4-way valve, or LEV operates.

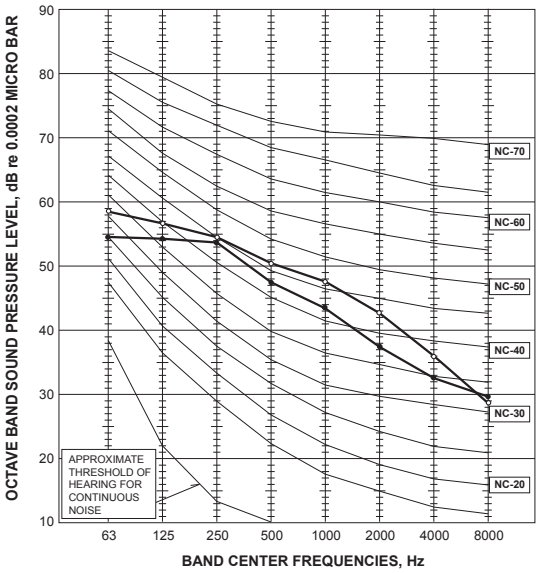
MXZ-3E68VA

FAN SPEED	FUNCTION	SPL(dB(A))	LINE
High	Cooling	50	●—●
High	Heating	53	○—○



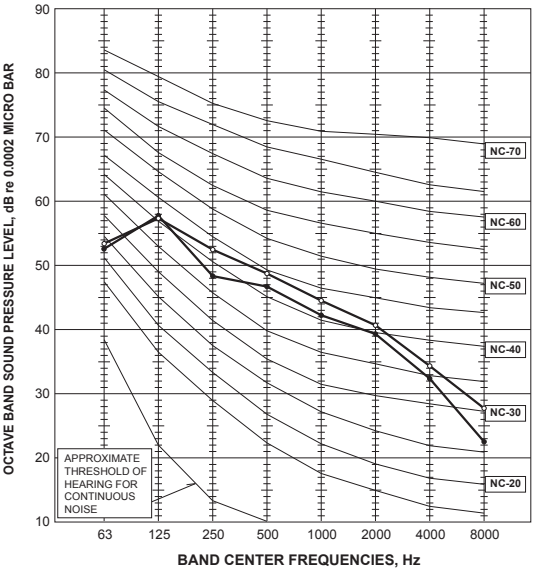
MXZ-4E72VA

FAN SPEED	FUNCTION	SPL(dB(A))	LINE
High	Cooling	50	●—●
High	Heating	53	○—○



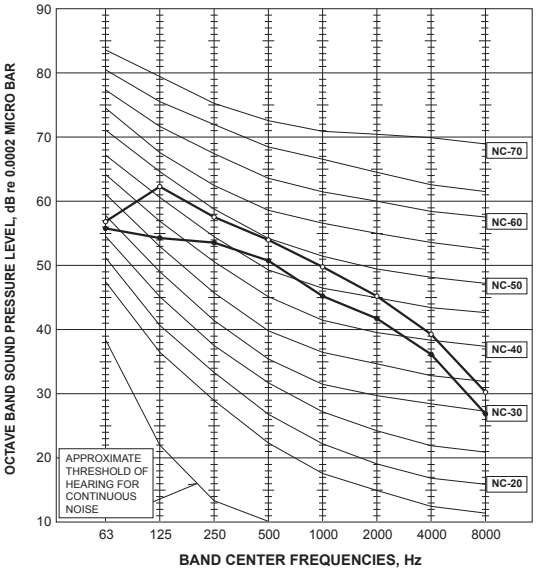
MXZ-4E83VA

FAN SPEED	FUNCTION	SPL(dB(A))	LINE
High	Cooling	49	●—●
High	Heating	51	○—○



MXZ-5E102VA

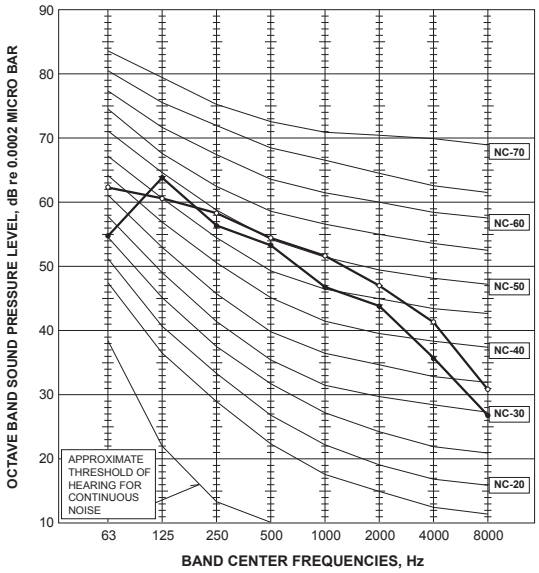
FAN SPEED	FUNCTION	SPL(dB(A))	LINE
High	Cooling	52	●—●
High	Heating	56	○—○



<Notes>
1) Sound data is taken when the system is running stably.
2) Relatively large noise could be heard transiently in the case 4-way valve, or LEV operates.

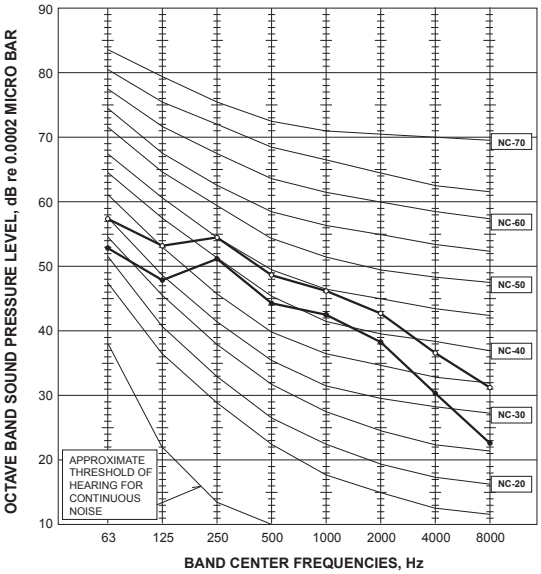
MXZ-6D122VA

FAN SPEED	FUNCTION	SPL($dB_{(A)}$)	LINE
High	Cooling	55	●—●
High	Heating	57	○—○



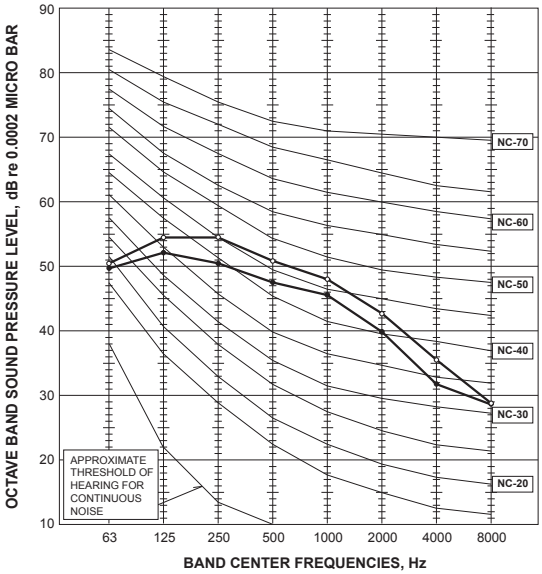
MXZ-2DM40VA

FAN SPEED	FUNCTION	SPL($dB_{(A)}$)	LINE
High	Cooling	48	●—●
High	Heating	52	○—○



MXZ-3DM50VA

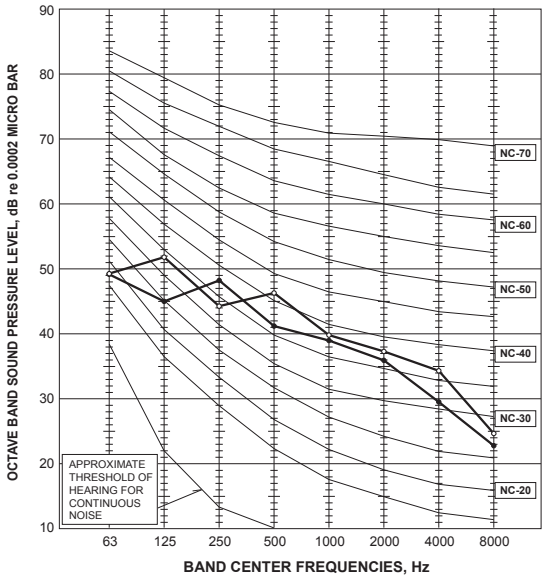
FAN SPEED	FUNCTION	SPL($dB_{(A)}$)	LINE
High	Cooling	50	●—●
High	Heating	53	○—○



<Notes>
1) Sound data is taken when the system is running stably.
2) Relatively large noise could be heard transiently in the case 4-way valve, or LEV operates.

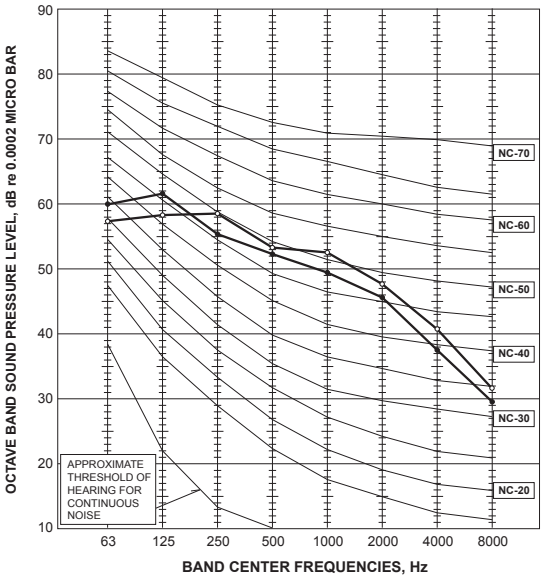
MXZ-2E53VAHZ

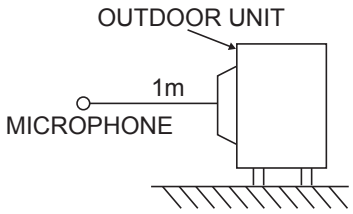
FAN SPEED	FUNCTION	SPL(dB(A))	LINE
High	Cooling	45	●—●
High	Heating	47	○—○



MXZ-4E83VAHZ

FAN SPEED	FUNCTION	SPL(dB(A))	LINE
High	Cooling	53	●—●
High	Heating	57	○—○





Test conditions

Cooling :Dry-bulb temperature 35°C Wet-bulb temperature 24°C
Heating :Dry-bulb temperature 7°C Wet-bulb temperature 6°C

<Notes>
1) Sound data is taken when the system is running stably.
2) Relatively large noise could be heard transiently in the case 4-way valve, or LEV operates.

C.4.7 ACTUATOR CONTROL

C.4.7.1 MXZ Series

MXZ-2D33VA MXZ-2D42VA2 MXZ-2D53VA2 MXZ-2D53VAH2 MXZ-6D122VA MXZ-2DM40VA MXZ-3DM50VA

Relation between main sensor and actuator

Sensor	Purpose	Actuator				
		Compressor	LEV	Outdoor fan motor	4-way valve	Defrost heater ※1
Discharge temperature thermistor	Protection	○	○			
Indoor coil temperature thermistor	Cooling: Coil frost prevention	○				
	Heating: High pressure protection	○	○			
Defrost thermistor	Heating: Defrosting	○	○	○	○	
Fin temperature thermistor	Protection	○		○		
Ambient temperature thermistor	Control/Protection	○	○	○		
	Heating: Defrosting (Heater)					○
Outdoor heat exchanger temperature thermistor	Cooling: Control/Protection	○	○	○		
Capacity code	Control	○	○			

※1 **MXZ-2D53VAH2**

MXZ-3E54VA MXZ-3E68VA MXZ-4E72VA MXZ-4E83VA MXZ-5E102VA MXZ-2E53VAHZ MXZ-4E83VAHZ

Relation between main sensor and actuator

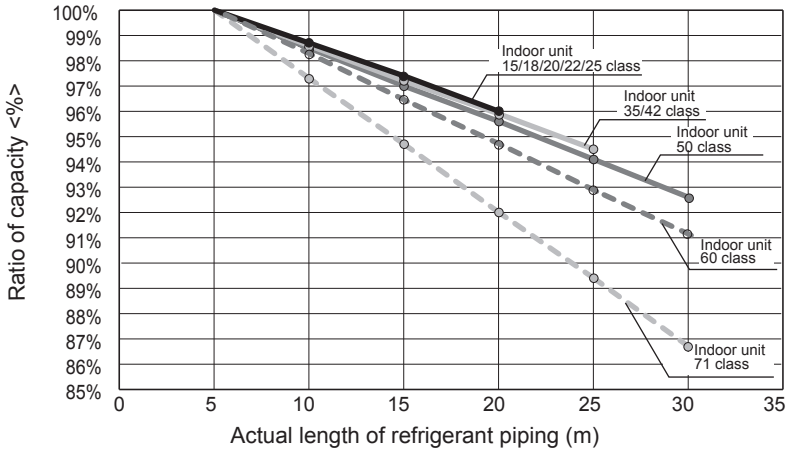
Sensor	Purpose	Actuator					
		Compres-sor	LEV	Outdoor fan motor	4-way valve	2-way solenoid valve ※1	Defrost heater ※2
Discharge temperature thermistor	Protection	○	○			○	
Indoor coil temperature thermistor	Cooling: Coil frost prevention	○				○	
	Heating: High pressure protection	○	○				
Defrost thermistor	Heating: Defrosting	○	○	○	○		
Fin temperature thermistor	Protection	○		○			
Ambient temperature thermistor	Control/Protection	○	○	○		○	
	Heating: Defrosting (Heater)						○
Outdoor heat exchanger temperature thermistor	Cooling: Control/Protection	○	○	○		○	
Capacity code	Control	○	○				

※1 **MXZ-4E83VAHZ**
※2 **MXZ-2E53VAHZ, MXZ-4E83VAHZ**

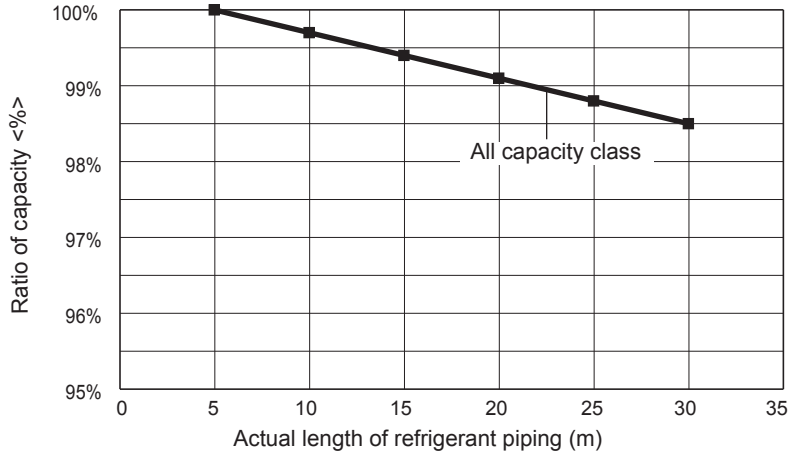
C.4.8 CAPACITY CORRECTION RATIO CURVE FOR PIPING LENGTH

C.4.8.1 MXZ-2D/6D, MXZ-2E/3E/4E/5E, MXZ-2DM, 3DM

Correction ratio of capacity according to the length of piping (cooling)



Correction ratio of capacity according to the length of piping (heating)



The length intended for the capacity calculation, which counts the length of refrigerant piping and the number of bends, is called actual length.

Length of refrigerant piping (m) + (Number of bends × 0.3 m) = Actual length of refrigerant piping (m)