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2011

T1, 50Hz, R410A&R134a

2011 COMMERCIAL AIR CONDITIONERS

T1, 50HZ, R410A & R134a



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GC1101-02



COMMERCIAL AIR CONDITIONERS

T1, 50Hz, R410A & R134a

COMMERCIAL AIR CONDITIONERS



2011

COMPANY PROFILE



GREE, MAKING BETTER AIR CONDITIONERS

GREE Electric Appliances, Inc. of Zhuhai, founded in 1991, is the world's largest specialized air conditioner manufacturer, integrating R&D, manufacturing, marketing and services. Currently, we have 8 production bases in Zhuhai, Chongqing, Hefei, Zhengzhou and Wuhan (China), as well as Brazil, Pakistan and Vietnam with more than 40,000 employees.

In past 20 years, we have made dramatic progress in both domestic and international markets. We have been one of the "Top 100 Chinese Listed Companies" ranked by Fortune for 8 consecutive years.

In China, GREE is the top selling air-conditioner brand; our sales volume has been No.1 for 14 consecutive years since 1995. We are the only air-conditioner brand ranked as a "World Brand" by the General Administration of Quality Supervision, Inspection and Quarantine.

In the global market, our sales volume of residential air conditioners has been No.1 since 2005. We have an extensive sales network that covers 100 countries and regions globally. More than 100 million customers are using our air conditioners.

As a specialized air conditioner manufacturer, we have been constantly striving to deliver quality products and advanced technology. We own more than 3,000 patents and have developed 20 product categories, with 400 series, and 7,000 models for both residential and commercial users in order to meet the diverse needs of our customers.

Innovation and creativity has always been the priority. We are the pioneer in developing and producing the

GMV VRF system, centrifugal water chiller and sine wave DC inverter air conditioner, which gives us favorable reputation and significant influence in the air-conditioner industry.

By continuously cultivating strong internal R&D capabilities, we have become a role model for other Chinese enterprises, successfully developing new products which are not only 'Made-in-China', but innovatively 'Created-in-China'.

In the future, we will dedicate ourselves to the "Created-in-China" concept and focus on development of internal R&D capabilities, aiming at establishing GREE as a leading air conditioner manufacturer with a strong brand name.



Production base in Chongqing



Production base in Hefei



Production base in Brazil



Production base in Vietnam



Production base in Pakistan

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CONTROL SYSTEM





U-Match Series DC Inverter

R410A
9~60kBTu/h



U-Match Series Fixed Frequency

R410A
9~60kBTu/h



U-Match Indoor Units



Duct Type

R410A
20~40kW

VRF



GMV-R Series Digital Scroll

R410A
26~90kW



GMV-Rm Series Modular Digital Scroll

R410A
22.4~50.4kW



GMV-Pd Series DC Inverter

R410A
10~16kW



GMV-Pdm Series Modular DC Inverter

R410A
22.4~45kW



GMV-Pdhm Series Modular DC Inverter With Heat Recovery

R410A
22.4~45kW



GMV Indoor Units



Outdoor Air Processing Unit DC Inverter

R410A
14~56kW



Free Match

R410A
14~42kBTu/h



HEAT PUMP WATER HEATER



GMV-Pds Series HOME-GMV



Versati Series Air to Water Heat Pump

R410A
6~16kW



Heat Pump

R410A
9/16kW



Circulating Heat Pump

R410A
3.8/5.0kW

CHILLER



Mini-chiller

R410A
8~45kW



Air-cooled Scroll Chiller(C Series)

R410A
62.5~143kW



Water-cooled Screw Chiller

R134a
180~1275kW



Centrifugal Chiller

R134a
1400~7200kW



Modular Air-cooled Screw Chiller

R134a
230~430kW

TERMINAL



Fan Coil Unit

80~2000CFM, 206~1059CFM, 166~500CFM, 125~1200CFM



Package AHU

881~4696CFM, 1761~17610CFM



Hydronic Air Handling Unit (Gzk Series)

533CFM~2024CFM



Air Curtain

705CFM~970CFM



Diffuser



Energy-recovery Ventilation System

210CFM~1760CFM

SPECIAL AIR CONDITIONERS



Marine Air Conditioner

R410A
5~16kbtu/h



GREE CENTRAL AIR CONDITIONER
making better air conditioners





UNITARY

1. U-MATCH
2. DUCT TYPE

Unitary Air Conditioner

U-Match Series DC Inverter R410A

A-A Class Energy Efficiency Outdoor Unit — Generation III



9/12k Btu/h



18k Btu/h



24/30k Btu/h



36/42k Btu/h



48/60k Btu/h



- ◇ Excellent performance thanks to DC inverter technology.
- ◇ Universal outdoor unit can match with different types of indoor units.
- ◇ Free combination to meet different preference and match interior decoration.
- ◇ Optimized components for R410a refrigerant
- ◇ Weekly timer(optional)



Easy installation



Compact design



Quiet design



Long life and washable filter



Weekly timer (optional)



Nominal Operating Condition

Item	Outdoor Condition		Indoor Condition	
	DB Temperature(°C)	WB Temperature(°C)	DB Temperature(°C)	WB Temperature(°C)
Cooling	35	24	27	19
Heating	7	6	20	15

Operation Range	Outdoor Condition(DB°C)			
	Item			
	Cooling	with low ambient cooling (°C)	-15~48	
		without low ambient cooling (°C)	18~48	
Heating	(°C)		-7~24	

Duct Type



9k Btu/h~18k Btu/h



24k Btu/h~48k Btu/h



60k Btu/h

Wireless
Controller
(standard)Wired
Controller
(standard)

Combining comfort of central air conditioners and easy and flexible installation of split air conditioner, duct type split unit features high efficiency, long-distance and high quality air supply, reliable operation, easy operation, overall functions, etc. It can be widely used in small-sized supermarket, shop, house, hotel, restaurant, office, meeting room, and villa etc.



- ◇ Simple wire connection design.
- ◇ Compact design, with 220mm minimum height.
- ◇ Low noise.
- ◇ Reserved interface for 11 steps adjustable fresh air control.
- ◇ Long lifespan and washable filter.
- ◇ Wired remote control fitted as standard.
- ◇ Wireless remote control((standard)
- ◇ Drain pump with 1100mm lift head(for 24-60k Btu/hunit).

Model	Indoor unit		GFH09K3CI	GFH12K3CI	GFH18K3CI	GFH24K3CI	
	Outdoor unit		GUHD09NK3CO	GUHD12NK3CO	GUHD18NK3CO	GUHD24NK3CO	
Characteristics of units	Capacity	Cooling	W	2700	3500	5300	7000
			Btu/h	9212	12000	18000	24000
		Heating	W	2900	3800	6150	7500
			Btu/h	9895	13000	21000	25500
	Power supply	V-Ph-Hz		220-240V-1Ph-50Hz	220-240V-1Ph-50Hz	220-240V-1Ph-50Hz	220-240V-1Ph-50Hz
	Power input	Cooling	W	830	1077	1650	2190
		Heating	W	803	974	1700	2080
	Current input	Cooling	A	3.68	4.80	7.58	9.62
		Heating	A	3.56	4.32	7.81	9.13
	EER	W/W	3.25	3.25	3.21	3.20	
C.O.P	W/W	3.61	3.90	3.61	3.60		
Refrigerant charged volume	kg	1.20	1.35	1.40	2.40		
Indoor unit	Airflow volume	m ³ /h	800	840	1000	1600	
		CFM	470	494	586	942	
	Esp default	Pa	25	25	25	25	
	Esp range	Pa	0~25	0~25	0~25	0~100	
	Sound pressure level	dB(A)	40/38/36	37/35/33	45/42/39	47/44/42	
	Outline dimension	W×D×H	mm	880×665×250	980×721×266	980×721×266	1270×530×268
Outdoor unit	Package dimension	W×D×H	mm	1020×745×320	1120×795×323	1120×795×323	1345×594×283
	Net weight/Gross weight	kg	26/32	34/41	34/41	37/43	
	Sound pressure level	dB(A)	53	54	57	59	
Connection pipe	Diameter	Liquid pipe	inch	1/4	1/4	1/4	3/8
		Gas pipe	inch	3/8	3/8	1/2	5/8
	Max.piping length	m	20	20	20	30	
Max.level difference of in&outdoor units	m	15	15	15	15		
Loading quantity	40'GP/40'HQ		128/136	128/136	93/95	76/89	



Model		Indoor unit		GFH30K3CI	GFH36K3CI	GFH42K3CI	GFH48K3CI
		Outdoor unit		GUHD30NK3CO	GUHD36NK3CO	GUHD42NK3CO	GUHD48NK3CO
Characteristics of units	Capacity	Cooling	W	8200	10300	1100	14000
			Btu/h	28000	35140	37930	48000
		Heating	W	8800	11500	13200	16500
			Btu/h	30000	39238	45038	56000
	Power supply	V-Ph-Hz		220-240V-1Ph-50Hz	220-240V-1Ph-50Hz	220-240V-1Ph-50Hz	220-240V-1Ph-50Hz
	Power input	Cooling	W	2560	3208	3427	4350
		Heating	W	2440	3066	3400	4500
	Current input	Cooling	A	11.24	14.60	15.20	20.00
		Heating	A	10.72	14.60	15.08	21.00
	EER		W/W	3.20	3.21	3.21	3.21
C.O.P		W/W	3.61	3.75	3.88	3.67	
Refrigerant charged volume		kg	2.60	3.50	3.80	4.30	
Indoor unit	Airflow volume		m ³ /h	1500	2300	2300	2500
			CFM	942	1353	1353	1470
	Esp default		Pa	37	37	50	50
	Esp range		Pa	0~100	0~150	0~150	0~150
	Sound pressure level		dB(A)	47/44/42	53/50/46	53/50/46	53/50/46
	Outline dimension	W×D×H	mm	1270×530×268	1226×775×290	1226×775×290	1226×815×330
	Package dimension	W×D×H	mm	1345×594×283	1335×834×305	1335×834×305	1335×882×345
	Net weight/Gross weight		kg	36/41	57/67	57/67	64/73
	Sound pressure level		dB(A)	59	61	61	61
	Outdoor unit	Outline dimension	W×D×H	mm	980×427×790	1107×440×1100	1107×440×1100
Package dimension		W×D×H	mm	1080×485×840	1155×490×1220	1155×490×1220	1140×475×1490
Net weight/Gross weight		kg	68/74	86/97	90/101	122/128	
Sound pressure level		dB(A)	59	61	61	61	
Connection pipe	Diameter	Liquid pipe	inch	3/8	3/8	3/8	3/8
		Gas pipe	inch	5/8	5/8	5/8	5/8
	Max.piping length		m	30	30	50	50
	Max.level difference of in&outdoor units		m	15	15	30	30
Loading quantity	40'GP/40'HQ			76/89	40/55	40/55	35/40



Model		Indoor unit		GFH36K3CI	GFH42K3CI	GFH48K3CI	GFH60K3CI
		Outdoor unit		GUHD36NM3CO	GUHD42NM3CO	GUHD48NM3CO	GUHD60NM3CO
Characteristics of units	Capacity	Cooling	W	10300	11000	14000	17000
			Btu/h	35140	37530	48000	58000
		Heating	W	11500	13200	16500	18000
			Btu/h	39238	45038	56000	61400
	Power supply	V-Ph-Hz		380-415V-3Ph-50Hz	380-415V-3Ph-50Hz	380-415V-3Ph-50Hz	380-415V-3Ph-50Hz
	Power input	Cooling	W	3170	3400	4350	5300
		Heating	W	3100	3400	4500	5000
	Current input	Cooling	A	4.80	5.50	6.43	13.38
		Heating	A	4.72	5.50	6.70	12.63
	EER		W/W	3.25	3.24	3.21	3.20
C.O.P		W/W	3.71	3.88	3.67	3.60	
Refrigerant charged volume		kg	3.50	3.80	4.30	5.50	
Indoor unit	Airflow volume		m ³ /h	2300	2300	2500	3150
			CFM	1353	1353	1470	1854
	Esp default		Pa	37	50	50	50
	Esp range		Pa	0~150	0~150	0~150	0~150
	Sound pressure level		dB(A)	53/50/46	53/50/46	53/50/46	54/51/48
	Outline dimension	W×D×H	mm	1226×775×290	1226×775×290	1226×815×330	1463×799×385
	Package dimension	W×D×H	mm	1335×834×305	1335×834×305	1335×882×345	1540×880×400
	Net weight/Gross weight		kg	57/67	57/67	64/73	87/98
	Sound pressure level		dB(A)	61	61	61	63
	Outdoor unit	Outline dimension	W×D×H	mm	1107×440×1100	1107×440×1100	1085×427×1365
Package dimension		W×D×H	mm	1155×490×1220	1155×490×1220	1140×475×1490	1140×475×1490
Net weight/Gross weight		kg	95/100	98/103	122/128	127/133	
Sound pressure level		dB(A)	61	61	61	63	
Connection pipe	Diameter	Liquid pipe	inch	3/8	3/8	3/8	3/8
		Gas pipe	inch	5/8	5/8	5/8	3/4
	Max.piping length		m	30	50	50	50
	Max.level difference of in&outdoor units		m	15	30	30	30
Loading quantity	40'GP/40'HQ			40/55	40/55	35/40	34/36

Four-way Cassette Type



12k Btu/h~18k Btu/h



24k Btu/h~48k Btu/h

Wireless
Controller
(standard)Wired
Controller
(standard)

- Its 4-way air supply design makes the environment more comfortable. With the features of compact structure, slim body, good-looking appearance, easy installation and overall control functions, this unit is widely used in the hotel, hall, meeting room, restaurant, shop, office and so on.



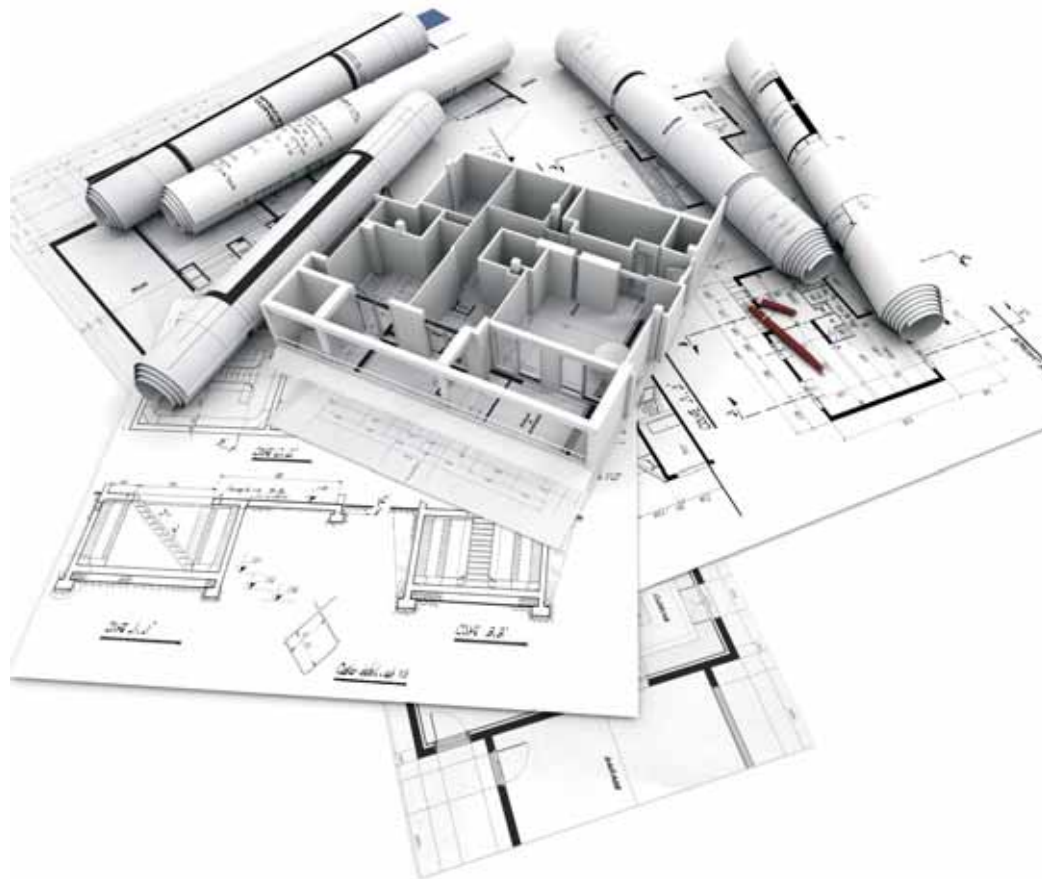
- ◇ The unit is compact, thin and light in weight.
- ◇ Low noise.
- ◇ Wired remote control fitted as standart.
- ◇ Wireless remote control ((standard).
- ◇ Long lifespan and washable filter.
- ◇ Water pump fitted as standard.



Model	Indoor unit		GKH12K3CI	GKH18K3CI	GKH24K3CI	GKH30K3CI	
	Outdoor unit		GUHD12NK3CO	GUHD18NK3CO	GUHD24NK3CO	GUHD30NK3CO	
Characteristics of units	Capacity	Cooling	W	3400	5300	7000	8800
			Btu/h	11600	18000	24000	30000
		Heating	W	3700	6150	8650	9500
			Btu/h	12600	21000	29500	32400
	Power supply	V-Ph-Hz		220-240V-1Ph-50Hz	220-240V-1Ph-50Hz	220-240V-1Ph-50Hz	220-240V-1Ph-50Hz
	Power input	Cooling	W	1030	1650	2190	2750
		Heating	W	1025	1700	2400	2640
	Current input	Cooling	A	4.57	7.58	9.62	12.08
		Heating	A	4.55	7.81	9.97	11.59
	EER	W/W	3.30	3.21	3.20	3.20	
C.O.P	W/W	3.61	3.61	3.61	3.60		
Refrigerant charged volume	kg	1.35	1.40	2.40	2.60		
Indoor unit (main body)	Airflow volume	m ³ /h	550	1180	1400	1660	
		CFM	365	695	824	977	
	Sound pressure level	dB(A)	47/45/43	47/45/43	51/49/48	53/51/48	
	Outline dimension	W×D×H	mm	600×600×230	840×840×240	840×840×240	840×840×320
Package dimension	W×D×H	mm	848×678×310	960×960×310	960×960×310	960×960×394	
Net weight/Gross weight	kg	20/27	27/36	27/36	32/43		
panel	Outline dimension	W×D×H	mm	650×650×50	950×950×60	950×950×60	950×950×60
	Package dimension	W×D×H	mm	670×730×102	1025×1040×115	1025×1040×115	1025×1040×115
	Net weight/Gross weight	kg	2.3/3.5	6.5/10.0	6.5/10.0	6.5/10.0	
Outdoor unit	Sound pressure level	dB(A)	54	57	59	59	
	Outline dimension	W×D×H	mm	776×320×540	955×396×700	980×427×790	980×427×790
	Package dimension	W×D×H	mm	848×360×580	1026×455×735	1080×485×840	1080×485×840
	Net weight/Gross weight	kg	30/34	48/53	65/70	68/74	
Connection pipe	Diameter	Liquid pipe	inch	1/4	1/4	3/8	3/8
		Gas pipe	inch	1/2	3/8	5/8	5/8
	Max.piping length	m	20	20	30	30	
	Max.level difference of in&outdoor units	m	15	15	15	15	
Loading quantity	40'GP/40'HQ		123/157	72/77	64/71	49/69	



Model		Indoor unit		GKH36K3CI ^{NEW}	GKH42K3CI ^{NEW}	GKH36K3CI ^{NEW}	GKH42K3CI ^{NEW}
		Outdoor unit		GUHD36NK3CO	GUHD42NK3CO	GUHD36NM3CO	GUHD42NM3CO
Characteristics of units	Capacity	Cooling	W	10300	11000	10300	11000
			Btu/h	35140	37530	35140	37530
		Heating	W	11200	12400	11200	12400
			Btu/h	38210	42300	38210	42300
	Power supply	V-Ph-Hz		220-240V-1Ph-50Hz	220-240V-1Ph-50Hz	380-415V-3Ph-50Hz	380-415V-3Ph-50Hz
	Power input	Cooling	W	3200	3427	3180	3300
		Heating	W	3000	3434	3100	3300
	Current input	Cooling	A	14.65	15.20	4.80	5.40
		Heating	A	13.73	15.23	4.72	5.40
	EER	W/W		3.22	3.21	3.24	3.33
C.O.P	W/W		3.73	3.61	3.61	3.75	
Refrigerant charged volume	kg		3.50	3.80	3.50	3.80	
Indoor unit (main body)	Airflow volume		m ³ /h	1660	1660	1660	1660
			CFM	977	977	977	977
	Sound pressure level		dB(A)	53/51/48	53/51/48	53/51/48	53/51/48
	Outline dimension	W×D×H	mm	840×840×320	840×840×320	840×840×320	840×840×320
	Package dimension	W×D×H	mm	960×960×394	960×960×394	960×960×394	960×960×394
Net weight/Gross weight		kg	32/43	32/43	32/43	32/43	
panel	Outline dimension	W×D×H	mm	950×950×60	950×950×60	950×950×60	950×950×60
	Package dimension	W×D×H	mm	1025×1040×115	1025×1040×115	1025×1040×115	1025×1040×115
	Net weight/Gross weight		kg	6.5/10.0	6.5/10.0	6.5/10.0	6.5/10.0
Sound pressure level		dB(A)	61	61	61	61	
Outdoor unit	Outline dimension	W×D×H	mm	1107×440×1100	1107×440×1100	1107×440×1100	1107×440×1100
	Package dimension	W×D×H	mm	1155×490×1220	1155×490×1220	1155×490×1220	1155×490×1220
	Net weight/Gross weight		kg	86/97	90/101	95/100	98/103
Connection pipe	Diameter	Liquid pipe	inch	3/8	3/8	3/8	3/8
		Gas pipe	inch	5/8	5/8	5/8	5/8
	Max.piping length		m	30	50	30	50
Max.level difference of in&outdoor units		m	15	30	15	30	
Loading quantity	40'GP/40'HQ			40/48	40/48	40/48	40/48



Floor Ceiling Type



9/24k Btu/h



30/42k Btu/h



48/60k Btu/h



Wireless Controller (standard)



Wired Controller (standard)

It can be installed on the floor or under the ceiling. With the features of easy and flexible installation, wide range and long distance air supply, good performance, various control functions and slim body, it is especially applicable to the hotel, office, meeting room with low space room.



- ◇ Slim design.
- ◇ Low noise.
- ◇ Plastic case.
- ◇ Wired remote control fitted as standart.
- ◇ Wireless remote control (standard).
- ◇ Long lifespan and washable filter.
- ◇ Stand and ceiling convertible.

Model		Indoor unit		GTH09K3CI <small>NEW</small>	GTH12K3CI <small>NEW</small>	GTH18K3CI <small>NEW</small>	GTH24K3CI <small>NEW</small>
		Outdoor unit		GUHD09NK3CO	GUHD12NK3CO	GUHD18NK3CO	GUHD24NK3CO
Characteristics of units	Capacity	Cooling	W	3000	3400	5300	7000
			Btu/h	10236	11600	18000	24000
		Heating	W	3000	3800	6150	8000
			Btu/h	10236	13000	21000	27000
	Power supply	V-Ph-Hz		220-240V-1Ph-50Hz	220-240V-1Ph-50Hz	220-240V-1Ph-50Hz	220-240V-1Ph-50Hz
	Power input	Cooling	W	857	1059	1650	2190
			W	750	927	1700	2220
	Current input	Cooling	A	3.80	4.70	7.58	9.62
			A	3.33	4.11	7.81	9.75
	EER		W/W	3.50	3.21	3.21	3.20
C.O.P		W/W	4.00	4.10	3.61	3.60	
Refrigerant charged volume		kg	1.20	1.35	1.40	2.40	
Indoor unit	Airflow volume		m ³ /h	650	700	900	1200
			CFM	380	410	530	706
	Sound pressure level		dB(A)	39/37/35	39/37/35	45/42/39	52/49/46
	Outline dimension	W×D×H	mm	1220×700×225	1220×700×225	1220×700×225	1220×700×225
Package dimension	W×D×H	mm	1345×825×310	1345×825×310	1345×825×310	1345×825×310	
Net weight/Gross weight		kg	40/49	40/49	42/51	43/52	
Outdoor unit	Sound pressure level		dB(A)	53	54	57	59
	Outline dimension	W×D×H	mm	776×320×540	776×320×540	955×396×700	980×427×790
	Package dimension	W×D×H	mm	848×360×580	848×360×580	1026×455×735	1080×485×840
	Net weight/Gross weight		kg	28/32	30/34	48/53	65/70
Connection pipe	Diameter	Liquid pipe	inch	1/4	1/4	1/4	3/8
		Gas pipe	inch	3/8	3/8	1/2	5/8
	Max.piping length		m	20	20	20	30
	Max.level difference of in&outdoor units		m	15	15	15	15
Loading quantity		40'GP/40'HQ		102/116	102/116	97/89	70/86



Model		Indoor unit		GTH30K3CI ^{NEW}	GTH36K3CI ^{NEW}	GTH42K3CI ^{NEW}	GTH48K3CI ^{NEW}
		Outdoor unit		GUHD30NK3CO	GUHD36NK3CO	GUHD42NK3CO	GUHD48NK3CO
Characteristics of units	Capacity	Cooling	W	8800	10600	11900	14000
			Btu/h	30000	36160	40600	48000
		Heating	W	9500	12000	13500	16500
			Btu/h	32400	40940	46060	56000
	Power supply	V-Ph-Hz		220-240V-1Ph-50Hz	220-240V-1Ph-50Hz	220-240V-1Ph-50Hz	220-240V-1Ph-50Hz
	Power input	Cooling	W	2750	3260	3707	4200
		Heating	W	2640	3160	3300	4400
	Current input	Cooling	A	12.08	14.92	16.50	20.00
		Heating	A	11.59	14.46	16.64	21.00
	EER		W/W	3.20	3.25	3.21	3.33
C.O.P		W/W	3.60	3.80	4.09	3.75	
Refrigerant charged volume		kg	2.60	3.50	3.80	4.30	
Indoor unit	Airflow volume		m ³ /h	1600	2000	2000	2300
			CFM	942	1176	1176	1353
	Sound pressure level		dB(A)	50/48/46	54/51/48	54/51/48	58/55/52
	Outline dimension	W×D×H	mm	1420×700×245	1420×700×245	1420×700×245	1700×700×245
Package dimension	W×D×H	mm	1545×825×330	1545×825×330	1545×825×330	1825×825×330	
Net weight/Gross weight		kg	51/58	53/61	55/63	64/72	
Sound pressure level		dB(A)	59	61	61	61	
Outdoor unit	Outline dimension	W×D×H	mm	980×427×790	1107×440×1100	1107×440×1100	1085×427×1365
	Package dimension	W×D×H	mm	1080×485×840	1155×490×1220	1155×490×1220	1140×475×1490
	Net weight/Gross weight		kg	68/74	86/97	90/101	122/128
	Sound pressure level		dB(A)	59	61	61	61
Connection pipe	Diameter	Liquid pipe	inch	3/8	3/8	3/8	3/8
		Gas pipe	inch	5/8	5/8	5/8	5/8
	Max.piping length		m	30	30	50	50
	Max.level difference of in&outdoor units		m	15	15	30	30
Loading quantity		40'GP/40'HQ		57/67	39/41	39/41	32/38



Model		Indoor unit		GTH36K3CI ^{NEW}	GTH42K3CI ^{NEW}	GTH48K3CI ^{NEW}	GTH60K3CI ^{NEW}
		Outdoor unit		GUHD36NM3CO	GUHD42NM3CO	GUHD48NM3CO	GUHD60NM3CO
Characteristics of units	Capacity	Cooling	W	10600	11900	14000	16000
			Btu/h	36160	40600	48000	54500
		Heating	W	12000	13000	16500	17500
			Btu/h	40940	44356	56000	59700
	Power supply	V-Ph-Hz		380-415V-3Ph-50Hz	380-415V-3Ph-50Hz	380-415V-3Ph-50Hz	380-415V-3Ph-50Hz
	Power input	Cooling	W	3262	3600	4200	5000
		Heating	W	3077	3300	4400	4860
	Current input	Cooling	A	4.90	5.60	20.00	12.63
		Heating	A	4.60	5.40	21.00	12.27
	EER		W/W	3.25	3.30	3.33	3.20
C.O.P		W/W	3.90	3.94	3.75	3.60	
Refrigerant charged volume		kg	3.50	3.80	4.30	5.50	
Indoor unit	Airflow volume		m ³ /h	2000	2000	2300	2300
			CFM	1176	1176	1353	1353
	Sound pressure level		dB(A)	54/51/48	54/51/48	58/55/52	58/55/52
	Outline dimension	W×D×H	mm	1420×700×245	1420×700×245	1700×700×245	1700×700×245
Package dimension	W×D×H	mm	1545×825×330	1545×825×330	1825×825×330	1825×825×330	
Net weight/Gross weight		kg	53/61	55/63	64/72	65/73	
Sound pressure level		dB(A)	61	61	61	63	
Outdoor unit	Outline dimension	W×D×H	mm	1107×440×1100	1107×440×1100	1085×427×1365	1085×427×1365
	Package dimension	W×D×H	mm	1155×490×1220	1155×490×1220	1140×475×1490	1140×475×1490
	Net weight/Gross weight		kg	95/100	98/103	122/128	127/133
	Sound pressure level		dB(A)	61	61	61	63
Connection pipe	Diameter	Liquid pipe	inch	3/8	3/8	3/8	3/8
		Gas pipe	inch	5/8	5/8	5/8	3/4
	Max.piping length		m	30	50	50	50
	Max.level difference of in&outdoor units		m	15	30	30	30
Loading quantity		40'GP/40'HQ		39/41	39/41	32/38	32/38

Floor Standing Type



24/48kBtu/h

Wireless
Controller
(standard)Wired
Controller
(standard)

- Originated environment mode satisfies different demands on environment and create comfortable space. Originated comfortable energy saving mode; Intelligence + controllable auxiliary electric heating; Rounding and tridimensional air supply distribute comfortable air to every corner in the room.



- ◇ Auto diagnosis
- ◇ Fashionable and novel appearance
- ◇ Quiet operation
- ◇ Intelligent drainage device
- ◇ Long life filter
- ◇ Wider air supply and swing angle
- ◇ Dynamic color display



Model		Indoor unit		GLH24K3CI <small>NEW</small>	GLH48K3CI <small>NEW</small>	GLH48K3CI <small>NEW</small>
		Outdoor unit		GUHD24NK3CO	GUHD48NK3CO	GUHD48NM3CO
Characteristics of units	Capacity	Cooling	W	7032	14005	14005
			Btu/h	24000	47800	47800
		Heating	W	7178	15500	15500
			Btu/h	24500	52900	52900
	Power supply	V-Ph-Hz		220-240V-1Ph-50Hz	220-240V-1Ph-50Hz	380-410V-3Ph-50Hz
	Power input	Cooling	W	2130	4365	4365
		Heating	W	1990	4080	4080
	Current input	Cooling	A	9.40	19.20	19.20
		Heating	A	9.20	19.00	19.00
	EER		W/W	3.30	3.21	3.21
C.O.P		W/W	3.61	3.81	3.81	
Refrigerant charged volume		kg	2.40	4.20	4.20	
Indoor unit	Airflow volume		m ³ /h	1100	1800	1800
			CFM	647	1059	1059
	External static pressure		Pa	-	-	-
	Sound pressure level		dB(A)	48/45/42/40	52/50/48/46	52/50/48/46
	Outline dimension	W×D×H	mm	500×1757×300	518×1870×395	518×1870×395
	Package dimension	W×D×H	mm	630×1940×435	735×2080×530	735×2080×530
Net weight/Gross weight		kg	40/46	63/89	63/89	
Outdoor unit	Sound pressure level		dB(A)	59	63	63
	Outline dimension	W×D×H	mm	980×427×790	1085×427×1365	1085×427×1365
	Package dimension	W×D×H	mm	1080×485×840	1140×475×1480	1140×475×1480
	Net weight/Gross weight		kg	63/67	133/145	133/145
Connection pipe	Diameter	Liquid pipe	inch	3/8	3/8	3/8
		Gas pipe	inch	5/8	5/8	5/8
	Max.piping length		m	30	50	50
	Max.level difference of in&outdoor units		m	15	30	30
Loading quantity		40'GP/40'HQ		48/54	26/26	35/40

Unitary Air Conditioner

U-Match Series DC Inverter R410A

▶ Normal Energy Efficiency Outdoor Unit — Generation I & II



9/12/18kBTu/h



24kBTu/h



30/36kBTu/h



42kBTu/h



48/60kBTu/h



- ◇ Excellent performance thanks to DC inverter technology.
- ◇ Universal outdoor unit can match with different types of indoor units.
- ◇ Free combination to meet different preference and match interior decoration.
- ◇ Optimized designed for R410A refrigerant.
- ◇ Weekly timer(optional)



Easy installation



Compact design



Quiet design



Long life and washable filter



Weekly timer (optional)



Nominal Operating Condition

Item	Outdoor Condition		Indoor Condition	
	DB Temperature(°C)	WB Temperature(°C)	DB Temperature(°C)	WB Temperature(°C)
Cooling	35	24	27	19
Heating	7	6	20	15

Operation Range	Item	Outdoor Condition(DB°C)	
	Cooling	with low ambient cooling(°C)	-7~48
		without low ambient cooling(°C)	18~48
Heating	(°C)	-7~24	

Duct Type



9kBtu/h~18kBtu/h



24kBtu/h~60kBtu/h

Wireless
Controller
(standard)Wired
Controller
(standard)

- Combining comfort of central air conditioners and easy and flexible installation of split air conditioner, duct type split unit features high efficiency, long-distance and high quality air supply, reliable operation, easy operation, overall functions, etc. It can be widely used in small-sized supermarket, shop, house, hotel, restaurant, office, meeting room, and villa etc.



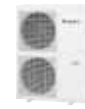
- ◇ Simple wire connection design.
- ◇ Compact design, with 220mm minimum height.
- ◇ Low noise.
- ◇ Reserved interface for 11 steps adjustable fresh air control.
- ◇ Long lifespan and washable filter.
- ◇ Wired remote control fitted as standard.
- ◇ Wireless remote control(standard).
- ◇ Drain pump with 1100mm lift head(for 24~60kBtu/h unit).
- ◇ For Normal Energy Efficiency Outdoor Unit Only.



Model	Indoor unit		GFH09K3AI	GFH12K3AI	GFH18K3AI	
	Outdoor unit		GUHD09NK3AO	GUHD12NK3AO	GUHD18NK3AO	
Characteristics of units	Capacity	Cooling	W	2600	3500	5000
			Btu/h	8900	11900	17000
		Heating	W	2900	3900	5800
			Btu/h	9900	13300	19800
	Power supply	V-Ph-Hz		220-240V-1Ph-50Hz	220-240V-1Ph-50Hz	220-240V-1Ph-50Hz
	Power input	Cooling	W	780	940	1570
		Heating	W	860	1030	1530
	Current input	Cooling	A	6.50	7.50	11.50
		Heating	A	7.00	8.50	13.50
		EER	W/W	3.33	3.72	3.18
	C.O.P	W/W	3.37	3.79	3.79	
	Refrigerant charged volume	kg	1.00	1.25	1.50	
Indoor unit	Airflow volume		m ³ /h	550	600	840
			CFM	324	353	495
	Esp default		Pa	25	25	25
	Esp range		Pa	0~25	0~25	0~60
	Sound pressure level		dB(A)	37/36/34	40/38/36	42/40/38
	Outline dimension	W×D×H	mm	913×680×220	913×680×220	1012×736×266
	Package dimension	W×D×H	mm	995×750×273	995×750×273	1120×795×323
	Net weight/Gross weight	kg	24/29	25/30	34/41	
Outdoor unit	Sound pressure level		dB(A)	55	56	56
	Outline dimension	W×D×H	mm	820×320×540	820×320×540	820×320×540
	Package dimension	W×D×H	mm	870×360×590	870×360×590	870×360×590
	Net weight/Gross weight		kg	34/38	36/40	36/40
	Connection pipe	Diameter	Liquid pipe	inch	1/4	1/4
Gas pipe			inch	3/8	1/2	1/2
Max.piping length		m	20	20	20	
Max.level difference of in&outdoor units		m	15	15	15	
Loading quantity	40'GP/40'HQ		123/160	123/160	116/132	



Model		Indoor unit		GFH24K3AI	GFH30K3A1I	GFH36K3A1I	GFH36K3A1I
		Outdoor unit		GUHD24NK3B0	GUHD30NK3B0	GUHD36NK3B0	GUHD36NM3B0
Characteristics of units	Capacity	Cooling	W	7000	8800	10000	10000
			Btu/h	24000	30000	34100	34100
		Heating	W	8000	9500	10800	10800
			Btu/h	27300	32500	36800	36800
	Power supply	V-Ph-Hz		220-240V-1Ph-50Hz	220-240V-1Ph-50Hz	220-240V-1Ph-50Hz	380-415V-3Ph-50Hz
	Power input	Cooling	W	2410	3150	3500	3500
		Heating	W	2280	3100	2900	2900
	Current input	Cooling	A	11.00	13.70	15.00	5.40
		Heating	A	10.00	13.60	12.00	4.30
	EER		W/W	2.90	2.79	2.85	2.85
C.O.P		W/W	3.51	3.06	3.72	3.72	
Refrigerant charged volume		kg	1.80	2.50	2.60	2.60	
Indoor unit	Airflow volume		m ³ /h	1600	1500	2000	2000
			CFM	942	882	1177	1177
	Esp default		Pa	25	37	37	37
	Esp range		Pa	0~100	0~100	0~150	0~150
	Sound pressure level		dB(A)	47/44/42	47/44/42	50/48/46	50/48/46
	Outline dimension	W×D×H	mm	1270×530×268	1270×530×268	1226×775×290	1226×775×290
	Package dimension	W×D×H	mm	1345×594×283	1345×594×283	1335×834×305	1335×834×305
Net weight/Gross weight		kg	37/43	37/43	54/61	54/61	
Outdoor unit	Sound pressure level		dB(A)	59	59	62	62
	Outline dimension	W×D×H	mm	913×378×680	980×427×790	980×427×790	980×427×790
	Package dimension	W×D×H	mm	994×428×750	1080×485×840	1080×485×840	1080×485×840
	Net weight/Gross weight		kg	51/55	63/67	70/78	70/78
Connection pipe	Diameter	Liquid pipe	inch	3/8	3/8	3/8	3/8
		Gas pipe	inch	5/8	5/8	5/8	5/8
	Max.piping length		m	30	30	30	30
	Max.level difference of in&outdoor units		m	15	15	15	15
Loading quantity		40'GP/40'HQ		92/103	74/85	59/72	59/72



Model		Indoor unit		GFH42K3A1I	GFH48K3A1I	GFH60K3A1I
		Outdoor unit		GUHD42NM3A0 GUHD42NK3B0	GUHD48NM3A0 GUHD48NK3B0	GUHD60NM3A0
Characteristics of units	Capacity	Cooling	W	11900	14000	16000
			Btu/h	40600	48000	18000
		Heating	W	13200	15500	54600
			Btu/h	45000	52890	61400
	Power supply	V-Ph-Hz		220-240V-1Ph-50Hz	220-240V-1Ph-50Hz	380-415V-3Ph-50Hz
	Power input	Cooling	W	4170	4980	6100
		Heating	W	3940	4430	5500
	Current input	Cooling	A	19.60	24.30	15.20
		Heating	A	17.50	20.10	11.80
	EER		W/W	2.85	2.81	2.62
C.O.P		W/W	3.35	3.50	3.27	
Refrigerant charged volume		kg	3.50	4.00	4.30	
Indoor unit	Airflow volume		m ³ /h	2000	2300	2500
			CFM	1177	1353	1473
	Esp default		Pa	37	50	50
	Esp range		Pa	0~150	0~150	0~150
	Sound pressure level		dB(A)	50/48/46	53/50/46	53/50/48
	Outline dimension	W×D×H	mm	1226×775×290	1226×755×290	1226×788×330
	Package dimension	W×D×H	mm	1335×834×305	1335×834×305	1335×882×345
Net weight/Gross weight		kg	54/61	57/67	66/76	
Outdoor unit	Sound pressure level		dB(A)	60	63	64
	Outline dimension	W×D×H	mm	1107×440×1100	1032×412×1250	1032×412×1250
	Package dimension	W×D×H	mm	1155×490×1220	1110×450×1385	1110×450×1385
	Net weight/Gross weight		kg	88/98	128/139	131/142
Connection pipe	Diameter	Liquid pipe	inch	3/8	3/8	1/2
		Gas pipe	inch	5/8	5/8	3/4
	Max.piping length		m	50	50	50
	Max.level difference of in&outdoor units		m	30	30	30
Loading quantity		40'GP/40'HQ		45/60	45/49	45/49

Four-way Cassette Type



18k Btu/h



24k Btu/h~48k Btu/h



Wireless Controller (standard)



Wired Controller (standard)

Its 4-way air supply design makes the environment more comfortable. With the features of compact structure, slim body, good-looking appearance, easy installation and overall control functions, this unit is widely used in the hotel, hall, meeting room, restaurant, shop, office and so on.



- ◇ The unit is compact, thin and light in weight.
- ◇ Low noise.
- ◇ Wired remote control fitted as standard.
- ◇ Wireless remote control (standard).
- ◇ Long lifespan and washable filter.
- ◇ Water pump fitted as standard.



Model		Indoor unit		GKH18K3AI	GKH24K3AI	GKH30K3AI
		Outdoor unit		GUHD18NK3AO	GUHD24NK3BO	GUHD30NK3BO
Characteristics of units	Capacity	Cooling	W	5000	7000	8500
			Btu/h	17000	24000	29000
		Heating	W	5800	8000	8800
			Btu/h	19800	27300	30000
	Power supply	V-Ph-Hz		220-240V-1Ph-50Hz	220-240V-1Ph-50Hz	220-240V-1Ph-50Hz
	Power input	Cooling	W	1710	2490	2900
		Heating	W	1930	2110	3150
	Current input	Cooling	A	11.50	11.50	12.70
		Heating	A	13.50	11.00	13.80
	EER		W/W	2.92	2.81	2.93
C.O.P		W/W	3.00	3.79	2.79	
Refrigerant charged volume		kg	1.50	1.80	2.50	
Indoor unit (Main body)	Airflow volume		m ³ /h	680	1180	1400
			CFM	401	694	824
	Sound pressure level		dB(A)	47/45/42	47/45/42	51/49/48
	Outline dimension	W×D×H	mm	600×600×230	840×840×240	840×840×240
Package dimension	W×D×H	mm	848×678×310	960×960×310	960×960×310	
Net weight/Gross weight		kg	20/27	30/38	27/36	
Panel	Outline dimension	W×D×H	mm	650×650×50	950×950×60	950×950×60
	Package dimension	W×D×H	mm	670×730×102	1025×1040×115	1025×1040×115
	Net weight/Gross weight		kg	2.5/3.5	6.5/10.0	6.5/10.0
Outdoor unit	Sound pressure level		dB(A)	56	59	59
	Outline dimension	W×D×H	mm	820×320×540	913×378×680	980×427×790
	Package dimension	W×D×H	mm	870×360×590	994×428×750	1080×485×840
	Net weight/Gross weight		kg	36/40	51/55	63/67
Connection pipe	Diameter	Liquid pipe	inch	1/4	3/8	3/8
		Gas pipe	inch	1/2	5/8	5/8
	Max.piping length		m	20	30	30
	Max.level difference of in&outdoor units		m	15	15	15
Loading quantity	40'GP/40'HQ			113/144	70/74	56/64



Model		Indoor unit		GKH36K3A11	GKH36K3A11	GKH42K3A11	GKH48K3A11
		Outdoor unit		GUHD36NK3B0	GUHD36NM3B0	GUHD42NM3A0 GUHD42NK3B0	GUHD48NM3A0 GUHD48NK3B0
Characteristics of units	Capacity	Cooling	W	10000	10000	11900	14000
			Btu/h	34100	34100	40600	48000
		Heating	W	10800	10800	13000	15500
			Btu/h	36800	36800	44350	52900
	Power supply	V-Ph-Hz		220-240V-1Ph-50Hz	380-415V-3Ph-50Hz	220-240V-1Ph-50Hz	220-240V-1Ph-50Hz
	Power input	Cooling	W	3600	3600	4220	4960
			W	3000	3000	4000	4770
	Current input	Cooling	A	15.00	5.50	20.00	23.50
			A	13.00	4.40	19.10	20.10
	EER		W/W	2.78	2.78	2.82	2.83
C.O.P		W/W	3.60	3.60	3.25	3.30	
Refrigerant charged volume		kg	2.60	2.60	3.50	4.00	
Indoor unit (Main body)	Airflow volume		m ³ /h	1660	1660	1660	1660
			CFM	977	977	977	977
	Sound pressure level		dB(A)	53/51/48	53/51/48	53/51/48	53/51/48
	Outline dimension	W×D×H	mm	840×840×320	840×840×320	840×840×320	840×840×320
	Package dimension	W×D×H	mm	960×960×394	960×960×394	960×960×394	960×960×394
Net weight/Gross weight		kg	32/43	32/43	32/43	32/43	
Panel	Outline dimension	W×D×H	mm	950×950×60	950×950×60	950×950×60	950×950×60
	Package dimension	W×D×H	mm	1025×1040×115	1025×1040×115	1025×1040×115	1025×1040×115
	Net weight/Gross weight		kg	6.5/10.0	6.5/10.0	6.5/10.0	6.5/10.0
Outdoor unit	Sound pressure level		dB(A)	62	62	60	63
	Outline dimension	W×D×H	mm	980×427×790	980×427×790	1107×440×1100	1032×412×1250
	Package dimension	W×D×H	mm	1080×485×840	1080×485×840	1155×490×1220	1110×450×1385
	Net weight/Gross weight		kg	70/78	70/78	88/98	128/139
Connection pipe	Diameter	Liquid pipe	inch	3/8	3/8	3/8	3/8
		Gas pipe	inch	5/8	5/8	5/8	5/8
	Max.piping length		m	30	30	50	50
Max.level difference of in&outdoor units		m	15	15	30	30	
Loading quantity	40'GP/40'HQ			46/53	46/53	42/48	42/48



Floor Ceiling Type



9kBtu/h~18kBtu/h



24/30kBtu/h



36kBtu/h~48kBtu/h



Wireless Controller (standard)



Wired Controller (standard)

It can be installed on the floor or under the ceiling. With the features of easy and flexible installation, wide range and long distance air supply, good performance, various control functions and slim body, it is especially applicable to the hotel, office, meeting room with low space room.



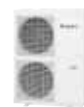
- ◇ Slim design.
- ◇ Low noise.
- ◇ Plastic case.
- ◇ Wired remote control(optional).
- ◇ Wireless remote control(standard).
- ◇ Long lifespan and washable filter.
- ◇ Stand and ceiling convertible.



Model		Indoor unit		GTH09K3AI	GTH12K3AI	GTH18K3AI
		Outdoor unit		GUHD09NK3AO	GUHD12NK3AO	GUHD18NK3AO
Characteristics of units	Capacity	Cooling	W	2600	3500	5000
			Btu/h	8900	11900	17000
		Heating	W	2900	3900	5800
			Btu/h	9900	13300	19800
	Power supply	V-Ph-Hz		220-240V-1Ph-50Hz	220-240V-1Ph-50Hz	220-240V-1Ph-50Hz
	Power input	Cooling	W	810	1040	1810
		Heating	W	940	1240	1940
	Current input	Cooling	A	6.50	7.50	11.50
		Heating	A	7.00	8.50	13.50
	EER		W/W	3.21	3.37	2.76
C.O.P		W/W	3.09	3.15	2.99	
Refrigerant charged volume		kg	1.00	1.25	1.50	
Indoor unit	Airflow volume		m ³ /h	550	550	700
			CFM	324	324	412
	Sound pressure level		dB(A)	46/42/38	46/42/38	54/50/46
	Outline dimension	W×D×H	mm	836×695×238	836×695×238	836×695×238
	Package dimension	W×D×H	mm	935×805×295	935×805×295	935×805×295
	Net weight/Gross weight		kg	25/32	26/33	26/33
Outdoor unit	Sound pressure level		dB(A)	55	56	56
	Outline dimension	W×D×H	mm	820×320×540	820×320×540	820×320×540
	Package dimension	W×D×H	mm	870×360×590	870×360×590	870×360×590
	Net weight/Gross weight		kg	34/38	36/40	36/40
Connection pipe	Diameter	Liquid pipe	inch	1/4	1/4	1/4
		Gas pipe	inch	3/8	1/2	1/2
	Max.piping length		m	20	20	20
	Max.level difference of in&outdoor units		m	15	15	15
Loading quantity	40'GP/40'HQ			116/143	116/143	116/143



Model		Indoor unit		GTHK24K3AI	GTH30K3A1I	GTH36K3A1I
		Outdoor unit		GUHD24NK3BO	GUHD30NK3BO	GUHD36NK3BO
Characteristics of units	Capacity	Cooling	W	7000	8800	10000
			Btu/h	24000	30000	34100
		Heating	W	8000	9500	10800
			Btu/h	27300	32500	36800
	Power supply	V-Ph-Hz		220-240V-1Ph-50Hz	220-240V-1Ph-50Hz	220-240V-1Ph-50Hz
	Power input	Cooling	W	2430	3750	3400
		Heating	W	2200	3350	2900
	Current input	Cooling	A	10.70	16.40	14.00
		Heating	A	10.10	14.70	13.00
	EER		W/W	2.88	2.35	2.94
C.O.P		W/W	3.64	2.84	3.72	
Refrigerant charged volume		kg	1.80	2.50	2.60	
Indoor unit	Airflow volume		m ³ /h	1170	1170	1800
			CFM	689	689	1059
	Sound pressure level		dB(A)	50/48/46	53/50/49	54/51/48
	Outline dimension	W×D×H	mm	1300×600×188	1300×600×188	1590×695×238
	Package dimension	W×D×H	mm	1414×724×248	1414×724×248	1714×830×330
Net weight/Gross weight		kg	33/40	33/40	48/58	
Outdoor unit	Sound pressure level		dB(A)	59	59	62
	Outline dimension	W×D×H	mm	913×378×680	980×427×790	980×427×790
	Package dimension	W×D×H	mm	994×428×750	1080×485×840	1080×485×840
	Net weight/Gross weight		kg	51/55	63/67	70/78
	Connection pipe	Diameter	Liquid pipe	inch	3/8	3/8
Gas pipe			inch	5/8	5/8	5/8
Max.piping length		m	30	30	30	
Max.level difference of in&outdoor units		m	15	15	15	
Loading quantity		40'GP/40'HQ		96/102	72/84	51/64



Model		Indoor unit		GTH36K3A1I	GTH42K3A1I	GTH48K3A1I
		Outdoor unit		GUHD36NM3BO	GUHD42NM3AO GUHD42NK3BO	GUHD48NM3AO GUHD48NK3BO
Characteristics of units	Capacity	Cooling	W	10000	12000	14000
			Btu/h	34100	41000	48000
		Heating	W	10800	13000	15500
			Btu/h	36800	44300	52900
	Power supply	V-Ph-Hz		380-415V-3Ph-50Hz	220-240V-1Ph-50Hz	220-240V-1Ph-50Hz
	Power input	Cooling	W	3400	4140	4960
		Heating	W	2900	3940	4690
	Current input	Cooling	A	5.30	19.40	23.50
		Heating	A	4.30	17.50	20.10
	EER		W/W	2.94	2.90	2.82
C.O.P		W/W	3.72	3.30	3.30	
Refrigerant charged volume		kg	2.60	3.50	4.00	
Indoor unit	Airflow volume		m ³ /h	1800	1800	2100
			CFM	1059	1059	1236
	Sound pressure level		dB(A)	54/51/48	54/51/48	54/51/48
	Outline dimension	W×D×H	mm	1590×695×238	1590×695×238	1590×695×238
	Package dimension	W×D×H	mm	1714×830×330	1714×830×330	1714×830×330
Net weight/Gross weight		kg	48/58	48/58	48/58	
Outdoor unit	Sound pressure level		dB(A)	62	60	63
	Outline dimension	W×D×H	mm	980×427×790	1107×440×1100	1032×412×1250
	Package dimension	W×D×H	mm	1080×485×840	1155×490×1220	1110×450×1385
	Net weight/Gross weight		kg	70/78	88/98	128/139
	Connection pipe	Diameter	Liquid pipe	inch	3/8	3/8
Gas pipe			inch	5/8	5/8	5/8
Max.piping length		m	30	50	50	
Max.level difference of in&outdoor units		m	15	30	30	
Loading quantity		40'GP/40'HQ		51/64	46/59	44/49

Unitary Air Conditioner

U-Match Series Fixed Frequency R410A

▶ Normal Energy Efficiency Outdoor Unit — B Series Outdoor Unit



9/12/18kBTu/h



24kBTu/h



30kBTu/h



36kBTu/h



42/48/60kBTu/h



- ◇ Universal outdoor unit can match with different types of indoor units.
- ◇ Free combination to meet different preference and match interior decoration.
- ◇ Optimized components for R410A refrigerant.
- ◇ Weekly timer(optional).
- ◇ Long distance monitoring(optional).
- ◇ Testing software(optinal).



Easy installation



Compact design



Quiet design



Long life and washable filter



Weekly timer (optional)



Nominal Operating Condition

Item	Outdoor Condition		Indoor Condition	
	DB Temperature(°C)	WB Temperature(°C)	DB Temperature(°C)	WB Temperature(°C)
Cooling	35	24	27	19
Heating	7	6	20	15

Operation Range	Item	Outdoor Condition(DB °C)		
	Cooling	with low ambient cooling (°C)	-7~43	
		without low ambient cooling (°C)	18~43	
Heating	(°C)	-7~24		

Duct Type



9k Btu/h~18k Btu/h



24k Btu/h~60k Btu/h

Wireless
Controller
(optional)Wired
Controller
(standard)

- Combining comfort of central air conditioners and easy and flexible installation of split air conditioner, duct type split unit features high efficiency, long-distance and high quality air supply, reliable operation, easy operation, overall functions, etc. It can be widely used in small-sized supermarket, shop, house, hotel, restaurant, office, meeting room, and villa etc.



- ◇ Simple wire connection design.
- ◇ Compact design, with 220mm minimum height.
- ◇ Reserved interface for 11 steps adjustable fresh air control.
- ◇ Long lifespan and washable filter.
- ◇ Wired remote control fitted as standard.
- ◇ Wireless remote control(optional).
- ◇ Drain pump with 1100mm lift head(for 24~60k Btu/h unit)(Optional).



Model		Indoor unit		GFH09K3BI	GFH12K3BI	GFH18K3BI	GFH24K3BI	GFH30K3BI
		Outdoor unit		GUHN09NK3AO	GUHN12NK3AO	GUHN18NK3AO	GUHN24NK3AO	GUHN30NK3AO
Characteristics of units	Capacity	Cooling	W	2600	3500	5000	7000	8300
			Btu/h	8900	11900	17000	24000	28300
		Heating	W	2850	3600	5700	8000	9100
			Btu/h	9700	12300	19400	27300	31000
	Power supply	V-Ph-Hz		220-240V-1Ph-50Hz	220-240V-1Ph-50Hz	220-240V-1Ph-50Hz	220-240V-1Ph-50Hz	220-240V-1Ph-50Hz
	Power input	Cooling	W	1000	1200	2100	2660	3000
			Heating	W	970	1100	1800	2510
	Current input	Cooling	A	4.41	5.43	9.38	12.42	13.45
			Heating	A	4.39	5.39	8.04	10.76
	EER		W/W	2.60	2.92	2.38	2.63	2.77
C.O.P		W/W	2.94	3.27	3.17	3.19	3.03	
Refrigerant charged volume		kg	1.10	1.00	1.50	2.20	3.60	
Indoor unit	Airflow volume		m ³ /h	550	600	840	1600	1500
			CFM	324	353	495	942	882
	Esp default		Pa	25	25	25	25	37
	Esp range		Pa	0~25	0~25	0~60	0~100	0~100
	Sound pressure level		dB(A)	37/36/34	40/38/36	42/40/38	47/44/42	47/44/42
	Outline dimension	W×D×H	mm	913×680×220	913×680×220	1012×736×266	1270×530×268	1270×530×268
	Package dimension	W×D×H	mm	995×750×273	995×750×273	1120×795×323	1345×594×283	1345×594×283
Net weight/Gross weight		kg	24/29	25/30	34/41	37/43	37/43	
Outdoor unit	Sound pressure level		dB(A)	55	56	56	59	59
	Outline dimension	W×D×H	mm	820×320×540	820×320×540	820×320×540	1018×412×695	980×427×790
	Package dimension	W×D×H	mm	870×360×590	870×360×590	870×360×590	1100×450×755	1080×485×840
	Net weight/Gross weight		kg	32/37	32/37	40/45	59/64	70/75
Connection pipe	Diameter	Liquid pipe	inch	1/4	1/4	1/4	3/8	3/8
		Gas pipe	inch	3/8	1/2	1/2	5/8	5/8
	Max.piping length		m	20	20	20	30	30
Max.level difference of in&outdoor units		m	15	15	15	15	15	
Loading quantity		40'GP/40'HQ		123/160	123/160	116/132	92/94	74/85



Model		Indoor unit		GFH36K3BI	GFH36K3BI	GFH42K3BI	GFH48K3BI	GFH60K3BI
		Outdoor unit		GUHN36NK3AO	GUHN36NM3AO	GUHN42NM3AO	GUHN48NM3AO	GUHN60NM3AO
Characteristics of units	Capacity	Cooling	W	9800	9800	12000	14000	16000
			Btu/h	33400	33400	41000	48000	54600
		Heating	W	11000	11000	14000	15500	18500
			Btu/h	37500	37500	48000	52900	63100
	Power supply	V-Ph-Hz		220-240V -1Ph-50Hz	380-415V -3Ph-50Hz	380-415V -3Ph-50Hz	380-415V -3Ph-50Hz	380-415V -3Ph-50Hz
	Power input	Cooling	W	4000	4000	5300	5800	6500
		Heating	W	3500	3500	4900	5400	5500
	Current input	Cooling	A	20.82	7.11	8.98	9.48	10.69
		Heating	A	18.21	6.15	8.42	8.79	10.73
	EER	W/W		2.45	2.45	2.26	2.41	2.46
C.O.P	W/W		3.14	3.14	2.86	2.87	3.36	
Refrigerant charged volume	kg		3.20	3.20	3.55	3.80	5.00	
Indoor unit	Airflow volume		m ³ /h	2000	2000	2000	2300	2500
			CFM	1178	1178	1178	1355	1473
	Esp default	Pa		37	37	37	50	50
	Esp range	Pa		0~150	0~150	0~150	0~150	0~150
	Sound pressure level	dB(A)		50/48/46	50/48/46	50/48/46	53/50/46	53/50/48
	Outline dimension	W×D×H	mm	1226×775×290	1226×775×290	1226×775×290	1226×775×290	1226×815×330
	Package dimension	W×D×H	mm	1335×834×305	1335×834×305	1335×834×305	1335×834×305	1335×882×345
Net weight/Gross weight	kg		54/61	54/61	54/61	57/67	66/76	
Outdoor unit	Sound pressure level		dB(A)	60	60	60	63	64
	Outline dimension	W×D×H	mm	1018×412×840	1018×412×840	1032×412×1250	1032×412×1250	1032×412×1250
	Package dimension	W×D×H	mm	1100×450×985	1100×450×985	1110×450×1385	1110×450×1385	1110×450×1385
	Net weight/Gross weight	kg		90/100	90/100	112/123	112/123	123/134
	Connection pipe	Diameter	Liquid pipe	inch	1/2	1/2	1/2	1/2
Gas pipe			inch	3/4	3/4	3/4	3/4	3/4
Max.piping length		m	50	50	50	50	50	
Max.level difference of in&outdoor units		m	30	30	30	30	30	
Loading quantity	40'GP/40'HQ		64/70	64/70	45/49	45/49	45/49	



Four-way Cassette Type



12k Btu/h~18k Btu/h



24k Btu/h~48k Btu/h

Wireless
Controller
(optional)Wired
Controller
(standard)

Its 4-way air supply design makes the environment more comfortable. With the features of compact structure, slim body, good-looking appearance, easy installation and overall control functions, this unit is widely used in the hotel, hall, meeting room, restaurant, shop, office and so on.



- ◇ The unit is compact, thin and light in weight.
- ◇ Low noise.
- ◇ Different kind of wired remote control available (optional).
- ◇ Wired remote control fitted as standard.
- ◇ Wireless remote control (optional).
- ◇ Long lifespan and washable filter.
- ◇ Water pump fitted as standard.

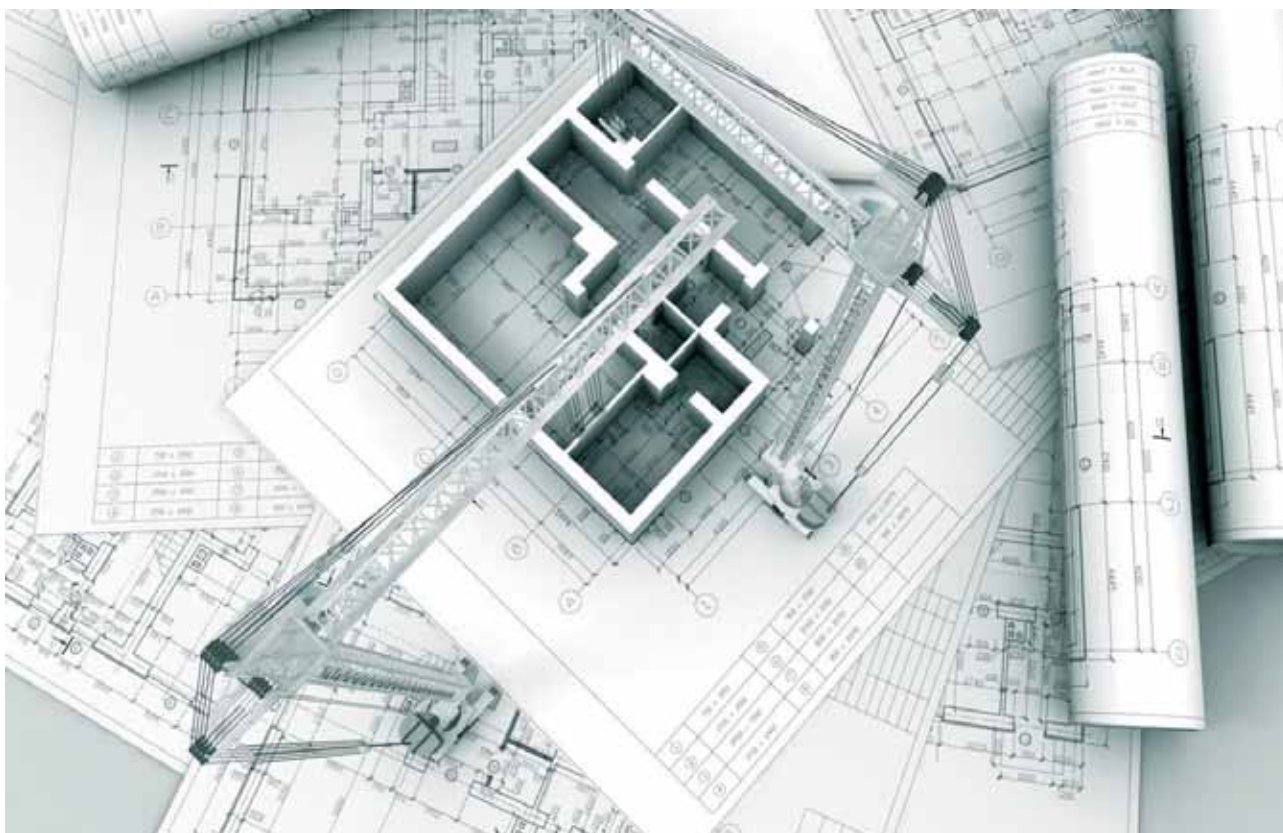


Model		Indoor unit		GKH12K3BI	GKH18K3BI	GKH24K3BI	GKH30K3BI
		Outdoor unit		GUHN12NK3AO	GUHN18NK3AO	GUHN24NK3AO	GUHN30NK3AO
Characteristics of units	Capacity	Cooling	W	3500	5000	6800	8300
			Btu/h	11900	17000	23200	28300
		Heating	W	3600	5400	7500	8800
			Btu/h	12300	18400	25600	30000
	Power supply	V-Ph-Hz		220-240V-1Ph-50Hz	220-240V-1Ph-50Hz	220-240V-1Ph-50Hz	220-240V-1Ph-50Hz
	Power input	Cooling	W	1170	2000	2620	2900
		Heating	W	1100	1900	2500	3150
	Current input	Cooling	A	5.35	9.00	11.84	13.12
		Heating	A	4.94	8.71	10.65	13.12
	EER		W/W	2.99	2.50	2.60	2.86
C.O.P		W/W	3.27	2.84	3.00	2.79	
Refrigerant charged volume		kg	1.00	1.50	2.20	3.60	
Indoor unit (main body)	Airflow volume		m ³ /h	550	550	1180	1400
			CFM	324	324	695	825
	Sound pressure level		dB(A)	47/45/43	47/45/43	47/45/43	51/49/48
	Outline dimension	W×D×H	mm	600×600×230	600×600×230	840×840×240	840×840×240
	Package dimension	W×D×H	mm	848×678×310	848×678×310	960×960×310	960×960×310
Net weight/Gross weight		kg	20/27	20/27	30/38	27/36	
Panel	Outline dimension	W×D×H	mm	650×650×50	650×650×50	950×950×60	950×950×60
	Package dimension	W×D×H	mm	670×730×102	670×730×102	1025×1040×115	1025×1040×115
	Net weight/Gross weight		kg	2.5/3.5	2.5/3.5	6.5/10.0	6.5/10.0
Outdoor unit	Sound pressure level		dB(A)	56	56	59	59
	Outline dimension	W×D×H	mm	820×320×540	820×320×540	1018×412×695	980×427×790
	Package dimension	W×D×H	mm	870×360×590	870×360×590	1100×450×755	1080×485×840
	Net weight/Gross weight		kg	32/37	40/45	59/64	70/75
Connection pipe	Diameter	Liquid pipe	inch	1/4	1/4	3/8	3/8
		Gas pipe	inch	1/2	1/2	5/8	5/8
	Max.piping length		m	20	20	30	30
	Max.level difference of in&outdoor units		m	15	15	15	15
Loading quantity		40'GP/40'HQ		113/144	113/144	52/60	56/64



Model		Indoor unit		GKH36K3BI	GKH36K3BI	GKH42K3BI	GKH48K3BI
		Outdoor unit		GUHN36NK3AO	GUHN36NM3AO	GUHN42NM3AO	GUHN48NM3AO
Characteristics of units	Capacity	Cooling	W	10000	10000	12000	14000
			Btu/h	34100	34100	41000	48000
		Heating	W	11000	11000	14000	15500
			Btu/h	37500	37500	48000	52900
	Power supply	V-Ph-Hz		220-240V-1Ph-50Hz	380-415V- 3Ph-50Hz	380-415V- 3Ph-50Hz	380-415V- 3Ph-50Hz
	Power input	Cooling	W	3600	3600	4800	5800
		Heating	W	3300	3100	5000	6200
	Current input	Cooling	A	19.78	6.60	8.70	9.10
		Heating	A	18.13	6.00	9.20	9.50
		EER	W/W	2.78	2.78	2.50	2.41
	C.O.P	W/W	3.33	3.55	2.80	2.50	
	Refrigerant charged volume	kg	3.20	3.20	3.55	3.80	
Indoor unit (main body)	Airflow volume		m ³ /h	1660	1660	1660	1660
			CFM	978	978	978	978
	Sound pressure level		dB(A)	53/51/48	53/51/48	53/51/48	53/51/48
	Outline dimension	W×D×H	mm	840×840×320	840×840×320	840×840×320	840×840×320
	Package dimension	W×D×H	mm	960×960×394	960×960×394	960×960×394	960×960×394
	Net weight/Gross weight	kg	32/43	32/43	32/43	32/43	
Panel	Outline dimension	W×D×H	mm	950×950×60	950×950×60	950×950×60	950×950×60
	Package dimension	W×D×H	mm	1025×1040×115	1025×1040×115	1025×1040×115	1025×1040×115
	Net weight/Gross weight	kg	6.5/10.0	6.5/10.0	6.5/10.0	6.5/10.0	
Outdoor unit	Sound pressure level		dB(A)	60	60	60	63
	Outline dimension	W×D×H	mm	1018×412×840	1018×412×840	1032×412×1250	1032×412×1250
	Package dimension	W×D×H	mm	1100×450×985	1100×450×985	1110×450×1385	1110×450×1385
	Net weight/Gross weight	kg	90/100	90/100	112/123	112/123	
Connection pipe	Diameter	Liquid pipe	inch	1/2	1/2	1/2	1/2
		Gas pipe	inch	3/4	3/4	3/4	3/4
	Max.piping length		m	50	50	50	50
	Max.level difference of in&outdoor units		m	30	30	30	30
Loading quantity	40'GP/40'HQ			44/53	44/53	42/48	42/48

*Low ambient cooling is optional.



Floor Ceiling Type



9kBtu/h~18kBtu/h



24/30kBtu/h



36kBtu/h~48kBtu/h

Wireless
Controller
(optional)Wired
Controller
(standard)

- It can be installed on the floor or under the ceiling. With the features of easy and flexible installation, wide range and long distance air supply, good performance, various control functions and slim body, it is especially applicable to the hotel, office, meeting room with low space room.



- ◇ Slim design.
- ◇ Low noise.
- ◇ Plastic case.
- ◇ Wired remote control fitted as standard.
- ◇ Wireless remote control(optional).
- ◇ Different kinds of wired remote available (optional).
- ◇ Long lifespan and washable filter.
- ◇ Stand and ceiling convertible.



Model	Indoor unit		GTH09K3BI	GTH12K3BI	GTH18K3BI	GTH24K3BI	GTH30K3BI	
	Outdoor unit		GUHN09NK3AO	GUHN12NK3AO	GUHN18NK3AO	GUHN24NK3AO	GUHN30NK3AO	
Characteristics of units	Capacity	Cooling	W	2600	3500	5000	7000	8800
			Btu/h	8900	11900	17000	24000	30000
		Heating	W	2850	3600	5700	8000	9800
			Btu/h	9700	12300	19400	27300	33400
	Power supply	V-Ph-Hz		220-240V-1Ph-50Hz	220-240V-1Ph-50Hz	220-240V-1Ph-50Hz	220-240V-1Ph-50Hz	220-240V-1Ph-50Hz
	Power input	Cooling	W	1000	1170	2030	2610	3000
		Heating	W	1000	1100	2070	2590	2850
	Current input	Cooling	A	4.65	5.35	9.29	12.53	13.60
		Heating	A	4.84	5.05	9.50	11.49	13.63
	EER	W/W	2.60	2.99	2.46	2.68	2.93	
C.O.P	W/W	2.85	3.27	2.75	3.09	3.44		
Refrigerant charged volume	kg	1.10	1.00	1.50	2.20	3.60		
Indoor unit	Airflow volume		m ³ /h	550	550	700	1170	1600
			CFM	324	324	412	689	942
	Sound pressure level		dB(A)	47/44/41	47/44/41	54/50/46	50/48/46	52/51/49
	Outline dimension	W×D×H	mm	836×695×238	836×695×238	836×695×238	1300×600×188	1420×700×245
	Package dimension	W×D×H	mm	935×805×295	935×805×295	935×805×295	1414×724×248	1545×825×330
Outdoor unit	Net weight/Gross weight		kg	25/32	26/33	26/33	33/40	50/59
	Sound pressure level		dB(A)	55	56	56	59	59
	Outline dimension	W×D×H	mm	820×320×540	820×320×540	820×320×540	1018×412×695	980×427×790
	Package dimension	W×D×H	mm	870×360×590	870×360×590	870×360×590	1100×450×755	1080×485×840
	Net weight/Gross weight		kg	32/37	32/37	40/45	59/64	70/75
Connection pipe	Diameter	Liquid pipe	inch	1/4	1/4	1/4	3/8	3/8
		Gas pipe	inch	3/8	1/2	1/2	5/8	5/8
	Max.piping length		m	20	20	20	30	30
Max.level difference of in&outdoor units		m	15	15	15	15	15	
Loading quantity	40'GP/40'HQ			116/143	116/143	116/143	88/98	72/84

*Low ambient cooling is optional.



Model		Indoor unit		GTH36K3BI	GTH36K3BI	GTH42K3BI	GTH48K3BI
		Outdoor unit		GUHN36NK3AO	GUHN36NM3AO	GUHN42NM3AO	GUHN48NM3AO
Characteristics of units	Capacity	Cooling	W	10000	9800	12000	14000
			Btu/h	34100	33400	41000	48000
		Heating	W	11000	10780	14000	15500
			Btu/h	37500	36800	48000	52900
	Power supply	V-Ph-Hz		220-240V-1Ph-50Hz	380-450V-3Ph-50Hz	380-450V-3Ph-50Hz	380-450V-3Ph-50Hz
	Power input	Cooling	W	3600	3600	4800	6100
		Heating	W	3300	3300	4700	5800
	Current input	Cooling	A	17.84	6.61	8.29	9.23
		Heating	A	17.01	5.73	8.20	9.11
	EER		W/W	2.78	2.72	2.50	2.30
C.O.P		W/W	3.33	3.72	2.98	2.67	
Refrigerant charged volume		kg	3.20	3.20	3.55	3.80	
Indoor unit	Airflow volume		m ³ /h	1800	1800	1800	2100
			CFM	1060	1060	1060	1237
	Sound pressure level		dB(A)	54/51/48	54/51/48	54/51/48	58/55/52
	Outline dimension	W×D×H	mm	1590×695×238	1590×695×238	1590×695×238	1590×695×238
Package dimension	W×D×H	mm	1714×830×330	1714×830×330	1714×830×330	1714×830×330	
Net weight/Gross weight		kg	48/58	48/58	48/58	48/58	
Sound pressure level		dB(A)	60	60	60	63	
Outdoor unit	Outline dimension	W×D×H	mm	1018×412×840	1018×412×840	1032×412×1250	1032×412×1250
	Package dimension	W×D×H	mm	1100×450×985	1100×450×985	1110×450×1385	1110×450×1385
	Net weight/Gross weight		kg	90/100	90/100	112/123	112/123
	Sound pressure level		dB(A)	60	60	60	63
Connection pipe	Diameter	Liquid pipe	inch	1/2	1/2	1/2	1/2
		Gas pipe	inch	3/4	3/4	3/4	3/4
	Max.piping length		m	50	50	50	50
	Max.level difference of in&outdoor units		m	30	30	30	30
Loading quantity	40'GP/40'HQ			55/58	55/58	44/49	44/49

*Low ambient cooling is optional.



Unitary Air Conditioner

U-Match Series Fixed Frequency R410A

▶ High Energy Efficiency Outdoor Unit — D+E Series Indoor Unit



24/28/30k Btu/h

36/42k Btu/h

48/60k Btu/h



- ◇ Universal outdoor unit can match with different type of indoor unit.
- ◇ All components optimized designed for R410A refrigerant.
- ◇ Long distance monitoring(optional).
- ◇ Testing software(optional).



Easy installation



Compact design



Quiet design



Long life and washable filter



Nominal Operating Condition

Item	Outdoor Condition		Indoor Condition	
	DB Temperature(°C)	WB Temperature(°C)	DB Temperature(°C)	WB Temperature(°C)
Cooling	35	24	27	19
Heating	7	6	20	15

Operation Range	Item	Outdoor Condition(DB °C)
	Cooling	21~43
	Heating	-7~24



Duct Type



28kBtu/h~60kBtu/h



Wireless
Controller
(standard)



Wired
Controller
(standard)

- Combining comfort of central air conditioners and easy and flexible installation of split air conditioner, duct type split unit features high efficiency, long-distance and high quality air supply, reliable operation, easy operation, overall functions, etc. It can be widely used in small-sized supermarket, shop, house, hotel, restaurant, office, meeting room, and villa etc.



- ◇ High EXP design for long duct
- ◇ Flexible installation, it could be installed upside down thanks to two-side drainage pan design.
- ◇ Compact design
- ◇ Simple wire connection design.
- ◇ Reserved interface for 11 steps adjustable fresh air control.
- ◇ Long lifespan and washable filter.
- ◇ Wired remote control fitted as standard.
- ◇ Wireless remote control.
- ◇ Drain pump with 1100mm lift head(for 28-60kBtu/h unit).

Model	Indoor unit		GFH28K3DAI ^{NEW}		GFH30K3DAI ^{NEW}		GFH36K3DAI ^{NEW}		GFH42K3DAI ^{NEW}							
	Outdoor unit		GUHN28NK3DO		GUHN30NK3DO		GUHN36NK3DO		GUHN42NK3DO							
Characteristics of units	Capacity	Cooling	W	7765	8800	10000	12000	Btu/h	26494	30000	34000	41000				
			W	7540	9090	11000	13000	Btu/h	25726	31000	37500	44300				
		Heating	W	7540	9090	11000	13000	Btu/h	25726	31000	37500	44300				
			W	7540	9090	11000	13000	Btu/h	25726	31000	37500	44300				
	Power supply	V-Ph-Hz		230V-1Ph-50Hz		230V-1Ph-50Hz		230V-1Ph-50Hz		230V-1Ph-50Hz						
	Power input	Cooling	W	2500	2750	3500	4100	Heating	W	2300	2600	3300	3700			
			W	2300	2600	3300	3700	Heating	A	11.00	12.00	14.50	19.00			
	Current input	Cooling	A	11.00	12.00	14.50	19.00	Heating	A	10.50	11.30	12.20	18.00			
			A	10.50	11.30	12.20	18.00	EER	W/W	3.11	3.20	2.86	2.96			
			C.O.P	W/W	3.28	3.50	2.86	2.96	Refrigerant charged volume	kg	2.60	2.60	3.33	4.00		
Indoor unit	Airflow volume		m ³ /h	1500	1450	1700	2500	CFM	883	853	1000	1471				
	Esp default		Pa	25	37	37	50	Esp range		Pa	0~140	0~140	0~140	0~140		
	Sound pressure level		dB(A)	57	57	56	69	Outline dimension		W×D×H	mm	735×670×385	735×670×385	735×670×385	860×670×385	
	Package dimension		W×D×H	mm	855×855×400	855×855×400	855×855×400	1045×855×400	Net weight/Gross weight		kg	38/43	38/43	38/43	50/58	
	Sound pressure level		dB(A)	68	68	70	69	Outline dimension		W×D×H	mm	1000×427×787	1000×427×787	1000×427×787	1000×427×1100	
	Package dimension		W×D×H	mm	1140×480×850	1140×480×850	1140×485×850	1140×480×1135	Net weight/Gross weight		kg	73/80	77/83	85/90	106/116	
	Outdoor unit	Diameter		Liquid pipe	inch	1/4	1/4	3/8	3/8	Max.piping length		m	50	50	50	50
		Gas pipe		inch	5/8	5/8	3/4	5/8	Max.level difference of in&outdoor units		m	30	30	30	30	
Max.piping length		m	50	50	50	50	Loading quantity		40'GP/40'HQ	66/76	66/76	66/76	64/74			
Max.level difference of in&outdoor units		m	30	30	30	30										



Model	Indoor unit		GFH30K3DAI	GFH36K3DAI	GFH42K3DAI	GFH48K3DAI	GFH60K3DAI	
	Outdoor unit		GUHN30NM3DO	GUHN36NM3DO	GUHN42NM3DO	GUHN48NM3DO	GUHN60NM3DO	
Characteristics of units	Capacity	Cooling	W	8800	10000	12000	14000	17000
			Btu/h	30000	34000	41000	48000	60000
		Heating	W	9090	11000	13000	14000	17000
			Btu/h	31000	37500	44300	48000	60000
	Power supply	V-Ph-Hz		400V-3Ph-50Hz	400V-3Ph-50Hz	400V-3Ph-50Hz	400V-3Ph-50Hz	400V-3Ph-50Hz
	Power input	Cooling	W	2900	3500	4100	4800	5700
		Heating	W	2800	3300	3700	4700	5700
	Current input	Cooling	A	5.30	5.00	6.00	7.43	9.33
		Heating	A	5.10	4.20	5.00	7.45	9.70
		EER	W/W	3.03	3.33	2.93	2.92	2.98
	C.O.P	W/W	3.25	3.33	3.51	2.98	2.98	
	Refrigerant charged volume	kg	2.55	2.80	4.00	4.50	5.20	
Indoor unit	Airflow volume		m ³ /h	1450	1700	2500	2500	2900
			CFM	853	1000	1471	1471	1707
	Esp default	Pa	37	37	50	50	50	
	Esp range	Pa	0~140	0~140	0~140	0~140	0~140	
	Sound pressure level	dB(A)	57	56	69	69	69	
	Outline dimension	W×D×H	mm	735×670×385	735×670×385	860×670×385	860×670×385	1045×670×385
	Package dimension	W×D×H	mm	855×855×400	855×855×400	1045×855×400	1045×855×400	1165×855×400
	Net weight/Gross weight	kg	38/43	38/43	50/58	50/58	55/63	
Outdoor unit	Sound pressure level	dB(A)	68	70	69	71	71	
	Outline dimension	W×D×H	mm	1000×427×787	1000×427×787	1000×427×1100	1000×427×1365	1000×427×1365
	Package dimension	W×D×H	mm	1140×480×850	1140×480×850	1140×480×1135	1140×480×1490	1140×480×1490
	Net weight/Gross weight	kg	81/87	85/90	106/116	131/146	140/155	
Connection pipe	Diameter	Liquid pipe	inch	1/4	3/8	3/8	3/8	3/8
		Gas pipe	inch	5/8	3/4	5/8	5/8	3/4
	Max.piping length		m	50	50	50	50	50
	Max.level difference of in&outdoor units		m	30	30	30	30	30
Loading quantity	40'GP/40'HQ		66/76	66/76	64/74	40/40	40/40	



Floor Ceiling Type



24/28/30/36kBtu/h



Wireless
Controller
(optional)



Wired
Controller
(standard)

It can be installed on the floor or under the ceiling. With the features of easy and flexible installation, wide range and long distance air supply, good performance, various control functions and slim body, it is especially applicable to the hotel, office, meeting room with low space room.



- ◇ New design with elegant and novel appearance.
- ◇ Slim design.
- ◇ Low noise.
- ◇ Plastic case.
- ◇ Wireless remote control fitted as standard.
- ◇ Different kinds of wired remote controller available (optional).
- ◇ Long lifespan and washable filter.
- ◇ Stand and ceiling convertible.



Model		Indoor unit		GTH24K3EI	GTH28K3EI	GTH30K3EI
		Outdoor unit		GUHN24NK3EO	GUHN28NK3EO	GUHN30NK3EO
Characteristics of units	Capacity	Cooling	W	6331	7181	7620
			Btu/h	21600	24500	26000
		Heating	W	6331	7181	7766.7
			Btu/h	21600	24500	26500
	Power supply	V-Ph-Hz		230V-1Ph-50Hz	230V-1Ph-50Hz	230V-1Ph-50Hz
	Power input	Cooling	W	2500	2500	2350
		Heating	W	2300	2300	2200
	Current input	Cooling	A	11.00	11.00	11.00
		Heating	A	10.50	10.50	10.00
	EER		W/W	3.25	3.25	3.25
C.O.P		W/W	3.25	3.25	3.25	
Refrigerant charged volume		kg	2.60	2.60	2.70	
Indoor unit	Airflow volume		m ³ /h	1600/1450/1300	1600/1450/1300	1600/1450/1300
			CFM	941/853/765	941/853/765	941/853/765
	Sound pressure level		dB(A)	62	62	62
	Outline dimension	W×D×H	mm	1420×700×245	1420×700×245	1420×700×245
	Package dimension	W×D×H	mm	1545×825×330	1545×825×330	1545×825×330
Net weight/Gross weight		kg	57/65	57/65	57/65	
Outdoor unit	Sound pressure level		dB(A)	68	68	68
	Outline dimension	W×D×H	mm	1000×427×787	1000×427×787	1000×427×787
	Package dimension	W×D×H	mm	1140×480×850	1140×480×850	1140×480×850
	Net weight/Gross weight		kg	73/80	73/80	74/80
	Connection pipe	Diameter	Liquid pipe	inch	1/4	1/4
Gas pipe			inch	5/8	5/8	5/8
Max.piping length		m	30	50	50	
Max.level difference of in&outdoor units		m	20	30	30	
Loading quantity	40'GP/40'HQ			96/144	96/144	96/144



Model		Indoor unit		GTH36K3EI	GTH30K3EI	GTH36K3EI
		Outdoor unit		GUHN36NK3EO	GUHN30NM3EO	GUHN36NM3EO
Characteristics of units	Capacity	Cooling	W	10000	26000	10000
			Btu/h	36000	7620	36000
		Heating	W	12000	26500	12000
			Btu/h	41000	7766.7	41000
	Power supply	V-Ph-Hz		230V-1Ph-50Hz	400V-3Ph-50Hz	400V-3Ph-50Hz
	Power input	Cooling	W	3030	2300	3030
		Heating	W	3200	2150	3200
	Current input	Cooling	A	14.50	4.50	5.00
		Heating	A	12.20	4.20	4.20
	EER		W/W	3.25	3.25	3.25
C.O.P		W/W	3.25	3.25	3.25	
Refrigerant charged volume		kg	3.30	2.70	3.50	
Indoor unit	Airflow volume		m ³ /h	2000	1600/1450/1300	2000
			CFM	1176	941/853/765	1176
	Sound pressure level		dB(A)	55	62	55
	Outline dimension	W×D×H	mm	1420×700×245	1420×700×245	1420×700×245
	Package dimension	W×D×H	mm	1545×825×330	1545×825×330	1545×825×330
Net weight/Gross weight		kg	57/65	57/65	57/65	
Outdoor unit	Sound pressure level		dB(A)	70	68	70
	Outline dimension	W×D×H	mm	1000×427×787	1000×427×787	1000×427×787
	Package dimension	W×D×H	mm	1140×485×850	1140×480×850	1140×485×850
	Net weight/Gross weight		kg	85/90	74/80	85/90
Connection pipe	Diameter	Liquid pipe	inch	3/8	1/4	3/8
		Gas pipe	inch	3/4	5/8	3/4
	Max.piping length		m	50	50	50
	Max.level difference of in&outdoor units		m	30	30	30
Loading quantity		40'GP/40'HQ		96/144	96/144	96/144





Unitary Air Conditioner



Duct Type

R410A



20.0kW
5.7USRT



25.0kW
7.1USRT



30.0kW
8.5USRT



40.0kW
11.4USRT

- ◇ Quiet operation thanks to unique-designed structure.
- ◇ High reliability thanks to the electronic expansion valve which can ensure the unit reliably operates even in bad conditions.
- ◇ Flexible application: The max. length and drop height between indoor and outdoor units can reach up to 30m and 25m. The ESP of indoor unit can be customized to meet various requirements.
- ◇ Higher operation efficiency thanks to multistep partial load operation, having little effect on the electric network



Easy installation



Quiet design



Long life and washable filter



Wired remote control



Weekly timer (optional)

Nominal Operating Condition

Item	Outdoor Condition		Indoor Condition	
	DB Temperature(°C)	WB Temperature(°C)	DB Temperature(°C)	WB Temperature(°C)
Cooling	35	24	27	19
Heating	7	6	20	15

Operation Range	Cooling	°C	-15~43
	Heating	°C	-7~24



Model		Cooling only		–	NEW FGR25/CNa-M	–	NEW FGR40/BNa-M	
		Heat pump		FGR20/BNa-M	FGR25/CNa-M	FGR30/BNa-M	FGR40/BNa-M	
Characteristics of units	Capacity	Cooling	kW	20.0	24.5	30.0	39.5	
			RT	5.7	7.0	8.5	11.4	
		Heating*	kW	22.0	27.5	33.0	42	
			RT	6.3	7.8	9.4	12.2	
	Outdoor quantity		unit	1				
	Power supply		V-Ph-Hz	380-415V-3Ph-50Hz				
	Power input	Cooling	kW	8.4	9.8	11.0	15.8	
			Heating*	kW	7.0	9.0	9.0	14
	Indoor unit	Airflow volume		m ³ /h	4000	4800	5500	7000
				CFM	2380	2825	3230	4120
Esp default		Pa	200	110	120	150		
Esp range		Pa	100~300	30~250	50~250	50~300		
Sound pressure level		dB(A)	56	54	57	58		
Outline dimension		W×D×H	mm	1463×799×389	1500×1000×500	1500×1000×500	1700×1100×650	
Package dimension		W×D×H	mm	1540×880×470	1840×1200×673	1840×1200×673	1890×1460×835	
Net weight		kg	86	150	156	215		
Gross weight		kg	109	200	206	265		
Outdoor unit		Sound pressure level		dB(A)	65	66	67	69
	Outline dimension		W×D×H	mm	1150×460×1350	1150×460×1600	990×880×1772	1290×880×1772
	Package dimension		W×D×H	mm	1317×502×1475	1317×502×1730	1162×980×1950	1370×980×1950
	Net weight		kg	158	185	216	285	
	Gross weight		kg	174	200	266	330	
	Connecting pipe diameter	Diameter	Liquid	inch	3/8	3/8	1/2	5/8
Gas			inch	3/4	1	9/8	9/8	
Max. piping length		m	50	50	50	50		
Max.height Diff.between IDU & ODU		m	30	30	30	30		
Loading quantity		40'GP/40'HQ		26/32	16/17	9/9	8/9	

*For heat pump unit only.





GREE 2011

GREE CENTRAL AIR CONDITIONER
making better air conditioners





VRF

1. GMV MULTI VRF SYSTEM

GMV OUTDOOR UNIT

GMV-R SERIES

GMV-Rm SERIES

GMV-Pdm SERIES

GMV-Pdhm SERIES

GMV INDOOR UNIT

2. OUTDOOR AIR PROCESSING UNIT

3. FREE MATCH

4. BRANCHING PIPE

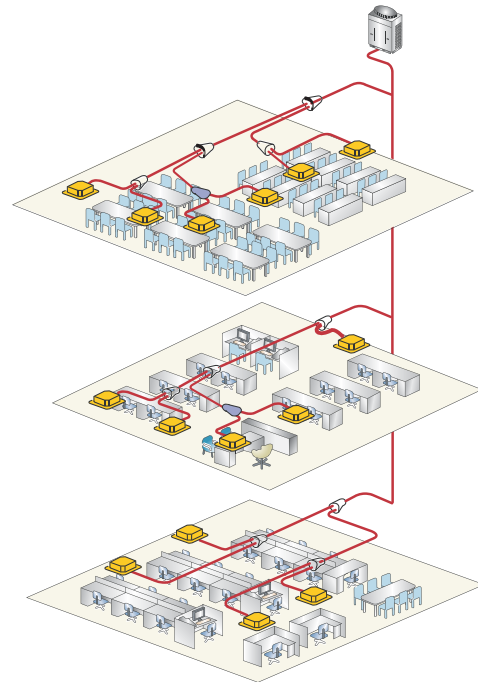
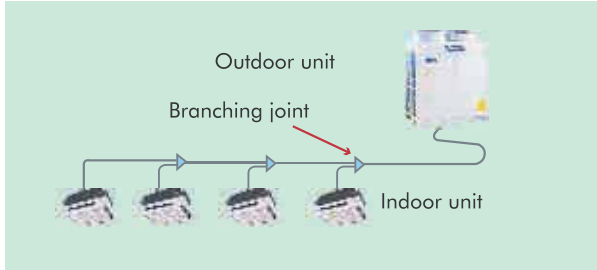




GMV Multi VRF System

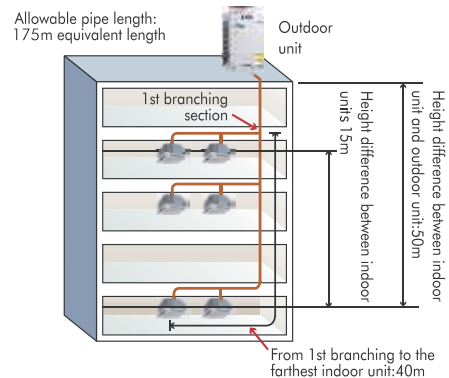
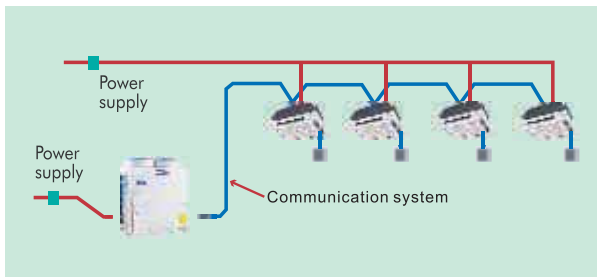
▶ Shortest Route Design by Free Branching

Combination of line and branching pipe connection makes the shortest design route possible, thereby saving time of installation and cost.



▶ Simple Wiring

Multiplex communication system makes it possible to connect multiple indoor units to one outdoor unit with a 2-core wire, and thus simplify the wiring operation.



▶ High Lift Design

175m Equivalent length and 50m Height difference are allowed by GREE GMV. Level difference between indoor units of 15m makes the location of the system more flexible.

▶ Energy Saving

Each room can be controlled individually, so that only those rooms requiring air conditioning are cooled or heated. In addition, thanks to the stepless regulation technology of Gree and EXV(Electronic Expansion Valve) applied in both indoor and outdoor units. The temperature of each room can be precisely controlled. High IPLV is achieved by employing cutting-edge technology, and contributing to smooth and economical operation. The highest IPLV value can reach 4.6w/w(15.69Btu/w-hr),and compared with the conventional chiller fan coil system, a large energy for saving can be realized.

▶ Self Diagnostics System

Comprehensive troubleshooting code was displayed when problems happened.

Self diagnostics examples

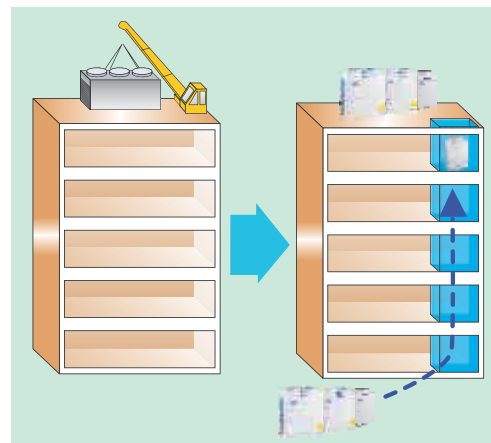
Error code	Nature of malfunction
E1	Compressor high pressure protection
E2	Indoor unit anti-freeze protection
E3	Compressor low pressure protection
E4	Compressor discharge temperature protection
E5	Compressor over loading protection
E6	Communication malfunction

► Compact Design

We offer a wide range of outdoor and indoor units to meet the needs of building size and interior design. Long refrigerant pipe is applicable to ensure better flexibility.

In most situations, no special cranes or conveyers is needed to lift the outdoor unit to the roof for it can be carried by elevator in the building thanks to compact design connection.

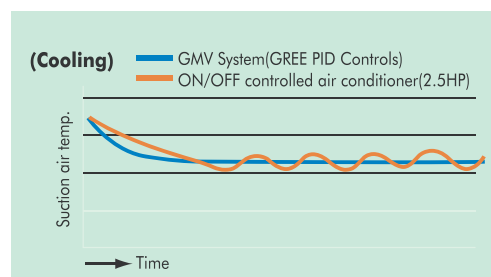
Compact connection refrigerant piping system ensures GMV with great advantage of saving ceiling space, especially in low profile buildings.



► Intelligent Control

GREE GMV intelligent controls and modulating valves could deliver the required capacity, according to the load variation from 10% to 100%. The intelligent controls and modulating valves limit or increase the cooling capacity dynamically, so humidity and temperature are kept in the comfort range.

Electronic expansion valves respond to the changes in load of indoor units and continually control the flow rate of refrigerant. In this way, we can get a nearly constant room temperature with the GMV system without common temperature fluctuation that occurs with a conventional ON/OFF control system. The precise PID controls maintain the room temperature within ± 0.5 °C of the set temperature.



► Wide Control Application

Intelligence Network System

- ◆ Central control available(provided with weekly timer function)
- ◆ Network monitoring system available
- ◆ Wireless remote controller or wired controller of indoor units
- ◆ Diagnosis software for service purpose
- ◆ Region wired controller

► Larger Capacity

Rm series and Pdm series are modular design that maximum 4 basic modules can be freely combined together to achieve max capacity of 180kW with advanced controlling, the outdoor modules have no differences that no need to appoint master or slave units.

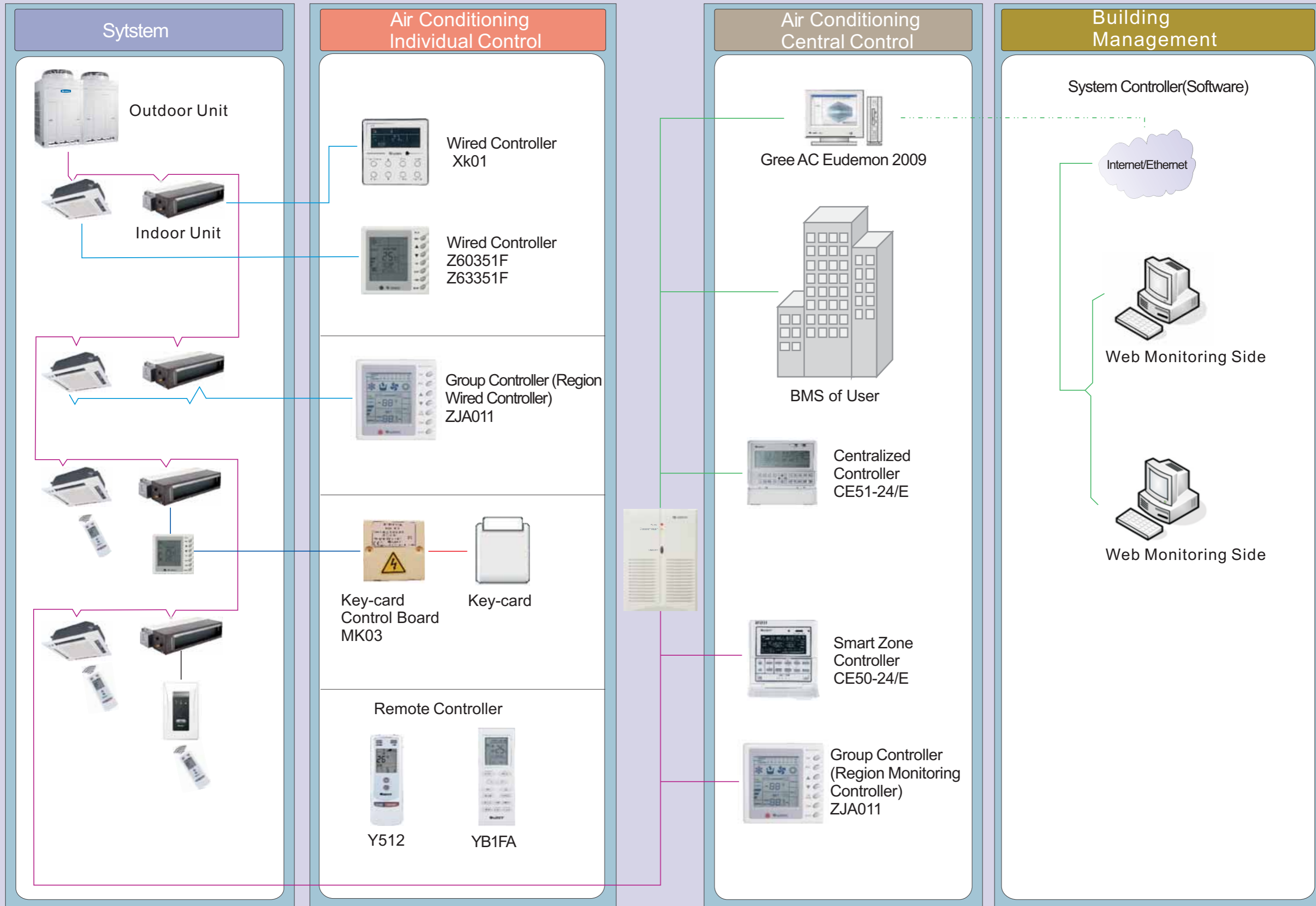
► DC Inverter Fan

Thanks to high-efficiency DC inverter fan motor, the outdoor units are high efficient and its noise is low; the ESP (external static pressure) is up to 50Pa, that ducting installation for hot air exhaust can be satisfied in the device floor.

(Note: Only specified models equips with DC inverter fan motor, others is AC inverter motor, for more details please contact with GREE sales).







GMV Outdoor Unit

GMV-R Series Digital Scroll R410A



26/30kW



45kW



56/60kW



90kW



Diagnosis displaying



Electromagnetic compatibility



Long life and washable filter



Compact design



Light weight



Quiet design



Easy installation



Nominal Operating Condition

Item	Outdoor Condition		Indoor Condition	
	DB Temperature(°C)	WB Temperature(°C)	DB Temperature(°C)	WB Temperature(°C)
Cooling	35	24	27	19
Heating	7	6	20	15

Operation Range	Cooling	°C	10~48
	Heating	°C	-20~27





Model	Heat pump		GMV-R260W2/Na-M	GMV-R300W2/Na-M	GMV-R450W3/Na-M
Capacity	Cooling	kW	26	30	45
	Heating	kW	28.5	33.5	48
Power supply		V-Ph-Hz	380-415V-3Ph-50Hz		
Power input	Cooling	kW	8.5	9.0	14.5
	Heating	kW	8.0	8.8	13.7
IPLV	Cooling	W/W	3.4		3.6
Refrigerant charge volume		kg	14	20	
Compressor quantity		unit	2	3	
Sound pressure level		dB(A)	58		60
Outline dimension	W×D×H	mm	990×880×1772		1290×880×1772
Package dimension	W×D×H	mm	1162×980×1950		1370×980×1950
Net weight		kg	280	300	450
Gross weight		kg	310	330	490
Connecting pipe diameter	Gas	inch	7/8		1-1/8
	Liquid	inch	3/8		1/2
Maximum drive IDU NO.		unit	16		16
Maximum total length(actual length)of fitting pipe		m	300		300



Model	Heat pump		GMV-R560W4/Na-M	GMV-R600W4/Na-M	GMV-R900W6/Na-M
Capacity	Cooling	kW	56	60	90
	Heating	kW	60	63	100
Power supply		V-Ph-Hz	380-415V-3Ph-50Hz		
Power input	Cooling	kW	18.5	19.2	30.1
	Heating	kW	18.0	18.2	27.5
IPLV	Cooling	W/W	3.6		
Refrigerant charge volume		kg	25	25	45
Compressor quantity		unit	4	4	6
Sound pressure level		dB(A)	60	60	62
Outline dimension	W×D×H	mm	1980×920×1760	1980×920×1760	2580×880×1772
Package dimension	W×D×H	mm	2152×980×1950	2152×980×1950	2660×980×1950
Net weight		kg	600	600	800
Gross weight		kg	640	640	850
Connecting pipe diameter	Gas	inch	1-1/8	1-1/8	1-3/8
	Liquid	inch	5/8	5/8	3/4
Maximum drive IDU NO.		unit	32	32	32
Maximum total length(actual length)of fitting pipe		m	300	500	500





GMV-Rm Series Modular Digital Scroll

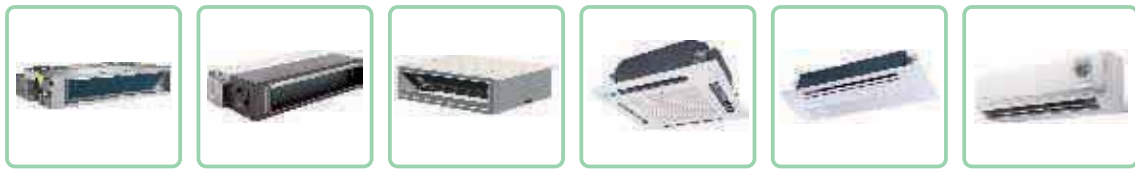
R410A



22.4/28.0kW



33.5/40.0/45.0/50.4kW



Intelligent defrosting



Compact design



Quiet design



Long life and washable filter



Light weight



Nominal Operating Condition

Item	Outdoor Condition		Indoor Condition	
	DB Temperature(°C)	WB Temperature(°C)	DB Temperature(°C)	WB Temperature(°C)
Cooling	35	24	27	19
Heating	7	6	20	15

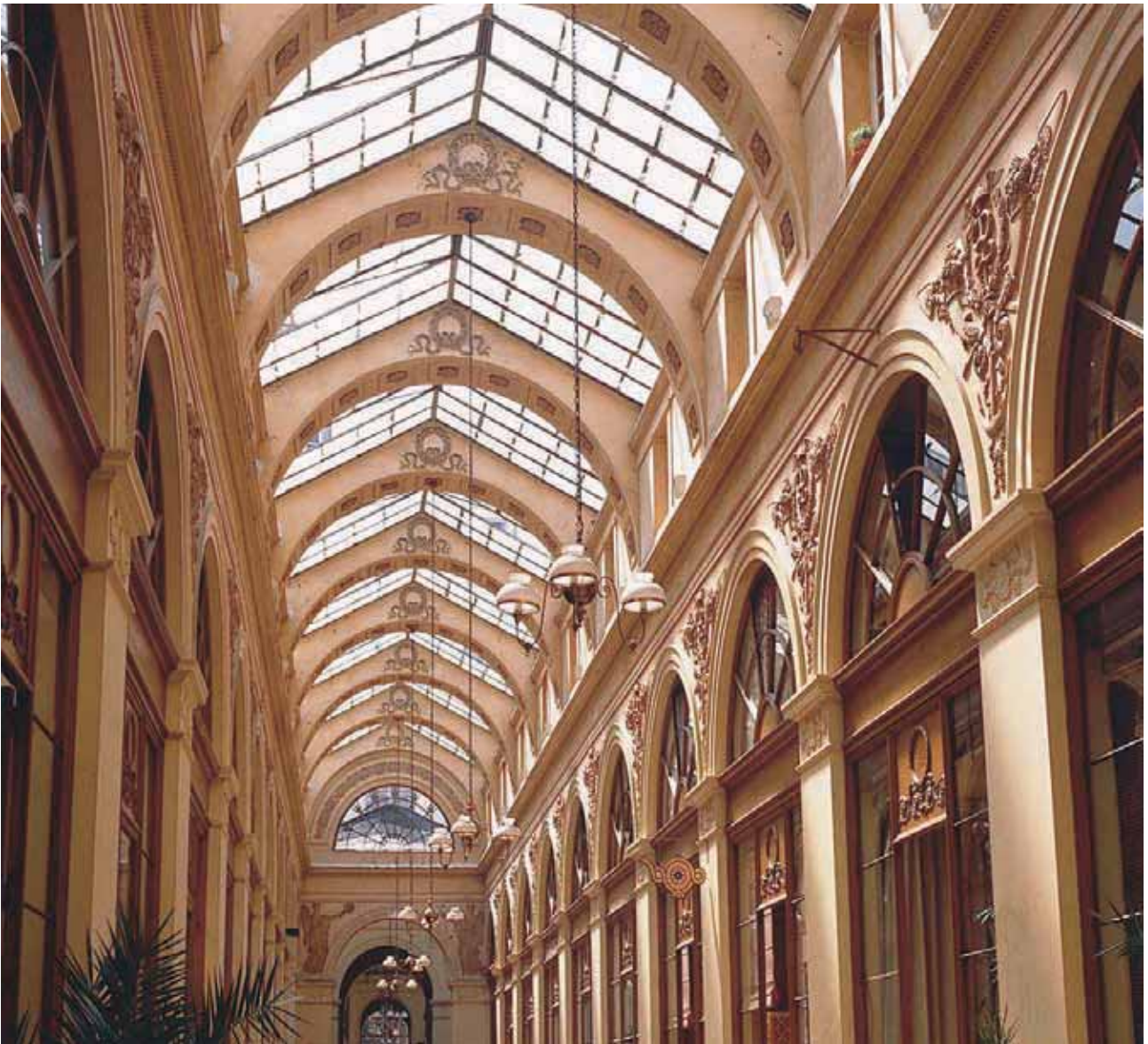
Operation Range	Cooling	°C	-5~48
	Heating	°C	-20~27



























Model	Heat pump		GMV-Rm224W/Na-M	GMV-Rm280W/Na-M	GMV-Rm335W/Na-M
Capacity	Cooling	kW	22	28	34
	Heating	kW	25	31	36
Power supply		V-Ph-Hz	380-415V-3Ph-50Hz		
Power input	Cooling	kW	8.3	10.7	12.6
	Heating	kW	7.8	9.1	10.2
IPLV	Cooling	W/W	3.40	3.45	3.55
Refrigerant charge volume		kg	14	16	17
Compressor quantity		unit	2	2	2
Sound pressure level		dB(A)	58	58	62
Outline dimension	W×D×H	mm	930×770×1670		1340×770×1670
Package dimension	W×D×H	mm	1030×850×1850		1420×850×1850
Net weight		kg	280	300	410
Gross weight		kg	310	330	450
Connecting pipe diameter	Gas	inch	7/8	7/8	9/8
	Liquid	inch	3/8	3/8	1/2
Maximum drive IDU NO.		unit	14	16	
Maximum total length(actual length) of fitting pipe		m	300		


































Model	Heat pump		GMV-Rm400W/Na-M	GMV-Rm450W/Na-M	GMV-Rm504W/Na-M
Capacity	Cooling	kW	40	45	50.4
	Heating	kW	44	50	55
Power supply		V-Ph-Hz	380-415V-3Ph-50Hz		
Power input	Cooling	kW	16.1	18	18.8
	Heating	kW	12.6	14.7	15.0
IPLV	Cooling	W/W	3.60	3.60	3.60
Refrigerant charge volume		kg	18	20	20
Compressor quantity		unit	3	3	3
Sound pressure level		dB(A)	62	62	62
Outline dimension	W×D×H	mm	1340×770×1670		
Package dimension	W×D×H	mm	1420×850×1850		
Net weight		kg	450	450	450
Gross weight		kg	490	490	490
Connecting pipe diameter	Gas	inch	9/8	9/8	9/8
	Liquid	inch	1/2	1/2	5/8
Maximum drive IDU NO.		unit	16		
Maximum total length(actual length)of fitting pipe		m	300		



Modular Outdoor Unit Lineup

	Model	GMV-Rm224W/Na-M	GMV-Rm280W/Na-M	GMV-Rm335W/Na-M	GMV-Rm400W/Na-M	GMV-Rm450W/Na-M	GMV-Rm504W/Na-M
	GMV-Rm224W/Na-M						
	GMV-Rm280W/Na-M						
	GMV-Rm335W/Na-M						
	GMV-Rm400W/Na-M						
	GMV-Rm450W/Na-M						
	GMV-Rm504W/Na-M						
	GMV-Rm560W2/Na-M						
	GMV-Rm615W2/Na-M						
	GMV-Rm670W2/Na-M						
	GMV-Rm730W2/Na-M						
	GMV-Rm800W2/Na-M						
	GMV-Rm850W2/Na-M						
	GMV-Rm900W2/Na-M						
	GMV-Rm954W2/Na-M						
	GMV-Rm1008W2/Na-M						



	Model	GMV-Rm224W/Na-M	GMV-Rm280W/Na-M	GMV-Rm335W/Na-M	GMV-Rm400W/Na-M	GMV-Rm450W/Na-M	GMV-Rm504W/Na-M
	GMV-Rm1070W3/Na-M						
	GMV-Rm1135W3/Na-M						
	GMV-Rm1200W3/Na-M						
	GMV-Rm1250W3/Na-M						
	GMV-Rm1300W3/Na-M						
	GMV-Rm1350W3/Na-M						
	GMV-Rm1405W3/Na-M						
	GMV-Rm1458W3/Na-M						
	GMV-Rm1512W3/Na-M						
	GMV-Rm 1600W 4/Na-M						
	GMV-Rm 1650W 4/Na-M						
	GMV-Rm 1700W 4/Na-M						
	GMV-Rm 1750W 4/Na-M						
	GMV-Rm 1800W 4/Na-M						
	GMV-Rm 1854W 4/Na-M						
	GMV-Rm 1908W 4/Na-M						
	GMV-Rm 1962W 4/Na-M						
	GMV-Rm 2016W 4/Na-M						



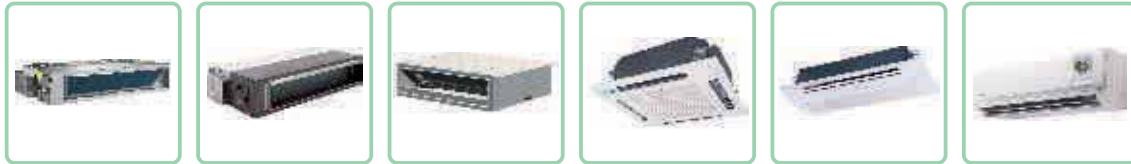


GMV-Pd Series DC Inverter

R410A



10/12/14/16kW



Intelligent defrosting



Compact design



Quiet design



Light weight



Nominal Operating Condition

Item	Outdoor Condition		Indoor Condition	
	DB Temperature(°C)	WB Temperature(°C)	DB Temperature(°C)	WB Temperature(°C)
Cooling	35	24	27	19
Heating	7	6	20	15

Operation Range	Cooling	°C	10~48
	Heating	°C	-20~27

Model	Heat pump		GMV-Pd100W/NaB-K	GMV-Pd120W/NaB-K	GMV-Pd140W/NaB-K	GMV-Pd160W/NaB-K
Capacity	Cooling	kW	10	12	14	16.0
	Heating	kW	11	14	15.4	17.6
Power supply		V-Ph-Hz	220-240V-1Ph-50Hz			
Power input	Cooling	kW	2.86	3.50	4.36	4.98
	Heating	kW	2.60	3.40	4.05	4.85
IPLV	Cooling	W/W	3.8	3.8	4.40	4.2
Refrigerant charge volume		kg	7.5	7.5	7.5	7.5
Compressor quantity		unit	1			
Sound pressure level		dB(A)	58	58	58	60
Outline dimension	W×D×H	mm	950×340×1250			
Package dimension	W×D×H	mm	1110×450×1280			
Net weight		kg	111	111	111	115
Gross weight		kg	122	122	122	122
Connecting pipe diameter	Gas	inch	5/8	5/8	5/8	3/4
	Liquid	inch	3/8			
Maximum drive IDU NO.		unit	6	7	8	9
Maximum total length(actual length)of fitting pipe		m	150			

GMV-Pdm Series Modular DC Inverter

R410A

VRF



22.4/28.0kW



33.5/40/45kW



Intelligent defrosting



Compact design



Quiet design



Light weight



For Heat pump Units Only

Nominal Operating Condition

Item	Outdoor Condition		Indoor Condition	
	DB Temperature(°C)	WB Temperature(°C)	DB Temperature(°C)	WB Temperature(°C)
Cooling	35	24	27	19
Heating	7	6	20	15







Operation Range	Cooling	°C	-5~48
	Heating	°C	-20~27



Model	Heat pump		GMV-Pdm224W/NaB-M	GMV-Pdm280W/NaB-M	GMV-Pdm335W/NaB-M	GMV-Pdm400W/NaB-M	GMV-Pdm450W/NaB-M
	Capacity	Cooling	kW	22.4	28.0	33.5	40.0
	Heating	kW	25.0	31.5	37.5	45.0	50.0
Power supply	V-Ph-Hz	380-415V-3Ph-50Hz					
Power input	Cooling	kW	5.52	7.52	9.23	12.45	14.32
	Heating	kW	5.82	7.70	9.38	11.2	13.9
IPLV	Cooling	W/W	4.15	4.15	4.15	3.95	4.15
Refrigerant charge volume	kg		12	12	15	16	17
Compressor quantity	unit		2	2	3	3	3
Sound pressure level	dB(A)		58	58	60	61	61
Outline dimension	W×D×H	mm	930×770×1670			1340×770×1670	
Package dimension	W×D×H	mm	1010×850×1850			1420×850×1850	
Net weight	kg		255	255	350	350	370
Gross weight	kg		275	275	380	380	400
Connecting pipe diameter	Gas	inch	7/8	7/8	9/8	9/8	9/8
	Liquid	inch	3/8	3/8	1/2	1/2	1/2
Maximum drive IDU NO.	unit		14	16	16	16	16
Maximum total length(actual length) of fitting pipe	m		300				

*If the outdoor unit of 33.5~45.0kW connects with more than 16 indoor units, additional pinboard is needed. Please check with the local GREE distributor to apply.

Modular Outdoor Unit Lineup

	Model	GMV-Pdm224W/NaB-M	GMV-Pdm280W/NaB-M	GMV-Pdm335W/NaB-M	GMV-Pdm400W/NaB-M	GMV-Pdm450W/NaB-M
	GMV-Pdm224W/NaB-M	⬡				
	GMV-Pdm280W/NaB-M		⬡			
	GMV-Pdm335W/NaB-M			⬡		
	GMV-Pdm400W/NaB-M				⬡	
	GMV-Pdm450W/NaB-M					⬡
	GMV-Pdm504W2/NaB-M	⬡	⬡			
	GMV-Pdm560W2/NaB-M		⬡⬡			
	GMV-Pdm615W2/NaB-M		⬡	⬡		
	GMV-Pdm670W2/NaB-M		⬡		⬡	
	GMV-Pdm730W2/NaB-M		⬡			⬡
	GMV-Pdm785W2/NaB-M				⬡⬡	
	GMV-Pdm850W2/NaB-M				⬡	⬡
	GMV-Pdm900W2/NaB-M					⬡⬡
	GMV-Pdm950W3/NaB-M		⬡⬡		⬡	
	GMV-Pdm1008W3/NaB-M		⬡⬡			⬡



	Model	GMV-Pdm224W/NaB-M	GMV-Pdm280W/NaB-M	GMV-Pdm335W/NaB-M	GMV-Pdm400W/NaB-M	GMV-Pdm450W/NaB-M
	GMV-Pdm1065W3/NaB-M		1		2	
	GMV-Pdm1130W3/NaB-M		1		1	1
	GMV-Pdm1180W3/NaB-M		1			2
	GMV-Pdm1235W3/NaB-M				2	1
	GMV-Pdm1300W3/NaB-M				1	2
	GMV-Pdm1350W3/NaB-M					3
	GMV-Pdm1405W4/NaB-M		2		1	1
	GMV-Pdm1456W4/NaB-M		2			2
	GMV-Pdm1512W4/NaB-M		1		2	1
	GMV-Pdm1570W4/NaB-M		1		1	2
	GMV-Pdm1650W4/NaB-M		1			3
	GMV-Pdm1700W4/NaB-M				2	2
	GMV-Pdm1750W4/NaB-M				1	3
	GMV-Pdm1800W4/NaB-M					4





GMV-Pdhm Series Modular DC Inverter With Heat Recovery

R410A

VRF



22.4/28.0kW



33.5/40/45kW



Intelligent defrosting



Compact design



Quiet design



Light weight



Nominal Operating Condition

Item	Outdoor Condition		Indoor Condition	
	DB Temperature(°C)	WB Temperature(°C)	DB Temperature(°C)	WB Temperature(°C)
Cooling	35	24	27	19
Heating	7	6	20	15

Operation Range	Item	Outdoor Condition (DB°C)	
	Cooling	°C	-10~48
	Heating	°C	-20~27
	Cooling and Heating	°C	-10~20



Model	Heat pump		GMV-Pdhm224W/Na-M	GMV-Pdhm280W/Na-M
Capacity	Cooling	kW	22.4	28.0
	Heating	kW	25.0	31.5
Power supply		V-Ph-Hz	380-415V-3Ph-50Hz	
Power input	Cooling	kW	5.5	7.5
	Heating	kW	5.8	7.7
C.O.P.	Cooling	W/W	4.07	3.73
ECOP	Cooling & Heating	W/W	6.80	6.80
Refrigerant charge volume		kg	12	12
Compressor quantity		unit	2	2
Sound pressure level		dB(A)	58	58
Outline dimension	W×D×H	mm	930×770×1670	
Package dimension	W×D×H	mm	1010×850×1850	
Net weight		kg	260	260
Gross weight		kg	284	284
Connecting pipe diameter	Gas(High pressure)	inch	3/4	3/4
	Gas(Low pressure)	inch	7/8	7/8
	Liquid pipe	inch	3/8	3/8
	Oil balance	inch	1/2	1/2
Maximum drive IDU NO.		unit	13	16
Max. equivalent connection pipe length		m	175	






Model	Heat pump		GMV-Pdhm335W/Na-M	GMV-Pdhm400W/Na-M	GMV-Pdhm450W/Na-M
Capacity	Cooling	kW	33.5	40.0	45.0
	Heating	kW	37.5	45.0	50.0
Power supply		V-Ph-Hz	380-415V-3Ph-50Hz		
Power input	Cooling	kW	9.23	12.45	14.32
	Heating	kW	9.38	11.2	13.9
C.O.P.	Cooling	W/W	3.63	3.21	3.14
ECOP	Cooling & Heating	W/W	6.5	6.5	6.5
Refrigerant charge volume		kg	14	16	16
Compressor quantity		unit	3		
Sound pressure level		dB(A)	61		
Outline dimension	W×D×H	mm	1340×770×1670		
Package dimension	W×D×H	mm	1420×850×1850		
Net weight		kg	372	402	402
Gross weight		kg	390	420	420
Connecting pipe diameter	Gas(High pressure)	inch	3/4	7/8	7/8
	Gas(Low pressure)	inch	9/8	9/8	9/8
	Liquid pipe	inch	1/2		
	Oil balance	inch	1/2		
Maximum drive IDU NO.		unit	19	23	26
Max. equivalent connection pipe length		m	175		









*If the outdoor unit of 33.5~45.0kW connects with more than 16 indoor units, additional pinboard is needed. Please check with the local GREE distributor to apply.



Modular Outdoor Unit Lineup

	Model	GMV-Pdhm224W/Na-M	GMV-Pdhm280W/Na-M	GMV-Pdhm335W/Na-M	GMV-Pdhm400W/Na-M	GMV-Pdhm450W/Na-M
	GMV-Pdhm224W/Na-M	⬡				
	GMV-Pdhm280W/Na-M		⬡			
	GMV-Pdhm335W/Na-M			⬡		
	GMV-Pdhm400W/Na-M				⬡	
	GMV-Pdhm450W/Na-M					⬡
	GMV-Pdhm504W2/Na-M	⬡	⬡			
	GMV-Pdhm560W2/Na-M		⬡⬡			
	GMV-Pdhm615W2/Na-M		⬡	⬡		
	GMV-Pdhm680W2/Na-M		⬡		⬡	
	GMV-Pdhm730W2/Na-M		⬡			⬡
	GMV-Pdhm800W2/Na-M				⬡⬡	
	GMV-Pdhm850W2/Na-M				⬡	⬡
	GMV-Pdhm900W2/Na-M					⬡⬡
	GMV-Pdhm960W3/Na-M		⬡⬡		⬡	
	GMV-Pdhm1010W3/Na-M		⬡⬡			⬡



	Model	GMV-Pdhm224W/Na-M	GMV-Pdhm280W/Na-M	GMV-Pdhm335W/Na-M	GMV-Pdhm400W/Na-M	GMV-Pdhm450W/Na-M
	GMV-Pdhm1070W3/Na-M					
	GMV-Pdhm1130W3/Na-M					
	GMV-Pdhm1180W3/Na-M					
	GMV-Pdhm1250W3/Na-M					
	GMV-Pdhm1300W3/Na-M					
	GMV-Pdhm1350W3/Na-M					
	GMV-Pdhm1410W4/Na-M					
	GMV-Pdhm1460W4/Na-M					
	GMV-Pdhm1515W4/Na-M					
	GMV-Pdhm1580W4/Na-M					
	GMV-Pdhm1630W4/Na-M					
	GMV-Pdhm1700W4/Na-M					
	GMV-Pdhm1750W4/Na-M					
	GMV-Pdhm1800W4/Na-M					



GMV Indoor Unit

Duct Type With High ESP (EXV Integrated)



2.2~14.0kW



22.4~28.0kW



Wireless Controller (Standard)



Wired Controller (Standard)

- ◇ 4-step fan motor.
- ◇ Flexible setup and even air supply.
- ◇ Easy installation and good looking.
- ◇ Fresh air exchange function.

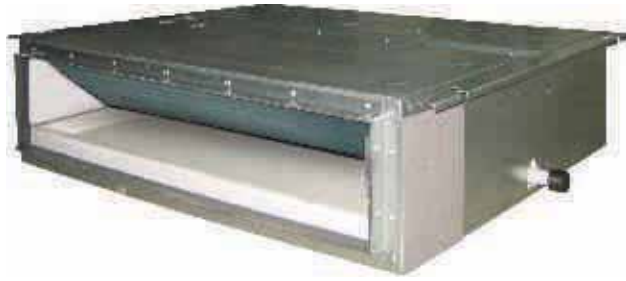


Model	With drain water pump		GMV-R22PS/NaB-K	GMV-R28PS/NaB-K	GMV-R36PS/NaB-K	GMV-R45PS/NaB-K	GMV-R56PS/NaB-K
	Without drain water pump		GMV-R22P/NaB-K	GMV-R28P/NaB-K	GMV-R36P/NaB-K	GMV-R45P/NaB-K	GMV-R56P/NaB-K
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.6
	Heating	kW	2.5	3.2	4.0	5.0	6.3
Power supply	V-Ph-Hz		220-240V-1Ph-50Hz				
Motor power input	W		75	80	80	140	240
Air flow volume	m ³ /h		450	570	570	700	1000
	CFM		265	335	335	412	589
ESP default	Pa		20	20	20	20	30
ESP max.	Pa		50	50	50	50	60
Sound pressure level	dB(A)		37	39	39	40	44
Outline dimension	W × D × H	mm	880 × 665 × 250	880 × 665 × 250	880 × 665 × 250	980 × 721 × 266	1155 × 736 × 300
Package dimension	W × D × H	mm	1020 × 745 × 305	1020 × 745 × 305	1020 × 745 × 305	1120 × 795 × 308	1245 × 785 × 360
Net weight (With drain water pump/Without drain water pump)	kg		28.5/27	30.5/28.5	30.5/28.5	36/34	51/49
	Gross weight (With drain water pump/Without drain water pump)		kg	33.5/31	35.5/33.5	35.5/33.5	39/37
Connecting pipe diameter	Gas	inch	3/8	3/8	1/2	1/2	5/8
	Liquid	inch	1/4	1/4	1/4	1/4	3/8



Model	With drain water pump		GMV-R71PS/NaB-K	GMV-R90PS/NaB-K	GMV-R112PS/NaB-K	GMV-R140PS/NaB-K	-	-	
	Without drain water pump		GMV-R71P/NaB-K	GMV-R90P/NaB-K	GMV-R112P/NaB-K	GMV-R140P/NaB-K	GMV-R224P/NaB-M	GMV-R280P/NaB-M	
Capacity	Cooling	kW	7.1	9.0	11.2	14.0	22.4	28.0	
	Heating	kW	8.0	10.0	12.5	15.0	25.0	31.0	
Power supply	V-Ph-Hz		220-240V-1Ph-50Hz				380V-3Ph-50Hz		
Motor power input	W		240	360	360	500	2000	2000	
Air flow volume	m ³ /h		1100	1700	1700	2000	4000	4800	
	CFM		647	1001	1001	1177	2354	2825	
Esp default	Pa		30	40	40	50	200	220	
Esp max.	Pa		60	80	80	100	-	-	
Sound pressure level	dB(A)		45	48	48	50	54	57	
Outline dimension	W × D × H	mm	1155 × 736 × 300	1425 × 736 × 300	1425 × 736 × 300	1425 × 736 × 300	1463 × 799 × 389	1700 × 920 × 450	
Package dimension	W × D × H	mm	1245 × 785 × 360	1514 × 785 × 360	1514 × 785 × 360	1514 × 785 × 360	1540 × 880 × 400	1700 × 920 × 450	
Net weight (With drain water pump/Without drain water pump)	kg		51/49	64/62	64/62	65.5/63.5	-/96	-/125	
	Gross weight (With drain water pump/Without drain water pump)		kg	58/56	73/71	73/71	75/73	-/106	-/135
Connecting pipe diameter	Gas	inch	5/8			3/4			9/8
	Liquid	inch	3/8			1/2			1/2

Slim Duct Type (EXV Integrated)



2.2~7.1kW



Wireless
Controller
(Standard)



Wired
Controller
(Standard)



- ◇ Compact size.
- ◇ Intelligent drainage device.
- ◇ Easy installation.
- ◇ 4-step fan motor equipped to standar ESP indoor unit.
- ◇ Flexible setup and even air distribution.
- ◇ Security design.



Model	Heat pump		GMV-R22PS/NaE-K	GMV-R28PS/NaE-K	GMV-R36PS/NaE-K
	Capacity	Cooling	kW	2.2	2.8
Heating		kW	2.5	3.2	4.0
Power supply	V-Ph-Hz		220-240V-1Ph-50Hz		
Motor power input	W		64		70
Air flow volume	m ³ /h		450		550
	CFM		265		324
ESP default	Pa		0		0
ESP max.	Pa		20		20
Sound pressure level	dB(A)		37		39
Outline dimension	W×D×H	mm	700×615×200		
Package dimension	W×D×H	mm	890×740×290		
Net weight	kg		21		22
Gross weight	kg		27		28
Connecting pipe diameter	Gas	inch	3/8		1/2
	Liquid	inch	1/4		

Model	Heat pump		GMV-R45PS/NaE-K	GMV-R56PS/NaE-K	GMV-R71PS/NaE-K
	Capacity	Cooling	kW	4.5	5.6
Heating		kW	5.0	6.3	8.0
Power supply	V-Ph-Hz		220-240V-1Ph-50Hz		
Motor power input	W		91		100
Air flow volume	m ³ /h		700		1000
	CFM		412		588
Esp default	Pa		0		0
Esp max.	Pa		20		20
Sound pressure level	dB(A)		40	41	42
Outline dimension	W×D×H	mm	900×615×200		1100×615×200
Package dimension	W×D×H	mm	1120×740×290		1320×740×290
Net weight	kg		26		30
Gross weight	kg		33		39
Connecting pipe diameter	Gas	inch	1/2	5/8	5/8
	Liquid	inch	1/4	3/8	3/8

Wall Mounted Type(EXV Separated)



2.2~5.6kW



7.1~8.0kW



Wireless
Controller
(Standard)



Wired
Controller
(Standard)

- ◇ Trinal air filter.
- ◇ Quiet operation.
- ◇ Aero appearance.
- ◇ Wide air supply angle.
- ◇ Remote controller with LCD.
- ◇ Easily dismantlable front panel.



Model	Heat pump		GMV-R22G/NaB-K	GMV-R28G/NaB-K	GMV-R36G/NaB-K	GMV-R45G/NaB-K
	Capacity	Cooling	kW	2.2	2.8	3.6
Heating		kW	2.5	3.2	4.0	5.0
Power supply	V-Ph-Hz		220-240V-1Ph-50Hz			
Motor power input	W		32			48
Air flow volume	m ³ /h		360			500
	CFM		212			294
Sound pressure level (H/L)	dB(A)		37/28		43/28	
Outline dimension	W×D×H	mm	770×190×250		830×189×285	
Package dimension	W×D×H	mm	955×330×272		1006×385×265	
Net weight	kg		8		11	
Gross weight	kg		14.3		15.8	
Connecting pipe diameter	Gas	inch	3/8		1/2	
	Liquid	inch			1/4	



Model	Heat pump		GMV-R50G/NaB-K	GMV-R56G/NaB-K	GMV-R71G/Na-K	GMV-R80G/Na-K
	Capacity	Cooling	kW	5.0	5.6	7.1
Heating		kW	5.8	6.3	8.0	9.0
Power supply	V-Ph-Hz		220-240V-1Ph-50Hz			
Motor power input	W		56	58	63	85
Air flow volume	m ³ /h		700	750	1200	
	CFM		412	441.5	706	
Sound pressure level(H/L)	dB(A)		45/40		49/42	
Outline dimension	W×D×H	mm	1020×228×310		1178×227×326	
Package dimension	W×D×H	mm	1178×325×390		1365×417×333	
Net weight	kg		15.5		17.5	
Gross weight	kg		20.5		23	
Connecting pipe diameter	Gas	inch	1/2	5/8	5/8	
	Liquid	inch	1/4	3/8	3/8	

Wall Mounted Type(EXV Integrated)



2.2~7.1kW



Wireless
Controller
(Standard)



Wired
Controller
(Standard)



- ◇ Trinal air filter.
- ◇ Quiet operation.
- ◇ Aero appearance.
- ◇ Wide air supply angle.
- ◇ Remote controller with LCD.
- ◇ Easily dismountable front panel.



Model	Heat pump		GMV-R22G/NaG-K	GMV-R28G/NaG-K	GMV-R36G/NaG-K	GMV-R45G/NaG-K
Capacity	Cooling	kW	2.2	2.8	3.6	4.5
	Heating	kW	2.5	3.2	4.0	5.0
Power supply	V-Ph-Hz		220-240V-1Ph-50Hz			
Motor power input	W		50	50	60	60
	m ³ /h		500	500	630	630
Air flow volume	CFM		294	294	371	371
	Sound pressure level (H/L)	dB(A)	38/34		44/38	44/38
Outline dimension			W×D×H	mm	843×180×275	843×180×275
Package dimension	W×D×H	mm	915×255×355	915×255×355	1010×285×380	1010×285×380
Net weight	kg		10.5	10.5	13	13
Gross weight	kg		12.5	12.5	16	16
Connecting pipe diameter	Gas	inch	3/8	3/8	1/2	1/2
	Liquid	inch	1/4	1/4	1/4	1/4

Model	Heat pump		GMV-R50G/NaG-K	GMV-R56G/NaG-K	GMV-R63G/NaG-K	GMV-R71G/NaG-K
Capacity	Cooling	kW	5.0	5.6	6.3	7.1
	Heating	kW	5.8	6.3	7.0	8.0
Power supply	V-Ph-Hz		220-240V-1Ph-50Hz			
Motor power input	W		60	70	70	70
	m ³ /h		630	800	800	800
Air flow volume	CFM		371	471	471	471
	Sound pressure level (H/L)	dB(A)	44/38		44/38	44/38
Outline dimension			W×D×H	mm	940×200×298	1008×221×319
Package dimension	W×D×H	mm	1010×285×380	1073×313×395	1073×313×395	1073×313×395
Net weight	kg		13	15	15	15
Gross weight	kg		16	20	20	20
Connecting pipe diameter	Gas	inch	1/2	5/8	5/8	5/8
	Liquid	inch	1/4	3/8	3/8	3/8

Floor Ceiling Type(EXV Integrated)



2.8~5.0kW



7.1~9.0kW



11.2~12.5kW



Wireless Controller (Standard)



Wired Controller (Standard)



- ◇ High efficiency filter.
- ◇ Goodlooking appearance.
- ◇ Space saving and easy maintenance due to flexible installation either under the ceiling or on the floor.
- ◇ Wide air supply range ensures even temperature.
- ◇ Smooth and even air supply and quiet operation thanks to high efficiency and low noise fan motor and qualified sound-proof duct design.



Model		Heat pump		GMV-R28Zd/NaB-K	GMV-R36Zd/NaB-K	GMV-R50Zd/NaB-K
Capacity	Cooling	kW		2.8	3.6	5.0
	Heating	kW		3.2	4.0	5.8
Power supply		V-Ph-Hz		220-240V-1Ph-50Hz		
Motor power input		W		55	55	110
Air flow volume	m ³ /h		650	650	950	
	CFM		324	383	559	
Sound pressure level		dB(A)		40	40	45
Outline dimension	W×D×H	mm		1220×700×225		
Package dimension	W×D×H	mm		1340×820×300		
Net weight		kg		40		
Gross weight		kg		50		
Connecting pipe diameter	Gas	inch		3/8	1/2	
	Liquid	inch		1/4	1/4	



Model		Heat pump		GMV-R71Zd/NaB-K	GMV-R90Zd/NaB-K	GMV-R112Zd/NaB-K	GMV-R125Zd/NaB-K
Capacity	Cooling	kW		7.1	9.0	11.2	12.5
	Heating	kW		8.0	10.0	12.5	13.5
Power supply		V-Ph-Hz		220-240V-1Ph-50Hz			
Motor power input		W		140	180	250	250
Air flow volume	m ³ /h		1400	1600	2000	2000	
	CFM		824	942	1177	1177	
Sound pressure level		dB(A)		49	51	55	55
Outline dimension	W×D×H	mm		1420×700×245		1700×700×245	
Package dimension	W×D×H	mm		1545×825×330		1825×825×330	
Net weight		kg		52	54	64	66
Gross weight		kg		61	63	72	74
Connecting pipe diameter	Gas	inch		5/8			
	Liquid	inch		3/8			

Floor Ceiling Type(EXV Separated)



2.8~5.0kW



7.1~12.5kW



Wireless Controller (Standard)



Wired Controller (Standard)



- ◇ High efficiency filter.
- ◇ Goodlooking appearance.
- ◇ Space saving and easy maintenance due to flexible installation either under the ceiling or on the floor.
- ◇ Wide air supply range ensures even temperature.
- ◇ Smooth and even air supply and quiet operation thanks to high efficiency and low noise fan motor and qualified sound-proof duct design.



Model	Heat pump		GMV-R28Zd/Na-K	GMV-R36Zd/Na-K	GMV-R50Zd/Na-K
Capacity	Cooling	kW	2.8	3.6	5.0
	Heating	kW	3.2	4.0	5.8
Power supply	V-Ph-Hz		220-240V-1Ph-50Hz		
Motor power input	W		19	19	75
Air flow volume	m ³ /h		550	600	700
	CFM		324	353	412
Sound pressure level	dB(A)		43	44	50
Outline dimension	W×D×H	mm	840×695×238		
Package dimension	W×D×H	mm	1035×805×295		
Net weight	kg		28		
Gross weight	kg		37		
Connecting pipe diameter	Gas	inch	3/8	1/2	
	Liquid	inch	1/4	1/4	



Model	Heat pump		GMV-R71Zd/Na-K	GMV-R90Zd/Na-K	GMV-R112Zd/Na-K	GMV-R125Zd/Na-K
Capacity	Cooling	kW	7.1	9.0	11.2	12.5
	Heating	kW	8.0	10.0	12.5	13.5
Power supply	V-Ph-Hz		220-240V-1Ph-50Hz			
Motor power input	W		185	280	340	340
Air flow volume	m ³ /h		1170	2100	2200	2300
	CFM		689	1236	1294	1353
Sound pressure level	dB(A)		48	51	54	55
Outline dimension	W×D×H	mm	1300×600×188	1590×695×238		
Package dimension	W×D×H	mm	1514×724×248	1814×830×330		
Net weight	kg		34	44		
Gross weight	kg		38	53		
Connecting pipe diameter	Gas	inch	5/8			
	Liquid	inch	3/8			

Four-way Cassette Type



2.2~4.5kW
EXV Separated



2.8~14.0kW
EXV Integrated



Wireless
Controller
(Standard)



Wired
Controller
(Standard)



- ◇ Compact structure.
- ◇ Powerful and even air supply.
- ◇ Intelligent drainage device.
- ◇ Three-dimensional spiral fan blades.
- ◇ Long life and washable filter.
- ◇ High efficiency air purifier.
- ◇ Harmonious appearance design.



Model	Heat pump		GMV-R22T/NaA-K	GMV-R28T/NaA-K	GMV-R36T/NaA-K	GMV-R45T/NaA-K
	Capacity	Cooling	kW	2.2	2.8	3.6
Heating		kW	2.5	3.2	4.0	5.0
Power supply		V-Ph-Hz	220-240V-1Ph-50Hz			
Motor power input		W	12			
Air flow volume		m ³ /h	600			
		CFM	353			
Sound pressure level		dB(A)	47			
Main body	Outline W×D×H	mm	570×570×230			
	Package W×D×H	mm	848×728×310			
	Net weight	kg	20			
	Gross weight	kg	27			
Panel	Outline W×D×H	mm	650×650×50			
	Package W×D×H	mm	730×670×102			
	Net weight	kg	5			
	Gross weight	kg	10			
Connecting pipe diameter	Gas	inch	3/8	3/8	1/2	1/2
	Liquid	inch	1/4			





Model	Heat pump		GMV-R28T/Na-K	GMV-R36T/Na-K	GMV-R45T/Na-K	GMV-R50T/Na-K
Capacity	Cooling	kW	2.8	3.6	4.5	5.0
	Heating	kW	3.2	4.0	5.0	5.8
Power supply		V-Ph-Hz	220-240V-1Ph-50Hz			
Motor power input		W	65	65	65	65
Air flow volume		m ³ /h	680	680	680	680
		CFM	400	400	400	400
Sound pressure level		dB(A)	37	37	37	37
Main body	Outline W×D×H	mm	840×840×190	840×840×190	840×840×190	840×840×190
	Package W×D×H	mm	960×960×257	960×960×257	960×960×257	960×960×257
	Net weight	kg	25	25	25	25
	Gross weight	kg	33	33	33	33
Panel	Outline W×D×H	mm	950×950×60	950×950×60	950×950×60	950×950×60
	Package W×D×H	mm	1040×1025×115	1040×1025×115	1040×1025×115	1040×1025×115
	Net weight	kg	6.5			
	Gross weight	kg	10.0			
Connecting pipe diameter	Gas	inch	3/8	1/2	1/2	1/2
	Liquid	inch	1/4	1/4	1/4	1/4



Model	Heat pump		GMV-R56T/Na-K	GMV-R63T/Na-K	GMV-R71T/Na-K	GMV-R80T/Na-K
Capacity	Cooling	kW	5.6	6.3	7.1	8.0
	Heating	kW	6.3	7.0	8.0	8.8
Power supply		V-Ph-Hz	220-240V-1Ph-50Hz			
Motor power input		W	83	83	83	83
Air flow volume		m ³ /h	1180	1180	1180	1180
		CFM	695	695	695	695
Sound pressure level		dB(A)	39	39	39	39
Main body	Outline W×D×H	mm	840×840×240	840×840×240	840×840×240	840×840×240
	Package W×D×H	mm	960×960×310	960×960×310	960×960×310	960×960×310
	Net weight	kg	30	30	30	30
	Gross weight	kg	38	38	38	38
Panel	Outline W×D×H	mm	950×950×60	950×950×60	950×950×60	950×950×60
	Package W×D×H	mm	1040×1025×115	1040×1025×115	1040×1025×115	1040×1025×115
	Net weight	kg	6.5			
	Gross weight	kg	10			
Connecting pipe diameter	Gas	inch	5/8	5/8	5/8	5/8
	Liquid	inch	3/8	3/8	3/8	3/8



Model	Heat pump		GMV-R90T/Na-K	GMV-R100T/Na-K	GMV-R112T/Na-K	GMV-R125T/Na-K	GMV-140T/Na-K
Capacity	Cooling	kW	9.0	10.0	11.2	12.5	14.0
	Heating	kW	10.0	11.0	12.5	13.5	14.5
Power supply		V-Ph-Hz	220-240V-1Ph-50Hz				
Motor power input		W	133	133	133	133	133
Air flow volume		m ³ /h	1860	1860	1860	1860	1860
		CFM	1095	1095	1095	1095	1095
Sound pressure level		dB(A)	40	40	40	40	40
Main body	Outline W×D×H	mm	840×840×320	840×840×320	840×840×320	840×840×320	840×840×320
	Package W×D×H	mm	960×960×394	960×960×394	960×960×394	960×960×394	960×960×394
	Net weight	kg	38	38	38	38	38
	Gross weight	kg	46	46	46	46	46
Panel	Outline W×D×H	mm	950×950×60				
	Package W×D×H	mm	1040×1025×115				
	Net weight	kg	6.5				
	Gross weight	kg	10				
Connecting pipe diameter	Gas	inch	5/8				
	Liquid	inch	3/8				

▶ One-way Cassette Type (EXV Separated)



2.2~3.6kW



Wireless
Controller
(Standard)



Wired
Controller
(Standard)



- ◇ Compact structure and easy installation.
- ◇ Space saving for installation.
- ◇ Intelligent drainage device.
- ◇ Harmonious appearance design.
- ◇ Detachable and washable grilles and long life filter.
- ◇ Ultra quiet operation.
- ◇ Even temperature distribution.



Model	Heat pump		GMV-R22Td/N a-K	GMV-R28Td/N a-K	GMV-R36Td/N a-K
Capacity	Cooling	kW	2.2	2.8	3.6
	Heating	kW	2.5	3.2	4.0
Power supply		V-Ph-Hz	220-240V-1Ph-50Hz		
Motor power input		W	42	42	42
Air flow volume		m ³ /h	450	500	500
		CFM	265	294	294
Sound pressure level		dB(A)	45	45	45
Main body	Outline W×D×H	mm	920×360×185	920×360×185	920×360×185
	Package W×D×H	mm	1290×465×270	1290×465×270	1290×465×270
	Net weight	kg	16	16	16
	Gross weight	kg	25	25	25
Panel	Outline W×D×H	mm	1180×430×30		
	Package W×D×H	mm	1260×505×110		
	Net weight	kg	3	3	3
	Gross weight	kg	5	5	5
Connecting pipe diameter	Gas	inch	3/8	3/8	1/2
	Liquid	inch	1/4	1/4	1/4



Console(EXV Integrated)



2.8~5.0kW



Wireless
Controller
(Standard)



Wired
Controller
(Standard)



- ◇ New design with elegant and novel appearance.
- ◇ Temp. display.
- ◇ High efficiency filter
- ◇ Up & down swing.
- ◇ Anti-cold air.
- ◇ Wired control.
- ◇ Memory.
- ◇ Error Display.
- ◇ Turbo.



Model	Heatpump		GMV-R28C/Na-K ^{NEW}	GMV-R36C/Na-K ^{NEW}	GMV-R50C/Na-K ^{NEW}
Capacity	Cooling	kW	2.8	3.6	5.0
	Heating	kW	3.2	4.0	5.5
Power supply	V-Ph-Hz		220-240V-1Ph-50Hz		
Motor power input	W		30	30	30
Air flow volume	m ³ /h		650	750	840
	CFM		383	441	494
Sound pressure level	dB(A)(SH/H/M/L)		40/38/33/26	42/40/37/32	48/46/41/35
Outline dimension	W×D×H	mm	700×600×215	700×600×215	700×600×215
Package dimension	W×D×H	mm	785×680×280	785×680×280	785×680×280
Net weight	kg		16	16	16
Gross weight	kg		19	19	19
Connecting pipe diameter	Gas	inch	3/8	3/8	1/2
	Liquid	inch	1/4	1/4	1/4





Floor Standing Type (EXV Integrated)

- ◇ Auto diagnosis.
- ◇ Fashionable and novel appearance.
- ◇ Quiet operation.
- ◇ Intelligent drainage device.
- ◇ Long life filter.
- ◇ Wider air supply and swing angle.
- ◇ Dynamic color display.



Wireless Controller (Standard)



7.1~14.0kW

Model	Heat pump		GMV-R71L/Na-K ^{NEW}	GMV-R100L/Na-K ^{NEW}	GMV-R140L/Na-K ^{NEW}
	Capacity	Cooling	kW	7.1	10.0
Heating		kW	8.0	11.0	15.0
Power supply		V-Ph-Hz	220-240V-1Ph-50Hz		
Motor power input		W	150	175	190
Air flow volume		m ³ /h	1100	1700	1800
		CFM	647	1001	1059
Sound pressure level		dB(A)	48	51	52
Outline dimension	W×D×H	mm	1756×502×316	1896×556×381	1896×556×381
Package dimension	W×D×H	mm	1940×630×435	2080×735×530	2080×735×530
Net weight		kg	39	53	57
Gross weight		kg	60	73	77
Connecting pipe diameter	Gas	inch	5/8	5/8	5/8
	Liquid	inch	3/8	3/8	3/8



Heat Recovery Series-Duct Type With Normal ESP (EXV Separated)



2.2~11.2kW



22.4/28.0kW



Wireless Controller (Standard)



Wired Controller (Standard)



- ◇ L4-step fan motor.
- ◇ Flexible setup and even air supply.
- ◇ Easy installation and good looking
- ◇ Fresh air exchange function.



Model	Heat pump		GMV-Rh22P/Na-K	GMV-Rh25P/Na-K	GMV-Rh28P/Na-K	GMV-Rh36P/Na-K	GMV-Rh45P/Na-K	GMV-Rh50P/Na-K	GMV-Rh56P/Na-K
Capacity	Cooling	kW	2.2	2.5	2.8	3.6	4.5	5.0	5.6
	Heating	kW	2.5	3	3.2	4.0	5.0	5.8	6.3
Power supply		V-Ph-Hz	220-240V-1Ph-50Hz						
Motor power input		W	54		55		91	154	157
Air flow volume	m ³ /h		450		570		700	840	1000
	CFM		265		335		412	494	588
Esp default		Pa	0		0		0	0	0
Esp max.		Pa	10		10		20	25	25
Sound pressure level		dB(A)	37		39		40	41	41
Outline dimension	W×D×H	mm	875×680×220				980×736×266		1159×736×260
Package dimension	W×D×H	mm	1165×718×275				1220×776×320		1398×785×320
Net weight		kg	27				36		37
Gross weight		kg	31				39		41
Connecting pipe diameter	Gas	inch	3/8			1/2			5/8
	Liquid	inch	1/4						3/8



Model	Heat pump		GMV-Rh63P/Na-K	GMV-Rh71P/Na-K	GMV-Rh80P/Na-K	GMV-Rh90P/Na-K	GMV-Rh100P/Na-K	GMV-Rh112P/Na-K	GMV-Rh125P/Na-K
Capacity	Cooling	kW	6.3	7.1	8.0	9.0	10	11.2	12.5
	Heating	kW	7.0	8.0	8.8	10.0	11	12.5	13.5
Power supply		V-Ph-Hz	220-240V-1Ph-50Hz						
Motor power input		W	157	157	157	270	270	270	270
Air flow volume	m ³ /h		1000	1100	1100	1700	1700	1700	1700
	CFM		588	647	647	1000	1000	1000	1000
Esp default		Pa	0	0	0	0	0	0	0
Esp max.		Pa	25	25	25	30	30	30	30
Sound pressure level		dB(A)	41	42	42	44	44	44	44
Outline dimension	W×D×H	mm	1159×736×260	1159×736×260	1159×736×260	1385×736×260	1385×736×260	1385×736×260	1385×736×260
Package dimension	W×D×H	mm	1398×785×320	1398×785×320	1398×785×320	1682×796×310	1682×796×310	1682×796×310	1682×796×310
Net weight		kg	37	37	37	49	49	49	49
Gross weight		kg	41	41	41	60	60	60	60
Connecting pipe diameter	Gas	inch	5/8	5/8	5/8	5/8	5/8	5/8	5/8
	Liquid	inch	3/8	3/8	3/8	3/8	3/8	3/8	3/8



Model	With drain water pump		GMV-Rh22PS/NaB-K	GMV-Rh28PS/NaB-K	GMV-Rh36PS/NaB-K	GMV-Rh45PS/NaB-K
	Without drain water pump		GMV-Rh22P/NaB-K	GMV-Rh28P/NaB-K	GMV-Rh36P/NaB-K	GMV-Rh45P/NaB-K
Capacity	Cooling	kW	2.2	2.8	3.6	4.5
	Heating	kW	2.5	3.2	4.0	5.0
Power supply		V-Ph-Hz	220-240V-1Ph-50Hz			
Motor power input		W	75	80	80	140
Air flow volume		m ³ /h	450	570	570	700
		CFM	265	335	335	412
Esp default		Pa	20	20	20	20
Esp max.		Pa	50	50	50	50
Sound pressure level		dB(A)	37	39	39	40
Outline dimension	W×D×H	mm	880×665×250	880×665×250	880×665×250	980×721×266
Package dimension	W×D×H	mm	1145×745×305	1145×745×305	1145×745×305	1290×795×320
Net weight (With drain water pump/Without drain water pump)		kg	26/25	28/27	28/27	34/33
Gross weight (With drain water pump/Without drain water pump)		kg	37/36	39/38	39/38	46/45
Connecting pipe diameter	Gas	inch	3/8	3/8	1/2	1/2
	Liquid	inch	1/4	1/4	1/4	1/4



Model	With drain water pump		GMV-Rh56PS/NaB-K	GMV-Rh71PS/NaB-K	GMV-Rh90PS/NaB-K	GMV-Rh112PS/NaB-K	GMV-Rh140PS/NaB-K
	Without drain water pump		GMV-Rh56P/NaB-K	GMV-Rh71P/NaB-K	GMV-Rh90P/NaB-K	GMV-Rh112P/NaB-K	GMV-Rh140P/NaB-K
Capacity	Cooling	kW	5.6	7.1	9.0	11.2	14.0
	Heating	kW	6.3	8.0	10.0	12.5	15.0
Power supply		V-Ph-Hz	220-240V-1Ph-50Hz				
Motor power input		W	240	240	360	360	500
Air flow volume		m ³ /h	1000	1100	1700	1700	2000
		CFM	589	647	1001	1001	1177
Esp default		Pa	30	30	40	40	50
Esp max.		Pa	60	60	80	80	100
Sound pressure level		dB(A)	44	45	48	48	50
Outline dimension	W×D×H	mm	1155×736×300	1155×736×300	1425×736×300	1425×736×300	1425×736×300
Package dimension	W×D×H	mm	1415×785×360	1415×785×360	1684×785×360	1684×785×360	1684×785×360
Net weight (With drain water pump/Without drain water pump)		kg	49/48	49/48	60/59	60/59	63/62
Gross weight (With drain water pump/Without drain water pump)		kg	63/62	63/62	76/75	76/75	78/77
Connecting pipe diameter	Gas	inch	5/8	5/8	5/8	5/8	5/8
	Liquid	inch	3/8	3/8	3/8	3/8	3/8



Model	Heat pump		GMV-Rh224P/NaB-M	GMV-Rh280P/NaB-M
Capacity	Cooling	kW	22.4	28.0
	Heating	kW	25.0	31.0
Power supply		V-Ph-Hz	380-415V-3Ph-50Hz	
Motor power input		W	1600	1600
Air flow volume		m ³ /h	4000	4800
		CFM	2354	2825
Esp default		Pa	200	220
Esp max.		Pa	-	-
Sound pressure level		dB(A)	56	57
Outline dimension	W×D×H	mm	1463×799×470	1628×869×454
Package dimension	W×D×H	mm	1695×880×470	1900×1025×580
Net weight		kg	88	113
Gross weight		kg	107	157
Connecting pipe diameter	Gas	inch	7/8	7/8
	Liquid	inch	3/8	

Heat Recovery Series-Wall Mounted type (EXV Separated)



2.2~5.6kW



7.1~8.0kW



Wireless
Controller
(Standard)



Wired
Controller
(Standard)

- ◇ Trinal air filter.
- ◇ Quiet operation.
- ◇ Aero appearance.
- ◇ Wide air supply angle.
- ◇ Remote controller with LCD.
- ◇ Easily dismountable front panel.



Model		Heat pump		GMV-Rh22G/Na-K	GMV-Rh28G/Na-K	GMV-Rh36G/Na-K	GMV-Rh45G/Na-K
Capacity	Cooling	kW		2.2	2.8	3.6	4.5
	Heating	kW		2.5	3.2	4.0	5.0
Power supply		V-Ph-Hz	220-240V-1Ph-50Hz				
Motor power input		W		32		48	
Air flow volume		m ³ /h		360		500	
		CFM		212		294	
Sound pressure level		dB(A)		37		43	
Outline dimension	W×D×H	mm		770×190×250		830×189×285	
Package dimension	W×D×H	mm		860×272×478		905×265×533	
Net weight		kg		8.5		11.0	
Gross weight		kg		15.6		18.5	
Connecting pipe diameter	Gas	inch		3/8		1/2	
	Liquid	inch		1/4		1/4	



Model		Heat pump		GMV-Rh50G/Na-K	GMV-Rh56G/Na-K	GMV-Rh71G/Na-K	GMV-Rh80G/Na-K
Capacity	Cooling	kW		5.0	5.6	7.1	8.0
	Heating	kW		5.8	6.3	8.0	9.0
Power supply		V-Ph-Hz	220-240V-1Ph-50Hz				
Motor power input		W		56	58	63	85
Air flow volume		m ³ /h		700	750	1200	
		CFM		412	442	707	
Sound pressure level		dB(A)		45		49	
Outline dimension	W×D×H	mm		1020×228×310		1178×227×326	
Package dimension	W×D×H	mm		1080×390×420		1415×333×475	
Net weight		kg		14.7		18.2	
Gross weight		kg		23.6		27.3	
Connecting pipe diameter	Gas	inch		1/2		5/8	
	Liquid	inch		1/4		3/8	

Heat Recovery Series-Four-way Cassette Type (EXV Separated)



2.8~14.0kW



Wireless
Controller
(Standard)



Wired
Controller
(Standard)



- ◇ Compact structure.
- ◇ Powerful and even air supply.
- ◇ Intelligent drainage device.
- ◇ Three-dimensional spiral fan blades.
- ◇ Long life and washable filter.
- ◇ High efficiency air purifier.
- ◇ Harmonious appearance design.



Model	Heat pump		GMV-Rh28T/Na-K	GMV-Rh36T/Na-K	GMV-Rh45T/Na-K	GMV-Rh50T/Na-K	GMV-Rh56T/Na-K	GMV-Rh63T/Na-K
Capacity	Cooling	kW	2.8	3.6	4.5	5.0	5.6	6.3
	Heating	kW	3.2	4.0	5.0	5.8	6.3	7.0
Power supply		V-Ph-Hz	220-240V-1Ph-50Hz					
Motor power input		W	60		65		83	
Air flow volume		m ³ /h	680				1180	
		CFM	400				695	
Sound pressure level		dB(A)	37				39	
Main body	Outline W×D×H	mm	840×840×190				840×840×240	
	Package W×D×H	mm	1100×960×257				1100×960×310	
	Net weight	kg	25				30	
	Gross weight	kg	33				38	
Panel	Outline W×D×H	mm	950×950×60				950×950×60	
	Package W×D×H	mm	1025×1040×115				1025×1040×115	
	Net Weight(Main body/Panel)	kg	25/6.5				30/6.5	
	Gross Weight(Main body/Panel)	kg	33/10				38/10	
Connecting pipe diameter	Gas	inch	3/8	1/2		5/8		
	Liquid	inch	1/4	1/4		3/8		

Model	Heat pump		GMV-Rh71T/Na-K	GMV-Rh80T/Na-K	GMV-Rh90T/Na-K	GMV-Rh112T/Na-K	GMV-Rh125T/Na-K
Capacity	Cooling	kW	7.1	8.0	9.0	11.2	12.5
	Heating	kW	8.0	8.8	10.0	12.5	13.5
Power supply		V-Ph-Hz	220-240V-1Ph-50Hz				
Motor power input		W	83		133		
Air flow volume		m ³ /h	1180		1860		
		CFM	695		1095		
Sound pressure level		dB(A)	39		40		
Main body	Outline W×D×H	mm	840×840×240		840×840×320		
	Package W×D×H	mm	1100×960×310		1100×960×394		
	Net weight	kg	30		38		
	Gross weight	kg	38		46		
Panel	Outline W×D×H	mm	950×950×60		950×950×60		
	Package W×D×H	mm	1025×1040×115		1025×1040×115		
	Net Weight(Main body/Panel)	kg	30/6.5		38/6.5		
	Gross Weight(Main body/Panel)	kg	38/10		46/10		
Connecting pipe diameter	Gas	inch	5/8		5/8		
	Liquid	inch	3/8		3/8		

Heat Recovery Series-Floor Ceiling Type (EXV Separated)



2.8~5.0kW



7.1~12.5kW



Wireless Controller
(Standard)



Wired Controller
(Standard)



- ◇ High efficiency filter.
- ◇ Nice appearance
- ◇ Space saving and easy maintenance due to flexible installation either under the ceiling or on the floor.
- ◇ Perfectly matching with room decoration.
- ◇ Wide air supply range ensures even temperature.
- ◇ Vertical swing function which makes the air distribution evener so that the person feels more comfortable.
- ◇ Smooth and even air supply and quiet operation thanks to high efficiency and low noise fan motor and qualified sound-proof duct design.



Model	Heat pump		GMV-Rh28ZdNa-K	GMV-Rh36Zd/Na-K	GMV-Rh50Zd/Na-K
	Capacity	Cooling	kW	2.8	3.6
Heating		kW	3.2	4.0	5.8
Power supply		V-Ph-Hz	220-240V-1Ph-50Hz		
Motor power input		W	19	19	75
Air flow volume		m ³ /h	550	600	700
		CFM	324	353	412
Sound pressure level		dB(A)	43	44	50
Outline dimension	W×D×H	mm	840×238×695		
Package dimension	W×D×H	mm	1035×295×805		
Net weight		kg	26	27	32
Gross weight		kg	37	39	43
Connecting pipe diameter	Gas	inch	3/8	1/2	1/2
	Liquid	inch		1/4	



Model	Heat pump		GMV-Rh71Zd/Na-K	GMV-Rh90Zd/Na-K	GMV-Rh112Zd/Na-K	GMV-Rh125Zd/Na-K
	Capacity	Cooling	kW	7.1	9.0	11.2
Heating		kW	8.0	10.0	12.5	13.5
Power supply		V-Ph-Hz	220-240V-1Ph-50Hz			
Motor power input		W	185	280	340	340
Air flow volume		m ³ /h	1170	2100	2200	2300
		CFM	689	1237	1296	1354
Sound pressure level		dB(A)	48	51	54	55
Outline dimension	W×D×H	mm	1300×188×600	1590×238×695		
Package dimension	W×D×H	mm	1514×248×724	1714×330×830		
Net weight		kg	32	48		
Gross weight		kg	43	63		
Connecting pipe diameter	Gas	inch		5/8		
	Liquid	inch		3/8		



Outdoor Air Processing Unit



DC Inverter Outdoor Air Processing Unit (EXV Integrated)



▶ Adopting DC inverter stepless regulation; more environmentally friendly and energy saving; reducing cost and installation space of the outdoor unit; for combined application, the capacity of the air handling unit shall be 30% less than that of the outdoor unit; suitable for application integrated with DC inverter modular units;

- ◇ Adopting DC inverter stepless regulation; stepless regulation of fan speed; stable and reliable operation of the motor
- ◇ Capable of connecting to the same system with general multi VRF indoor units
- ◇ Low outlet temperature; capable of bearing partial loads of the indoor units
- ◇ Low fresh air volume
- ◇ Low noise



Nominal Operating Condition				
Item	Outdoor Condition		Indoor Condition	
	DB Temperature(°C)	WB Temperature(°C)	DB Temperature(°C)	WB Temperature(°C)
Cooling	35	28	35	28
Heating	7	6	7	6

Operation Range	Item	Outdoor Condition(DB °C)
	Cooling	20/15~43/35
	Heating	-5/-8~14/11

Outdoor Unit



Model			GMV-Pdm224W/NaX-M	GMV-Pdm280W/NaX-M	GMV-Pdm450W/NaX-M
Power supply		V-N-Hz	380~415V-3N-50Hz	380~415V-3N-50Hz	380~415V-3N-50Hz
Power input	Cooling	kW	10.0	10.5	14.5
	Heating	kW	8.5	9.0	13.5
Refrigerant charge volume		kg	15.5	15.5	17.0
Sound pressure level		dB(A)	58	58	61
Outline dimension	W×D×H	mm	930×770×1670	930×770×1670	1340×770×1670
Package dimension	W×D×H	mm	1010×850×1850	1010×850×1850	1420×850×1850
Net weight		kg	255	255	370
Gross weight		kg	275	275	400
Connecting pipe diameter	Gas(High pressure)	inch	7/8	7/8	9/8
	Gas(Low pressure)	inch	3/8	3/8	1/2

Indoor Unit



Model			GMV-R140P/Na(X1.2)-K	GMV-R224P/Na(X2.0)-M	GMV-R280P/Na(X2.5)-M	GMV-R280P/Na(X3.0)-M
Fresh air volume		m ³ /h	1200	2000	2500	3000
Power supply		V-N-Hz	220~ 50Hz	380V 3N~ 50Hz	380V 3N~ 50Hz	380V 3N~ 50Hz
Capacity	Cooling	kW	14.0	22.4	28.0	28.0
	Heating	kW	10.0	16.0	20.0	20.0
Fan motor power input		kW	0.5	1.1	1.1	1.1
ODU static pressure	Standard	Pa	150	200	200	200
	Range	Pa	150	50~200	50~200	50~200
Sound pressure level		dB(A)	42	47	48	51
Outline dimension	W×D×H	mm	1463×756×300	1500×1000×500	1500×1000×500	1500×1000×500
Package dimension	W×D×H	mm	1514×785×360	1840×1200×673	1840×1200×673	1840×1200×673
Net weight		kg	63.5	130	150	150
Gross weight		kg	73.0	145	160	160
Connecting pipe diameter	Gas(High pressure)	inch	5/8	7/8	7/8	7/8
	Gas(Low pressure)	inch	3/8	3/8	3/8	3/8
Drain pipe		inch	1	1	1	1



Model			GMV-R450P/Na(X4.0)-M	GMV-R560P/Na(X5.0)-M	GMV-R560P/Na(X6.0)-M
Fresh air volume		m ³ /h	4000	5000	6000
Power supply		V-N-Hz	380~ 50Hz	380V 3N~ 50Hz	380V 3N~ 50Hz
Capacity	Cooling	kW	45.0	56.0	56.0
	Heating	kW	32.0	39.0	39.0
Fan motor power input		kW	1.5	2.2	2.2
ODU static pressure	Standard	Pa	200	200	200
	Range	Pa	50~200	50~300	50~300
Sound pressure level		dB(A)	52	54	57
Outline dimension	W×D×H	mm	1700×1100×650	1700×1100×650	1700×1100×650
Package dimension	W×D×H	mm	1890×1460×835	1890×1460×835	1890×1460×835
Net weight		kg	190	215	215
Gross weight		kg	220	265	265
Connecting pipe diameter	Gas(High pressure)	inch	9/8	9/8	9/8
	Gas(Low pressure)	inch	1/2	3/8	3/8
Drain pipe		inch	1	1	1

Free Match

Free Match R410A



14.0/18.0kBtu/h
1drives2



24.0kBtu/h
1drives2



24.0kBtu/h
1drives3



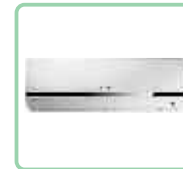
28.0kBtu/h
1drives4



36.0kBtu/h
1drives4



42.0kBtu/h
1drives5



Free-Match series DC inverter multi VRF air conditioner is the latest generation of inverter air conditioner. It can connect to 5 indoor units at most. The model and capacity of indoor unit can be selected to meet the requirements of residential environment and small office. The unit adopts advanced DC inverter compressor and unique appearance, and optimizes cooling system, thus resulting in better performance, higher EER/COP, more reliable operation, and more convenient installation and debugging.

- ◇ Different combination, the same comfortable feeling
Various indoor units optional.
45 combinations; combine your choices freely.
- ◇ Electronic expansion valve can adjust the heating/cooling capacity precisely according to different needs.
- ◇ The unit can operate in the extremely cold weather even the temperature reach as cold as -15°C.



Nominal Operating Condition

Item	Outdoor Condition		Indoor Condition	
	DB Temperature(°C)	WB Temperature(°C)	DB Temperature(°C)	WB Temperature(°C)
Cooling	35	24	27	19
Heating	7	6	20	15

Operation Range	Item	Outdoor Condition(DB °C)
	Cooling	-5~48
	Heating	-15~27

Outdoor Unit	One Unit		Tow Units			
GWHD(14)NK3B0	9		7+7		9+9	
	12		7+9		9+12	
	-		7+12		-	

Outdoor Unit	One Unit		Tow Units			
GWHD(18)NK3D0	9		7+7		9+9	
	12		7+9		9+12	
	18		7+12		-	

Outdoor Unit	One Unit		Tow Units					
GWHD(24)NK3D0	-		7+7		7+18		9+18	
	-		7+9		9+9		12+12	
	-		7+12		9+12		12+18	

Outdoor Unit	One Unit	Tow Units			Three Units		
GWHD(24)NK3E0	-	7+7	12+12		7+7+7	7+12+12	9+12+18
	-	7+9	12+18		7+7+9	7+12+18	9+18+18
	-	7+12	18+18		7+7+12	7+18+18	12+12+12
	-	7+18	-		7+7+18	9+9+9	9+12+12+18
	-	9+9	-		7+9+9	9+9+12	12+18+18
	-	9+12	-		7+9+12	9+9+18	-

Outdoor Unit	One Unit	Tow Units			Three Units			Four Units		
GWHD(28)NK3B0	-	7+7	12+12		7+7+7	7+18+18	12+18+18	7+7+7+7	7+9+12+12	9+9+12+12
	-	7+9	12+18		7+7+9	9+9+9	-	7+7+7+9	7+9+12+18	9+9+12+18
	-	7+12	18+18		7+7+12	9+9+12	-	7+7+7+12	7+9+18+18	9+9+18+18
	-	7+18	-		7+7+18	9+9+18	-	7+7+7+18	7+12+12+12	9+9+12+12+18
	-	9+9	-		7+9+9	9+12+12	-	7+7+9+9	7+12+12+18	9+12+12+18
	-	9+12	-		7+9+12	9+12+18	-	7+7+12+12	7+12+18+18	9+12+18+18
	-	9+18	-		7+9+18	9+18+18	-	7+7+12+18	9+9+9+9	12+12+12+12
	-	-	-		7+12+12	12+12+12	-	7+7+18+18	9+9+9+12	12+12+12+18

Outdoor Unit	One Unit	Tow Units			Three Units			Four Units		
GWHD(36)NK3A0	-	7+7	12+24		7+7+7	7+12+24	9+18+18	7+7+7+7	7+7+12+24	9+9+9+12
	-	7+9	18+18		7+7+9	7+18+18	9+18+21	7+7+7+9	7+7+18+18	9+9+9+18
	-	7+12	18+21		7+7+12	7+18+21	9+18+24	7+7+7+12	7+9+9+9	9+9+9+21
	-	7+18	18+24		7+7+18	7+18+24	9+21+21	7+7+7+18	7+9+9+12	9+9+9+24
	-	7+21	21+21		7+7+21	7+21+21	12+12+12	7+7+7+21	7+9+9+18	9+9+12+12
	-	7+24	21+24		7+7+24	9+9+9	12+12+18	7+7+7+24	7+9+9+21	9+9+12+18
	-	9+9	24+24		7+9+9	9+9+12	12+12+21	7+7+9+9	7+9+9+24	9+9+12+21
	-	9+12	-		7+9+12	9+9+18	12+12+24	7+7+9+12	7+9+12+12	9+9+18+18
	-	9+18	-		7+9+18	9+9+21	12+18+18	7+7+9+18	7+9+12+18	9+12+12+12
	-	9+21	-		7+9+21	9+9+24	12+18+21	7+7+9+21	7+9+12+21	9+12+12+18
	-	9+24	-		7+9+24	9+12+12	18+18+18	7+7+9+24	7+9+18+18	9+12+18+18
	-	12+12	-		7+12+12	9+12+18	-	7+7+12+12	7+12+12+12	12+12+12+12

Outdoor Unit	One Unit	Tow Units			Three Units			Four Units			Five Units		
GWHD(42)NK3A0	-	7+7	7+7+7	9+9+24	18+21+24	7+7+7+7	7+9+12+12	9+9+12+21	7+7+7+7+7	7+7+9+12+24	9+9+9+9+18		
	-	7+9	7+7+9	9+12+12	21+21+21	7+7+7+9	7+9+12+18	9+9+12+24	7+7+7+7+9	7+7+9+18+18	9+9+9+9+21		
	-	7+12	7+7+12	9+12+18	-	7+7+7+12	7+9+12+21	9+9+18+18	7+7+7+7+12	7+7+9+18+21	9+9+9+9+24		
	-	7+18	7+7+18	9+12+21	-	7+7+7+18	7+9+12+24	9+9+18+21	7+7+7+7+18	7+7+12+12+12	9+9+9+12+12		
	-	7+21	7+7+21	9+12+24	-	7+7+7+21	7+9+18+18	9+9+18+24	7+7+7+7+21	7+7+12+12+18	9+9+9+12+18		
	-	7+24	7+7+24	9+18+18	-	7+7+7+24	7+9+18+21	9+9+21+21	7+7+7+7+24	7+7+12+12+21	9+9+9+12+21		
	-	9+9	7+9+9	9+18+21	-	7+7+9+9	7+9+18+24	9+9+21+24	7+7+7+9+9	7+7+12+18+18	9+9+9+12+24		
	-	9+12	7+9+12	9+18+24	-	7+7+9+12	7+9+21+21	9+12+12+12	7+7+7+9+12	7+7+12+18+21	9+9+9+18+18		
	-	9+18	7+9+18	9+21+21	-	7+7+9+18	7+9+21+24	9+12+12+18	7+7+7+9+18	7+9+9+9+9	9+9+12+12+12		
	-	9+21	7+9+21	9+21+24	-	7+7+9+21	7+12+12+12	9+12+12+21	7+7+7+9+21	7+9+9+9+12	9+9+12+12+18		
	-	9+24	7+9+24	9+24+24	-	7+7+9+24	7+12+12+18	9+12+12+24	7+7+7+9+24	7+9+9+9+18	9+9+12+12+21		
	-	12+12	7+12+12	12+12+12	-	7+7+12+12	7+12+12+21	9+12+18+18	7+7+7+12+12	7+9+9+9+21	9+12+12+12+12		
	-	12+18	7+12+18	12+12+18	-	7+7+12+18	7+12+12+24	9+12+18+21	7+7+7+12+18	7+9+9+9+24	9+12+12+12+18		
	-	12+21	7+12+21	12+12+21	-	7+7+12+21	7+12+18+18	9+12+18+24	7+7+7+12+21	7+9+9+12+12	12+12+12+12+12		
	-	12+24	7+12+24	12+12+24	-	7+7+12+24	7+12+18+21	9+18+18+18	7+7+7+12+24	7+9+9+12+18	-		
	-	18+18	7+18+18	12+18+18	-	7+7+18+18	7+12+18+24	9+21+21+21	7+7+7+18+18	7+9+9+12+21	-		
	-	18+21	7+18+21	12+18+21	-	7+7+18+21	7+12+21+21	12+12+12+12	7+7+7+18+21	7+9+9+12+24	-		
	-	18+24	7+18+24	12+18+24	-	7+7+18+24	7+18+18+18	12+12+12+18	7+7+7+18+24	7+9+9+18+18	-		
	-	21+21	7+21+21	12+21+21	-	7+7+21+21	9+9+9+9	12+12+12+21	7+7+9+9+12	7+9+12+12+12	-		
	-	21+24	7+21+24	12+21+24	-	7+7+21+24	9+9+9+12	12+12+12+24	7+7+9+9+18	7+9+12+12+18	-		
	-	24+24	7+24+24	12+24+24	-	7+9+9+9	9+9+9+18	12+12+18+18	7+7+9+9+21	7+9+12+12+21	-		
	-	-	9+9+9	18+18+18	-	7+9+9+12	9+9+9+21	12+12+18+21	7+7+9+9+24	7+12+12+12+12	-		
	-	-	9+9+12	18+18+21	-	7+9+9+18	9+9+9+24	-	7+7+9+12+12	7+12+12+12+18	-		
	-	-	9+9+18	18+18+24	-	7+9+9+21	9+9+12+12	-	7+7+9+12+18	9+9+9+9+9	-		
-	-	9+9+21	18+21+21	-	7+9+9+24	9+9+12+18	-	7+7+9+12+21	9+9+9+9+12	-			

Outdoor Unit



NEW



NEW

Model of outdoor unit			GWHD(14)NK3BO	GWHD(18)NK3DO	GWHD(24)NK3DO	GWHD(24)NK3EO	GWHD(28)NK3BO
Function			Cooling/Heating				
Capacity	Cooling	Btu/h	14000(6800~16000)	17000(6800~21200)	23900(9200~28000)	24200(7500~34100)	27300(7500~34200)
	Heating	Btu/h	15000(5100~18000)	19100(5100~22700)	26300(12000~32400)	29000(12300~37600)	31800(9600~37600)
EER/C.O.P		W/W	3.22/3.63	3.21/3.63	3.21/3.41	3.21/3.62	3.23/3.63
Power supply		Ph-V-Hz	220-240V-1Ph-50Hz	220-240V-1Ph-50Hz	220-240V-1Ph-50Hz	220-240V-1Ph-50Hz	220-240V-1Ph-50Hz
Power input	Cooling	W	1270(600~2000)	1500(600~2250)	2180(750~3500)	2200(650~4500)	2480(650~4500)
	Heating	W	1240(580~2150)	1540(580~2300)	2260(1000~3500)	2350(980~3950)	2550(980~3950)
Airflow volume	Outdoor	m ³ /h	2400	2400	3200	3200	3200
Sound pressure level	Outdoor unit	dB(A)(H/L)	56	57	58	58	59
Connecting pipe diameter	Gas	inch	9.52	9.52	9.52	9.52	9.52
	Liquid	inch	6	6	6	6	6
Outline dimension	W×H×D	mm	899×596×378	899×596×378	955×700×396	955×700×396	955×700×396
Package dimension	W×H×D	mm	948×645×420	948×645×420	1033×750×463	1033×750×463	1033×750×463
Net weight /Gross weight		kg	50/55	50/55	52/57	53/58	53/58
Loading quantity	40'GP	sets	204	204	120	120	120
	40'HQ	sets	270	270	141	141	141



NEW



NEW

Model	Heat pump		GWHD(36)NK3A0	GWHD(42)NK3A0
Capacity	Cooling	kW	9.789	11.6
	Heating	kW	11	13.0
Power supply		V-Ph-Hz	220-240V-1Ph-50Hz	
Airflow volume		m ³ /h	3800	
Power input	Cooling	kW	3030	3590
	Heating	kW	3010	3545
EER		w/w	3.23	3.23
C.O.P.		w/w	3.65	3.67
Refrigerant charge volume		kg	3.6	4.8
Compressor quantity		units	1	1
Sound pressure level		dB(A)	54	54
Outline dimension	W×D×H	mm	950×412×840	1015×440×1103
Package dimension	W×D×H	mm	1100×450×905	1155×490×1220
Net weight		kg	73	79
Gross weight		kg	78	88
Connecting pipe diameter	Liquid(indoor1)	inch	1/4	1/4
	Gas(indoor1)	inch	3/8	3/8
	Liquid(indoor2)	inch	1/4	1/4
	Gas(indoor2)	inch	3/8	3/8
	Liquid(indoor3)	inch	1/4	1/4
	Gas(indoor3)	inch	1/2	1/2
	Liquid(indoor4)	inch	3/8	1/4
	Gas(indoor4)	inch	3/4	1/2
	Liquid(indoor5)	inch	—	3/8
	Gas(indoor5)	inch	—	3/4
Maximum drive IDU NO.		unit	4	5
Maximum total length(actual length)of fitting pipe		m	70(all indoor units);20(single indoor unit)	
Loading quantity	20'GP	sets	52	22
	40'GP	sets	108	48
	40'HQ	sets	108	48

Indoor Unit



Artful

Model			GWH(07)AA-K3DNA1B/I	GWH(09)AA-K3DNA1B/I	GWH(12)AB-K3DNA1B/I	GWH(18)AC-K3DNA1A/I
Capacity	Cooling	Btu/h	7100	8900	12000	18000
	Heating	Btu/h	8900	9500	13000	19800
Airflow volume		m ³ /h	420	450	550	840
Sound pressure level	dB(A)(SH/H/M/L)		37/35/32/29	37/35/32/29	40/35/33/30	46/43/38/34
Outline dimension	W×H×D	mm	815×267×165	815×267×165	872×283×178	960×300×195
Package dimension	W×H×D	mm	893×275×347	893×275×347	938×275×378	1038×295×393
Net weight /Gross weight		kg	11/13	11/13	11/15	13/18
Loading quantity	40'GP	sets	702	702	658	434
	40'HQ	sets	850	850	761	496



Cozy

Model			GWH(07)MA-K3DNA3B/I ^{NEW}	GWH(09)MA-K3DNA3B/I ^{NEW}	GWH(12)MB-K3DNA3B/I ^{NEW}	GWH(18)MC-K3DNA3B/I ^{NEW}
Capacity	Cooling	Btu/h	7100	8900	12000	18000
	Heating	Btu/h	8900	9500	13000	19800
Airflow volume		m³/h	420	450	550	840
Sound pressure level	dB(A)(SH/H/M/L)		36/34/31/28	37/34/31/28	38/34/32/30	46/43/40/36
Outline dimension	W×H×D	mm	790×265×170	790×265×170	845×275×180	940×298×200
Package dimension	W×H×D	mm	873×370×251	873×370×251	918×370×258	1013×383×300
Net weight /Gross weight		kg	9/12	9/12	10/13	13/17
	40'GP	sets	702	702	658	434
Loading quantity	40'HQ	sets	850	850	761	496



Trendy

Model			GWH(07)BA-K3DNA1A/I ^{NEW}	GWH(09)BA-K3DNA1A/I ^{NEW}	GWH(12)BB-K3DNA1A/I ^{NEW}	GWH(18)BC-K3DNA1A/I ^{NEW}
Capacity	Cooling	Btu/h	7100	8900	12000	18000
	Heating	Btu/h	8900	9500	13000	19800
Airflow volume		m³/h	420	450	550	840
Sound pressure level	dB(A)(SH/H/M/L)		37/34/31/28	38/34/31/28	40/34/32/30	46/43/40/36
Outline dimension	W×H×D	mm	770×250×190	770×250×190	830×285×200	1020×310×228
Package dimension	W×H×D	mm	858×287×333	858×287×333	909×280×388	1081×405×328
Net weight /Gross weight		kg	8.5/12.5	8.5/12.5	11/14	13/17
	40'GP	sets	792	792	480	431
Loading quantity	40'HQ	sets	890	890	540	488



Viola

Model			GWH(07)BA-K3DNA1A/I ^{NEW}	GWH(09)BA-K3DNA1A/I ^{NEW}	GWH(12)BB-K3DNA1A/I ^{NEW}	GWH(18)BC-K3DNA1A/I ^{NEW}
Capacity	Cooling	Btu/h	7100	8900	12000	18000
	Heating	Btu/h	8900	9500	13000	19800
Airflow volume		m³/h	420	450	550	840
Sound pressure level	dB(A)(SH/H/M/L)		37/34/31/28	38/34/31/28	40/34/32/30	46/43/40/36
Outline dimension	W×H×D	mm	770×250×190	770×250×190	830×285×200	1020×310×228
Package dimension	W×H×D	mm	858×287×333	858×287×333	909×280×388	1081×405×328
Net weight /Gross weight		kg	8.5/12.5	8.5/12.5	11/14	13/17
	40'GP	sets	792	792	480	431
Loading quantity	40'HQ	sets	890	890	540	488



Change

Model			GWH(07)BA-K3DNA1A/I ^{NEW}	GWH(09)BA-K3DNA1A/I ^{NEW}	GWH(12)BB-K3DNA1A/I ^{NEW}	GWH(18)BC-K3DNA1A/I ^{NEW}
Capacity	Cooling	Btu/h	7100	8900	12000	18000
	Heating	Btu/h	8900	9500	13000	19800
Airflow volume		m³/h	420	450	550	840
Sound pressure level	dB(A)(SH/H/M/L)		37/34/31/28	38/34/31/28	40/34/32/30	46/43/40/36
Outline dimension	W×H×D	mm	770×250×190	770×250×190	830×285×200	1020×310×228
Package dimension	W×H×D	mm	858×287×333	858×287×333	909×280×388	1081×405×328
Net weight /Gross weight		kg	8.5/12.5	8.5/12.5	11/14	13/17
	40'GP	sets	792	792	480	431
Loading quantity	40'HQ	sets	890	890	540	488



Console

Model			GEH(09)AA-K3DNA1B/I ^{NEW}	GEH(12)AA-K3DNA2B/I ^{NEW}	GEH(18)AA-K3DNA3B/I ^{NEW}
Capacity	Cooling	Btu/h	8870	12000	18000
	Heating	Btu/h	11260	13650	18800
Airflow volume		m³/h	480	550	650
Sound pressure level	dB(A)(SH/H/M/L)		48/47/39/35/32	48/47/39/35/32	49/48/44/39/35
Outline dimension	W×H×D	mm	700×600×215	700×600×215	700×600×215
Package dimension	W×H×D	mm	783×695×283	783×695×283	783×695×283
Net weight /Gross weight		kg	14/18	14/18	14/18
	40'GP	sets	381	381	381
Loading quantity	40'HQ	sets	427	427	427



Duct type

Model	Heat pump		GFH(09)EA-K3DNA1A/I ^{NEW}	GFH(12)EA-K3DNA1A/I ^{NEW}	GFH(18)EA-K3DNA1A/I ^{NEW}	GFH(21)EA-K3DNA1A/I ^{NEW}	GFH(24)EA-K3DNA1A/I ^{NEW}
	Capacity	Cooling	kW	2.5	3.5	5.0	6.0
Heating		kW	2.8	3.85	5.5	6.6	8.0
Power supply		V-Ph-Hz	220-240V-1Ph-50Hz				
Motor power input		W	75	65	80	110	110
Air flow volume		m³/h	450	550	700	1000	1000
		CFM	265	294	412	588	588
Standard ESP		Pa	0	0	0	0	0
Sound pressure level		dB(A)	37	39	40	42	42
Outline dimension		W×D×H mm	700×200×615	700×200×615	900×200×615	1100×200×615	1100×200×615
Package dimension		W×D×H mm	890×290×740	890×290×740	1120×290×740	1320×290×740	1320×290×740
Net weight		kg	22	24	25	29	29
Gross weight		kg	27	29	30	35	35
Connecting pipe diameter		Gas inch	3/8	3/8	1/2	5/8	5/8
		Liquid inch	1/4	1/4	1/4	3/8	3/8
Loading quantity		20'GP sets	108		90		72
		40'GP sets	234		192		162
		40'HQ sets	234		192		162



Four-way cassette

Model	Heat pump		GKH(12)BA-K3DNA2A/I ^{NEW}	GKH(18)BA-K3DNA2A/I ^{NEW}	GKH(12)BA-K3DNA1A/I ^{NEW}	GKH(18)BA-K3DNA1A/I ^{NEW}	GKH(24)BA-K3DNA1A/I ^{NEW}
	Capacity	Cooling	kW	3.5	4.5	3.5	5.0
Heating		kW	4.0	5.0	3.85	5.5	8.0
Power supply		V-Ph-Hz	220-240V-1Ph-50Hz				
Motor power input		W	12	12	70	70	100
Air flow volume		m³/h	600	600	680/600/480	680/600/480	1180/980/770
		CFM	353	353	400/353/282	400/353/282	694/576/453
Sound pressure level		dB(A)	47/41	47/41	42/40/38	42/40/38	45/43/41
Outline dimension		Body(W×D×H) mm	570×570×230	570×570×230	840×840×190	840×840×190	840×840×240
		Panel(W×D×H) mm	650×650×50	650×650×50	950×950×60	950×950×60	950×950×60
Package dimension		Body(W×D×H) mm	848×728×310	848×728×310	960×960×257	960×960×257	960×960×310
		Panel(W×D×H) mm	730×670×102	730×670×102	1040×1025×115	1040×1025×115	1040×1025×115
Net weight (Body/Panel)		kg	20/5	20/5	25/6.5	25/6.5	30/6.5
Gross weight (Body/Panel)		kg	27/10	27/10	33/10	33/10	38/10
Connecting pipe diameter		Gas inch	3/8	1/2	3/8	1/2	5/8
		Liquid inch	1/4	1/4	1/4	1/4	3/8
Loading quantity		20'GP sets	115		72		
		40'GP sets	237		144		
		40'HQ sets	269		144		



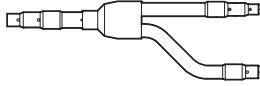
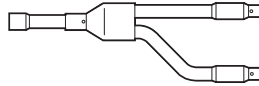
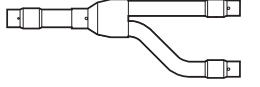
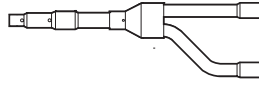
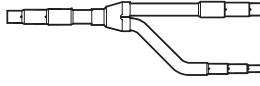
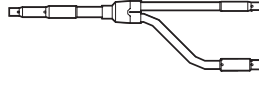
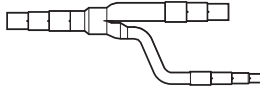
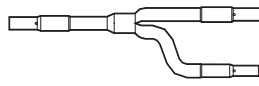
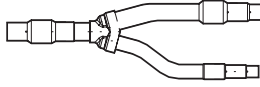
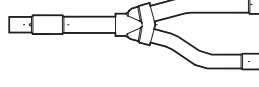
Floor ceiling type

Model	Heat pump		GTH(09)BA-K3DNA1A/I ^{NEW}	GTH(12)BA-K3DNA1A/I ^{NEW}	GTH(18)BA-K3DNA1A/I ^{NEW}	GTH(21)BA-K3DNA1A/I ^{NEW}
	Capacity	Cooling	kW	2.5	3.5	5.0
Heating		kW	2.8	3.85	5.5	8.0
Power supply		V-Ph-Hz	220-240V-1Ph-50Hz			
Motor power input		W	55	55	110	110
Air flow volume		m³/h	650/550/460	650/550/460	950	1250
		CFM	383/324/271	383/324/271	559	736
Sound pressure level		dB(A)	40/38/36	40/38/36	45	48
Outline dimension		W×D×H mm	1220×700×225	1220×700×225	1220×700×225	1220×770×225
Package dimension		W×D×H mm	1340×820×300	1340×820×300	1340×820×300	1340×820×300
Net weight		kg	40	40	40	45
Gross weight		kg	50	50	50	54
Connecting pipe diameter		Gas inch	3/8	3/8	1/2	5/8
		Liquid inch	1/4	1/4	1/4	3/8
Loading quantity		20'GP sets	66		66	
		40'GP sets	132		132	
		40'HQ sets	132		132	

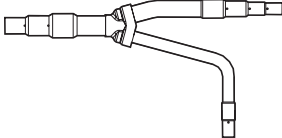
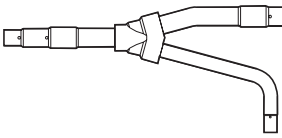
→ Branching Joint

Used for GMV-R(m) & GMV-Pd(m) Series

Branching Joint For Indoor Units

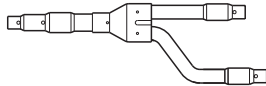
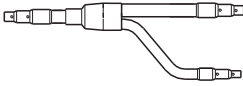
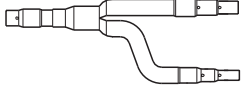
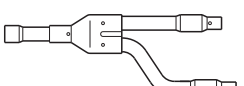
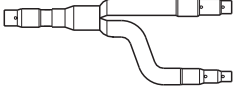
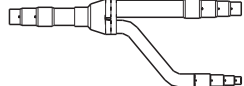
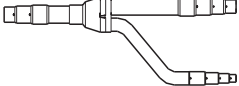
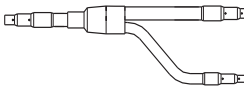
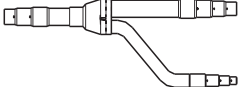
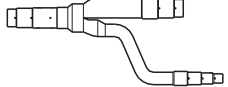
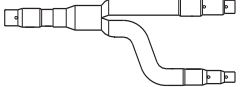

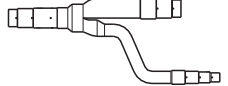
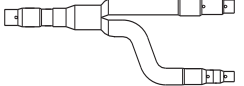


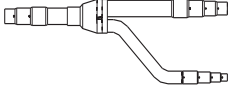
Model	X (kW) (Upstream Indoor unit total capacity)	Appearance	
		Gas Pipe	Liquid Pipe
FQ01A/A	$X \leq 20$		
FQ01B/A	$20 < X \leq 30$		
FQ02/A	$30 < X \leq 70$		
FQ03/A	$70 < X \leq 135$		
FQ04/A	$135 < X$		

Branching Joint For Outdoor Units

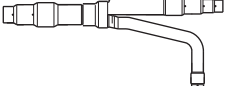

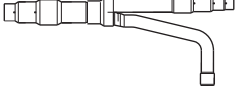
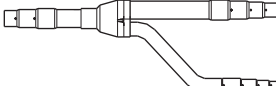
Model	X (kW) (Upstream Outdoor unit total capacity)	Appearance	
		Gas Pipe	Liquid Pipe
ML01/A	$20 \leq X \leq 56$		



Branching Joint For Indoor Units

Model	X (kW) (Upstream Indoor unit total capacity)	Appearance		
		High-pressure gas pipe	Low-pressure gas pipe	Liquid Pipe
FQ01Na/A	$X \leq 5.6$			
FQ02Na/A	$5.6 < X \leq 22$			
FQ03Na/A	$22 < X \leq 30$			
FQ04Na/A	$30 < X \leq 68$			
FQ05Na/A	$68 < X \leq 96$			
FQ06Na/A	$96 < X \leq 135$			
FQ07Na/A	$135 < X$			

Branching Joint For Outdoor Units

Model	X (kW) (Upstream Outdoor unit total capacity)	Appearance		
		High-pressure gas pipe	Low-pressure gas pipe	Liquid Pipe
ML01R	$22.4 \leq X \leq 96$			
ML02R	$96 < X$			





GREE CENTRAL AIR CONDITIONER
making better air conditioners



HEAT PUMP WATER HEATER

1. HOME GMV
2. AIR TO WATER HEAT PUMP (VERSATI SERIES)
3. HEAT PUMP
4. CIRCULATING HEAT PUMP





HOME GMV



GMV-Pds Series HOME-GMV R410a

HEAT PUMP WATER HEATER



10.0~16.0kW



22.4~28.0kW



200L~400L



5.0~8.0kW



20.0~30.0kW



Wireless
Controller
(optional)



Wired
Controller
(standard)



Item	Nominal Operating Condition					
	Outdoor Condition		Indoor Condition		Water Temperature(°C)	
	DB Temperature(°C)	WB Temperature(°C)	DB Temperature(°C)	WB Temperature(°C)	Start Temperature(°C)	End Temperature(°C)
Cooling	35	24	27	19	-	-
Heating	7	6	20	15	-	-
Hot water	20	15	-	-	15	55

Operation Range(outdoor)	Cooling	°C	-5~48
	Heating	°C	-20~27
	Cooling and water heating	°C	-5~43
	Heating and water heating	°C	-15~24
	water heating	°C	-15~43

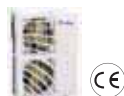
Model	Hydro-box	Water-tank
GMV-Pds100W/Na-K	RQ5GB-K	SXD250LC-K
GMV-Pds120W/Na-K	RQ8GB-K	SXD300LC-K
GMV-Pds140W/Na-K	RQ8GB-K	SXD350LC-K
GMV-Pds160W/Na-K		SXD400LC-K
GMV-Pds224W/Na-M	RQ20LA-K	SXD350LC-K
	RQD20LA-M	SXD400LC/A-K
		SXVD350LCJ/A-K
GMV-Pds280W/Na-M	RQ30LA-K	SXVD400LCJ/A-K
	RQD30LA-M	SXVD350LCJ2/A-K

Outdoor Unit



Model			GMV-Pds100W/Na-K	GMV-Pds120W/Na-K	GMV-Pds140W/Na-K
Capacity	Cooling/Heating	kW	10.0/11.0	12.0/13.2	14.0/15.4
ECOP		W/W	6.0	6.0	6.6
Rated water heating capacity		kW	5.0	5.0	8.0
Water temperature		°C	50(Default), 35~58(Adjustable temperature range)		
Noise		dB(A)	56	56	58
R410A charged volume		kg	5.0	5.0	7.0
Power supply		V-Ph-Hz	220-240V-1Ph-50Hz		
Rated power input	Cooling/Heating	kW	4.5/3.8	5.0/4.2	5.5/4.9
	Water heating	kW	2.0	2.0	2.86
Outline dimension (W x D x H)		mm	950 x 340 x 1250		
Package dimension (W x D x H)		mm	1110 x 450 x 1370		
Connecting pipes	Gas(AC)	inch	3/4		
	Liquid(AC)	inch	3/8		
	Gas(Water)	inch	5/8		
	Liquid(Water)	inch	1/2		
N.W./G.W		kg	105/115	105/115	115/125

ECOP is the maximum energy efficiency rate when the system in cooling+water heating mode.



Model			GMV-Pds160W/Na-K	GMV-Pds224W/Na-M	GMV-Pds280W/Na-M
Capacity	Cooling/Heating	kW	16.0/17.6	22.4/25.0	28.0/31.5
ECOP		W/W	6.6	6.0	6.4
Rated water heating capacity		kW	8.0	12.0~20.0	12.0~30.0
Water temperature		°C	50(Default), 35 - 65(Adjustable temperature range)		
Noise		dB(A)	60	58	58
R410A charged volume		kg	7.0	15	16
Power supply		V-Ph-Hz	220-240V-1Ph-50Hz	380-415V-3Ph-50Hz	
Rated power input	Cooling/Heating	kW	5.9/5.3	6.82/6.97	7.52/7.70
	Water heating	kW	2.86	8.0	10.7
		mm	950 x 340 x 1250	930 x 770 x 1670	
		mm	1110 x 450 x 1370	1010 x 850 x 1850	
Connecting pipes	Gas(AC)	inch	3/4	7/8	7/8
	Liquid(AC)	inch	3/8	3/8	3/8
	Gas(Water)	inch	5/8	3/4	3/4
	Liquid(Water)	inch	1/2	5/8	5/8
N.W./G.W		kg	115/125	265/285	265/285

ECOP is the maximum energy efficiency rate when the system in cooling+water heating mode.

Hydro-Box



Hydro-Box model				RQ5GB-K NEW	RQ8GB-K NEW
Outline dimension (W x D x H)		mm	650 x 300 x 250		650 x 300 x 250
Package dimension (W x D x H)		mm	725 x 365 x 313		725 x 365 x 313
Power supply		V-Ph-Hz	220-240V-1Ph-50Hz		220-240V-1Ph-50Hz
Connecting pipes	Refrigerant side	Liquid	inch	1/2	1/2
		Gas	inch	5/8	5/8
	Water side	Water inlet	inch	3/4	3/4
		Water outlet	inch	3/4	3/4
Water pump lift		m	6		6
N.W./G.W		kg	25/28		25/28



Hydro-Box model			RQ20LA-K	RQD20LA-M	RQ30LA-K	RQD30LA-M
Outline dimension (W x D x H)		mm	1050×470×760	1050×470×760	1050×470×910	1050×470×910
Package dimension (W x D x H)		mm	1120×500×890	1120×500×890	1120×500×1040	1120×500×1040
Power supply		V-Ph-Hz	220-240V-1Ph-50Hz	380-415V-3Ph-50Hz	220-240V-1Ph-50Hz	380-415V-3Ph-50Hz
Connecting pipes	Refrigerant side	Liquid	inch	5/8	5/8	5/8
		Gas	inch	3/4	3/4	3/4
	Water side	Water inlet	inch	1	1	1
		Water outlet	inch	1	1	1
Water pump lift		m	15	15	15	15
N.W./G.W		kg	75/90	110/122	100/115	120/135

Water Tank



Water tank model			SXD250LC-K	SXD300LC-K	SXD350LC-K	SXD400LC-K
Tank volume		L	250	300	350	400
Power supply		V-Ph-Hz	220-240V-1Ph-50Hz	220-240V-1Ph-50Hz	220-240V-1Ph-50Hz	220-240V-1Ph-50Hz
Dimension	Outline (Diameter x Ht)	mm	540×1945	620×1620	620×1895	620×2125
	Package (W x D x H)	mm	625×1970×630	705×1645×710	705×1920×710	705×2150×710
Auxiliary electrical heater	Rate power input	kW	1.5	1.5	1.5	1.5
N.W./G.W		kg	68/77	71/81	79/90	86/98
Waterpipes diameter	Cool water inlet	inch	1/2	1/2	1/2	1/2
	Hot water outlet	inch	1/2	1/2	1/2	1/2



Water tank model			SXVD200LCJ/A-K	SXVD200LCJ2/A-K	SXVD300LCJ/A-K	SXVD300LCJ2/A-K
Tank volume		L	200	200	300	300
Power supply		V-Ph-Hz	220-240V-1Ph-50Hz	220-240V-1Ph-50Hz	220-240V-1Ph-50Hz	220-240V-1Ph-50Hz
Dimension	Outline (Diameter x Ht)	mm	540×1595	540×1595	620×1620	620×1620
	Package (W x D x H)	mm	625×1620×630		705×1645×710	
Auxiliary electrical heater	Rate power input	kW	3.0			
N.W./G.W		kg	68/77	71/80	82/92	87/97
Waterpipes diameter	Cool water inlet	inch	1/2			
	Hot water outlet	inch	1/2			



Water tank model			SXVD350LCJ/A-K	SXVD350LCJ2/A-K	SXVD400LCJ/A-K	SXVD400LCJ2/A-K
Tank volume		L	350	350	400	400
Power supply		V-Ph-Hz	220-240V-1Ph-50Hz	220-240V-1Ph-50Hz	220-240V-1Ph-50Hz	220-240V-1Ph-50Hz
Dimension	Outline (Diameter x Ht)	mm	620×1895	620×1895	620×2125	620×2125
	Package (W x D x H)	mm	705×1920×722		705×2150×722	
Auxiliary electrical heater	Rate power input	kW	3.0			
N.W./G.W		kg	96/122	100/126	106/134	110/139
Waterpipes diameter	Cool water inlet	inch	1/2			
	Hot water outlet	inch	1/2			



Air Source Heat Pump Water Heater



Air To Water Heat Pump (Versati Series)

R410a



6kW~10kW



12kW~16kW



200L~300L



With refrigerant R410A and air source heat pump and DC inverter technologies, Versati series DC Inverter ATW heat pump combining cooling, floor heating and sanitary hot water systems is widely used in the house, apartment, villa hotel, etc.



- ◇ The outdoor unit adopts high efficiency and energy saving DC inverter compressor and motor.
- ◇ Indoor unit is compact and deluxe design and adopts high efficient plate type heat exchanger
- ◇ Intelligent control:
Soft startup of compressor and fan helps reduction of impact to electric network.
PFC control Technology.
BLDC Motor control technology
- ◇ One unit with several uses can meet the requirements of heating/cooling and hot water at the same time.
- ◇ Emergency operation
- ◇ Quick water heating
- ◇ Forced operation
- ◇ Holiday reservation
- ◇ Disinfection
- ◇ Antifreezing function

Complete unit model	GRS-CQ6.0Pd/Na-K	GRS-CQ8.0Pd/Na-K	GRS-CQ10Pd/Na-K	GRS-CQ12Pd/Na-K	GRS-CQ14Pd/Na-K	GRS-CQ16Pd/Na-K
Outdoor unit	GRS-CQ6.0Pd/Na-K(O)	GRS-CQ8.0Pd/Na-K(O)	GRS-CQ10Pd/Na-K(O)	GRS-CQ12Pd/Na-K(O)	GRS-CQ14Pd/Na-K(O)	GRS-CQ16Pd/Na-K(O)
Indoor unit	GRS-CQ6.0Pd/Na-K(I)	GRS-CQ8.0Pd/Na-K(I)	GRS-CQ10Pd/Na-K(I)	GRS-CQ12Pd/Na-K(I)	GRS-CQ14Pd/Na-K(I)	GRS-CQ16Pd/Na-K(I)

Complete unit model	GRS-CQ12Pd/Na-M	GRS-CQ14Pd/Na-M	GRS-CQ16Pd/Na-M
Outdoor unit	GRS-CQ12Pd/Na-M(O)	GRS-CQ14Pd/Na-M(O)	GRS-CQ16Pd/Na-M(O)
Indoor unit	GRS-CQ12Pd/Na-M(I)	GRS-CQ14Pd/Na-M(I)	GRS-CQ16Pd/Na-M(I)

Nominal Operating Condition					
Item	Outdoor Condition		Indoor heat exchanger		Note
	DB Temperature(°C)	WB Temperature(°C)	Inlet Temperature(°C)	Outlet Temperature(°C)	
Cooling	35	24	12	7	For FCU or Rediator
	35	24	23	18	For floor-cooling or similar application
Heating	7	6	40	45	For FCU or Radiator
	7	6	30	35	For floor-heating or similar application

Operation Range	Item	Outdoor Condition(DB °C)	
	Cooling	°C	10~48
	Heating	°C	-20~35
	Water Heating	°C	-20~45



Model			GRS-CQ6.0Pd/ Na-K(O) ^{NEW}	GRS-CQ 8.0Pd/Na-K(O)	GRS-CQ1 0Pd/Na-K(O)	GRS-CQ12Pd/Na-K(O)	GRS-CQ14Pd/Na-K(O)	GRS-CQ16Pd/Na-K(O)
Capacity ¹	Heating(floor heating)	kW	6.1	8.5	10	12	14	16
	Cooling(floor cooling)	kW	5.5	9.0	10.5	14	15	15.5
Power input ¹	Heating(floor heating)	kW	1.48	2.1	2.5	2.67	3.33	3.90
	Cooling(floor cooling)	kW	1.57	2.5	3.14	3.68	4.28	4.62
EER ¹	Cooling(floor cooling)	-	3.5	3.6	3.35	3.80	3.50	3.35
COP ¹	Heating(floor heating)	-	4.1	4.0	4.0	4.5	4.2	4.0
Capacity ²	Heating(Fan coil or radiator)	kW	5.5	8	9	11.5	13	14
	Cooling(for fan coil)	kW	4	6.5	8	10	11	11.5
Power input ²	Heating(Fan coil or radiator)	kW	1.78	2.54	2.9	3.35	3.88	4.59
	Cooling(for fan coil)	kW	1.53	2.50	3.08	3.45	3.93	4.2
EER ²	Cooling(for fan coil)	-	2.6	2.6	2.6	2.9	2.8	2.5
COP ²	Heating(Fan coil or radiator)	-	3	3.15	3.1	3.4	3.35	3.05
Refrigerant	Charge	g	1700	2000		3300		3300
Sanitary	Water temperature	°C	40-80		40-80		40-80	
Sound pressure level		dB(A)	57		59		62	
Piping connection	Gas	mm	12.7		15.9		15.9	
	Liquid	mm	6.35		9.52		9.52	
Dimension	Outline	W×D×H mm	921×427×791		921×427×791		950×412×1253	
	Package	W×D×H mm	1065×485×840		1065×485×840		1110×450×1385	



Model			GRS-CQ 12Pd/Na-M(O) ^{NEW}	GRS-CQ1 4Pd/Na-M(O) ^{NEW}	GRS-CQ16Pd/Na-M(O) ^{NEW}
Capacity ¹	Heating(floor heating)	kW	12	14	15
	Cooling(floor cooling)	kW	14	15	15.5
Power input ¹	Heating(floor heating)	kW	2.67	3.33	3.8
	Cooling(floor cooling)	kW	3.68	4.28	4.4
EER ¹	Cooling(floor cooling)	-	3.8	3.5	3.5
COP ¹	Heating(floor heating)	-	4.5	4.2	4.1
Capacity ²	Heating(Fan coil or radiator)	kW	11.5	13	13.5
	Cooling(for fan coil)	kW	10	11	11
Power input ²	Heating(Fan coil or radiator)	kW	3.35	3.88	4.2
	Cooling(for fan coil)	kW	3.45	3.93	4.0
EER ²	Cooling(for fan coil)	-	2.9	2.8	2.7
COP ²	Heating(Fan coil or radiator)	-	3.4	3.35	3.2
Refrigerant	Charge	g	3300	3300	3300
Sanitary	Water temperature	°C	40-80		
Sound pressure level		dB(A)	59		62
Piping connection	Gas	mm	15.9		
	Liquid	mm	9.52		
Dimension	Outline	W×D×H mm	950×412×1253		
	Package	W×D×H mm	1110×450×1385		



Note: 1 Capacities and power inputs are based on the following conditions:



- ① Cooling conditions – Indoor Water Temperature 23°C/18°C; Outdoor Air Temperature 35°CDB/24°CWB
- ② Heating conditions Indoor Water Temperature 30°C/35°C, Outdoor Air Temperature 7°CDB/6°CWB
- ③ Standard piping length 7.5m

2 Capacities and power inputs are based on the following conditions:


- ① Cooling conditions: Indoor Water Temperature 12°C/7°C; Outdoor Air Temperature 35°CDB/24°CWB
- ② Heating conditions – Indoor Water Temperature 40°C/45°C; Outdoor Air Temperature 7°CDB/6°CWB
- ③ Standard piping length 7.5m

Water Tank

			Single-coil water tank 		Dual-coil water tank 	
Water tank model			SXVD200LCJ/A-K <small>NEW</small>	SXVD300LCJ/A-K <small>NEW</small>	SXVD200LCJ2/A-K <small>NEW</small>	SXVD300LCJ2/A-K <small>NEW</small>
Tank volume		L	200	300	200	300
Power supply		V-Ph-Hz	220V-240V-1Ph-50Hz			
Auxiliary electrical heater power input		kw	3.0	3.0	3.0	3.0
Dimension	Outline(Diameter×H)	mm	540×1595	620×1620	540×1595	620×1620
	Package(W×D×H)	mm	1620×625×630	1645×705×710	1620×625×630	1645×705×710
Water pipes diameter	Cool water inlet	inch	1/2			
	Hot water outlet	inch	1/2			
N.W./G.W		kg	68/77	82/92	71/80	87/97

			Single-coil water tank 		Dual-coil water tank 	
Water tank model			SXVD200LCJ/A-M <small>NEW</small>	SXVD300LCJ/A-M <small>NEW</small>	SXVD200LCJ2/A-M <small>NEW</small>	SXVD300LCJ2/A-M <small>NEW</small>
Tank volume		L	200	300	200	300
Power supply		V-Ph-Hz	380V~415V-3Ph-50Hz			
Auxiliary electrical heater power input		kw	3.0	3.0	3.0	3.0
Dimension	Outline(Diameter×H)	mm	540×1595	620×1620	540×1595	620×1620
	Package(W×D×H)	mm	1620×625×630	1645×705×710	1620×625×630	1645×705×710
Water pipes diameter	Cool water inlet	inch	1/2	1/2	1/2	1/2
	Hot water outlet	inch	1/2	1/2	1/2	1/2
N.W./G.W		kg	68/77	82/92	71/80	87/97

Indoor Unit

			AIR TO WATER HEAT PUMP 			
Model			GRS-CQ6.0Pd/Na-K(I) <small>NEW</small>	GRS-CQ8.0Pd/Na-K(I)	GRS-CQ10.0Pd/Na-K(I)	
Power supply		V-Ph-Hz	220V~240V-1Ph-50Hz			
Nominal input(indoor only)		W	6200			
Liquid side diameter		mm(inch)	6.35(1/4)	9.52(3/8)	9.52(3/8)	
Gas side diameter		mm(inch)	12.7(1/2)	15.9(5/8)	15.9(5/8)	
Operation range (Leaving water temp.)	Cooling(Fan coil unit)	°C	7~25	7~25	7~25	
	Cooling(Floor cooling)	°C	18~25	18~25	18~25	
	Heating(Fan coil unit)	°C	25~55	25~55	25~55	
	Heating(Floor heating)	°C	25~45	25~45	25~45	
Main components	pump	Type	-	Water-cooled	Water-cooled	Water-cooled
		Nr.of speed	-	3	3	3
		Power input	W	205	205	205
		Water flow limit	LPM	7.5	7.5	7.5
	Exoansion vessel	Volume	Liter	10	10	10
		Water pressure(Max)	Bar	3	3	3
		Water pressure(Pre)	Bar	1	1	1
	Electric heater	Type	-	Sheath	Sheath	Sheath
		Material	-	Stainless Steel	Stainless Steel	Stainless Steel
		Operation	-	Automatic	Automatic	Automatic
		Steps	-	2	2	2
		Capacity combination	kW	1.5+1.5	3+3	3+3
	Heat exchanger	Power input	V-Ph-Hz	230V-1Ph-50Hz	230V-1Ph-50Hz	230V-1Ph-50Hz
		Type	-	Brazed Plate HEX	Brazed Plate HEX	Brazed Plate HEX
	Quantity	-	1	1	1	
Dimension	Outline(W×D×H)	mm	900×500×324	900×500×324	900×500×324	
	Package(W×D×H)	mm	1040×605×380	1040×605×380	1040×605×380	
Weight	Net	kg	51	52	52	
	Gross	kg	56	62	62	



AIR TO WATER HEAT PUMP

Model		GRS-CQ12Pd/Na-K(l)	GRS-CQ14Pd/Na-K(l)	GRS-CQ16Pd/Na-K(l)		
Power supply	V-Ph-Hz	220V~240V-1Ph-50Hz				
Nominal input(indoor only)	W	6200				
Liquid side diameter	mm(inch)	9.52(3/8)	9.52(3/8)	9.52(3/8)		
Gas side diameter	mm(inch)	15.9(5/8)	15.9(5/8)	15.9(5/8)		
Operation range (Leaving water temp.)	Cooling(Fan coil unit)	°C	7~25	7~25		
	Cooling(Floor cooling)	°C	18~25	18~25		
	Heating(Fan coil unit)	°C	25~55	25~55		
	Heating(Floor heating)	°C	25~45	25~45		
Main components	pump	Type	Water-cooled	Water-cooled	Water-cooled	
		Nr.of speed	3	3	3	
		Power input	W	205	205	205
		Water flow limit	LPM	7.5	7.5	7.5
	Exoansion vessel	Volume	Liter	10	10	10
		Water pressure(Max)	Bar	3	3	3
	Eletric heater	Water pressure(Pre)	Bar	1	1	1
		Type	-	Sheath	Sheath	Sheath
		Material	-	Stainless Steel	Stainless Steel	Stainless Steel
		Operation	-	Automatic	Automatic	Automatic
		Steps	-	2	2	2
	Heat exchanger	Capacity combination	kW	3+3	3+3	3+3
		Power input	V-Ph-Hz	230V-1Ph-50Hz	230V-1Ph-50Hz	230V-1Ph-50Hz
	Heat exchanger	Type	-	Brazed Plate HEX	Brazed Plate HEX	Brazed Plate HEX
		Quantity	-	1	1	1
	Dimension	Outline(W×D×H)	mm	900×500×324	900×500×324	900×500×324
Package(W×D×H)		mm	1040×605×380	1040×605×380	1040×605×380	
Weight	Net	kg	53	53	53	
	Gross	kg	63	63	63	



AIR TO WATER HEAT PUMP

Model		GRS-CQ12Pd/Na-M(l) ^{NEW}	GRS-CQ14Pd/Na-M(l) ^{NEW}	GRS-CQ16Pd/Na-M(l) ^{NEW}		
Power supply	V-Ph-Hz	380V~415V-3Ph-50Hz				
Nominal input(indoor only)	W	6200				
Liquid side diameter	mm(inch)	9.52(3/8)	9.52(3/8)	9.52(3/8)		
Gas side diameter	mm(inch)	15.9(5/8)	15.9(5/8)	15.9(5/8)		
Operation range (Leaving water temp.)	Cooling(Fan coil unit)	°C	7~25	7~25		
	Cooling(Floor cooling)	°C	18~25	18~25		
	Heating(Fan coil unit)	°C	25~55	25~55		
	Heating(Floor heating)	°C	25~45	25~45		
Main components	pump	Type	Water-cooled	Water-cooled	Water-cooled	
		Nr.of speed	3	3	3	
		Power input	W	205	205	205
		Water flow limit	LPM	7.5	7.5	7.5
	Exoansion vessel	Volume	Liter	10	10	10
		Water pressure(Max)	Bar	3	3	3
	Eletric heater	Water pressure(Pre)	Bar	1	1	1
		Type	-	Sheath	Sheath	Sheath
		Material	-	Stainless Steel	Stainless Steel	Stainless Steel
		Operation	-	Automatic	Automatic	Automatic
		Steps	-	1	1	1
	Heat exchanger	Capacity combination	kW	6	6	6
		Power input	V-Ph-Hz	400V-3Ph-50Hz	400V-3Ph-50Hz	400V-3Ph-50Hz
	Heat exchanger	Type	-	Brazed Plate HEX	Brazed Plate HEX	Brazed Plate HEX
		Quantity	-	1	1	1
	Dimension	Outline(W×D×H)	mm	900×500×324	900×500×324	900×500×324
Package(W×D×H)		mm	1040×605×380	1040×605×380	1040×605×380	
Weight	Net	kg	52	53	53	
	Gross	kg	62	63	63	



Air Source Heat Pump Water Heater



Heat Pump

R410a



9kW



16kW

Heat pump water heater adopts heat pump principle to supply stable and sanitary hot water to the users. It is widely used in the household, apartment, hotel, ect.



- ◇ High efficiency and energy saving
- ◇ Easy Installation and Maintenance
- ◇ Comfortable
- ◇ Auto cleaning, healthy on every day
- ◇ Multipoint water supply and simultaneous water using
- ◇ Intelligent water supply and energy saving
- ◇ Safe and Reliable

Operation Range	Item	Outdoor Condition(DB°C)
	Water Heating	-15~28

Nominal Operating Condition

Item	Outdoor Condition	
	DB Temperature(°C)	WB Temperature(°C)
Water Heating	7	6



Model			KFRS-9/Na-M	GRS-S16/Na-M
Rated water heating capacity	kW		9.0	12.8
Water temperature	°C		45	45
Noise	dB(A)		60	62
R410a charged volume	kg		3.3	4.5
Power supply	V-Ph-Hz		380-415V-3Ph-50Hz	
Power input	Water heating	kW	2.5	4.4
COP(Heating)*		W/W	3.6	3.3
Outline dimension(W×D×H)		mm	1018×412×840	1032×412×1250
Package dimension(W×D×H)		mm	1100×450×982	1100×450×1405
Connecting pipes	Gas	inch	3/4	3/4
	Liquid	inch	1/2	1/2
N.W./G.W.		kg	90/100	132/145

NOTE: The inner coils water tank must be matched by user.



Air Source Heat Pump Water Heater



Circulating Heat Pump

R134a



3.8kW/5.0kW



150L~300L

Taking the air as the main energy source and electric heat as auxiliary energy, the unit makes high temperature hot water which is stored in the water tank and used for family bathing, heating and daily life. It is the most energy saving and environment friendly water heater used in families.



- ◇ High efficiency and energy saving
- ◇ Easy Installation and Maintenance
- ◇ Comfortable
- ◇ Auto cleaning, healthy on every day
- ◇ Multipoint water supply and simultaneous water using
- ◇ Intelligent water supply and energy saving
- ◇ Safe and Reliable

Model	Water-tank
GRS-C3.8/NbA-K	SXD150LC-K
	SXD200LC-K
	SXD250LC-K
GRS-C5.0/NbA-K	SXD250LC-K
	SXD300LC-K

Nominal Testing Condition				
Item	Outdoor Condition		Water Side Condition	
	DB Temperature(°C)	WB Temperature(°C)	Initial Water Temperature(°C)	Final Water Temperature(°C)
Water Heating	20	15	15	55

Operation Range	Item	Outdoor Condition(DB °C)
	Water Heating	-15~43



Outdoor unit



Model		GRS-C3.8/NbA-K	GRS-C5.0/NbA-K
Rated water heating capacity	kW	3.8	5.0
Rated water supply	L/h	82	108
Water temperature	°C	35-70	35-70
Noise	dB(A)	50	52
R134a charged volume	kg	0.70	0.95
Power supply	V-Ph-Hz	220-240V-1Ph-50Hz	
Power input	Water heating kW	1.02	1.35
COP(Heating)*		3.72	3.70
Outline dimension(W×D×H)		762×256×750	762×256×750
Package dimension(W×D×H)		878×360×800	878×360×800
Connecting pipes' diameter(to water tank)		3/4	3/4
N.W./G.W.		55/61	60/66

Water Tank



With Electric Heater

Water tank model		SXD150LC-K	SXD200LC-K	SXD250LC-K	SXD300LC-K	
Tank volume	L	150	200	250	300	
Power supply	V-Ph-Hz	220-240V-1Ph-50Hz				
Auxiliary electrical heater power input		kW	1.5	1.5	1.5	1.5
Dimension	Outline(Diameter×H)	mm	520×1350	540×1595	540×1945	620×1620
	Package(W×D×H)	mm	1375×605×610	1620×625×630	1970×625×630	1645×705×710
water pipes diameter	Tap water inlet	inch	1/2	1/2	1/2	1/2
	Hot water outlet	inch	1/2	1/2	1/2	1/2
N.W./G.W		kg	45/52	57/66	68/77	71/81







CHILLER/TERMINAL

1. CHILLER

MODULAR AIR-COOLED SCROLL CHILLER (C SERIES)
WATER-COOLED SCREW CHILLER
MODULAR AIR-COOLED SCREW CHILLER
CENTRIFUGAL CHILLER
MINI CHILLER

2. TERMINAL

FAN COIL UNIT
PACKAGE AHU
HYDRONIC AIR HANDLING UNIT(GZK SERIES)
AIR CURTAIN
DIFFUSER
ENERGY-RECOVERY VENTILATION SYSTEM





Chiller



Modular Air-cooled Scroll Chiller(C Series)

R410A



62.5/71.5kW
17.8/20.3USRT



125/134kW
35.5/40.7USRT



It's a kind of air cooled unit (heat pump) with modular combination and widely used in new or reconstructed civil or industrial buildings.



- ◇ Main module patent optional; any unit can be set as main module via wired controller.
- ◇ High efficient heat operation even in low temperature and high humidity, with intelligent defrost mode.
- ◇ Modular operation, up to 16 units (62.5, 71.5kW) 8 units (125, 143kW) can be integrated
- ◇ Easy maintenance thanks for gapless modular design
- ◇ Multi compressor paralleling technology to guarantee longer usage life
- ◇ High stability and reliability.
- ◇ Quiet mode available
- ◇ Easy maintenance, thanks to unique structural design
- ◇ Saving installation space by 35% compared to conventional design
- ◇ Throttling controlled by electronic expansion valve, more accurate and rapid
- ◇ Wide ambient range ensure stable operation in extreme climate



Modular structure



Intelligent defrosting



Diagnosis displaying



Multi circuits



Wired controller



Efficient control performance
For Heat Pump UnitS Only



Item	Water Side				Air Side		
	Nominal Operating Condition		Operating Range		Nominal Operating Condition		Operating Range
	Inlet Water Temp.(°C)	Outlet Water Temp.(°C)	Outlet Water Temp.(°C)	Temp. Difference between Inlet&Outlet (°C)	Outdoor Temp. (DB°C)	Outdoor Temp. (WB°C)	Outdoor Temp. (DB°C)
Cooling	12	7	5~15	2.5~8	35	/	5~46
Heating	40	45	40~50	2.5~8	7	6	-15~24



Model	Cooling only		LSQWF65MG/NaC-M	LSQWF80MG/NaC-M	LSQWF130MG/NaC-M	LSQWF160MG/NaC-M
	Heating pump		LSQWRF65MG/NaC-M	LSQWRF80MG/NaC-M	LSQWRF130MG/NaC-M	LSQWRF160MG/NaC-M
Capacity	Cooling	kW	62.5	71.5	125	143
	Heating *	kW	70	80	140	160
	EER	W/W	2.52	2.68	2.52	2.68
	C.O.P.*	W/W	2.91	3.0	2.91	3.0
	Power supply	V-Ph-Hz	400V-3Ph-50Hz			
Power input	Cooling	kW	24.8	26.7	49.6	53.4
	Heating *	kW	24.1	26.7	48.1	53.3
Water side heat exchanger	Type		shell and tube evaporator			
	Water flow volume	m ³ /h	10.8	12.24	21.6	24.48
		GPM	47.3	54.1	94.6	108.2
	Pressure drop	kPa	30	35	30	35
		ft.WG	9.8	11.5	9.8	11.5
Connection pipe	mm	DN50		DN50		
Air side heat exchanger	Fan type/Number of fans		axial fan/3		axial fan/6	
	Total fan air flow	m ³ /h	3.0×10 ⁴	3.2×10 ⁴	6.0×10 ⁴	6.4×10 ⁴
		GPM	1.8×10 ⁴	1.9×10 ⁴	3.5×10 ⁴	3.8×10 ⁴
	Total fan motor power	W	700×3	700×3	700×6	700×6
Sound pressure level	dB(A)	67	68	69	70	
Dimension	Outline (W×D×H)	mm	1100×2265×2214	1100×2265×2214	2200×2265×2214	2200×2265×2214
	Package (W×D×H)	mm	1180×2345×2214	1180×2345×2214	2280×2345×2214	2280×2345×2214
Net weight	Cooling only	kg	900	1000	1780	1980
	Heating pump	kg	950	1050	1880	2080
Loading weight	40' GP/40' HQ		10		5	

*For heat pump unit only





Chiller



Water-Cooled Screw Chiller R134a



180KW~1275KW
52RT~364RT

▶ Gree water cooled screw chiller with refrigerant R134a features high energy efficiency , reliable operation, and compact structure. It is widely used in the office building, hotel, school and shop or used in the manufacturing process to lower the temperature.

- ◇ High coefficient of performance, nearly 1/3 more energy saving than ordinary chiller unit. For wide working range, the machine may run within 25%-100% energy range.
- ◇ LCD control panel(optional to upgrade to colorful touch screen control panel).
- ◇ Water flow switch kit.
- ◇ Reserved interface for water pump and cooling tower.
- ◇ Oil heater.
- ◇ Sight glasses, dryer filter high and low pressure gauges, high and low pressure switches.
- ◇ Long distance monitoring and centralized control (optional).
- ◇ Flooded type evaporator.
- ◇ Multi compressor paralleling technology for high capacity units.
- ◇ Orifice throttle disc integrated with electronic expansion valve technology.
- ◇ Automatic stepless or stepped capacity adjustment.
- ◇ Compact design.
- ◇ Reliable oil return system.
- ◇ High efficient oil separator system thanks to mechanical and adsorptive fractionation devices.
- ◇ Accurate high-pressure liquid injection oil return technology.
- ◇ Low oil level protection technology.
- ◇ Compressor safeties:
 - Compressor high/low pressure protection
 - Oil box high temperature protection
 - Over load protection
 - Anti-freeze protection
 - High discharges temperature protection
 - Loss of cooler/condenser water flow protection
 - Sensor fault protection
 - Reverse phase protection
 - Fusible plug or relief valve
 - Refrigerant liquid injection valve
 - Water low flow volume protection



Completed protection



Compact design

Operating Condition of Nominal Cooling

Chilled Water		Cooling Water	
Inlet Water Temp. (°C)	Outlet Water Temp. (°C)	Inlet Water Temp. (°C)	Outlet Water Temp. (°C)
12	7	30	35

Operating Range

Chilled Water		Cooling Water	
Outlet Water Temp. (°C)	Temp. Difference Between Inlet & Outlet (°C)	Inlet Water Temp. (°C)	Temp. Difference Between Inlet & Outlet (°C)
5~15	2.5~8	18~35	3.5~8

Model			LSBLG180H/Nb-M ^{NEW}	LSBLG210H/Nb-M ^{NEW}	LSBLG240H/Nb-M ^{NEW}	LSBLG300H/Nb-M ^{NEW}
Cooling capacity	kW		182	212	238	296
	RT		52	61	68	85
Cooling control			Continuous adjustment			
IPLV	W/W		5.87	5.71	5.80	5.91
EER	W/W		5.06	5.05	5.06	5.19
Power input	kW		36	42	47	57
Power supply	V-Ph-Hz		380V-3N-50Hz			
Compressor	Type		semi-hermetic twin screw compressor			
	Starting mode		Y—△ or Part Winding			
	Quantity		1	1	1	1
Refrigerant charge volume	kg		80	90	100	110
Refrigerant oil	Category		BSE170			
	Charge volume	L	15	15	15	22
Evaporator	Type		flooded shell and tube			
	Water flow volume	m ³ /h	30.96	36	41.04	51.12
		GPM	136	159	181	225
	Pressure drop	kPa	40	45	50	60
		ft.WG	13.4	15.1	16.7	20.1
Connection pipe	mm	DN100	DN100	DN100	DN125	
Condenser	Type		shell and tube			
	Water flow volume	m ³ /h	38.88	46.08	51.12	64.08
		GPM	172	203	225	282
	Pressure drop	kPa	56	57	65	65
		ft.WG	18.7	19.1	21.8	21.8
Connection pipe	mm	DN100	DN100	DN100	DN125	
Sound pressure level	dB(A)		76.2	76.6	77.4	80.1
Outline dimension	Width	mm	3160	3160	3160	3160
	Depth	mm	1150	1150	1150	1400
	Height	mm	1587	1587	1587	1680
Weight	Net weight	kg	1800	1900	2100	2800
	Operating weight	kg	1890	1995	2205	2940

Model			LSBLG340H/Nb-M ^{NEW}	LSBLG380H/Nb-M ^{NEW}	LSBLG450H/Nb-M ^{NEW}	LSBLG500H/Nb-M ^{NEW}
Cooling capacity	kW		340	383	445	508
	RT		97	109	127	145
Cooling control			Continuous adjustment			
IPLV	W/W		6.02	5.94	6.09	6.08
EER	W/W		5.23	5.18	5.30	5.35
Power input	kW		65	74	84	95
Power supply	V-Ph-Hz		380V-3N-50Hz			
Compressor	Type		semi-hermetic twin screw compressor			
	Starting mode		Y—△ or Part Winding			
	Quantity		1	1	1	1
Refrigerant charge volume	kg		120	130	140	160
Refrigerant oil	Category		BSE170			
	Charge volume	L	19	19	35	35
Evaporator	Type		flooded shell and tube			
	Water flow volume	m ³ /h	57.96	65.88	77.04	87.12
		GPM	255	291	339	383
	Pressure drop	kPa	60	62	64	66
		ft.WG	20.1	20.7	21.4	22.1
Connection pipe	mm	DN125	DN125	DN150	DN150	
Condenser	Type		shell and tube			
	Water flow volume	m ³ /h	73.08	82.08	96.12	109.08
		GPM	321	361	423	480
	Pressure drop	kPa	66	67	69	71
		ft.WG	22.1	22.4	23.1	23.8
Connection pipe	mm	DN125	DN125	DN150	DN150	
Sound pressure level	dB(A)		81.2	83.3	83.9	84.1
Outline dimension	Width	mm	3160	3160	3160	3160
	Depth	mm	1400	1400	1520	1520
	Height	mm	1680	1720	2130	2130
Weight	Net weight	kg	2900	3100	3850	4100
	Operating weight	kg	3045	3255	4042.5	4305



Model			LSBLG580H/Nb-M ^{NEW}	LSBLG640H/Nb-M ^{NEW}	LSBLG680H/Nb-M ^{NEW}	LSBLG760H/Nb-M ^{NEW}
Cooling capacity	kW		582	637	680	767
	RT		166	182	194	219
Cooling control			Continuous adjustment			
IPLV	W/W		5.87	5.85	6.01	6.02
EER	W/W		5.20	5.22	5.23	5.18
Power input	kW		112	122	130	148
Power supply	V-Ph-Hz		380V-3N-50Hz			
Compressor	Type		semi-hermetic twin screw compressor			
	Starting mode		Y—△ or Part Winding			
	Quantity		1	1	2	2
Refrigerant Charge volume	kg		180	200	250	260
Refrigerant oil	Category		BSE170			
	Charge volume	L	35	35	19*2	19*2
Evaporator	Type		flooded shell and tube			
	Water flow volume	m ³ /h	100.08	110.16	117	132.12
		GPM	440	484	515	581
	Pressure drop	kPa	68	74	76	76
		ft.WG	22.8	24.8	25.4	25.4
Connection pipe	mm	DN150	DN150	DN200	DN200	
Condenser	Type		shell and tube			
	Water flow volume	m ³ /h	124.92	137.16	146.16	164.16
		GPM	550	603	643	726
	Pressure drop	kPa	72	73	76	77
		ft.WG	24.1	24.4	25.4	25.8
Connection pipe	mm	DN150	DN150	DN200	DN200	
Sound pressure level	dB(A)		84.3	85.4	82.5	84.6
Outline dimension	Width	mm	3160	3160	3400	3400
	Depth	mm	1520	1520	1700	1700
	Height	mm	2130	2130	2030	2030
Weight	Net weight	kg	4400	4600	5100	5500
	Operating weight	kg	4620	4830	5355	5775



Model			LSBLG880H/Nb-M ^{NEW}	LSBLG1000H/Nb-M ^{NEW}	LSBLG1160H/Nb-M ^{NEW}	LSBLG1280H/Nb-M ^{NEW}
Cooling capacity	kW		880	1006	1155	1275
	RT		251	287	330	364
Cooling control			Continuous adjustment			
IPLV	W/W		5.94	5.97	5.82	5.98
EER	W/W		5.24	5.29	5.16	5.23
Power input	kW		168	190	224	244
Power supply	V-Ph-Hz		380V-3N-50Hz			
Compressor	Type		semi-hermetic twin screw compressor			
	Starting mode		Y—△ or Part Winding			
	Quantity		2	2	2	2
Refrigerant charge volume	kg		270	270	280	300
Refrigerant oil	Category		BSE170			
	Charge volume	L	35*2	35*2	35*	35*2
Evaporator	Type		flooded shell and tube			
	Water flow volume	m ³ /h	150.84	173.16	199.08	218.88
		GPM	665	762	876	964
	Pressure drop	kPa	76	77	78	78
		ft.WG	25.4	25.8	26.1	26.1
Connection pipe	mm	DN200	DN200	DN200	DN200	
Condenser	Type		shell and tube			
	Water flow volume	m ³ /h	189	216	248.04	273.96
		GPM	832	951	1092	1206
	Pressure drop	kPa	82	83	84	85
		ft.WG	27.4	27.8	28.1	28.4
Connection pipe	mm	DN250	DN250	DN250	DN250	
Sound pressure level	dB(A)		85.2	85.4	85.6	86.8
Outline dimension	Width	mm	3900	3900	3900	3900
	Depth	mm	1900	1900	1900	1900
	Height	mm	2230	2230	2230	2230
Weight	Net weight	kg	6200	6500	6800	7000
	Operating weight	kg	6510	6825	7140	7350



Chiller



Centrifugal Chiller R134a



1400kW~7200kW
398RT~2044RT



Touch Screen
(Standard)

▶ Adopted advanced manufacturing technology and microcomputer control system, the centrifugal chiller features high reliability, high energy efficiency, stable operation, wide adjustment range etc. With R134a and 380V/6000V/10000V power supply, the unit is widely used in the office building, hospital, school, supermarket etc.

- ◇ Reserved interface for water pump and cooling tower.
- ◇ Low voltage starter(for 380-440V units).
- ◇ High voltage power cable connection cabinet(optional for 10kV units).
- ◇ Sight glasses, dryer filter, high and low pressure gauges.
- ◇ Oil heater, oil purifier.
- ◇ Water flow switch kit.
- ◇ Long distance monitoring and centralized control (optional).
- ◇ High efficient closed impeller.
- ◇ Ultra-high efficiency optimum design.
- ◇ Automatic stepless adjustment, adjustment capacity rang from 10%to100%.
- ◇ Instant response and excellent performance thank to advanced intelligent Fuzzy-PID compound control algorithm.
- ◇ Orifice throttle disc integrated with electronic expansion valve technology.
- ◇ All components optimized for use with R134a refrigerant.
- ◇ High stability and reliability.
- ◇ Compressor high/low pressure protection
- High oil supply temperature protection
- Low oil pressure difference protection
- Oil pump over current protection
- Motor over current protection
- Surge protection
- High motor temperature protection
- Anti-freeze protection
- Loss of cooler/condenser water flow protection
- Sensor fault protection
- Reverse phase protection
- Starter fault protection



Intelligent operation



Completed safeties



Low voltage startup



Colorful touch screen control panel

Operating Condition of Nominal Cooling

Chilled Water		Cooling Water	
Inlet Water Temp. (°C)	Outlet Water Temp. (°C)	Inlet Water Temp. (°C)	Outlet Water Temp. (°C)
12	7	30	35

Operating Range

Chilled Water		Cooling Water	
Outlet Water Temp. (°C)	Temp. Difference Between Inlet & Outlet (°C)	Inlet Water Temp. (°C)	Temp. Difference Between Inlet & Outlet (°C)
5~15	2.5~8	16~35	3.5~8



Model		LSBLX1400-M		LSBLX1600-M		LSBLX1800-M		LSBLX2000-M		
		LSBLX1400-G		LSBLX1600-G		LSBLX1800-G		LSBLX2000-G		
Cooling capacity	kW	1400		1600		1800		2000		
	RT	398		456		511		568		
Cooling control						10~100				
EER	W/W	5.53		5.65		5.66		5.76		
	IPLV	6.30		6.43		6.44		6.56		
Motor	Power supply(-M)	V-Ph-Hz		380V-3Ph-50Hz		380V-3Ph-50Hz		380V-3Ph-50Hz		
	Power supply(-G)	V-Ph-Hz		10000V-3Ph-50Hz		10000V-3Ph-50Hz		10000V-3Ph-50Hz		
	Rated input	kW		253.0		283.0		318.0		
Refrigerant charge volume		kg		550		575		600		
Refrigerant oil	Category						No.68 synthetic fatty oil			
	Charge volume	L		60		60		60		
Evaporator	Type						Flooded Type Evaporator			
	Water flow volume	m³/h	240.84		275.04		309.96		344.16	
		GPM	1061.2		1210.9		1365.0		1514.7	
	Pressure drop	kPa	75		75		75		75	
		ft.WG	25.1		25.1		25.1		25.1	
	Number of pass		2		2		2		2	
Connection pipe		mm		200		200		250		
Condenser	Type						Shell and Tube			
	Water flow volume	m³/h	300.96		344.16		387		429.84	
		GPM	1325.4		1514.7		1704.1		1893.4	
	Pressure drop	kPa	70		70		70		70	
		ft.WG	23.4		23.4		23.4		23.4	
	Number of pass		2		2		2		2	
Connection pipe		mm		200		200		250		
Sound pressure level		dB(A)		≤88		≤88		≤88		
Outline dimension	Width	mm		4150		4150		4150		
	Depth	mm		1730		1730		1900		
	Height	mm		2150		2150		2250		
Weight	Net weight	kg		7500		7800		8800		
	Operating weight	kg		8250		8500		9800		



Model		LSBLX2200-M		LSBLX2400-M		LSBLX2600-M		LSBLX2800-M		
		LSBLX2200-G		LSBLX2400-G		LSBLX2600-G		LSBLX2800-G		
Cooling capacity	kW	2200		2400		2600		2800		
	RT	625		682		740		796		
Cooling control						10~100				
EER	W/W	5.82		5.74		5.80		5.89		
	IPLV	6.62		6.53		6.60		6.71		
Motor	Power supply(-M)	V-Ph-Hz		380V-3Ph-50Hz		380V-3Ph-50Hz		380V-3Ph-50Hz		
	Power supply(-G)	V-Ph-Hz		10000V-3Ph-50Hz		10000V-3Ph-50Hz		10000V-3Ph-50Hz		
	Rated input	kW		378.0		418.0		448.0		
Refrigerant charge volume		kg		650		700		725		
Refrigerant oil	Category						No.68 synthetic fatty oil			
	Charge volume	L		60		80		80		
Evaporator	Type						Flooded Type Evaporator			
	Water flow volume	m³/h	378		412.92		447.12		482.04	
		GPM	1664.5		1818.6		1968.3		2122.4	
	Pressure drop	kPa	75		90		90		90	
		ft.WG	25.1		30.1		30.1		30.1	
	Number of pass		2		2		2		2	
Connection pipe		mm		250		250		250		
Condenser	Type						Shell and Tube			
	Water flow volume	m³/h	473.04		515.88		559.08		601.92	
		GPM	2082.8		2272.1		2461.5		2650.8	
	Pressure drop	kPa	70		85		85		85	
		ft.WG	23.4		28.5		28.5		28.5	
	Number of pass		2		2		2		2	
Connection pipe		mm		250		250		250		
Sound pressure level		dB(A)		≤90		≤90		≤90		
Outline dimension	Width	mm		4150		4530		4530		
	Depth	mm		1900		2070		2070		
	Height	mm		2250		2500		2500		
Weight	Net weight	kg		9400		10800		11200		
	Operating weight	kg		10600		12800		13000		



Model			LSBLX3000-M	LSBLX3200-M	LSBLX3400-M	LSBLX3600-M
			LSBLX3000-G	LSBLX3200-G	LSBLX3400-G	LSBLX3600-G
Cooling capacity	kW		3000	3200	3400	3600
	RT		854	909	967	1023
Cooling control	%		10~100			
EER	W/W		5.77	5.83	5.93	5.91
IPLV	W/W		6.57	6.63	6.75	6.73
Motor	Power supply(-M)	V-Ph-Hz	380V-3Ph-50Hz			
	Power supply(-G)	V-Ph-Hz	10000V-3Ph-50Hz			
	Rated input	kW	520.0	549.0	573.0	609.0
Refrigerant charge volume		kg	775	800	825	900
Refrigerant oil	Category		No.68 synthetic fatty oil			
	Charge volume	L	80	80	80	100
Evaporator	Type		Flooded Type Evaporator			
	Water flow volume	m³/h	515.88	550.08	585	618.84
		GPM	2272.1	2421.8	2576.0	2725.7
	Pressure drop	kPa	90	90	90	115
		ft.WG	30.1	30.1	30.1	38.5
	Number of pass		2	2	2	2
Connection pipe		mm	300	300	300	300
Condenser	Type		Shell and Tube			
	Water flow volume	m³/h	645.12	687.96	731.16	774
		GPM	2840.2	3029.5	3218.8	3408.2
	Pressure drop	kPa	85	85	85	100
		ft.WG	28.5	28.5	28.5	33.5
	Number of pass		2	2	2	2
Connection pipe		mm	300	300	300	350
Sound pressure level		dB(A)	≤90	≤92	≤92	≤92
Outline dimension	Width	mm	4530	4530	4530	4750
	Depth	mm	2120	2120	2120	2330
	Height	mm	2500	2500	2500	2750
Weight	Net weight	kg	11800	12000	12200	14600
	Operating weight	kg	13500	14000	14500	16500



Model			LSBLX3800-M	LSBLX4000-M	LSBLX4400-M
			LSBLX3800-G	LSBLX4000-G	LSBLX4400-G
Cooling capacity	kW		3800	4000	4400
	RT		1081	1136	1251
Cooling control	%		10~100		
EER	W/W		5.96	6.05	6.04
IPLV	W/W		6.78	6.89	6.87
Motor	Power supply(-M)	V-Ph-Hz	380V-3Ph-50Hz		
	Power supply(-G)	V-Ph-Hz	10000V-3Ph-50Hz		
	Rated input	kW	638.0	661.0	729.0
Refrigerant charge volume		kg	925	950	1000
Refrigerant oil	Category		No.68 synthetic fatty oil		
	Charge volume	L	100	100	100
Evaporator	Type		Flooded Type Evaporator		
	Water flow volume	m³/h	654.12	687.96	757.08
		GPM	2879.8	3029.5	3333.3
	Pressure drop	kPa	115	115	115
		ft.WG	38.5	38.5	38.5
	Number of pass		2	2	2
Connection pipe		mm	300	300	350
Condenser	Type		Shell and Tube		
	Water flow volume	m³/h	816.84	860.04	946.08
		GPM	3597.5	3786.9	4165.6
	Pressure drop	kPa	100	100	105
		ft.WG	33.5	33.5	35.2
	Number of pass		2	2	2
Connection pipe		mm	350	350	350
Sound pressure level		dB(A)	≤92	≤92	≤92
Outline dimension	Width	mm	4750	4750	4750
	Depth	mm	2330	2330	2480
	Height	mm	2750	2750	2750
Weight	Net weight	kg	14800	15200	15800
	Operating weight	kg	17000	17500	18000



Model		LSBLX4800-G	LSBLX5200-G	
Cooling capacity	kW	4800	5200	
	RT	1364	1479	
Cooling control	%	10~100		
EER	W/W	6.06	6.10	
IPLV	W/W	6.90	6.94	
Motor	Power supply(-G)	V-Ph-Hz		
	Rated input	792.0	853.0	
Refrigerant charge volume	kg	1050	1100	
Refrigerant oil	Category	No.68 synthetic fatty oil		
	Charge volume	L	100	
Evaporator	Type	Flooded Type Evaporator		
	Water flow volume	m ³ /h	825.84	893.88
		GPM	3637.2	3936.6
	Pressure drop	kPa	115	115
		ft.WG	38.5	38.5
Number of pass		2	2	
Connection pipe	mm	350		
Condenser	Type	Shell and Tube		
	Water flow volume	m ³ /h	1032.12	1118.16
		GPM	4544.2	4922.9
	Pressure drop	kPa	105	105
		ft.WG	35.2	35.2
Number of pass		2	2	
Connection pipe	mm	350		
Sound pressure level	dB(A)	≤95		
Outline dimension	Width	4750	4750	
	Depth	2480	2480	
	Height	2750	2750	
Weight	Net weight	16200	16600	
	Operating weight	18500	19000	

Two-stage

Model		LSBLX5600S-G	LSBLX6000S-G	LSBLX6400S-G	LSBLX6800S-G	LSBLX7200S-G	
Cooling capacity	kW	5600	6000	6400	6800	7200	
	RT	1591	1706	1818	1934	2044	
Cooling control	%	10~100					
EER	W/W	5.96	6.01	6.14	6.04	6.13	
IPLV	W/W	6.78	6.84	6.99	6.88	6.97	
Motor	Power supply(-G)	V-Ph-Hz					
	Rated input	940.0	998.0	1042.0	1125.0	1175.0	
Refrigerant charge volume	kg	1150	1200	1250	1300	1400	
Refrigerant oil	Category	No.68 synthetic fatty oil					
	Charge volume	L	125	125	125	125	125
Evaporator	Type	Flooded Type Evaporator					
	Water flow volume	m ³ /h	963	1032.12	1100.88	1170	1238.04
		GPM	4240.4	4544.2	4848.1	5151.9	5451.3
	Pressure drop	kPa	125	125	125	125	125
		ft.WG	41.9	41.9	41.9	41.9	41.9
Number of pass		2	2	2	2	2	
Connection pipe	mm	350	350	400	400	400	
Condenser	Type	Shell and Tube					
	Water flow volume	m ³ /h	1203.84	1289.88	1375.92	1461.96	1548
		GPM	5301.6	5680.3	6059.0	6437.7	6816.4
	Pressure drop	kPa	125	125	125	125	125
		ft.WG	41.9	41.9	41.9	41.9	41.9
Number of pass		2	2	2	2	2	
Connection pipe	mm	400	400	450	450	450	
Sound pressure level	dB(A)	≤95	≤95	≤95	≤95	≤95	
Outline dimension	Width	5350	5350	5350	5350	5350	
	Depth	2620	2620	2820	2820	2820	
	Height	3100	3100	3100	3100	3100	
Weight	Net weight	22500	23800	25500	26100	26500	
	Operating weight	25500	27100	29000	29700	30500	





Chiller



Modular Air-Cooled Screw Chiller

R134a



230kW
65TR



350kW
100TR



430kW
122TR



Modular air-cooled screw chiller is a kind of refrigerant equipment which supplies chilled water. The unit can combine with packaged AHU and hydronic AHU and other AHU terminals into large-scale central air conditioning system. It is widely used in new or reconstructed civil or industrial buildings, or used to supply the required chilled water used in manufacturing process.

- ◇ Environmentally friendly refrigerant: The R134a, whose ODP(Ozone Depletion Potential) value is 0, is an environmentally friendly refrigerant. It does no harm to Ozone completely, and there is no limitation on use of it.
- ◇ Running in atrocious weather: Applicable to multifarious atrocious weather, the units can reliably operate in a wide temperature range, from 18 to 52 degrees centigrade.



- ◇ Modularization: the patented design of that any unitary module can be as master module, makes various emergencies easy. up to 8 modular air cooled screw chillers can be combined to get a max. 3440KW output.
- ◇ High efficiency: the new generation of screw compressor with balanced load and high efficiency and helical twin screw with nearly 100,000-hour lifetime can efficiently avoid leakage and improve the compressing efficiency.
- ◇ Energy saving: the combination of many unitary modules make the unloading capacity of unit fold increased, which totally matches the practical load.
- ◇ Quiet running and long life: the double-shaft of the compressor is accurately located by axial direction and radial of rolling.
- ◇ High reliability: it adopts perfect service parts, strict control on each manufacturing procedure and strict test to each ongoing product in performance to ensure quality and performance, moreover, reliable motor-cooling technology and oil return technology for refrigerant system ensure the compressor running in well conditions.
- ◇ Long-distance monitoring: all the functions of manual controller owned by the unit can be displayed in the computer so that there is no necessary to monitor or control the units in computer room.



Modular structure



Diagnosis displaying



Wired controller

Operating Condition of Nominal Cooling

Item	Water Side		Air Side	
	Inlet Water Temp.(°C)	Outlet Water Temp.(°C)	DB Temp.(°C)	WB Temp.(°C)
Cooling	12	7	35	-

Operating Range

Item	Water Side		Air Side
	Outlet Water Temp.(°C)	Temp. Difference Between Inlet&Outlet(°C)	DB Temp. (°C)
Cooling	5~15	2.5~8	18~52



Model			LSBLGF230MT3/Nb-M	LSBLGF350MT3/Nb-M	LSBLGF430MT3/Nb-M
Cooling capacity	kW		230	350	430
	TR		65	100	122
Capacity control	%		25%-50%-75%-100%		
EER	W/W		2.88	2.80	2.83
Power supply	V-Ph-Hz		380V-3Ph-50Hz		
Power input	kW		80	125	152
Water side heat exchanger	Type		Shell and Tube Evaporator		
	Water flow volume	m³/h	39.6	60.2	74
		GPM	174	265	326
	Pressure drop	kPa	≤50		
Connection pipe	mm	DN100	DN100	DN125	
Air side heat exchanger	Heat exchanger type		Finned Coil Type Condenser		
	Fan type/Number of fans		Axial fan/4	Axial fan/6	Axial fan/8
	Total fan air flow	m³/h	10×10 ⁴	15×10 ⁴	20×10 ⁴
		CFM	5.9×10 ⁴	8.8×10 ⁴	11.8×10 ⁴
Total fan motor power	kW	4×2.0	6×2.0	8×2.0	
Sound pressure level	dB(A)	78	79	80	
Dimension	Outline(W×D×H)	mm	3150×2100×2300	4330×2100×2300	5250×2100×2300
	Package(W×D×H)	mm	3230×2180×2300	4410×2180×2300	5330×2180×2300
Weight	Net weight	kg	3110	4600	5330
Loading quantity	2ØGP		0	0	0
	4ØGP		0	0	0
	4ØHQ		3	2	2

Notice: The operating weight of the unit is equal to 110% of net weight of the unit.



Chiller

Mini-chiller R410A



8kW



10kW/15kW



22kW/25kW



35kW/45kW

The mini chiller supplies chilled /hot water to indoor fan coil to realize the air conditioning purpose. It is used in the hotel, restaurant, office, villa, etc.



- ◇ Flexible installation thanks to slope up air discharge structure.
- ◇ Water pump.
- ◇ Expansion vessel.
- ◇ Safety valve, auto water replenishing valve, auto air evacuation valve.
- ◇ Detached cooler/heater design, which make installation more flexible
- ◇ Compact design, the height the cooler/heater is only 288mm(split type)
- ◇ Wide operation range of heat mode in cold season, thanks to the cooler/heater which can be installed in indoor ceiling void to avoid freezing problem



Memory function



Two circuits



Quiet design



Item	Water Side				Air Side		
	Nominal Operating		Operating Range		Nominal Operating Condition		Operating Tange
	Inlet Water Temp.(°C)	Outlet Water Temp.(°C)	Outlet Water Temp.(°C)	Temp.Difference Between Inlet&Outlet(°C)	Outdoor Temp. (DB°C)	Outdoor Temp. (WB°C)	Outdoor Temp. (DB°C)
Cooling	12	7	7~12	3~8	35	-	16~48
Heating	40	45	45~50	3~8	7	6	-15~28



Integral Type

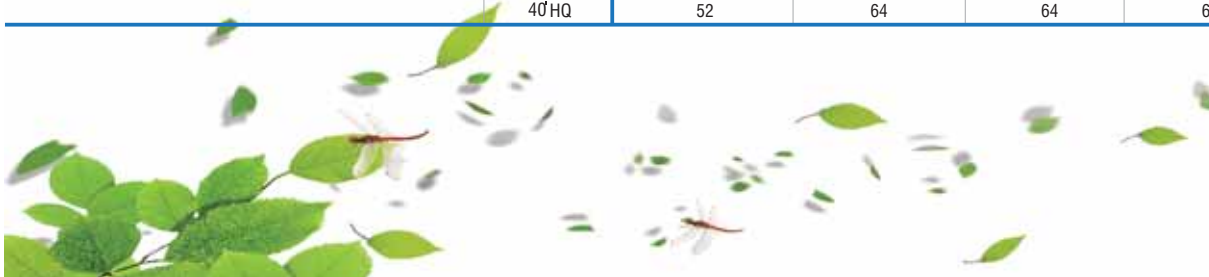


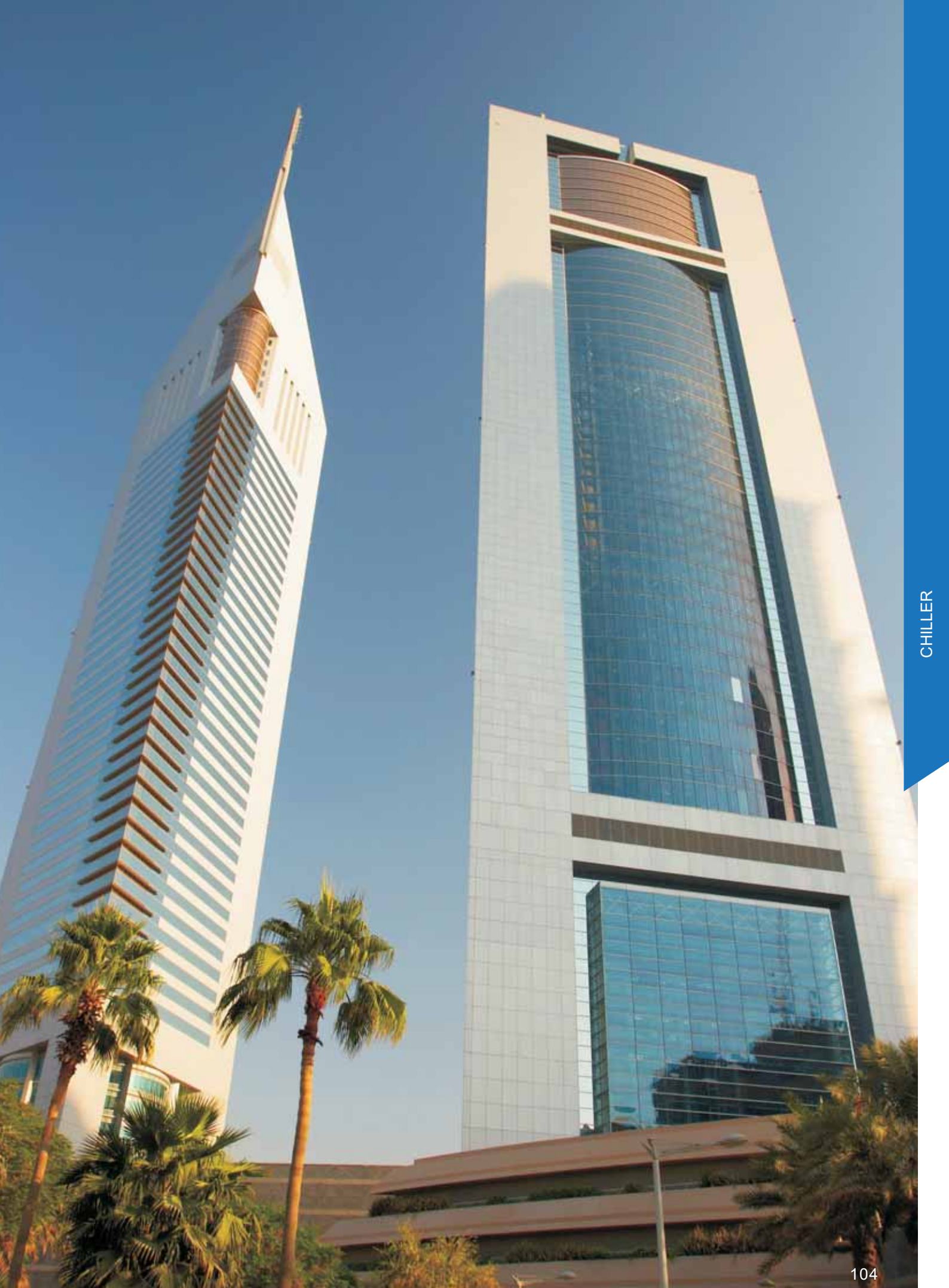
Model	Heating pump		HLR22SNa-M	HLR25SNa-M	HLR35SNa-M	HLR45SNa-M
Capacity	Cooling	kW	21.5	22.8	31	42
	Heating	kW	25	25	37.5	49
EER		W/W	2.5	2.6	2.6	2.3
COP		W/W	2.9	2.8	3.00	2.8
Power supply		V-Ph-Hz	380-415V-3Ph-50Hz			
Power input	Cooling	kW	8.6	8.8	11.9	18.3
	Heating	kW	8.6	8.9	12.5	17.5
Compressor quantity		Unit	2	2	2	2
Refrigerant charge volume		kg	3.6×2	4.8×2	6.5×2	7.8×2
Build-in chilled water pump	Water flow volume	m ³ /h	3.3	4.3	5.0	7.9
		GPM	12.1	15.8	18	29
	Head of delivery	m	22	24	25	27
	Power input	W	750	750	1500	1500
Build-in expansion tank volume		L	8	8	8	8
Chilled water outlet/inlet dimension		inch	1	1	1-1/2	1-1/2
Dimension	Outline (L×W×H)	mm	1460×530×1850	1460×530×1850	1750×800×1760	1750×800×1760
	Package (L×W×H)	mm	1540×610×2100	1540×610×2100	1910×960×1970	1910×960×1970
Net weight		kg	370	390	680	755
Gross weight		kg	380	400	690	765
Sound pressure level		dB(A)	66	66	68	68
Loading quantity		2Ø GP	12	12	6	12
		4Ø GP	25	25	13	25
		4Ø HQ	25	25	13	25

Split Type



Model	Heating pump		HLR8WZNa-M	HLR10WZNa-M	HLR12.5WZNa-M	HLR15WZNa-M
Capacity	Cooling	kW	7.5	10	12.5	14.2
	Heating	kW	9	12	13	16.5
EER		W/W	2.1	2.2	2.2	2.5
COP		W/W	2.7	2.7	2.7	3.1
Power supply		V-Ph-Hz	380-415V-3Ph-50Hz			
Power input	Cooling	kW	3.5	4.4	5.7	5.7
	Heating	kW	3.3	4.4	4.8	5.3
Compressor quantity		Unit	1	1	1	1
Refrigerant charge volume		kg	3.1	3.55	4.5	5.5
Build-in chilled water pump	Water flow volume	m ³ /h	1.4	1.7	2.1	2.6
		GPM	5.0	6.3	7.79	9.5
	Head of delivery	m	18	18	18	18
	Power input	W	550	550	550	550
Build-in expansion tank volume		L	5	5	5	5
Chilled water outlet/inlet dimension		inch	1	1	1	1
Indoor unit	Outline dimension (W×D×H)	mm	1100×450×288	1100×450×288	1100×450×288	1100×450×288
	Packaged dimension (W×D×H)	mm	1285×682×385	1285×682×385	1285×682×385	1285×682×385
	Net weight	kg	84	84	84	84
	Gross weight	kg	96	96	96	96
	Sound pressure level	dB(A)	38	38	38	38
Outdoor unit	Outline dimension (W×D×H)	mm	950×412×840	950×412×1250	950×412×1250	950×412×1250
	Package dimension (W×D×H)	mm	1100×450×985	1110×450×1385	1110×450×1385	1260×450×1385
	Net weight	kg	90	112	115	123
	Gross weight	kg	100	123	126	134
Connection pipe	Liquid	inch	1/2	1/2	1/2	1/2
		inch	3/4	3/4	3/4	3/4
	Gas	inch	3/4	3/4	3/4	3/4
Loading quantity		2Ø GP	25	30	30	30
		4Ø GP	52	63	63	63
		4Ø HQ	52	64	64	64







Terminal

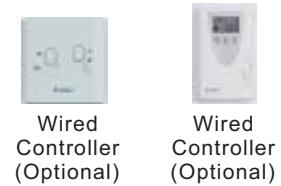


Fan Coil Unit

▶ Concealed Ceiling Type



80CFM~2000CFM



▶ With low-weight plastic housing propeller and high efficiency centrifugal fan, the unit has high efficiency. The unit can be equipped with 3-speed thermostat which is easy to use. Only leaving air outlet, air inlet and service port, the unit is generally installed in the ceiling to match with decoration of the hotel, villa and office.



- ◇ Excellent outside condensate-water proof performance thanks to compression-moulding chassis with integrated heat-insulating material.
- ◇ Slim design.
- ◇ Low noise
- ◇ Hot galvanized steel case.
- ◇ Various type of controller available (optional)
- ◇ 3 way valve (optional).
- ◇ Long lifespan and washable filter with air return box.(optional)
- ◇ Three kinds of wired remote control available (optional)
- ◇ Light weight and air volume thanks to plastic fan structure.
- ◇ 3-speed fan for optimum comfort.



For 50Hz units only

Nominal Test Condition

Item	DB Temperature(°C)	WB Temperature(°C)	Inlet Temperature (°C)	Outlet Temperature (°C)
Cooling	27	19	7	12
Heating	21	-	60	-



2 rows/Standard Type

Model			FP-34WA-K	FP-51WA-K	FP-68WA-K	FP-85WA-K	FP-102WA-K	FP-136WA-K	FP-170WA-K	FP-204WA-K
Air flow volume	High	CFM	200	300	400	500	600	800	1000	1200
	Medium	CFM	146	232	291	375	464	644	750	926
	Low	CFM	125	155	194	250	309	429	500	618
External statics pressure		Pa	12							
Capacity	Cooling	kW	1.85	2.8	3.6	4.5	5.5	7.35	9.2	11
	Heating	kW	3.05	4.4	5.5	7	8.9	11	14	17
Power system	Type	V-Ph-Hz	220-240V-1PH-50Hz							
	Input(Standard)	W	37	45	62	70	96	120	145	185
Water system	Water flow volume	m ³ /h	0.36	0.51	0.62	0.77	0.97	1.23	1.62	1.8
		l/s	0.1	0.14	0.17	0.21	0.27	0.6	0.45	0.5
	Pressure drop	kPa	12	21	16	23	36	38	38	40
Sound pressure level (standard)		dB(A)	35	38	40	42	44	46	48	50
Connection pipe size	Water inlet & outlet pipe	inch	3/4"(inner groove)							
	Condensing water drain pipe	inch	3/4"(outer groove)							
Outline dimension (W×D×H)		mm	881×510×245	1011×510×245	1131×510×245	1211×510×245		1761×510×245		
Package dimension (W×D×H)		mm	900×560×275	1030×560×275	1150×560×275	1230×560×275		1780×560×275		
Net weight		kg	14	15	16.5	18	19	28.5	34	35
Gross weight		kg	17	19.5	21	22	24	35	39	40
Loading quantity	40'GP		448	447	344	316	316	220	220	220
	40'HQ		490	482	386	355	355	247	247	247
Optional parts	Wireless remote controller		-							
	Wired remote controller		Luxury wired controller:WK-010PA-K; LCD controller: WK-110PA0							
	Air return box (without filter)		HF41	HF42	HF43	HF44	HF44	HF46	HF46	HF46
	Air return box (with filter)		HF31	HF32	HF33	HF34	HF34	HF36	HF36	HF36

2 rows/High ESP Type

Model			FP-34WAH-K	FP-51WAH-K	FP-68WAH-K	FP-85WAH-K	FP-102WAH-K	FP-136WAH-K	FP-170WAH-K	FP-204WAH-K
Air flow volume	High	CFM	200	300	400	500	600	800	1000	1200
	Medium	CFM	146	232	291	375	464	644	750	926
	Low	CFM	125	155	194	250	309	429	500	618
External statics pressure		Pa	30							
Capacity	Cooling	kW	1.85	2.8	3.6	4.5	5.5	7.35	9.2	11
	Heating	kW	3.05	4.4	5.5	7	8.9	11	14	17
Power system	Type	V-Ph-Hz	220-240V-1PH-50Hz							
	Input(High statics)	W	42	55	68	80	102	140	158	195
Water system	Water flow volume	m ³ /h	0.36	0.51	0.62	0.76	0.97	1.23	1.62	1.8
		l/s	0.1	0.14	0.17	0.21	0.27	0.6	0.45	0.5
	Pressure drop	kPa	12	21	16	23	36	38	38	40
Sound pressure level (standard)		dB(A)	38	40	42	44	46	47	49	52
Connection pipe size	Water inlet & outlet pipe	inch	3/4"(inner groove)							
	Condensing water drain pipe	inch	3/4"(outer groove)							
Outline dimension (W×D×H)		mm	881×510×245	1011×510×245	1131×510×245	1211×510×245		1761×510×245		
Package dimension (W×D×H)		mm	900×560×275	1030×560×275	1150×560×275	1230×560×275		1780×560×275		
Net weight		kg	14	15	16.5	18	19	28.5	34	35
Gross weight		kg	17	19.5	21	22	24	35	39	40
Loading quantity	40'GP		448	447	344	316	316	220	220	220
	40'HQ		490	482	386	355	355	247	247	247
Optional parts	Wireless remote controller		-							
	Wired remote controller		Luxury wired controller:WK-010PA-K; LCD controller: WK-110PA0							
	Air return box (without filter)		HF41	HF42	HF43	HF44	HF44	HF46	HF46	HF46
	Air return box (with filter)		HF31	HF32	HF33	HF34	HF34	HF36	HF36	HF36



Model			FP-34WAS-R	FP-51WAS-R	FP-68WAS-R	FP-85WAS-R	FP-102WAS-R	FP-136WAS-R
Air flow volume	High	CFM	200	300	400	500	600	800
	Medium	CFM	146	232	291	375	464	644
	Low	CFM	125	155	194	250	309	429
External statics pressure		Pa	30					
Capacity	Cooling	kW	2.19	3.37	4.28	5.04	6.46	8.17
	Heating	kW	3.29	5.06	6.42	7.56	9.7	10.9
Power system	Type	V-Ph-Hz	220V-240-1Ph-50Hz					
	Input	W	44	59	72	87	108	156
Water system	Water flow volume	m ³ /h	0.396	0.61	0.775	0.912	1.169	1.325
	Pressure drop	kPa	10	15	25	30	40	20
Sound pressure level		dB(A)	38	40	42	44	46	47
Connection pipe size	Water inlet & outlet pipe	inch	3/4"(inner groove)					
	Condensing water drain pipe	inch	3/4"(outer groove)					
Outline dimension (W×D×H)		mm	881×510×245	1011×510×245	1131×510×245	1211×510×245	1371×510×245	1761×510×245
Package dimension (W×D×H)		mm	900×560×275	1030×560×275	1150×560×275	1230×560×275	1390×560×275	1780×560×275
Net weight		kg	15	16	18	19.5	21	30
Gross weight		kg	19	20.5	23	24.5	26	35
Loading quantity	40'GP		448	392	344	316	268	220
	40'HQ		490	434	386	355	301	247
Optional parts	Wireless remote controller		-					
	Wired remote controller		Luxury wired controller:WK-010PA-K;LCD Controller WK-110PA					
	Air return box (without filter)		HF41	HF42	HF43	HF44	HF45	HF46
	Air return box (with filter)		HF31	HF32	HF33	HF34	HF35	HF36

Model			FP-170WAS-R	FP-204WAS-R	FP-238WAS-R	FP-272WAS-R	FP-306WAS-R	FP-340WAS-R
Air flow volume	High	CFM	1000	1200	1400	1600	1800	2000
	Medium	CFM	750	926	971	1235	1006	1400
	Low	CFM	500	618	729	868	674	812
External statics pressure		Pa	30					
Capacity	Cooling	kW	11.4	12.16	12.4	13.5	16	17
	Heating	kW	18.2	18.55	19.5	21.3	24.8	26.1
Power system	Type	V-Ph-Hz	220V-240-1Ph-50Hz					
	Input	W	174	212	380	475	535	640
Water system	Water flow volume	m ³ /h	1.994	2.064	2.64	2.29	2.67	2.86
	Pressure drop	kPa	38	45	21.9	27.9	37.5	41.2
Sound pressure level		dB(A)	49	52	56	59	62	63
Connection pipe size	Water inlet & outlet pipe	inch	3/4"(inner groove)			1"(inner groove)		
	Condensing water drain pipe	inch	3/4"(outer groove)					
Outline dimension (W×D×H)		mm	1921×510×245	1921×510×245	1671×595×354	1671×595×354	1921×595×354	1921×595×354
Package dimension (W×D×H)		mm	1940×560×275	1940×560×275	1750×650×380	1750×650×380	1950×650×380	1950×650×380
Net weight		kg	33	24	48	48	52	52
Gross weight		kg	38.5	39.5	55	55	60	60
Loading quantity	40'GP		196	196	140	140	130	130
	40'HQ		220	220	166	166	153	153
Optional parts	Wireless remote controller		-					
	Wired remote controller		Luxury wired controller:WK-010PA-K;LCD Controller WK-110PA					
	Air return box (without filter)		HF47	HF47	-	-	-	-
	Air return box (with filter)		HF37	HF37	HF28	HF28	HF29	HF29



Model			FP-34WAF-R	FP-51WAF-R	FP-68WAF-R	FP-85WAF-R	FP-102WAF-R	FP-136WAF-R
Air flow volume	High	CFM	188	289	383	477	571	760
	Medium	CFM	156	259	324	368	507	616
	Low	CFM	80	186	207	242	395	424
External statics pressure		Pa	30					
Capacity	Cooling	kW	2.11	3.82	4.85	5.71	7.32	9.26
	Heating	kW	3.7	5.7	7.2	8.5	10.9	13.8
Power system	Type	V-Ph-Hz	220V-240-1Ph-50Hz					
	Input	W	44	59	80	87	108	156
Water system	Water flow volume	m ³ /h	0.39	0.67	0.87	1.1	1.26	1.54
	Pressure drop	kPa	15	7.8	9.7	23.3	35.5	16.4
Sound pressure level		dB(A)	40	42	44	47	49	50
Connection pipe size	Water inlet & outlet pipe	inch	3/4"(inner groove)					
	Condensing water drain pipe	inch	3/4"(outer groove)					
Outline dimension (W×D×H)		mm	881×510×245	1011×510×245	1131×510×245	1211×510×245	1371×510×245	1761×510×245
Package dimension (W×D×H)		mm	900×560×275	1030×560×275	1150×560×275	1230×560×275	1390×560×275	1780×560×275
Net weight		kg	14.4	17.2	19.2	20.5	23.2	34.2
Gross weight		kg	18.9	21.9	24.1	25.6	28.7	40.5
Loading quantity	40'GP		448	392	344	316	268	220
	40'HQ		490	434	386	355	301	247
Optional Parts	Wireless remote controller		-					
	Wired remote controller		Luxury wired controller:WK-010PA-K;LCD Controller WK-110PA					
	Air return box (without filter)		HF41	HF42	HF43	HF44	HF45	HF46
	Air return box (with filter)		HF31	HF32	HF33	HF34	HF35	HF36

Model			FP-170WAF-R	FP-204WAF-R	FP-238WAF-R	FP-272WAF-R	FP-306WAF-R	FP-340WAF-R
Air flow volume	High	CFM	948	1043	1400	1600	1800	2000
	Medium	CFM	750	926	971	1235	1006	1400
	Low	CFM	500	618	729	868	674	812
External statics pressure		Pa	30					
Capacity	Cooling	kW	11.4	12.16	14.28	16	18.7	19.8
	Heating	kW	18.2	20.6	21.42	24	20.05	29.7
Power system	Type	V-Ph-Hz	220V-240-1Ph-50Hz					
	Input	W	174	212	380	475	535	640
Water system	Water flow volume	m ³ /h	1.83	2.08	2.80	3.20	3.60	4.06
	Pressure drop	kPa	23.9	31.5	29.2	21.7	26.2	32.5
Sound pressure level		dB(A)	51	52	56	58	60	61
Connection pipe size	Water inlet & outlet pipe	inch	3/4"(inner groove)			1"(inner groove)		
	Condensing water drain pipe	inch	3/4"(outer groove)					
Outline dimension (W×D×H)		mm	1921×510×245			1671×595×354		1921×595×354
Package dimension (W×D×H)		mm	1940×560×275			1750×650×380		1950×650×380
Net weight		kg	37.5			52	59	
Gross weight		kg	44			60	66	
Loading quantity	40'GP		196			140	130	
	40'HQ		220			166	153	
Optional parts	Wireless remote controller		-					
	Wired remote controller		Luxury wired controller:WK-010PA-K;LCD Controller WK-110PA					
	Air return box (without filter)		HF47			-		-
	Air return box (with filter)		HF37			HF28		HF29



Model			FP-34WAT-R	FP-51WAT-R	FP-68WAT-R	FP-85WAT-R	FP-102WAT-R	FP-136WAT-R
Air flow volume	High	CFM	188	289	383	477	571	760
	Medium	CFM	156	259	324	368	507	616
	Low	CFM	80	186	207	242	395	424
External statics pressure		In-Wg/Pa	30					
Capacity	Cooling	kW	1.95	3.07	3.88	4.55	5.82	7.35
	Heating 1rowheat coil	kW	1.76	2.49	3.17	3.83	4.85	6.69
Power system	Type	V-Ph-Hz	220V-240-1Ph-50Hz					
	Input	W	44	59	80	87	108	156
Water system	Water flow volume	m ³ /h	0.39	0.61	0.75	1.04	1.15	1.4
	Pressure drop	kPa	10.6	23.3	18.2	38	56.5	16.8
Sound pressure level		dB(A)	40	42	44	47	49	50
Connection pipe size	Water inlet & outlet pipe	inch	3/4"(inner groove)					
	Condensing water drain pipe	inch	3/4"(outer groove)					
Outline dimension (W×D×H)		mm	881×510×245	1011×510×245	1131×510×245	1211×510×245	1371×510×245	1761×510×245
Package dimension (W×D×H)		mm	900×560×275	1030×560×275	1150×560×275	1230×560×275	1390×560×275	1780×560×275
Net weight		kg	14.4	17.2	19.2	20.5	23.2	34.2
Gross weight		kg	18.9	21.9	24.1	25.6	28.7	40.5
Loading quantity	40'GP		448	392	344	316	268	220
	40'HQ		490	434	386	355	301	247
Optional parts	Wireless remote controller		-					
	Wired remote controller		Luxury wired controller:WK-010PA-K;LCD Controller WK-110PA					
	Air return box (without filter)		HF41	HF42	HF43	HF44	HF45	HF46
	Air return box (with filter)		HF31	HF32	HF33	HF34	HF35	HF36

Model			FP-170WAT-R	FP-204WAT-R	FP-238WAT-R	FP-272WAT-R	FP-306WAT-R	FP-340WAT-R
Air flow volume	High	CFM	948	1043	1400	1600	1800	2000
	Medium	CFM	836	786	970	1235	1006	1400
	Low	CFM	645	754	729	867	674	812
External statics pressure		Pa	30					
Capacity	Cooling	kW	9.65	10.96	12.35	13.49	15.67	16.53
	Heating 1rowheat coil	kW	7	8.85	12.97	14.165	16.46	17.36
Power system	Type	V-Ph-Hz	220V-240-1Ph-50Hz					
	Input	W	174	212	380	475	535	640
Water system	Water flow volume	m ³ /h	1.83	2.08	2.08	2.8	3.22	4.06
	Pressure drop	kPa	23.9	31.5	31.5	29.2	21.7	32.5
Sound pressure level		dB(A)	51	52	56	58	60	61
Connection pipe size	Water inlet & outlet pipe	inch	3/4"(inner groove)			1"(inner groove)		
	Condensing water drain pipe	inch	3/4"(outer groove)					
Outline dimension (W×D×H)		mm	1921×510×245		1671×595×354		1921×595×354	
Package dimension (W×D×H)		mm	1940×560×275		1750×650×380		1950×650×380	
Net weight		kg	37.5		52		59	
Gross weight		kg	44		60		66	
Loading quantity	40'GP		196		140		130	
	40'HQ		220		166		153	
Optional parts	Wireless remote controller		-					
	Wired remote controller		Luxury wired controller:WK-010PA-K;LCD Controller WK-110PA					
	Air return box (without filter)		HF47		-		-	
	Air return box (with filter)		HF37		HF28		HF29	



Cassette Type



206CFM~1059CFM



Wired
Controller
(optional)



Wireless
Controller
(standard)

Controlled by microcomputer, the unit can automatically adjust the fan speed according to room temperature to meet different requirements. With non-metal and slim body, the unit is widely used in the office, hotel and villa.



- ◇ Compact and light weight.
- ◇ Low noise.
- ◇ Wired remote control available (optional).
- ◇ Wireless remote control fitted as standard.
- ◇ Long lifespan and washable filter.
- ◇ Water pump fitted as standard
- ◇ Light weight and high volume thanks to plastic fan structure.
- ◇ 3-speed fan for optimum comfort.



Compact design



Quiet design



Long life and washable filter



Light weight



For 50Hz units only

Nominal Test Condition

Item	DB Temperature(°C)	WB Temperature(°C)	Inlet Temperature (°C)	Outlet Temperature (°C)
Cooling	27	19	7	12
Heating	21	-	60	-

Model			FP-51XD-E	FP-68XD-E	FP-8XD-E	FP-10XD-E
Power system	Type	V-Ph-Hz	220-230V-1Ph-50Hz			
	Input	W	43.9/36.6	49.4/41.6	100	100
Air flow volume	High	CFM	300	371	500	600
	Medium	CFM	247	318	375	464
	Low	CFM	206	265	303	363
Capacity	Cooling	kW	2.8	3.5	4.64	5.4
	Heating	kW	3.9	4.6	7.5	9.1
Electric heater rated power		W	-	-	1400	1400
Water system	Water flow volume	m³/h	0.490	0.616	0.81	0.95
	Pressure drop	kPa	5	9	15	25
Sound pressure level		dB(A)	43	48	46	
Connection pipe size	Water inlet & outlet pipe	inch	3/4"			
	Condensing water drain pipe	inch	3/4"			
Outline dimension (W×D×H)	Body	mm	600×230×600		840×240×840	
	Panel	mm	650×50×650		960×60×960	
Package dimension (W×D×H)	Body	mm	848×310×678		960×310×960	
	Panel	mm	730×102×670		1025×115×1040	
Net weight	Body	kg	19.3		30	
	Panel	kg	5		6.5	
Gross weight	Body	kg	27		38	
	Panel	kg	6		10	
Loading quantity		40'GP	216		116	
		40'HQ	256		133	
Standard controller	Wireless remote controller		Y512			
Optional parts	Wired remote controller		Luxury wired controller: Z5K351			

Model			FP-12.5XD-E	FP-14XD-E	FP-16XD-E	FP-18XD-E
Power system	Type	V-Ph-Hz	220-230V-1Ph-50Hz			
	Input	W	150	140	160	155
Air flow volume	High	CFM	735	841	965	1059
	Medium	CFM	606	802	853	1035
	Low	CFM	538	705	781	932
Capacity	Cooling	kW	6.7	7.74	8.7	9.6
	Heating	kW	10.5	11.2	12.9	14.6
Electric heater rated power		W	1400	1400	1400	1400
Water system	Water flow volume	m ³ /h	1.18	1.36	1.53	1.68
	Pressure drop	kPa	25	29	23	21
Sound pressure level		dB(A)	47	51	53	54
Connection pipe size	Water inlet & outlet pipe	inch	3/4"			
	Condensing water drain pipe	inch	3/4"			
Outline dimension (W×D×H)	Body	mm	840×240×840	840×320×840		
	Panel	mm	960×60×960	960×60×960		
Package dimension (W×D×H)	Body	mm	960×310×960	960×394×960		
	Panel	mm	1025×115×1040	1025×115×1040		
Net weight	Body	kg	30	30		
	Panel	kg	6.5	6.5		
Gross weight	Body	kg	38	38		
	Panel	kg	10	10		
Loading quantity		40' GP	116	93		
		40'HQ	133	112		
Standard controller	Wireless remote controller		Y512			
Optional parts	Wired remote controller		Luxury wired controller: Z5K351			

▶ Wall Mounted Type



166CFM~500CFM



Wired Controller (optional)
Wireless Controller (standard)

▶ With cross flow fan, it features low noise, stable operation, high efficiency, good looking appearance, slim body and various operation modes to be selected. Furthermore, long distance monitoring and other control functions are available. It is widely used in office, hotel and villa.



- ◇ Compact and light weight.
- ◇ Low noise.
- ◇ Condensed water free
- ◇ Water pan is produced by moulding with heat preservation material wholly pressed, there is no bothering for condensed water.
- ◇ Wired remote control available(optional).
- ◇ Wireless remote control fitted as standard.
- ◇ Long lifespan and washable filter.
- ◇ Light weight and high volume thanks to plastic fan structure.
- ◇ 3-speed fan for optimum comfort.



Compact design



Quiet design



Long life and washable filter



Light weight



Nominal Test Condition

Item	DB Temperature(°C)	WB Temperature(°C)	Inlet Temperature (°C)	Outlet Temperature (°C)
Cooling	27	19.5	7	12
Heating	21	-	60	-

Standard Type

Model			FP-34BA2/A-K	FP-51BA2/A-K	FP-68BA2/A-K	FP-85BA2/A-K
Power system	Type	V-Ph-Hz	220-240V-1Ph-50Hz			
	Input	W	50	50	60	60
Air flow volume	High	CFM	212	324	400	500
	Medium	CFM	189	242	347	416
	Low	CFM	166	215	312	362
Capacity	Cooling	kW	2.1	2.7	3.6	4.2
	Heating	kW	3.15	4.05	5.4	6.3
Water system	Water flow volume	m³/h	0.4	0.45	0.6	0.7
	Pressure drop	kPa	13	24	44	45
Sound pressure level		dB(A)	35	40	43	48
Connection pipe size	Water inlet&outlet	inch	1/2"			
	Condensing water drain	mm	15.6			
Outline dimension (W×H×D)		mm	845×275×180		940×298×200	
Package dimension (W×H×D)		mm	915×355×255		1010×380×285	
Net weight		kg	11		13	
Gross weight		kg	14		17	
Loading quantity	40'GP		765		595	
	40'HQ		850		671	
Standard wireless remote controller			YB1FA		YB1FA	

With 3-way valve

Model			FP-51BWA2/A-K	FP-85BWA2/A-K
Power system	Type	V-Ph-Hz	220-240V-1Ph-50Hz	
	Input	W	50	60
Air flow volume	High	CFM	265	382
	Medium	CFM	225	329
	Low	CFM	190	288
Capacity	Cooling	kW	1.5	2.4
	Heating	kW	2.25	3.6
Water system	Water flow volume	m³/h	0.28	0.38
	Pressure drop	kPa	37	60
Sound pressure level		dB(A)	42	50
Connection pipe size	Water inlet&outlet	inch	1/2"	
	Condensing water drain	mm	15.6	
Outline dimension (W×H×D)		mm	845×275×180	
Package dimension (W×H×D)		mm	915×355×255	
Net weight		kg	11	
Gross weight		kg	14	
Loading quantity	40'GP		765	
	40'HQ		850	
Standard wireless remote controller			YB1FA	



▶ Floor Ceiling Type



125CFM~1200CFM



Wireless
Controller
(standard)

▶ It can be installed on the floor or under the ceiling. With the features of easy and flexible installation, wide range and long distance air supply, good performance, various control functions and slim body, it is especially applicable to the hotel office, meeting room with low space room.



- ◇ Slim design.
- ◇ Low noise.
- ◇ Plastic case.
- ◇ Long life and washable filter.
- ◇ 3-speed fan for optimum comfort.
- ◇ Light weight and high air volume thanks plastic fan structure.



Compact
design



Quiet design



Long life and
washable filter



Light weight



For 50Hz Units Only

Nominal Test Condition

Item	DB Temperature(°C)	WB Temperature(°C)	Inlet Temperature (°C)	Outlet Temperature (°C)
Cooling	27	19	7	12
Heating	21	—	60	—

Model			FP-34WM-K	FP-51WM-K	FP-68WM-K	FP-85WM-K
Power system	Type	V-Ph-Hz	220-240V-1Ph-50Hz			
	Input	W	40	40	62	77
Air flow volume	High	CFM	200	300	400	500
	Medium	CFM	146	232	291	375
	Low	CFM	125	155	194	250
Capacity	Cooling	kW	1.8	2.8	3.6	4.5
	Heating	kW	2.8	4.15	5.4	6.75
Water system	Water flow volume	m³/h	0.37	0.5	0.64	0.81
	Pressure drop	kPa	9.8	9.8	36.5	36.5
Sound pressure level		dB(A)	48	48	49	49
Connection pipe size	Water inlet & outlet pipe	inch	3/4"(inner groove)			
	Condensing water drain pipe	inch	3/4"(outer groove)			
Outline dimension (W×D×H)		mm	834×238×694	834×238×694	1300×188×600	
Package dimension (W×D×H)		mm	960×330×830	960×330×830	1414×248×724	
Net weight		kg	26	26	34	
Gross weight		kg	35	35	38	
Loading quantity	40'GP		224		220	
	40'HQ		267		244	
Standard controller			Wireless remote controller-Y512			

Model			FP-102WM-K	FP-136WM-K	FP-170WM-K	FP-204WM-K
Power system	Type	V-Ph-Hz	220-240V-1Ph-50Hz			
	Input	W	99	162	240	275
Air flow volume	High	CFM	600	800	1000	1200
	Medium	CFM	464	644	750	926
	Low	CFM	309	429	500	618
Capacity	Cooling	kW	5.4	7.2	9.0	10.8
	Heating	kW	8.1	10.8	13.5	16.2
Water system	Water flow volume	m ³ /h	0.94	1.32	1.52	1.97
	Pressure drop	kPa	30.8	34.8	38.4	42.8
Sound pressure level		dB(A)	49	51	52	55
Connection pipe size	Water inlet & outlet pipe	inch	3/4"(inner groove)			
	Condensing water drain	inch	3/4"(outer groove)			
Outline dimension (W×D×H)		mm	1300×188×600		1590×238×695	
Package dimension (W×D×H)		mm	1414×248×724		1714×330×830	
Net weight		kg	34		48.5	
Gross weight		kg	38		57	
Loading quantity	40'GP		220		111	
	40'HQ		244		117	
Standard controller			Wireless remote controller-Y512			

Package AHU

Horizontal Mounted Packaged AHU



881CFM~4696CFM

The unit includes heat exchanger, motor, fan, filter and heat insulating case. Through heat exchange between chilled (hot) water and outdoor fresh air, the unit cool, heat, dry or filter according to requirements. This type of unit has good looking appearance, light weight, easy installation control and operation and space saving features. It is widely used in the hotel, shop or construction project. It can be used either as fresh air unit or return air unit.



- ◇ Belt drive fan motor.
- ◇ Anti-freeze designed cooling coil.
- ◇ Easy maintenance thanks to detachable panel and adjustable motor base.
- ◇ High efficient heat exchange performance.
- ◇ Low noise.
- ◇ Easy operation.
- ◇ Compact and light weight.
- ◇ Long life and washable filter.
- ◇ Anti-corrosion thanks to painted electro-galvanized or hot-electro-galvanized metal case.



Easy installation



Quiet design



Compact design



Light weight



Long life and washable filter

Return Air Type Nominal Test Condition

Item	DB Temperature(°C)	WB Temperature(°C)	Inlet Temperature (°C)	Outlet Temperature (°C)
Cooling	27	19.5	7	12
Heating	21	–	60	–

Fresh Air Type Nominal Test Condition

Item	DB Temperature(°C)	WB Temperature(°C)	Inlet Temperature (°C)	Outlet Temperature (°C)
Cooling	35	28	7	12
Heating	7	–	60	–

4rows-Return air type

Model	Left type		G-1.5WD/B-M	G-2WD/B-M	G-2.5WD/B-M	G-3WD/B-M	
	Right type		G-1.5WDY/B-M	G-2WDY/B-M	G-2.5WDY/B-M	G-3WDY/B-M	
Power supply		V-Ph-Hz	380V-3Ph- 50Hz				
Airflow volume		m³/h	1500	2000	2500	3000	
		CFM	881	1174	1468	1761	
Four rows	Capacity	Cooling	kW	8.4	11.03	14.1	17.11
		Heating	kW	13.7	17.96	22.27	27.8
	Water flow volume		m³/h	1.48	1.91	2.41	3.1
	Pressure drop		kPa	5	7	8	11
			ft-WG	1.67	2.34	2.67	3.67
	Net weight		kg	103	138	146	167
	Gross weight		kg	130	173	186	207
	ESP. type	Optional	Pa/Inwg	40-300/0.16-1.2	40-300/0.16-1.2	50-350/0.2-1.4	50-350/0.2-1.4
Standard ESPrtype	Motor power		kW	0.55	0.55	0.55~0.75	0.55~0.75
	Sound pressure level		dB(A)	≤53	≤55	≤56	≤58
Connection pipe size	Water inlet		mm	DN40	DN40	DN40	DN40
	Water outlet		mm	DN40	DN40	DN40	DN40
	Condensed water drain		mm	DN25	DN25	DN25	DN25
Outline dimension (W×D×H)		mm	1100×1020×440	1100×1020×460	1400×1120×460	1600×1120×460	
Package dimension (W×D×H)		mm	1280×1130×595	1280×1230×615	1580×1230×615	1780×1230×615	
Loading quantity		4'GP	54			44	
		40'HQ	54			44	

Model	Left type		G-4WD/B-M	G-5WD/B-M	G-6WD/B-M	G-7WD/B-M	G-8WD/B-M	
	Right type		G-4WDY/B-M	G-5WDY/B-M	G-6WDY/B-M	G-7WDY/B-M	G-8WDY/B-M	
Power supply		V-Ph-Hz	380V-3Ph-50Hz					
Airflow volume		m³/h	4000	5000	6000	7000	8000	
		CFM	2348	2935	3522	4109	4696	
Four rows	Capacity	Cooling	kW	22.5	28.69	33.47	39.04	44.62
		Heating	kW	34.55	43.4	52.7	62.8	66.8
	Water flow volume		m³/h	3.89	4.93	6.05	7.24	8.39
	Pressure drop		kPa	13	16	15.8	17	18
			ft-WG	4.34	5.34	5.28	5.68	6.01
	Net weight		kg	186	235	235	280	325
	Gross weight		kg	236	290	290	340	390
	ESP. type	Optional	Pa/Inwg	65-350/0.26-1.4	65-350/0.26-1.4	75-400/0.3-1.6	75-400/0.3-1.6	90-450/0.36-1.8
Standard ESPrtype	Motor power		kW	0.75~1.5	1.1~1.2	1.5~2.2	1.5~2.2	2.2~3.0
	Sound pressure level		dB(A)	≤59	≤60	≤60	≤61	≤63
Connection pipe size	Water inlet		mm	DN40	DN50	DN50	DN50	DN50
	Water outlet		mm	DN40	DN50	DN50	DN50	DN50
	Condensed water drain		mm	DN25	DN25	DN25	DN25	DN25
Outline dimension (W×D×H)		mm	2000×1120×460	2100X1320X560	2100×1320×560	2300×1320×560	2300×1320×660	
Package dimension (W×D×H)		mm	2180×1230×615	2280X1430X715	2280×1430×715	2480×1430×715	2480×1430×815	
Loading quantity		4'GP	18	18	18	18	18	
		40'HQ	18	18	18	18	18	

4rows-Fresh air type

Model		Left type		G-1.5WDX/B-M	G-2WDX/B-M	G-2.5WDX/B-M	G-3WDX/B-M
		Right type		G-1.5WDX/Y/B-M	G-2WDX/Y/B-M	G-2.5WDX/Y/B-M	G-3WDX/Y/B-M
Power supply			V-Ph-Hz	380V-3Ph-50Hz			
Airflow volume			m³/h	1500	2000	2500	3000
			CFM	881	1174	1468	1761
Four rows	Capacity	Cooling	kW	20.85	25.71	35.48	40.60
		Heating	kW	22.58	28.26	37.64	43.44
	Water flow volume		m³/h	3.6	4.43	6.08	6.98
	Pressure drop		kPa	10.74	15.6	30.81	39.15
			ft-WG	3.59	5.21	10.29	13.08
	Net weight		kg	103	138	146	167
	Gross weight		kg	130	173	186	207
Standard ESP type	ESP type	Optional	Pa/Inwg	40-300/0.16-1.2	40-300/0.16-1.2	50-350/0.2-1.4	50-350/0.2-1.4
	Motor power	kW	0.55	0.55	0.55~0.75	0.55~0.75	
Connection pipe size	Sound pressure level		dB(A)	≤53	≤55	≤56	≤58
	Water inlet		mm	DN40	DN40	DN40	DN40
	Water outlet		mm	DN40	DN40	DN40	DN40
	Condensed water drain		mm	DN25	DN25	DN25	DN25
Outline dimension (W×D×H)			mm	1100×1020×440	1100×1020×460	1400×1120×460	1600×1120×460
Package dimension (W×D×H)			mm	1280×1130×595	1280×1230×615	1580×1230×615	1780×1230×615
Loading quantity			4' GP	54		44	
			4' HQ	54		44	

Model		Left type		G-4WDX/B-M	G-5WDX/B-M	G-6WDX/B-M	G-7WDX/B-M	G-8WDX/B-M
		Right type		G-4WDX/Y/B-M	G-5WDX/Y/B-M	G-6WDX/Y/B-M	G-7WDX/Y/B-M	G-8WDX/Y/B-M
Power supply			V-Ph-Hz	380V-3Ph-50Hz				
Airflow volume			m³/h	4000	5000	6000	7000	8000
			CFM	2348	2935	3522	4109	4696
Four rows	Capacity	Cooling	kW	48.74	60.87	73.21	91.62	100.82
		Heating	kW	56.64	67.72	81.27	99.12	110.00
	Water flow volume		m³/h	8.39	10.48	12.6	15.77	17.35
	Pressure drop		kPa	6.50	10.10	10.10	16.40	19.40
			ft-WG	2.17	3.37	3.37	5.48	6.48
	Net weight		kg	186	235	235	280	325
	Gross weight		kg	236	290	290	340	390
Standard ESP type	ESP type	Optional	Pa/Inwg	65-350/0.26-1.4	65-350/0.26-1.4	75-400/0.3-1.6	75-400/0.3-1.6	90-450/0.36-1.8
	Motor power	kW	0.75~1.5	1.1~2.2	1.5~2.2	1.5~2.2	2.2~3.0	
Connection pipe size	Sound pressure level		dB(A)	≤59	≤60	≤60	≤61	≤63
	Water inlet		mm	DN40	DN50	DN50	DN50	DN50
	Water outlet		mm	DN40	DN50	DN50	DN50	DN50
	Condensed water drain		mm	DN25	DN25	DN25	DN25	DN25
Outline dimension (W×D×H)			mm	2000×1120×460	2100×1320×560	2100×1320×560	2300×1320×560	2300×1320×660
Package dimension (W×D×H)			mm	2180×1230×615	2280×1430×715	2280×1430×715	2480×1430×715	2480×1430×815
Loading quantity			4' GP	18	18	18	18	18
			4' HQ	18	18	18	18	18



6rows-Return air type

Model	Left type		G-1.5WDI/B-M	G-2WDI/B-M	G-2.5WDI/B-M	G-3WDI/B-M	
	Right type		G-1.5WDIY/B-M	G-2WDIY/B-M	G-2.5WDIY/B-M	G-3WDIY/B-M	
Power supply		V-Ph-Hz	380V-3Ph-50Hz				
Airflow volume		m ³ /h	1500	2000	2500	3000	
		CFM	881	1174	1468	1761	
Six rows	Capacity	Cooling	12.03	13.5	18.42	21.53	
		Heating	17.28	19.58	27.2	30.13	
	Water flow volume		m ³ /h	2.05	2.34	3.17	3.71
	Pressure drop		kPa	7	9	11	13
			Ft-WG	2.34	3.01	3.67	4.34
	Net weight		kg	140	150	160	180
	Gross weight		kg	170	185	200	220
	ESP type	Optional	Pa/Inwg	40-300/0.16-1.2	40-300/0.16-1.2	50-350/0.2-1.4	50-350/0.2-1.4
Standard ES Ptype	Motor power		kW	0.55	0.55~0.75	0.55~0.75	
	Sound pressure level		dB(A)	≤53	≤55	≤56	≤58
Connection pipe size	Water inlet		mm	DN40	DN40	DN40	
	Water outlet		mm	DN40	DN40	DN40	
	Condensed water drain		mm	DN25	DN25	DN25	
Outline dimension (W×D×H)		mm	1100×1020×440	1100×1020×460	1400×1120×460	1600×1120×460	
Package dimension (W×D×H)		mm	1280×1130×595	1280×1230×615	1580×1230×615	1780×1230×615	
Loading quantity		40'GP	54		44		
		40'HQ	54		44		

Model	Left type		G-4WDI/B-M	G-5WDI/B-M	G-6WDI/B-M	G-7WDI/B-M	G-8WDI/B-M	
	Right type		G-4WDIY/B-M	G-5WDIY/B-M	G-6WDIY/B-M	G-7WDIY/B-M	G-8WDIY/B-M	
Power supply		V-Ph-Hz	380V-3Ph-50Hz					
Airflow volume		m ³ /h	4000	5000	6000	7000	8000	
		CFM	2348	2935	3522	4109	4696	
Six rows	Capacity	Cooling	28.78	36.19	43.52	53.22	59.70	
		Heating	42.79	53.9	63.40	77.17	87.56	
	Water flow volume		m ³ /h	4.97	6.23	7.49	9.14	10.26
	Pressure drop		kPa	16	19	20.8	21	22
			Ft-WG	5.34	6.35	6.95	7.01	7.35
	Net weight		kg	200	250	250	300	350
	Gross weight		kg	250	305	305	360	415
	ESP type	Optional	Pa/Inwg	65-350/0.26-1.4	65-350/0.26-1.4	75-400/0.3-1.6	75-400/0.3-1.6	90-450/0.36-1.8
Standard ES Ptype	Motor power		kW	0.75~1.5	1.1~2.2	1.5~2.2	1.5~2.2	2.2~3.0
	Sound pressure level		dB(A)	≤59	≤60	≤60	≤61	≤63
Connection pipe size	Water inlet		mm	DN40	DN50	DN50	DN50	DN50
	Water outlet		mm	DN40	DN50	DN50	DN50	DN50
	Condensed water drain		mm	DN25	DN25	DN25	DN25	DN25
Outline dimension (W×D×H)		mm	2000×1120×460	2100×1320×560	2100×1320×560	2300×1320×560	2300×1320×660	
Package dimension (W×D×H)		mm	2180×1230×615	2280×1430×715	2280×1430×715	2480×1430×715	2480×1430×815	
Loading quantity		40'GP	18	18	18	18	18	
		40'HQ	18	18	18	18	18	



6 rows-Fresh air type

Model	Left type		G-1.5WDXI/B-M	G-2WDXI/B-M	G-2.5WDXI/B-M	G-3WDXI/B-M	
	Right type		G-1.5WDXIY/B-M	G-2WDXIY/B-M	G-2.5WDXIY/B-M	G-3WDXIY/B-M	
Power supply		V-Ph-Hz	380V-3Ph-50Hz				
Airflow volume		m³/h	1500	2000	2500	3000	
		CFM	881	1174	1468	1761	
Six rows	Capacity	Cooling	kW	23.49	31.32	39.15	46.99
		Heating	kW	26.19	33.21	42.91	49.83
	Water flow volume		m³/h	4.5	5.72	7.38	8.57
	Pressure drop		kPa	21.05	32.19	20.99	27.45
			Ft-WG	7.02	10.73	7.0	9.15
	Net weight		kg	140	150	160	180
	Gross weight		kg	170	185	200	220
	ESP type	Optional	Pa/Inwg	40-300/0.16-1.2	40-300/0.16-1.2	50-350/0.2-1.4	50-350/0.2-1.4
Standard ESP type	Motor power		kW	0.55	0.55	0.55~0.75	0.55~0.75
	Sound pressure level		dB(A)	≤53	≤55	≤56	≤58
Connection pipe size	Water inlet		mm	DN40	DN40	DN40	DN40
	Water outlet		mm	DN40	DN40	DN40	DN40
	Condensed water drain		mm	DN25	DN25	DN25	DN25
Outline dimension (W×D×H)		mm	1100×1020×440	1100×1020×460	1400×1120×460	1600×1120×460	
Package dimension (W×D×H)		mm	1280×1130×595	1280×1230×615	1580×1230×615	1780×1230×615	
Loading quantity		40' GP	54		44		
		40' HQ	54		44		

Model	Left type		G-4WDXI/B-M	G-5WDXI/B-M	G-6WDXI/B-M	G-7WDXI/B-M	G-8WDXI/B-M	
	Right type		G-4WDXIY/B-M	G-5WDXIY/B-M	G-6WDXIY/B-M	G-7WDXIY/B-M	G-8WDXIY/B-M	
Power supply		V-Ph-Hz	380V-3Ph-50Hz					
Airflow volume		m³/h	4000	5000	6000	7000	8000	
		CFM	2348	2935	3522	4109	4696	
Six rows	Capacity	Cooling	kW	62.64	78.31	93.97	109.63	125.29
		Heating	kW	64.22	80.11	96.20	117.14	130.58
	Water flow volume		m³/h	11.05	13.79	16.56	20.16	22.46
	Pressure drop		kPa	13.4	20.7	20.70	32.4	39.30
			Ft-WG	4.47	6.90	6.90	10.80	13.10
	Net weight		kg	200	250	250	300	350
	Gross weight		kg	250	305	305	360	415
	ESP type	Optional	Pa/Inwg	65-350/0.26-1.4	65-350/0.26-1.4	75-400/0.3-1.6	75-400/0.3-1.6	90-450/0.36-1.8
Standard ESP type	Motor power		kW	0.75~1.5	1.1~2.2	1.5~2.2	1.5~2.2	2.2~3.0
	Sound pressure level		dB(A)	≤59	≤60	≤60	≤61	≤63
Connection pipe size	Water inlet		mm	DN40	DN50	DN50	DN50	DN50
	Water outlet		mm	DN40	DN50	DN50	DN50	DN50
	Condensed water drain		mm	DN25	DN25	DN25	DN25	DN25
Outline dimension (W×D×H)		mm	2000×1120×460	2100×1320×560	2100×1320×560	2300×1320×560	2300×1320×660	
Package dimension (W×D×H)		mm	2180×1230×615	2280×1430×715	2280×1430×715	2480×1430×715	2480×1430×815	
Loading quantity		40' GP	18	18	18	18	18	
		40' HQ	18	18	18	18	18	



▶ Vertical Mounted Packaged AHU



1761CFM~17610CFM

▶ With modular design, the unit includes heat exchanger, motor, fan, filter and heat insulating case. Through heat exchange between chilled (hot) water and outdoor fresh air, the unit cool, heat, dry or filter according to requirements. This type of unit has good looking appearance, light weight, easy installation control and operation and space saving features. It is widely used in the hotel, shop or construction project. It can be used either as fresh air unit or return air unit.



- ◇ Anti-corrosion and cold bridges prevention thanks to sandwich structure case.
- ◇ Aluminum alloy as frame.
- ◇ Painted electro-galvanized metal sheet as outer-layer.
- ◇ Hot galvanized metal sheet as inner-layer.
- ◇ High-density heat-insulated urethane foam filled between outer and inner layers.
- ◇ High-density blown rubber sealed between the frame and panel.
- ◇ Belt drive fan motor.
- ◇ Anti-freeze designed cooling coil.
- ◇ Easy maintenance thanks to detachable panel and adjustable motor base.
- ◇ High efficient heat exchange performance.
- ◇ Low noise.
- ◇ Easy operation.
- ◇ Compact and light weight.
- ◇ Long life and washable filter.
- ◇ Anti-corrosion thanks to painted electro-galvanized or hot-electro-galvanized metal case.



Easy installation



Quiet design



Compact design



Light weight



Long life and washable filter

Return Air Type Nominal Test Condition

Item	DB Temperature(°C)	WB Temperature(°C)	Inlet Temperature (°C)	Outlet Temperature (°C)
Cooling	27	19.5	7	12
Heating	21	-	60	-

Fresh Air Type Nominal Test Condition

Item	DB Temperature(°C)	WB Temperature(°C)	Inlet Temperature (°C)	Outlet Temperature (°C)
Cooling	35	28	7	12
Heating	7	-	60	-

4rows-Return air type

Model	Left type		G-3-M	G-4-M	G-5-M	G-6-M	G-8-M	G-10-M	G-12-M	
	Right type		G-3Y-M	G-4Y-M	G-5Y-M	G-6Y-M	G-8Y-M	G-10Y-M	G-12Y-M	
Power supply		V-Ph-Hz	380V-3Ph-50Hz							
Airflow volume		m³/h	3000	4000	5000	6000	8000	10000	12000	
		CFM	1761	2348	2935	3522	4696	5870	7044	
Four rows	Capacity	Cooling	kW	18.2	23.5	32.2	36.4	48.5	60.1	72.1
		Heating	kW	28.2	40.2	50.2	58.2	75.8	92.3	112.8
	Water flow volume		m³/h	3.13	4.07	5.54	6.26	8.35	10.33	12.38
	Pressure drop		kPa	9.15	11.9	16	21.2	30.9	57.1	12
			ft-WG	3.06	3.97	5.34	7.08	10.32	19.07	4.01
	Net weight		kg	215	260	305	340	390	450	503
	Gross weight		kg	250	295	345	420	430	475	563
Standard ES Ptype	ES Ptype	Optional	Pa/Inwg	50-300/0.2-1.2	65-350/0.26-1.4	65-350/0.2-1.4	75-350/0.3-1.4	90-450/0.36-1.8	90-500/0.36-2.0	100-500/0.4-2.0
	Motor power	kW	0.55~1.1	1.1~1.5	1.1~1.5	1.5~2.2	2.2~3.0	2.2~4.0	3~5.5	
Connection pipe size	Sound pressure level		dB(A)	≤56		≤57	≤58	≤59	≤59	≤61
	Water inlet		mm	DN40		DN50	DN65			
	Water outlet		mm	DN40		DN50	DN65			
	Condensed water drain		mm	DN25				DN32		
Outline dimension (W×D×H)		mm	1150×730×1300	1150×730×1400	1350×830×1400	1350×830×1600	1750×830×1800	1950×830×1800	1950×830×1900	
Package dimension (W×D×H)		mm	1260×830×1420	1260×830×1520	1450×930×1520	1450×930×1720	1880×948×1920	2070×948×1920	2070×948×2020	
Loading quantity		40'GP	22		16	14	12			
		40'HQ	22		16	14	12			

Model	Left type		G-14-M	G-16-M	G-18-M	G-20-M	G-22-M	G-25-M	G-30-M	
	Right type		G-14Y-M	G-16Y-M	G-18Y-M	G-20Y-M	G-22Y-M	G-25Y-M	G-30Y-M	
Power supply		V-Ph-Hz	380V-3Ph-50Hz							
Airflow volume		m³/h	14000	16000	18000	20000	22000	25000	30000	
		CFM	8218	9392	10566	11740	12914	14675	17610	
Four rows	Capacity	Cooling	kW	82.1	91.1	106.2	121.5	133.5	152.3	175.5
		Heating	kW	129.5	143.3	161.5	178.4	207.2	226.3	271.4
	Water flow volume		m³/h	14.11	15.66	18.25	20.92	22.97	26.21	30.2
	Pressure drop		kPa	22.05	23	25	25	20	29	23
			ft-WG	7.36	7.68	8.35	8.35	6.68	9.69	7.68
	Net weight		kg	545	745	790	815	865	910	1015
	Gross weight		kg	590	820	850	890	905	950	1075
Standard ES Ptype	ES Ptype	Optional	Pa/Inwg	100-550/0.4-2.2	120-600/0.48-2.4	120-650/0.48-2.6	140-700/0.56-2.8	170-750/0.68-3.0	170-750/0.68-3.0	220-800/0.44-3.2
	Motor power	kW	3~5.5	4~5.5	5.5~7.5	5.5~11	5.5~11	7.5~11	11~15	
Connection pipe size	Sound pressure level		dB(A)	≤63.5		≤65.5	≤67	≤68	≤68	≤71
	Water inlet		mm	DN65	DN65	DN65	DN80	DN80	DN80	DN80
	Water outlet		mm	DN65	DN65	DN65	DN80	DN80	DN80	DN80
	Condensed water drain		mm	DN32	DN32	DN32	DN32	DN32	DN32	DN32
Outline dimension (W×D×H)		mm	2250×930×2100	2250×930×2100	2250×930×2100	1950×1440×1930	2250×1640×2030	2250×1640×2030	2250×1640×2330	
Package dimension (W×D×H)		mm	2338×1048×2230	2338×1048×2230	2338×1048×2230	2040×1500×2060	2340×1700×2160	2340×1700×2160	2340×1700×2460	
Loading quantity		40'GP	8	8	8	7	5	5	-	
		40'HQ	8	8	8	7	5	5	4	

4rows-Fresh air type

Model		Left type		G-3X-M	G-4X-M	G-5X-M	G-6X-M	G-8X-M	G-10X-M	G-12X-M
		Right type		G-3XY-M	G-4XY-M	G-5XY-M	G-6XY-M	G-8XY-M	G-10XY-M	G-12XY-M
Power supply			V-Ph-Hz	380V-3Ph-50Hz						
Airflow volume			m ³ /h	3000	4000	5000	6000	8000	10000	12000
			CFM	1761	2348	2935	3522	4696	5870	7044
Four rows	Capacity	Cooling	kW	43.8	58.5	73.1	88.2	116.5	145.8	172.6
		Heating	kW	47.3	63.2	78.5	95.2	125.8	157.4	184.4
	Water flow volume		m ³ /h	7.56	10.08	12.56	15.16	20.12	25.13	29.77
	Pressure drop		kPa	17.4	20.1	12.2	14.1	18.4	24	34.6
			ft-WG	5.81	6.71	4.07	4.71	6.15	8.02	8.27
	Net weight		kg	215	260	305	340	390	450	503
	Gross weight		kg	250	295	345	420	430	475	563
	ESRtype	Optional	Pa/Inwg	50-300/0.2-1.2	65-350/0.26-1.4	65-350/0.2-1.4	75-350/0.3-1.4	90-450/0.36-1.8	90-500/0.36-2.0	100-500/0.4-2.0
Standard ESRtype	Motor power		kW	0.55~1.1	1.1~1.5	1.1~1.5	1.5~2.2	2.2~3.0	2.2~4.0	3~5.5
	Sound pressure level		dB(A)	≤56		≤57	≤58	≤59	≤59	≤61
Connection pipe size	Water inlet		mm	DN40		DN50	DN65			
	Water outlet		mm	DN40		DN50	DN65			
	Condensed water drain		mm	DN25				DN32		
Outline dimension (W×D×H)			mm	1150×730×1300	1150×730×1400	1350×830×1400	1350×830×1600	1750×830×1800	1950×830×1800	1950×830×1900
Package dimension (W×D×H)			mm	1260×830×1420	1260×830×1520	1450×930×1520	1450×930×1720	1880×948×1920	2070×948×1920	2070×948×2020
Loading quantity			40'GP	22		16	14	12		
			40'HQ	22		16	14	12		

Model		Left type		G-14X-M	G-16X-M	G-18X-M	G-20X-M	G-22X-M	G-25X-M	G-30X-M
		Right type		G-14XY-M	G-16XY-M	G-18XY-M	G-20XY-M	G-22XY-M	G-25XY-M	G-30XY-M
Power supply			V-Ph-Hz	380V-3Ph-50Hz						
Airflow volume			m ³ /h	14000	16000	18000	20000	22000	25000	30000
			CFM	8218	9392	10566	11740	12914	14675	17610
Four rows	Capacity	Cooling	kW	197.6	212.1	239.6	290.8	316.4	344.5	414.5
		Heating	kW	210.4	225.8	255.4	308.2	335.3	364.7	435.2
	Water flow volume		m ³ /h	34.06	36.47	41.22	50.04	54.43	59.26	71.93
	Pressure drop		kPa	22.05	26.6	25	25	20	29	23
			ft-WG	7.36	8.88	8.35	8.35	6.68	9.69	7.68
	Net weight		kg	545	745	790	815	865	910	1015
	Gross weight		kg	590	820	850	890	905	950	1075
	ESRtype	Optional	Pa/Inwg	100-550/0.4-2.2	120-600/0.48-2.4	120-650/0.48-2.6	140-700/0.56-2.8	170-750/0.68-3.0	170-750/0.68-3.0	220-800/0.44-3.2
Standard ESRtype	Motor power		kW	3~5.5	4~5.5	5.5~7.5	5.5~11	5.5~11	7.5~11	11~15
	Sound pressure level		dB(A)	≤63.5		≤65.5	≤67	≤68	≤68	≤71
Connection pipe size	Water inlet		mm	DN65	DN65	DN65	DN80	DN80	DN80	DN80
	Water outlet		mm	DN65	DN65	DN65	DN80	DN80	DN80	DN80
	Condensed water drain		mm	DN32	DN32	DN32	DN32	DN32	DN32	DN32
Outline dimension (W×D×H)			mm	2250×930×2100	2250×930×2100	2250×930×2100	1950×1440×1930	2250×1640×2030	2250×1640×2030	2250×1640×2330
Package dimension (W×D×H)			mm	2338×1048×2230	2338×1048×2230	2338×1048×2230	2040×1500×2060	2340×1700×2160	2340×1700×2160	2340×1700×2460
Loading quantity			40'GP	8	8	8	7	5	5	-
			40'HQ	8	8	8	7	5	5	4



6rows-Return air type

Model		Left type		G-3I-M	G-4I-M	G-5I-M	G-6I-M	G-8I-M	G-10I-M	G-12I-M
		Right type		G-3IY-M	G-4IY-M	G-5IY-M	G-6IY-M	G-8IY-M	G-10IY-M	G-12IY-M
Power supply		V-Ph-Hz		380V-3Ph-50Hz						
Airflow volume		m³/h		3000	4000	5000	6000	8000	10000	12000
		CFM		1761	2348	2935	3522	4696	5870	7044
Six rows	Capacity	Cooling	kW	26.5	35.1	44.1	52.5	66.1	84.1	96.5
		Heating	kW	35.3	46.5	58.4	68.9	88.8	112.3	133.5
	Water flow volume		m³/h	4.57	6.05	7.56	9.04	11.38	14.47	16.6
	Pressure drop		kPa	12.9	14.6	15	16.1	20.8	23.2	25.6
			ft-WG	4.31	4.88	5.01	5.38	6.95	7.75	8.55
	Net weight		kg	240	295	330	375	435	485	535
	Gross weight		kg	275	335	360	455	475	535	585
Standard ES Ptype	ES Ptype	Optional	Pa/Inwg	50-300/0.2-1.2	65-350/0.26-1.4	65-350/0.2-1.4	75-350/0.3-1.4	90-450/0.36-1.8	90-500/0.36-2.0	100-500/0.4-2.0
	Motor power	kW		0.55~1.1	1.1~1.5	1.1~1.5	1.5~2.2	2.2~3.0	2.2~4.0	3~5.5
Connection pipe size	Sound pressure level		dB(A)	≤56		≤57		≤58	≤59	≤61
	Water inlet		mm	DN40		DN50		DN65		
	Water outlet		mm	DN40		DN50		DN65		
	Condensed water drain		mm	DN25				DN32		
Outline dimension (W×D×H)		mm	1150×730×1300	1150×730×1400	1350×830×1400	1350×830×1600	1750×830×1800	1950×830×1800	1950×830×1900	
Package dimension (W×D×H)		mm	1260×830×1420	1260×830×1520	1450×930×1520	1450×930×1720	1880×948×1920	2070×948×1920	2070×948×2020	
Loading quantity		40'GP		22		16	14		12	
		40'HQ		22		16	14		12	

Model		Left type		G-14I-M	G-16I-M	G-18I-M	G-20I-M	G-22I-M	G-25I-M	G-30I-M	
		Right type		G-14IY-M	G-16IY-M	G-18IY-M	G-20IY-M	G-22IY-M	G-25IY-M	G-30IY-M	
Power supply		V-Ph-Hz		380V-3Ph-50Hz							
Airflow volume		m³/h		14000	16000	18000	20000	22000	25000	30000	
		CFM		8218	9392	10566	11740	12914	14675	17610	
Six rows	Capacity	Cooling	kW	111.6	123	143.8	165	179	195	233	
		Heating	kW	155.4	173.2	198.2	224	245.6	278.5	335	
	Water flow volume		m³/h	19.22	21.17	24.73	28.4	30.82	33.55	40.1	
	Pressure drop		kPa	28.01	32.1	35.2	38.5	32.1	36	38	
			ft-WG	9.36	10.72	11.78	12.86	10.72	12.02	12.69	
	Net weight		kg	580	780	840	860	915	960	1250	
	Gross weight		kg	630	850	900	930	980	1000	1310	
Standard ES Ptype	ES Ptype	Optional	Pa/Inwg	100-550/0.4-2.2	120-600/0.48-2.4	120-650/0.48-2.6	140-700/0.56-2.8	170-750/0.68-3.0	170-750/0.68-3.0	220-800/0.44-3.2	
	Motor power	kW		3~5.5	4~5.5	5.5~7.5	5.5~11	5.5~11	7.5~11	11~15	
Connection pipe size	Sound pressure level		dB(A)	≤63.5		≤65.5		≤67	≤68	≤68	≤71
	Water inlet		mm	DN65	DN65	DN65	DN80	DN80	DN80	DN80	
	Water outlet		mm	DN65	DN65	DN65	DN80	DN80	DN80	DN80	
	Condensed water drain		mm	DN32	DN32	DN32	DN32	DN32	DN32	DN32	
Outline dimension (W×D×H)		mm	2250×930×2100	2250×930×2100	2250×930×2100	1950×1440×1930	2250×1640×2030	2250×1640×2030	2250×1640×2330		
Package dimension (W×D×H)		mm	2338×1048×2230	2338×1048×2230	2338×1048×2230	2040×1500×2060	2340×1700×2160	2340×1700×2160	2340×1700×2460		
Loading quantity		40'GP		8	8	8	7	5	5	-	
		40'HQ		8	8	8	7	5	5	4	



6rows-Fresh air type

Model		Left type		G-3XI-M	G-4XI-M	G-5XI-M	G-6XI-M	G-8XI-M	G-10XI-M	G-12XI-M
		Right type		G-3XIY-M	G-4XIY-M	G-5XIY-M	G-6XIY-M	G-8XIY-M	G-10XIY-M	G-12XIY-M
Power supply			V-Ph-Hz	380V-3Ph-50Hz						
Airflow volume			m ³ /h	3000	4000	5000	6000	8000	10000	12000
			CFM	1761	2348	2935	3522	4696	5870	7044
Six rows	Capacity	Cooling	kW	53.5	73.1	91.1	105.5	151.6	182.3	215.5
		Heating	kW	57.2	78.2	97.5	112.8	162.2	195.1	228.4
	Water flow volume		m ³ /h	9.29	12.56	15.66	18.14	25.13	31.32	37.33
	Pressure drop		kPa	23.5	30.5	28.8	25.8	29.8	35.2	41.2
			ft-WG	7.85	10.19	9.62	8.62	9.95	11.76	13.76
	Net weight		kg	240	295	330	375	435	485	535
	Gross weight		kg	275	335	360	455	475	535	585
ESPtype		Optional	Pa/Inwg	50-300/0.2-1.2	65-350/0.26-1.4	65-350/0.2-1.4	75-350/0.3-1.4	90-450/0.36-1.8	90-500/0.36-2.0	100-500/0.4-2.0
Standard ESPtype	Motor power		kW	0.55~1.1	1.1~1.5	1.1~1.5	1.5~2.2	2.2~3.0	2.2~4.0	3~5.5
	Sound pressure level		dB(A)	≤56		≤57	≤58	≤59	≤59	≤61
Connection pipe size	Water inlet		mm	DN40			DN50		DN65	
	Water outlet		mm	DN40			DN50		DN65	
	Condensed water drain		mm	DN25					DN32	
Outline dimension (W×D×H)			mm	1150×730×1300	1150×730×1400	1350×830×1400	1350×830×1600	1750×830×1800	1950×830×1800	1950×830×1900
Package dimension (W×D×H)			mm	1260×830×1420	1260×830×1520	1450×930×1520	1450×930×1720	1880×948×1920	2070×948×1920	2070×948×2020
Loading quantity			40'GP	22		16	14	12		12
			40'HQ	22		16	14	12		12

Model		Left type		G-14XI-M	G-16XI-M	G-18XI-M	G-20XI-M	G-22XI-M	G-25XI-M	G-30XI-M
		Right type		G-14XIY-M	G-16XIY-M	G-18XIY-M	G-20XIY-M	G-22XIY-M	G-25XIY-M	G-30XIY-M
Power supply			V-Ph-Hz	380V-3Ph-50Hz						
Airflow volume			m ³ /h	14000	16000	18000	20000	22000	25000	30000
			CFM	8218	9392	10566	11740	12914	14675	17610
Six rows	Capacity	Cooling	kW	240.7	252.1	291.1	320.5	370.3	407.7	492.4
		Heating	kW	249.6	261.5	301.7	332.4	385.2	422.1	510.1
	Water flow volume		m ³ /h	43.52	45.58	52.63	57.96	67.14	73.73	89.03
	Pressure drop		kPa	33.8	40.2	38.2	36.5	32.1	38	38
			ft-WG	11.29	13.43	12.76	12.19	10.72	12.69	12.69
	Net weight		kg	580	780	840	860	915	960	1250
	Gross weight		kg	630	850	900	930	980	1000	1310
ESPtype		Optional	Pa/Inwg	100-550/0.4-2.2	120-600/0.48-2.4	120-650/0.48-2.6	140-700/0.56-2.8	170-750/0.68-3.0	170-750/0.68-3.0	220-800/0.44-3.2
Standard ESPtype	Motor power		kW	3~5.5	4~5.5	5.5~7.5	5.5~11	5.5~11	7.5~11	11~15
	Sound pressure level		dB(A)	≤63.5		≤65.5	≤67	≤68	≤68	≤71
Connection pipe size	Water inlet		mm	DN65	DN65	DN65	DN80	DN80	DN80	DN80
	Water outlet		mm	DN65	DN65	DN65	DN80	DN80	DN80	DN80
	Condensed water drain		mm	DN32	DN32	DN32	DN32	DN32	DN32	DN32
Outline dimension (W×D×H)			mm	2250×930×2100	2250×930×2100	2250×930×2100	1950×1440×1930	2250×1640×2030	2250×1640×2030	2250×1640×2330
Package dimension (W×D×H)			mm	2338×1048×2230	2338×1048×2230	2338×1048×2230	2040×1500×2060	2340×1700×2160	2340×1700×2160	2340×1700×2460
Loading quantity			40'GP	8	8	8	7	5	5	-
			40'HQ	8	8	8	7	5	5	4



Hydronic Air Handling Unit(GZK Series)



533CFM~20242CFM

▶ Gree hydronic air handling unit can be combined by various functional sections according to user's requirements. It is widely used in electronic instruments, precision manufacturing, textile, chemical, cigarette, pharmaceuticals, food industries and office building, hotel, supermarket, theater, exhibition center, stadium, shop, hotel and so on.



- ◇ Humanized Structure
Thermally decoupled aluminum profile with sealing materials to ensure the lowest air leakage and the best heat insulating performance.
Two-layer panel, heat-insulating polyurethane foam, light weight and low heat bridge factor.
Drainage valve is installed at the lowest position of return passage of coil pipe to drain accumulated water and prevent frost crack of coil pipe.
Drainage valve installed at the top of coil pipe to prevent steam blockage to coil pipe and ensure heat exchange.
Each unit is equipped with a base to strengthen the whole unit and make assembly convenient.
Access door is set at proper place for the functional section to take maintenance of functional parts easily.
- ◇ High-performance Configuration.
High-efficient fan with low noise, less energy consumption and good security.
Seamless copper pipes with mechanically pressed-on layers to ensure high-efficient heat exchange.
Corrugated fin of cold coil pipe adopts hydronic materials and can be equipped with drip eliminator to prevent blowing out of water drops in spite of high air velocity.

Inner panel is hot galvanized sheet, be free of heat-insulatea sponge, and is the optimum of MAU.

Automatic control system can be set according to requirements to realize automatic adjustment of temperature and humidity of air.

- ◇ High Quality
Optimal combination can be made according to selected functional sections.
Suitable functional sections and combination mode can be selected according to user's requirement for ventilation and purification
Each process of production is strictly controlled to ensure reliable quality.



Easy installation



Quiet design



Compact design



Light weight



Long life and washable filter

Nominal Test Condition

Item	DB Temperature(°C)	WB Temperature(°C)	Inlet Temperature (°C)	Outlet Temperature (°C)
Cooling	27	19.5	7	12
Heating	21	–	60	–

Fresh Air Type Nominal Test Condition

Item	DB Temperature(°C)	WB Temperature(°C)	Inlet Temperature (°C)	Outlet Temperature (°C)
Cooling	35	28	7	12
Heating	7	–	60	–

Spec.	Section dimension (25mm panel)		Airflow volume against air velocity					Cooling capacity return air return condition	Cooling capacity under fresh air condition	Air supply total pressure
			2 (m/s)	2.25(m/s)	2.5(m/s)	2.75(m/s)	3(m/s)			
GZK	W	H	m ³ /h							
0804	850	450	905	1018	1132	1245	1358	5-12	12-25	200~600
			CFM	533	600	667	733			
0806	850	650	1811	2037	2263	2489	2716	10-23	24-51	200~600
			CFM	1067	1200	1333	1466			
0808	850	850	2414	2716	3018	3319	3621	14-31	31-67	200~600
			CFM	1422	1600	1778	1955			
1008	1050	850	3292	3703	4115	4526	4938	19-43	43-92	200~600
			CFM	1939	2181	2424	2666			
1208	1250	850	4170	4691	5212	5733	6254	24-54	54-116	200~600
			CFM	2456	2763	3070	3377			
1210	1250	1050	5733	6450	7167	7883	8600	32-74	75-160	200~600
			CFM	3377	3799	4221	4643			
1610	1650	1050	8147	9166	10184	11203	12221	46-106	106-227	400~1000
			CFM	4799	5399	5998	6599			
1612	1650	1250	10369	11665	12962	14258	15554	59-135	135-289	400~1000
			CFM	6107	6871	7635	8398			
1616	1650	1650	13365	15035	16706	18377	21384	76-185	174-398	400~1000
			CFM	7872	8856	9840	10824			
2012	2050	1250	14073	15832	17591	19350	21109	80-183	183-393	400~1000
			CFM	8289	9325	10361	11397			
2016	2050	1650	18138	20405	22673	24940	27207	102-235	236-506	400~1000
			CFM	10683	12019	13354	14690			
2020	2050	2050	22911	25775	28639	31503	34367	129-297	298-639	400~1500
			CFM	13495	15181	16868	18555			



Air Curtain



705CFM~970CFM



Wired Controller (standard)



Wireless Controller (standard)

▶ With optimized cross flow fan and motor, self-developed microcomputer controller, air curtain has reliable performance and long life. Both manual control and remote control are available. It can be used in hotel, shop, supermarket and office buildings etc.



- ◆ Optimized cross-flow fan and good performance motor are adopted.
- ◆ Microcomputer control.
- ◆ Reliable performance and long duration.
- ◆ Both manual control and wireless remote control are available.
- ◆ Anti-corrosion thanks to two-side painted electro-galvanized metal case.
- ◆ Good strength structure provides powerful airflow.



Model			FM-1.25-9-K	FM-1.25-12-K
Power supply	V-Ph-Hz		220-230V-50Hz	
Power input	W		110	140
Air flow volume	m ³ /h		1200	1650
	CFM		705	970
Sound pressure level	dB (A)		59/56	61/56
Outline dimension	Width	mm	900	1200
	Height	mm	193	193
	Depth	mm	215	215
Dimension package	Width	mm	1015	1315
	Height	mm	256	256
	Depth	mm	270	270
Net weight	kg		16	20
Gross weight	kg		18	22
Loading quantity	40' GP		848	660
	40' HQ		954	746
Standard wireless remote controller			ZY611	



Diffuser



Adjustable grille



Return air grille

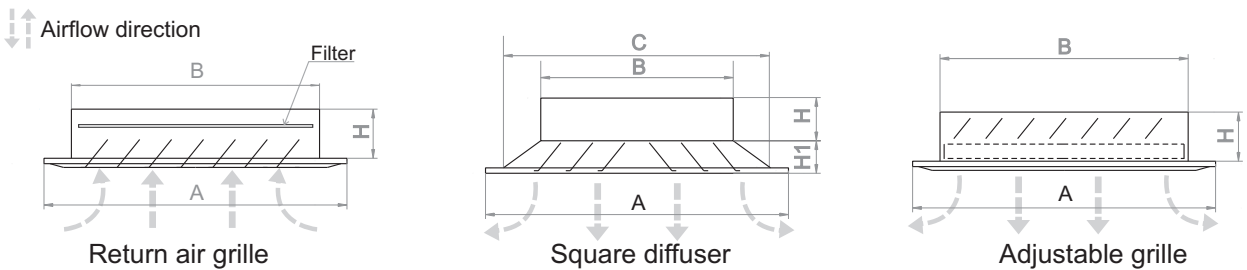


Square diffuser

The diffuser is applicable to various constructions for its combination of square and round types. Its appearance is good looking, air pressure is strong, noise is low, airflow distribution is even and distribution distance is long and so on.



- ◇ Single Deflection Return Air Grille
The single-layer louver air inlet is equipped with filter which is detachable and mountable.
- ◇ Adjustable Double Deflection Grille
The dual-layer grille type air outlet can adjust the airflow to each corner.



installation dimension

Adjustable grille

Model NEW	Throat B	A	H
FKSB6312	630×120	690×180	50
FKSB10012	1000×120	1040×160	50

Return air grille

Model NEW	Throat B	A	H
FKDB45	375×375	448×448	60
FKDB60	517×517	598×598	60
FKDB6325	630×253	685×308	28
FKDB10025	1005×260	1034×290	30

Square diffuser

Model NEW	Throat B	A	C	H	H1
FKFS45	270×270	448×448	Φ365	25	25
FKFS60	368×368	598×598	Φ485	27	34

Energy-recovery Ventilation System



124CFM~1765CFM



Wired Controller (standard)

▶ With high efficiency heat exchange materials, the sensible heat and latent heat can be efficiently recovered. Meanwhile, fresh air is led in to reduce harmful gas. It is widely used in the household, meeting room, lab, office, machine room, restaurant, shop and so on.

- ◇ Flexible control function:
Half-half air discharging and supplying.
Plus-minus room pressure air supplying(D3.5-D10units).
Weekly control for on-off time.
Humidity control(optional)
Long distance control(optional).
- ◇ Remarkable energy saving:
Heat recovery ventilation system can reduce the loading of air-conditioner by 26% based on yearly operation thanks to applying heat recovery exchanging and by-pass fresh air leading-in function.
6 models to choose from 150 to 2000 m3/h air flow volume.
- ◇ Easy installation and maintenance.
- ◇ Long life and washable filter and heat exchanger.
- ◇ Modulated fresh air improve the indoor air condition.
- ◇ High heat exchange efficiency.



Energy saving



Easy installation



Long life and washable filter



Nominal Test Condition

Item	Indoor air		Outdoor air	
	DB Temperature(°C)	WB Temperature(°C)	DB Temperature (°C)	WB Temperature (°C)
Cooling	27	20	35	29
Heating	20	14	5	2

Model			FHBQ-D3.5-K	FHBQ-D5-K	FHBQ-D8-K	FHBQ-D10-K
Air flow volume	High-Middle-Low	m³/h	360-260-210	500-380-300	800-600-480	1000-750-600
External statics pressure	High-Middle-Low	Pa	100-80-60	100-80-60	110-85-65	110-85-65
Temperature exchange efficiency	High-Middle-Low	%	71-73-75	68-70-72	70-72-74	75-77-79
Enthalpy exchange efficiency-Heating	High-Middle-Low	%	65-67-68	62-64-65	63-65-67	66-68-70
Enthalpy exchange efficiency-Cooling	High-Middle-Low	%	61-63-65	57-59-61	60-62-64	62-64-65
Power supply type			220-240V-1Ph-50Hz			
Power input		W	165	262	400	440
Sound pressure level		dB (A)	37	39	45	46
Outline dimension(W×D×H)		mm	800×879×306	800×879×306	832×1016×380	832×1016×380
Package dimension(W×D×H)		mm	1050×1165×315	1050×1165×315	1087×1320×400	1087×1320×400
Net weight		kg	45	45	57	57
Gross weight		kg	53	53	66.5	66.5
Loading quantity		40'GP	147	147	85	59
		40'HQ	168	168	104	67
Standard wired remote controller			Z5N15			

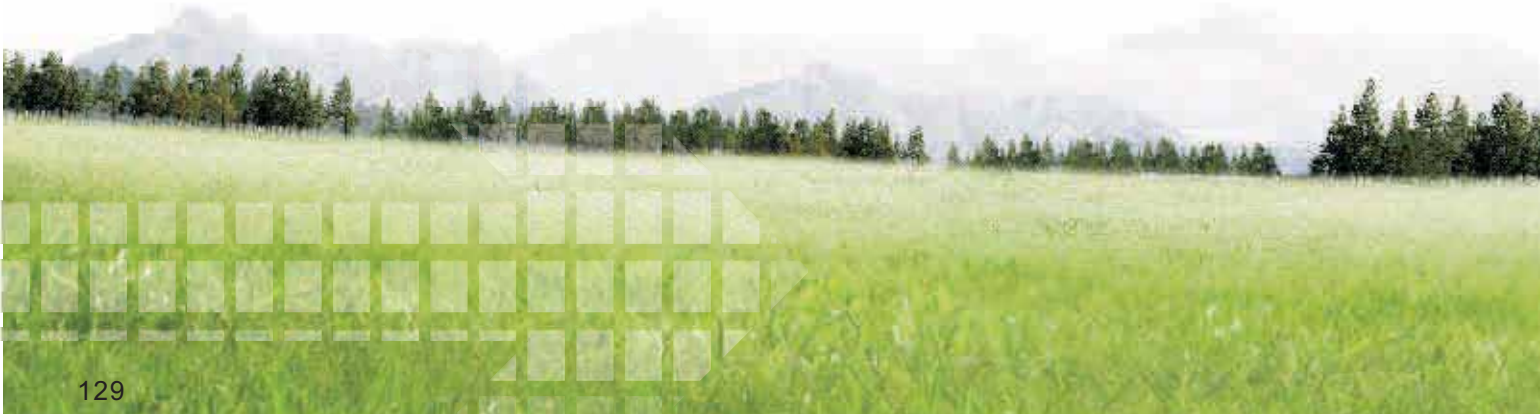
Model			FHBQ-D15-M	FHBQ-D20-M	FHBQ-D30-M
Air flow volume		m³/h	1500	2000	3000
External statics pressure		Pa	150	150	220
Temperature exchange efficiency		%	73	71	70
Enthalpy exchange efficiency-Heating		%	65	62	62
Enthalpy exchange efficiency-Cooling		%	60	58	58
Power supply type			380V-3Ph-50Hz		
Power input		W	600	950	2800
Sound pressure level		dB (A)	48	50	54
Outline dimension(W×D×H)		mm	1210×1215×452	1210×1215×452	1340×1550×572
Package dimension(W×D×H)		mm	1550×1540×470	1550×1540×470	1710×1610×700
Net weight		kg	100	100	240
Gross weight		kg	115	115	280
Loading quantity		40'GP	37	37	24
		40'HQ	44	44	24
Standard wired remote controller			Z5N15		

GREE 2011

GREE CENTRAL AIR CONDITIONER
making better air conditioners



SPECIAL AIR CONDITIONER





SPECIAL AIR CONDITIONERS

1. MARINE AIR CONDITIONER



Marine Air Conditioner



Marine Air Conditioner R410A



Gree CY series marine air conditioner uses seawater as exchanged heat sources to heat in winter and cool in summer, which is widely used in small-sized ship, yacht, custom boat etc.



- ◇ Flexibly disposed air supply system.
- ◇ 3 speed fan adjustable.
- ◇ Excellent cooling & heating performance.
- ◇ Compact design & easy installation.
- ◇ The system is controlled by microchip and processing many functions, including time-division delay starting, memory function, error alarm, temperature display (°C/°F) and so on.



- ◇ Anticorrosive
- ◇ Compact structure
- ◇ Wide operation range
- ◇ Long distance air supply
- ◇ Timed startup of mutiple units
- ◇ Micocomputer cotrol and optional remote controller
- ◇ Easy switchover between centigrade and fahrenheit
- ◇ Dual-drainage holes design lets the condensing water easily flow out.
- ◇ Indoor fan motor can be installed according to the air supply angle by 0°, 90°, 180° and 270°.

Item	Rated Test Condition			
	Air Side		Water Side	
	DB Temp.(°C)	WB Temp.(°C)	Inlet Temp.(°C)	Outlet Temp.(°C)
Cooling	27	19.5	24	30
Heating	20	15	15	-

Note: Water flow is rated on henting operation

Operation range of unit	Item	Water Side(°C)
	Cooling	10~40
	Heating	4~25



Model		Heat pump	CYR7/NaB-K ^{NEW}	CYR9/NaB-K ^{NEW}	CYR12/NaB-K ^{NEW}	CYR16/NaB-K ^{NEW}	
Total capacity	Cooling	W	2100	2600	3500	4600	
		Btu/h	7200	8900	11900	15700	
	Heating	W	2200	2800	3800	4750	
		Btu/h	7500	9500	13000	16200	
EER/C.O.P		W/W	3.62/3.24	3.42/3.29	3.68/3.45	3.83/3.39	
Electrical date	Power supply		V-Ph-Hz 220-240V-1Ph-50Hz				
	Power input	Cooling	KW	0.58	0.76	0.95	1.2
		Heating	KW	0.68	0.85	1.1	1.4
	Input current	Cooling	A	2.6	3.5	4.6	5.8
		Heating	A	3.1	3.9	5	6.7
Sound pressure level(H/M/L)*		dB(A)	58	58	58	58	
Refrigerant charge volume		Kg	0.39	0.4	0.51	0.6	
Air flow volume(H/M/L)		CFM	206/176/148	279/235/206	325/282/235	395/353/323	
		m ³ /h	350/300/250	470/400/350	550/480/400	750/600/550	
Dimension	Outline dimension (W×D×H)		mm	413×380×330	413×380×330	468×380×330	494×450×355
	Package dimension(W×D×H)		mm	545×500×370	545×500×370	554×545×376	622×590×400
Weight	Net weight		Kg	26.5	29	32.5	38
	Gross weight		Kg	31.5	32.5	38	43.5
Loading quantity		20°GP	264	264	204	135	
		40°GP	552	552	504	300	
		40°HQ	552	552	504	360	

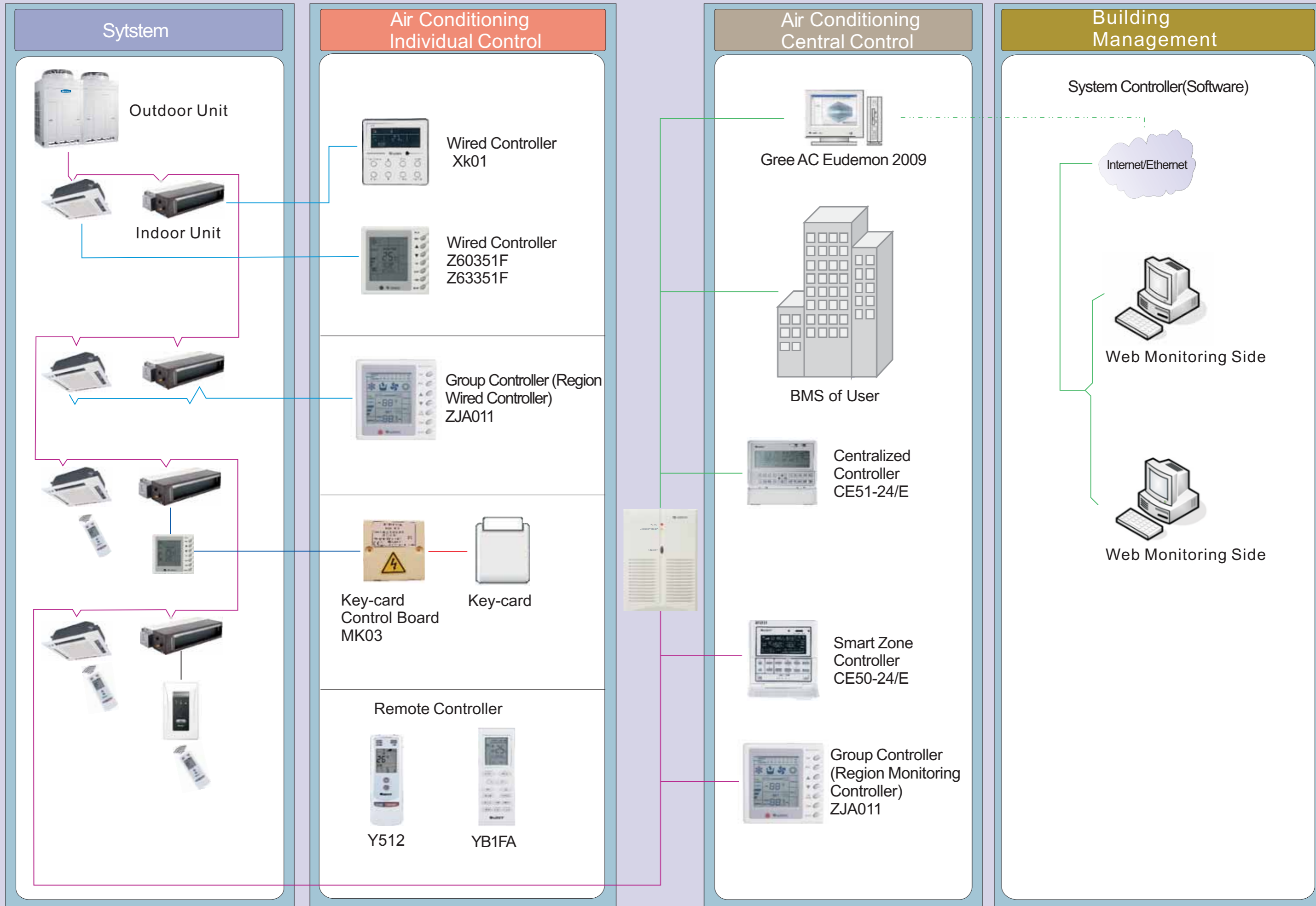




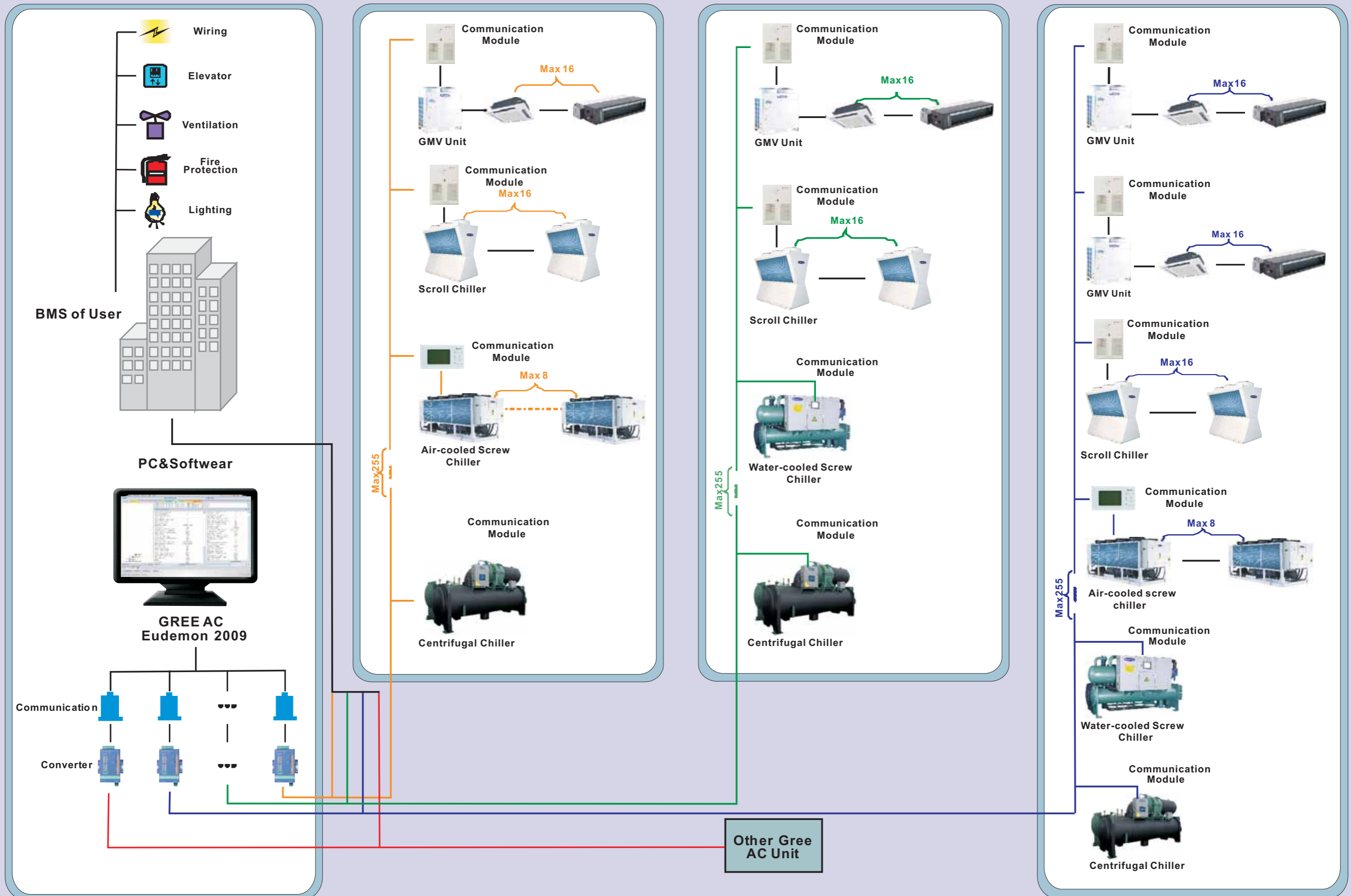


CONTROL SYSTEM








































GREE Long-distance Control System & BMS Interface



Matching Table of Units and Controllers

Class	Model Product		GMV multi VRF air duct type indoor unit	GMV multi VRF four-way cassette type indoor unit	GMV multi VRF one-way cassette type indoor unit	GMV multi VRF wall mountd type indoor unit	GMV multi VRF floor ceiling type indoor unit	Floor standing type	GMV multi VRF two-way cassette type indoor unit	Heat recovery multi VRF duct type indoor unit	Heat recovery multi VRF four-way cassette type indoor unit	Heat recovery rulti VRF one-way cassette type indoor unit	Heat recovery multi VRF floor ceiling type indoor unit	Hydro box	Heat recovery multi VRF wall mountd type indoor unit	Multi variable air conditioners outdoor air processing ducted type indoor unit	Console	
																		
Wireless Remote Controller	Y512 Remote Controller		●	●	●	●	●	●	●	●	●	●	●		●	●	○	
	YB1FA Remote Controller					● * 1									● * 1		●	
Wired Controller	Z60351F(Heat/Cool) GMV Wired Controller		●							●								
	Z60151F(Cool) GMV Wired Controller		●							●								
	Z63351F(Heat/Cool) GMV Wired Controller			●	●	●	●	●	●		●	●	●		●		●	
	Z63151F(Cool) GMV Wired Controller			●	●	●	●	●	●		●	●	●		●			
	ZX60451 GMV Wired Controller		○	○	○	○	○	○	○	○	○	○	○		○		○	
	Z6E351 (10P GMV Water Heater) GMV Wired Controller																●	
	Z6P301A (10P GMV Water Heater) GMV Wired Controller													●				
JS02 Receiver		○								○						○		
Long-distance Monitoring Software	GREE AC Eudemon 2009		○ * 3	○ * 3	○ * 3	○ * 3	○ * 3	○ * 3	○ * 3	○ * 3	○ * 3	○ * 3	○ * 3		○ * 3	○ * 3	○	
BMS Accessories	ME30-23/E(M) Communication Module for GMV (Modbus) (Old Edition)		○	○	○	○	○	○	○	○	○	○	○		○	○	○	
	ME30-00/E2 Communication Module for GMV(Modbus) (New Edition)		○	○	○	○	○	○	○	○	○	○	○		○	○	○	
	ZJ0212A Communication Module for GMV(Modbus) only applicable to DC Inverter 600&900		○	○	○	○	○	○	○	○	○	○	○		○	○	○	
Centralized Controller	ZJA011 Group Controller (Mini Centralized Controller)		○	○	○	○	○	○	○	○	○	○	○		○	○	○	
	CE51-24/E(M) Centralized Controller(Modbus)		○ * 2	○ * 2	○ * 2	○ * 2	○ * 2	○ * 2	○ * 2	○ * 2	○ * 2	○ * 2	○ * 2		○ * 2	○ * 2	○	
	CE50-24/E Smart Zone Controller		○	○	○	○	○	○	○	○	○	○	○		○	○	○	
Other Modules	MK03 Key-card Control Board		○	○	○	○	○	○	○	○	○	○	○		○	○	○	
	RS232-RS422/485 Optoelectronic Isolated Converter		○	○	○	○	○	○	○	○	○	○	○		○	○	○	
	RS-422/485 Optoelectronic Isolated Signal Multiplier		○	○	○	○	○	○	○	○	○	○	○		○	○	○	

Note:

All GMV indoor units are universally applicable to GMV outdoor units

Hydro box is only applicable to GPds series DC inverter GMV water heater unit.






























If complete unit equips with controller (● is standard part; ○ is optional; * is remarks)

1. Remote controller YB1FA is only applicable to new split units GMV (L) -R**G/NaG-D, GMV(L)-R**G/NaG-K and new floor ceiling indoor unit GMV- R**Zd/NaB-K, GMV-R**Zd/NaB-D.

2. If select centralized controller CE51-24/E(M), communication module, ME30-00/E2(large) or ZJ0212A(small) shall be selected. The selection shall refer to the actual models.





























3. If select remote monitoring GREE AC Eudemon 2009, communication modules ME30-22/E(M), ME30-00/E2(large) or ZJ0212 A(small) shall be selected. The selection shall refer to the actual models.

U-Match

















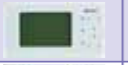
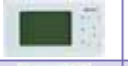



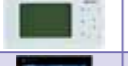








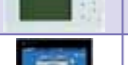









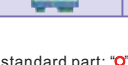
Class	Model Product		R22—50HZ—T3			High efficiency, constant frequency and universality R410A—50HZ—T1		R22—60HZ—T1				R22—60HZ—T3			R22—60HZ—T1			
			Air duct type unit	Cassette type unit	Floor ceiling type unit	Air duct type unit	Floor ceiling type unit	Air duct type unit	Cassette type unit	Floor ceiling type unit	Console	Floor Standing Type	Air duct type unit	Cassette type unit	Floor ceiling type unit	Air duct type unit	Cassette type unit	Floor ceiling type unit
																		
Wireless Remote Controller	YB1F2 Remote Controller		○	○	○	○	○	○	●	●	●	●	○	●	●	○	●	●
Wired Controller	Z4B351		●															
	Z4B351A Display Panel		○															
	Z7A351			●	●													
	Z7A351A Display Panel			○	○													
	Z4E351A U-Match Wired Controller		●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○
Long-distance Monitoring Software	Long-distance Monitoring Software GREE AC Eudemon 2009		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
BMS Accessories	ME30-00/E2 Communication Module for air duct type unit (Modbus)		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Centralized Controller	ZJ4011A Weekly Centralized Controller for Duct Type Unit		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Other Modules	Dq25 Controller		○															
	RS232-RS422/485 Optoelectronic Isolated Converter		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	RS-422/485 Optoelectronic Isolated Signal Multiplier		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	ZS401D single-phase Lowambient Speed Control Board		○	○	○	○	○	○										

Note: If complete unit equips with controller (● is standard part; ○ is optional; ** is remarks)

U-Match

Class	Model Product		R410A—50HZ—T1 Inverter Generation 1 and Generation 2			R410A—50HZ—T1 Inverter Universal A/A series				R410A—50HZ—T1 Non-Inverter			R22—50HZ—T1		
			Air duct type unit	Cassette type unit	Floor ceiling type unit	Air duct type unit	Cassette type unit	Floor ceiling type unit	Floor standing type	Air duct type unit	Cassette type unit	Floor ceiling type unit	Air duct type unit	Cassette type unit	Floor ceiling type unit
															
Wireless Remote Controller	ZY512A Remote control		●			●				○			○		
	Y512 Remote Controller(Y502)			●	●		●	●			○	○		○	○
	YB1F2 Remote Controller								●						
Wired Controller	Z4B351		●							●			●		
	Z4B351A Display Panel		○						○	○			○		
	Z7A351			●	●						●	●		●	●
	Z7A351A Display Panel			○	○						○	○		○	○
	Z4E351A U-Match Wired Controller		○	○	○	●	●	●	●	○	○	○	○	○	○
Long-distance Monitoring Software	Long-distance Monitoring Software GREE AC Eudemon 2009		○	○	○	○	○	○	○	○	○	○	○	○	○
BMS Accessories	ME30-00/E2 Communication Module for air duct type unit (Modbus)		○	○	○	○	○	○	○	○	○	○	○	○	○
Centralized Controller	ZJ4011A Weekly Centralized Controller for Duct Type Unit		○	○	○	○	○	○	○	○	○	○	○	○	○
Other Modules	Dq25 Controller		○			○				○			○		
	RS232-RS422/485 Optoelectronic Isolated Converter		○	○	○	○	○	○	○	○	○	○	○	○	○
	RS-422/485 Optoelectronic Isolated Signal Multiplier		○	○	○	○	○	○	○	○	○	○	○	○	○
	ZS401D single-phase Lowambient Speed Control Board									○	○	○	○	○	○

Note: If complete unit equips with controller (● is standard part; ○ is optional; ** is remarks)

			Other Model			Chiller						Heat Pump Water Heater					
Class	Product	Model	Air-cooled package	Marine AC	Rooftop air cooled	Integral condensing air cooled (heat pump) chiller	Combined condensing air cooled (heat pump) chiller	B series air cooled modular unit	C series air cooled modular unit	Water-cooled screw chiller	Centrifugal chiller	Modular air-cooled screw chiller	DC Inverter air-to-water heat pump unit	Commercial recurrent heat pump water heater	Residential recurrent pump water heater	Residential coil water heater	
																	
Chiller	Z22301 Display Panel for MB Series Modular Air Cooled							●									
	Z26301C Display Panel for MC Series Modular Air Cooled								●								
	Z2F31E Display Panel for LM Series Air Cooled Screw												● Heat pump				
	Z2F11E Display Panel for LM Series Air Cooled Screw Chiller												● Cooling only				
	Z12301A Display Panel for Integral Type Mini Chiller					●											
	Z15301 Display panel for Split Type Mini Chiller						●										
	CM18-GM8/A1(M) Touch Screen for Water Cooled Screw Chiller										● *2						
	Z2G1B Display panel for Water Cooled Screw Chiller										● *2						
	CM27-GM8/A1(M) Touch Screen for Gree Centrifugal chiller											●					
	Z5A35 Display Panel for MC Series Modular Air Cooled			●													
Long-distance Monitoring Software	Long-distance Monitoring Software GREE AC Eudemon 2009		○ *3						○ *3	○	○	○		○			
BMS Accessories	ME30-28/E(M) Communication Module for C Series Modular Chiller (Modbus)								○								
	ME30-00/E2 Communication Module for air duct type unit (Modbus)		○														
	Z2F31E Display Panel for LM Series Air Cooled Screw Chiller (Modbus) (BMS interface is equipped)												● *1 Heat pump				
	Z2F11E Display Panel for LM Series Air Cooled Screw Chiller (Modbus) (BMS interface is equipped)												● *1 Cooling only				
	CM18-GM8/A1(M) Touch Screen for Water Cooled Screw Chiller (Modbus) (BMS interface is equipped)										● *1 *2						
	Z2G1B Display panel for Water Cooled Screw Chiller (Modbus) (BMS interface is equipped)										● *1 *2						
	CM27-GM8/A1(M) Touch Screen for Gree Centrifugal chiller (Modbus) (BMS interface is equipped)											● *1					
	ME30-30/E2(M) Communication Module for Hot Water Unit (Modbus)														○		
BMS Interface of the Main Board													● *1				
Wired Controller	ZX60451C Display Panel														●	●	
	ZF0101 Wired Controller													●			
	WK110WA1 Controller for Rooftop Air Conditioner				○												
	ZF3351 Wired Controller for Air-to-water Heat Pump												●				
Other Modules	RS232-RS422/485 Optoelectronic Isolated Converter		○						○	○	○	○		○			
	Z103 Patch board					●	●						○				
	RS-422/485 Optoelectronic Isolated Signal Multiplier		○						○	○	○	○		○			






















Note: If complete unit equips with controller (● is standard part; ○ is optional; ** is remarks)

1. BMS interface is equipped with the standard part of the unit

2. There are two optional controllers for one model.

3. When selecting remote monitoring Gree AC Eudemon 2009, C series air-cooled modular units shall select communication module ME30-25/E(M) and its terminal shall be ZJ0212. Commercial water heater shall select ME30-30/E(M) and others shall select ME30-00/E2. The selection shall refer to actual models.

Terminal

Class	Model Product		Concealed ceiling type	Four-way cassette type unit	One-way cassette type unit	Wall mounted type	Floor ceilingtype	Air curtain	Energy-recovery ventilation system
									
Wireless Remote Controller	YB1FA Remote Controller				●	●			
	ZY611 Remote Control							●	
	Y512 Remote Controller			●			●		
Wired Controller	Z4E351B (new Terminal Wired Controller)			○	○	○			
	Z5K351 Universal Display Panel for Terminals (wall Mounted,cassette And Floor Ceiling Types)			○		○			
	Z5N151 Wired Controller								●
Thermostat	Luxury Digital Thermostat for Fan Coil		○						
	WK110PAO Digital Thermostat for Fan Coil		○						
Long-distance Monitoring Software	Long-distance Monitoring Software GREE AC Eudemon 2009			○* 3	○* 3	○* 3			○
BMS Accessories	ZJ0212 Communication Module for Terminal (Modbus)				○	○			
	ME30-17/E2(M) Communication Module for Terminal (Modbus)			○					
	BMS Interface of the Main Board								●* 1
Other Modules	RS232-RS422/485 Optoelectronic Isolated Converter			○	○	○			○
	RS-422/485 Optoelectronic Isolated Signal Multiplier			○	○	○			○

Note: If complete unit equips with controller ("●" is standard part; "○" is optional; "*" is remarks)

1. BMS interface is equipped with the standard part of the unit

2. There are two optional controllers for one model.

3. When selecting remote monitoring Gree AC Eudemon 2009, C series air-cooled modular units shall select communication module ME30-25/E(M) and its terminal shall be ZJ0212. commercial water heater shall select ME30-30/E(M) and others shall select ME30-00/E2. The selection shall refer to actual models.