



PRODUCTS CATALOGUE
COMMERCIAL AIR CONDITIONERS
T1, 50Hz, R410A&R134a

2012



GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI

Add: West Jinji Rd, Qianshan, Zhuhai, Guangdong, China 519070
Tel: (+86-756)8522218 Fax: (+86-756)8669426
Email: gree@gree.com.cn Http://www.gree.com

Specifications and appearance are subject to change without notice.
Copyright © Gree Electric Appliances, inc. of Zhuhai. All rights reserved.

GC-1109-1

Distributor information

COMPANY PROFILE

GREE Electric Appliances, Inc. of Zhuhai, founded in 1991, is the world's largest air conditioner enterprise integrating R&D, manufacturing, marketing and services. With more than 150 million users over 100 countries and regions, Gree have topped No.1 in global sales market since 2005. It has been ranked among the 'Top 100 Chinese Listed Companies' by Fortune for 9 consecutive years.



CONTENTS

Unitary	05
U-Match	07
Floor Ceiling Split Unit	20
Duct Split Unit	21
<hr/>	
Free Match	27
<hr/>	
GMV	33
Inverter Series	35
Digital Series	37
HOME GMV	41
Heat Recovery Series	51
Branching Joint	59
Air Processing Unit	60
ERV	62
<hr/>	
Chiller	67
Mini Chiller	68
Modular Air-cooled Scroll Chiller	71
Modular Air-cooled Screw Chiller	73
Water-cooled Screw Chiller	75
Centrifugal Chiller	77
<hr/>	
Terminal	81
Fan Coil Unit	83
Air Handling Unit	89
Air Curtain	94
Diffuser	95
<hr/>	
Air to Water	97
Air To Water Heat Pump Water Heater	99
Versati	100
<hr/>	
Specialized Air Conditioner	103
Marine Air Conditioner	105
Close Control Air Conditioner	106

Some Parts



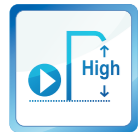
Golden fin condenser

Anti-corrosive performance of golden fin is 3 times better than normal Fin.



Inner groove copper

Special thickened inner groove copper tube enhances heat exchanging performance.



Built-in drain pump

The drain pump can pump the condensation to a high level. It facilitates condensation draining from the indoor unit and makes the installation of indoor unit easier.



Washable filter

Filters are easy to dismantle and install. You can use dirt collector or water to clear away the dust.



Quality motor

Quality motor makes operation steady and in low noise.



Auxiliary electric heater

Auxiliary heater greatly improves heating capacity and saves energy.

High Efficiency & Energy Saving



High efficiency

The air conditioner is designed to high energy efficiency and realizes power saving.



Intelligent defrosting

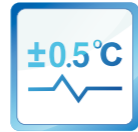
Monitoring intelligently to insure defrosting is performed if necessary. It improves heating efficiency and saves power.



Energy saving function

When this function is activated, the temperature setting is only in limited range, so that the energy is saved.

Comfortable & Healthy



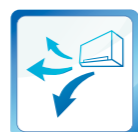
Precise temperature control

The temperature fluctuation can be controlled within plus and minus 0.5 C.



Vertical swing

Air discharge flaps can automatic move vertically for efficient air and temperature distribution throughout the room.



Horizontal swing

Air discharge Louvre can automatic move horizontally for efficient air and temperature distribution throughout the room.



Anti-cold function

The indoor unit will not blow in the winter if the air is not warm enough.



Turbo function

To run with strong power and make you feel comfortable(cool or warm) quickly.



Fresh air supply ventilation

The unit can introduce a certain percentage of fresh air to satisfy the fresh air requirement.



Comfortable sleeping mode

The setting temperature and the indoor noise can be adjusted to a more comfortable level when you set the "sleeping mode".



Quiet function

Unit is ensured to operate with the lowest noise by ultra-low fan speed and auto adjustment according to system parameter.

Convenience



Memory function

Unit is able to remember the operations before power failure and automatically returns to those operations when power restored.



Compact design

Unit is designed with smaller dimension, which is easy to install and transport, and saves the cost.



Easier maintainability

The unit is designed to be easier maintenance and component replacement.

Reliability



Auto clean

After unit turn off , the indoor fan will keep running in low speed for a moment to dry the inner components and parts, in order to prevent mildew and keep users healthy.



Self-diagnosis

Malfunction codes are shown on the display panel for fast and easy maintenance when problem occur.



Low voltage startup

Unit is able to safely started when voltage below standard.



Low temperature heating

Unit is able to start and operate in normal when the ambient temperature is lower than -20 C and heating capacity remains still.



Modular operating

A several units can operate together as modules, so that capacity output control is more precise, and also higher reliability.



Comprehensive protection

The unit is designed with various of protection functions to ensure the reliability.

Versatility



High ESP

The external static pressure range is higher, which ensures longer delivery distance for air to provide powerful cooling.



Wide voltage range

The unit can operate in wide range, greatly reducing the ambient temperature limitation.



Wide operation range

Unit can operate in wide range, greatly reducing the ambient temperature limitation.



Multi fan speed

The fan can operate with multi speeds and satisfy different air flow volume requirement.



Modular structure

High efficiency compressor presents reliable performance.

Control



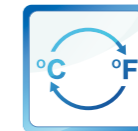
24 hour timer

Unit can be set to turn on or turn off at anytime in a day.(The timing interval is 5-minute.)



Weekly timer

Can be set Or start heating or cooling anytime on a daily or weekly basis.



°C/°F switch

Under status of unit off, press MODE and "-" buttons simultaneity to switch C/F .



Clock display

Time is shown on remote controller .



Child lock

Avoid the child's wrong operation on the remote controller.



Key-card control

The Key-card control function is especially designed for the hotel rooms, by removing the key-card the air conditioner can automatically switched to stand-by status.



Centralized control

Starts, stops and regulates the air conditioner from a distance.



Long-distance monitoring

Long-distance monitoring enables the unit to be controlled and monitored from a long distance.



Shield function

Remote control the indoor unit and shield the functions of wired controller which include ON/OFF, temp or mode setting, energy-saving function, etc.

UNITARY

U-MATCH
FLOOR CEILING UNIT
DUCT SPLIT UNIT
CONTROL SYSTEM LINEUP

U-Match



Super Inverter Series

It is a kind of split system that the outdoor unit can be freely connected to different types of indoor units according to various indoor decoration requirements.



- Double ambient temperature sensor design makes a precision temperature monitoring.
- Low start-up current thanks to power delay control design.
- Higher efficiency thanks to sine wave DC inverter compressor control.
- High reliability and easy maintenance thanks to one piece integrated PCB board.
- Stable cooling under -15°C outdoor environment temperature (for the unit CUHD*C10).



Indoor Unit

Duct type

- Drain pump fitted as standard with increased lift of 1100mm.
- Fresh air inlet and air valve control function improve the indoor air quality.
- Flexible air in/outlet and condensing water outlet direction according to different installation requirements.
- Optimized air duct design improves the performance and lower the noise.

Cassette type

- Drain pump fitted as standard with increased lift of 1100mm.
- Special low noise fan design.
- Different swing angle design for cooling and heating mode for better comfort.

Floor ceiling type

- 3-D air flue design.
- Easy replacement of motor and fan blade thanks to clamp block propeller design.
- Different swing angle design for cooling and heating mode for better comfort.

Item	Nominal operating condition (temperature)				Operation range (temperature) Outdoor condition DB (°C)
	Outdoor condition		Indoor condition		
	DB (°C)	WB (°C)	DB (°C)	WB (°C)	
Cooling	35	24	27	19	-15~48(with low ambient cooling) 18~48(without low ambient cooling)
Heating	7	6	20	15	-7~24

Units Lineup

Capacity Index (Btu/h)		9K	12K	18K	24K	30K
Indoor Unit	Outdoor Unit	 GUHD09NK3CO GUHD09NK3C10	 GUHD12NK3CO GUHD12NK3C10	 GUHD18NK3CO GUHD18NK3C10	 GUHD24NK3CO GUHD24NK3C10	 GUHD30NK3CO GUHD30NK3C10
	Duct	 GFH09K3CI	 GFH12K3CI	 GFH18K3CI	 GFH24K3CI	 GFH30K3CI
	Cassette	—	 GKH12K3CI	 GKH18K3CI	 GKH24K3CI	 GKH30K3CI
	Floor Ceiling	 GTH09K3CI	 GTH12K3CI	 GTH18K3CI	 GTH24K3CI	 GTH30K3CI

Capacity Index (Btu/h)		36K	42K	48K	60K
Indoor Unit	Outdoor Unit	 GUHD36NK3CO GUHD36NK3C10 GUHD36NM3CO GUHD36NM3C10	 GUHD42NK3CO GUHD42NK3C10 GUHD42NM3CO GUHD42NM3C10	 GUHD48NK3CO GUHD48NK3C10	 GUHD48NM3CO GUHD48NM3C10 GUHD60NM3CO GUHD60NM3C10
	Duct	 GFH36K3CI	 GFH42K3CI	 GFH48K3CI	 GFH60K3CI
	Cassette	 GKH36K3CI	 GKH42K3CI	—	—
	Floor Ceiling	 GTH36K3CI	 GTH42K3CI	 GTH48K3CI	 GTH60K3CI

Model	Outdoor unit		GUHD09NK3CO			GUHD12NK3CO		
	Indoor unit		Duct	Floor Ceiling	Duct	Cassette	Floor Ceiling	
			GFH09K3CI	GTH09K3CI	GFH12K3CI	GKH12K3CI	GTH12K3CI	
Capacity	Cooling	W	2700(1150-3000)	3000(1600-3500)	3500(1600-3600)	3400(1600-3600)	3400(1600-3600)	
		Btu/h	9212(3924-10236)	10236(5459-11942)	12000(5459-12283)	11600(5459-12283)	11600(5459-12283)	
	Heating	W	2900(1000-3000)	3000(1400-3800)	3800(1600-4000)	3700(1600-4000)	3800(1360-4100)	
Btu/h		9895(3412-10236)	10236(4777-12966)	13000(5499-13648)	12600(5459-13648)	13000(4640-13989)		
EER/COP	W/W		3.25/3.61	3.50/4.00	3.25/3.90	3.30/3.61	3.21/4.10	
Power supply	PhV/Hz		1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	
Power input	Cooling	kW	0.83(0.36-1.25)	0.857(0.49-1.18)	1.077(0.48-1.12)	1.03(0.43-1.35)	1.059(0.39-1.28)	
	Heating	kW	0.803(0.34-1.10)	0.75(0.43-1.08)	0.974(0.40-1.18)	1.025(0.39-1.20)	0.927(0.34-1.04)	
Current input	Cooling	A	3.7(1.6-5.5)	3.8(2.2-5.2)	4.8(2.1-4.9)	4.6(1.9-5.9)	4.7(1.7-5.6)	
	Heating	A	3.6(1.5-4.8)	3.3(1.9-4.8)	4.3(1.8-5.2)	4.6(1.7-5.3)	4.1(1.5-4.6)	
Refrigerant charge volume	kg		1.20	1.20	1.35	1.35	1.35	
Indoor unit	Air flow volume		CFM	470/412/353	380/324/265	494/435/376	365/265/206	410/353/294
			m³/h	800/700/600	650/550/450	840/740/640	550/450/350	700/600/500
	ESP	Rated	Pa	25	—	25	—	—
		Range	Pa	0-25	—	0-25	—	—
	Sound pressure level (H/M/L)	dB(A)		37/35/33	39/37/35	37/35/33	47/45/43	39/37/35
	Dimension (WxDxH)	Outline	mm	880x665x250	1220x700x225	980x721x266	600x600x230	1220x700x225
		Package	mm	1023x748x320	1343x823x315	1123x798x323	851x681x325	1343x823x315
Net weight/Gross weight	kg		26/32	40/49	34/41	20/27	40/49	
Panel	Dimension (WxDxH)	Outline	mm	—	—	650x650x50	—	
		Package	mm	—	—	673x733x117	—	
	Net weight/Gross weight	kg		—	—	2.5/3.5	—	
Outdoor unit	Sound pressure level		dB(A)			53		
	Dimension (WxDxH)	Outline	mm			776x320x540		
		Package	mm			851x363x595		
	Net weight/Gross weight	kg		28/32		30/34		
Connection pipe	Outer diameter	Liquid	inch		Φ1/4			
		Gas	inch		Φ3/8			
	Max.distance	Height/Length		m		15/20		
Loading quantity	40'GP/40'HQ		—	127/141	102/116	116/133	123/157	102/116

Model	Outdoor unit		GUHD18NK3CO			GUHD24NK3CO			
	Indoor unit		Duct	Cassette	Floor Ceiling	Duct	Cassette	Floor Ceiling	
			GFH18K3CI	GKH18K3CI	GTH18K3CI	GFH24K3CI	GKH24K3CI	GTH24K3CI	
Capacity	Cooling	W	5300(1600-5800)	5300(1900-5500)	5300(1300-5500)	7000(2000-7700)	7000(2400-8300)	7000(3000-7800)	
		Btu/h	18000(5460-19800)	18000(6500-18700)	18000(4400-18700)	24000(6800-26200)	24000(8100-28300)	24000(10200-26600)	
	Heating	W	6150(1400-6500)	6150(1500-6600)	6150(1500-6600)	7500(2400-8000)	8000(2400-8500)	8000(2400-8500)	
Btu/h		21000(4700-22000)	21000(5100-22500)	21000(5100-22500)	25500(8100-27300)	27000(8100-29000)	27000(8100-29000)		
EER/COP	W/W		3.21/3.62	3.21/3.62	3.21/3.62	3.21/3.62	3.21/3.62	3.21/3.62	
Power supply	PhV/Hz		1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	
Power input	Cooling	kW	1.65(0.55-1.75)	1.65(0.55-1.75)	1.65(0.55-1.75)	2.18(0.85-2.50)	2.18(0.85-2.50)	2.18(0.85-2.50)	
	Heating	kW	1.70(0.50-1.90)	1.70(0.50-1.90)	1.70(0.50-1.90)	2.07(0.80-2.65)	2.21(0.80-2.78)	2.21(0.80-2.78)	
Current input	Cooling	A	7.0(2.3-7.5)	7.0(2.3-7.5)	7.0(2.3-7.5)	9.6(3.7-11.1)	9.6(3.7-11.1)	9.6(3.7-11.1)	
	Heating	A	7.3(2.1-8.2)	7.3(2.1-8.2)	7.3(2.1-8.2)	9.1(3.5-11.8)	9.8(3.5-12.3)	9.8(3.5-12.3)	
Refrigerant charge volume	kg		1.40	1.40	1.40	2.40	2.40	2.40	
Indoor unit	Air flow volume		CFM	586/470/353	695/636/589	530/470/412	942/824/706	824/747/689	706/618/530
			m³/h	1000/800/600	1180/1080/1000	900/800/700	1600/1400/1200	1400/1270/1170	1200/1050/900
	ESP	Rated	Pa	25	—	—	25	—	—
		Range	Pa	0-25	—	—	0-100	—	—
	Sound pressure level (H/M/L)	dB(A)		42/38/36	47/45/43	45/42/39	47/44/42	51/49/48	52/49/46
	Dimension (WxDxH)	Outline	mm	980x721x266	840x840x240	1220x700x225	1270x530x268	840x840x240	1220x700x225
		Package	mm	1123x798x323	963x963x325	1343x823x315	1348x579x283	963x963x325	1343x823x315
Net weight/Gross weight	kg		46/51	27/36	42/51	37/43	27/36	43/52	
Panel	Dimension (WxDxH)	Outline	mm	—	950x950x60	—	950x950x60	—	
		Package	mm	—	1028x1043x130	—	1028x1043x130	—	
	Net weight/Gross weight	kg		—	6.5/10	—	6.5/10	—	
Outdoor unit	Sound pressure level		dB(A)			57			
	Dimension (WxDxH)	Outline	mm			955x396x700			
		Package	mm			1029x458x750			
	Net weight/Gross weight	kg		48/53		65/70		—	
Connection pipe	Outer diameter	Liquid	inch		Φ1/4				
		Gas	inch		Φ5/8				
	Max.distance	Height/Length		m		15/20			
Loading quantity	40'GP/40'HQ		—	93/95	72/77	97/89	76/89	64/71	70/86

Model	Outdoor unit		GUHD30NK3CO			GUHD36NK3CO			
	Indoor unit		Duct	Cassette	Floor Ceiling	Duct	Cassette	Floor Ceiling	
			GFH30K3CI	GKH30K3CI	GTH30K3CI	GFH36K3CI	GKH36K3CI	GTH36K3CI	
Capacity	Cooling	W	8200(2700-8300)	8800(3000-9100)	8800(3100-9000)	10000(3500-11500)	10000(3000-11500)	10500(3500-13000)	
		Btu/h	28000(9200-28300)	30000(10200-31000)	30000(10500-30700)	34120(11940-39238)	34120(10236-39238)	35826(11940-44356)	
	Heating	W	8800(2000-9300)	9500(2500-9900)	9500(2700-9900)	11500(3800-12800)	11000(3500-12800)	11500(3500-12500)	
Btu/h		30000(6800-31700)	32400(8500-33700)	32400(9200-33700)	39238(12965-43670)	37532(11940-43670)	39238(11940-42650)		
EER/COP	W/W		3.22/3.62	3.21/3.61	3.21/3.61	3.21/3.61	3.21/3.61	3.21/3.61	
Power supply	PhV/Hz		1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	
Power input	Cooling	kW	2.55(0.84-3.20)	2.74(0.85-2.98)	2.74(0.85-2.98)	3.115(1.38-4.18)	3.115(1.04-4.20)	3.27(1.08-4.04)	
	Heating	kW	2.43(0.80-2.75)	2.63(0.70-2.72)	2.63(0.70-2.72)	3.18(1.24-3.68)	3.047(0.90-3.52)	3.18(0.95-3.84)	
Current input	Cooling	A	11.2(3.7-14.2)	12.1(3.7-13.2)	12.1(3.7-13.2)	13.8(6.1-18.4)	13.8(4.6-18.5)	14.5(4.7-17.7)	
	Heating	A	10.7(3.5-12.2)	11.6(3.1-12.1)	11.6(3.1-12.1)	14.1(5.5-16.2)	13.5(3.9-15.5)	14.1(4.2-16.9)	
Refrigerant charge volume	kg		2.60	2.60	2.60	3.80	3.80	3.80	
Indoor unit	Air flow volume		CFM	942/824/706	977/924/883	942/853/765	1353/1241/1088	977/924/883	1176/959/895
			m³/h	1500/1300/1100	1660/1570/1500	1600/1450/1300	2300/2110/1850	1660/1570/1500	2000/1630/1520
	ESP	Rated	Pa	37	—	—	37	—	—
		Range	Pa	0-100	—	—	0-150	—	—
	Sound pressure level (H/M/L)	dB(A)		47/44/42	53/51/48	50/48/46	53/50/46	53/51/48	54/51/48
	Dimension (WxDxH)	Outline	mm	1270x530x268	840x840x320	1420x700x245	1226x775x290	840x840x320	1420x700x245
		Package	mm	1348x597x283	963x963x409	1548x828x345	1338x877x305	963x963x409	1548x828x345
Net weight/Gross weight	kg		36/41	32/43	51/58	57/67	32/43	53/61	
Panel	Dimension (WxDxH)	Outline	mm	—	950x950x60	—	950x950x60	—	
		Package	mm	—	1028x1043x130	—	1028x1043x130	—	
	Net weight/Gross weight	kg		—	6.5/10	—	6.5/10	—	
Outdoor unit	Sound pressure level		dB(A)			59			
	Dimension (WxDxH)	Outline	mm			980x427x790			
		Package	mm			1083x488x855			
	Net weight/Gross weight	kg		68/74		90/101		—	
Connection pipe	Outer diameter	Liquid	inch		Φ3/8				
		Gas	inch		Φ5/8				
	Max.distance	Height/Length		m		15/30			
Loading quantity	40'GP/40'HQ		—	76/89	49/69	57/67	45/49	46/46	46/46

Model	Outdoor unit		GUHD36NM3CO			GUHD42NK3CO			
	Indoor unit		Duct	Cassette	Floor Ceiling	Duct	Cassette	Floor Ceiling	
			GFH36K3CI	GKH36K3CI	GTH36K3CI	GFH42K3CI	GKH42K3CI	GTH42K3CI	
Capacity	Cooling	W	10300(3500-11500)	10000(3000-11500)	10500(3500-13000)	11000(3500-13000)	11000(3500-13000)	11500(3500-13000)	
		Btu/h	35140(11940-39238)	34120(10236-39238)	35800(11940-44356)	37530(11940-44350)	37530(11940-44350)	39238(11940-44350)	
	Heating	W	11500(3800-12800)	11000(3500-12800)	11500(3500-12500)	12500(3800-14500)	12000(3800-14500)	12500(3500-14200)	
Btu/h		39238(12965-43670)	37532(11940-43670)	39238(11940-42650)	42650(12965-49470)	40944(12960-49470)	42650(11940-48450)		
EER/COP	W/W		3.21/3.61	3.21/3.61	3.21/3.61	3.21/3.61	3.21/3.61	3.21/3.61	
Power supply	PhV/Hz		3/380-415/50	3/380-415/50	3/380-415/50	1/220-240/50	1/220-240/50	1/220-240/50	
Power input	Cooling	kW	3.2(1.35-4.10)	3.115(1.02-4.10)	3.27(1.08-4.00)	3.42(0.86-4.15)	3.42(0.90-4.26)	3.58(0.85-4.06)	
	Heating	kW	3.18(1.22-3.68)	3.047(0.90-3.84)	3.180(0.96-3.75)	3.46(0.76-3.70)	3.324(0.79-4.08)	3.46(0.72-3.82)	
Current input	Cooling	A	4.8(2.1-6.1)	4.6(1.6-6.1)	4.9(1.7-6.0)	15.2(3.8-18.2)	15.2(4.0-18.7)	15.88(3.7-17.8)	
	Heating	A	4.7(1.9-5.5)	4.5(1.4-5.7)	4.7(1.5-5.6)	15.1(3.3-16.3)	14.7(3.5-17.9)	15.35(3.2-16.8)	
Refrigerant charge volume	kg		3.80	3.80	3.80	3.80	3.80	3.80	
Indoor unit	Air flow volume		CFM	1353/1241/1088	977/924/883	1176/959/895	1353/1241/1088	977/924/883	1176/959/895
			m³/h	2300/2110/1850	1660/1570/1500	2000/1630/1520	2300/2110/1850	1660/1570/1500	2000/1630/1520
	ESP	Rated	Pa	37	—	—	37	—	—
		Range	Pa	0-150	—	—	0-150	—	—
	Sound pressure level (H/M/L)	dB(A)		53/50/46	53/51/48	54/51/48	53/50/46	53/51/48	54/51/48
	Dimension (WxDxH)	Outline	mm	1226x775x290	840x840x320	1420x700x245	1226x775x290	840x840x320	1420x700x245

Model	Outdoor unit		GUHD42NM3CO			GUHD48NK3CO		
	Indoor unit		Duct	Cassette	Floor Ceiling	Duct	Floor Ceiling	
			GFH42K3CI	GKH42K3CI	GTH42K3CI	GFH48K3CI	GTH48K3CI	
Capacity	Cooling	W	11000(3500-13000)	11000(3500-13000)	11500(3500-13000)	14000(4900-14100)	14000(5000-14300)	
		Btu/h	37530(11940-44350)	37530(11940-44350)	39238(11940-44350)	48000(16500-48000)	48000(17000-48620)	
Capacity	Heating	W	12500(3800-14500)	12000(3800-14500)	12500(3500-14200)	16500(5300-18300)	16500(5200-18400)	
		Btu/h	42650(12965-49470)	40944(12960-49470)	42650(11940-48450)	56300(18020-62220)	56300(17700-62600)	
EER/COP		W/W	3.21/3.61	3.21/3.61	3.21/3.61	3.22/3.67	3.33/3.75	
Power supply		Ph/V/Hz	3/380-415/50	3/380-415/50	3/380-415/50	1/220-240/50	1/220-240/50	
Power input	Cooling	kW	3.42(1.34-4.52)	3.42(1.04-4.32)	3.58(1.08-4.26)	4.35(1.62-5.34)	4.20(1.15-4.98)	
	Heating	kW	3.46(1.23-4.10)	3.320(0.92-4.02)	3.46(0.96-3.88)	4.50(1.46-5.34)	4.40(0.98-5.08)	
Current input	Cooling	A	5.5(2.1-6.8)	5.5(1.6-6.5)	5.6(1.7-6.4)	20.0(7.1-23.5)	20.0(5.1-21.8)	
	Heating	A	5.5(1.9-6.1)	5.0(1.4-6.0)	5.4(1.5-5.8)	21.0(6.4-23.5)	21.0(4.3-22.3)	
Refrigerant charge volume		kg	3.80	3.80	3.80	4.30	4.30	
Indoor unit	Air flow volume		CFM	1353/1241/1088	977/924/883	1176/959/895	1470/1353/1236	1353/1236/1118
			m³/h	2300/2110/1850	1660/1570/1500	2000/1630/1520	2500/2300/2100	2300/2100/1900
	ESP	Rated	Pa	37	—	—	50	—
		Range	Pa	0-150	—	—	0-150	—
	Sound pressure level (H/M/L)		dB(A)	53/50/46	53/51/48	54/51/48	53/50/46	58/55/52
	Dimension (WxDxH)	Outline	mm	1226x775x290	840x840x320	1420x700x245	1226x815x330	1700x700x245
		Package	mm	1338x877x305	963x963x409	1548x828x345	1338x925x345	1828x828x345
Net weight/Gross weight		kg	57/67	32/43	55/63	64/73	64/72	
Panel	Dimension (WxDxH)	Outline	mm	—	950x950x60	—	—	
		Package	mm	—	1028x1043x130	—	—	
	Net weight/Gross weight		kg	—	6.5/10	—	—	
Outdoor unit	Sound pressure level		dB(A)	61			61	
	Dimension (WxDxH)	Outline	mm	1107x440x1100			1085x427x1365	
		Package	mm	1158x493x1235			1143x478x1505	
	Net weight/Gross weight		kg	92/103			116/128	
Connection pipe	Outer diameter	Liquid	inch	φ3/8			φ3/8	
		Gas	inch	φ5/8			φ5/8	
	Max. distance	Height/Length	m	30/50			30/50	
Loading quantity			45/49	46/46	46/46	40/48	41/46	

Model	Outdoor unit		GUHD48NM3CO		GUHD60NM3CO			
	Indoor unit		Duct	Floor Ceiling	Duct	Floor Ceiling		
			GFH48K3CI	GTH48K3CI	GFH60K3CI	GTH60K3CI		
Capacity	Cooling	W	14000(4900-14100)	14000(5000-14300)	17000(4000-17500)	16000(4000-16500)		
		Btu/h	48000(16500-48000)	48000(17000-48620)	58000(13600-59700)	54500(13600-56300)		
Capacity	Heating	W	16500(5300-18300)	16500(5200-18400)	18000(5000-18800)	17500(4500-18300)		
		Btu/h	56300(18020-62220)	56300(17700-62600)	61400(17000-64100)	59700(15300-62400)		
EER/COP		W/W	3.22/3.67	3.33/3.75	3.21/3.61	3.21/3.62		
Power supply		Ph/V/Hz	3/380-415/50	3/380-415/50	3/380-415/50	3/380-415/50		
Power input	Cooling	kW	4.35(1.60-5.36)	4.20(1.42-5.14)	5.29(1.68-6.38)	4.98(1.52-6.04)		
	Heating	kW	4.50(1.44-5.32)	4.40(1.28-5.25)	4.98(1.40-5.46)	4.84(1.29-6.33)		
Current input	Cooling	A	6.4(2.5-8.0)	6.2(2.2-7.7)	7.8(2.6-9.5)	7.4(2.3-9.0)		
	Heating	A	6.7(2.2-8.0)	6.5(2.0-7.8)	7.4(2.2-8.2)	7.2(2.0-9.5)		
Refrigerant charge volume		kg	4.30	4.30	5.50	5.50		
Indoor unit	Air flow volume		CFM	1470/1353/1236	1353/1236/1118	1854/1709/1530	1353/1236/1118	
			m³/h	2500/2300/2100	2300/2100/1900	3150/2900/2600	2300/2100/1900	
	ESP	Rated	Pa	50	—	50	—	
		Range	Pa	0-150	—	0-150	—	
	Sound pressure level (H/M/L)		dB(A)	53/50/46	58/55/52	54/51/48	58/55/52	
	Dimension (WxDxH)	Outline	mm	1226x815x330	1700x700x245	1463x799x389	1700x700x245	
		Package	mm	1338x925x345	1828x828x345	1543x883x470	1828x828x345	
Net weight/Gross weight		kg	64/73	64/72	87/115	65/73		
Panel	Dimension (WxDxH)	Outline	mm	—	—	—		
		Package	mm	—	—	—		
	Net weight/Gross weight		kg	—	—	—		
Outdoor unit	Sound pressure level		dB(A)	61			63	
	Dimension (WxDxH)	Outline	mm	1085x427x1365			1085x427x1365	
		Package	mm	1143x478x1505			1143x478x1505	
	Net weight/Gross weight		kg	116/128			121/133	
Connection pipe	Outer diameter	Liquid	inch	φ3/8			φ3/8	
		Gas	inch	φ5/8			φ5/8	
	Max. distance	Height/Length	m	30/50			30/50	
Loading quantity			40/48	41/46	34/35	41/46		

Low Ambient Cooling

Model	Outdoor unit		GUHD09NK3C1O		GUHD12NK3C1O			
	Indoor unit		Duct	Floor Ceiling	Duct	Floor Ceiling		
			GFH09K3CI	GTH09K3CI	GFH12K3CI	GTH12K3CI		
Capacity	Cooling	W	2700(1150-3000)	3000(1600-3500)	3500(1600-3600)	3400(1600-3600)	3400(1600-3600)	
		Btu/h	9212(3924-10236)	10236(5459-11942)	12000(5459-12283)	11600(5459-12283)	11600(5459-12283)	
Capacity	Heating	W	2900(1000-3000)	3000(1400-3800)	3800(1600-4000)	3700(1600-4000)	3800(1360-4100)	
		Btu/h	9895(3412-10236)	10236(4777-12966)	13000(5499-13648)	12600(5459-13648)	13000(4640-13989)	
EER/COP		W/W	3.25/3.61	3.50/4.00	3.25/3.90	3.30/3.61	3.21/4.1	
Power supply		Ph/V/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	
Power input	Cooling	kW	0.83(0.45-1.20)	0.857(0.40-1.20)	1.077(0.48-1.40)	1.03(0.45-1.40)	1.059(0.48-1.40)	
	Heating	kW	0.803(0.45-1.20)	0.75(0.40-1.20)	0.974(0.45-1.20)	1.025(0.4-1.20)	0.927(0.45-1.20)	
Current input	Cooling	A	3.7(2.1-5.5)	3.8(1.8-5.5)	4.8(2.2-6.4)	4.6(2.2-6.4)	4.7(2.2-6.4)	
	Heating	A	3.6(2.1-5.5)	3.3(1.8-5.5)	4.3(2.1-5.5)	4.6(1.8-5.5)	4.1(2.1-5.5)	
Refrigerant charge volume		kg	1.20	1.20	1.25	1.25	1.25	
Indoor unit	Air flow volume		CFM	470/412/353	380/324/265	494/435/376	365/265/206	410/353/294
			m³/h	800/700/600	650/550/450	840/740/640	550/450/350	700/600/500
	ESP	Rated	Pa	25	—	25	—	—
		Range	Pa	0-25	—	0-25	—	—
	Sound pressure level (H/M/L)		dB(A)	37/35/33	39/37/35	37/35/33	47/45/43	39/37/35
	Dimension (WxDxH)	Outline	mm	880x665x250	1220x700x225	980x721x266	600x600x230	1220x700x225
		Package	mm	1023x748x320	1343x823x315	1123x798x323	851x861x325	1343x823x315
Net weight/Gross weight		kg	26/32	40/49	34/41	20/27	40/49	
Panel	Dimension (WxDxH)	Outline	mm	—	—	650x650x50	—	
		Package	mm	—	—	673x733x117	—	
	Net weight/Gross weight		kg	—	—	2.5/3.5	—	
Outdoor unit	Sound pressure level		dB(A)	53			54	
	Dimension (WxDxH)	Outline	mm	848x320x540			848x320x540	
		Package	mm	1023x363x595			881x363x595	
	Net weight/Gross weight		kg	33/37			33/37	
Connection pipe	Outer diameter	Liquid	inch	φ1/4			φ1/4	
		Gas	inch	φ3/8			φ3/8	
	Max. distance	Height/Length	m	15/20			15/20	
Loading quantity			126/141	96/112	114/131	128/144	96/112	

Model	Outdoor unit		GUHD18NK3C1O			GUHD24NK3C1O			
	Indoor unit		Duct	Cassette	Floor Ceiling	Duct	Cassette	Floor Ceiling	
			GFH18K3CI	GKH18K3CI	GTH18K3CI	GFH24K3CI	GKH24K3CI	GTH24K3CI	
Capacity	Cooling	W	5300(1600-5800)	5300(1900-5500)	5300(1300-5500)	7000(2000-7700)	7000(2400-8300)	7000(3000-7800)	
		Btu/h	18000(5460-19800)	18000(6500-18700)	18000(4400-18700)	24000(6800-26200)	24000(8100-28300)	24000(10200-26600)	
Capacity	Heating	W	6150(1400-6500)	6150(1500-6600)	6150(1500-6600)	7500(2400-8000)	8000(2400-8500)	8000(2400-8500)	
		Btu/h	21000(4700-22000)	21000(5100-22500)	21000(5100-22500)	25500(8100-27300)	27000(8100-29000)	27000(8100-29000)	
EER/COP		W/W	3.21/3.62	3.21/3.62	3.21/3.62	3.21/3.62	3.21/3.62	3.21/3.62	
Power supply		Ph/V/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	
Power input	Cooling	kW	1.65(0.55-1.75)	1.65(0.55-1.75)	1.65(0.55-1.75)	2.18(0.85-2.50)	2.18(0.85-2.50)	2.18(0.85-2.50)	
	Heating	kW	1.70(0.50-1.90)	1.70(0.50-1.90)	1.70(0.50-1.90)	2.07(0.80-2.65)	2.21(0.80-2.78)	2.21(0.80-2.78)	
Current input	Cooling	A	7.0(2.3-7.5)	7.0(2.3-7.5)	7.0(2.3-7.5)	9.6(3.7-11.1)	9.6(3.7-11.1)	9.6(3.7-11.1)	
	Heating	A	7.3(2.1-8.2)	7.3(2.1-8.2)	7.3(2.1-8.2)	9.1(3.5-11.8)	9.8(3.5-12.3)	9.8(3.5-12.3)	
Refrigerant charge volume		kg	1.40	1.40	1.40	2.40	2.40	2.40	
Indoor unit	Air flow volume		CFM	586/470/353	695/636/589	530/470/412	942/824/706	824/747/689	706/618/530
			m³/h	1000/800/600	1180/1080/1000	900/800/700	1600/1400/1200	1400/1270/1170	1200/1050/900
	ESP	Rated	Pa	25	—	—	25	—	—
		Range	Pa	0-25	—	—	0-100	—	—
	Sound pressure level (H/M/L)		dB(A)	42/38/36	47/45/43	45/42/39	47/44/42	51/49/48	52/49/46
	Dimension (WxDxH)	Outline	mm	980x721x266	840x840x240	1220x700x225	1270x530x268	840x840x240	1220x700x225
		Package	mm	1123x798x323	963x963x325	1343x823x315	1348x597x283	963x963x325	1343x823x315
Net weight/Gross weight		kg	34/41	27/36	42/51	37/43	27/36	43/52	
Panel	Dimension (WxDxH)	Outline	mm	—	950x950x60	—	—	950x950x60	
		Package	mm	—	1028x1043x130	—	—	1028x1043x130	
	Net weight/Gross weight		kg	—	6.5/10	—	—	6.5/10	
Outdoor unit	Sound pressure level		dB(A)	57			59		
	Dimension (WxDxH)	Outline	mm	955x396x700			980x427x790		
		Package	mm	1029x458x750			1083x488x855		
	Net weight/Gross weight		kg	46/51			65/70		
Connection pipe	Outer diameter	Liquid	inch	φ1/4			φ3/8		
		Gas	inch	φ1/2			φ5/8		
	Max. distance	Height/Length	m	15/20			15/30		
Loading quantity									

Model	Outdoor unit		GUHD30NK3C10			GUHD36NK3C10				
	Indoor unit		Duct	Cassette	Floor Ceiling	Duct	Cassette	Floor Ceiling		
			GFH30K3CI	GKH30K3CI	GTH30K3CI	GFH36K3CI	GKH36K3CI	GTH36K3CI		
Capacity	Cooling	W	8200(2700-8300)	8800(3000-9100)	8800(3100-9000)	10000(3500-11500)	10000(3000-11500)	10500(3500-13000)		
		Btu/h	28000(9200-28300)	30000(10200-31000)	30000(10500-30700)	34100(11940-39238)	34100(10236-39238)	35800(11940-44356)		
Capacity	Heating	W	8800(2000-9300)	9500(2500-9900)	9500(2700-9900)	11000(3800-12800)	11000(3500-12800)	11200(3500-12500)		
		Btu/h	30000(6800-31700)	32400(8500-33700)	32400(9200-33700)	37500(12965-43670)	37500(11940-43670)	38200(11940-42650)		
EER/COP		W/W	3.22/3.62	3.21/3.61	3.21/3.61	3.21/3.61	3.21/3.61	3.21/3.61		
Power supply		Ph/V/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50		
Power input	Cooling	kW	2.55(0.84-3.20)	2.74(0.85-2.98)	2.74(0.85-2.98)	3.115(1.38-4.18)	3.115(1.04-4.20)	3.27(1.08-4.04)		
	Heating	kW	2.43(0.80-2.75)	2.63(0.70-2.72)	2.63(0.70-2.72)	3.047(1.24-3.68)	3.047(0.90-3.52)	3.10(0.95-3.84)		
Current input	Cooling	A	11.2(3.7-14.2)	12.1(3.7-13.2)	12.1(3.7-13.2)	14.6(6.1-18.4)	14.6(4.6-18.5)	14.9(4.7-17.7)		
	Heating	A	10.7(3.5-12.2)	11.6(3.1-12.1)	11.6(3.1-12.1)	14.6(5.5-16.2)	13.7(3.9-15.5)	14.5(4.2-16.9)		
Refrigerant charge volume		kg	2.60	2.60	2.60	3.80	3.80	3.80		
Indoor unit	Air flow volume	CFM	942/824/706	977/924/883	942/853/765	1353/1241/1088	977/924/883	1176/959/895		
		m³/h	1500/1300/1100	1660/1570/1500	1600/1450/1300	2300/2110/1850	1660/1570/1500	2000/1630/1520		
	ESP	Rated	Pa	37	—	—	37	—		
		Range	Pa	0-100	—	—	0-150	—		
	Sound pressure level (H/M/L)		dB(A)	47/44/42	53/51/48	50/48/46	53/50/46	53/51/48	54/51/48	
	Dimension (WxDxH)	Outline	mm	1270x530x268	840x840x320	1420x700x245	1226x775x290	840x840x320	1420x700x245	
		Package	mm	1348x597x283	963x963x409	1548x828x345	1338x877x305	963x963x409	1548x828x345	
Net weight/Gross weight		kg	36/41	32/43	51/58	57/67	32/43	53/61		
Panel	Dimension (WxDxH)	Outline	mm	—	950x950x60	—	—	950x950x60	—	
		Package	mm	—	1028x1043x130	—	—	1028x1043x130	—	
	Net weight/Gross weight		kg	—	6.5/10	—	—	6.5/10	—	
Outdoor unit	Sound pressure level	dB(A)	59			61				
		mm	980x427x790			1107x440x1100				
	Dimension (WxDxH)	Package	mm	1083x488x855			1158x493x1235			
Net weight/Gross weight		kg	68/74			89/100				
Connection pipe	Outer diameter	Liquid	inch	Φ3/8			Φ3/8			
		Gas	inch	Φ5/8			Φ5/8			
	Max distance	Height/Length	m	15/30			15/30			
Loading quantity			40'GP/40'HQ	—	76/89	49/69	57/67	45/49	46/46	46/46

Model	Outdoor unit		GUHD36NM3C10			GUHD42NK3C10				
	Indoor unit		Duct	Cassette	Floor Ceiling	Duct	Cassette	Floor Ceiling		
			GFH36K3CI	GKH36K3CI	GTH36K3CI	GFH42K3CI	GKH42K3CI	GTH42K3CI		
Capacity	Cooling	W	10000(3500-11500)	10000(3000-11500)	10500(3500-13000)	11000(3500-13000)	11000(3500-13000)	11500(3500-13000)		
		Btu/h	34100(11940-39238)	34100(10236-39238)	35800(11940-44356)	37530(11940-44350)	37530(11940-44350)	39238(11940-44350)		
Capacity	Heating	W	11000(3800-12800)	11000(3500-12800)	11200(3500-12500)	12000(3800-14500)	12000(3800-14500)	12500(3500-14200)		
		Btu/h	37500(12965-43670)	37500(11940-43670)	38200(11940-42650)	40944(12965-49470)	40944(12965-49470)	42650(11940-48450)		
EER/COP		W/W	3.21/3.61	3.21/3.61	3.21/3.61	3.21/3.61	3.21/3.61	3.21/3.61		
Power supply		Ph/V/Hz	3/380-415/50	3/380-415/50	3/380-415/50	1/220-240/50	1/220-240/50	1/220-240/50		
Power input	Cooling	kW	3.115(1.35-4.10)	3.115(1.02-4.10)	3.27(1.08-4.00)	3.426(0.86-4.15)	3.426(0.90-4.26)	3.58(0.85-4.06)		
	Heating	kW	3.047(1.22-3.68)	3.047(0.90-3.84)	3.10(0.96-3.75)	3.30(0.76-3.70)	3.30(0.79-4.08)	3.46(0.72-3.82)		
Current input	Cooling	A	4.8(2.1-6.1)	4.8(1.6-6.1)	4.9(1.7-6.0)	15.2(3.8-18.2)	15.2(4.0-18.7)	15.88(3.7-17.8)		
	Heating	A	4.7(1.9-5.5)	4.7(1.4-5.7)	4.6(1.5-5.6)	14.64(3.3-16.3)	14.64(3.5-17.9)	15.35(3.2-16.8)		
Refrigerant charge volume		kg	3.80	3.80	3.80	3.80	3.80	3.80		
Indoor unit	Air flow volume	CFM	1353/1241/1088	977/924/883	1176/959/895	1353/1241/1088	977/924/883	1176/959/895		
		m³/h	2300/2110/1850	1660/1570/1500	2000/1630/1520	2300/2110/1850	1660/1570/1500	2000/1630/1520		
	ESP	Rated	Pa	37	—	—	37	—		
		Range	Pa	0-150	—	—	0-150	—		
	Sound pressure level (H/M/L)		dB(A)	53/50/46	53/51/48	54/51/48	53/50/46	53/51/48	54/51/48	
	Dimension (WxDxH)	Outline	mm	1226x775x290	840x840x320	1420x700x245	1226x775x290	840x840x320	1420x700x245	
		Package	mm	1338x877x305	963x963x409	1548x828x345	1338x877x305	963x963x409	1548x828x345	
Net weight/Gross weight		kg	57/67	32/43	53/61	57/67	32/43	55/63		
Panel	Dimension (WxDxH)	Outline	mm	—	950x950x60	—	—	950x950x60	—	
		Package	mm	—	1028x1043x130	—	—	1028x1043x130	—	
	Net weight/Gross weight		kg	—	6.5/10	—	—	6.5/10	—	
Outdoor unit	Sound pressure level	dB(A)	61			61				
		mm	1107x440x1100			1107x440x1100				
	Dimension (WxDxH)	Package	mm	1158x493x1235			1158x493x1235			
Net weight/Gross weight		kg	88/99			89/100				
Connection pipe	Outer diameter	Liquid	inch	Φ3/8			Φ3/8			
		Gas	inch	Φ5/8			Φ5/8			
	Max distance	Height/Length	m	15/30			30/50			
Loading quantity			40'GP/40'HQ	—	45/49	46/46	46/46	45/49	46/46	46/46

Model	Outdoor unit		GUHD42NM3C10			GUHD48NK3C10			
	Indoor unit		Duct	Cassette	Floor Ceiling	Duct	Floor Ceiling		
			GFH42K3CI	GKH42K3CI	GTH42K3CI	GFH48K3CI	GTH48K3CI		
Capacity	Cooling	W	11000(3500-13000)	11000(3500-13000)	11300(3500-13000)	14000(5000-14300)	14000(5000-14300)		
		Btu/h	37530(11940-44350)	37530(11940-44350)	38555(11940-44350)	48000(17000-48800)	48000(17000-48800)		
Capacity	Heating	W	12000(3800-14500)	12000(3800-14500)	12500(3500-14200)	16000(5200-18000)	16000(5200-18000)		
		Btu/h	40944(12965-49470)	40944(12965-49470)	42650(11940-48450)	54600(17700-61400)	54600(17700-61400)		
EER/COP		W/W	3.21/3.61	3.21/3.61	3.21/3.61	3.21/3.61	3.21/3.61		
Power supply		Ph/V/Hz	3/380-415/50	3/380-415/50	3/380-415/50	1/220-240/50	1/220-240/50		
Power input	Cooling	kW	3.425(1.34-4.52)	3.425(1.04-4.32)	3.520(1.08-4.26)	4.36(1.62-5.34)	4.36(1.15-4.98)		
	Heating	kW	3.32(1.23-4.10)	3.30(0.92-4.02)	3.460(0.96-3.88)	4.43(1.46-5.34)	4.43(0.98-5.08)		
Current input	Cooling	A	5.5(2.1-6.8)	5.4(1.6-6.5)	5.2(1.7-6.4)	20.0(7.1-23.5)	20.0(5.1-21.8)		
	Heating	A	4.88(1.9-6.1)	4.88(1.4-6.0)	5.12(1.5-5.8)	21.0(6.4-23.5)	21.0(4.3-22.3)		
Refrigerant charge volume		kg	3.80	3.80	3.80	4.30	4.30		
Indoor unit	Air flow volume	CFM	1353/1241/1088	977/924/883	1176/959/895	1470/1353/1236	1353/1236/1118		
		m³/h	2300/2110/1850	1660/1570/1500	2000/1630/1520	2500/2300/2100	2300/2100/1900		
	ESP	Rated	Pa	37	—	—	50	—	
		Range	Pa	0-150	—	—	0-150	—	
	Sound pressure level (H/M/L)		dB(A)	53/50/46	53/51/48	54/51/48	53/50/46	58/55/52	
	Dimension (WxDxH)	Outline	mm	1226x775x290	840x840x320	1420x700x245	1226x815x330	1700x700x245	
		Package	mm	1338x877x305	963x963x409	1548x828x345	1338x925x345	1828x828x345	
Net weight/Gross weight		kg	57/67	32/43	55/63	64/73	64/72		
Panel	Dimension (WxDxH)	Outline	mm	—	950x950x60	—	—		
		Package	mm	—	1028x1043x130	—	—		
	Net weight/Gross weight		kg	—	6.5/10	—	—		
Outdoor unit	Sound pressure level	dB(A)	61			61			
		mm	1107x440x1100			1085x427x1365			
	Dimension (WxDxH)	Package	mm	1158x493x1235			1143x478x1505		
Net weight/Gross weight		kg	88/99			116/128			
Connection pipe	Outer diameter	Liquid	inch	Φ3/8			Φ3/8		
		Gas	inch	Φ5/8			Φ5/8		
	Max distance	Height/Length	m	30/50			30/50		
Loading quantity			40'GP/40'HQ	—	45/49	46/46	46/46	40/48	41/46

Model	Outdoor unit		GUHD48NM3C10		GUHD60NM3C10		
	Indoor unit		Duct	Floor Ceiling	Duct	Floor Ceiling	
			GFH48K3CI	GTH48K3CI	GFH60K3CI	GTH60K3CI	
Capacity	Cooling	W	14000(5000-14300)	14000(5000-14300)	17000(4000-17500)	16000(4000-16500)	
		Btu/h	48000(17000-48620)	48000(17000-48620)	58000(13600-59700)	54500(13600-56300)	
Capacity	Heating	W	16000(5200-18000)	16000(5200-18000)	18000(5000-18800)	17500(4500-18300)	
		Btu/h	54600(17700-61400)	54600(17700-61400)	61400(17000-64100)	59700(15300-62400)	
EER/COP		W/W	3.21/3.61	3.21/3.61	3.21/3.61	3.21/3.61	
Power supply		Ph/V/Hz	3/380-415/50	3/380-415/50	3/380-415/50	3/380-415/50	
Power input	Cooling	kW	4.36(1.60-5.36)	4.36(1.42-5.14)	5.29(1.68-6.38)	4.98(1.52-6.04)	
	Heating	kW	4.43(1.44-5.32)	4.43(1.28-5.25)	4.98(1.40-5.46)	4.84(1.29-6.33)	
Current input	Cooling	A	6.4(2.5-8.0)	6.21(2.2-7.7)	7.8(2.6-9.5)	7.4(2.3-9.0)	
	Heating	A	6.7(2.2-8.0)	6.5(2.0-7.8)	7.4(2.2-8.2)	7.2(2.0-9.5)	
Refrigerant charge volume		kg	4.30	4.30	5.50	5.50	
Indoor unit	Air flow volume	CFM	1470/1353/1236	1353/1236/1118	1854/1709/1530	1353/1236/1118	
		m³/h	2500/2300/2100	2300/2100/1900	3150/2900/2600	2300/2100/1900	
	ESP	Rated	Pa	50	—	50	—
		Range	Pa	0-150	—	0-150	—
	Sound pressure level (H/M/L)		dB(A)	53/50/46	58/55/52	54/51/48	58/55/52
	Dimension (WxDxH)	Outline	mm	1226x815x330	1700x700x245	1463x799x389	1700x700x245
		Package	mm	1338x925x345	1828x828x345	1543x883x470	1828x828x345
Net weight/Gross weight		kg	64/73	64/72	87/115	65/73	
Panel	Dimension (WxDxH)	Outline	mm</				

U-Match



Fixed Frequency Series

It is a kind of split system that the outdoor unit can be freely connected to different types of indoor units according to various indoor decoration requirements.



- Intelligent defrosting
- Compact design
- Anti-cold function
- Comprehensive protection
- Easier maintainability

- Double ambient temperature sensor design makes a precision temperature monitoring.
- Low start-up current thanks to power delay control design.



Indoor Unit

- | Duct type | Cassette type | Floor ceiling type |
|---|--|--|
| <ul style="list-style-type: none"> • Fresh air inlet and air valve control function improve the indoor air quality. • Flexible air in/outlet and condensing water outlet direction according to different installation requirements. • Optimized air duct design improves the performance and lower the noise. | <ul style="list-style-type: none"> • Drain pump fitted as standard with increased lift of 1100mm. • Special low noise fan design. • Different swing angle design for cooling and heating mode for better comfort. | <ul style="list-style-type: none"> • 3-D air flue design. • Easy replacement of motor and fan blade thanks to clamp block propeller design. • Different swing angle design for cooling and heating mode for better comfort. |

Item	Nominal operating condition (temperature)				Operation range (temperature) Outdoor condition DB (°C)
	Outdoor condition		Indoor condition		
	DB (°C)	WB (°C)	DB (°C)	WB (°C)	
Cooling	35	24	27	19	-7~43(with low ambient cooling) 18~43(without low ambient cooling)
Heating	7	6	20	15	-15~24

Units Lineup

Capacity Index (Btu/h)		9K	12K	18K	24K
Indoor Unit	Outdoor Unit	 GUHN09NK3AO	 GUHN12NK3AO	 GUHN18NK3AO	 GUHN24NK3AO
	Duct	 GFH09K3BI	 GFH12K3BI	 GFH18K3BI	 GFH24K3BI
	Cassette	—	 GKH12K3BI	 GKH18K3BI	 GKH24K3BI
	Floor Ceiling	 GTH09K3BI	 GTH12K3BI	 GTH18K3BI	 GTH24K3BI

Capacity Index (Btu/h)		30K	36K	42K	48K	60K
Indoor Unit	Outdoor Unit	 GUHN30NK3AO	 GUHN36NK3AO GUHN36NM3AO	 GUHN42NM3AO	 GUHN48NM3AO	 GUHN60NM3AO
	Duct	 GFH30K3BI	 GFH36K3BI	 GFH42K3BI	 GFH48K3BI	 GFH60K3BI
	Cassette	 GKH30K3BI	 GKH36K3BI	 GKH42K3BI	 GKH48K3BI	—
	Floor Ceiling	 GTH30K3BI1	 GTH36K3BI	 GTH42K3BI	 GTH48K3BI	—

Model	Outdoor unit		GUHN09NK3AO			GUHN12NK3AO		
	Indoor unit		Duct	Floor Ceiling	Duct	Casstee	Floor Ceiling	
			GFH09K3BI	GTH09K3BI	GFH12K3BI	GKH12K3BI	GTH12K3BI	
Capacity	Cooling	W	2600	2600	3500	3500	3500	
		Btu/h	8900	8900	11900	11900	11900	
	Heating	W	2850	2850	3600	3600	3600	
Btu/h		9700	9700	12300	12300	12300		
EER/COP	W/W		2.60/2.94	2.60/2.85	2.92/3.27	2.99/3.27	2.99/3.27	
Power supply	Ph/V/Hz		1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	
Power input	Cooling	kW	1.00	1.00	1.20	1.17	1.17	
	Heating	kW	0.97	1.00	1.10	1.10	1.10	
Current input	Cooling	A	4.4	4.3	5.4	5.4	5.4	
	Heating	A	4.3	4.5	5.1	5.1	5.1	
Refrigerant charge volume			kg	1.1	1.1	1	1	
Indoor unit	Air flow volume		m³/h	550/470/400	550/470/380	600/540/490	550/490/420	550/470/380
			CFM	324/276/235	324/277/224	353/318/288	324/288/247	324/277/224
	Sound pressure level(H/M/L)		dB(A)	37/36/34	47/44/41	40/38/36	47/45/43	47/44/41
	Dimension (WxDxH)	Outline	mm	913x680x220	836x695x238	913x680x220	600x600x230	836x695x238
		Package	mm	998x753x273	938x808x310	998x753x273	851x681x325	838x808x310
Net weight /Gross weight		kg	24/29	25/32	25/30	20/27	26/33	
Panel	Dimension (WxDxH)	Outline	mm	—	—	—	650x650x50	—
		Package	mm	—	—	—	670x730x102	—
	Net weight /Gross weight		kg	—	—	—	2.5/3.5	—
Outdoor unit	Sound pressure level		dB(A)	55			56	
	Dimension (WxDxH)	Outline	mm	820x320x540			820x320x540	
		Package	mm	873x363x605			873x363x605	
Net weight /Gross weight		kg	32/37			32/37		
Connection pipe	Outer diameter	Liquid	inch	φ1/4			φ1/4	
		Gas	inch	φ3/8			φ1/2	
	Max.distance	Height/Length	m	15/20			15/20	
Loading quantity	40'GP/40'HQ		—	123/160	116/143	123/160	113/144	116/143

Model	Outdoor unit		GUHN18NK3AO			GUHN24NK3AO			
	Indoor unit		Duct	Casstee	Floor Ceiling	Duct	Casstee	Floor Ceiling	
			GFH18K3BI	GKH18K3BI	GTH18K3BI	GFH24K3BI	GKH24K3BI	GTH24K3BI	
Capacity	Cooling	W	5000	5000	5000	7000	6800	7000	
		Btu/h	17000	17000	17000	24000	23200	24000	
	Heating	W	5700	5400	5700	8000	7500	8000	
Btu/h		19400	18400	19400	27300	25600	27300		
EER/COP	W/W		2.38/3.17	2.50/2.84	2.46/2.75	2.63/3.19	2.60/3.00	2.68/3.09	
Power supply	Ph/V/Hz		1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	
Power input	Cooling	kW	2.10	2.00	2.03	2.66	2.62	2.61	
	Heating	kW	1.80	1.90	2.07	2.51	2.50	2.59	
Current input	Cooling	A	9.4	9.0	9.3	12.1	11.9	11.8	
	Heating	A	8.0	8.7	9.5	11.4	11.4	11.7	
Refrigerant charge volume			kg	1.5	1.5	1.5	2.2	2.2	
Indoor unit	Air flow volume		m³/h	840/750/680	550/490/420	700/640/570	1600/1400/1200	1180/1080/1000	1170/1080/1000
			CFM	494/441/400	324/288/247	412/377/335	941/824/706	694/635/588	688/635/588
	Sound pressure level(H/M/L)		dB(A)	42/40/38	47/45/43	54/50/46	47/44/42	47/45/43	50/48/46
	Dimension (WxDxH)	Outline	mm	1012x736x266	600x600x230	836x695x238	1270x530x268	840x840x240	1300x600x188
		Package	mm	1123x798x323	851x681x325	938x808x310	1348x597x283	963x363x325	1417x727x263
Net weight /Gross weight		kg	34/41	20/27	26/33	37/43	27/36	33/40	
Panel	Dimension (WxDxH)	Outline	mm	650x650x50			950x950x60		
		Package	mm	670x730x102			1025x1040x115		
	Net weight /Gross weight		kg	2.5/3.5			6.5/10		
Outdoor unit	Sound pressure level		dB(A)	56			59		
	Dimension (WxDxH)	Outline	mm	820x320x540			1018x412x695		
		Package	mm	873x363x605			1103x453x770		
Net weight /Gross weight		kg	40/45			59/64			
Connection pipe	Outer diameter	Liquid	inch	φ1/4			φ3/8		
		Gas	inch	φ1/2			φ5/8		
	Max.distance	Height/Length	m	15/20			15/30		
Loading quantity	40'GP/40'HQ		—	116/132	113/114	116/143	92/94	52/60	88/98

Model	Outdoor unit		GUHN30NK3AO			GUHN36NK3AO			
	Indoor unit		Duct	Casstee	Floor Ceiling	Duct	Casstee	Floor Ceiling	
			GFH30K3BI	GKH30K3BI	GTH30K3BI	GFH36K3BI	GKH36K3BI	GTH36K3BI	
Capacity	Cooling	W	8300	8300	8800	9800	10000	10000	
		Btu/h	28300	28300	30000	33400	34100	34100	
	Heating	W	9100	8800	9800	11000	11000	11000	
Btu/h		31000	30000	33400	37500	37500	37500		
EER/COP	W/W		2.77/3.03	2.86/2.79	2.93/3.44	2.45/3.14	2.78/3.33	2.78/3.33	
Power supply	Ph/V/Hz		1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	
Power input	Cooling	kW	3.00	2.90	3.00	4.00	3.60	3.60	
	Heating	kW	3.00	3.15	2.85	3.50	3.30	3.30	
Current input	Cooling	A	13.5	13.1	13.6	22.0	20.0	20.0	
	Heating	A	13.9	13.1	13.6	19.0	18.0	18.0	
Refrigerant charge volume			kg	3.6	3.6	3.2	3.2	3.2	
Indoor unit	Air flow volume		m³/h	1500/1300/1100	1400/1270/1170	1600/1450/1300	2000/1900/1800	1660/1570/1500	1800/1630/1520
			CFM	882/765/647	824/747/688	942/853/765	1176/1118/1059	976/924/882	1059/959/894
	Sound pressure level(H/M/L)		dB(A)	47/44/42	51/49/48	52/51/49	50/48/46	53/51/48	54/51/48
	Dimension (WxDxH)	Outline	mm	1270x530x268	840x840x240	1420x700x245	1226x775x290	840x840x320	1590x695x238
		Package	mm	1348x597x283	963x963x325	1545x828x345	1338x837x305	963x963x409	1717x833x345
Net weight /Gross weight		kg	37/43	27/36	48/58	54/61	32/43	48/58	
Panel	Dimension (WxDxH)	Outline	mm	950x950x60			—		
		Package	mm	1025x1040x115			—		
	Net weight /Gross weight		kg	6.5/10			—		
Outdoor unit	Sound pressure level		dB(A)	59			60		
	Dimension (WxDxH)	Outline	mm	980x427x790			1018x412x840		
		Package	mm	1083x488x858			1103x453x1000		
Net weight /Gross weight		kg	70/75			90/100			
Connection pipe	Outer diameter	Liquid	inch	φ3/8			φ1/2		
		Gas	inch	φ5/8			φ3/4		
	Max.distance	Height/Length	m	15/30			30/50		
Loading quantity	40'GP/40'HQ		—	74/85	56/64	72/84	64/70	44/53	55/58

Model	Outdoor unit		GUHN36NM3AO			GUHN42NM3AO			
	Indoor unit		Duct	Casstee	Floor Ceiling	Duct	Casstee	Floor Ceiling	
			GFH36K3BI	GKH36K3BI	GTH36K3BI	GFH42K3BI	GKH42K3BI	GTH42K3BI	
Capacity	Cooling	W	9800	10000	9800	12000	12000	12000	
		Btu/h	33400	34100	33400	41000	41000	41000	
	Heating	W	11000	11000	10780	14000	14000	14000	
Btu/h		37500	37500	36800	48000	48000	48000		
EER/COP	W/W		2.45/3.14	2.78/3.55	2.72/3.27	2.26/2.86	2.50/2.80	2.50/2.98	
Power supply	Ph/V/Hz		3/380-415/50	3/380-415/50	3/380-415/50	3/380-415/50	3/380-415/50	3/380-415/50	
Power input	Cooling	kW	4.00	3.60	3.60	5.30	4.80	4.80	
	Heating	kW	3.50	3.30	3.30	4.90	5.00	4.70	
Current input	Cooling	A	7.0	6.7	6.7	9.6	8.7	8.7	
	Heating	A	6.3	5.7	6.0	8.9	8.5	8.5	
Refrigerant charge volume			kg	3.2	3.2	3.2	3.55	3.55	
Indoor unit	Air flow volume		m³/h	2000/1900/1800	1660/1570/1500	1800/1630/1520	2000/1900/1800	1660/1570/1500	1800/1630/1520
			CFM	1176/1118/1059	976/924/882	1059/959/894	1176/1118/1059	976/924/882	1059/959/894
	Sound pressure level(H/M/L)		dB(A)	50/48/46	53/51/48	54/51/48	50/48/46	53/51/48	54/51/48
	Dimension (WxDxH)	Outline	mm	1226x775x290	840x840x320	1590x695x238	1226x775x290	840x840x320	1590x695x238
		Package	mm	1338x837x305	963x963x409	1717x833x345	1338x837x305	963x963x409	1717x833x345
Net weight /Gross weight		kg	54/61	32/43	48/58	54/61	32/43	48/58	
Panel	Dimension (WxDxH)	Outline	mm	950x950x60			—		
		Package	mm	1025x1040x115			—		
	Net weight /Gross weight		kg	6.5/10			—		
Outdoor unit	Sound pressure level		dB(A)	60			60		
	Dimension (WxDxH)	Outline	mm	1018x412x840			1032x412x1250		
		Package	mm	1103x453x1000			1113x453x1400		
Net weight /Gross weight		kg	90/100			112/123			
Connection pipe	Outer diameter	Liquid	inch	φ1/2			φ1/2		
		Gas	inch	φ3/4			φ3/4		
	Max.distance	Height/Length	m	30/50			30/50		
Loading quantity	40'GP/40'HQ		—	64/70	44/53	55/58	45/49	42/48	44/49

U-Match (Fixed Frequency Series) <<<

Model	Outdoor unit		GUHN48NM3AO			GUHN60NM3AO
	Indoor unit		Duct GFH48K3BI	Cassee GKH48K3BI	Floor Ceiling GTH48K3BI	Duct GFH60K3BI
Capacity	Cooling	W	14000	14000	14000	16000
		Btu/h	48000	48000	48000	54600
	Heating	W	15500	15500	15500	18500
		Btu/h	52900	52900	52900	63100
EER/COP	W/W	2.41/2.87	2.41/2.50	2.30/2.67	2.46/3.36	
Power supply	Ph/V/Hz	3/380-415/50		3/380-415/50	3/380-415/50	
Power input	Cooling	kW	5.80	5.80	6.10	6.50
	Heating	kW	5.40	6.20	5.80	5.50
Current input	Cooling	A	10.5	10.5	11.0	11.8
	Heating	A	9.8	11.3	10.5	10.0
Refrigerant charge volume		kg	3.8	3.8	3.8	5
Indoor unit	Air flow volume	m ³ /h	2300/2110/1850	1660/1570/1500	2100/1900/1800	2500/2070/1730
		CFM	1354/1242/1089	977/924/883	1236/1118/1059	1471/1218/1018
	Sound pressure level(H/M/L)	dB(A)	53/50/46	53/51/48	58/55/52	53/50/48
		Outline	mm	1226×775×290	840×840×320	1590×695×238
	Package	mm	1338×837×305	963×963×409	1117×833×345	1338×855×345
Net weight /Gross weight	kg	57/67	32/43	48/58	66/76	
Panel	Dimension (WxDxH)	Outline	mm	950×950×60	—	—
		Package	mm	1020×1040×115	—	—
	Net weight /Gross weight	kg	—	6.5/10	—	—
Outdoor unit	Sound pressure level	dB(A)	63			64
		Outline	mm	1032×412×1250		1032×412×1250
	Dimension (WxDxH)	Package	mm	1113×453×1400		1113×453×1400
		Net weight /Gross weight	kg	112/123		123/134
Connection pipe	Outer diameter	Liquid	inch	φ1/2		φ1/2
	Gas	inch	φ3/4		φ3/4	
Max. distance	Height/Length	m	30/50		30/50	
	—	—	45/49	42/48	44/49	45/49

Floor Ceiling Split Unit (High Efficiency Series) >>>

Model	Outdoor unit		GUHN24NK3EO	GUHN28NK3EO	GUHN30NK3EO	GUHN30NM3EO	GUHN36NK3EO	GUHN36NM3EO
	Indoor unit		GTH24K3EI	GTH28K3EI	GTH30K3EI	GTH30K3EI	GTH36K3EI	GTH36K3EI
Capacity	Cooling	W	6700	7100	7700	7700	10500	10500
		Btu/h	22860	24200	26300	26300	35800	35800
	Heating	W	6900	7600	8000	8000	11500	11500
		Btu/h	23500	26000	27300	27300	39200	39200
EER/COP	W/W	3.33/3.72	3.30/3.78	3.28/3.64	3.35/3.81	3.40/3.75	3.40/3.75	
Power supply	Ph/V/Hz	1/220-240/50		1/220-240/50	1/220-240/50	3/380-415/50	1/220-240/50	3/380-415/50
Power input	Cooling	kW	2.02	2.15	2.35	2.30	3.09	3.09
	Heating	kW	1.86	2.01	2.20	2.10	3.07	3.07
Current input	Cooling	A	10.31	11.00	11.00	4.30	13.00	4.50
	Heating	A	9.49	10.28	9.00	4.10	13.00	4.00
Refrigerant charge volume		kg	2.40	2.70	2.70	2.75	3.80	3.80
Indoor unit	Air flow volume (rated EXP)	CFM	765	765	942	942	1177	1177
		m ³ /h	1300	1300	1600	1600	2000	2000
	ESP	Rated	Pa	0	0	0	0	0
		Range	Pa	0	0	0	0	0
	Sound pressure level	dB(A)	53/51/48/46	53/51/48/46	50/48/46/43	50/48/46/43	55/52/49/47	55/52/49/47
Dimension (WxDxH)	Outline	mm	1220×700×225	1220×700×225	1420×700×245	1420×700×245	1420×700×245	1420×700×245
	Package	mm	1345×825×310	1345×825×310	1548×828×345	1548×828×345	1548×828×345	1548×828×345
Net weight /Gross weight	kg	44/53	44/53	51/59	51/59	54/62	54/62	
Outdoor unit	Sound pressure level	dB(A)	60	60	60	60	61	61
		Outline	mm	1000×427×790	1000×427×790	1000×427×790	1000×427×790	1000×440×1100
	Package	mm	1143×483×880	1143×483×880	1143×483×880	1143×483×880	1143×483×1255	1143×483×1255
Net weight /Gross weight	kg	69/73	74/79	75/80	75/80	110/119	110/119	
Connection pipe	Outer diameter	Liquid	inch	φ1/4		φ1/4	φ3/8	φ3/8
		Gas	inch	φ5/8		φ5/8	φ5/8	φ5/8
Max. distance	Height	m	15	15	15	15	30	30
		Length	m	30	30	30	50	50
Loading quantity	40'GP/40'HQ	—	140/162	66/78	57/67	57/67	46/57	46/57

Floor Ceiling Split Unit



It is a kind of split air conditioner that the indoor unit can be installed either on the floor or suspended under the ceiling according to different installation requirements.



Washable filter



High efficiency



Quiet function



Compact design



Easier maintainability



Child lock

- Optimized air flue design greatly improves the fan efficiency and largely lowers the operation noise.
- Optimized swing operation for better comfort: cooling mode 80~105°; heating mode 75~105°.
- Thanks to the pressure release design, whenever power on the unit, it will rapidly enter into cooling condition without 3mins compressor stop time limit.
- Body motion sensor: The ON/OFF of the unit could be intelligently controlled by body motion sensor.
- Main wired controller and auxiliary wired controller can be connected to the unit together so that the unit could be controlled by two wired controller without PRI.
- Three directions pipe connection connector to meet various installation environments.



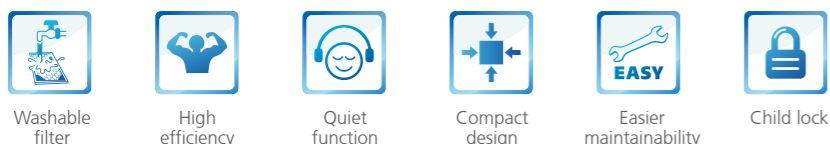
Item	Nominal operating condition (temperature)				Operating range (temperature)
	Outdoor condition		Indoor condition		Outdoor condition
	DB (°C)	WB (°C)	DB (°C)	WB (°C)	DB (°C)
Cooling	35	24	27	19	21~43
Heating	7	6	20	15	-7~24

Duct Split Unit



High Efficiency Series

It is a kind of split system that can be connected with air duct to realize cooling/heating in subdivided area.



- Optimized air flue design greatly improves the fan efficiency and largely lowers the operation noise.
- Fresh air inlet design greatly improve indoor air quality.
- Thanks to the pressure release design, whenever power on the unit, it will rapidly enter into cooling condition without 3mins compressor stop time limit.
- Body motion sensor: The ON/CFF of the unit could be intelligently controlled by body motion sensor.
- Main wired controller and auxiliary wired controller can be connected to the unit together so that the unit could be controlled by two wired controller without PRI.
- Thanks to two-side drainage pan design, the indoor unit could be installed upside down.



Item	Nominal operating condition (temperature)				Operating range (temperature)
	Outdoor condition		Indoor condition		
	DB (°C)	WB (°C)	DB (°C)	WB (°C)	
Cooling	35	24	27	19	21-43
Heating	7	6	20	15	-7-24

Model	Outdoor unit		GUHN18NK3DO		GUHN28NK3DO		GUHN30NK3DO		GUHN30NM3DO	
	Indoor unit		GFH18K3DBI	GFH28K3DAI	GFH30K3DAI	GFH30K3DBI	GFH30K3DAI	GFH30K3DBI		
Capacity	Cooling	W	5000	7765	8000	8000	8000	8000		
		Btu/h	17000	26500	27300	27300	27300	27300		
Heating	W	5500	7540	8200	8200	8200	8200			
	Btu/h	18800	25700	28000	28000	28000	28000			
EER/COP	W/W	3.16/3.46	3.11/3.28	3.20/3.73	3.20/3.73	3.08/3.57	3.08/3.57			
Power supply	Ph/V/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	3/380-415/50	3/380-415/50			
Power input	Cooling	kW	1.58	2.50	2.50	2.50	2.60			
	Heating	kW	1.59	2.30	2.20	2.20	2.30			
Current input	Cooling	A	7.00	11.00	11.00	11.00	4.50			
	Heating	A	7.00	10.50	9.00	9.00	4.40			
Refrigerant charge volume	kg	1.65	2.70	2.70	2.70	2.75	2.75			
Indoor unit	Air flow volume (rated EXP)	CFM	500	883	853	883	853			
		m³/h	850	1500	1450	1500	1450			
	ESP	Rated	Pa	25	25	37	37	37		
		Range	Pa	0-50	0-140	0-140	0-70	0-140		
Sound pressure level		dB(A)	52/50/49/48	51/49/48/46	51/49/48/46	58/55/51/49	51/49/48/46			
		dB(A)	58	60	60	60	60			
Dimension (WxDxH)	Outline	mm	888x758x290	650x670x385	650x670x385	1238x758x290	650x670x385			
	Package	mm	1023x868x345	858x858x415	858x858x415	1373x843x345	858x858x415			
Net weight/Gross weight	kg	43/48	38/43	38/43	47/55	38/43	47/55			
Outdoor unit	Sound pressure level	dB(A)	58	60	60	60	60			
	Dimension (WxDxH)	Outline	mm	1000x427x790	1000x427x790	1000x427x790	1000x427x790	1000x427x790		
Package		mm	1143x483x880	1143x483x880	1143x483x880	1143x483x880	1143x483x880			
Net weight/Gross weight	kg	65/72	73/80	75/80	75/80	76/81	76/81			
Connection pipe	Outer diameter	Liquid	inch	Φ1/4	Φ1/4	Φ1/4	Φ1/4			
	Gas	inch	Φ5/8	Φ5/8	Φ5/8	Φ5/8	Φ5/8			
Max. distance	Height	m	15	15	15	15	15			
	Length	m	30	30	30	30	30			
Loading quantity	40'GP/40'HQ	—	68/84	65/84	65/84	60/73	65/84			

Model	Outdoor unit		GUHN36NK3DO		GUHN36NM3DO		GUHN42NK3DO	
	Indoor unit		GFH36K3DAI	GFH36K3DBI	GFH36K3DAI	GFH36K3DBI	GFH42K3DAI	GFH42K3DBI
Capacity	Cooling	W	10000	10000	10000	10000	10800	11100
		Btu/h	34000	34000	34000	34000	37000	38000
Heating	W	11000	10500	11000	11000	12400	12400	
	Btu/h	37500	35800	37500	37500	42400	42400	
EER/COP	W/W	3.17/3.75	3.17/3.75	3.17/3.75	3.17/3.75	3.04/3.59	3.03/3.44	
Power supply	Ph/V/Hz	1/220-240/50	1/220-240/50	3/380-415/50	3/380-415/50	1/220-240/50	1/220-240/50	
Power input	Cooling	kW	3.16	3.16	3.16	3.16	3.55	
	Heating	kW	2.93	2.93	2.93	2.93	3.45	
Current input	Cooling	A	14.00	14.00	5.00	5.00	16.30	
	Heating	A	13.00	13.00	4.50	4.50	16.00	
Refrigerant charge volume	kg	3.20	3.20	3.35	3.35	4.40	4.40	
Indoor unit	Air flow volume (rated EXP)	CFM	1177	1030	1177	1030	1118	
		m³/h	2000	1750	2000	1750	1900	
	ESP	Rated	Pa	37	37	37	37	
		Range	Pa	0-140	0-70	0-140	0-70	
Sound pressure level		dB(A)	56/53/51/49	60/58/56/54	56/53/51/49	60/58/56/54	62	
		dB(A)	61	61	61	61	61	
Dimension (WxDxH)	Outline	mm	650x670x385	1238x758x290	650x670x385	1238x758x290	1238x758x290	
	Package	mm	858x858x415	1373x843x345	858x858x415	1373x843x345	1373x843x345	
Net weight/Gross weight	kg	38/43	50/55	38/43	50/55	53/62	44/50	
Outdoor unit	Sound pressure level	dB(A)	61	61	61	61	61	
	Dimension (WxDxH)	Outline	mm	1000x440x1100	1000x440x1100	1000x440x1100	1000x440x1100	1000x440x1100
Package		mm	1143x483x1255	1143x483x1255	1143x483x1255	1143x483x1255	1143x483x1255	
Net weight/Gross weight	kg	107/116	107/116	107/116	107/116	110/122	110/122	
Connection pipe	Outer diameter	Liquid	inch	Φ3/8	Φ3/8	Φ3/8	Φ3/8	
	Gas	inch	Φ5/8	Φ5/8	Φ5/8	Φ5/8	Φ5/8	
Max. distance	Height	m	30	30	30	30	30	
	Length	m	50	50	50	50	50	
Loading quantity	40'GP/40'HQ	—	48/64	48/60	48/64	48/60	48/60	

Duct Split Unit (High Efficiency Series) <<<

Model	Outdoor unit		GUHN42NM3DO		GUHN48NM3DO		GUHN60NM3DO
	Indoor unit		GFH42K3DBI	GFH42K3DAI	GFH48K3DBI	GFH48K3DAI	GFH60K3DAI
Capacity	Cooling	W	10800	11100	13000	14000	16100
		Btu/h	37000	38000	44300	48000	55000
	Heating	W	12400	12400	14000	14500	17000
		Btu/h	42400	42400	48000	49500	58000
EER/COP	W/W	3.04/3.59	3.02/3.44	3.09/3.21	3.10/3.11	3.03/3.03	
Power supply	Ph/V/Hz	3/380-415/50	3/380-415/50	3/380-415/50	3/380-415/50	3/380-415/50	
Power input	Cooling	kW	3.55	3.67	4.20	4.50	5.30
		kW	3.45	3.60	4.35	4.65	5.60
Current input	Cooling	A	6.80	7.60	8.40	9.50	11.40
		A	7.0	7.6	8.7	10.0	11.5
Refrigerant charge volume	kg	4.60	4.60	4.70	4.70	5.20	
Indoor unit	Air flow volume (rated EXP)	CFM	1118	1236	1001	1471	1707
		m ³ /h	1900	2100	1700	2500	2900
	ESP	Rated	Pa	37	50	50	50
		Range	Pa	0-70	0-140	0-70	0-140
	Sound pressure level	dB(A)	62	63	62	63	64
		Dimension (WxDxH)	Outline	mm	1238x758x290	860x670x385	1238x758x290
	Package	mm	1373x843x345	1068x858x415	1373x843x345	1068x858x415	1168x858x415
Net weight /Gross weight	kg	53/62	44/50	53/62	45/51	47/57	
Outdoor unit	Sound pressure level	dB(A)	61	61	62	62	64
		Dimension (WxDxH)	Outline	mm	1000x440x1100	1000x440x1100	1000x427x1365
	Package	mm	1143x483x1255	1143x483x1255	1143x478x1505	1143x478x1505	1143x478x1505
Net weight /Gross weight	kg	110/122	110/122	128/141	128/141	133/146	
Connection pipe	Outer diameter	Liquid	inch	Φ3/8	Φ3/8	Φ3/8	Φ3/8
		Gas	inch	Φ5/8	Φ5/8	Φ5/8	Φ3/4
Max. distance	Height	m	30	30	30	30	
		Length	m	50	50	50	50
Loading quantity	40'GP/40'HQ	—	48/60	48/60	48/60	48/48	44/44

Duct Split Unit (High Capacity Series) >>>

Model	Heat pump		FGR20/BNa-M	FGR25/CNa-M	FGR30/BNa-M	FGR40/BNa-M	
	Capacity	Cooling	kW	20	24.5	30	39.5
Btu/h			68000	83597	102000	134780	
	Heating	kW	22	27.5	33	42	
		Btu/h	75000	93834	112500	143310	
EER/COP	W/W	2.38/2.97	2.5/3.06	2.73/3.67	2.50/3.00		
Power supply	Ph/V/Hz	3/380-415/50	3/380-415/50	3/380-415/50	3/380-415/50		
Power input	Cooling	kW	8.4	9.8	12.5	15.8	
		kW	7.0	9.0	10.5	14.0	
Current input	Cooling	A	15.3	22.2	23.4	30	
		A	13.2	21.2	22.6	26.6	
Refrigerant charge volume	kg	5.3	6.7	9.5	12		
Indoor unit	Air flow volume	CFM	2380	2825	3230	4120	
		m ³ /h	4000	4800	5500	7000	
	ESP	Rated	Pa	200	110	120	150
		Range	Pa	100-300	50-250	50-250	50-250
	Sound pressure level	dB (A)	56	54	57	58	
		Dimension (WxDxH)	Outline	mm	1463x799x389	1500x1000x500	1500x1000x500
	Package	mm	1543x883x470	1840x1200x673	1840x1200x673	1890x1460x835	
Net weight /Gross weight	kg	86/109	150/200	156/206	215/265		
Outdoor unit	Sound pressure level	dB (A)	65	66	67	69	
		Dimension (WxDxH)	Outline	mm	1150x460x1350	1150x460x1600	990x880x1772
	Package	mm	1317x502x1475	1317x502x1730	1162x980x1950	1370x980x1950	
Net weight /Gross weight	kg	158/174	185/200	216/266	285/330		
Connection pipe	Outer diameter	Liquid	inch	Φ3/8	Φ3/8	Φ1/2	Φ5/8
		Gas	inch	Φ3/4	Φ1	Φ9/8	Φ9/8
Max. distance	Height	m	30	30	30	30	
		Length	m	50	50	50	50
Loading quantity	ODU	40'GP/40'HQ	—	41/41	24/24	16/16	
	IDU	40'GP/40'HQ	—	59/73	26/26	14/21	

Duct Split Unit



High Capacity Series

It is a kind of split system that the outdoor unit can be freely connected to different types of indoor units according to various indoor decoration requirements.



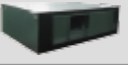

























- Quality motor
- Comprehensive protection
- High ESP
- Easier maintainability

- Dual temperature sensor.
- Anticorrosion heat exchanger, easy cleaning and less performance decline after years operation.
- Optimized air flue design greatly improves the fan efficiency and largely lowers the operation noise.
- Five directions pipe connection connector to meet various installation environments (top discharge ODU only).
- Flexible air inlet/outlet direction and condensing water outlet direction, meet various installation environments.

Item	Nominal operating condition (temperature)				Operating range (temperature)
	Outdoor condition		Indoor condition		Outdoor condition
	DB (°C)	WB (°C)	DB (°C)	WB (°C)	DB (°C)
Cooling	35	24	27	19	21~43
Heating	7	6	20	15	-5~24

Control System Lineup

Controlling system			U-Match						Floor ceiling split unit	Duct split unit		
			Super inverter series			Fixed frequency series					High efficiency series	High capacity series
			Duct type	Cassette type	Floor ceiling type		Duct type	4-Way Cassette type	Floor ceiling type			
												
Wireless remote controller	ZY512A		●					●				
	Y512 (Y502)			●	●				●	●		
	YB1F2										●	
	YT1F										●	●
Wired remote controller	Z4B351							●				
	Z4B351A							●				
	Z7A351								●	●		
	Z7A351A								●	●		
	Z4E351A		●	●	●			●	●	●	●	●
Long-distance monitoring software	Gree AC Eudemon 2009	FE30-00/A(M)		●	●	●		●	●	●	●	●
BMS accessories	Communication module (modbus)	ME30-00/E2		●	●	●		●	●	●	●	●
Centralized controller	Weekly centralized controller	ZJ4011A		●	●	●		●	●	●	●	●
	Smart zone controller	CE50-24/E		●	●	●				●	●	●
Other modules	Controller	Dq25		●				●				
	Optoelectronic isolated converter	RS232-RS422V485		●	●	●		●	●	●	●	●
	Optoelectronic isolated signal multiplier	RS-422V485		●	●	●		●	●	●	●	●
	single-phase low ambient speed control board	ZS401D						●	●	●	●	●

Note:
 ● means standard, ● means optional.
 * BMS interface is equipped.

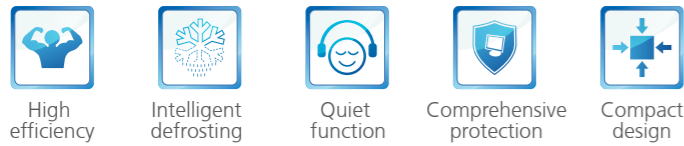
FREE MATCH





Free Match

It's a kind of DC inverter multi-split air conditioner that consisted with one outdoor unit and up to five indoor units.



- Various series of indoor units from wall-mounted type to duct type can satisfy different kinds of requirements.
- Powered by GREE G10 Inverter technology, the unit operates with lower power consumption, lower noise, more comfort.
- The unit is designed with low temperature cooling function, can operate cooling mode under outdoor ambient of -15°C.

Units Lineup

Capacity Index(Btu/h)		7000	9000	12000	18000	21000	24000
Wall mounted	U-Cool		●	●	●		
	Artful	●	●	●	●		
	Cozy	●	●	●	●		
	Change	●	●	●	●		
	Viola	●	●	●	●		
Floor ceiling		●	●	●		●	
Console		●	●	●			
Cassette			●	●	●		●
				●	●		●
Duct type		●	●	●	●	●	●

8 Combinations

GWHD(14)NK3BO (1 to 2)	One unit		Two units	
	7	7+7	7+9	
	9	7+12	9+9	
	12	9+12	-	

8 Combinations

GWHD(18)NK3DO (1 to 2)	One unit		Two units	
	7	7+7	7+9	
	9	7+12	9+9	
	12	9+12	-	

10 Combinations

GWHD(18)NK3DO (1 to 2)	One units		Two units	
	7+7		7+7	
	7+12		7+12	
	9+9		9+9	
	9+18		9+18	
	12+18		12+18	

23 Combinations

GWHD(24)NK3EO (2 to 3)	Two units		Three units	
	7+7	7+7	7+7+7	7+7+9
	7+12	7+12	7+7+18	7+9+12
	9+9	9+12	7+9+18	7+12+12
	9+18	12+12	9+9+12	9+9+18
	12+18	18+18	12+12+12	-

39 Combinations

GWHD(28)NK3BO (2 to 4)	Two units		Three units			Four units	
	7+7	7+9	7+7+7	7+7+9	7+7+12	7+7+9+9	7+7+7+12
	7+12	7+18	7+7+18	7+9+9	7+9+12	7+7+9+9	7+7+9+12
	9+9	9+12	7+9+18	7+12+12	7+12+18	7+7+12+12	7+9+9+9
	9+18	12+12	9+9+9	9+9+12	9+9+18	9+9+9+9	9+9+9+12
	12+18	18+18	9+12+12	9+12+18	12+12+12	12+12+12	-
	-	-	12+12+18	-	-	-	-

98 Combinations

GWHD(36)NK3AO (1 to 4)	Two units		Three units			Four units		
	7+7	12+21	7+7+7	7+12+21	9+12+21	7+7+7	7+7+12+21	9+9+9+9
	7+9	12+24	7+7+9	7+12+24	9+12+24	7+7+7+9	7+7+18+18	9+9+9+12
	7+12	18+18	7+7+12	7+18+18	9+18+18	7+7+7+12	7+9+9+9	9+9+9+18
	7+18	18+21	7+7+18	7+18+21	9+18+21	7+7+7+18	7+9+9+12	9+9+9+21
	7+21	18+24	7+7+21	7+18+24	9+18+24	7+7+7+21	7+9+9+18	9+9+9+24
	7+24	21+21	7+7+24	7+21+21	9+21+21	7+7+7+24	7+9+9+21	9+9+12+12
	9+9	21+24	7+9+9	9+9+9	12+12+12	7+7+9+9	7+9+9+24	9+9+12+18
	9+12	24+24	7+9+12	9+9+12	12+12+18	7+7+9+12	7+9+12+12	9+9+12+21
	9+18	-	7+9+18	9+9+18	12+12+21	7+7+9+18	7+9+12+18	9+9+18+18
	9+21	-	7+9+21	9+9+21	12+12+24	7+7+9+21	7+9+12+21	9+9+12+12
	9+24	-	7+9+24	9+9+24	12+18+18	7+7+9+24	7+9+18+18	9+12+12+18
	12+12	-	7+12+12	9+12+12	12+18+21	7+7+12+12	7+12+12+12	12+12+12+12
12+18	-	7+12+18	9+12+18	18+18+18	7+7+12+18	7+12+12+18	-	

203 Combinations

GWHD(42)NK3AO (1 to 5)	Two units		Three units		Four units			Five units			
	7+7	21+21	7+7+7	7+21+21	12+12+12	7+7+7+7	7+7+21+21	9+9+18+24	7+7+7+7+7	7+7+9+9+12	9+9+9+18+18
	7+9	21+24	7+7+9	7+21+24	12+12+18	7+7+7+9	7+7+21+24	7+12+12+24	9+9+21+21	7+7+7+7+9	7+7+9+9+18
	7+12	24+24	7+7+12	7+24+24	12+12+21	7+7+7+12	7+9+9+9	7+12+18+18	9+12+12+12	7+7+7+7+12	7+7+9+9+24
	7+18		7+7+18	9+9+9	12+12+24	7+7+7+18	7+9+9+12	7+12+18+21	9+12+12+18	7+7+7+7+18	7+7+9+9+24
	7+21		7+7+21	9+9+12	12+18+18	7+7+7+21	7+9+9+18	7+12+18+24	9+12+12+21	7+7+7+7+21	7+7+9+9+24
	7+24		7+7+24	9+9+18	12+18+21	7+7+7+24	7+9+9+21	7+12+21+21	9+12+12+24	7+7+7+7+24	7+7+9+9+24
	9+9		7+9+9	9+9+21	12+18+24	7+7+9+9	7+9+9+24	7+18+18+18	9+12+18+18	7+7+7+9+9	7+7+9+12+21
	9+12		7+9+12	9+9+24	12+21+21	7+7+9+12	7+9+12+12	7+9+9+9	9+12+18+21	7+7+7+9+12	7+7+9+12+24
	9+18		7+9+18	9+12+12	12+21+24	7+7+9+18	7+9+12+18	9+9+9+12	9+12+21+21	7+7+7+9+18	7+7+9+18+18
	9+21		7+9+21	9+12+18	12+24+24	7+7+9+21	7+9+12+21	9+9+9+18	9+18+18+18	7+7+7+9+21	7+7+12+12+12
	9+24		7+9+24	9+12+21	18+18+18	7+7+9+24	7+9+12+24	9+9+9+21	12+12+12+12	7+7+7+9+24	7+7+12+12+18
	12+12		7+12+12	9+12+24	18+18+21	7+7+12+12	7+9+18+18	9+9+9+24	12+12+12+18	7+7+7+12+12	7+7+12+12+21
	12+18		7+12+18	9+18+18	18+18+24	7+7+12+18	7+9+18+21	9+9+12+12	12+12+12+21	7+7+7+12+18	7+7+12+18+18
	12+21		7+12+21	9+18+21	18+21+21	7+7+12+21	7+9+18+24	9+9+12+18	12+12+12+24	7+7+7+12+21	7+9+9+9+9
12+24		7+12+24	9+18+24	21+21+21	7+7+12+24	7+9+21+21	9+9+12+21	12+12+18+18	7+7+7+12+24	7+9+9+9+12	
18+18		7+18+18	9+21+21		7+7+18+18	7+9+21+24	9+9+12+24	12+12+18+21	7+7+7+18+18	7+9+9+9+18	
18+21		7+18+21	9+21+24		7+7+18+21	7+12+12+12	9+9+18+18		7+7+7+18+21	7+9+9+9+21	
18+24		7+18+24	9+24+24		7+7+18+24	7+12+12+18	9+9+18+21		7+7+9+9+9	7+9+9+9+24	

Outdoor Unit

Model	Heat Pump		GWHD(14)NK3BO (1 to 2)	GWHD(18)NK3DO (1 to 2)	GWHD(24)NK3DO (1 to 2)	GWHD(24)NK3EO	GWHD(28)NK3BO (2 to 4)	GWHD(36)NK3AO	GWHD(42)NK3AO
Capacity	Cooling	Btu/h	14000 (7000-16000)	17000 (7000-21200)	24000 (9200-28000)	24000 (7500-34100)	27296 (7500-34100)	33400 (10200-34100)	39500 (11900-46400)
	Heating	Btu/h	15000 (8500-18800)	19000 (8500-22700)	26000 (11900-32400)	29000 (12300-37500)	32000 (9600-37500)	37500 (15300-40900)	44300 (15300-47700)
EER/COP		W/W	3.57/3.81	3.23/3.63	3.21/3.41	3.21/3.62	3.23/3.63	3.23/3.65	3.23/3.66
Power supply		Ph/V/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
		W	1150 (500-2000)	1550 (500-2550)	2180 (750-4300)	2200 (650-4500)	2480 (650-4500)	3030 (1300-4600)	3590 (1300-4900)
Power input	Cooling	W	1180 (580-2000)	1540 (580-2700)	2260 (1000-4400)	2350 (980-3950)	2550 (980-3950)	3010 (1300-4140)	3545 (1300-4400)
	Heating	W	1180 (580-2000)	1540 (580-2700)	2260 (1000-4400)	2350 (980-3950)	2550 (980-3950)	3010 (1300-4140)	3545 (1300-4400)
Airflow pressure Level		m ³ /h	2600/2300/1600	2600/2300/1600	3300/2900/2400	3300/2900/2400	3300/2900/2400	3000	5500
Sound pressure level		dB(A)	56/53/50	56/53/50	58/54/52	58/54/52	59/56/53	54	54
Dimension (WxHxD)	Outline	mm	899x596x378	899x596x378	955x700x396	955x700x396	955x700x396	950x412x840	1015x440x1103
	Package	mm	948x645x420	948x645x420	1029x750x458	1029x750x458	1029x750x458	1103x453x920	1158x493x1235
Net weight/Gross weight		kg	43/48	43/48	59/64	59/64	60/65	73/78	102/112
Connecting pipe diameter	Gas	mm	φ9.52	φ9.52	φ9.52	φ9.52	φ9.52	φ15.9	φ15.9
	Liquid	mm	φ6.00	φ6.00	φ6.00	φ6.00	φ6.00	φ9.52	φ9.52
Loading quantity	40'GP	-	204	204	171	171	171	108	48
	40'HQ	-	272	272	171	171	171	108	48

Note:
 Outdoor unit for 36K Btu/h has 4 sets of piping connection:
 1. φ15.9mm(Gas), φ9.52mm(Liquid); 2. φ12.7mm(Gas), φ6.35mm(Liquid); 3. φ9.52mm(Gas), φ6.35mm(Liquid); 4. φ9.52mm(Gas), φ6.35mm(Liquid).
 Outdoor unit for 42K Btu/h has 5 sets of piping connection:
 1. φ15.9mm(Gas), φ9.52mm(Liquid); 2. φ12.7mm(Gas), φ6.35mm(Liquid); 3. φ12.7mm(Gas), φ6.35mm(Liquid); 4. φ9.52mm(Gas), φ6.35mm(Liquid); 5. φ9.52mm(Gas), φ6.35mm(Liquid).

Wall Mounted Type Indoor Unit

U-Cool

Model			GWHD(09)UA-K3DNA1A/I	GWHD(12)UB-K3DNA1A/I	GWHD(18)UC-K3DNA1A/I
Capacity	Cooling	Btu/h	9000	12000	18000
	Heating	Btu/h	9800	13000	19200
Airflow volume		m ³ /h	450	560	850
Sound pressure level (SH/H/MH/M/ML/L/SL)		dB(A)	38/34/32/29/27/25/22	39/36/34/31/28/25/23	44/40/37/35/33/31/28
Dimension (WxHxD)	Outline	mm	860x299x153	896x320x159	998x340x178
	Package	mm	944x386x247	973x403x255	1083x428x283
Net weight/Gross weight		kg	9.5/12.5	11.5/14.5	15/19
Loading quantity	40'GP	-	708	615	456
	40'HQ	-	782	696	522

Artful

Model			GWHD(07)AA-K3DNA1B/I	GWHD(09)AA-K3DNA1B/I	GWHD(12)AB-K3DNA1B/I	GWHD(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 (SH/H/MH/M/ML/L/SL)		dB(A)	37/35/32/29/-	38/35/32/29/-	40/35/33/30/-	46/43/38/34/-
Dimension (WxHxD)	Outline	mm	815x267x165	815x267x165	872x283x178	960x300x195
	Package	mm	893x347x275	893x347x275	938x378x275	1038x395x295
Net weight/Gross weight		kg	10/13	10/13	11/15	13/18
Loading quantity	40'GP	-	734	734	640	510
	40'HQ	-	820	820	735	574

Cozy

Model			GWHD(07)MA-K3DNA3B/I	GWHD(09)MA-K3DNA3B/I	GWHD(12)MB-K3DNA3B/I	GWHD(18)MC-K3DNA3B/I
Capacity	Cooling	Btu/h	7200	8900	11900	18100
	Heating	Btu/h	8900	9600	13000	19800
Airflow volume		m ³ /h	450	500	630	850
Sound pressure level (SH/H/MH/M/ML/L/SL)		dB(A)	36/34/31/28/-	37/34/31/28/-	38/34/32/30/-	46/43/40/36/-
Dimension (WxHxD)	Outline	mm	790x265x170	790x265x170	845x275x180	940x298x200
	Package	mm	873x370x251	873x370x251	918x370x258	1013x395x288
Net weight/Gross weight		kg	9/12	9/12	10/13	13/17
Loading quantity	40'GP	-	762	762	722	558
	40'HQ	-	840	840	806	619

Change

Model			GWHD(07)KF-K3DNA5D/I	GWHD(09)KF-K3DNA5D/I	GWHD(12)KF-K3DNA5D/I	GWHD(18)KG-K3DNA5D/I
Capacity	Cooling	Btu/h	7200	8900	11900	18100
	Heating	Btu/h	8900	9600	13000	19800
Airflow volume		m ³ /h	550	600	680	800
Sound pressure level (SH/H/MH/M/ML/L/SL)		dB(A)	40/38/30/24/-	41/38/30/24/-	42/39/31/25/-	45/40/37/32/-
Dimension (WxHxD)	Outline	mm	770x283x201	770x283x201	770x283x201	865x305x215
	Package	mm	844x342x261	844x342x261	844x342x261	948x383x310
Net weight/Gross weight		kg	8/11	8/11	9/12	12/16
Loading quantity	40'GP	-	810	810	810	544
	40'HQ	-	900	900	900	618

Viola

Model			GWHD(07)RA-K3DNA1A/I	GWHD(09)RA-K3DNA1A/I	GWHD(12)RB-K3DNA1A/I	GWHD(18)RC-K3DNA1A/I
Capacity	Cooling	Btu/h	7200	8900	11900	18100
	Heating	Btu/h	8900	9600	13000	19800
Airflow volume		m ³ /h	500	500	630	850
Sound pressure level (SH/H/MH/M/ML/L/SL)		dB(A)	40/37/35/32/-	40/37/35/32/-	42/39/36/33/-	45/42/37/33/-
Dimension (WxHxD)	Outline	mm	794x264.5x182	794x264.5x182	848x274x189	945x298x208
	Package	mm	873x365x258	873x365x258	926x371x267	1013x300x383
Net weight/Gross weight		kg	9/12	9/12	10/13	13/17
Loading quantity	40'GP	-	720	720	664	546
	40'HQ	-	840	840	742	613

Flooring Ceiling Type Indoor Unit

Model			GTH(09)BA-K3DNA1A/I	GTH(12)BA-K3DNA1A/I	GTH(18)BA-K3DNA1A/I	GTH(24)BB-K3DNA2A/I
Capacity	Cooling	Btu/h	8530	11942	17060	24225.2
	Heating	Btu/h	2800	3850	5500	8000
Airflow volume		m ³ /h	550	600	700	1400
Sound pressure level (H/L)		dB(A)	43	44	50	49
Dimension (WxHxD)	Outline	mm	1220x700x225	1220x700x225	1220x700x225	1220x700x225
	Package	mm	1330x825x310	1330x825x310	1330x825x310	1330x825x310
Net weight/Gross weight		kg	35/40	35/40	35/40	35/40
Loading quantity	40'GP	-	132	132	132	132
	40'HQ	-	132	132	132	132

Console Type Indoor Unit

Model			GEH(09)AA-K3DNA1B/I	GEH(12)AA-K3DNA1B/I	GEH(18)AA-K3DNA1B/I
Capacity	Cooling	Btu/h	8900	11900	18100
	Heating	Btu/h	9600	13000	19800
Airflow volume		m ³ /h	480	550	650
Sound pressure level (SH/H/MH/M/ML/L/SL)		dB(A)	40/38/36/33/30/26/24	42/40/38/37/35/32/26	48/46/44/41/37/35/32
Dimension (WxHxD)	Outline	mm	700x600x215	700x600x215	700x600x215
	Package	mm	788x697x283	788x697x283	788x697x283
Net weight/Gross weight		kg	15/18	15/18	15/18
Loading quantity	40'GP	-	392	392	392
	40'HQ	-	454	454	454

Cassette Type Indoor Unit

Model			GKH(12)BA-K3DNA2A/I	GKH(18)BA-K3DNA2A/I	GKH(12)BA-K3DNA1A/I	GKH(18)BA-K3DNA1A/I	GKH(24)BA-K3DNA1A/I	
Capacity	Cooling	Btu/h	11942	15354	3500	5000	7100	
	Heating	Btu/h	13648	17060	3850	5500	8000	
Airflow volume		m ³ /h	600	600	680	680	1180	
Sound pressure level (H/L)		dB(A)	47/41	47/41	42	42	42	
Main body	Dimension (WxHxD)	Outline	mm	570x230x570	570x230x570	840x190x840	840x190x840	840x240x840
		Package	mm	848x310x728	848x310x728	1040x115x1025	1040x115x1025	1040x115x1025
	Net weight/Gross weight	kg	20/27	20/27	6.5/10	6.5/10	6.5/10	
Panel	Dimension (WxHxD)	Outline	mm	650x50x650	650x50x650	950x60x950	950x60x950	950x60x950
		Package	mm	730x102x670	730x102x670	960x257x960	960x257x960	960x310x960
	Net weight/Gross weight	kg	5/10	5/10	25/33	25/33	30/38	
Loading quantity	40'GP	-	237	237	144	144	144	
	40'HQ	-	269	269	144	144	144	

Duct Type Indoor Unit

Model			GFH(09)EA-K3DNA1A/I	GFH(12)EA-K3DNA1A/I	GFH(18)EA-K3DNA1A/I	GFH(21)EA-K3DNA1A/I	GFH(24)EA-K3DNA1A/I
Capacity	Cooling	Btu/h	8530	11942	17060	20472	24225.2
	Heating	Btu/h	2800	3850	5500	6600	8000
Airflow volume		m ³ /h	450	550	700	1000	1000
Sound pressure level (H/L)		dB(A)	37	39	40	42	42
Dimension (WxHxD)	Outline	mm	700x200x615	700x200x615	900x200x615	1100x200x615	1100x200x615
	Package	mm	890x290x740	890x290x740	1120x290x740	1320x290x740	1320x290x740
Net weight/Gross weight		kg	27/27	24/29	25/30	29/35	29/35
Loading quantity	40'GP	-	234	234	192	162	162
	40'HQ	-	234	234	192	162	162



GMV

INVERTER SERIES
DIGITAL SERIES
HOME GMV
HEAT RECOVERY SERIES
BRANCHING JOINT
AIR PROCESSING UNIT
ERV
CONTROL SYSTEM LINEUP



Inverter Series

It is a kind of VRF system that adopt DC inverter compressor and the outdoor unit could be connected with several indoor units to realize independent cooling or heating control in different rooms.

GMV Mini



GMV IV (Modular Series)



- Advanced control functions.
- DC inverter scroll compressor.
- Better reliability.
- ECO-friendly R410A refrigerant.
- Compact outdoor unit.
- Flexible piping Design.
- Greatly improved energy efficiency*: Significantly greater efficiency is realized by the use of DC inverter hermetic scroll compressors with high pressure chamber design, improved DC inverter driving technology and large heat exchanger.
- Modular outdoor unit design*: Various combination form 8HP to 64HP with 2HP increments. Max. capacity of outdoor units is 180kW (4 modules combination).
- Various combinations*: Up to 110 sets of indoor units can be connected. 6 types and 73 models of indoor unit. Max. diversity is 135%.

* For GMV IV only.

Max. piping length volume (meter)		
Item	GMV Mini	GMV IV
Total piping length	150m	500m
Actual piping length	70m	150m
Equivalent piping length	80m	175m
Height difference between indoor units	10m	15m
Height difference between outdoor unit and indoor unit (outdoor unit is located above the indoor unit)	30m	50m
Height difference between indoor unit and outdoor unit (outdoor unit is located underneath the indoor unit)	25m	40m
Piping length from first indoor branch to the farthest indoor unit	25m	40m

GMV Mini

Item	Nominal operating condition (temperature)				Operating range (temperature)
	Outdoor condition		Indoor condition		Outdoor condition
	DB(°C)	WB(°C)	DB(°C)	WB(°C)	DB(°C)
Cooling	35	24	27	19	10~48
Heating	7	6	20	15	-20~27

Model	Heat pump		GMV-Pd160W/NaB-K	GMV-Pd140W/NaB-K	GMV-Pd120W/NaB-K	GMV-Pd100W/NaB-K
Capacity	Cooling	kW	16.0	14.0	12.0	10.0
	Heating	kW	17.6	15.4	14.0	11.0
IPLV	Cooling	kW/kW	4.2	4.4	3.8	3.8
	Power supply	PhV/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Power input	Cooling	kW	4.98	4.36	3.50	2.86
	Heating	kW	4.85	4.05	3.40	2.60
Refrigerant charge volume		kg	7.5	7.5	7.5	7.5
Compressor configuration*			DCx1	DCx1	DCx1	DCx1
Sound pressure level		dB(A)	60	58	58	58
Dimension (WxDxH)	Outline	mm	950x340x1250	950x340x1250	950x340x1250	950x340x1250
	Package	mm	1110x450x1280	1110x450x1280	1110x450x1280	1110x450x1280
Net weight/Gross weight		kg	115/122	111/122	111/122	111/122
Connecting pipe diameter	Gas	inch	φ3/4	φ5/8	φ5/8	φ5/8
	Liquid	inch	φ3/8	φ3/8	φ3/8	φ3/8
Max. equivalent connection pipe length		m	80	80	80	80
Maximum drive IDU NO.		unit	9	8	7	6
Loading quantity	40'GP	—	54	54	54	54
	40'HQ	—	54	54	54	54

D: DC inverter dual-rotor type compressor

GMV IV (Modular Serie)

Item	Nominal operating condition (temperature)				Operating range (temperature)
	Outdoor condition		Indoor condition		Outdoor condition
	DB(°C)	WB(°C)	DB(°C)	WB(°C)	DB(°C)
Cooling	35	24	27	19	-5~48
Heating	7	6	20	15	-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	45.0
	Heating	kW	25.0	31.5	37.5	45.0	50.0
IPLV	Cooling	kW/kW	4.15	4.15	4.15	3.95	4.15
	Power supply	PhV/Hz	3/380-415/50	3/380-415/50	3/380-415/50	3/380-415/50	3/380-415/50
Power input	Cooling	kW	5.52	7.52	9.23	12.45	14.32
	Heating	kW	5.82	7.7	9.38	11.2	13.9
Refrigerant charge volume		kg	12	13	15	16	17
Compressor configuration*			DCx1+Fx1	DCx1+Fx1	DCx1+Fx2	DCx1+Fx2	DCx1+Fx2
Sound pressure level		dB(A)	58	58	60	61	61
Dimension (WxDxH)	Outline	mm	930x770x1670	930x770x1670	1340x770x1670	1340x770x1670	1340x770x1670
	Package	mm	1010x850x1850	1010x850x1850	1420x850x1850	1420x850x1850	1420x850x1850
Net weight/Gross weight		kg	255/275	255/275	350/380	350/380	370/400
Connecting pipe diameter	Gas	inch	φ7/8	φ7/8	φ9/8	φ9/8	φ9/8
	Liquid	inch	φ3/8	φ3/8	φ1/2	φ1/2	φ1/2
	Oil balance	inch	φ1/2	φ1/2	φ1/2	φ1/2	φ1/2
Max. equivalent connection pipe length		m	150	150	150	150	150
Maximum drive IDU NO.		unit	14	14	16	16	16
Loading quantity	40'GP	—	24	24	16	16	16
	40'HQ	—	24	24	16	16	16

DC: DC inverter scroll compressor F: Fixed frequency scroll compressor

Digital Series



It is a kind of VRF system that adopt DC inverter compressor and the outdoor unit could be connected with several indoor units to realize independent cooling or heating control in different rooms.

GMV D



GMV D4 (Modular Series)



Golden fin condenser	Inner groove copper	High efficiency	Intelligent defrosting	Energy saving function	Precise temperature control	Quiet function	Modular operating*	Comprehensive protection
Wide voltage range	Wide operation range	Compact design	Easier maintainability	Centralized control	Long-distance monitoring			

- Advanced control functions.
- DC inverter scroll compressor.
- Better reliability.
- ECO-friendly R410A refrigerant.
- Compact outdoor unit.
- Flexible piping Design.
- Greatly improved energy efficiency*:
Significantly greater efficiency is realized by the use of advanced digital (PWM variable capacity) compressor and large heat exchanger.
- Modular Outdoor unit design*:
Various combination form 8HP to 72HP with 2HP increments.
Max. capacity of outdoor units is 201.6kW (4 modules combination).
- Various combinations*:
Up to 110 sets of indoor units can be connected.
6 types and 73 models of indoor unit.
Max. diversity is 135%.

* For GMV D4 only.

Item	Max. piping length volume (meter)	
	GMV D	GMV D4
Total piping length	150m	500m
Actual piping length	70m	150m
Equivalent piping length	80m	175m
Height difference between indoor units	10m	15m
Height difference between outdoor unit and indoor unit (outdoor unit is located above the indoor unit)	30m	50m
Height difference between indoor unit and outdoor unit (outdoor unit is located underneath the indoor unit)	25m	40m
Piping length from first indoor branch to the farthest indoor unit	25m	40m

GMV D

Item	Nominal operating condition (temperature)				Operating range (temperature)
	Outdoor condition		Indoor condition		Outdoor condition
	DB(°C)	WB(°C)	DB(°C)	WB(°C)	DB(°C)
Cooling	35	24	27	19	10~48
Heating	7	6	20	15	-15~27

Model	Heat pump		GMV-R260W2/Na-M	GMV-R300W2/Na-M	GMV-R450W3/Na-M	GMV-R560W4/Na-M	GMV-R600W4/Na-M	GMV-R900W6/Na-M
Capacity	Cooling	kW	26	30	45	56	60	90
	Heating	kW	28.5	33.5	48	60	63	100
Power supply		Ph/V/Hz	3/380-415/50	3/380-415/50	3/380-415/50	3/380-415/50	3/380-415/50	3/380-415/50
Power input	Cooling	kW	8.5	9.0	14.5	18.5	19.2	30.1
	Heating	kW	8.0	8.8	13.7	18.0	18.2	27.5
IPLV	Cooling	kW/kW	3.4	3.4	3.6	3.6	3.6	3.6
Refrigerant charge volume		kg	14	14	20	25	25	45
Compressor configuration*			Dx1+Fx1	Dx1+Fx1	Dx1+Fx2	Dx1+Fx3	Dx1+Fx3	Dx1+Fx5
Sound pressure level		dB(A)	58	58	60	60	60	62
Dimension (WxDxH)	Outline	mm	990x880x1772	990x880x1772	1290x880x1772	1980x920x1760	1980x920x1760	2580x880x1772
	Package	mm	1162x980x1950	1162x980x1950	1370x980x1950	2152x980x1950	2152x980x1950	2660x980x1950
Net weight/Gross weight		kg	280/310	300/330	450/490	600/640	600/640	800/850
		inch	φ7/8	φ7/8	φ1-1/8	φ1-1/8	φ1-1/8	φ1-3/8
Connecting pipe diameter	Gas	inch	φ3/8	φ3/8	φ1/2	φ5/8	φ5/8	φ3/4
	Liquid	inch	φ3/8	φ3/8	φ1/2	φ5/8	φ5/8	φ3/4
Max. equivalent connection pipe length		m	125	125	125	125	125	150
Maximum drive IDU NO.		unit	16	16	16	32	32	32
Loading quantity	40'GP		22	22	17	12	12	8
	40'HQ		22	22	17	12	12	8

D: Digital scroll compressor F: Fixed frequency scroll compressor

GMV D4 (Modular series)

Item	Nominal operating condition (temperature)				Operating range (temperature)
	Outdoor condition		Indoor condition		Outdoor condition
	DB(°C)	WB(°C)	DB(°C)	WB(°C)	DB(°C)
Cooling	35	24	27	19	-5~48
Heating	7	6	20	15	-20~27

Model	Heat pump		GMV-Rm224W/Na-M	GMV-Rm280W/Na-M	GMV-Rm335W/Na-M	GMV-Rm400W/Na-M	GMV-Rm450W/Na-M	GMV-Rm504W/Na-M
Capacity	Cooling	kW	22	28	34	40	45	50.4
	Heating	kW	25	31	36	44	50	55
IPLV	Cooling	kW/kW	3.4	3.45	3.55	3.6	3.6	3.6
Power supply		Ph/V/Hz	3/380-415/50	3/380-415/50	3/380-415/50	3/380-415/50	3/380-415/50	3/380-415/50
Power input	Cooling	kW	8.3	10.7	12.6	16.1	18	18.8
	Heating	kW	7.8	9.1	10.2	12.6	14.7	15
Refrigerant charge volume		kg	14	16	17	18	20	20
Compressor configuration*			Dx1+Fx1	Dx1+Fx1	Dx1+Fx1	Dx1+Fx2	Dx1+Fx2	Dx1+Fx2
Sound pressure level		dB(A)	58	58	62	62	62	62
Dimension (WxDxH)	Outline	mm	930x770x1670	930x770x1670	1340x770x1670	1340x770x1670	1340x770x1670	1340x770x1670
	Package	mm	1030x850x1850	1030x850x1850	1420x850x1850	1420x850x1850	1420x850x1850	1420x850x1850
Net weight/Gross weight		kg	280/310	300/330	410/450	450/490	450/490	450/490
		inch	φ7/8	φ7/8	φ9/8	φ9/8	φ9/8	φ9/8
Connecting pipe diameter	Gas	inch	φ3/8	φ3/8	φ1/2	φ1/2	φ1/2	φ5/8
	Liquid	inch	φ3/8	φ3/8	φ1/2	φ1/2	φ1/2	φ5/8
Max. equivalent connection pipe length		m	150	150	150	150	150	
Maximum drive IDU NO.		unit	14	14	16	16	16	
Loading quantity	40'GP		28	28	22	22	22	
	40'HQ		28	28	22	22	22	

D: Digital scroll compressor F: Fixed frequency scroll compressor

Outdoor Units Lineup—Inverter Series

MODEL		GMV-Pdm224W/NaB-M (8HP)	GMV-Pdm280W/NaB-M (10HP)	GMV-Pdm335W/NaB-M (12HP)	GMV-Pdm400W/NaB-M (14HP)	GMV-Pdm450W/NaB-M (16HP)
	GMV-Pdm224W/NaB-M (8HP)	●				
	GMV-Pdm280W/NaB-M (10HP)		●			
	GMV-Pdm335W/NaB-M (12HP)			●		
	GMV-Pdm400W/NaB-M (14HP)				●	
	GMV-Pdm450W/NaB-M (16HP)					●
	GMV-Pdm504W2/NaB-M (18HP)	●	●			
	GMV-Pdm560W2/NaB-M (20HP)		●●			
	GMV-Pdm615W2/NaB-M (22HP)		●	●		
	GMV-Pdm670W2/NaB-M (24HP)		●		●	
	GMV-Pdm730W2/NaB-M (26HP)		●			●
	GMV-Pdm785W2/NaB-M (28HP)			●		●
	GMV-Pdm850W2/NaB-M (30HP)				●	●
	GMV-Pdm900W2/NaB-M (32HP)					●●
	GMV-Pdm950W3/NaB-M (34HP)		●●		●	
	GMV-Pdm1008W3/NaB-M (36HP)		●●			●
	GMV-Pdm1065W3/NaB-M (38HP)		●	●		●
	GMV-Pdm1130W3/NaB-M (40HP)		●		●	●
	GMV-Pdm1180W3/NaB-M (42HP)		●			●●
	GMV-Pdm1235W3/NaB-M (44HP)			●		●●
	GMV-Pdm1300W3/NaB-M (46HP)				●	●●
	GMV-Pdm1350W3/NaB-M (48HP)					●●●
	GMV-Pdm1405W4/NaB-M (50HP)		●●		●	●
	GMV-Pdm1456W4/NaB-M (52HP)		●●			●●
	GMV-Pdm1512W4/NaB-M (54HP)		●	●		●●
	GMV-Pdm1570W4/NaB-M (56HP)		●		●	●●
	GMV-Pdm1650W4/NaB-M (58HP)		●			●●●
	GMV-Pdm1700W4/NaB-M (60HP)			●		●●●
	GMV-Pdm1750W4/NaB-M (62HP)				●	●●●
	GMV-Pdm1800W4/NaB-M (64HP)					●●●

Outdoor Units Lineup—Digital Series

MODEL		GMV-Rm224W/Na-M (8HP)	GMV-Rm280W/Na-M (10HP)	GMV-Rm335W/Na-M (12HP)	GMV-Rm400W/Na-M (14HP)	GMV-Rm450W/Na-M (16HP)	GMV-Rm504W/Na-M (18HP)
	GMV-Rm224W/Na-M (8HP)	●					
	GMV-Rm280W/Na-M (10HP)		●				
	GMV-Rm335W/Na-M (12HP)			●			
	GMV-Rm400W/Na-M (14HP)				●		
	GMV-Rm450W/Na-M (16HP)					●	
	GMV-Rm504W/Na-M (18HP)						●
	GMV-Rm560W2/Na-M (20HP)		●●				
	GMV-Pdm615W2/Na-M (22HP)		●	●			
	GMV-Rm670W2/Na-M (24HP)			●●			
	GMV-Rm730W2/Na-M (26HP)			●	●		
	GMV-Rm800W2/Na-M (28HP)				●●		
	GMV-Rm850W2/Na-M (30HP)				●	●	
	GMV-Rm900W2/Na-M (32HP)				●●	●●	
	GMV-Rm954W3/Na-M (34HP)					●	●
	GMV-Rm1008W3/Na-M (36HP)						●●
	GMV-Rm1070W3/Na-M (38HP)			●●	●		
	GMV-Rm1135W3/Na-M (40HP)			●	●●		
	GMV-Rm1200W3/Na-M (42HP)				●●		
	GMV-Rm1250W3/Na-M (44HP)				●●	●	
	GMV-Rm1300W3/Na-M (46HP)				●	●●	
	GMV-Rm1350W3/Na-M (48HP)					●●	
	GMV-Rm1405W3/Na-M (50HP)					●●	●
	GMV-Rm1458W3/Na-M (52HP)					●	●●
GMV-Rm1512W3/Na-M (54HP)						●●	
	GMV-Rm1600W4/Na-M (56HP)				●●		
	GMV-Rm1650W4/Na-M (58HP)				●●	●	
	GMV-Rm1700W4/Na-M (60HP)				●●	●●	
	GMV-Rm1750W4/Na-M (62HP)				●	●●	
	GMV-Rm1800W4/Na-M (64HP)					●●	
	GMV-Rm1854W4/Na-M (66HP)					●●	●
	GMV-Rm1908W4/Na-M (68HP)					●●	●●
	GMV-Rm1962W4/Na-M (70HP)					●	●●
GMV-Rm2016W4/Na-M (72HP)						●●	



HOME GMV(Inverter series with heat recovery)

Outdoor Unit



Water Tank



Hydro Box



- Golden fin condenser
- Inner groove copper
- High efficiency
- Intelligent defrosting
- Precise temperature control
- Quiet function
- Comprehensive protection
- Wide voltage range
- Wide operation range
- Compact design
- Easier maintainability
- Centralized control
- Long-distance monitoring

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

Operation range	Mode	Outdoor Condition(DB°C)
	Cooling	-5°C~48°C
	Heating	-20°C~27°C
	Cooling and water heating	-5°C~43°C
	Heating and water heating	-15°C~24°C
	Water heating	-15°C~43°C

Outdoor Unit

Model	GMV-Pds100W/Na-K	GMV-Pds120W/Na-K	GMV-Pds140W/Na-K	GMV-Pds160W/Na-K	GMV-Pds224W/Na-M	GMV-Pds280W/Na-M		
Capacity	Cooling	10.0	12.0	14.0	16.0	22.4	28.0	
	Heating	11.0	13.2	15.4	17.6	25.0	31.5	
ECOP	kW/kW	6.0	6.0	6.6	6.6	6.0	6.4	
Power supply	Ph/V/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	3/380-415/50	3/380-415/50	
Refrigerant charge volume	kg	5	5	7	7	15	16	
Compressor configuration*	—	DCx1	DCx1	DCx1	DCx1	DCx1+Fx1	DCx1+Fx1	
Rated power input	Cooling	kW	4.50	5.00	5.50	5.90	6.82	7.52
	Heating	kW	3.80	4.20	4.90	5.30	6.97	7.70
	Water heating	kW	2.00	2.00	2.86	2.86	8.00	10.70
Airflow rate	m³/h	6400	6400	6400	6400	10000	10000	
	CFM	3766	3766	3766	3766	5885	5885	
Sound pressure level	dB(A)	56	56	58	60	58	58	
Dimension (WxDxH)	Outline	mm	950x340x1250	950x340x1250	950x340x1250	950x340x1250	930x770x1670	930x770x1670
	Package	mm	1113x453x1295	1113x453x1295	1113x453x1295	1113x453x1295	1013x853x1864	1013x853x1864
Net weight/Gross weight	kg	105/115	105/115	115/125	115/125	265/285	265/285	
Connecting pipe diameter	Gas (AC)	inch	Φ3/4	Φ3/4	Φ3/4	Φ3/4	Φ3/4	Φ3/4
	Liquid(AC)	inch	Φ3/8	Φ3/8	Φ3/8	Φ3/8	Φ3/8	Φ3/8
	Gas(water)	inch	Φ5/8	Φ5/8	Φ5/8	Φ5/8	Φ3/4	Φ3/4
	Liquid(water)	inch	Φ1/2	Φ1/2	Φ1/2	Φ1/2	Φ5/8	Φ5/8
Loading quantity	40'GP	—	53	53	53	28	28	
	40'HQ	—	52	52	52	28	28	

DC: DC inverter scroll compressor F: Fixed frequency scroll compressor

Water Tank

Model		SXD250LC-K	SXD300LC-K	SXD350LC-K	SXD400LC-K	SXVD200LCJ/A-K	SXVD300LCJ/A-K	
Tank volume	L	250	300	350	400	200	300	
Max. working pressure	MPa	0.7	0.7	0.7	0.7	0.7	0.7	
Auxiliary electrical heater power input	kW	1.5	1.5	1.5	1.5	3.0	3.0	
Power supply	Ph/V/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	
Dimension	Thickness(inner)	mm	1.5	1.5	1.5	1.5	1.5	
	Thickness(external)	mm	50	45	45	45	50	45
	Outline diameter	mm	540	620	620	620	540	620
	Outline height	mm	1945	1620	1895	2125	1595	1620
	Package(WxDxH)	mm	628x1973x645	708x1648x725	708x1923x725	708x2153x725	628x1623x645	708x1648x725
Net weight/Gross weight	kg	68/77	71/81	79/90	86/98	68/77	82/92	
Outer diameter	Circular pipe	inch	Φ3/4	Φ3/4	Φ3/4	Φ3/4	Φ3/4	
	Cold water pipe	inch	Φ1/2	Φ1/2	Φ1/2	Φ1/2	Φ1/2	
	Hot water pipe	inch	Φ1/2	Φ1/2	Φ1/2	Φ1/2	Φ1/2	
Loading quantity	40'GP	—	54	63	54	48	75	
	40'HQ	—	72	63	54	48	100	

Model		SXVD350LCJ/A-K	SXVD400LCJ/A-K	SXVD200LCJ2/A-K	SXVD300LCJ2/A-K	SXVD350LCJ2/A-K	SXVD400LCJ2/A-K
Tank volume	L	350	400	200	300	350	400
Max. working pressure	MPa	0.7	0.7	0.7	0.7	0.7	0.7
Auxiliary electrical heater power input	kW	3	3	3	3	3	3
Power supply	Ph/V/Hz	1/220-240/50Hz	1/220-240/50Hz	1/220-240/50Hz	1/220-240/50Hz	1/220-240/50Hz	1/220-240/50Hz
Dimension	Thickness(inner)	mm	1.5	1.5	1.5	1.5	1.5
	Thickness(external)	mm	45	45	50	45	45
	Outline diameter	mm	620	620	540	620	620
	Outline height	mm	1895	2125	1595	1620	1895
	Package(WxDxH)	mm	708x1923x737	708x2153x737	628x1623x645	708x1648x725	708x1923x737
Net weight/Gross weight	kg	96/122	106/134	71/80	87/97	100/126	110/139
Outer diameter	Circular pipe	inch	Φ3/4	Φ3/4	Φ3/4	Φ3/4	Φ3/4
	Cold water pipe	inch	Φ1/2	Φ1/2	Φ1/2	Φ1/2	Φ1/2
	Hot water pipe	inch	Φ1/2	Φ1/2	Φ1/2	Φ1/2	Φ1/2
Loading quantity	40'GP	—	54	48	75	63	54
	40'HQ	—	54	48	100	63	54

Hydro Box

Model		RQD5GA-K	RQD8GA-K	RQ5GB-K	RQ8GB-K	RQD5GB-K	
Heating capacity	kW	5.00	8.00	5.00	8.00	5.00	
Dimension (WxDxH)	Outline	mm	650x300x250	650x300x250	650x300x250	650x300x250	650x435x270
	Package	mm	728x368x328	728x368x328	728x368x328	728x368x328	753x508x347
Power supply	Ph/V/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	
Connecting pipe diameter	to ODU	Gas	inch	Φ5/8	Φ5/8	Φ5/8	Φ5/8
		Liquid	inch	Φ1/2	Φ1/2	Φ1/2	Φ1/2
	to water tank	inch	Φ3/4	Φ3/4	Φ3/4	Φ3/4	Φ3/4
Water pump	Type	—	RS15/6	RS15/6	RS15/6	RS15/6	
	Power input	kW	80	80	80	80	
	Water flow	L/s	1000	1000	1000	1000	
		GPM	4.4	4.4	4.4	4.4	
Delivery lift	m	6	6	6	6		
Net weight/Gross weight	kg	25/28	25/28	25/28	25/28	31/34	
Loading quantity	40'GP	—	672	672	672	450	
	40'HQ	—	672	672	672	450	








Model		RQD8GB-K	RQ20LA-K	RQ30LA-K	RQD20LA-M	RQD30LA-M
Heating capacity	kW	8.00	20.00	30.00	20.00	30.00
Dimension (WxDxH)	Outline	mm	650x435x270	1050x470x760	1050x470x910	1050x470x910
	Package	mm	753x508x347	1123x503x905	1123x503x1055	1123x503x905
Power supply	Ph/V/Hz	1/220-240/50	1/220-240/50	1/220-240/50	3/380-415/50	3/380-415/50
Connecting pipe diameter	to ODU	Gas	inch	Φ5/8	Φ3/4	Φ3/4
		Liquid	inch	Φ1/2	Φ5/8	Φ5/8
	to water tank	inch	Φ3/4	Φ1	Φ1	
Water pump	Type	—	MHI202	MHI202	MHI202	MHI202
	Power input	kW	80	370	370	370
	Water flow	L/s	1000	2600	2600	2600
		GPM	4.4	11.44	11.44	11.44
Delivery lift	m	6	15	15	15	
Net weight/Gross weight	kg	31/34	75/90	100/115	110/122	120/135
Loading quantity	40'GP	—	450	92	92	92
	40'HQ	—	450	92	92	92

Indoor Units Lineup (for Inverter Series & Digital Series & HOME GMV)

Capacity Index (kw)			2.2	2.8	3.6	4.5	5.0	5.6	6.3	7.1	8.0	9.0	10.0	11.2	12.5	14.0	22.4	28.0	
Duct	High ESP type		•	•	•	•		•		•		•		•		•			
																		•	•
	Slim type		•	•	•	•		•		•									
Cassette	4-way			•	•	•	•	•	•	•	•	•	•	•	•	•			
	Compact 4-way		•	•	•	•													
	1-way		•	•	•														
Wall mounted	EXV separated		•	•	•	•	•	•											
											•	•							
	EXV integrated		•	•	•	•	•	•		•									
Floor ceiling	EXV separated			•	•		•			•		•							
														•	•				
	EXV integrated			•	•		•												
											•		•						
														•	•	•			
Console				•	•		•												
Floor standing										•		•				•			

High ESP Duct Type Indoor Unit



-  Fresh air supply ventilation
-  Quiet function
-  High ESP
-  Multi fan speed
-  Compact design
-  Easier maintainability
-  Key-card control

Model	with drain water pump		GMV-R22P/NaB-K	GMV-R28P/NaB-K	GMV-R36P/NaB-K	GMV-R45P/NaB-K	GMV-R56P/NaB-K	GMV-R71P/NaB-K
	without drain water pump		GMV-R22PS/NaB-K	GMV-R28PS/NaB-K	GMV-R36PS/NaB-K	GMV-R45PS/NaB-K	GMV-R56PS/NaB-K	GMV-R71PS/NaB-K
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.6	7.1
	Heating	kW	2.5	3.2	4.0	5.0	6.3	8.0
Power supply	Ph/V/Hz		1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Motor power input	W		75	80	80	140	240	240
Air flow volume	m³/h		450	570	570	700	1000	1100
	CFM		265	335	335	412	589	647
Standard ESP	Pa		20/50	20/50	20/50	20/50	30/60	30/60
Sound pressure level	dB(A)		37/35/33	39/37/35	39/37/35	40/38/36	44/42/40	45/43/41
Dimension (WxDxH)	Outline	mm	880x665x250	880x665x250	880x665x250	980x721x266	1155x736x300	1155x736x300
	Package	mm	1023x748x320	1023x748x320	1023x748x320	1123x798x323	1248x788x375	1248x788x375
Net weight/Gross weight	with DWP*	kg	28.5/33.5	30.5/35.5	30.5/35.5	36/39	51/58	51/58
	without DWP*	kg	27/31	28.5/33.5	28.5/33.5	34/37	49/56	49/56
Connecting pipe diameter	Gas	inch	φ3/8	φ3/8	φ1/2	φ1/2	φ5/8	φ5/8
	Liquid	inch	φ1/4	φ1/4	φ1/4	φ1/4	φ3/8	φ3/8
Loading quantity	40'GP	—	198	198	198	180	108	108
	40'HQ	—	198	198	198	180	108	108

Model	with drain water pump		GMV-R90P/NaB-K	GMV-R112P/NaB-K	GMV-R140P/NaB-K	GMV-R224P/NaB-M	GMV-R280P/NaB-M
	without drain water pump		GMV-R90PS/NaB-K	GMV-R112PS/NaB-K	GMV-R140PS/NaB-K	—	—
Capacity	Cooling	kW	9.0	11.2	14.0	22.4	28.0
	Heating	kW	10.0	12.5	15.0	25.0	31.0
Power supply	Ph/V/Hz		1/220-240/50	1/220-240/50	1/220-240/50	3/380-415/50	3/380-415/50
Motor power input	W		360	360	500	1600	1600
Air flow volume	m³/h		1700	1700	2000	4000	4800
	CFM		1000	1000	1177	2381	2857
Standard ESP	Pa		40/80	40/80	50/100	200	220
Sound pressure level	dB(A)		48/46/44	48/46/44	50/48/46	56	57
Dimension (WxDxH)	Outline	mm	1425x736x300	1425x736x300	1425x736x300	1463x799x389	1628x869x454
	Package	mm	1517x788x375	1517x788x375	1517x788x375	1540x880x470	1745x1025x580
Net weight/Gross weight	with DWP*	kg	64/73	64/73	65.5/75	88/102	113/152
	without DWP*	kg	62/71	62/71	63.5/73	88/102	113/152
Connecting pipe diameter	Gas	inch	φ5/8	φ5/8	φ5/8	φ5/8	φ5/8
	Liquid	inch	φ3/8	φ3/8	φ3/8	φ3/8	φ3/8
Loading quantity	40'GP	—	84	84	84	75	52
	40'HQ	—	84	84	84	89	65

* DWP means drain water pump.

Slim Duct Type Indoor Unit



Model		GMV-R22PS/NaE-K	GMV-R28PS/NaE-K	GMV-R36PS/NaE-K	GMV-R45PS/NaE-K	GMV-R56PS/NaE-K	GMV-R71PS/NaE-K
Capacity	Cooling	2.2	2.8	3.6	4.5	5.6	7.1
	Heating	2.5	3.2	4.0	5.0	6.3	8.0
Power supply	PhV/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Motor power input	W	64	64	70	91	91	100
Air flow volume	m ³ /h	450	450	550	700	700	1000
	CFM	265	265	324	412	412	589
Standard ESP	Pa	20	20	20	20	20	20
Sound pressure level	dB(A)	37/35/33	37/35/33	39/37/35	40/38/36	41/39/37	42/40/38
Dimension (WxDxH)	Outline	700x615x200	700x615x200	700x615x200	900x615x200	900x615x200	1100x615x200
	Package	890x740x290	890x740x290	890x740x290	1120x740x290	1120x740x290	1320x740x290
Net weight/ Gross weight	kg	21/27	21/27	21/27	26/33	26/33	30/39
Connecting pipe diameter	Gas	φ3/8	φ3/8	φ1/2	φ1/2	φ5/8	φ5/8
	Liquid	φ1/4	φ1/4	φ1/4	φ1/4	φ3/8	φ3/8
Loading quantity	40'GP	—	234	234	192	192	162
	40'HQ	—	234	234	192	192	162

Cassette Type Indoor Unit



Model		GMV-R22T/NaA-K	GMV-R28T/NaA-K	GMV-R36T/NaA-K	GMV-R45T/NaA-K	GMV-R56T/NaA-K	GMV-R71T/NaA-K
Capacity	Cooling	2.2	2.8	3.6	4.5	5.6	7.1
	Heating	2.5	3.2	4.0	5.0	6.3	8.0
Power supply	PhV/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Motor power input	W	12	12	12	12	42	42
Air flow volume	m ³ /h	600	600	600	600	450	500
	CFM	353	353	354	355	265	294
Sound pressure level	dB(A)	47/41	47/41	47/41	47/41	45/43/41	45/43/41
Main body	Dimension (WxDxH)	570x570x230	570x570x230	570x570x230	570x570x230	920x360x185	920x360x185
	Package	848x728x310	848x728x310	848x728x310	848x728x310	1290x465x270	1290x465x270
Net weight/Gross weight	kg	20/27	20/27	20/27	20/27	16/25	16/25
Panel	Dimension (WxDxH)	650x650x50	650x650x50	650x650x50	650x650x50	1180x430x30	1180x430x30
	Package	730x670x102	730x670x102	730x670x102	730x670x102	1260x505x110	1260x505x110
Net weight/Gross weight	kg	2.5/3.56	2.5/3.56	2.5/3.56	2.5/3.56	3/5	3/5
Connecting pipe diameter	Gas	φ3/8	φ3/8	φ1/2	φ1/2	φ3/8	φ3/8
	Liquid	φ1/4	φ1/4	φ1/4	φ1/4	φ1/4	φ1/4
Loading quantity	40'GP	—	237	237	237	216	216
	40'HQ	—	269	269	269	251	251

4-way Cassette

Model		GMV-R28T/Na-K	GMV-R36T/Na-K	GMV-R45T/Na-K	GMV-R50T/Na-K	GMV-R56T/Na-K	GMV-R63T/Na-K
Capacity	Cooling	2.8	3.6	4.5	5.0	5.6	6.3
	Heating	3.2	4.0	5.0	5.8	6.3	7.1
Power supply	PhV/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Motor power input	W	65	65	65	65	83	83
Air flow volume	m ³ /h	680	680	680	680	1180	1180
	CFM	400	400	400	400	694	694
Sound pressure level	dB(A)	37/35/33	37/35/33	37/35/33	37/35/33	39/37/35	39/37/35
Main body	Dimension (WxDxH)	840x840x190	840x840x190	840x840x190	840x840x190	840x840x240	840x840x240
	Package	960x960x257	960x960x257	960x960x257	960x960x257	960x960x310	960x960x310
Net weight/Gross weight	kg	25/33	25/33	25/33	25/33	30/38	30/38
Panel	Dimension (WxDxH)	950x950x60	950x950x60	950x950x60	950x950x60	950x950x60	950x950x60
	Package	1040x1025x115	1040x1025x115	1040x1025x115	1040x1025x115	1040x1025x115	1040x1025x115
Net weight/Gross weight	kg	6.5/10	6.5/10	6.5/10	6.5/10	6.5/10	6.5/10
Connecting pipe diameter	Gas	φ3/8	φ1/2	φ1/2	φ1/2	φ5/8	φ5/8
	Liquid	φ1/4	φ1/4	φ1/4	φ1/4	φ3/8	φ3/8
Loading quantity	40'GP	—	167	167	167	140	140
	40'HQ	—	171	171	171	156	156

Model		GMV-R80T/Na-K	GMV-R90T/Na-K	GMV-R100T/Na-K	GMV-R112T/Na-K	GMV-R125T/Na-K	GMV-R140T/Na-K
Capacity	Cooling	8.0	9.0	10.0	11.2	12.5	14.0
	Heating	8.8	10.0	11.0	12.5	13.5	14.5
Power supply	PhV/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Motor power input	W	83	133	133	133	133	133
Air flow volume	m ³ /h	1180	1860	1860	1860	1860	1860
	CFM	694	1095	1095	1095	1095	1095
Sound pressure level	dB(A)	39/37/35	40/38/36	40/38/36	40/38/36	40/38/36	40/38/36
Main body	Dimension (WxDxH)	840x840x240	840x840x320	840x840x320	840x840x320	840x840x320	840x840x320
	Package	960x960x310	960x960x394	960x960x394	960x960x394	960x960x394	960x960x394
Net weight/Gross weight	kg	30/38	38/46	38/46	38/46	38/46	38/46
Panel	Dimension (WxDxH)	950x950x60	950x950x60	950x950x60	950x950x60	950x950x60	950x950x60
	Package	1040x1025x115	1040x1025x115	1040x1025x115	1040x1025x115	1040x1025x115	1040x1025x115
Net weight/Gross weight	kg	6.5/10	6.5/10	6.5/10	6.5/10	6.5/10	6.5/10
Connecting pipe diameter	Gas	φ5/8	φ5/8	φ5/8	φ5/8	φ5/8	φ5/8
	Liquid	φ3/8	φ3/8	φ3/8	φ3/8	φ3/8	φ3/8
Loading quantity	40'GP	—	140	104	104	104	104
	40'HQ	—	156	119	119	119	119

Compact 4-way Cassette & 1-way Cassette

Model		Compact 4-way Cassette				1-way Cassette		
		GMV-R22T/NaA-K	GMV-R28T/NaA-K	GMV-R36T/NaA-K	GMV-R45T/NaA-K	GMV-R22Td/Na-K	GMV-R28Td/Na-K	GMV-R36Td/Na-K
Capacity	Cooling	2.2	2.8	3.6	4.5	2.2	2.8	3.6
	Heating	2.5	3.2	4.0	5.0	2.5	3.2	4.0
Power supply	PhV/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Motor power input	W	12	12	12	12	42	42	42
Air flow volume	m ³ /h	600	600	600	600	450	500	500
	CFM	353	353	354	355	265	294	294
Sound pressure level	dB(A)	47/41	47/41	47/41	47/41	45/43/41	45/43/41	45/43/41
Main body	Dimension (WxDxH)	570x570x230	570x570x230	570x570x230	570x570x230	920x360x185	920x360x185	920x360x185
	Package	848x728x310	848x728x310	848x728x310	848x728x310	1290x465x270	1290x465x270	1290x465x270
Net weight/Gross weight	kg	20/27	20/27	20/27	20/27	16/25	16/25	16/25
Panel	Dimension (WxDxH)	650x650x50	650x650x50	650x650x50	650x650x50	1180x430x30	1180x430x30	1180x430x30
	Package	730x670x102	730x670x102	730x670x102	730x670x102	1260x505x110	1260x505x110	1260x505x110
Net weight/Gross weight	kg	2.5/3.56	2.5/3.56	2.5/3.56	2.5/3.56	3/5	3/5	3/5
Connecting pipe diameter	Gas	φ3/8	φ3/8	φ1/2	φ1/2	φ3/8	φ3/8	φ1/2
	Liquid	φ1/4	φ1/4	φ1/4	φ1/4	φ1/4	φ1/4	φ1/4
Loading quantity	40'GP	—	237	237	237	216	216	216
	40'HQ	—	269	269	269	251	251	251

Wall Mounted Type Indoor Unit



Floor Ceiling Type Indoor Unit



EXV Separated

Model			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	4.5
	Heating	kW	2.5	3.2	4.0	5.0
Power supply	PhV/Hz		1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Motor power input	W		32	32	48	48
	m ³ /h		360	360	500	500
Air flow volume	CFM		212	212	294	294
	Sound pressure level (H/M/L)	dB(A)	37/33/28	37/33/28	43/38/32	43/38/32
Dimension (WxDxH)	Outline	mm	770x190x250	770x190x250	830x189x285	830x189x285
	Package	mm	955x330x272	955x330x272	1006x385x265	1006x385x265
Net weight/Gross weight	kg		8.0/14.3	8.0/14.3	11.0/15.8	11.0/15.8
Connecting pipe diameter	Gas	inch	Φ3/8	Φ3/8	Φ1/2	Φ1/2
	Liquid	inch	Φ1/4	Φ1/4	Φ1/4	Φ1/4
Loading quantity	40'GP	—	735	735	606	606
	40'HQ	—	840	840	676	676

Model			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	8.0
	Heating	kW	5.8	6.3	8.0	9.0
Power supply	PhV/Hz		1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Motor power input	W		56	58	63	85
	m ³ /h		700	750	1200	1200
Air flow volume	CFM		412	442	706	706
	Sound pressure level (H/M/L)	dB(A)	45/42/40	45/42/40	49/45/42	49/45/42
Dimension (WxDxH)	Outline	mm	1020x228x310	1020x228x310	1178x227x326	1178x227x326
	Package	mm	1178x325x390	1178x325x390	1365x417x333	1365x417x333
Net weight/Gross weight	kg		15.5/20.5	15.5/20.5	17.5/23	17.5/23
Connecting pipe diameter	Gas	inch	Φ1/2	Φ5/8	Φ5/8	Φ5/8
	Liquid	inch	Φ1/4	Φ3/8	Φ3/8	Φ3/8
Loading quantity	40'GP	—	420	420	303	303
	40'HQ	—	470	470	343	343

EXV Integrated

Model			GMV-R22G/NaG-K	GMV-R28G/NaG-K	GMV-R36G/NaG-K	GMV-R45G/NaG-K	GMV-R50G/NaG-K	GMV-R56G/NaG-K	GMV-R71G/NaG-K
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.0	5.6	7.1
	Heating	kW	2.5	3.2	4.0	5.0	5.8	6.3	8.0
Power supply	PhV/Hz		1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Motor power input	W		50	50	60	60	60	70	70
	m ³ /h		500	500	630	630	630	800	800
Air flow volume	CFM		294	294	371	371	371	471	471
	Sound pressure level (H/M/L)	dB(A)	38/36/34	38/36/35	44/41/38	44/41/38	44/41/38	44/40/38	44/40/38
Dimension (WxDxH)	Outline	mm	843x180x275	843x180x275	940x200x298	940x200x298	940x200x298	1008x221x319	1008x221x319
	Package	mm	915x255x355	915x255x355	1010x285x380	1010x285x380	1010x285x380	1073x313x395	1073x313x395
Net weight/Gross weight	kg		10.5/12.5	10.5/12.5	13/16	13/16	13/16	15/20	15/20
Connecting pipe diameter	Gas	inch	Φ3/8	Φ3/8	Φ1/2	Φ1/2	Φ1/2	Φ5/8	Φ5/8
	Liquid	inch	Φ1/4	Φ1/4	Φ1/4	Φ1/4	Φ1/4	Φ3/8	Φ3/8
Loading quantity	40'GP	—	702	702	557	557	557	441	441
	40'HQ	—	819	819	624	624	624	503	503

EXV Separated

Model			GMV-R28Zd/Na-K	GMV-R36Zd/Na-K	GMV-R50Zd/Na-K	GMV-R71Zd/Na-K	GMV-R90Zd/Na-K	GMV-R112Zd/Na-K	GMV-R125Zd/Na-K
Capacity	Cooling	kW	2.8	3.6	5.0	7.1	9.0	11.2	12.5
	Heating	kW	3.2	4.0	5.8	8.0	10.0	12.5	13.5
Power supply	PhV/Hz		1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Motor power input	W		10	10	40	50	85	180	180
	m ³ /h		550	600	700	1170	2100	2200	2300
Air flow volume	CFM		324	353	412	689	1236	1295	1354
	Sound pressure level	dB(A)	43	44	50	48	51	54	55
Dimension (WxDxH)	Outline	mm	840x238x695	840x238x695	840x238x695	1300x188x600	1590x238x695	1590x238x695	1590x238x695
	Package	mm	1035x295x805	1035x295x805	1035x295x805	1514x248x724	1814x330x930	1814x330x930	1814x330x930
Net weight/Gross weight	kg		28/37	28/37	28/37	34/38	44/53	54/63	56/65
Connecting pipe diameter	Gas	inch	Φ3/8	Φ1/2	Φ1/2	Φ5/8	Φ5/8	Φ5/8	Φ5/8
	Liquid	inch	Φ1/4	Φ1/4	Φ1/4	Φ3/8	Φ3/8	Φ3/8	Φ3/8
Loading quantity	40'GP	—	196	196	196	207	98	98	98
	40'HQ	—	224	224	224	230	98	98	98

EXV Integrated

Model			GMV-R28Zd/NaB-K	GMV-R36Zd/NaB-K	GMV-R50Zd/NaB-K	GMV-R71Zd/NaB-K
Capacity	Cooling	kW	2.8	3.6	5.0	7.1
	Heating	kW	3.2	4.0	5.8	8.0
Power supply	PhV/Hz		1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Motor power input	W		55	55	110	140
	m ³ /h		650	650	950	1400
Air flow volume	CFM		383	383	559	824
	Sound pressure level	dB(A)	40	40	45	49
Dimension (WxDxH)	Outline	mm	1220x700x225	1220x700x225	1220x700x225	1420x700x245
	Package	mm	1340x820x300	1340x820x300	1340x820x300	1545x825x330
Net weight/Gross weight	kg		40/50	40/50	40/50	52/61
Connecting pipe diameter	Gas	inch	Φ3/8	Φ1/2	Φ1/2	Φ5/8
	Liquid	inch	Φ1/4	Φ1/4	Φ1/4	Φ3/8
Loading quantity	40'GP	—	112	112	112	136
	40'HQ	—	137	137	137	166

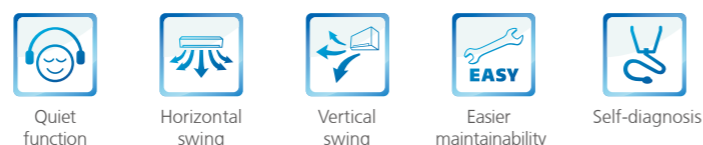
Model			GMV-R90Zd/NaB-K	GMV-R112Zd/NaB-K	GMV-R125Zd/NaB-K	GMV-R140Zd/NaB-K
Capacity	Cooling	kW	9.0	11.2	12.5	14
	Heating	kW	10.0	12.5	13.5	16
Power supply	PhV/Hz		1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Motor power input	W		180	250	250	250
	m ³ /h		1600	2000	2000	2000
Air flow volume	CFM		942	1177	1177	1177
	Sound pressure level	dB(A)	51	55	55	55
Dimension (WxDxH)	Outline	mm	1420x700x245	1700x700x245	1700x700x245	1700x700x245
	Package	mm	1545x825x330	1825x825x330	1825x825x330	1825x825x330
Net weight/Gross weight	kg		54/63	64/72	66/74	66/74
Connecting pipe diameter	Gas	inch	Φ5/8	Φ5/8	Φ5/8	Φ5/8
	Liquid	inch	Φ3/8	Φ3/8	Φ3/8	Φ3/8
Loading quantity	40'GP	—	136	225	225	225
	40'HQ	—	166	256	256	256

Console Indoor Unit



Model			GMV-R28C/Na-K	GMV-R36C/Na-K	GMV-R50C/Na-K
Capacity	Cooling	kW	2.8	3.6	5.0
	Heating	kW	3.2	4.0	5.5
Power supply		Ph/V/Hz	1/220-240/50	1/220-240/50	1/220-240/50
Motor power input		W	60	60	60
Air flow volume		m ³ /h	500-430/370/280	600-520/440/360	650-620/500/410
		CFM	294-253/218/165	353-306/259/212	383-365/294/241
Sound pressure level		dB(A)	38/33/26	40/37/32	46/41/35
Dimension (WxDxH)	Outline	mm	700x215x600	700x215x600	700x215x600
	Package	mm	788x283x697	788x283x697	788x283x697
Net weight/Gross weight		kg	16/19	16/19	16/19
Connecting pipe diameter	Gas	inch	Φ3/8	Φ3/8	Φ1/2
	Liquid	inch	Φ1/4	Φ1/4	Φ1/4
Loading quantity	40'GP	—	387	387	387
	40'HQ	—	433	433	433

Floor Standing Type Indoor Unit



Model			GMV-R71L/Na-K	GMV-R100L/Na-K	GMV-R140L/Na-K
Capacity	Cooling	kW	7	10	14
	Heating	kW	8	11	15
Power supply		Ph/V/Hz	1/220-240/50	1/220-240/50	1/220-240/50
Motor power input		W	160	185	200
Air flow volume		m ³ /h	1100	1600	1700
		CFM	655	952	1000
Sound pressure level		dB(A)	48/42	51/47	52/48
Dimension (WxDxH)	Outline	mm	502x316x1756	556x381x1896	556x381x1896
	Package	mm	633x450x1943	738x545x2083	738x545x2083
Net weight/Gross weight		kg	39/60	53/73	57/77
Connecting pipe diameter	Gas	inch	Φ5/8	Φ5/8	Φ5/8
	Liquid	inch	Φ3/8	Φ3/8	Φ3/8
Loading quantity	40'GP	—	95	67	67
	40'HQ	—	95	67	67

Branching Joint

For Indoor Units		Appearance		
Indoor model	Indoor unit total capacity X (kW)	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	$135 < X$			

For Outdoor Units		Appearance		
Model	Indoor unit total capacity X (kW)	High-pressure gas pipe	Low-pressure gas pipe	Liquid pipe
MLO1R	$22.4 \leq X \leq 96$			
MLO2R	$96 < X$			

GMV HR-II (Heat recovery series)



It is a kind of VRF system that adopt DC inverter compressor and the outdoor unit could be connected with several indoor units to realize independent cooling or heating control in different rooms.



Golden fin condenser	Inner groove copper	High efficiency	Intelligent defrosting	Precise temperature control	Quiet function	Modular operating*	Comprehensive protection	Wide voltage range
Wide operation range	Compact design	Easier maintainability	Centralized control	Long-distance monitoring				

- Advanced control functions.
- Better reliability.
- Compact outdoor unit.
- Greatly improved energy efficiency: Significantly greater efficiency is realized by the use of DC inverter hermetic scroll compressors with high pressure chamber design, improved DC inverter driving technology and large heat exchanger.
- Modular outdoor unit design: Various combination form 8HP to 64HP with 2HP increments. Max. capacity of outdoor units is 180kW (4 modules combination).
- Various combinations: Up to 110 sets of indoor units can be connected. 4 types and 56 models of indoor unit. Max. diversity is 135%.
- DC inverter scroll compressor.
- ECO-friendly R410A refrigerant.
- Flexible piping Design.

Max. piping length volume (meter)	
Total piping length	500m
Actual piping length	150m
Equivalent piping length	175m
Height difference between indoor units	15m
Height difference between outdoor unit and indoor unit (outdoor unit is located above the indoor unit)	50m
Height difference between indoor unit and outdoor unit (outdoor unit is located underneath the indoor unit)	40m
Piping length from first indoor branch to the farthest indoor unit	40m

GMV HR-II (Heat Recovery Series)

Item	Nominal operating condition (temperature)				Operating range (temperature)
	Outdoor condition		Indoor condition		Outdoor condition
	DB(°C)	WB(°C)	DB(°C)	WB(°C)	DB(°C)
Cooling	35	24	27	19	-10~48
Heating	7	6	20	15	-20~27
Cooling and Heating	—				-10~20

Model	Heat pump		GMV-Pdhm224W/Na-M	GMV-Pdhm280W/Na-M	GMV-Pdhm335W/Na-M	GMV-Pdhm400W/Na-M	GMV-Pdhm450W/Na-M
Capacity	Cooling	kW	22.4	28.0	33.5	40.0	45.0
	Heating	kW	25.0	31.5	37.5	45.0	50.0
EER		kW/kW	3.73	3.73	3.63	3.21	3.14
COP		kW/kW	4.09	4.09	4.00	4.02	3.60
ECOP	Cooling&heating	kW/kW	6.80	6.80	6.50	6.50	6.50
Power supply		PhV/Hz	3/380-415/50	3/380-415/50	3/380-415/50	3/380-415/50	3/380-415/50
Power input	Cooling	kW	5.50	7.5	9.23	12.4	14.32
	Heating	kW	5.80	7.7	9.38	11.2	13.90
Refrigerant charge volume		kg	12.0	12.0	14.0	16.0	16.0
Compressor configuration*			DCx1+Fx1	DCx1+Fx1	DCx1+Fx2	DCx1+Fx2	DCx1+Fx2
Sound pressure level		dB(A)	58	58	61	61	61
Dimension (WxDxH)	Outline	mm	930x770x1670	930x770x1670	1340x770x1670	1340x770x1670	1340x770x1670
	Package	mm	1010x850x1850	1010x850x1850	1420x850x1850	1420x850x1850	1420x850x1850
Net weight/Gross weight		kg	260/284	260/284	372/390	402/420	402/420
Connecting pipe diameter	Gas(High pressure)	inch	φ3/4	φ3/4	φ3/4	φ7/8	φ7/8
	Gas(Low pressure)	inch	φ7/8	φ7/8	φ7/8	φ9/8	φ9/8
	Liquid	inch	φ3/8	φ3/8	φ1/2	φ1/2	φ1/2
	Oil balance	inch	φ1/2	φ1/2	φ1/2	φ1/2	φ1/2
Max. equivalent connection pipe length		m	175	175	175	175	175
Maximum drive IDU NO.		unit	16	16	19	23	26
Loading quantity	40'GP	—	28	28	22	22	22
	40'HQ	—	38	38	27	27	27

DC: DC inverter scroll compressor F: Fixed frequency scroll compressor

Indoor Unit Lineup

Capacity Index (kw)		2.2	2.5	2.8	3.6	4.5	5.0	5.6	6.3	7.1	8.0	9.0	10.0	11.2	12.5	14.0	22.4	28.0
Duct	High ESP type	•		•	•	•	•	•		•		•		•		•		•
	Normal ESP type	•	•	•	•	•	•	•		•	•	•	•	•	•			
Cassette	4-way			•	•	•	•	•	•	•	•	•	•	•	•			
	Compact 4-way	•		•	•	•												
Wall mounted	EXV separated	•		•	•	•	•				•	•						
Floor ceiling	EXV separated			•	•		•			•		•						
														•	•			

Outdoor Units Lineup—Heat Recovery Series

MODEL		GMV-Pdhm224W/NaB-M (8HP)	GMV-Pdhm280W/NaB-M (10HP)	GMV-Pdhm335W/NaB-M (12HP)	GMV-Pdhm400W/NaB-M (14HP)	GMV-Pdhm450W/NaB-M (16HP)
	GMV-Pdhm224W/NaB-M (8HP)	●				
	GMV-Pdhm228W/NaB-M (10HP)		●			
	GMV-Pdhm335W/NaB-M (12HP)			●		
	GMV-Pdhm400W/NaB-M (14HP)				●	
	GMV-Pdhm450W/NaB-M (16HP)					●
	GMV-Pdhm504W2/NaB-M (18HP)	●	●			
	GMV-Pdhm560W2/NaB-M (20HP)		●●			
	GMV-Pdhm615W2/NaB-M (22HP)		●	●		
	GMV-Pdhm680W2/NaB-M (24HP)		●		●	
	GMV-Pdhm730W2/NaB-M (26HP)		●			●
	GMV-Pdhm800W2/NaB-M (28HP)				●●	
	GMV-Pdhm850W2/NaB-M (30HP)				●	●
	GMV-Pdhm900W2/NaB-M (32HP)					●●
	GMV-Pdhm960W3/NaB-M (34HP)		●●		●	
	GMV-Pdhm1010W3/NaB-M (36HP)		●●			●
	GMV-Pdhm1070W3/NaB-M (38HP)		●		●●	
	GMV-Pdhm1130W3/NaB-M (40HP)		●		●	●
	GMV-Pdhm1180W3/NaB-M (42HP)		●			●●
	GMV-Pdhm1250W3/NaB-M (44HP)			●		●●
	GMV-Pdhm1300W3/NaB-M (46HP)				●	●●
	GMV-Pdhm1350W3/NaB-M (48HP)					●●
	GMV-Pdhm1410W4/NaB-M (50HP)		●●		●	●
	GMV-Pdhm1460W4/NaB-M (52HP)		●●			●●
	GMV-Pdhm1515W4/NaB-M (54HP)		●	●		●●
	GMV-Pdhm1580W4/NaB-M (56HP)		●		●	●●
	GMV-Pdhm1630W4/NaB-M (58HP)		●			●●
	GMV-Pdhm1700W4/NaB-M (60HP)				●●	●●
	GMV-Pdhm1750W4/NaB-M (62HP)				●	●●
	GMV-Pdhm1800W4/NaB-M (64HP)					●●

Duct Type Indoor Unit



- Built-in drain pump
- Fresh air supply ventilation
- Quiet function
- Multi fan speed
- Compact design
- Easier maintainability
- Key-card control

Model	with drain water pump		GMV-Rh22PS/NaB-K	GMV-Rh28PS/NaB-K	GMV-Rh36PS/NaB-K	GMV-Rh45PS/NaB-K	GMV-Rh56PS/NaB-K
	without drain water pump		GMV-Rh22P/NaB-K	GMV-Rh28P/NaB-K	GMV-Rh36P/NaB-K	GMV-Rh45P/NaB-K	GMV-Rh56P/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	PhV/Hz		1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Motor power input	W		75	80	80	140	240
Air flow volume	m³/h		450	570	570	700	1000
	CFM		265	335	335	412	589
Standard ESP	Pa		20/50	20/50	20/50	20/50	30/60
Sound pressure level	dB(A)		37/35/33	39/37/35	39/37/35	40/38/36	44/42/40
Dimension (WxDxH)	Outline	mm	880x665x250	880x665x250	880x665x250	980x721x266	1155x736x300
	Package	mm	1145x745x305	1145x745x305	1145x745x305	1290x795x308	1415x785x360
Net weight/ Gross weight	with DWP*	kg	26/37	28/39	28/39	34/46	49/63
	without DWP*	kg	25/36	27/38	27/38	33/45	48/62
Connecting pipe diameter	Gas	inch	φ 3/8	φ 3/8	φ 1/2	φ 1/2	φ 5/8
	Liquid	inch	φ 1/4	φ 1/4	φ 1/4	φ 1/4	φ 3/8
Loading quantity	40'GP	—	198	198	198	198	108
	40'HQ	—	198	198	198	198	108

Model	with drain water pump		GMV-Rh71PS/NaB-K	GMV-Rh90PS/NaB-K	GMV-Rh112PS/NaB-K	GMV-Rh140PS/NaB-K	—	—
	without drain water pump		GMV-Rh71P/NaB-K	GMV-Rh90P/NaB-K	GMV-Rh112P/NaB-K	GMV-Rh140P/NaB-K	GMV-Rh224P/NaB-K	GMV-Rh280P/NaB-K
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	PhV/Hz		1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	3/380-415/50	3/380-415/50
Motor power input	W		240	360	360	500	1600	1600
Air flow volume	m³/h		1100	1700	1700	2000	4000	4800
	CFM		647	1000	1000	1177	2354	2825
Standard ESP	Pa		30/60	40/80	40/80	50/100	200	220
Sound pressure level	dB(A)		45/43/41	48/46/44	48/46/44	50/48/46	56	57
Dimension (WxDxH)	Outline	mm	1155x736x300	1425x736x300	1425x736x300	1425x736x300	1463x799x389	1628x869x454
	Package	mm	1415x785x360	1684x785x360	1684x785x360	1684x785x360	1695x880x470	1900x1025x580
Net weight/ Gross weight	with DWP*	kg	49/63	60/76	60/76	63/78	—	—
	without DWP*	kg	48/62	59/75	59/75	62/77	88/107	113/157
Connecting pipe diameter	Gas	inch	φ 5/8	φ 5/8	φ 5/8	φ 5/8	φ 7/8	φ 7/8
	Liquid	inch	φ 3/8	φ 3/8	φ 3/8	φ 3/8	φ 3/8	φ 3/8
Loading quantity	40'GP	—	108	84	84	84	70	48
	40'HQ	—	108	84	84	84	70	48

* DWP means drain water pump.

Model			GMV-Rh22P/Na-K	GMV-Rh25P/Na-K	GMV-Rh28P/Na-K	GMV-Rh32P/Na-K	GMV-Rh36P/Na-K	GMV-Rh40P/Na-K
Capacity	Cooling	kW	2.2	2.5	2.8	3.2	3.6	4.0
	Heating	kW	2.5	3.0	3.2	3.6	4.0	4.5
Power supply	PhV/Hz		1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Motor power input	W		54	54	55	55	55	91
Air flow volume	m³/h		450	450	570	570	570	700
	CFM		265	265	335	335	335	412
ESP	Pa		10	10	10	10	10	20
Sound pressure level	dB(A)		37/33	37/33	39/35	39/35	39/35	40/36
Dimension (WxDxH)	Outline	kg	875x680x220	875x680x220	875x680x220	875x680x220	875x680x220	980x736x266
	Package	kg	1165x710x275	1165x710x275	1165x710x275	1165x710x275	1165x710x275	1220x776x320
Net weight/Gross weight	kg		27/31	27/31	27/31	27/31	27/31	36/39
Connecting pipe diameter	Gas	inch	φ3/8	φ3/8	φ3/8	φ1/2	φ1/2	φ1/2
	Liquid	inch	φ1/4	φ1/4	φ1/4	φ1/4	φ1/4	φ1/4
Loading quantity	40'GP	—	180	180	180	180	180	108
	40'HQ	—	180	180	180	180	180	108

Model			GMV-Rh45P/Na-K	GMV-Rh50P/Na-K	GMV-Rh56P/Na-K	GMV-Rh63P/Na-K	GMV-Rh71P/Na-K	GMV-Rh80P/Na-K
Capacity	Cooling	kW	4.5	5.0	5.6	6.3	7.1	8.0
	Heating	kW	5.0	5.8	6.3	7.0	8.0	8.8
Power supply	PhV/Hz		1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Motor power input	W		91	91	157	157	157	157
Air flow volume	m³/h		700	700	1000	1000	1100	1100
	CFM		412	412	589	589	647	647
ESP	Pa		20	20	25	25	25	25
Sound pressure level	dB(A)		40/36	40/36	41/37	41/37	42/38	42/38
Dimension (WxDxH)	Outline	kg	980x736x266	980x736x266	1159x736x260	1159x736x260	1159x736x260	1159x736x260
	Package	kg	1220x776x320	1220x776x320	1398x785x320	1398x785x320	1398x785x320	1398x785x320
Net weight/Gross weight	kg		36/39	36/39	37/41	37/41	37/41	37/41
Connecting pipe diameter	Gas	inch	φ1/2	φ1/2	φ5/8	φ5/8	φ5/8	φ5/8
	Liquid	inch	φ1/4	φ1/4	φ3/8	φ3/8	φ3/8	φ3/8
Loading quantity	40'GP	—	108	108	96	96	96	96
	40'HQ	—	108	108	96	96	96	96

Model			GMV-Rh90P/Na-K	GMV-Rh100P/Na-K	GMV-Rh112P/Na-K	GMV-Rh125P/Na-K
Capacity	Cooling	kW	9.0	10.0	11.2	12.5
	Heating	kW	10.0	11.0	12.5	13.5
Power supply	PhV/Hz		1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Motor power input	W		270	270	270	270
Air flow volume	m³/h		1700	1700	1700	1700
	CFM		1000	1000	1000	1000
ESP	Pa		30	30	30	30
Sound pressure level	dB(A)		44/40	44/40	44/40	44/40
Dimension (WxDxH)	Outline	kg	1385x736x260	1385x736x260	1385x736x260	1385x736x260
	Package	kg	1682x796x310	1682x796x310	1682x796x310	1682x796x310
Net weight/Gross weight	kg		49/60	49/60	49/60	49/60
Connecting pipe diameter	Gas	inch	φ5/8	φ5/8	φ5/8	φ5/8
	Liquid	inch	φ3/8	φ3/8	φ3/8	φ3/8
Loading quantity	40'GP	—	90	90	90	90
	40'HQ	—	90	90	90	90

Cassette Type Indoor Unit



Built-in drain pump



Washable filter



Quiet function



Compact design



Easier maintainability

4-way Cassette

Model			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	PhV/Hz		1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Motor power input	W		65	65	65	65	83	83
Air flow volume	m³/h		680	680	680	680	1180	1180
	CFM		400	400	400	400	694	694
Sound pressure level	dB(A)		37/35/33	37/35/33	37/35/33	37/35/33	39/37/35	39/37/35
Main body	Dimension (WxDxH)	Outline	mm	840x840x190	840x840x190	840x840x190	840x840x190	840x840x240
	Package	mm	1100x960x257	1100x960x257	1100x960x257	1100x960x257	1100x960x310	1100x960x310
Panel	Dimension (WxDxH)	Outline	mm	950x950x60	950x950x60	950x950x60	950x950x60	950x950x60
	Package	mm	1040x1025x115	1040x1025x115	1040x1025x115	1040x1025x115	1040x1025x115	1040x1025x115
Connecting pipe diameter	Gas	inch	φ3/8	φ3/8	φ1/2	φ1/2	φ5/8	φ5/8
	Liquid	inch	φ1/4	φ1/4	φ1/4	φ1/4	φ3/8	φ3/8
Loading quantity	40'GP	—	146	146	146	146	125	125
	40'HQ	—	154	154	154	154	140	140

Model			GMV-Rh71T/Na-K	GMV-Rh80T/Na-K	GMV-Rh90T/Na-K	GMV-Rh100T/Na-K	GMV-Rh112T/Na-K	GMV-Rh125T/Na-K
Capacity	Cooling	kW	7.1	8.0	9.0	10.0	11.2	12.5
	Heating	kW	8.0	8.8	10.0	11.0	12.5	13.5
Power supply	PhV/Hz		1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Motor power input	W		83	83	133	133	133	133
Air flow volume	m³/h		1180	1180	1860	1860	1860	1860
	CFM		694	694	1095	1095	1095	1095
Sound pressure level	dB(A)		39/37/35	39/37/35	40/38/36	40/38/36	40/38/36	40/38/36
Main body	Dimension (WxDxH)	Outline	mm	840x840x240	840x840x240	840x840x320	840x840x320	840x840x320
	Package	mm	1100x960x310	1100x960x310	1100x960x394	1100x960x394	1100x960x394	1100x960x394
Panel	Dimension (WxDxH)	Outline	mm	950x950x60	950x950x60	950x950x60	950x950x60	950x950x60
	Package	mm	1040x1025x115	1040x1025x115	1040x1025x115	1040x1025x115	1040x1025x115	1040x1025x115
Connecting pipe diameter	Gas	inch	φ5/8	φ5/8	φ5/8	φ5/8	φ5/8	φ5/8
	Liquid	inch	φ3/8	φ3/8	φ3/8	φ3/8	φ3/8	φ3/8
Loading quantity	40'GP	—	125	125	106	106	106	106
	40'HQ	—	140	140	116	116	116	116

Compact 4-way Cassette

Model			GMV-Rh22T/NaA-K	GMV-Rh28T/NaA-K	GMV-Rh36T/NaA-K	GMV-Rh45T/NaA-K
Capacity	Cooling	kW	2.2	2.8	3.6	4.5
	Heating	kW	2.5	3.2	4.0	5.0
Power supply	PhV/Hz		1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Motor power input	W		50	50	50	50
Air flow volume	m³/h		600	600	600	600
	CFM		353	353	353	353
Sound pressure level	dB(A)		47/41	47/41	47/41	47/41
Main body	Dimension (WxDxH)	Outline	mm	570x570x230	570x570x230	570x570x230
	Package	mm	870x688x325	870x688x325	870x688x325	870x688x325
Panel	Dimension (WxDxH)	Outline	mm	650x650x50	650x650x50	650x650x50
	Package	mm	733x673x117	733x673x117	733x673x117	733x673x117
Connecting pipe diameter	Gas	inch	φ3/8	φ3/8	φ1/2	φ1/2
	Liquid	inch	φ1/4	φ1/4	φ1/4	φ1/4
Loading quantity	40'GP	—	301	301	301	301
	40'HQ	—	344	344	344	344

Wall Mounted Type Indoor Unit



- Built-in drain pump
- Washable filter
- Auto clean
- Vertical swing
- Anti-cold function
- Quiet function
- Compact design
- Easier maintainability

Model			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	5
Power supply	Ph/V/Hz		1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Motor power input	W		32	32	48	48
Air flow volume	m ³ /h		360	360	500	500
	CFM		212	212	294	294
Sound pressure level	dB(A)		37/28	37/28	43/32	43/32
Dimension (WxDxH)	Outline	mm	830x189x285	770x190x250	830x189x285	830x189x285
	Package	mm	860x272x478	860x272x478	905x265x533	905x265x533
Net weight/Gross weight	kg		8.5/15.6	8.5/15.6	11/18.5	11/18.5
Connecting pipe diameter	Gas	inch	φ3/8	φ3/8	φ1/2	φ1/2
	Liquid	inch	φ1/4	φ1/4	φ1/4	φ1/4
Loading quantity	40'GP	—	270	270	440	440
	40'HQ	—	570	570	440	440

Model			GMV-Rh50G/Na-K	GMV-Rh56G/Na-K	GMV-Rh71G/Na-K	GMV-Rh80G/Na-K
Capacity	Cooling	kW	5	5.6	7.1	8
	Heating	kW	5.8	6.3	8	9
Power supply	Ph/V/Hz		1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Motor power input	W		56	58	63	63
Air flow volume	m ³ /h		700	750	1200	1200
	CFM		412	441	706	706
Sound pressure level	dB(A)		45/40	45/40	49/42	49/42
Dimension (WxDxH)	Outline	mm	1020x228x310	1020x228x310	1178x227x326	1178x227x326
	Package	mm	1080x390x420	1080x390x420	1415x333x475	1415x333x475
Net weight/Gross weight	kg		14.7/23.6	14.7/23.6	18.2/27.3	18.2/27.3
Connecting pipe diameter	Gas	inch	φ5/8	φ5/8	φ5/8	φ5/8
	Liquid	inch	φ3/8	φ3/8	φ3/8	φ3/8
Loading quantity	40'GP	—	315	315	208	208
	40'HQ	—	378	378	260	260

Floor Ceiling Type Indoor Unit



- Built-in drain pump
- Washable filter
- Quiet function
- Vertical swing
- Vertical swing
- Compact design
- Easier maintainability

Model			GMV-Rh28Zd/Na-K	GMV-Rh36Zd/Na-K	GMV-Rh50Zd/Na-K	GMV-Rh71Zd/Na-K
Capacity	Cooling	kW	2.8	3.6	5.0	7.1
	Heating	kW	3.2	4.0	5.8	8.0
Power supply	Ph/V/Hz		1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Motor power input	W		10	10	40	100
Air flow volume	m ³ /h		550	600	700	1170
	CFM		324	353	412	689
Sound pressure level	dB(A)		43	44	50	48
Dimension (WxDxH)	Outline	mm	840x238x695	840x238x695	840x238x695	1300x188x600
	Package	mm	1035x295x805	1035x295x805	1035x295x805	1514x248x724
Net weight/Gross weight	kg		28/37	28/37	28/37	34/38
Connecting pipe diameter	Gas	inch	φ3/8	φ1/2	φ1/2	φ5/8
	Liquid	inch	φ1/4	φ1/4	φ1/4	φ3/8
Loading quantity	40'GP	—	196	196	196	207
	40'HQ	—	224	224	224	230

Model			GMV-Rh90Zd/Na-K	GMV-Rh112Zd/Na-K	GMV-Rh125Zd/Na-K
Capacity	Cooling	kW	9.0	11.2	12.5
	Heating	kW	10.0	12.5	13.5
Power supply	Ph/V/Hz		1/220-240/50	1/220-240/50	1/220-240/50
Motor power input	W		150	180	180
Air flow volume	m ³ /h		2100	2200	2300
	CFM		1236	1295	1354
Sound pressure level	dB(A)		51	54	55
Dimension (WxDxH)	Outline	mm	1590x238x695	1590x238x695	1590x238x695
	Package	mm	1814x330x930	1814x330x930	1814x330x930
Net weight/Gross weight	kg		44/53	/	/
Connecting pipe diameter	Gas	inch	φ5/8	φ5/8	φ5/8
	Liquid	inch	φ3/8	φ3/8	φ3/8
Loading quantity	40'GP	—	98	98	98
	40'HQ	—	98	98	98

Branching Joint

For Indoor Units				
Indoor model	Indoor unit total capacity X (kW)	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	$135 < X$			

For Outdoor Units				
Model	Indoor unit total capacity X (kW)	Appearance		
		High-pressure gas pipe	Low-pressure gas pipe	Liquid pipe
MLO1R	$22.4 \leq X \leq 96$			
MLO2R	$96 < X$			

Air Processing Unit



It is a kind of VRF system that adopt DC inverter compressor and the outdoor unit could be connected with several 100% fresh air inlet ducted type indoor units to realize independent cooling (heating) control in different rooms.



- Inner groove copper
- Washable filter
- High efficiency
- Intelligent defrosting
- Precise temperature control
- Quiet function
- Self-diagnosis
- Comprehensive protection
- Compact design
- Easier maintainability
- Centralized control
- Long-distance monitoring



Item	Nominal operating condition (temperature)				Operation range (temperature)
	Outdoor condition		Indoor condition		Outdoor condition
	DB(°C)	WB(°C)	DB(°C)	WB(°C)	DB(°C)
Cooling	35	24	27	19	20/15~43/35
Hot water	7	6	20	15	-5/-8~14/11

Outdoor Unit

Model	Heat pump		GMV-Pdm224W/NaX-M	GMV-Pdm280W/NaX-M	GMV-Pdm450W/NaX-M
Capacity	Cooling	kW	22.4	28.0	45.0
	Heating	kW	16.0	20.0	32.0
IPLV	Cooling	W/W	4.15	4.15	4.15
	Power supply	Ph/V/Hz	3/380/50		
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	
Compressor configuration*	—	DC×1+F×1	DC×1+F×1	DC×1+F×2	
Sound pressure level	dB(A)	58	58	61	
Dimension (W×D×H)	Outline	mm	930×770×1670	930×770×1670	1340×770×1670
	Package	mm	1010×850×1850	1010×850×1850	1420×850×1850
Net weight/Gross weight	kg	255/275	255/275	370/400	
Connecting pipe diameter	Gas	inch	φ7/8	φ7/8	φ9/8
	Liquid	inch	φ3/8	φ3/8	φ1/2
	Oil balance	inch	φ1/2	φ1/2	φ1/2
Max. equivalent connection pipe length	m	70	70	70	
Maximum drive IDU NO.	unit	14	16	16	
Loading quantity	40'GP	—	24	24	16
	40'HQ	—	24	24	16

DC: DC inverter scroll compressor F: Fixed frequency Scroll compressor

Indoor Unit

Model	Heat pump		GMV-R140P/Na(X1.2)-K	GMV-R224P/Na(X2.0)-M	GMV-R280P/Na(X2.5)-M	GMV-R280P/Na(X3.0)-M
Capacity	Cooling	kW	14.0	22.4	28.0	28.0
	Heating	kW	10.0	16.0	20.0	20.0
Power supply		PhV/Hz	1/220-240/50	3/380/50	3/380/50	3/380/50
Motor power input		W	500	1100	1100	1100
Air flow volume	Cooling	m ³ /h	1200	2000	2500	3000
	Heating	CFM	706	1177	1471	1766
ESP		Pa	150	50-200	50-200	50-200
Sound pressure level		dB(A)	42	47	48	51
Dimension (WxDxH)	Outline	mm	1463/756/300	1500/1000/500	1500/1000/500	1500/1000/500
	Package	mm	1514/785/360	1840/1200/673	1840/1200/673	1840/1200/673
Net weight/Gross weight		kg	63.5/73.0	130/140	150/160	150/160
Connecting pipe diameter	Gas	inch	φ5/8	φ7/8	φ7/8	φ7/8
	Liquid	inch	φ3/8	φ3/8	φ3/8	φ3/8
Loading quantity	40'GP	—	84	26	26	26
	40'HQ	—	84	26	26	26

Model	Heat pump		GMV-R450P/Na(X4.0)-M	GMV-R560P/Na(X5.0)-M	GMV-R560P/Na(X6.0)-M
Capacity	Cooling	kW	45.0	56.0	56.0
	Heating	kW	32.0	39.0	39.0
Power supply		PhV/Hz	3/380/50	3/380/50	3/380/50
Motor power input		W	1500	2200	2200
Air flow volume	Cooling	m ³ /h	4000	5000	5000
	Heating	CFM	2354	2942	2942
ESP		Pa	50-200	50-200	50-200
Sound pressure level		dB(A)	52	54	54
Dimension (WxDxH)	Outline	mm	1700/1100/650	1700/1100/650	1700/1100/650
	Package	mm	1890/1460/835	1890/1460/835	1890/1460/835
Net weight/Gross weight		kg	190/220	215/265	215/265
Connecting pipe diameter	Gas	inch	φ9/8	φ9/8	φ9/8
	Liquid	inch	φ1/2	φ1/2	φ1/2
Loading quantity	40'GP	—	14	14	14
	40'HQ	—	21	21	21

Control System Lineup

Wireless remote controller	Wired remote controller		Long-distance monitoring software	BMS accessories		
			Gree AC Eudemon 2009*	Communication module (modbus)	Communication module (modbus)	GMV BACet gateway (BACnet)
Y512	Z6E351	JS02 (Receiver)	FE30-00/A (M)	ME30-00/E2	ME30-24/E2 (M)	MG30-24/D1 (B)
●	●	●	●	●	●	●
Centralized controller			Other modules			
Group controller (mini centralized controller)	Centralized controller (modbus)*	Smart zone controller	Key-card control board	Optoelectronic isolated converter	Optoelectronic isolated signal multiplier	
ZJA011	CE51-24/E (M)	CE50-24/E	MK03	RS232-RS422V485	RS-422V485	
●	●	●	●	●	●	

Note: ● means standard, ● means optional.

* If centralized controller CE51-24/E(M) or long-distance monitoring software Gree Eudemon 2009 is selected, the communication module ME30-00/E2 shall be selected also. The quantity of the module should be confirmed according to the quantity of the outdoor unit.

Energy Recovery Ventilation (ERV)

It is a kind of ventilation system that could recover the total heat of indoor air to save energy and it is widely used in residential or commercial building.



Inner groove copper



Intelligent defrosting



Quiet function



Compact design



Easier maintainability



Weekly timer



Centralized control























Long-distance monitoring

- 7 models in a range of 350~3000m³/h fit for different spaces and reduce the waste of power.
- Filter and heat exchange core can be easily take out from the access for cleaning.
- Internal air filter keeps the fresh air introduced into room pure and dustless.
- With antibacterial and anti-mildew materials, the heat exchange core is suiting for healthy.
- Unique by-pass mode can reduce power consumption of fan motor to prolong lifetime of heat exchanger core.
- Longer piping between indoor unit and outdoor unit: Maximum piping length is 50m and maximum high difference is 30m.

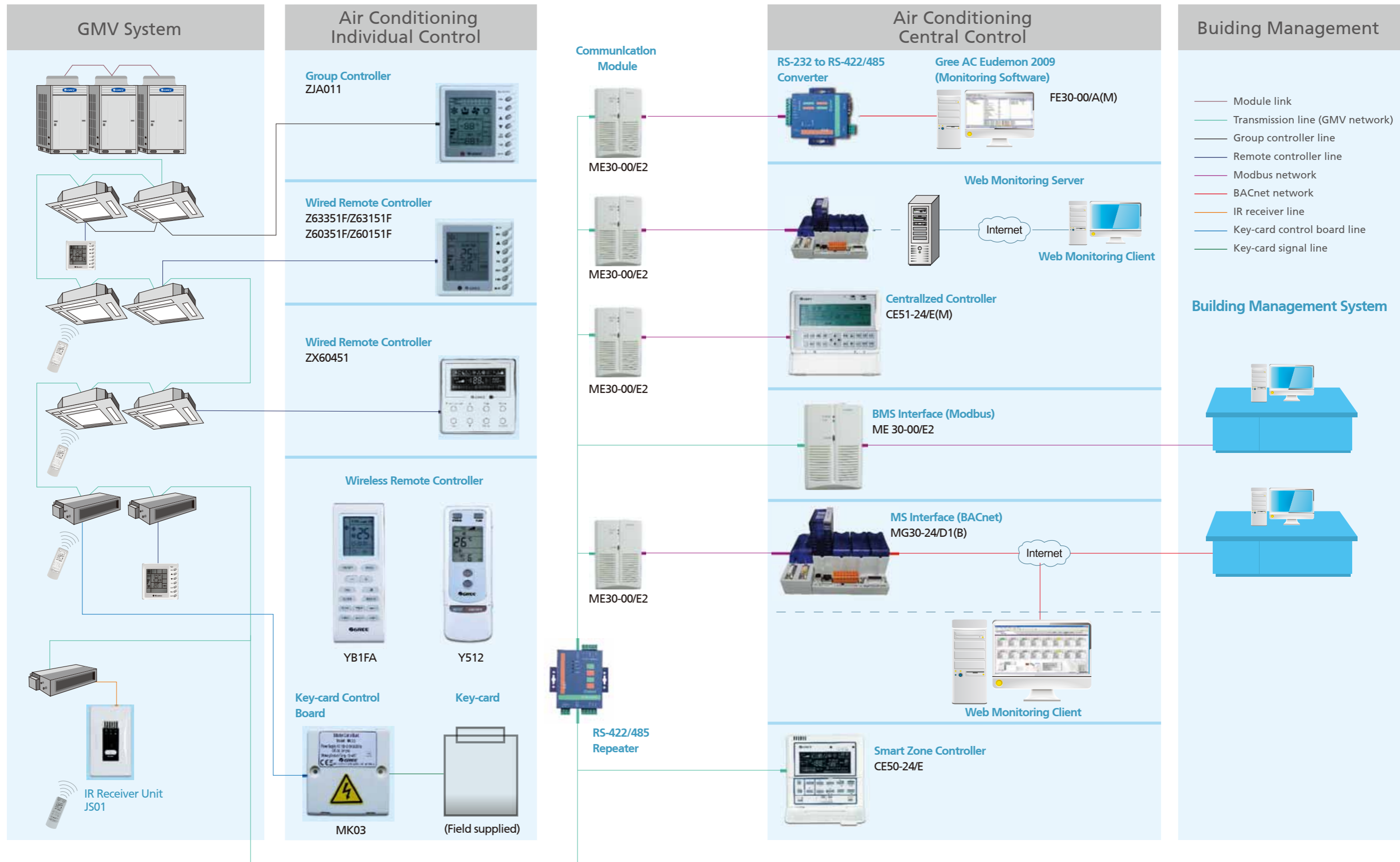


Model			FHBQ-D3.5-K	FHBQ-D5-K	FHBQ-D8-K	FHBQ-D10-K	FHBQ-D15-M	FHBQ-D20-M	FHBQ-D30-M
Air flow Volume	H/M/L	m ³ /h	360/260/210	500/380/300	800/600/480	1000/750/600	1500	2000	3000
ESP	H/M/L	Pa	100/80/60	100/80/60	110/85/65	110/85/65	150	150	220
Temperature exchange efficiency	H/M/L	%	71/73/75	68/70/72	70/72/74	75/77/79	73	71	70
	Heating	%	65/67/68	62/64/65	63/65/67	66/68/70	65	62	62
Enthalpy exchange efficiency (H/M/L)	Heating	%	61/63/65	57/59/61	60/62/64	62/64/65	60	58	58
	Cooling	%	61/63/65	57/59/61	60/62/64	62/64/65	60	58	58
Power supply		PhV/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	3/380-415/50	3/380-415/50	3/380-415/50
Power input		W	165	262	400	440	600	950	2800
Power input		dB(A)	37	39	45	46	48	50	54
		mm	800x879x306	800x879x306	832x1016x380	832x1016x380	1210x1215x452	1210x1215x452	1340x1550x572
Dimension (WxDxH)	Package	mm	1050x1165x315	1050x1165x315	1087x1320x400	1087x1320x400	1550x1540x470	1550x1540x470	1710x1610x700
Net weight		kg	45	45	57	57	100	100	240
Gross weight		kg	53	53	66.5	66.5	115	115	280
Loading quantity	40'GP	—	147	147	85	59	37	37	24
	40'HQ	—	168	168	104	67	44	44	24
Standard wired remote controller			Z5N15	Z5N15	Z5N15	Z5N15	Z5N15	Z5N15	—

Control System Lineup

Control system		Product series		Duct type	Cassette type	Wall-mounted type	Floor ceiling type		Console type	Floor standing type	Heat recovery series				ERV
											Duct type	4-way cassette type	Floor ceiling type	Wall-mounted type	
Wireless remote controller	Y512		●	●	●	●		●	●	●	●	●	●		
	YB1FA				●			●					●		
	Z60351F (Heat/Cool)		●								●				
Wired remote controller	Z60151F (Cool)		●								●				
	Z63351F (Heat/Cool)			●	●	●		●	●		●	●	●		
	Z63151F (Cool)			●	●	●			●		●	●	●		
	ZX60451		●	●	●	●		●	●		●	●	●		
	JS02 (Receiver)		●								●				
	Z5N151													●	
Long-distance monitoring software	Gree AC Eudemon 2009*	FE30-00/A(M)		●	●	●	●		●	●	●	●	●	●	
BMS accessories	Communication module (modbus)	ME30-00/E2		●	●	●	●		●	●	●	●	●		
	Communication module (modbus)	ME30-24/E2(M)		●	●	●	●		●	●	●	●	●		
	GMV BACnet gateway (BACnet)	MG30-24/D1(B)		●	●	●	●		●	●	●	●	●		
	Interface of the main board	BMS												●	
Centralized controller	Group controller (mini centralized controller)	ZJA011		●	●	●	●		●	●	●	●	●		
	Centralized controller(modbus)*	CE51-24/E(M)		●	●	●	●		●	●	●	●	●		
	Smart zone controller	CE50-24/E		●	●	●	●		●	●	●	●	●		
Other modules	Key-card control board	MK03		●	●	●	●		●	●	●	●	●		
	Optoelectronic isolated converter	RS232-RS422/485		●	●	●	●		●	●	●	●	●	●	
	Optoelectronic isolated signal multiplier	RS-422/485		●	●	●	●		●	●	●	●	●	●	

Note:
 ● means standard, ● means optional.
 * If long-distance monitoring software Gree Eudemon 2009 is selected, the communication module ME30-17/E2(M) shall be selected also.
 The quantity of the module should be confirmed according to the quantity of the outdoor unit.



Note: Control network sketch is for reference only, please refer to the equipment manuals for actual cable connection method.

CHILLER

MINI CHILLER

MODULAR AIR-COOLED SCROLL CHILLER

MODULAR AIR-COOLED SCREW CHILLER

WATER-COOLED SCREW CHILLER

CENTRIFUGAL CHILLER

CONTROL SYSTEM LINEUP



Mini Chiller

It is a kind of small-sized air-cooled chiller that can be connected to all sorts of fan coil unit to realize cooling/heating for hotel, villa, apartment, office, etc.

Split type



Integral type



Inner groove copper



Self-diagnosis



Comprehensive protection



Modular structure*



Long-distance monitoring*



- Unique wired control of chiller, realize general control and individual control.
- Low start-up current thanks to power delay control design.
- Running condition real-time display.
- The performance will not be effected by seasonal wind or installation place thanks to up-inclined air outlet design (for the unit of 19kw or above).
- Double anti-freezing control, makes the system safer and more reliable.
- Maximum 16 units can be freely modularized to reach a total capacity of 720kw*.

*Only applicable for the modular model HLR35SM/NaA-M and HLR45SM/NaA-M.



Item	Water side (water temperature)				Air side (outdoor temperature)		
	Nominal operating condition		Operating range		Nominal operating condition		Operating range
	Inlet(°C)	Outlet(°C)	Outlet(°C)	I/O difference(°C)	DB(°C)	WB(°C)	DB(°C)
Cooling	12	7	7~12	3~8	35	—	16~43
Heating	40	45	40~50	3~8	7	6	-15~28

Split type

Model	Heat 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/COP	W/W		2.10/2.70	2.20/2.70	2.20/2.70	2.50/3.10	
Power supply	Ph/V/Hz		3/380-415/50	3/380-415/50	3/380-415/50	3/380-415/50	
Power input	Cooling	kW	3.5	4.4	5.7	5.7	
	Heating	kW	3.3	4.4	4.8	5.3	
Compressor	Type		Scroll	Scroll	Scroll	Scroll	
	Quantity		1	1	1	1	
Refrigerant charge volume	kg		3.10	3.55	4.50	5.50	
Water flow volume	l/s		0.38	0.48	0.59	0.72	
	GPM		5.00	6.30	7.79	9.50	
Build-in chilled water pump	Pump power input	kW	0.55	0.55	0.55	0.55	
	Delivery lift	m	18	18	18	18	
Build-in expansion vessel volume	L		5	5	5	5	
Chilled water outlet/inlet diameter	inch		1" Female BSP	1" Female BSP	1" Female BSP	1" Female BSP	
Indoor unit	Sound pressure level	dB(A)	38	38	38	38	
		mm	1100x450x288	1100x450x288	1100x450x288	1100x450x288	
	Dimension (WxDxH)	Outline	mm	1100x450x288	1100x450x288	1100x450x288	1100x450x288
		Packaged	mm	1285x682x385	1285x682x385	1285x682x385	1285x682x385
Net weight/Gross weight	kg	84/96	84/96	84/96	84/96		
Outdoor unit	Sound pressure level	dB(A)	60	60	60	60	
		mm	950x412x840	950x412x1250	950x412x1250	950x412x1250	
	Dimension (WxDxH)	Outline	mm	950x412x840	950x412x1250	950x412x1250	950x412x1250
		Packaged	mm	1110x450x985	1111x450x1385	1110x450x1385	1110x450x1385
Net weight/Gross weight	kg	90/100	112/123	115/126	123/134		
Outer diameter of connection pipe	Liquid pipe	inch	φ1/2	φ1/2	φ1/2	φ1/2	
	Gas pipe	inch	φ3/4	φ3/4	φ3/4	φ3/4	
Loading quantity	40'GP/40'HQ	set	52/52	63/64	63/64	63/64	

Note:
The specification is tested under the connection pipe of 7.5 meters.

Integral type

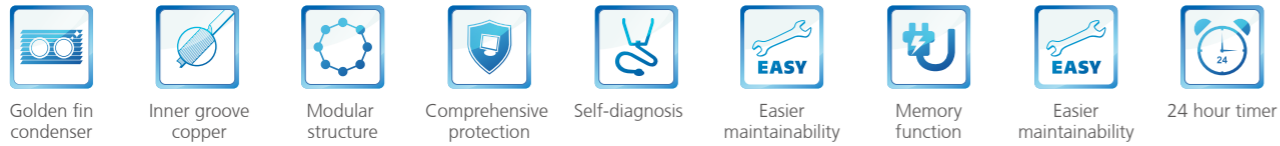
Model	Heat pump		HLR225Na-M	HLR255Na-M	HLR355Na-M	HLR455Na-M	HLR355M/NaA-M	HLR455M/NaA-M
Capacity	Cooling	kW	21.5	22.8	31	42	31	42
	Heating	kW	25	25	37.5	49	36	49
EER/COP	W/W		2.50/2.90	2.60/2.80	2.60/3.00	2.30/2.80	2.60/2.86	2.30/2.80
Power supply	Ph/V/Hz		3/380-415/50	3/380-415/50	3/380-415/50	3/380-415/50	3/380-415/50	3/380-415/50
Power input	Cooling	kW	8.6	8.8	11.9	18.3	11.9	18.3
	Heating	kW	8.6	8.9	12.5	17.5	12.5	17.5
Compressor	Type		Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
	Quantity		2	2	2	2	2	2
Refrigerant charge volume	kg		3.6x2	4.8x2	6.5x2	7.3x2	6.5x2	7.3x2
Water flow volume	l/s		1.05	1.2	1.4	2.2	1.4	2.2
	GPM		13.9	15.8	22.0	29.0	22.0	29.0
Build-in chilled water pump	Pump power input	kW	0.75	0.75	1.50	1.50	—	—
	Delivery lift	m	22	24	25	27	—	—
Build-in expansion vessel volume	L		8	8	8	8	—	—
Chilled water outlet/inlet diameter	inch		1" Female BSP	1" Female BSP	1-1/2" Female BSP	1-1/2" Female BSP	1-1/2" Female BSP	1-1/2" Female BSP
Sound pressure level	dB(A)		66	66	68	68	68	68
Dimension (WxDxH)	Outline	mm	1460x530x1850	1460x530x1850	1750x800x1760	1750x800x1760	1750x800x1760	1750x800x1760
	Packaged	mm	1540x710x2100	1540x710x2100	1910x960x1970	1910x960x1970	1910x960x1970	1910x960x1970
Net weight/Gross weight	kg	370/380	390/400	680/690	755/765	600/610	755/765	
Loading quantity	40'GP/40'HQ	set	25/25	25/25	12/12	12/12	12/12	12/12



Modular Air-cooled Scroll Chiller

It is a kind of air-cooled scroll chiller that can be connected to all sorts of fan coil unit to realize cooling/heating for civil or industrial buildings.

C Series



- Running condition real-time display.
- Low start-up current thanks to power delay control design.
- Unique compressor alternation operation technology largely prolong the lifespan of compressor.
- Double-flow design makes a higher heat exchange efficiency.
- Special top cover design: make a better cooling capacity of 5% improvement and higher heat exchanging efficiency of 3% improvement.
- Main module patent: any unit can be set as main module via wired controller.
- Up to 16 units (65/80kw) or 8 units (130/160kw) can be integrated freely to get a max capacity of 1280kw thanks to modular design.
- Auto anti-freezing function under heating mode when the unit is switched off.



Item	Water side (water temperature)				Air side (outdoor temperature)		
	Nominal operating condition		Operating range		Nominal operating condition		Operating range
	Inlet(°C)	Outlet(°C)	Outlet(°C)	I/O difference(°C)	DB(°C)	WB(°C)	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
	Heat pump		LSQWRF65MG/NaC-M	LSQWRF80MG/NaC-M	LSQWRF130MG/NaC-M	LSQWRF160MG/NaC-M
Capacity	Cooling	kW	62.5	71.5	125	143
		TR	17.8	20.3	35.5	40.7
	Heating	kW	70	80	140	160
		TR	19.9	22.7	39.8	45.5
Capacity steps	%	0-50-100	0-50-100	0-25-50-75-100	0-25-50-75-100	
EER/COP	W/W	2.52/2.90	2.68/3.00	2.52/2.91	2.68/3.00	
Power supply	Ph/V/Hz	3/380-415/50	3/380-415/50	3/380-415/50	3/380-415/50	
Power input	Cooling	kW	24.8	26.7	49.6	53.4
	Heating	kW	24.1	26.7	48.1	53.3
Compressor	Type	—	Hermetic scroll	Hermetic scroll	Hermetic scroll	Hermetic scroll
	Starting mode	—	Direct starting	Direct starting	Direct starting	Direct starting
	Quantity	—	2	2	4	4
	Type	—	High-efficient shell and tube heat exchanger			
Water side heat exchanger	Water flow volume	l/s	3.0	3.4	6.0	6.8
		GPM	47.6	54.2	94.7	108.3
	Pressure drop	kPa	30	35	30	35
		ft.WG	9.8	11.5	9.8	11.5
Connection pipe	—	DN50	DN50	DN50	DN50	
Air side heat exchanger	Type	—	High-efficient fin tube type heat exchanger			
	Fan type and quantity	—	axialx3	axialx3	axialx6	axialx6
	Total fan air flow	l/s	0.8x10 ⁴	0.9x10 ⁴	1.7x10 ⁴	1.8x10 ⁴
		CFM	1.8x10 ⁴	1.9x10 ⁴	3.5x10 ⁴	3.8x10 ⁴
Total fan motor power	kW	0.7x3	0.7x3	0.7x6	0.7x6	
Sound pressure level	dB(A)	67	68	69	70	
Dimension	Outline(WxDxH)	mm	1100x2265x2214	1100x2265x2214	2200x2265x2214	2200x2265x2214
	Package(WxDxH)	mm	1130x2295x2214	1130x2295x2214	2230x2295x2214	2230x2295x2214
Net/Gross/Operating weight	Cooling only	kg	900/910/990	1000/1010/1100	1780/1800/1958	1980/2000/2178
	Heat pump	kg	950/960/1045	1050/1060/1155	1880/1900/2068	2080/2100/2288
Loading quantity	40'GP/40'HQ	set	10/10	10/10	5/5	5/5

Note:
The specification is tested under the connection pipe of 7.5 meters.

Modular Air-cooled Screw Chiller

R134a

It is a kind of air-cooled screw chiller that can be connected to all sorts of fan coil unit to realize cooling/heating for civil or industrial buildings.



- Golden fin condenser
- Inner groove copper
- Modular structure
- Comprehensive protection
- Self-diagnosis
- Long-distance monitoring
- Memory function
- 24 hour timer

- Running condition real-time display.
- Low start-up current thanks to power delay control design.
- Multistep adjustment plus modular design makes a better unloading capacity that ensures the stability of water temperature. Double-flow design makes a higher heat exchange efficiency.
- Double spray cooling design to both compressor chamber and motor, ensure the reliability operation of motor and discharging bearing.
- Special oil return pipe at the bottom of the shell and tube, to prevent the oil storage and compressor oil lack.
- Well radiating and waterproof of electric control box thanks to special waterproof design.
- Double-flow design makes a higher heat exchange efficiency.
- Main module patent: any unit can be set as main module via wired controller.
- Up to 8 units can be integrated freely to get a max. capacity of 3440kw thanks to modular design.
- Auto anti-freezing function under heating mode when the unit is switched off.



Item	Water side (water temperature)				Air side (outdoor temperature)		
	Nominal operating condition		Operating range		Nominal operating condition		Operating range
	Water flow volume [m³/(h·kw)]	Outlet(°C)	Outlet(°C)	I/O difference(°C)	DB(°C)	WB(°C)	DB(°C)
Cooling	0.172	7	5~15	2.5~8	35	—	18~52

Model	Cooling only		LSBLGF230MT3/Nb-M	LSBLGF350MT3/Nb-M	LSBLGF430MT3/Nb-M
Capacity		kW	230	350	430
		TR	65	100	122
Capacity steps		%	25-50-75-100	25-50-75-100	25-50-75-100
EER/COP		W/W	2.88	2.8	2.83
Power supply		Ph/V/Hz	3Ph/380V/50Hz	3Ph/380V/50Hz	3Ph/380V/50Hz
Power input		kW	80	125	152
Compressor	Type	—	Semi-hermetic screw	Semi-hermetic screw	Semi-hermetic screw
	Starting mode	—	Y— Δ or Part winding	Y— Δ or Part winding	Y— Δ or Part winding
	Quantity	—	1	1	1
Water side heat exchanger	Type	—	Shell and tube	Shell and tube	Shell and tube
	Water flow volume	l/s	39.6	60.2	74.0
		GPM	174	265	326
	Pressure drop	kPa	≤50	≤50	≤50
		ft.WG	≤16	≤16	≤16
Connection pipe	—	DN100	DN100	DN125	
Air side heat exchanger	Type	—	High-efficient fin tube	High-efficient fin tube	High-efficient fin tube
	Fan type and quantity	—	axialx4	axialx6	axialx8
		Total fan air flow	m³/h	10×10 ⁴	15×10 ⁴
	Total fan motor power	kW	2.0x4	2.0x6	2.0x8
Sound pressure level		dB(A)	78	79	80
Dimension	Outline(WxDxH)	mm	3150x2100x2300	4330x2100x2300	5250x2100x2300
	Package(WxDxH)	mm	3230x2180x2300	4410x2180x2300	5330x2180x2300
Net/Gross/Operating weight		kg	3110/3130/3421	4600/4620/5060	5330/5350/5863
Loading quantity	40'GP/40'HQ	set	0/3	0/2	0/2

Water-cooled Screw Chiller

₹134a

It is a kind of water-cooled screw chiller with flooded screw compressor that can be connected to all sorts of fan coil unit to realize cooling for large civil or industrial buildings.



Comprehensive protection



Self-diagnosis



Memory function



Easier maintainability



24-hour timer



Long-distance monitoring

- Precision water temperature control thanks to stepless capacity adjustment from 25%~100%.
- Higher heat exchange efficiency thanks to flooded evaporating method.
- Higher efficiency under partial load thanks to paralleling operation design.
- High reliability oil return technology to avoid compressor damage from oil lack.
- Precision and stable volume adjusting thanks to orifice plus EXV throttle method.
- Automatic operation and energy saving operation makes an easier management.



Operating condition of nominal cooling (water temperature)				Operating range (water temperature)			
Chilled water		Cooling water		Chilled water		Cooling water	
Inlet(°C)	Outlet(°C)	Inlet(°C)	Outlet(°C)	Outlet(°C)	I/O difference(°C)	Outlet(°C)	I/O difference(°C)
12	7	30	35	5~15	2.5~8	18~35	3.5~8

Model		LSBLG180H/Nb-M	LSBLG210H/Nb-M	LSBLG240H/Nb-M	LSBLG300H/Nb-M	LSBLG340H/Nb-M	LSBLG380H/Nb-M	
Cooling capacity	kW	175	202	231	292	331	376	
	RT	49.8	57.4	65.7	83.0	94.1	106.9	
Capacity steps	%	25-100	25-100	25-100	25-100	25-100	25-100	
EER	W/W	5.00	5.05	5.13	5.21	5.25	5.30	
IPLV	W/W	5.58	5.63	5.72	5.81	5.86	5.90	
Power supply	Ph/V/Hz	3/380-415/50	3/380-415/50	3/380-415/50	3/380-415/50	3/380-415/50	3/380-415/50	
Power input	kW	35	40	45	56	63	71	
RLA	A	350AD/585ADD	423AD/686ADD	423AD/686ADD	612AD/943ADD	665AD/1023ADD	665AD/1023ADD	
LRA	A	60	68	77	96	108	121	
Compressor	Type	Semi-hermetic twin screw type						
	Starting mode	Y— △ or Part winding						
	Quantity	1	1	1	1	1	1	
Refrigerant charge volume	kg	100	100	100	110	120	130	
Refrigeration oil	Type	BSE170						
	Charge volume	L	15	15	15	22	19	19
Evaporator	Type	Flooded shell and tube						
	Fouling factor	m ² .°C/kw	0.018	0.018	0.018	0.018	0.018	0.018
	Water flow volume	l/s	8.4	9.7	11.0	14.0	15.8	18.0
		GPM	133	153	175	221	251	285
	Pressure drop	kPa	40	45	50	60	60	62
		ft.WG	13.4	15.1	16.7	20.1	20.1	20.7
Connection pipe	—	DN100	DN100	DN100	DN125	DN125	DN125	
Condenser	Type	Shell and tube						
	Fouling factor	m ² .°C/kw	0.044	0.044	0.044	0.044	0.044	0.044
	Water flow volume	l/s	10.5	12.1	13.8	17.4	19.8	22.5
		GPM	166	191	219	276	313	356
	Pressure drop	kPa	56	57	65	65	66	67
		ft.WG	18.7	19.1	21.8	21.8	22.1	22.4
Connection pipe	—	DN100	DN100	DN100	DN125	DN125	DN125	
Sound pressure level	dB(A)	76.2	76.6	77.4	80.1	81.2	83.3	
Outline dimension (WxDxH)	mm	3160×1150×1587	3160×1150×1587	3160×1150×1587	3160×1400×1680	3160×1400×1680	3160×1400×1720	
Net/Gross/Operating weight	kg	1800/1850/1890	1900/1950/1995	2100/2150/2205	2800/2850/2940	2900/2950/3045	3100/3150/3255	
Loading quantity	40'GP/40'HQ	set	3/3	3/3	3/3	3/3	3/3	

Model		LSBLG450H/Nb-M	LSBLG500H/Nb-M	LSBLG580H/Nb-M	LSBLG640H/Nb-M	LSBLG680H/Nb-M	LSBLG760H/Nb-M	
Cooling capacity	kW	442	495	572	636	676	752	
	RT	125.7	140.7	162.6	180.8	192.2	213.8	
Capacity steps	%	25-100	25-100	25-100	25-100	25-100	25-100	
EER	W/W	5.33	5.32	5.35	5.30	5.37	5.30	
IPLV	W/W	5.94	5.93	5.96	5.91	5.98	5.90	
Power supply	Ph/V/Hz	3/380-415/50	3/380-415/50	3/380-415/50	3/380-415/50	3/380-415/50	3/380-415/50	
Power input	kW	83	93	107	120	126	142	
RLA	A	436AD/1364ADD	465AD/1442ADD	586AD/1853ADD	650AD/2029ADD	423AD/686ADD	612AD/943ADD	
LRA	A	142	159	183	205	215	242	
Compressor	Type	Semi-hermetic twin screw type						
	Starting mode	Y— △ or Part winding						
	Quantity	1	1	1	1	2	2	
Refrigerant charge volume	kg	210	210	210	200	350	240	
Refrigeration oil	Type	BSE170						
	Charge volume	L	35	35	35	35	19×2	19×2
Evaporator	Type	Flooded shell and tube						
	Fouling factor	m ² .°C/kw	0.018	0.018	0.018	0.018	0.018	0.018
	Water flow volume	l/s	21.1	23.7	27.3	30.4	32.3	35.9
		GPM	335	375	433	482	512	569
	Pressure drop	kPa	64	66	68	74	76	76
		ft.WG	21.4	22.1	22.8	24.8	25.4	25.4
Connection pipe	—	DN150	DN150	DN150	DN150	DN200	DN200	
Condenser	Type	Shell and tube						
	Fouling factor	m ² .°C/kw	0.044	0.044	0.044	0.044	0.044	0.044
	Water flow volume	l/s	26.4	29.6	34.2	38.0	40.4	44.9
		GPM	418	469	541	602	640	712
	Pressure drop	kPa	69	71	72	73	76	77
		ft.WG	23.1	23.8	24.1	24.4	25.4	25.8
Connection pipe	—	DN150	DN150	DN150	DN150	DN200	DN200	
Sound pressure level	dB(A)	83.9	84.1	84.3	85.4	85.5	84.6	
Outline dimension (WxDxH)	mm	3160×1520×2130	3160×1520×2130	3160×1520×2130	3160×1520×2130	3400×1700×2030	3400×1700×2030	
Net/Gross/Operating weight	kg	3850/3900/4043	4100/4160/4305	4400/4460/4620	4600/4660/4830	5100/5160/5355	5500/5600/5775	
Loading quantity	40'GP/40'HQ	set	3/3	3/3	3/3	3/3	3/3	

Model		LSBLG880H/Nb-M	LSBLG1000H/Nb-M	LSBLG1160H/Nb-M	LSBLG1280H/Nb-M	LSBLG1400H/Nb-M	
Cooling capacity	kW	871	990	1144	1275	1395	
	RT	247.7	281.5	325.3	362.5	396.6	
Capacity steps	%	25-100	25-100	25-100	25-100	25-100	
EER	W/W	5.34	5.32	5.35	5.62	5.69	
IPLV	W/W	5.96	5.93	5.96	6.26	6.35	
Power supply	Ph/V/Hz	3/380-415/50	3/380-415/50	3/380-415/50	3/380-415/50	3/380-415/50	
Power input	kW	163	186	214	227	245	
RLA	A	436AD/1364ADD	465AD/1442ADD	586AD/1853ADD	650AD/2029ADD	650AD/2029ADD	
LRA	A	278	318	365	388	418	
Compressor	Type	Semi-hermetic twin screw type					
	Starting mode	Y— △ or Part winding					
	Quantity	2	2	2	2	2	
Refrigerant charge volume	kg	350	350	350	380	450	
Refrigeration oil	Type	BSE170					
	Charge volume	L	35×2	35×2	35×2	38×2	38×2
Evaporator	Type	Flooded shell and tube					
	Fouling factor	m ² .°C/kw	0.018	0.018	0.018	0.018	0.018
	Water flow volume	l/s	41.6	47.3	54.7	60.9	66.7
		GPM	660	750	866	966	1056
	Pressure drop	kPa	76	77	78	78	80
		ft.WG	25.4	25.8	26.1	26.1	26.8
Connection pipe	—	DN200	DN200	DN200	DN200	DN200	
Condenser	Type	Shell and tube					
	Fouling factor	m ² .°C/kw	0.044	0.044	0.044	0.044	0.044
	Water flow volume	l/s	52.0	59.1	68.3	76.1	83.3
		GPM	825	937	1083	1207	1321
	Pressure drop	kPa	82	83	84	85	87
		ft.WG	27.4	27.8	28.1	28.4	29.1
Connection pipe	—	DN250	DN250	DN250	DN250	DN250	
Sound pressure level	dB(A)	85.2	85.4	85.6	86.8	87.5	
Outline dimension (WxDxH)	mm	3900×1900×2230	3900×1900×2230	3900×1900×2230	3900×1900×2230	4900×2000×2230	
Net/Gross/Operating weight	kg	6200/6300/6510	6500/6650/6825	6800/6950/7140	7000/7150/7350	8000/8200/8400	
Loading quantity	40'GP/40'HQ	set	3/3	3/3	3/3	3/3	

Centrifugal Chiller

₹134a

It is a kind water-cooled chiller with centrifugal compressor that can be connected to all sorts of fan coil unit to realize cooling for large civil or industrial buildings.



Quiet function



Comprehensive protection



Memory function



Long-distance monitoring

- Precision water temperature control thanks to stepless capacity adjustment from 10%~100%.
- Higher reliability and less maintenance cost thanks to 3D-covered impeller.
- Lower noise and less vibration thanks to variable cross-section diffuser technology.
- Higher compressor reliability thanks to keyless connection technology.
- Urgent oil providing system to avoid compressor damage when sudden power failure occurs.
- Orifice throttle makes a steady flow volume adjustment.
- Multilevel password protection makes the operation controllable and reliable.
- Adjustable water outlet temperature according to various project requirement.
- Thanks to special refrigerant loop to cool the lubricant, no field oil cooling water pipe or external connection lubricant cooling system is needed.
- Inverter models are optional.



Operating condition of nominal cooling (water temperature)				Operating range (water temperature)			
Chilled water		Cooling water		Chilled water		Cooling water	
Inlet(°C)	Outlet(°C)	Inlet(°C)	Outlet(°C)	Outlet(°C)	I/O difference(°C)	Outlet(°C)	I/O difference(°C)
12	7	30	35	5~15	2.5~8	18~35	3.5~8

Single-stage

Model	LSBLX1400-M		LSBLX1600-M		LSBLX1800-M		LSBLX2000-M		LSBLX2200-M		LSBLX2400-M	
	LSBLX1400-G		LSBLX1600-G		LSBLX1800-G		LSBLX2000-G		LSBLX2200-G		LSBLX2400-G	
Cooling capacity	kW	1400	1600	1800	2000	2200	2400					
	RT	398	456	511	568	625	682					
Capacity adjustment range	%	10-100	10-100	10-100	10-100	10-100	10-100					
EER	W/W	5.53	5.65	5.66	5.76	5.82	5.74					
IPLV	W/W	6.30	6.43	6.44	6.56	6.62	6.53					
Power supply	-M	Ph/V/Hz	3/380/50	3/380/50	3/380/50	3/380/50	3/380/50	3/380/50	3/380/50	3/380/50	3/380/50	3/380/50
	-G	Ph/V/Hz	3/10000/50	3/10000/50	3/10000/50	3/10000/50	3/10000/50	3/10000/50	3/10000/50	3/10000/50	3/10000/50	3/10000/50
Power input	kW	253	283	318	347	378	418					
	-G	A	436.8	488.6	549.1	599.1	652.6	721.7				
RLA	-M	A	16.4	18.4	20.6	22.5	24.5	27.1				
	-G	A	16.4	18.4	20.6	22.5	24.5	27.1				
Compressor	Type	Semi-hermetic centrifugal compressor										
	Starting mode	—	Star-delta	Star-delta	Star-delta	Star-delta	Star-delta	Star-delta	Star-delta	Star-delta	Star-delta	Star-delta
	Quantity	—	1	1	1	1	1	1	1	1	1	1
Refrigerant charge volume	kg	550	575	600	625	650	700					
Refrigeration oil	Type	No.68 synthetic fatty oil										
	Charge volume	L	60	60	60	60	60	80				
Evaporator	Type	Flooded tybe evaporator										
	Fouling factor	m ² .°C/kw	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
	Water flow volume	l/s	66.9	76.4	86.1	95.6	105.0	114.7				
		GPM	1061.2	1210.9	1365	1514.7	1664.5	1818.6				
	Pressure drop	kPa	75	75	75	75	75	90				
		ft.WG	25.1	25.1	25.1	25.1	25.1	30.1				
Connection pipe	mm	200	200	250	250	250	250					
Condenser	Type	Shell and tube										
	Fouling factor	m ² .°C/kw	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044
	Water flow volume	l/s	83.6	95.6	107.5	119.4	131.4	143.3				
		GPM	1325.4	1514.7	1704.1	1893.4	2082.8	2272.1				
	Pressure drop	kPa	70	70	70	70	70	85				
ft.WG		23.4	23.4	23.4	23.4	23.4	28.5					
Connection pipe	mm	200	200	250	250	250	250					
Sound pressure level	dB(A)	88	88	88	90	90	90					
Dimension	Outline(WxDxH)	mm	4150x1730x2150	4150x1730x2150	4150x1900x2250	4150x1900x2250	4150x1900x2250	4150x1900x2250	4150x1900x2250	4150x1900x2250	4150x1900x2250	4150x1900x2250
	Package(WxDxH)	mm	4200x1780x2310	4200x1780x2310	4200x1970x2410	4200x1970x2410	4200x1970x2410	4200x1970x2410	4200x1970x2410	4200x1970x2410	4200x1970x2410	4200x1970x2410
Net/Gross/Operating weight	kg	7500/7700/8250	7800/8000/8500	8800/9000/9800	9200/9400/10200	9400/9600/10600	10800/11000/12800					
Loading quantity	40'GP/40'HQ	set	0/2	0/2	0/2	0/2	0/2	0/2	0/2	0/2	0/2	0/0






















Model	LSBLX2600-M		LSBLX2800-M		LSBLX3000-M		LSBLX3200-M		LSBLX3400-M		LSBLX3600-M	
	LSBLX2600-G		LSBLX2800-G		LSBLX3000-G		LSBLX3200-G		LSBLX3400-G		LSBLX3600-G	
Cooling capacity	kW	2600	2800	3000	3200	3400	3600					
	RT	740	796	854	909	967	1023					
Capacity adjustment range	%	10-100	10-100	10-100	10-100	10-100	10-100					
EER	W/W	5.80	5.89	5.77	5.83	5.93	5.91					
IPLV	W/W	6.60	6.71	6.57	6.63	6.75	6.73					
Power supply	-M	Ph/V/Hz	3/380/50	3/380/50	3/380/50	3/380/50	3/380/50	3/380/50	3/380/50	3/380/50	3/380/50	3/380/50
	-G	Ph/V/Hz	3/10000/50	3/10000/50	3/10000/50	3/10000/50	3/10000/50	3/10000/50	3/10000/50	3/10000/50	3/10000/50	3/10000/50
Power input	kW	448	475	520	549	573	609					
	-G	A	773.5	820.1	897.8	947.9	989.3	1051.5				
RLA	-M	A	29.1	30.8	33.7	35.6	37.2	39.5				
	-G	A	29.1	30.8	33.7	35.6	37.2	39.5				
Compressor	Type	Semi-hermetic centrifugal compressor										
	Starting mode	—	Star-delta	Star-delta	Star-delta	Star-delta	Star-delta	Star-delta	Star-delta	Star-delta	Star-delta	Soft start
	Quantity	—	1	1	1	1	1	1	1	1	1	1
Refrigerant charge volume	kg	725	750	775	800	825	900					
Refrigeration oil	Type	No.68 synthetic fatty oil										
	Charge volume	L	80	80	80	80	80	100				
Evaporator	Type	Flooded tybe evaporator										
	Fouling factor	m ² .°C/kw	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
	Water flow volume	l/s	124.2	133.9	143.3	152.8	162.5	171.9				
		GPM	1968.3	2122.4	2272.1	2421.8	2576.0	2725.7				
	Pressure drop	kPa	90	90	90	90	90	115				
		ft.WG	30.1	30.1	30.1	30.1	30.1	38.5				
Connection pipe	mm	250	250	300	300	300	300					
Condenser	Type	Shell and tube										
	Fouling factor	m ² .°C/kw	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044
	Water flow volume	l/s	155.3	167.2	179.2	191.1	203.1	215.0				
		GPM	2461.5	2650.8	2840.2	3029.5	3218.8	3408.2				
	Pressure drop	kPa	85	85	85	85	85	100				
ft.WG		28.5	28.5	28.5	28.5	28.5	33.5					
Connection pipe	mm	250	250	300	300	300	350					
Sound pressure level	dB(A)	90	90	90	92	92	92					
Dimension	Outline(WxDxH)	mm	4530x2070x2500	4530x2070x2500	4530x2020x2500	4530x2020x2500	4530x2120x2500	4530x2120x2500	4530x2120x2500	4530x2120x2500	4530x2120x2500	4530x2120x2500
	Package(WxDxH)	mm	4650x2110x2660	4650x2110x2660	4650x2160x2660	4650x2160x2660	4650x2160x2660	4650x2160x2660	4650x2160x2660	4650x2160x2660	4650x2160x2660	4650x2160x2660
Net/Gross/Operating weight	kg	11200/11400/13000	11600/11800/13200	11800/12000/13500	12000/12200/14000	12200/12400/14500	14600/14800/16500					
Loading quantity	40'GP/40'HQ	set	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0

Model	LSBLX3800-M		LSBLX4000-M		LSBLX4400-M		-		-	
	LSBLX3800-G		LSBLX4000-G		LSBLX4400-G		LSBLX4800-G		LSBLX5200-G	
Cooling capacity	kW	3800	4000	4400	4800	5200				
	RT	1081	1136	1251	1364	1479				
Capacity adjustment range	%	10-100	10-100	10-100	10-100	10-100				
EER	W/W	5.96	6.05	6.04	6.06	6.10				
IPLV	W/W	6.78	6.89	6.87	6.90	6.94				
Power supply	-M	Ph/V/Hz	3/380/50	3/380/50	3/380/50	-	-			
	-G	Ph/V/Hz	3/10000/50	3/10000/50	3/10000/50	3/10000/50	3/10000/50			
Power input	kW	638	661	729	792	853				
RLA	-M	A	1101.6	1141.3	1258.7	-	-			
	-G	A	41.4	42.9	47.3	51.4	55.3			
Compressor	Type	-	Semi-hermetic centrifugal compressor							
	Starting mode	-	Soft start	Soft start	Soft start	Direct start	Direct start			
	Quantity	-	1	1	1	1	1			
Refrigerant charge volume	kg	925	950	1000	1050	1100				
Refrigeration oil	Type	-	No.68 synthetic fatty oil	No.68 synthetic fatty oil	No.68 synthetic fatty oil	No.68 synthetic fatty oil	No.68 synthetic fatty oil			
	Charge volume	L	100	100	100	100	100			
Evaporator	Type	-	Flooded shell and tube	Flooded shell and tube	Flooded shell and tube	Flooded shell and tube	Flooded shell and tube			
	Fouling factor	m ² .°C/kw	0.018	0.018	0.018	0.018	0.018			
		l/s	181.7	191.1	210.3	229.4	248.3			
	Water flow volume	GPM	2879.9	3029.5	3333.3	3637.2	39376.6			
		kPa	115	115	115	115	115			
	Pressure drop	ft.WG	38.5	38.5	38.5	38.5	38.5			
		mm	300	300	350	350	350			
Condenser	Type	-	Shell and Tube	Shell and Tube	Shell and Tube	Shell and tube	Shell and tube			
	Fouling factor	m ² .°C/kw	0.044	0.044	0.044	0.044	0.044			
		l/s	226.9	238.9	262.8	286.7	310.6			
	Water flow volume	GPM	3597.5	3786.9	4165.6	4544.2	4922.9			
		kPa	100	100	105	105	105			
	Pressure drop	ft.WG	33.5	33.5	35.2	35.2	35.2			
		mm	350	350	350	350	350			
Sound pressure level	dB(A)	92	92	92	95	95				
Dimension	Outline(WxDxH)	mm	4750x2330x2750	4750x2330x2750	4750x2480x2750	4750x2480x2750	4750x2480x2750			
	Package(WxDxH)	mm	5000x2340x2910	5000x2340x2910	5000x2490x2910	5000x2500x2910	5000x2500x2910			
Net/Gross/Operating weight	kg	14800/15000/17000	15200/15400/17500	15800/16000/18000	16200/16400/18500	16600/16800/19000				
Loading quantity	40'GP/40'HQ	set	0/0	0/0	0/0	0/0	0/0			

Tow-stage

Model	LSBLX5600S-G		LSBLX6000S-G		LSBLX6400S-G		LSBLX6800S-G		LSBLX7200S-G	
	Cooling capacity	kW	5600	6000	6400	6800	7200			
Capacity adjustment range	%	10-100	10-100	10-100	10-100	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				
Power supply	Ph/V/Hz	3/10000/50	3/10000/50	3/10000/50	3/10000/50	3/10000/50				
Power input	kW	940	998	1042	1125	1175				
RLA/LRA	A	61.0	64.7	67.6	73.0	76.2				
Compressor	Type	-	Semi-hermetic centrifugal compressor							
	Starting mode	-	Direct start	Direct start	Direct start	Direct start	Direct start			
	Quantity	-	1	1	1	1	1			
Refrigerant charge volume	kg	1150	1200	1250	1300	1400				
Refrigeration oil	Category	-	No.68 synthetic fatty oil							
	Charge volume	L	125	125	125	125	125			
Evaporator	Type	-	Flooded tybe evaporator							
	Fouling factor	m ² .°C/kw	0.018	0.018	0.018	0.018	0.018			
		l/s	267.5	286.7	305.8	325.0	343.9			
	Water flow volume	GPM	4240.4	4544.2	4848.1	5151.9	5451.3			
		kPa	125	125	125	125	125			
	Pressure drop	ft.WG	41.9	41.9	41.9	41.9	41.9			
		mm	350	350	400	400	400			
Condenser	Type	-	Shell and tube	Shell and tube	Shell and tube	Shell and tube	Shell and tube			
	Fouling factor	m ² .°C/kw	0.044	0.044	0.044	0.044	0.044			
		l/s	334.4	358.3	382.2	406.1	430.0			
	Water flow volume	GPM	5301.6	5680.3	6059	6437.7	6816.4			
		kPa	125	125	125	125	125			
	Pressure drop	ft.WG	41.9	41.9	41.9	41.9	41.9			
		mm	400	400	450	450	450			
Sound pressure level	dB(A)	95	95	95	95	95				
Dimension	Outline(WxDxH)	mm	5350x2620x3100	5350x2620x3100	5350x2820x3100	5350x2820x3100	5350x2820x3100			
	Package(WxDxH)	mm	5800x2630x3260	5800x2630x3260	5800x2830x3260	5800x2830x3260	5800x2830x3260			
Net/Gross/Operating weight	kg	22500/22700/25500	23800/24000/27100	25500/25700/29000	26100/26300/29700	26500/26700/30500				
Loading quantity	40'GP/40'HQ	set	0/0	0/0	0/0	0/0	0/0			

Control System Lineup

Control system	Product series	Mini chiller		Air-cooled scroll chiller		Air-cooled	Water-cooled	Centrifugal	
		Split series	Integral series	B series	C series	Screw chiller	screw chiller	chiller	
									
Chiller	Display panel	Z22301				●			
		Z26301C					●		
		Z2F11E*1						●	
		Z12301A			●				
		Z15301		●					
		Z2G1B01*1						●	
Touch screen	CM18-GM8/A1(M)						●		
	CM27-GM8/A1(M)						●		
Long-distance monitoring software	Gree AC Eudemon 2009	FE30-00/A(M)				●	●	●	●
BMS accessories*2 (modbus)	Communication module	ME30-28/E(M)				●			
		Touch screen	CM18-GM8/A1(M)					●	
Other modules	Patch board	RS232-RS422V485				●	●	●	●
		Z103		●	●				
		RS-422V485					●	●	●

Note:
 ● means standard, ● means optional.
 *1 With BMS (modbus) function.
 *2 BMS interface is equipped.

TERMINAL

FAN COIL UNIT

AIR HANDLING UNIT

AIR CURTAIN

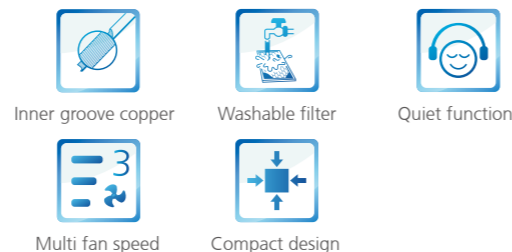
DIFFUSER

CONTROL SYSTEM LINEUP

Fan Coil Unit

Concealed Ceiling Type

It is a kind of fan coil unit that is connected to the chillers to realize cooling/heating for civil or residential use.



- Thanks to optimized air flue design that greatly improve the fan efficiency and lower the operation noise.
- Flexible air inlet/outlet directions, meet different installation requirements.
- Washable filter is optional when equipped with air return box.



Nominal test condition (temperature)				
Item	DB (°C)	WB (°C)	Inlet (°C)	Outlet (°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(H/M/L)	CFM	200/146/125	300/232/155	400/291/194	500/375/250	600/464/309	800/644/429	1000/750/500	1200/926/618
ESP	Pa	12	12	12	12	12	12	12	12
Capacity	Cooling/Heating	kW	1.9/3.1	2.8/4.4	3.6/5.5	4.5/7.0	5.5/8.9	7.4/11.0	9.2/14.0
	Type	PhV/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Power system	Input	W	37	45	62	70	96	120	145
	Type	PhV/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Water system	Water flow volume	l/s	0.1	0.14	0.17	0.21	0.27	0.6	0.45
	Pressure drop	kPa	12	21	16	23	36	38	40
Sound pressure level		Ft-WG	4	7	5.3	7.7	12.0	12.7	13.3
		dB(A)	35	38	40	42	44	46	48
Dimension (WxDxH)	Outline	mm	881x510x245	1011x510x245	1131x510x245	1211x510x245	1211x510x245	1176x510x245	1761x510x245
	Package	mm	900x560x275	1030x560x275	1150x560x275	1230x560x275	1230x560x275	1780x560x275	1780x560x275
Net weight/Gross weight	kg	14/17	15/19.5	16.5/21	18/22	19/24	28.5/35	34/39	35/40
Connection pipe diameter	Water inlet & outlet	inch	φ3/4(inner groove)						
	Condensed water drain	inch	φ3/4(outer groove)						
Loading quantity	40'GP/40'HQ	—	448/490	447/482	344/386	316/355	316/355	220/247	220/247
Optionals	Wired remote controller	—	Luxury wired controller: WK-010PA-K; LCD controller: WK-110PA0						
	Plenum with filter	—	HF31	HF32	HF33	HF34	HF36	HF36	HF36
	Plenum without filter	—	HF41	HF42	HF43	HF44	HF44	HF46	HF46
		—	HF41	HF42	HF43	HF44	HF44	HF46	HF46

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(H/M/L)	CFM	200/146/125	300/232/155	400/291/194	500/375/250	600/464/309	800/644/429	1000/750/500	1200/926/618
ESP	Pa	30	30	30	30	30	30	30	30
Capacity	Cooling/Heating	kW	1.9/3.1	2.8/4.4	3.6/5.5	4.5/7.0	5.5/8.9	7.4/11.0	9.2/14.0
	Type	PhV/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Power system	Input	W	42	55	68	80	102	140	158
	Type	PhV/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Water system	Water flow volume	l/s	0.1	0.14	0.17	0.21	0.27	0.6	0.45
	Pressure drop	kPa	12	21	16	23	36	38	40
Sound pressure level		Ft-WG	4	7	5.3	7.7	12.0	12.7	13.3
		dB(A)	38	40	42	44	46	47	49
Dimension (WxDxH)	Outline	mm	881x510x245	1011x510x245	1131x510x245	1211x510x245	1211x510x245	1761x510x245	1761x510x245
	Package	mm	900x560x275	1030x560x275	1150x560x275	1230x560x275	1230x560x275	1780x560x275	1780x560x275
Net weight/Gross weight	kg	14/17	15/19.5	16.5/21	18/22	19/24	28.5/35	34/39	35/40
Connection pipe diameter	Water inlet & outlet	inch	φ3/4(inner groove)						
	Condensed water drain	inch	φ3/4(outer groove)						
Loading quantity	40'GP/40'HQ	—	448/490	447/482	344/386	316/355	316/355	220/247	220/247
Optionals	Wired remote controller	—	Luxury wired controller: WK-010PA-K; LCD controller: WK-110PA0						
	Plenum with filter	—	HF31	HF32	HF33	HF34	HF34	HF36	HF36
	Plenum without filter	—	HF41	HF42	HF43	HF44	HF44	HF46	HF46
		—	HF41	HF42	HF43	HF44	HF44	HF46	HF46

3 Rows

Model		FP-34WAS-R	FP-51WAS-R	FP-68WAS-R	FP-85WAS-R	FP-102WAS-R	FP-136WAS-R	
Air flow volume(H/M/L)	CFM	200/146/125	300/232/155	400/291/194	500/375/250	600/464/309	800/644/429	
ESP	Pa	30	30	30	30	30	30	
Capacity	Cooling/Heating	kW	2.19/3.29	3.37/5.06	4.28/6.42	5.04/7.56	6.46/9.70	8.17/10.90
	Type	PhV/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Power system	Input	W	44	59	72	87	108	156
	Type	PhV/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Water system	Water flow volume	l/s	0.11	0.17	0.22	0.25	0.32	0.37
	Pressure drop	kPa	10	15	25	30	40	20
Sound pressure level		Ft-WG	3.3	5	8.4	10	13.3	6.7
		dB(A)	38	40	42	44	46	47
Dimension (WxDxH)	Outline	mm	881x510x245	1011x510x245	1131x510x245	1211x510x245	1371x510x245	1761x510x245
	Package	mm	900x560x275	1030x560x275	1150x560x275	1230x560x275	1390x560x275	1780x560x275
Net weight/Gross weight	kg	15/19	16/20.5	18/23	19.5/24.5	21/26	30/35	
Connection pipe diameter	Water inlet & outlet	inch	φ3/4(inner groove)					
	Condensed water drain	inch	φ3/4(outer groove)					
Loading quantity	40'GP/40'HQ	—	448/490	392/434	344/386	316/355	268/301	220/247
Optionals	Wired remote controller	—	Luxury wired controller: WK-010PA-K; LCD controller: WK-110PA0					
	Plenum with filter	—	HF31	HF32	HF33	HF34	HF35	HF36
	Plenum without filter	—	HF41	HF42	HF43	HF44	HF45	HF46
		—	HF41	HF42	HF43	HF44	HF45	HF46

Model		FP-170WAS-R	FP-204WAS-R	FP-238WAS-R	FP-272WAS-R	FP-306WAS-R	FP-340WAS-R	
Air flow volume(H/M/L)	CFM	1000/750/500	1200/926/618	1400/971/729	1600/1235/868	1800/1006/674	2000/1400/812	
ESP	Pa	30	30	30	30	30	30	
Capacity	Cooling/Heating	kW	11.4/18.2	12.2/18.6	12.4/19.5	13.5/21.3	16.0/24.8	17.0/26.1
	Type	PhV/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Power system	Input	W	174	212	380	475	535	640
	Type	PhV/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Water system	Water flow volume	l/s	0.55	0.57	0.57	0.64	0.74	0.79
	Pressure drop	kPa	38	45	21.9	27.9	37.5	41.2
Sound pressure level		Ft-WG	12.7	15	7.3	9.3	12.5	13.7
		dB(A)	49	52	56	59	62	63
Dimension (WxDxH)	Outline	mm	1921x510x245	1921x510x245	1671x595x354	1671x595x354	1921x595x354	1921x595x354
	Package	mm	1940x560x275	1940x560x275	1750x650x380	1750x650x380	1950x650x380	1950x650x380
Net weight/Gross weight	kg	33/38.5	24/39.5	48/55	48/55	52/60	52/60	
Connection pipe diameter	Water inlet & outlet	inch	φ3/4(inner groove)					
	Condensed water drain	inch	φ3/4(outer groove)					
Loading quantity	40'GP/40'HQ	—	196/220	196/220	140/166	140/166	130/153	
Optionals	Wired remote controller	—	Luxury wired controller: WK-010PA-K; LCD controller: WK-110PA0					
	Plenum with filter	—	HF37	HF37	HF28	HF28	HF29	HF29
	Plenum without filter	—	HF47	HF47	HF48	HF48	HF49	HF49
		—	HF47	HF47	HF48	HF48	HF49	HF49

4 Rows

Model		FP-34WAF-R	FP-51WAF-R	FP-68WAF-R	FP-85WAF-R	FP-102WAF-R	FP-136WAF-R
Air flow volume(H/M/L)	CFM	188/156/80	289/259/186	383/324/207	477/368/242	571/507/395	760/616/424
ESP	Pa	30	30	30	30	30	30
Capacity	Cooling/Heating	kW	2.11/3.70	3.82/5.70	4.85/7.20	5.71/8.50	7.32/10.90
	Type	PhV/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Power system	Input	W	44	59	80	87	108
	Type	PhV/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Water system	Water flow volume	l/s	0.11	0.19	0.24	0.31	0.35
	Pressure drop	kPa	15	7.8	9.7	23.3	35.5
Sound pressure level		Ft-WG	5	2.6	3.2	7.8	11.8
		dB(A)	40	42	44	47	49
Dimension (WxDxH)	Outline	mm	881x510x245	1011x510x245	1131x510x245	1211x510x245	1371x510x245
	Package	mm	900x560x275	1030x560x275	1150x560x275	1230x560x275	1390x560x275
Net weight/Gross weight	kg	14.4/18.9	17.2/21.9	19.2/24.1	20.5/25.6	23.2/28.7	34.2/40.5
Connection pipe diameter	Water inlet & outlet	inch	φ3/4(inner groove)				
	Condensed water drain	inch	φ3/4(outer groove)				
Loading quantity	40'GP/40'HQ	—	448/490	392/434	344/386	316/355	268/301
Optionals	Wired remote controller	—	Luxury wired controller: WK-010PA-K; LCD controller: WK-110PA0				
	Plenum with filter	—	HF31	HF32	HF33	HF34	HF35
	Plenum without filter	—	HF41	HF42	HF43	HF44	HF45
		—	HF41	HF42	HF43	HF44	HF45

4 Rows

Model		FP-170WAF-R	FP-204WAF-R	FP-238WAF-R	FP-272WAF-R	FP-306WAF-R	FP-340WAF-R
Air flow volume(H/M/L)		CFM 948/750/500	1043/926/618	1400/971/729	1600/1235/868	180/1006/674	2000/1400/812
ESP		Pa 30	30	30	30	30	30
Capacity	Cooling/Heating	kW 11.4/18.2	12.2/20.6	14.2/21.4	16.0/24.0	18.7/28.1	19.8/29.7
	Type	PhV/Hz 1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Power system	Input	W 174	212	380	475	535	640
	Water flow volume	l/s 0.51	0.58	0.78	0.89	1.02	1.13
Water system	Pressure drop	kPa 23.9	31.5	29.2	21.7	26.2	32.5
	Ft-WG	8.0	10.5	9.7	7.2	8.7	10.8
Sound pressure level		dB(A) 51	52	56	58	60	61
Dimension (WxDxH)	Outline	mm 1921x510x245	1921x510x245	1671x595x354	1671x595x354	1921x595x354	1921x595x354
	Package	mm 1940x560x275	1940x560x275	1750x650x380	1750x650x380	1950x650x380	1950x650x380
Net weight/Gross weight		kg 37.5/44	37.5/44	52/60	52/60	59/66	59/66
Connection pipe diameter	Water inlet & outlet	inch ϕ 1(inner groove)					
	Condensed water drain	inch ϕ 1(outer groove)					
Loading quantity	40' GP/40'HQ	—	196/220	196/220	140/166	140/166	130/153
	Wired remote controller	—	Luxury wired controller: WK-010PA-K; LCD controller: WK-110PA0				
Optionals	Plenum with filter	—	HF37	HF37	HF28	HF28	HF29
	Plenum without filter	—	HF47	HF47	HF48	HF48	HF49
	Plenum with filter	—	HF37	HF37	HF28	HF28	HF29

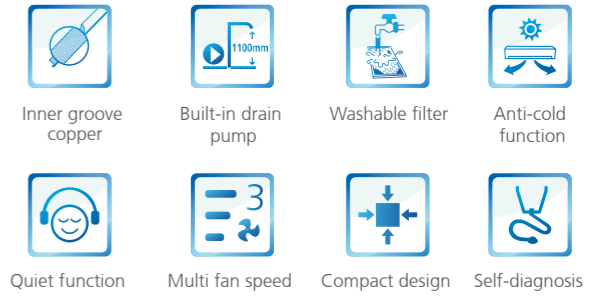
3+1 Rows

Model		FP-34WAT-R	FP-51WAT-R	FP-68WAT-R	FP-85WAT-R	FP-102WAT-R	FP-136WAT-R
Air flow volume(H/M/L)		CFM 188/156/80	289/259/186	383/324/207	477/368/242	571/507/395	760/616/424
ESP		Pa 30	30	30	30	30	30
Capacity	Cooling/Heating	kW 1.95/1.76	3.07/2.49	3.88/3.17	4.55/3.83	5.82/4.85	7.35/6.69
	Type	PhV/Hz 1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Power system	Input	W 44	59	80	87	108	156
	Water flow volume	l/s 0.11	0.17	0.21	0.29	0.32	0.39
Water system	Pressure drop	kPa 10.6	23.3	18.2	38	56.5	16.8
	Ft-WG	3.5	7.8	6.1	12.7	18.8	5.6
Sound pressure level		dB(A) 40	42	44	47	49	50
Dimension (WxDxH)	Outline	mm 881x510x245	1011x510x245	1131x510x245	1211x510x245	1371x510x245	1761x510x245
	Package	mm 900x560x275	1030x560x275	1150x560x275	1230x560x275	1390x560x275	1780x560x275
Net weight/Gross weight		kg 14.4/18.9	17.2/21.9	19.2/24.1	20.5/25.6	23.2/28.7	34.2/40.5
Connection pipe diameter	Water inlet & outlet	inch ϕ 3/4(inner groove)					
	Condensed water drain	inch ϕ 3/4(outer groove)					
Loading quantity	40' GP/40'HQ	—	448/490	392/434	344/386	316/355	268/301
	Wired remote controller	—	Luxury wired controller: WK-010PA-K; LCD controller: WK-110PA0				
Optionals	Plenum with filter	—	HF31	HF32	HF33	HF34	HF35
	Plenum without filter	—	HF41	HF42	HF43	HF44	HF45
	Plenum with filter	—	HF31	HF32	HF33	HF34	HF35

Model		FP-170WAT-R	FP-204WAT-R	FP-238WAT-R	FP-272WAT-R	FP-306WAT-R	FP-340WAT-R
Air flow volume(H/M/L)		CFM 948/836/645	1043/786/754	1400/970/729	1600/1235/867	1800/1006/674	2000/1400/812
ESP		Pa 30	30	30	30	30	30
Capacity	Cooling/Heating	kW 9.65/7.00	10.96/8.85	12.35/12.97	13.49/14.165	15.67/16.46	16.53/17.36
	Type	PhV/Hz 1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Power system	Input	W 174	212	380	475	535	640
	Water flow volume	l/s 0.50	0.52	0.59	0.65	0.80	0.84
Water system	Pressure drop	kPa 28	29.4	21.8	26.6	42.1	46.4
	Ft-WG	9.3	9.8	7.3	8.9	14.0	15.5
Sound pressure level		dB(A) 51	52	56	58	60	61
Dimension (WxDxH)	Outline	mm 1921x510x245	1921x510x245	1671x595x354	1671x595x354	1921x595x354	1921x595x354
	Package	mm 1940x560x275	1940x560x275	1750x650x380	1750x650x380	1950x650x380	1950x650x380
Net weight/Gross weight		kg 37.5/44	37.5/44	52/60	52/60	59/66	59/66
Connection pipe diameter	Water inlet & outlet	inch ϕ 1(inner groove)					
	Condensed water drain	inch ϕ 1(outer groove)					
Loading quantity	40' GP/40'HQ	—	196/220	196/220	140/166	140/166	130/153
	Wired remote controller	—	Luxury wired controller: WK-010PA-K; LCD controller: WK-110PA0				
Optionals	Plenum with filter	—	HF37	HF37	HF28	HF28	HF29
	Plenum without filter	—	HF47	HF47	HF48	HF48	HF49
	Plenum with filter	—	HF37	HF37	HF28	HF28	HF29

Fan Coil Unit

Cassette Type



- Thanks to optimized air flue design that greatly improve the fan efficiency and lower the operation noise.
- Four directions airflow that makes an even temperature and humidity distribution.
- Evaporator moisture auto deaning after power off to avoid mildew.
- Forced high speed fan operation under emergency condition.



Item	Nominal test condition (temperature)			
	DB (°C)	WB (°C)	Inlet (°C)	Outlet (°C)
Cooling	27	19	7	12
Heating	21	—	60	—

Model		FP-51XD-E	FP-68XD-E	FP-8XD-E	FP-10XD-E	FP-12.5XD-E	FP-14XD-E	FP-16XD-E	FP-18XD-E
Air flow volume(H/M/L)		CFM 300/247/206	371/318/265	500/375/303	600/464/363	735/606/538	840/802/705	965/853/781	1059/1035/932
Capacity		Cooling/Heating kW 3.00/4.00	3.50/5.00	4.64/7.50	5.40/9.10	6.70/10.50	7.74/11.20	8.70/12.90	9.60/14.60
Power system	Type	PhV/Hz 1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
	Input	W 49	56	100	100	150	140	160	155
Water system	Water flow volume	l/s 0.14	0.17	0.23	0.26	0.33	0.38	0.43	0.47
	Pressure drop	kPa 5	9	15	25	25	25	27	29
Sound pressure level		dB(A) 43	48	46	46	47	52	53	54
Body	Dimension (WxDxH)	Outline	mm 600x230x600	600x230x600	840x320x840	840x320x840	840x320x840	840x320x840	840x320x840
		Package	mm 848x310x678	848x310x678	960x394x960	960x394x960	960x394x960	960x394x960	960x394x960
	Net weight/Gross weight	kg 19.3/27	19.3/27	30/38	30/38	30/38	38/46	38/46	38/46
Panel	Dimension (WxDxH)	Outline	mm 650x50x650	650x50x650	960x60x960	960x60x960	960x60x960	960x60x960	960x60x960
		Package	mm 730x102x670	730x102x670	1025x115x1040	1025x115x1040	1025x115x1040	1025x115x1040	1025x115x1040
	Net weight/Gross weight	kg 5/6	5/6	6.5/10	6.5/10	6.5/10	6.5/10	6.5/10	6.5/10
Connection pipe size	Water inlet & outlet	inch ϕ 3/4	ϕ 3/4	ϕ 3/4	ϕ 3/4	ϕ 3/4	ϕ 3/4	ϕ 3/4	ϕ 3/4
	Condensed water drain	mm 25	25	25	25	25	25	25	25
Loading quantity		40' GP/40'HQ	—	216/256	216/256	116/133	116/133	116/133	93/112
Standard controller		Wireless	—	Y512	Y512	Y512	Y512	Y512	Y512
Optional controller		Wired	—	Z4E351B	Z4E351B	Z4E351B	Z4E351B	Z4E351B	Z4E351B

New Panel

Model		FP-85XD/B-T	FP-102XD/B-T	FP-125XD/B-T	FP-140XD/B-T	FP-160XD/B-T	FP-180XD/B-T	FP-200XD/B-T
Air flow volume(H/M/L)		CFM 500/375/303	600/464/362	735/606/538	841/802/705	965/853/781	1060/1035/932	1176/994/860
Capacity		Cooling/Heating kW 4.64/7.50	5.40/9.10	6.70/10.50	7.74/11.20	8.70/12.90	9.60/14.60	13.00/19.00
Power system	Type	PhV/Hz 1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
	Input	W 100	100	150	140	180	200	200
Water system	Water flow volume	l/s 0.23	0.26	0.33	0.38	0.43	0.47	0.64
	Pressure drop	kPa 15	19	21	21	31	36	37
Sound pressure level		dB(A) 5.025	6.365	7.035	7.035	10.385	12.060	12.395
Body	Dimension (WxDxH)	Outline	mm 840x840x240	840x840x240	840x840x240	840x840x320	840x840x320	840x840x320
		Package	mm 960x960x310	960x960x310	960x960x310	960x960x394	960x960x394	960x960x394
	Net weight/Gross weight	kg 27/35	27/35	27/35	33/42	33/42	33/42	33/42
Panel	Dimension (WxDxH)	Outline	mm 950x950x85	950x950x85	950x950x85	950x950x85	950x950x85	950x950x85
		Package	mm 1030x1035x118	1030x1035x118	1030x1035x118	1030x1035x118	1030x1035x118	1030x1035x118
	Net weight/Gross weight	kg 7/11	7/11	7/11	7/11	7/11	7/11	7/11
Connection pipe size	Water inlet & outlet	inch ϕ 3/4	ϕ 3/4	ϕ 3/4	ϕ 3/4	ϕ 3/4	ϕ 3/4	ϕ 3/4
	Condensed water drain	mm 33	33	33	33	33	33	33
Loading quantity		40' GP/40'HQ	—	132/148	132/148	132/148	112/120	112/120
Standard controller		Wireless	—	YB1FA(X-FAN)	YB1FA(X-FAN)	YB1FA(X-FAN)	YB1FA(X-FAN)	YB1FA(X-FAN)
Optional controller		Wired	—	Z4E351B	Z4E351B	Z4E351B	Z4E351B	Z4E351B

Fan Coil Unit

Floor Ceiling Type



- Thanks to optimized air flue design that greatly improve the fan efficiency and lower the operation noise.
- The fan will be operated only if the water inlet temperature is lower than the setting value to avoid warm air under cooling condition.



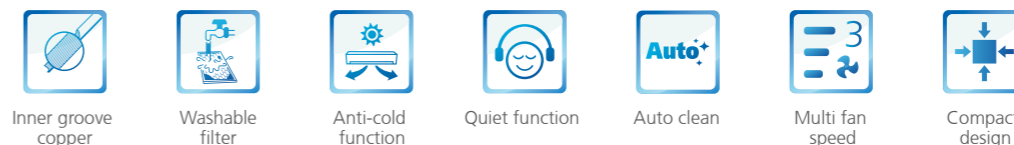
Nominal test condition (temperature)				
Item	DB (°C)	WB (°C)	Inlet (°C)	Outlet (°C)
Cooling	27	19	7	12
Heating	21	—	60	—

Model		FP-34WM-K	FP-51WM-K	FP-68WM-K	FP-85WM-K	FP-102WM-K	FP-136WM-K	FP-170WM-K	FP-204WM-K	
Air flow volume(H/M/L)	CFM	200/146/125	300/232/155	400/291/194	500/375/250	600/464/309	800/644/429	1000/750/500	1200/926/618	
Capacity	Cooling/Heating	kW 1.8/2.8	2.8/4.2	3.6/5.4	4.5/6.8	5.4/8.1	7.2/10.8	9.0/13.5	10.8/16.2	
Power system	Type	PhV/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	
	Input	W	40	40	62	77	99	162	240	275
Water system	Water flow volume	l/s	0.10	0.14	0.18	0.22	0.26	0.36	0.42	0.54
	Pressure drop	kPa	9.8	9.8	36.5	36.5	30.8	34.8	38.4	42.8
		Ft-WG	3.28	3.28	12.23	12.23	10.32	11.66	12.86	14.34
Sound pressure level	dB(A)	48	48	49	49	49	51	52	55	
Dimension (WxDxH)	Outline	mm	834x694x238	834x694x238	1300x600x188	1300x600x188	1300x600x188	159x695x238	159x695x238	159x695x238
	Package	mm	960x830x330	960x830x330	1414x724x248	1414x724x248	1414x724x248	1714x830x330	1714x830x330	1714x830x330
Net weight/Gross weight	kg	26/35	26/35	34/38	34/38	34/38	48.5/57	48.5/57	48.5/57	
Connection pipe diameter	Water inlet & outlet	inch	Φ3/4(outer groove)							
	Condensed water drain	inch	Φ3/4(outer groove)							
Loading quantity	40'GP/40'HQ	—	224/267	224/267	220/244	220/244	220/244	111/117	111/117	111/117
Optional	Wireless remote controller	—	Y512	Y512	Y512	Y512	Y512	Y512	Y512	Y512

Model		FP-34ZD/B-T	FP-51ZD/B-T	FP-68ZD/B-T	FP-85ZD/B-T	FP-102ZD/B-T	FP-136ZD/B-T	FP-170ZD/B-T	FP-204ZD/B-T	
Air flow volume(H/M/L)	CFM	200/146/125	300/232/155	400/291/194	500/375/250	600/464/309	800/644/429	1000/750/500	1200/926/618	
Capacity	Cooling/Heating	kW 1.9/2.8	2.8/4.2	3.6/5.4	4.5/6.8	5.4/8.1	7.2/10.8	9.0/13.5	10.8/16.2	
Power system	Type	PhV/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	
	Input	W	40	40	62	77	99	162	240	275
Water system	Water flow volume	l/s	0.10	0.14	0.18	0.22	0.26	0.36	0.42	0.54
	Pressure drop	kPa	9.8	15	36.5	36.5	30.8	34.8	38.4	42.8
		Ft-WG	3.21	4.92	11.97	11.97	10.10	11.41	12.60	14.04
Sound pressure level	dB(A)	48	48	49	49	49	51	52	55	
Dimension (WxDxH)	Outline	mm	834x238x695	834x238x695	1300x188x600	1300x188x600	1300x188x600	1590x238x695	1590x238x695	1590x238x695
	Package	mm	960x330x830	960x330x830	1414x248x724	1414x248x724	1414x248x724	1714x330x830	1714x330x830	1714x330x830
Net weight/Gross weight	kg	26/35	26/35	34/38	34/38	34/38	48.5/57	48.5/57	48.5/57	
Connection pipe diameter	Water inlet & outlet	inch	Φ3/4(outer groove)							
	Condensed water drain	inch	Φ3/4(outer groove)							
Loading quantity	40'GP/40'HQ	—	224/267	224/267	220/244	220/244	220/244	111/117	111/117	111/117
Optionals	Wireless remote controller	—	YB1FA(X-FAN)	YB1FA(X-FAN)	YB1FA(X-FAN)	YB1FA(X-FAN)	YB1FA(X-FAN)	YB1FA(X-FAN)	YB1FA(X-FAN)	YB1FA(X-FAN)
	Wired remote controller	—	Z4E351B	Z4E351B	Z4E351B	Z4E351B	Z4E351B	Z4E351B	Z4E351B	Z4E351B

Fan Coil Unit

Wall Mounted Type



- Thanks to optimized air flue design that greatly improve the fan efficiency and lower the operation noise.
- Reasonable airflow that makes an even temperature and humidity distribution.



Nominal test condition (temperature)				
Item	DB (°C)	WB (°C)	Inlet (°C)	Outlet (°C)
Cooling	27	19	7	12
Heating	21	—	60	—

Model		FP-34BA2/A-K	FP-51BA2/A-K	FP-68BA2/A-K	FP-85BA2/A-K	FP-51BWA2/A-K	FP-85BA2/A-D	
Air flow volume(H/M/L)	CFM	212/189/166	324/242/215	400/347/312	500/416/362	265/225/190	588/493/423	
Capacity	Cooling/Heating	kW 2.10/3.15	2.70/4.05	3.60/5.40	4.20/6.30	1.50/2.25	5.40/8.50	
Power system	Type	PhV/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	
	Input	W	50	50	60	60	50	70
Water system	Water flow volume	l/s	0.11	0.13	0.17	0.19	0.08	0.24
	Pressure drop	kPa	13	24	44	45	37	63
		Ft-WG	4.3	7.9	14.5	14.8	12.2	20.7
Sound pressure level	dB(A)	35	40	43	48	42	49	
Dimension (WxDxH)	Outline	mm	845x180x275	845x180x275	940x200x298	940x200x298	845x180x275	940x200x298
	Package	mm	915x255x355	915x255x355	1010x285x380	1010x285x380	915x255x355	1010x285x380
Net weight/Gross weight	kg	11/14	11/14	13/17	13/17	11/14	13/17	
Connection pipe size	Water inlet & outlet	inch	Φ1/2	Φ1/2	Φ1/2	Φ1/2	Φ1/2	Φ1/2
	Condensing water drain	mm	15.6	15.6	15.6	15.6	15.6	15.6
Loading quantity	40'GP/40'HQ	—	765/850	765/850	595/671	595/671	765/850	595/671
Optionals	Wireless remote controller	—	YB1FA	YB1FA	YB1FA	YB1FA	YB1FA	YB1FA
	Wired remote controller	—	Z4E351B	Z4E351B	Z4E351B	Z4E351B	Z4E351B	Z4E351B

Air Handling Unit

Horizontal Mounted Packaged

It is a kind of fan coil unit that is connected to the chillers to realize cooling/heating for civil or industrial use.



Washable filter



Quiet function



Compact design



Easier maintainability

- Anti-freeze designed cooling coil.
- Anti-corrosion thanks to painted double-faced electro-galvanized or hot-electro-galvanized metal case.
- Easy maintenance thanks to detachable panel and adjustable motor base.
- Blue hydrophilic aluminum fin: The fin is anti-corrosion and easy clean, lower decreasing of performance after years of operation.
- Anti-frostcrack design for heat exchanger: With proper designed water discharge valve, complete water discharging is ensured, so that the copper tube will not be frost cracked during winter.
- The heat exchange stream is well optimized design, that the heat exchange performance of the heat exchanger can be maximum utilized.
- Slimmer body by maximum optimized design, can save more space and bring down the cost.

Nominal test condition (temperature)					
Item		DB (°C)	WB (°C)	Inlet (°C)	Outlet (°C)
Return air type	Cooling	27	19.5	7	12
	Heating	21	—	60	—
Fresh air type	Cooling	35	28	7	12
	Heating	7	—	60	—

Model		G-1.5WD(I)(Y)/B-M	G-2WD(I)(Y)/B-M	G-2.5WD(I)(Y)/B-M	G-3WD(I)(Y)/B-M	G-4WD(I)(Y)/B-M
Air flow volume	m ³ /h	1500	2000	2500	3000	4000
	CFM	881	1174	1468	1761	2348
Capacity (4/6rows)	Cooling	8.40/12.03	11.03/13.50	14.10/18.42	17.11/21.53	22.50/28.78
	Heating	13.70/17.28	17.96/19.58	22.27/27.20	27.80/30.13	34.55/42.79
Water flow volume(4/6rows)	l/s	0.41/0.57	0.53/0.65	0.67/0.88	0.86/1.03	1.08/1.38
	GPM	1.80/2.51	2.33/2.86	2.95/3.87	3.78/4.53	4.75/6.07
Pressure drop(4/6rows)	kPa	5/7	7/9	8/11	11/13	13/16
	Ft-WG	1.67/2.34	2.34/3.01	2.67/3.67	3.67/4.34	4.34/5.34
Esp.range (optional)	kPa	40-300	40-300	50-350	50-350	65-350
	Ft-WG	0.16-1.2	0.16-1.2	0.2-1.4	0.2-1.4	0.26-1.4
Net weight(4/6rows)	kg	103/140	138/150	146/160	167/180	186/200
Gross weight(4/6rows)	kg	130/170	173/185	186/200	207/220	236/250
Sound pressure level	dB(A)	53	55	56	58	59
Connection pipe size	Water inlet & outlet	inch	DN40	DN40	DN40	DN40
	Condensed water drain	inch	DN25	DN25	DN25	DN25
Dimension (WxDxH)	Outline	mm	1100x1020x440	1100x1020x440	1400x1120x460	1600x1120x460
	Package	mm	1280x1130x595	1280x1130x595	1580x1230x615	1780x1230x615
Loading quantity	40'GP	—	54	54	44	44
	40'HQ	—	54	54	44	44

Note:
1. The specification is base on 100% return air. 100% fresh air model is also available for the same range.
2. The power input of motor is subjected to the external static pressure, please refer to the brand for the accurate value.

Model		G-5WD(I)(Y)/B-M	G-6WD(I)(Y)/B-M	G-7WD(I)(Y)/B-M	G-8WD(I)(Y)/B-M
Air flow volume	m ³ /h	5000	6000	7000	8000
	CFM	2935	3522	4109	4696
Capacity (4/6rows)	Cooling	28.69/36.19	33.47/43.52	39.04/53.22	44.62/59.70
	Heating	43.40/53.90	52.70/63.40	62.80/77.17	66.80/87.56
Water flow volume(4/6rows)	l/s	1.37/1.73	1.68/2.08	2.01/2.54	2.33/2.85
	GPM	6.03/7.61	7.39/9.15	8.84/11.18	10.25/12.54
Pressure drop(4/6rows)	kPa	16/19	15.8/20.8	17/21	18/22
	Ft-WG	5.34/6.35	5.28/6.95	5.68/7.01	6.01/7.35
Esp.range (optional)	kPa	65-350	75-400	75-400	90-450
	Ft-WG	0.26-1.4	0.3-1.6	0.3-1.6	0.36-1.8
Net weight(4/6rows)	kg	235/250	235/250	280/300	325/350
Gross weight(4/6rows)	kg	290/305	290/305	340/360	390/415
Sound pressure level	dB(A)	60	60	61	63
Connection pipe size	Water inlet & outlet	inch	DN50	DN50	DN50
	Condensed water drain	inch	DN25	DN25	DN25
Dimension (WxDxH)	Outline	mm	2100x1320x560	2100x1320x560	2300x1320x560
	Package	mm	2280x1430x715	2280x1430x715	2480x1430x715
Loading quantity	40'GP	—	18	18	18
	40'HQ	—	18	18	18

Note:
1. The specification is base on 100% return air. 100% fresh air model is also available for the same range.
2. The power input of motor is subjected to the external static pressure, please refer to the brand for the accurate value.

Air Handling Unit

Vertical Mounted Packaged

It is a kind of fan coil unit that is connected to the chillers to realize cooling/heating for civil or industrial use.



Washable filter



Quiet function



Multi fan speed



Compact design



Easier maintainability

- Anti-corrosion and cold bridges prevention thanks to sandwich structure case.
- Anti-corrosion thanks to painted double-faced electro-galvanized or hot-electro-galvanized metal case.
- 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.
- Easy maintenance thanks to detachable panel and adjustable motor base.

Nominal test condition (temperature)					
Item		DB(°C)	WB(°C)	Inlet(°C)	Outlet(°C)
Return air type	Cooling	27	19.5	7	12
	Heating	21	—	60	—
Fresh air type	Cooling	35	28	7	12
	Heating	7	—	60	—

Model			G-3(Y)-M	G-4(Y)-M	G-5(Y)-M	G-6(Y)-M	G-8(Y)-M	G-10(Y)-M	G-12(Y)-M
Air flow volume		m ³ /h	3000	4000	5000	6000	8000	10000	12000
		CFM	1761	2348	2935	3522	4696	5870	7044
Capacity (4/6rows)	Cooling	kW	18.2/26.5	23.5/35.1	32.2/44.1	36.4/52.5	48.5/66.1	60.1/84.1	72.1/96.5
	Heating	kW	28.2/35.3	40.2/46.5	50.2/58.4	58.2/68.9	75.8/88.8	92.3/112.3	112.8/133.5
Water flow volume(4/6rows)		l/s	0.87/1.27	1.13/1.68	1.54/2.10	1.74/2.51	2.32/3.16	2.87/4.02	3.44/4.61
		GPM	3.83/3.59	4.97/7.39	6.78/9.24	7.66/11.04	10.21/13.90	12.63/17.69	15.14/20.28
Pressure drop(4/6rows)		kPa	9.15/12.9	11.9/14.6	16.0/15.0	21.2/16.1	30.9/20.8	57.1/23.2	12.0/25.6
		Ft-WVG	3.06/4.31	3.97/4.88	5.34/5.01	7.08/5.38	10.32/6.95	19.07/7.75	4.01/8.55
Esp.range (optional)		kPa	50-300	65-350	65-350	75-350	90-450	90-500	100-500
		Ft-WVG	0.2-1.2	0.26-1.4	0.2-1.4	0.3-1.4	0.36-1.8	0.36-2.0	0.4-2.0
Net weight(4/6rows)		kg	215/240	260/295	305/330	340/375	390/435	450/485	503/535
Gross weight(4/6rows)		kg	250/275	295/335	345/360	420/455	430/475	475/535	563/585
Sound pressure level		dB(A)	56	56	57	58	59	59	61
Connection pipe size	Water inlet & outlet	inch	DN40	DN40	DN50	DN65	DN65	DN65	DN65
	Condensed water drain	inch	DN25	DN25	DN25	DN25	DN40	DN40	DN40
Dimension (WxDxH)	Outline	mm	1150x730x1300	1150x730x1400	1350x830x1400	1350x830x1600	175x830x1800	1950x830x1800	1950x830x1900
	Package	mm	1260x830x1420	1260x830x1520	1450x930x1520	1450x930x1720	1880x948x1920	2070x948x1920	2070x948x2020
Loading quantity	40'GP	—	22	22	16	14	12	12	12
	40'HQ	—	22	22	16	14	12	12	12

Model			G-14(Y)-M	G-16(Y)-M	G-18(Y)-M	G-20(Y)-M	G-22(Y)-M	G-25(Y)-M	G-30(Y)-M
Air flow volume		m ³ /h	14000	16000	18000	20000	22000	25000	30000
		CFM	8218	9392	10566	11740	12914	14675	17610
Capacity (4/6rows)	Cooling	kW	82.1/111.6	91.1/123.0	106.2/143.8	121.5/165.0	133.5/179.0	152.3/195.0	175.5/233.0
	Heating	kW	129.5/155.4	143.3/173.2	161.5/198.2	178.4/224.0	207.2/245.6	226.3/278.5	271.4/335
Water flow volume(4/6rows)		l/s	3.92/5.34	4.35/5.88	5.07/6.87	5.81/7.89	6.38/8.56	7.28/9.32	8.39/11.14
		GPM	17.25/23.50	19.14/25.87	22.31/30.23	25.56/34.72	28.07/37.66	32.03/41.01	36.92/49.02
Pressure drop(4/6rows)		kPa	22.1/28.0	23.0/32.1	25.0/35.2	25.0/38.5	20.0/32.1	29.0/36.0	23.0/38.0
		Ft-WVG	7.36/9.36	7.68/10.72	8.35/11.78	8.35/12.86	6.68/10.72	9.69/12.02	7.68/12.69
Esp.range (optional)		kPa	100-550	120-600	120-650	140-700	170-750	170-750	220-800
		Ft-WVG	0.4-2.2	0.48-2.4	0.48-2.6	0.56-2.8	0.68-3.0	0.68-3.0	0.44-3.2
Net weight(4/6rows)		kg	545/580	745/780	790/840	815/860	865/915	910/960	1015/1250
Gross weight(4/6rows)		kg	590/630	820/850	850/900	890/930	905/980	950/1000	1075/1310
Sound pressure level		dB(A)	63.5	63.5	65.5	67	68	68	71
Connection pipe size	Water inlet & outlet	inch	DN65	DN65	DN65	DN80	DN80	DN80	DN80
	Condensed water drain	inch	DN40	DN40	DN40	DN40	DN40	DN40	DN40
Dimension (WxDxH)	Outline	mm	2250x930x2100	2250x930x2100	2250x930x2100	1950x1440x1930	2250x1640x2030	2250x1640x2030	2250x1640x2330
	Package	mm	2338x1048x2230	2338x1048x2230	2338x1048x2230	2040x1500x2060	2340x1700x2160	2340x1700x2160	2340x1700x2460
Loading quantity	40'GP	—	8	8	8	7	5	5	4
	40'HQ	—	8	8	8	7	5	5	4

Note:
 1. The specification is base on 100% return air. 100% fresh air model is also available for the same range.
 2. The power input of motor is subjected to the external static pressure, please refer to the brand for the accurate value.

Air Handling Unit

Hydronic Air Handling Unit

It is a kind of air handling unit that the function section could be chosen customized according to various project requirement.



Washable filter



Quiet function



Compact design



Easier maintainability

- **Cold bridge preventing design:** The AHU adopts anodized aluminum alloy with high anti-corrosion performance, hard PVC as cold bridge, soft PVC as seal packing ring and beading, of which insulation performance is higher. Double skin panel with polyurethane foam insulation, which is lighter weight and lower heat conductivity factor.
- **Modular design:** All the function sections of the AHU are modular design, can be matched randomly to satisfy various of requirements.
- **High airtightness design:** The AHU adopts special rubber material as seal packing ring and buckle aluminum extruded sections, with extreme low air leakage rate.
- **Computer software selection:** AHU Selection software is available to make computer selection according to need.



Nominal test condition (temperature)				
Item	DB(°C)	WB(°C)	Inlet(°C)	Outlet(°C)
Cooling	27	19.5	7	12
Heating	21	—	60	—

Spec.	Section dimension		Airflow volume against air velocity					Cooling capacity under air return condition	Cooling capacity under fresh air condition	Air supply total pressure	
	GZK	W(mm)	H(mm)	Unit	2(m/s)	2.25(m/s)	2.5(m/s)	2.75(m/s)	3(m/s)	kW	kW
0804	850	450	m³/h	1241	1396	1552	1707	1862	6-14	17-28	400~1200
			CFM	729	820	911	1003	1094			
0806	850	650	m³/h	2172	2444	2715	2987	3258	10-24	29-50	400~1200
			CFM	1276	1435	1595	1754	1914			
0808	850	850	m³/h	3103	3491	3879	4267	4655	15-35	41-71	400~1200
			CFM	1823	2051	2278	2506	2734			
1008	1050	850	m³/h	4109	4622	5136	5650	6163	20-44	53-95	400~1200
			CFM	2414	2715	3017	3319	3620			
1208	1250	850	m³/h	5115	5754	6393	7033	7672	25-56	66-116	400~1200
			CFM	3004	3380	3756	4131	4507			
1608	1650	850	m³/h	7126	8017	8908	9799	10690	36-81	94-162	400~1200
			CFM	4186	4709	5233	5756	6279			
1010	1050	1050	m³/h	5342	6009	6677	7345	8012	25-57	69-124	400~1500
			CFM	3138	3530	3922	4314	4707			
1210	1250	1050	m³/h	6649	7480	8311	9143	9974	32-72	86-151	400~1500
			CFM	3906	4394	4882	5371	5859			
1610	1650	1050	m³/h	9186	10334	11482	12631	13779	46-104	122-209	400~1500
			CFM	5396	6070	6745	7419	8094			
2010	2050	1050	m³/h	12278	13813	15347	16882	18417	62-127	147-254	400~1500
			CFM	7212	8114	9015	9917	10819			
1212	1250	1250	m³/h	8936	10053	11170	12287	13404	41-93	111-195	400~1500
			CFM	5249	5906	6562	7218	7874			
1612	1650	1250	m³/h	12405	13956	15507	17057	18608	60-136	159-274	400~1500
			CFM	7287	8198	9109	10020	10931			
2012	2050	1250	m³/h	15750	17719	19687	21656	23625	80-164	191-329	400~1500
			CFM	9252	10408	11565	12721	13878			
1616	1650	1650	m³/h	16566	18637	20708	22779	24850	81-182	213-366	400~1500
			CFM	9731	10948	12164	13381	14597			
1816	1850	1650	m³/h	18907	21270	23634	25997	28361	99-210	222-422	400~1500
			CFM	11106	12495	13883	15271	16660			
2016	2050	1650	m³/h	21248	23904	26560	29216	31872	114-222	258-445	400~1500
			CFM	12481	14042	15602	17162	18722			
2020	2050	2050	m³/h	26133	29399	32665.86	35932	39199	139-273	317-547	400~2000
			CFM	15351	17270	19189	21107	23026			

Option Function Section

Name	Sketch	Name	Sketch	Name	Sketch	Name	Sketch
Air-suction section (fresh air/return air)		Primary filtrating section (plate type/bag type)		Cooling coil section		Electrode humidifying section	
Air-suction section (secondary air-returning section)		Primary filtrating section (plate type/bag type)		Electrical heating section		Contact humidifying section	
Mixing section		Sub high-efficiency filtrating section		Heating coil section		Dry steam humidifying section	
Complex section (combination sections of exhaust, air-returning and fresh air sections)		High-efficiency filtrating section		Steam coil section		Fan section	
Air equalizing section		Sound absorber section		Service section (maintenance section)		Turning section	
Blowing section							

Air Curtain

The air curtain adopts cross flow blower to generate high speed air flow downward, that be installed upward side of the entrance door or window, to isolate the indoor air from the outdoor air and reduce the loss of indoor cool air, also prevent the insects and dust from entering the indoor environment.



Washable filter



Quiet function



Compact design



Easier maintainability

- Optimized cross-flow fan and good performance motor are adopted.
- Micro processor controlling with high reliability and long service life.
- Anti-corrosion thanks to two-side painted electro-galvanized metal case.
- High quality galvanized steel casing with double-sided plastic spray processing, high anti-corrosion.
- Good strength structure provides powerful airflow.
- Integrated electric components, easy maintenance.
- High performance cross flow fan blade with 3D-optimized streamlined.



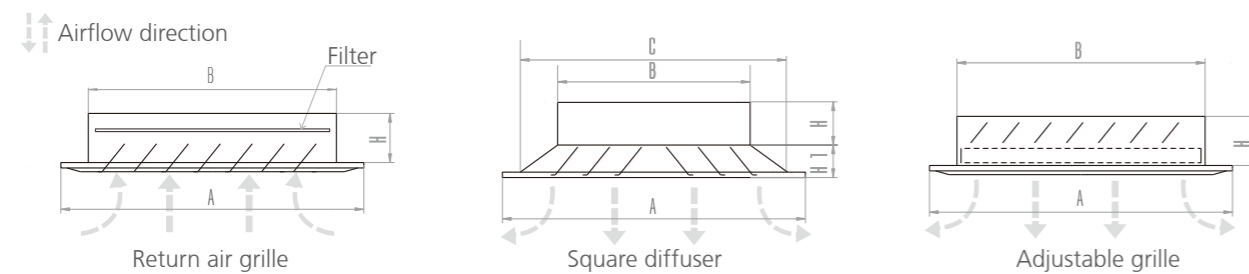
Model		FM-1.25-9-K	FM-1.25-12-K
Power supply	V/Hz	220-230/50	220-230/50
Power input	W	110	140
Air flow volume	m³/h	1200	1650
Sound pressure level (H/L)	dB (A)	59/56	61/56
Dimension (W×D×H)	Outline	mm	900×215×193
	Package	mm	1015×270×256
Net weight /gross weight	kg	16/18	20/22
Loading quantity	40'GP	—	848
	40'HQ	—	954

Diffuser

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



- **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	Throat B	A	H
FKSB6312	630x120	690x180	50
FKSB10012	1000x120	1040x160	50

Return air grille			
Model	Throat B	A	H
FKDB45	375x375	448x448	60
FKDB60	517x517	598x598	60
FKDB6325	630x253	685x308	28
FKDB10025	1005x260	1034x290	30

Square diffuser					
Model	Throat B	A	C	H	H1
FKFS45	270x270	448x448	φ365	25	25
FKFS60	368x368	598x598	φ485	27	34

Control System Lineup

Control system		Product series	Concealed ceiling type	Cesette type 4-way	Floor ceiling type	Wall mounted type	Air curtain
Wireless remote controller	YB1FA					●	
	ZY611						●
	Y512			●	●		
Wired remote controller	Z4E351B			●		●	
	Z5N151						
Digital thermostat	Luxury		●				
	WK-110PAO		●				
Long-distance monitoring software	Gree AC Eudemon 2009*	FE30-00/A (M)		●		●	
BMS accessories	Communication module (modbus)	ME30-17/E2 (M)		●		●	
	Interface of the main board	BMS					
Other modules	Optoelectronic isolated converter	RS232-RS422V485		●		●	
	Optoelectronic isolated signal multiplier	RS-422V485		●		●	

Note:
● means standard, ● means optional.
* If long-distance monitoring software Gree Eudemon 2009 is selected, the communication module ME30-17/E2(M) shall be selected also.
The quantity of the module should be confirmed according to the quantity of the outdoor unit.

AIR TO WATER

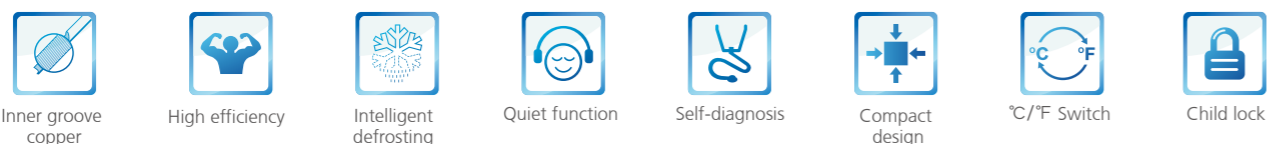
CIRCULATING HEAT PUMP WATER HEATER
VERSATI (AIR TO WATER HEAT PUMP)



Circulating Heat Pump Water heater

R134a

It is a kind of air source heat pump that could supply hot water for residential or civil use.



- Optimized fan type that greatly improve the efficiency and lower the noise.
- 70°C high temperature hot water supply thanks to R134a refrigerant adopted.



Item	Nominal operating condition (temperature)				Operation range (temperature)
	Outdoor condition		Water side condition		Outdoor condition
	DB(°C)	WB(°C)	Initial water(°C)	Final water(°C)	
Heating	20	15	15	55	-15~43

Outdoor Unit

Model		GRS-C3.8/NbA-K	GRS-C5.0/NbA-K
Rated water heating capacity	kW	3.8	5
Rated water supply	L/h	82	108
COP	W/W	3.72	3.70
Water temperature range	°C	35~70	35~70
Power supply	Ph/V/Hz	1/220-240/50	1/220-240/50
Power input	Water heating kW	1.02	1.35
Rated power input	Water heating kW	1.75	2.43
Sound pressure level	dB(A)	50	52
Dimension (WxDxH)	Outline mm	762x256x750	762x256x750
	Package mm	881x363x815	881x363x815
Net weight/Gross weight	Kg	55/61	60/66
Loading quantity	40'GP	160	160
	40'HQ	240	240

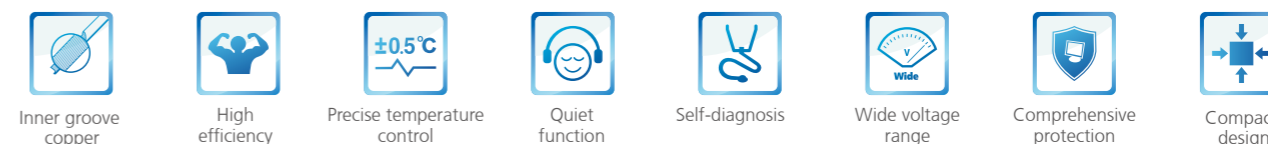
Water Tank

Model		SXD150LC-K	SXD200LC-K	SXD250LC-K	SXD300LC-K
Volume	L	150	200	250	300
Auxiliary electrical heater power input	kW	1.5	1.5	1.5	1.5
Dimension	Diameter mm	Φ520	Φ540	Φ540	Φ620
	Height mm	1350	1595	1945	1620
	Package (WxDxH) mm	1378x608x625	1623x628x645	1973x628x645	1648x708x725
Water pipes diameter	Cool water inlet inch	Φ1/2	Φ1/2	Φ1/2	Φ1/2
	Hot water outlet inch	Φ1/2	Φ1/2	Φ1/2	Φ1/2
Net weight/Gross weight	kg	45/52	57/66	68/77	71/81
Loading quantity	40'GP	84	78	54	63
	40'HQ	111	99	71	69

Versati

R410A

It is a kind of DC inverter multifunctional air to water heat pump that could not only supply domestic hot water, but also realize cooling or heating for residential use.



- Twin rotary DC inverter compressor creates comfortable living circumstance and saves energy.
- The electronic expansion valve guarantees that the system made adjustments automatically according to the changes of the circumstance and water temperature.
- Smart dual-temperature detection control technology.
- The disinfection function at a high temperature up to 70°C can prevent the growth of bacteria and ensure sanitary water, creating a wholesome life for the use.
- Isolation of water and electricity ensures safe operation.
- Dual-coil design makes it convenient to join solar panel or boiler.
- Five-mode operation: heating, cooling, water heating, heating and water heating, cooling and water heating.



Item	Operation range (temperature)		
	Nominal operating condition		Outdoor condition
	DB(°C)	WB(°C)	
Cooling	35	24	10~48
Heating	7	6	-20~35
Water heating	7	6	-20~45

Outdoor Unit

Model			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)
Capacity*1	Cooling*3	kW	5.5	9.0	10.5	14.0	15.0	15.5
	Heating*4	kW	6.2	8.5	10.0	12.0	13.5	16.0
Power Input*1	Cooling*3	kW	1.6	2.5	3.14	3.68	4.29	4.63
	Heating*4	kW	1.5	2.1	2.5	2.79	3.21	3.95
EER/COP*1		W/W	3.40/4.10	3.60/4.00	3.35/4.00	3.80/4.30	3.50/4.20	3.35/4.05
Capacity*2	Cooling*5	kW	4	6.5	8	10	11	11.5
	Heating*6	kW	5.5	8	9	11.5	12.5	14
Power Input*2	Cooling*5	kW	1.54	2.50	3.08	3.45	3.93	4.60
	Heating*6	kW	1.83	2.65	2.9	3.38	3.73	4.59
EER/COP*2		W/W	2.60/3.00	2.60/3.00	2.60/3.10	2.90/3.40	2.80/3.35	2.50/3.05
Refrigerant charge volume		g	1700	2000	2000	3300	3300	3300
Sanitary water temperature		°C	40-80	40-80	40-80	40-80	40-80	40-80
Sound pressure level	Cooling	dB(A)	57	57	57	57	57	60
	Heating	dB(A)	59	59	59	59	59	62
Connecting pipe	Gas	inch	φ1/2	φ5/8	φ5/8	φ5/8	φ5/8	φ5/8
	Liquid	inch	φ1/4	φ3/8	φ3/8	φ3/8	φ3/8	φ3/8
Dimensions (WxDxH)	Outline	mm	921x427x791	921x427x791	921x427x791	950x412x1253	950x412x1253	950x412x1253
	Packaged	mm	1065x485x840	1065x485x840	1065x485x840	1110x450x1385	1110x450x1385	1110x450x1385
Net weight/Gross weight		Kg	66/71	69/74	69/74	99/108	99/108	99/108
Loading quantity	40'GP/40'HQ	-	96/144	96/144	96/144	52/52	52/52	52/52

Model			GRS-CQ12Pd/Na-M(O)	GRS-CQ14Pd/Na-M(O)	GRS-CQ16Pd/Na-M(O)
Capacity*1	Cooling*3	kW	14	15	15.5
	Heating*4	kW	12	14	15
Power Input*1	Cooling*3	kW	3.68	4.29	4.43
	Heating*4	kW	2.67	3.33	3.70
EER/COP*1		W/W	3.80/4.50	3.50/4.20	3.50/4.00
Capacity*2	Cooling*5	kW	10	10.5	11
	Heating*6	kW	11	12	14
Power Input*2	Cooling*5	kW	3.45	3.75	4.07
	Heating*6	kW	3.24	3.58	4.38
EER/COP*2		W/W	2.90/3.40	2.80/3.35	2.70/3.20
Refrigerant charge volume		g	3500	3500	3500
Sanitary water temperature		°C	40-80	40-80	40-80
Sound pressure level	Cooling	dB(A)	57	57	60
	Heating	dB(A)	59	59	62
Connecting pipe	Gas	inch	φ5/8	φ5/8	φ5/8
	Liquid	inch	φ3/8	φ3/8	φ3/8
Dimensions (WxDxH)	Outline	mm	950x412x1253	950x412x1253	950x412x1253
	Packaged	mm	1110x450x1385	1110x450x1385	1110x450x1385
Net weight/Gross weight		Kg	99/108	99/108	99/108
Loading quantity	40'GP/40'HQ	-	52/52	52/52	52/52

- Note:
- Capacities and power inputs are based on the following conditions:
 - Cooling conditions:
 - Indoor Water Temperature 23°C/18°C.
 - Outdoor Air Temperature 23°CDB/24°CWB.
 - Heating conditions:
 - Indoor Water Temperature 30°C/35°C.
 - Outdoor Air Temperature 7°CDB/6°CWB.
 - Standing piping length 7.5m.
 - Capacities and power inputs are based on the following conditions:
 - Cooling conditions:
 - Indoor Water Temperature 12°C/7°C.
 - Outdoor Air Temperature 35°CDB/24°CWB.
 - Heating conditions:
 - Indoor Water Temperature 40°C/45°C.
 - Outdoor Air Temperature 7°CDB/6°CWB.
 - Standing piping length 7.5m.
 - For floor cooling.
 - For floor heating.
 - For fan coil unit.
 - For fan coil or radiator.

Indoor Hydro Unit

Model			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)
Power Supply		V/Ph/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Normal input		W	3200	6200	6200	6200	6200	6200
Leaving water temperature	Cooling*1	°C	7~25	7~25	7~25	7~25	7~25	7~25
	Cooling*2	°C	18~25	18~25	18~25	18~25	18~25	18~25
	Heating*1	°C	25~55(High temperature cycle)					
	Heating*3	°C	25~45(Low temperature cycle)					
Pump	Type	-	Water-cooled	Water-cooled	Water-cooled	Water-cooled	Water-cooled	Water-cooled
	Nr. of speed	-	3	3	3	3	3	3
	Power input	W	200	200	200	200	200	200
	Water flow limit	LPM	12	12	12	12	12	12
Electric Heater	Operation	-	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic
	Steps	-	2	2	2	2	2	2
	Capacity	KW	3	6	6	6	6	6
	Combination	KW	1.5+1.5	3+3	3+3	3+3	3+3	3+3
	Power input	Ph/V/Hz	1/230/50	1/230/50	1/230/50	1/230/50	1/230/50	1/230/50
Sound pressure level		dB(A)	31	31	31	31	31	31
Connecting pipe	Gas	inch	φ1/2	φ5/8	φ5/8	φ5/8	φ5/8	φ5/8
	Liquid	inch	φ1/4	φ3/8	φ3/8	φ3/8	φ3/8	φ3/8
Dimensions (WxDxH)	Outline	mm	900x500x324	900x500x324	900x500x324	900x500x324	900x500x324	900x500x324
	Packaged	mm	1040x605x380	1040x605x380	1040x605x380	1040x605x380	1040x605x380	1040x605x380
Net weight/Gross weight		Kg	52/62	52/62	52/62	53/63	53/63	53/63
Loading/quantity	40'GP/40'HQ	-	205/246	205/246	205/246	205/246	205/246	205/246

Model		Indoor unit	GRS-CQ12Pd/Na-M(I)	GRS-CQ14Pd/Na-M(I)	GRS-CQ16Pd/Na-M(I)
Power Supply		V/Ph/Hz	3/380-415/50	3/380-415/50	3/380-415/50
Normal input		W	6200	6200	6200
Leaving water temperature	Cooling*1	°C	7~25	7~25	7~25
	Cooling*2	°C	18~25	18~25	18~25
	Heating*1	°C	25~55(High temperature cycle)		
	Heating*3	°C	25~45(Low temperature cycle)		
Pump	Type	-	Water-cooled	Water-cooled	Water-cooled
	Nr. of speed	-	3	3	3
	Power input	W	200	200	200
	Water flow limit	LPM	12	12	12
Electric Heater	Operation	-	Automatic	Automatic	Automatic
	Steps	-	1	1	1
	Capacity	KW	6	6	6
	Combination	KW	6	6	6
	Power input	Ph/V/Hz	3/400/50	3/400/50	3/400/50
Sound pressure level		dB(A)	31	31	31
Connecting pipe	Gas	inch	φ5/8	φ5/8	φ5/8
	Liquid	inch	φ3/8	φ3/8	φ3/8
Dimensions (WxDxH)	Outline	mm	900x500x324	900x500x324	900x500x324
	Packaged	mm	1040x605x380	1040x605x380	1040x605x380
Net weight/Gross weight		Kg	53/63	53/63	53/63
Loading/quantity	40'GP/40'HQ	-	205/246	205/246	205/246

- Note:
- *1 for fan coil unit; **2 for floor cooling; **3 for floor heating

Water Tank

Model		SXVD200LCJ/A-K	SXVD200LCJ2/A-K	SXVD300LCJ/A-K	SXVD300LCJ2/A-K
Water tank volume	L	200	200	300	300
Power supply	Ph/V/Hz	1/230/50	1/230/50	1/230/50	1/230/50
Electric heater power	W	3000	3000	3000	3000
Outer diameter of pipe	Cool water inlet	inch	φ1/2	φ1/2	φ1/2
	Hot water outlet	inch	φ1/2	φ1/2	φ1/2
Dimension	DiameterxH	mm	φ540X1595	φ540X1595	φ620X1620
	WxDxH	mm	1620x625x630	1620x625x630	1645x705x710
Net weight/Gross weight	kg	68/77	71/80	82/92	87/97
Loading quantity	40'GP/40'HQ	-	75/100	75/100	63/63

Model		SXVD200LCJ/A-M	SXVD200LCJ2/A-M	SXVD300LCJ/A-M	SXVD300LCJ2/A-M
Water tank volume	L	200	200	300	300
Power supply	Ph/V/Hz	3/400/50	3/400/50	3/400/50	3/400/50
Electric heater power	W	3000	3000	3000	3000
Outer diameter of pipe	Cool water inlet	inch	φ1/2	φ1/2	φ1/2
	Hot water outlet	inch	φ1/2	φ1/2	φ1/2
Dimension	DiameterxH	mm	φ540X1595	φ540X1595	φ620X1620
	WxDxH	mm	1620x625x630	1620x625x630	1645x705x710
Net weight/Gross weight	kg	68/77	71/80	82/92	87/97
Loading quantity	40'GP/40'HQ	-	75/100	75/100	63/63

SPECIALIZED AIR CONDITIONER

MARINE AIR CONDITIONER
CLOSE CONTROL AIR CONDITIONER

Marine Air Conditioner



It is a kind of sea water source AC that is widely used in yachts and boats.



- Golden fin condenser
- Inner groove copper
- Washable filter
- Quiet function
- Self-diagnosis
- Memory function
- Compact design
- °C/°F Switch

- 360 degree air blowing.
- Outlay electric box for easy installation & maintenance.
- Low start-up current thanks to power delay control design.
- Forced operation available for emergency situation.
- LCD display of operation status.
- Highly anti-corrosion special spray processing on the complete unit.
- Nickel-Copper tube-in-tube heat exchanger for sea water side.
- All-copper fined tube heat exchanger for air side.
- Only one PCB for the entire control and minimize cable connections, with higher reliability and also easier maintenance.
- Universal for both 50Hz and 60Hz.



Model	Hump		CYR5/NaB-T	CYR9/NaB-T	CYR12/NaB-T	CYR16/NaB-T
Capacity	Cooling	W	1450	2350	3400	3750
		Btu/h	4950	8000	11600	12800
	Heating	W	1720	2550	3500	4000
		Btu/h	5870	8700	11900	13650
EER/COP		W/W	2.90/3.58	2.97/3.22	3.50/3.36	3.57/3.80
Power supply		Ph/V/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Power input	Cooling	kW	0.50	0.79	0.97	1.05
	Heating	kW	0.48	0.79	1.04	1.05
Input current	Cooling	A	2.9	4.2	5.1	5.7
	Heating	A	2.8	4.2	5.3	5.7
Sound pressure level		dB(A)	58	58	58	58
Refrigerant charge volume		kg	0.35	0.34	0.55	0.66
Air flow volume (H/M/L)		m³/h	320	470	466	600
		CFM	188	276	274	353
Dimension (WxDxH)	Outline	mm	309x440x324	411x457x324	409x458x370	478x788x365
	Package	mm	547x540x404	672x617x303	647x568x450	701x607x445
Net weight/Gross weight		Kg	25/30	28/33	34/39	35/40.5
Fan motor supply air outlet diameter		inch	3.07	3.07	2.99	3.61
Condenser pipe diameter		inch	0.87	0.87	0.87	0.87
Loading quantity	40'GP	-	552	576	312	345
	40'HQ	-	644	648	390	414

Close Control Air Conditioner



It is a kind of air cooled split AC that is widely used in equipment room, machinery room, etc. to precisely control the temperature and humidity.



- Energy saving function
- Self-diagnosis
- Modular structure
- Easier maintainability
- Compact design

- Rapid and safe start-up.
- Flexible installation Several air outlet directions to meet different installation requirements.
- Modular design, up to 4 units could be freely integrated to get a max. capacity of 160kW.

Model	Normal		JKFD5DC/Na-E	JKFD5DQS/Na-E	JKFD7DC/Na-E	JKFD7DQS/Na-E	JKFD7C/Na-M	JKFD7QS/Na-M	
	Modular		JKFD5DCM/Na-E	JKFD5DQSM/Na-E	JKFD7DCM/Na-E	JKFD7DQSM/Na-E	JKFD7CM/Na-M	JKFD7QSM/Na-M	
Power supply		Ph/V/Hz	1/220/50		1/220/50		3/380/50		
Cooling capacity (total/sensible)	22°C/50%	kW	4.9/4.4		6.7/6.1		6.5/5.9		
	23°C/17°C	kW	5.1/4.3		7.2/6.4		7.1/6.3		
	24°C/45%	kW	4.8/4.4		7.3/6.7		7.0/6.4		
	26°C/50%	kW	5.3/4.5		7.6/6.8		7.4/6.6		
Rated input	Cooling/Heating	kW	2.05/3.20		2.80/3.60		2.30/3.40		
Rated current	Cooling/Heating	A	9.32/14.90		12.73/16.40		5.69/5.40		
Heating capacity		kW	3		3		3		
Humidifying	Rated capacity	kg/h	2		2		2		
	Power input	kW	1.5		1.5		1.5		
Range of temp. controlling and precision		°C	17~28°C±1°C		17~28°C±1°C		17~28°C±1°C		
Range of humidity and precision		%	40~60%±5%		40~60%±5%		40~60%±5%		
ESP		Pa	0	15	0	15	0	15	
Indoor units	Model	Normal	JKFD5DC/Na-E(I)	JKFD5DQS/Na-E(I)	JKFD7DC/Na-E(I)	JKFD7DQS/Na-E(I)	JKFD7C/Na-M(I)	JKFD7QS/Na-M(I)	
		Modular	JKFD5DCM/Na-E(I)	JKFD5DQSM/Na-E(I)	JKFD7DCM/Na-E(I)	JKFD7DQSM/Na-E(I)	JKFD7CM/Na-M(I)	JKFD7QSM/Na-M(I)	
	Air flow volume	m³/h	1850	1900	2000	2200	2000	2200	
	Sound pressure level	dB(A)	61	62	61	62	61	62	
	Dimension (WxDxH)	Outline	mm	800x690x2250	800x690x1950	800x690x2250	800x690x1950	800x690x2250	800x690x1950
		Package	mm	900x790x2370	900x790x2100	900x790x2370	900x790x2100	900x790x2370	900x790x2100
Net weight/gross weight		kg	200/210	175/185	235/245	215/225	235/245	215/225	
Outdoor units	Model		JKFD5/Na-E(O)	JKFD5/Na-E(O)	JKFD7/Na-E(O)	JKFD7/Na-E(O)	JKFD7-E(O)	JKFD7-E(O)	
		Quantity	Set	1	1	1	1	1	
	Air flow volume	m³/h	6200		6200		6200		
	Sound pressure level	dB(A)	66		66		66		
	Dimension (WxDxH)	Outline	mm	890x980x1000		890x980x1000		890x980x1000	
		Package	mm	1060x930x560		1060x930x560		1060x930x560	
Net weight/gross weight		kg	60/80		60/80		60/80		
Connecting pipe	Liquid/Gas	mm	9.52/12		9.52/12		9.52/12		
	Method of connection		Flared-fitting Joint		Flared-fitting Joint		Flared-fitting Joint		
Loading quantity	40'GP/40'HQ	—	0/20	20/20	0/20	20/20	0/20	20/20	

Notes:
 1. The cooling capacity was tested when the outdoor temperature was as follows: Dry-bulb temperature was 35°C; Wet-bulb temperature was 24°C.
 2. The noise value was tested in the semi-anechoic chamber but the actual value will be a little higher for the change of ambient temperature.
 3. The temperature range of running environment is between -35°C~48°C.

SPECIALIZED AIR CONDITIONER

Model	Normal		JKFD13C/Na-M	JKFD13QS/Na-M	JKFD13SX/Na-M	JKFD19C/Na-M	JKFD19QS/Na-M	JKFD19SX2/Na-M	
	Modular		JKFD13CM/Na-M	JKFD13QSM/Na-M	JKFD13SXM/Na-M	JKFD19CM/Na-M	JKFD19QSM/Na-M	JKFD19SX2M/Na-M	
Power supply		PhV/Hz	3/380/50			3/380/50			
Cooling capacity (total/sensible)	22°C/ 50%	kW	13.9/12.6			18.0/17.0			
	23°C/17°C	kW	14.0/12.3			19.0/17.4			
	24°C/45%	kW	14.1/13.4			18.8/17.8			
	26°C/50%	kW	15.7/14.1			20.3/18.9			
Rated input	Cooling/Heating	kW	6.00/7.10			7.9/10.5			
Rated current	Cooling/Heating	A	11.51/10.80			11.97/15.91			
Heating capacity		kW	6			9			
Humidifying	Rated capacity	kg/h	4			4			
	Power input	kW	3			3			
Range of temp. controlling and precision		°C	17~28°C±1°C			17~28°C±1°C			
Range of humidity and precision		%	40~60%±5%			40~60%±5%			
ESP		Pa	0	50	50	0	100	100	
Indoor units	Model	Normal	JKFD13C/Na-M(I)	JKFD13QS/Na-M(I)	JKFD13SX/Na-M(I)	JKFD19C/Na-M(I)	JKFD19QS/Na-M(I)	JKFD19SX2/Na-M(I)	
		Modular	JKFD13CM/Na-M(I)	JKFD13QSM/Na-M(I)	JKFD13SXM/Na-M(I)	JKFD19CM/Na-M(I)	JKFD19QSM/Na-M(I)	JKFD19SX2M/Na-M(I)	
	Air flow volume	m³/h	4900	4800	4500	7200	6600	6600	
	Sound pressure level	dB(A)	62	64	64	65	67	67	
	Dimension (WxDxH)	Outline	mm	1100x810x2250	1100x810x1950	1100x810x1950	1380x810x2250	1380x810x1950	1380x810x1950
		Package	mm	1200x910x2370	1200x910x2100	1200x910x2070	1480x910x2370	1480x910x2100	1480x910x2070
Net weight/gross weight		kg	355/370	325/340	325/340	435/450	395/410	430/445	
Outdoor units	Model	Normal	JKFD13/Na-M(O)	JKFD13/Na-M(O)	JKFD13/Na-M(O)	JKFD19/Na-M(O)	JKFD19/Na-M(O)	JKFD19/Na-M(O)	
		Modular	JKFD13CM/Na-M(O)	JKFD13QSM/Na-M(O)	JKFD13SXM/Na-M(O)	JKFD19CM/Na-M(O)	JKFD19QSM/Na-M(O)	JKFD19SX2M/Na-M(O)	
	Quantity	Set	1			1			
	Air flow volume	m³/h	9800			11900			
	Sound pressure level	dB(A)	67			68			
	Dimension (WxDxH)	Outline	mm	1080x1180x960			1080x1180x1040		
Package		mm	1265x1135x540			1265x1135x615			
Net weight/gross weight		kg	100/115			100/115			
Connecting pipe	Liquid/Gas	mm	12/16			16/19			
	Method of connection		Flared-fitting Joint			Flared-fitting Joint			
Loading quantity	40'GP/40'HQ		0/14	14/14	14/14	0/11	11/11	11/11	

Model	Normal		JKFD40C/Na-M	JKFD40QS/Na-M	
	Modular		JKFD40CM/Na-M	JKFD40QSM/Na-M	
Power supply		PhV/Hz	3/380/50		
Cooling capacity (total/sensible)	22°C/ 50%	kW	39.4/36.0		
	23°C/17°C	kW	40.3/35.4		
	24°C/45%	kW	39.2/37.5		
	26°C/50%	kW	42.5/38.0		
Rated input	Cooling/Heating	kW	16.50/21.00		
Rated current	Cooling/Heating	A	34.00/38.00		
Heating capacity		kW	18		
Humidifying	Rated capacity	kg/h	8		
	Power input	kW	6		
Range of temp. controlling and precision		°C	17~28°C±1°C		
Range of humidity and precision		%	40~60%±5%		
ESP		Pa	0	100	
Indoor units	Model	Normal	JKFD40C/Na-M(I)	JKFD40QS/Na-M(I)	
		Modular	JKFD40CM/Na-M(I)	JKFD40QSM/Na-M(I)	
	Air flow volume	m³/h	13000	12500	
	Sound pressure level	dB(A)	68	70	
	Dimension (WxDxH)	Outline	mm	2480x810x2250	2480x810x1950
		Package	mm	2560x910x2480	2560x910x2180
Net weight/gross weight		kg	755/795	690/730	
Outdoor units	Model	Normal	JKFD40/Na-M(O)	JKFD40/Na-M(O)	
		Modular	JKFD40CM/Na-M(O)	JKFD40QSM/Na-M(O)	
	Quantity	Set	1		
	Air flow volume	m³/h	23800		
	Sound pressure level	dB(A)	68		
	Dimension (WxDxH)	Outline	mm	2500x1150x1250	
Package		mm	2600x1280x1410		
Net weight/gross weight		kg	240/280		
Connecting pipe	Liquid/Gas	mm	19/22		
	Method of connection		Soldering Joint		
Loading quantity	40'GP/40'HQ		0/4	4/4	

Model	Normal		JKFD25C2/Na-M	JKFD25QS2/Na-M	JKFD25SX2/Na-M	JKFD40C/Na-M	JKFD40QS2/Na-M	JKFD40SX2/Na-M	
	Modular		JKFD25C2M/Na-M	JKFD25QS2M/Na-M	JKFD25SX2M/Na-M	JKFD40CM/Na-M	JKFD40QS2M/Na-M	JKFD40SX2M/Na-M	
Power supply		PhV/Hz	3/380/50			3/380/50			
Cooling capacity (total/sensible)	22°C/ 50%	kW	26.5/23.8			39.4/36.0			
	23°C/17°C	kW	27.0/23.0			40.3/35.4			
	24°C/45%	kW	27.5/25.4			39.2/37.5			
	26°C/50%	kW	28.8/25.3			42.5/38.0			
Rated input	Cooling/Heating	kW	11.2/13.80			16.5/21.00			
Rated current	Cooling/Heating	A	26.30/21.90			34.00/38.00			
Heating capacity		kW	12			18			
Humidifying	Rated capacity	kg/h	8			8			
	Power input	kW	6			6			
Range of temp. controlling and precision		°C	17~28°C±1°C			17~28°C±1°C			
Range of humidity and precision		%	40~60%±5%			40~60%±5%			
ESP		Pa	0	100	100	0	100	100	
Indoor units	Model	Normal	JKFD25C2/Na-M(I)	JKFD25QS2/Na-M(I)	JKFD25SX2/Na-M(I)	JKFD40C2/Na-M(I)	JKFD40QS2/Na-M(I)	JKFD40SX2/Na-M(I)	
		Modular	JKFD25C2M/Na-M(I)	JKFD25QS2M/Na-M(I)	JKFD25SX2M/Na-M(I)	JKFD40C2M/Na-M(I)	JKFD40QS2M/Na-M(I)	JKFD40SX2M/Na-M(I)	
	Air flow volume	m³/h	7800	7500	7500	13000	12500	12500	
	Sound pressure level	dB(A)	66	68	68	68	70	70	
	Dimension (WxDxH)	Outline	mm	1900x810x2250	1900x810x1950	1900x810x1950	2480x810x2250	2480x810x1950	2480x810x1950
		Package	mm	2000x910x2370	2000x910x2100	2000x910x2100	2580x910x2400	2580x910x2130	2580x910x2100
Net weight/gross weight		kg	585/600	535/530	535/530	725/755	660/690	660/690	
Outdoor units	Model	Normal	JKFD13/NaA-M(O)	JKFD13/NaA-M(O)	JKFD13/NaA-M(O)	JKFD19/NaA-M(O)	JKFD19/NaA-M(O)	JKFD19/NaA-M(O)	
		Modular	JKFD13CM/NaA-M(O)	JKFD13QSM/NaA-M(O)	JKFD13SXM/NaA-M(O)	JKFD19CM/NaA-M(O)	JKFD19QSM/NaA-M(O)	JKFD19SX2M/NaA-M(O)	
	Quantity	Set	2			2			
	Air flow volume	m³/h	9800			11900			
	Sound pressure level	dB(A)	67			68			
	Dimension (WxDxH)	Outline	mm	1080x1180x960			1080x1180x1040		
Package		mm	1265x1135x540			1265x1135x615			
Net weight/gross weight		kg	100/115			100/115			
Connecting pipe	Liquid/Gas	mm	12/16			16/19			
	Method of connection		Flared-fitting Joint			Flared-fitting Joint			
Loading quantity	40'GP/40'HQ		0/7	7/7	7/7	0/6	6/6	6/6	

- Notes:
- The cooling capacity was tested when the outdoor temperature was as follows: Dry-bulb temperature was 35°C; Wet-bulb temperature was 24°C.
 - The noise value was tested in the semi-anechoic chamber but the actual value will be a little higher for the change of ambient temperature.
 - The temperature range of running environment is between -35°C~48°C.

