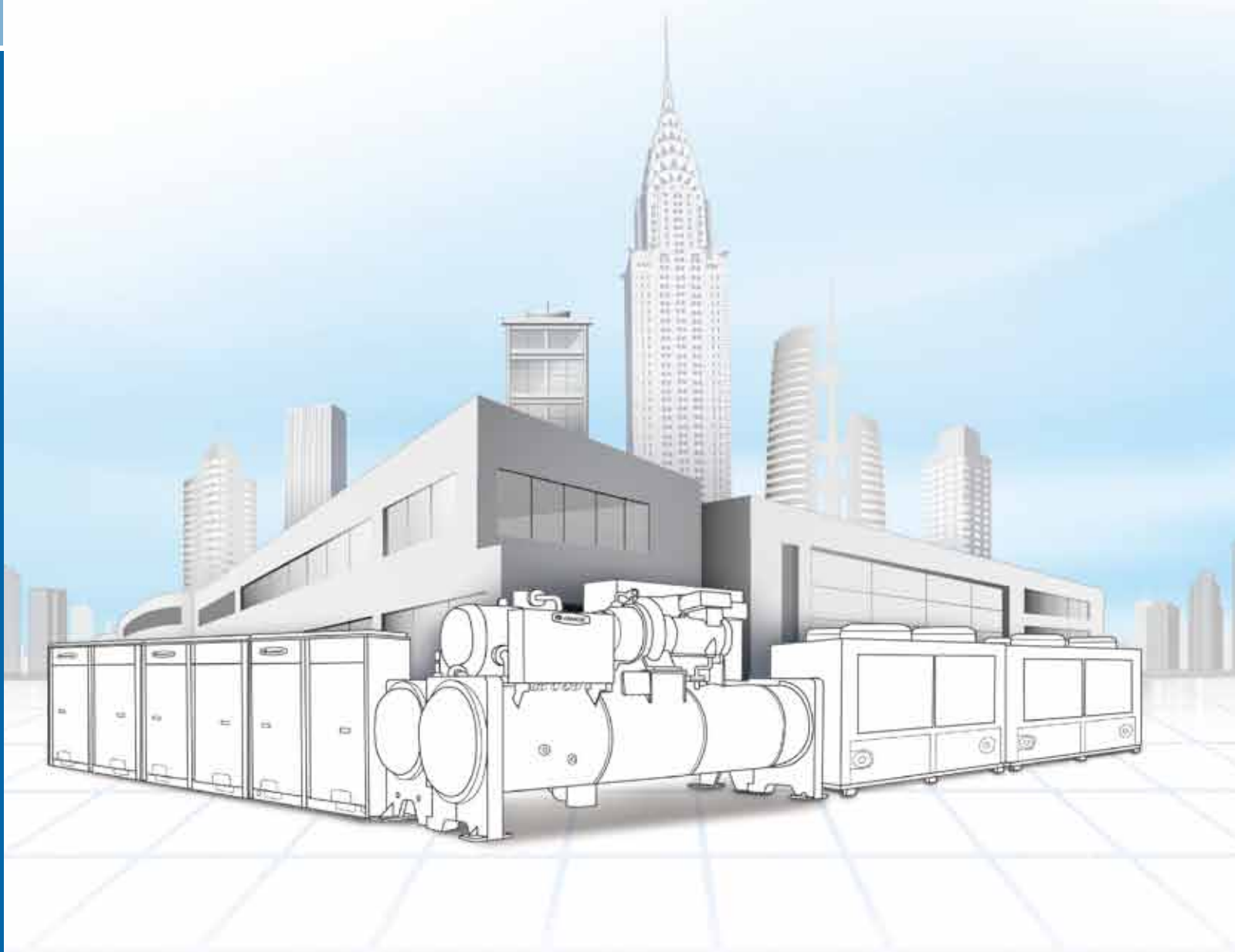




GREE 2014

COMMERCIAL AIR CONDITIONERS T1, 50Hz, R410A/R134a



CAC | T1
50Hz
R410A/R134a

2014



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GC-1309-1

Distributor information



No. **1** air conditioner manufacturer



9 production bases



1 in **3** air conditioners sold worldwide is made by Gree



60,000,000 sets RAC annual production capacity



5,500,000 sets CAC annual production capacity

مكيفر غازى
 مكيف الهواء
 에어컨
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 에어컨
 空调 climatiseur
 acondicionador de aire
 ar condicionado

250,000,000 users

CONTENTS

05 LIGHT COMMERCIAL AC

- | U-Match
- | Duct Split Unit
- | Floor Ceiling Split Unit

33 MULTI-VRF

- | Free Match III
- | Super Free-Match
- | All DC Inverter VRF (GMV 5)
- | Inverter Series (GMV IV)
- | HOME GMV
- | GMV HR-II
- | Fresh Air Series
- | Energy Recovery Ventilation(ERV)
- | Control System Lineup

85 3 IN 1

- | Versati
- | Versati II

93 SCROLL CHILLER

- | Mini Chiller
- | Modular Air-cooled Scroll Chiller

99 SCREW CHILLER

- | Modular Air-cooled Screw Chiller
- | Water-cooled Screw Chiller

106 CENTRIFUGAL CHILLER

- | Centrifugal Chiller

111 TERMINAL

- | Fan Coil Unit
- | Air Handling Unit
- | Air Curtain
- | Diffuser

131 SPECIALIZED AC

- | Marine Air Conditioner
- | Elevator Air Conditioner
- | Close Control Air Conditioner

139 LONG-DISTANCE CONTROL SYSTEM

141 PROJECTS REFERENCE

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.



Slave and master wired controller

One indoor unit can be connected with two wired controllers to realize controlling of the same indoor unit from different control points.



Long connection pipe design

The total length of connection pipe reaches 1000m, which greatly improves the project flexibility of the unit.

High Efficiency & Energy Saving



High efficiency

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



Intelligent defrosting

It performs defrosting intelligently when necessary, thus improving heating efficiency and saving energy.



Energy saving function

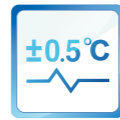
When this function is activated, the temperature setting is only in limited range, so as to save energy.



All DC inverter technology

All motors adopt DC inverter technology, which greatly improves energy efficiency.

Comfortable & Healthy



Precise temperature control

The temperature fluctuation can be controlled within $\pm 0.5^{\circ}\text{C}$.



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 for maintenance and component replacement.



Auto addressing technology

The new generation of indoor unit applies auto addressing technology, which greatly reduces project debugging time and error rate.

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 start when voltage is 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

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 a wide range of voltage, greatly reducing the impact of voltage fluctuation.



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



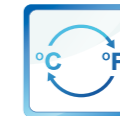
24 hour timer

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



Weekly timer

Unit can be set to 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

It avoids child's wrong operation on the remote controller.



Key-card control

The Key-card control function is specially designed for the hotel rooms. By removing the key-card the air conditioner, it can be 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.



Human engineering operation

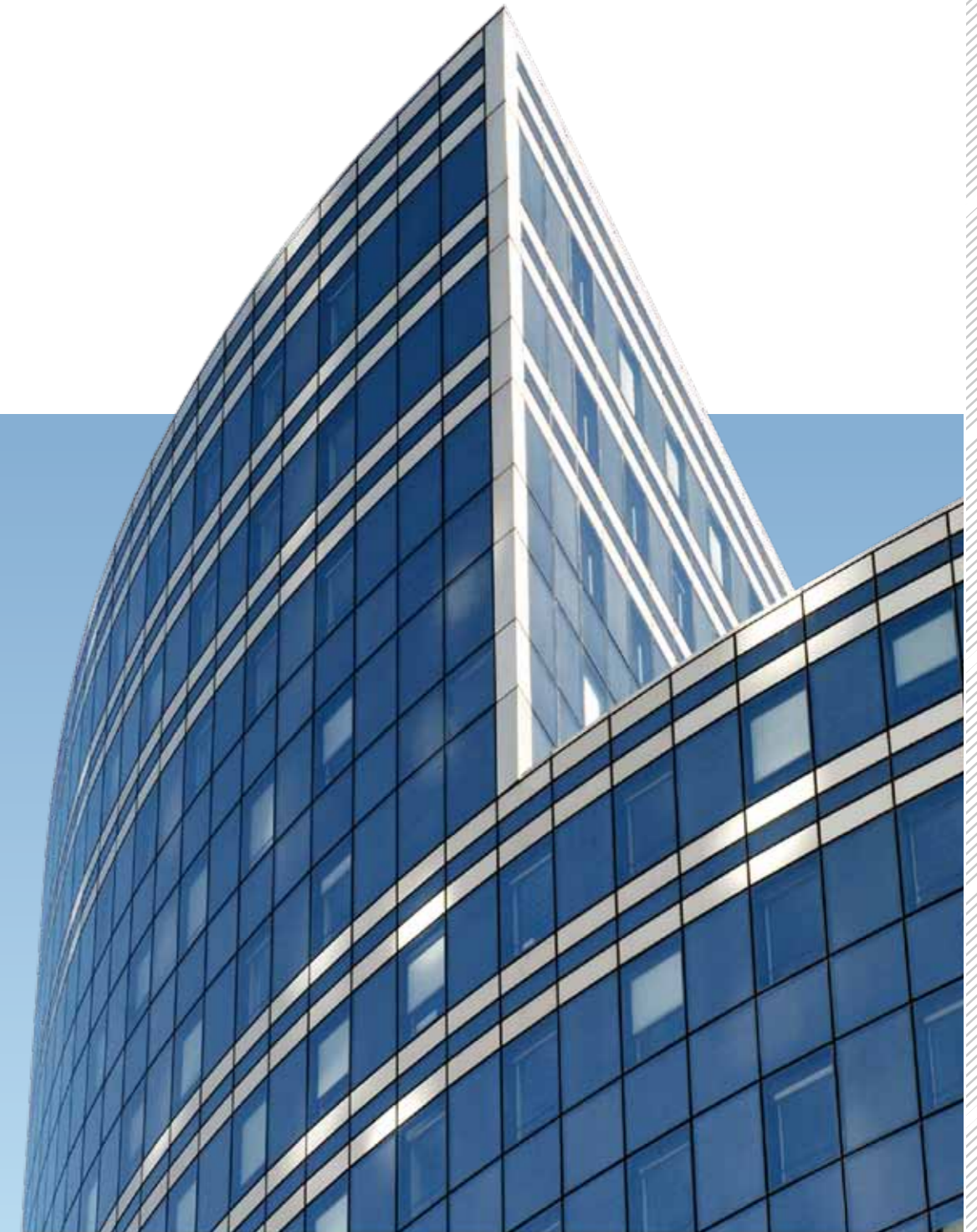
Adopts the technologies of auto addressing, non-polar communication and auto debugging, which improves project efficiency.



Floor Heating Debugging

LIGHT COMMERCIAL AC

U-Match
Duct Split Unit
Floor Ceiling Split Unit



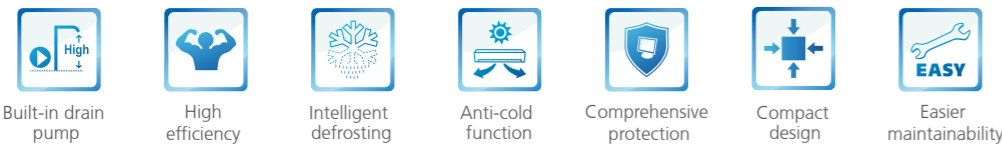
LIGHT COMMERCIAL AC

U-Match



High Efficiency 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/heating under -15°C outdoor environment temperature (for the unit CUHD*C10).



Indoor Unit

Duct type	Cassette type	Floor ceiling type
<ul style="list-style-type: none"> • Drain pump fitted as optional 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. 	<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		Indoor condition		Outdoor condition
	DB (°C)	WB (°C)	DB (°C)	WB (°C)	DB (°C)
Cooling	35	24	27	19	-15~48
Heating	7	6	20	-	-10~24

Indoor Units Lineup

Capacity Index (BTU/h)		9K	12K	18K	24K	30K	
Outdoor Unit	Model	GUHD09NK3FO	GUHD12NK3FO	GUHD18NK3FO	GUHD24NK3FO	GUHD30NK3FO	
	Picture						
Indoor Unit	Duct	Model	GFH09K3FI	GFH12K3FI	GFH18K3FI	GFH24K3FI	GFH30K3FI
		Picture					
	Cassette	Model	---	GKH12K3FI	GKH18K3FI	GKH24K3FI	GKH30K3FI
		Picture	---				
Floor Ceiling	Model	GTH09K3FI	GTH12K3FI	GTH18K3FI	GTH24K3FI	GTH30K3FI	
	Picture						

Capacity Index (BTU/h)		36K		42K		48K		60K	
Outdoor Unit	Model	GUHD36NK3FO	GUHD36NM3FO	GUHD42NK3FO	GUHD42NM3FO	GUHD48NK3FO	GUHD48NM3FO	GUHD60NM3FO	
	Picture								
Indoor Unit	Duct	Model	GFH36K3FI	GFH36K3FI	GFH42K3FI	GFH42K3FI	GFH48K3FI	GFH48K3FI	GFH60K3FI
		Picture							
	Cassette	Model	GKH36K3FI	GKH36K3FI	GKH42K3FI	GKH42K3FI	GKH48K3FI	GKH48K3FI	GKH60K3FI
		Picture							
Floor Ceiling	Model	GTH36K3FI	GTH36K3FI	GTH42K3FI	GTH42K3FI	GTH48K3FI	GTH48K3FI	GTH60K3FI	
	Picture								

LIGHT COMMERCIAL AC











Model	Outdoor unit			GUHD09NK3FO		GUHD12NK3FO		
	Indoor unit			Duct	Floor Ceiling	Duct	Floor Ceiling	
				GFH09K3FI	GTH09K3FI	GFH12K3FI	GTH12K3FI	
Capacity	Cooling	W	2700	2700	3500	3500	3500	
		BTU/h	9212	9212	11942	11942	11942	
	Heating	W	2900	2900	3800	3800	3800	
		BTU/h	9895	9895	12966	12966	12966	
SEER/SCOP		W/W	5.1/3.8	5.1/3.8	5.1/3.8	5.1/3.8	5.1/3.8	
Power supply		PhV/Hz	1/220-240/50		1/220-240/50			
Power input	Cooling	kW	0.84	0.84	1.17	1.09	1.09	
	Heating	kW	0.80	0.80	1.05	1.05	1.05	
Current input	Cooling	A	3.9	3.9	5.4	5.0	5.0	
	Heating	A	3.7	3.7	4.9	4.9	4.9	
Refrigerant charge volume		kg	1.2	1.2	1.2	1.2	1.2	
Indoor unit	Air flow volume(H/M/L)		CFM	383	353	441	412	
			m ³ /h	650	600	750	700	
	ESP	Rated	Pa	25	—	25	—	
		Range	Pa	0-30	—	0-30	—	
	Sound pressure level (H/M/L)		dB(A)	36/34/28/26	31/29/26/24	37/36/34/28	46/45/41/36	35/33/30/27
	Dimension (WxDxH)	Outline	mm	883x665x250	1220x700x225	998x721x266	596x596x240	1220x700x225
Package		mm	1023x748x320	1343x823x315	1123x798x323	773x733x300	1343x823x315	
Net weight/Gross weight		kg	27/32	38/47	20/24	33/38	39/48	
Panel	Dimension (WxDxH)	Outline	mm	—	—	650x650x50	—	
		Package	mm	—	—	763x763x105	—	
	Net weight/Gross weight		kg	—	—	3.5/5.0	—	
Outdoor unit	Sound pressure level		dB(A)	52		52		
	Dimension (WxDxH)	Outline	mm	848x320x540		848x320x540		
		Package	mm	881x363x595		881x363x595		
	Net weight/Gross weight		kg	34/37		34/37		
Connection pipe	Outer diameter	Liquid	inch(mm)	φ1/4(6.35)		φ1/4(6.35)		
		Gas	inch(mm)	φ3/8(9.52)		φ3/8(9.52)		
	Max.distance	Height/Length	m	15/20		15/20		
Loading quantity	40'GP/40'HQ	-	126/141	96/112	114/131	127/138	96/112	

Model	Outdoor unit			GUHD30NK3FO			GUHD36NK3FO		
	Indoor unit			Duct	Cassette	Floor Ceiling	Duct	Cassette	Floor Ceiling
				GFH30K3FI	GKH30K3FI	GTH30K3FI	GFH36K3FI	GKH36K3FI	GTH36K3FI
Capacity	Cooling	W	8300	8300	8500	10000	10000	10000	
		BTU/h	28320	28320	29002	34120	34120	34120	
	Heating	W	9200	9200	9200	12000	12000	12000	
		BTU/h	31390	31390	31390	40944	40944	40944	
SEER/SCOP		W/W	5.1/3.8	5.1/3.8	5.1/3.8	5.1/3.8	5.1/3.8	5.1/3.8	
Power supply		PhV/Hz	1/220-240/50			1/220-240/50			
Power input	Cooling	kW	2.67	2.67	2.67	3.20	3.20	3.20	
	Heating	kW	2.57	2.57	2.57	3.40	3.50	3.40	
Current input	Cooling	A	12.4	12.4	12.4	15.0	15.0	15.0	
	Heating	A	12.0	12.0	12.0	15.5	16.2	15.8	
Refrigerant charge volume		kg	2.4	2.4	2.4	3.5	3.5	3.5	
Indoor unit	Air flow volume(H/M/L)		CFM	824	883	883	1236	1095	1118
			m ³ /h	1400	1500	1500	2100	1860	1900
	ESP	Rated	Pa	37	—	—	37	—	—
		Range	Pa	0-75	—	—	0-100	—	—
	Sound pressure level (H/M/L)		dB(A)	47/46/44/40	49/46/44/38	49/48/46/40	53/52/48/44	51/49/46/43	54/53/51/46
	Dimension (WxDxH)	Outline	mm	1239x558x268	840x840x320	1420x700x245	1226x775x290	840x840x320	1420x700x245
Package		mm	1348x597x283	963x963x409	1548x828x345	1338x877x305	963x963x409	1548x828x345	
Net weight/Gross weight		kg	34/39	31/38	48/56	46/53	31/38	48/56	
Panel	Dimension (WxDxH)	Outline	mm	—	950x950x60	—	—	950x950x60	
		Package	mm	—	1028x1043x130	—	—	1028x1043x130	
	Net weight/Gross weight		kg	—	7.0/11	—	—	7.0/11	
Outdoor unit	Sound pressure level		dB(A)	58		63			
	Dimension (WxDxH)	Outline	mm	980x427x790		1107x440x1100			
		Package	mm	1083x488x855		1158x493x1235			
	Net weight/Gross weight		kg	71/76		92/100			
Connection pipe	Outer diameter	Liquid	inch(mm)	φ3/8(9.52)		φ3/8(9.52)			
		Gas	inch(mm)	φ5/8(15.9)		φ5/8(15.9)			
	Max.distance	Height/Length	m	15/30		15/50			
Loading quantity	40'GP/40'HQ	-	76/89	49/69	57/67	45/60	43/50	45/56	

Model	Outdoor unit			GUHD18NK3FO			GUHD24NK3FO		
	Indoor unit			Duct	Cassette	Floor Ceiling	Duct	Cassette	Floor Ceiling
				GFH18K3FI	GKH18K3FI	GTH18K3FI	GFH24K3FI	GKH24K3FI	GTH24K3FI
Capacity	Cooling	W	5000	5000	5000	7000	7000	7000	
		BTU/h	17060	17060	17060	23884	23884	23884	
	Heating	W	5600	5500	5600	8000	8000	8000	
		BTU/h	19107	18766	19107	27296	27296	27296	
SEER/SCOP		W/W	5.1/3.8	5.1/3.8	5.1/3.8	5.1/3.8	5.1/3.8	5.1/3.8	
Power supply		PhV/Hz	1/220-240/50			1/220-240/50			
Power input	Cooling	kW	1.55	1.60	1.55	2.18	2.18	2.18	
	Heating	kW	1.55	1.58	1.55	2.21	2.21	2.21	
Current input	Cooling	A	7.5	7.2	7.2	10.1	10.1	10.1	
	Heating	A	7.4	7.6	7.2	10.2	10.2	10.2	
Refrigerant charge volume		kg	1.4	1.4	1.4	2.2	2.2	2.2	
Indoor unit	Air flow volume(H/M/L)		CFM	589	447	589	824	765	706
			m ³ /h	1000	760	1000	1400	1300	1200
	ESP	Rated	Pa	25	—	—	25	—	—
		Range	Pa	0-30	—	—	0-75	—	—
	Sound pressure level (H/M/L)		dB(A)	40/39/36/28	47/46/44/37	44/42/38/32	47/46/44/40	47/46/42/38	49/48/46/40
	Dimension (WxDxH)	Outline	mm	998x721x266	596x596x240	1220x700x225	1239x558x268	840x840x320	1220x700x225
Package		mm	1123x798x323	773x733x300	1343x823x315	1348x597x283	963x963x409	1343x823x315	
Net weight/Gross weight		kg	33/38	20/24	39/48	34/39	26/32	40/50	
Panel	Dimension (WxDxH)	Outline	mm	—	650x650x50	—	—	950x950x60	
		Package	mm	—	763x763x105	—	—	1028x1043x130	
	Net weight/Gross weight		kg	—	3.5/5.0	—	—	7.0/11	
Outdoor unit	Sound pressure level		dB(A)	56		57			
	Dimension (WxDxH)	Outline	mm	955x396x700		980x427x790			
		Package	mm	1029x458x750		1083x488x855			
	Net weight/Gross weight		kg	47/50		67/72			
Connection pipe	Outer diameter	Liquid	inch(mm)	φ1/4(6.35)		φ3/8(9.52)			
		Gas	inch(mm)	φ1/2(12.7)		φ5/8(15.9)			
	Max.distance	Height/Length	m	15/20		15/30			
Loading quantity	40'GP/40'HQ	-	93/95	95/105	89/97	76/89	64/71	70/86	

Model	Outdoor unit			GUHD36NM3FO			GUHD42NK3FO		
	Indoor unit			Duct	Cassette	Floor Ceiling	Duct	Cassette	Floor Ceiling
				GFH36K3FI	GKH36K3FI	GTH36K3FI	GFH42K3FI	GKH42K3FI	GTH42K3FI
Capacity	Cooling	W	10000	10000	10000	11500	11000	11500	
		BTU/h	34120	34120	34120	39238	37532	39238	
	Heating	W	12000	12000	12000	13500	13500	13500	
		BTU/h	40944	40944	40944	46062	42650	46062	
SEER/SCOP		W/W	5.1/3.8	5.1/3.8	5.1/3.8	5.1/3.8	5.1/3.8	5.1/3.8	
Power supply		PhV/Hz	3/380-415/50			1/220-240/50			
Power input	Cooling	kW	3.12	3.12	3.12	4.00	3.90	3.90	
	Heating	kW	3.32	3.32	3.32	3.90	3.80	3.70	
Current input	Cooling	A	5.6	5.6	5.6	18.6	18.1	18.1	
	Heating	A	6.0	6.0	6.0	18.1	17.6	17.2	
Refrigerant charge volume		kg	3.5	3.5	3.5	3.7	3.7	3.7	
Indoor unit	Air flow volume(H/M/L)		CFM	1236	1095	1118	1236	1095	1118
			m ³ /h	2100	1860	1900	2100	1860	1900
	ESP	Rated	Pa	37	—	—	37	—	—
		Range	Pa	0-100	—	—	0-100	—	—
	Sound pressure level (H/M/L)		dB(A)	53/52/48/44	51/49/46/43	54/53/51/46	53/52/48/44	51/49/46/43	55/54/52/47
	Dimension (WxDxH)	Outline	mm	1226x775x290	840x840x320	1420x700x245	1226x775x290	840x840x320	1420x700x245
Package		mm	1338x877x305	963x963x409	1548x828x345	1338x877x305	963x963x409	1548x828x345	
Net weight/Gross weight		kg	46/53	31/38	48/56	46/53	31/38	50/58	
Panel	Dimension (WxDxH)	Outline	mm	—	950x950x60	—	—	950x950x60	
		Package	mm	—	1028x1043x130	—	—	1028x1043x130	
	Net weight/Gross weight		kg	—	7.0/11	—	—	7.0/11	
Outdoor unit	Sound pressure level		dB(A)	63		61			
	Dimension (WxDxH)	Outline	mm	1107x440x1100		958x412x1349			
		Package	mm	1158x493x1235		1043x453x1500			
	Net weight/Gross weight		kg	98/106		95/105			
Connection pipe	Outer diameter	Liquid	inch(mm)	φ3/8(9.52)		φ3/8(9.52)			
		Gas	inch(mm)	φ5/8(15.9)		φ5/8(15.9)			
	Max.distance	Height/Length	m	15/50		30/50			
Loading quantity	40'GP/40'HQ	-	76/89	49/69	57/67	52/58	45/48	43/47	

Control System Lineup

Controlling system		Product series		High efficiency series		
				Duct type	Cassette type	Floor ceiling type
						
Wireless remote controller	YB1FA		○	●	●	
	YV1FB7F		○	○	○	
	YV1FB7		○	○	○	
	YB1FAF		○	○	○	
	YAM1F		○	○	○	
	YAM1FF		○	○	○	
Wired controller	Z4K351J		●	○	○	

Note:
● means standard, ○ means optional.

Model	Outdoor unit		GUHD42NM3FO			GUHD48NK3FO			
	Indoor unit		Duct	Cassette	Floor Ceiling	Duct	Cassette	Floor Ceiling	
			GFH42K3FI	GKH42K3FI	GTH42K3FI	GFH48K3FI	GKH48K3FI	GTH48K3FI	
Capacity	Cooling	W	11500	11000	11500	14000	14000	14000	
		BTU/h	39238	37532	39238	47768	47768	47768	
	Heating	W	13500	12500	13500	15500	16000	16000	
		BTU/h	46062	42650	46062	52886	54592	54592	
SEER/SCOP		W/W	5.1/3.8	5.1/3.8	5.1/3.8	5.1/3.8	5.1/3.8	5.1/3.8	
Power supply		PhV/Hz	3/380-415/50			1/220-240/50			
Power input	Cooling	kW	4.00	3.90	3.90	4.70	4.60	4.80	
	Heating	kW	3.90	3.80	3.74	4.40	4.50	4.30	
Current input	Cooling	A	6.8	6.7	6.7	21.8	21.3	22.3	
	Heating	A	6.7	6.5	6.5	20.4	20.8	20.0	
Refrigerant charge volume		kg	3.7	3.7	3.7	4.0	4.0	4.0	
Indoor unit	Air flow volume(H/M/L)		CFM	1236	1095	1118	1412	1354	1354
			m³/h	2100	1860	1900	2400	2300	2300
	ESP	Rated	Pa	37	—	—	50	—	—
		Range	Pa	0-100	—	—	0-125	—	—
	Sound pressure level (H/M/L)		dB(A)	53/52/48/44	51/49/46/43	55/54/52/47	55/53/49/45	53/52/47/41	57/55/50/46
	Dimension (WxDxH)	Outline	mm	1226x775x290	840x840x320	1420x700x245	1340x750x350	910x910x290	1700x700x245
Package		mm	1338x877x305	963x963x409	1548x828x345	1423x837x455	1023x993x375	1828x828x345	
Net weight/Gross weight		kg	46/53	31/38	50/58	56/65	43/50	59/68	
Panel	Dimension (WxDxH)	Outline	mm	—	950x950x60	—	—	1040x1040x65	—
		Package	mm	—	1028x1043x130	—	—	1137x1137x140	—
	Net weight/Gross weight		kg	—	7.0/11	—	—	8.0/12	—
Outdoor unit	Sound pressure level		dB(A)	61			59		
	Dimension (WxDxH)	Outline	mm	958x412x1349			958x412x1349		
		Package	mm	1043x453x1500			1043x453x1500		
	Net weight/Gross weight		kg	108/118			105/115		
Connection pipe	Outer diameter	Liquid	inch(mm)	φ3/8(9.52)			φ3/8(9.52)		
		Gas	inch(mm)	φ5/8(15.9)			φ5/8(15.9)		
	Max.distance	Height/Length	m	30/50			30/50		
Loading quantity		40'GP/40'HQ	-	76/89	49/69	57/67	38/48	43/50	43/47

Model	Outdoor unit		GUHD48NM3FO			GUHD60NM3FO			
	Indoor unit		Duct	Cassette	Floor Ceiling	Duct	Cassette	Floor Ceiling	
			GFH48K3FI	GKH48K3FI	GTH48K3FI	GFH60K3FI	GKH60K3FI	GTH60K3FI	
Capacity	Cooling	W	14000	14000	14000	16000	16000	16000	
		BTU/h	47768	47768	47768	54592	54592	54592	
	Heating	W	15500	16000	16000	16500	17000	17000	
		BTU/h	52886	54592	54592	56298	58004	58004	
SEER/SCOP		W/W	5.1/3.8	5.1/3.8	5.1/3.8	5.1/3.8	5.1/3.8	5.1/3.8	
Power supply		PhV/Hz	3/380-415/50			3/380-415/50			
Power input	Cooling	kW	4.80	4.80	4.80	5.60	5.70	5.75	
	Heating	kW	4.40	4.40	4.40	4.57	4.70	4.70	
Current input	Cooling	A	8.2	8.2	8.2	9.8	10.0	10.0	
	Heating	A	7.6	7.6	7.6	8.0	8.2	8.2	
Refrigerant charge volume		kg	4.0	4.0	4.0	5.0	5.0	5.0	
Indoor unit	Air flow volume(H/M/L)		CFM	1412	1354	1354	1766	1412	1471
			m³/h	2400	2300	2300	3000	2400	2500
	ESP	Rated	Pa	50	—	—	50	—	—
		Range	Pa	0-125	—	—	0-150	—	—
	Sound pressure level (H/M/L)		dB(A)	55/53/49/45	53/52/47/41	57/55/50/46	57/56/54/49	55/53/47/41	58/56/52/46
	Dimension (WxDxH)	Outline	mm	1340x750x350	910x910x290	1700x700x245	1340x750x350	910x910x290	1700x700x245
Package		mm	1423x837x455	1023x993x375	1828x828x345	1423x837x455	1023x993x375	1828x828x345	
Net weight/Gross weight		kg	56/65	43/50	59/68	57/69	43/50	59/68	
Panel	Dimension (WxDxH)	Outline	mm	—	1040x1040x65	—	—	1040x1040x65	—
		Package	mm	—	1137x1137x140	—	—	1137x1137x140	—
	Net weight/Gross weight		kg	—	8.0/12	—	—	8.0/12	—
Outdoor unit	Sound pressure level		dB(A)	59			63		
	Dimension (WxDxH)	Outline	mm	958x412x1349			1085x427x1365		
		Package	mm	1043x453x1500			1143x478x1505		
	Net weight/Gross weight		kg	114/124			126/138		
Connection pipe	Outer diameter	Liquid	inch(mm)	φ3/8(9.52)			φ3/8(9.52)		
		Gas	inch(mm)	φ5/8(15.9)			φ3/4(19.05)		
	Max.distance	Height/Length	m	30/50			30/50		
Loading quantity		40'GP/40'HQ	-	38/48	43/50	43/47	40/40	38/48	39/42

LIGHT COMMERCIAL AC

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.
- With low ambient temperature cooling function, cooling normally in -15°C.
- Higher efficiency thanks to sine wave DC inverter compressor control.
- High reliability and easy maintenance thanks to one piece integrated PCB board.
- Stable cooling/heating under -15°C outdoor environment temperature (for the unit CUHD*C10).
- With ice-melting function.



Indoor Unit

Duct type

- Drain pump fitted as optional 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.
- All kinds of air freshener can be installed in the filter, such as catechin

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	-15~24

Units Lineup

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

Capacity Index (BTU/h)		36K	42K	48K	60K
Outdoor Unit		 GUHD36NK3CO GUHD36NK3C10 GUHD36NM3CO GUHD36NM3C10	 GUHD42NK3CO GUHD42NK3C10 GUHD42NM3CO GUHD42NM3C10	 GUHD48NK3CO GUHD48NK3C10 GUHD48NM3CO GUHD48NM3C10	 GUHD60NM3CO GUHD60NM3C10
	Indoor Unit	Duct	 GFH36K3CI	 GFH42K3CI	 GFH48K3CI
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		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(0.36-1.25)	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	0.80(0.34-1.10)	0.75(0.43-1.08)	0.97(0.40-1.18)	1.02(0.39-1.20)	0.93(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	1.20	1.20	1.20	
Indoor unit	Air flow volume(H/M/L)		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			54	
	Dimension (WxDxH)	Outline	mm	848x320x540			848x320x540	
		Package	mm	881x363x595			881x363x595	
	Net weight/Gross weight		kg	28/32			30/34	
Connection pipe	Outer diameter	Liquid	inch(mm)	φ1/4(6.35)			φ1/4(6.35)	
		Gas	inch(mm)	φ3/8(9.52)			φ1/2(12.7)	
	Max distance	Height/Length	m	15/20			15/20	
Loading quantity	40'GP/40'HQ	set	127/141	102/116	116/133	123/157	102/116	

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		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)	3.18(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(H/M/L)		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	—		
			Package	mm	—	1028x1043x130	—		
	Net weight/Gross weight		kg	—	—	6.5/10	—		
Outdoor unit	Sound pressure level		dB(A)	59			61		
	Dimension (WxDxH)	Outline	mm	980x427x790			1107x440x1100		
		Package	mm	1083x488x855			1158x493x1235		
	Net weight/Gross weight		kg	68/74			90/101		
Connection pipe	Outer diameter	Liquid	inch(mm)	φ3/8(9.52)			φ3/8(9.52)		
		Gas	inch(mm)	φ5/8(15.9)			φ5/8(15.9)		
	Max distance	Height/Length	m	15/30			15/30		
Loading quantity	40'GP/40'HQ	set	76/89	49/69	57/67	45/49	46/46	46/46	

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		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(H/M/L)		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	—		
			Package	mm	—	1028x1043x130	—		
	Net weight/Gross weight		kg	—	—	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	48/53			65/70		
Connection pipe	Outer diameter	Liquid	inch(mm)	φ1/4(6.35)			φ3/8(9.52)		
		Gas	inch(mm)	φ1/2(12.7)			φ5/8(15.9)		
	Max distance	Height/Length	m	15/20			15/30		
Loading quantity	40'GP/40'HQ	set	93/95	72/77	89/97	76/89	64/71	70/86	

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		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	3.2(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(H/M/L)		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	53/5		

Model	Outdoor unit		GUHD42NM3C0			GUHD48NK3C0		
	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)	
	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 (H/M/L)		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(mm)	φ3/8(9.52)			φ3/8(9.52)	
		Gas	inch(mm)	φ5/8(15.9)			φ5/8(15.9)	
	Max. distance	Height/Length	m	30/50			30/50	
Loading quantity		40'GP/40'HQ	set	45/49	46/46	46/46	40/48	41/46

Model	Outdoor unit		GUHD48NM3C0		GUHD60NM3C0			
	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)		
	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 (H/M/L)		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(mm)	φ3/8(9.52)			φ3/8(9.52)	
		Gas	inch(mm)	φ5/8(15.9)			φ3/4(19.05)	
	Max. distance	Height/Length	m	30/50			30/50	
Loading quantity		40'GP/40'HQ	set	40/48	41/46	34/35	41/46	

Low Ambient Cooling

Model	Outdoor unit		GUHD09NK3C10			GUHD12NK3C10		
	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	3.21/4.1	
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(2.1-6.4)	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 (H/M/L)		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	—	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	881x363x595			881x363x595	
Net weight/Gross weight		kg	33/37			33/37		
Connection pipe	Outer diameter	Liquid	inch(mm)	φ1/4(6.35)			φ1/4(6.35)	
		Gas	inch(mm)	φ3/8(9.52)			φ1/2(12.7)	
	Max. distance	Height/Length	m	15/20			15/20	
Loading quantity		40'GP/40'HQ	set	126/141	96/112	114/131	128/144	96/112

Model	Outdoor unit		GUHD18NK3C10			GUHD24NK3C10			
	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		
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	1.65(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		
Indoor unit	Air flow volume (H/M/L)		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			

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)
	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(H/M/L)	CFM	883/765/647	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
		Dimension (WxDxH)	Outline	mm	1270x530x268	840x840x320	1420x700x245	1226x775x290
	Package		mm	1348x597x283	963x963x409	1548x828x345	1338x877x305	963x963x409
		Net weight/Gross weight	kg	36/41	32/43	51/58	57/67	32/43
	Panel	Dimension (WxDxH)	Outline	mm	—	950x950x60	—	—
		Package	mm	—	1028x1043x130	—	—	1028x1043x130
Net weight/Gross weight	kg	—	—	6.5/10	—	—	—	
Outdoor unit	Sound pressure level	dB(A)	—	59	—	—	61	
	Dimension (WxDxH)	Outline	mm	—	980x427x790	—	—	
Package	mm	—	—	1083x488x855	—	—	1107x440x1100	
Net weight/Gross weight	kg	—	—	68/74	—	—	89/100	
Connection pipe	Outer diameter	Liquid	inch(mm)	—	φ3/8(9.52)	—	—	
	Gas	inch(mm)	—	—	—	—	φ3/8(9.52)	
Max.distance	Height/Length	m	—	15/30	—	—	15/30	
Loading quantity	40'GP/40'HQ	set	76/89	49/69	57/67	45/49	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)
	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(H/M/L)	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
		Dimension (WxDxH)	Outline	mm	1226x775x290	840x840x320	1420x700x245	1226x775x290
	Package		mm	1338x877x305	963x963x409	1548x828x345	1338x877x305	963x963x409
		Net weight/Gross weight	kg	57/67	32/43	53/61	57/67	32/43
	Panel	Dimension (WxDxH)	Outline	mm	—	950x950x60	—	—
		Package	mm	—	1028x1043x130	—	—	1028x1043x130
Net weight/Gross weight	kg	—	—	6.5/10	—	—	—	
Outdoor unit	Sound pressure level	dB(A)	—	61	—	—	61	
	Dimension (WxDxH)	Outline	mm	—	1107x440x1100	—	—	
Package	mm	—	—	1158x493x1235	—	—	1107x440x1100	
Net weight/Gross weight	kg	—	—	88/99	—	—	89/100	
Connection pipe	Outer diameter	Liquid	inch(mm)	—	φ3/8(9.52)	—	—	
	Gas	inch(mm)	—	—	—	—	φ3/8(9.52)	
Max.distance	Height/Length	m	—	15/30	—	—	30/50	
Loading quantity	40'GP/40'HQ	set	45/49	46/46	46/46	45/49	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)	
	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(H/M/L)	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
	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	—	—	
Package	mm	—	—	1158x493x1235	—	—	1085x427x1365	
Net weight/Gross weight	kg	—	—	88/99	—	—	1143x478x1505	
Connection pipe	Outer diameter	Liquid	inch(mm)	—	φ3/8(9.52)	—	—	
	Gas	inch(mm)	—	—	—	—	φ3/8(9.52)	
Max.distance	Height/Length	m	—	15/30	—	—	φ5/8(15.9)	
Loading quantity	40'GP/40'HQ	set	45/49	46/46	46/46	46/46	40/48	

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)	
	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)	6.2(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(H/M/L)	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
	Package		mm	1338x925x345	1828x828x345	1543x883x470	1828x828x345
		Net weight/G					

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.



- Double ambient temperature sensor design makes a precision temperature monitoring.
- With low ambient temperature cooling function, cooling normally in -7°C .
- The outdoor unit is universal, can be matched with floor standing, cassette, duct type indoor unit.



Indoor Unit

Duct type

- 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.
- All kinds of air freshener can be installed in the filter, such as catechin

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	-7~43(with low ambient cooling) 18~43(without low ambient cooling)
Heating	7	6	20	15	-7~24

Indoor Units Lineup

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

Capacity Index (BTU/h)		30K	36K	42K	48K	60K
Outdoor Unit		 GUHN30NK3A1O	 GUHN36NK3AO GUHN36NM3AO	 GUHN42NM3AO	 GUHN48NM3A1O	 GUHN60NM3A2O
Indoor Unit	Duct	 GFH30K3B1I	 GFH36K3BI	 GFH42K3BI	 GFH48K3B1I	 GFH60K3BI
	Cassette	 GKH30K3B1I	 GKH36K3BI	 GKH42K3BI	 GKH48K3B1I	—
	Floor Ceiling	 GTH30K3B1I	 GTH36K3BI	 GTH42K3BI	 GTH48K3B1I	—

LIGHT COMMERCIAL AC

Model	Outdoor unit		GUHN09NK3AO			GUHN12NK3AO		
	Indoor unit		Duct	Floor Ceiling	Duct	Cas tee	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		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	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	1	
Indoor unit	Air flow volume(H/M/L)		m ³ /h	550/470/400	550/470/380	600/540/490	550/490/420	550/470/380
			CFM	324/277/235	324/277/224	353/318/288	324/288/247	324/277/224
	ESP	Rated	Pa	25	—	25	—	—
		Range	Pa	0-25	—	0-25	—	—
	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)	Package	mm	913x680x220	836x695x238	913x680x220	600x600x230	836x695x238
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(mm)	φ1/4(6.35)			φ1/4(6.35)	
		Gas	inch(mm)	φ3/8(9.52)			φ1/2(12.7)	
	Max.distance	Height/Length	m	15/20			15/20	
Loading quantity	40'GP/40'HQ	set	123/160	116/143	123/160	113/144	116/143	

Model	Outdoor unit		GUHN30NK3A10			GUHN36NK3AO			
	Indoor unit		Duct	Cas tee	Floor Ceiling	Duct	Cas tee	Floor Ceiling	
			GFH30K3B1I	GKH30K3B1I	GTH30K3B1I	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	2.83/3.44	2.45/3.14	2.78/3.33	2.78/3.33	
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	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	3.6	3.2	3.2	3.2	
Indoor unit	Air flow volume(H/M/L)		m ³ /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
	ESP	Rated	Pa	37	—	—	37	—	—
		Range	Pa	0-100	—	—	0-150	—	—
	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)	Package	mm	1270x530x268	840x840x240	1420x700x245	1226x775x290	840x840x320	1590x695x238
Net Weight /Gross Weight		kg	37/43	27/36	48/58	54/61	32/43	48/58	
Panel	Dimension (WxDxH)	Outline	mm	—	950x950x60	—	—	950x950x60	—
		Package	mm	—	1025x1040x115	—	—	1025x1040x115	—
	Net weight/Gross weight	kg	—	6.5/10	—	—	6.5/10	—	
Outdoor unit	Sound pressure level		dB(A)	59			60		
	Dimension (WxDxH)	Outline	mm	980x427x790			1018x412x840		
		Package	mm	1083x488x855			1103x453x1000		
	Net weight /Gross weight	kg	70/75			90/100			
Connection pipe	Outer diameter	Liquid	inch(mm)	φ3/8(9.52)			φ1/2(12.7)		
		Gas	inch(mm)	φ5/8(15.9)			φ3/4(19.05)		
	Max.distance	Height/Length	m	15/30			30/50		
Loading quantity	40'GP/40'HQ	set	74/85	56/64	72/84	64/70	44/53	55/58	

Model	Outdoor unit		GUHN18NK3AO			GUHN24NK3AO			
	Indoor unit		Duct	Cas tee	Floor Ceiling	Duct	Cas tee	Floor Ceiling	
			GFH18K3BI	GKH18K3BI	GTH18K3BI	GFH24K3BI	GKH24K3BI	GTH24K3BI	
Capacity	Cooling	W	5000	5000	5000	7000	6800	7000	
		BTU/h	17000	17000	17000	23880	23200	23880	
	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		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	2.10	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	2.2	
Indoor unit	Air flow volume(H/M/L)		m ³ /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	694/636/589	688/635/588
	ESP	Rated	Pa	25	—	—	25	—	—
		Range	Pa	0-25	—	—	0-100	—	—
	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)	Package	mm	1012x736x266	600x600x230	836x695x238	1270x530x268	840x840x240	1300x600x188
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(mm)	φ1/4(6.35)			φ3/8(9.52)		
		Gas	inch(mm)	φ1/2(12.7)			φ5/8(15.9)		
	Max.distance	Height/Length	m	15/20			15/30		
Loading quantity	40'GP/40'HQ	set	116/132	113/114	116/143	92/94	52/60	88/98	

Model	Outdoor unit		GUHN36NM3AO			GUHN42NM3AO			
	Indoor unit		Duct	Cas tee	Floor Ceiling	Duct	Cas tee	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	47770	47770	47770	
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		PhV/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	3.55	
Indoor unit	Air flow volume(H/M/L)		m ³ /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
	ESP	Rated	Pa	37	—	—	37	—	—
		Range	Pa	0-150	—	—	0-150	—	—
	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)	Package	mm	1226x775x290	840x840x320	1590x695x238	1226x775x290	840x840x320	1590x695x238
Net Weight /Gross Weight		kg	54/61	32/43	48/58	54/61	32/43	48/58	
Panel	Dimension (WxDxH)	Outline	mm	—	950x950x60	—	—	950x950x60	—
		Package	mm	—	1025x1040x115	—	—	1025x1040x115	—
	Net weight/Gross weight	kg	—	6.5/10	—	—	6.5/10	—	
Outdoor unit	Sound pressure level		dB(A)	60			60		
	Dimension (WxDxH)	Outline	mm	1018x412x840			1032x412x840		
		Package	mm	1103x453x1000			1113x453x1400		
	Net weight /Gross weight	kg	90/100			112/123			
Connection pipe	Outer diameter	Liquid	inch(mm)	φ1/2(12.7)			φ1/2(12.7)		
		Gas	inch(mm)	φ3/4(19.05)			φ3/4(19.05)		
	Max.distance	Height/Length	m	30/50			30/50		
Loading quantity	40'GP/40'HQ	set	64/70	44/53	55/58	45/49	42/48	44/49	

U-Match(Fixed Frequency Series)

Model	Outdoor unit		GUHN48NM3A10			GUHN60NM3A0	
	Indoor unit		Duct	Casstee	Floor Ceiling	Duct	
Capacity	Cooling	W	13200	13200	13200	16000	
		Heating	BTU/h	45040	45040	45040	54600
W	14500		14500	14500	18500		
EER/COP	Power supply	BTU/h	49470	49470	49470	63100	
		W/W	2.59/3.15	2.75/2.79	2.64/3.02	2.46/3.36	
Power input	Cooling	PhV/Hz	3/380-415/50	3/380-415/50	3/380-415/50	3/380-415/50	
		kW	5.10	4.80	5.0	6.50	
Current input	Heating	kW	4.60	5.20	4.8	5.50	
		A	9.2	8.7	9.0	11.8	
Refrigerant charge volume	Cooling	A	8.3	9.5	8.7	10.0	
		kg	3.8	3.8	3.8	5	
Indoor unit	Air flow volume(H/M/L)	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	
	ESP	Rated	Pa	50	—	—	50
		Range	Pa	0-150	—	—	0-50
	Sound pressure level(H/M/L)	dB(A)	53/50/46	53/51/48	58/55/52	53/50/48	
		Dimension (WxDxH)	Package	mm	1226×775×290	840×840×320	1590×695×238
Panel	Net Weight /Gross Weight	kg <td>57/67</td> <td>32/43</td> <td>48/58</td> <td>66/76</td>	57/67	32/43	48/58	66/76	
		mm <td>—</td> <td>950×950×60</td> <td>—</td> <td>—</td>	—	950×950×60	—	—	
Outdoor unit	Dimension (WxDxH)	Outline	mm	—	1032×412×1250	—	1032×412×1250
		Package	mm	—	1113×453×1400	—	1113×453×1400
		Net weight /Gross weight	kg	—	112/123	—	123/134
Connection pipe	Outer diameter	Liquid	inch(mm)	φ1/2(12.7)	—	φ1/2(12.7)	—
		Gas	inch(mm)	φ3/4(19.05)	—	φ3/4(19.05)	—
Loading quantity	Max.distance	Height/Length	m	30/50	—	30/50	—
		set	45/49	42/48	44/49	45/49	

Control System Lineup

Controlling system	Product series	U-Match						
		Super inverter series			Fixed frequency series			
		Duct type	Cassette type	Floor ceiling type	Duct type	4-Way Cassette type	Floor ceiling type	
Wireless remote controller	ZY512A							
	Y512							
	YB1F2							
Wired controller	Z4B351							
	Z4B351A							
	Z7A351							
	Z7A351A							
	Z4E351A							
	Z4E351D							
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	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 ME30-00/E2 shall be selected also. The quantity of the module shall be confirm according to the quantity of outdoor units.

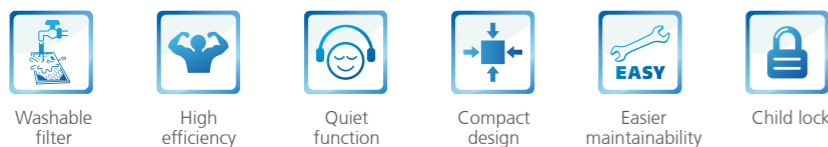
LIGHT COMMERCIAL AC

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.
- 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.
- Thanks to two-side drainage pan design, the indoor unit could be installed upside down.
- Big air volume and high static pressure.
- With human sensitive function, the indoor unit will be automatically on or off by sensing if there is human in room.
- The outdoor unit is equipped with soft start device, which can decrease the starting current and impact on the electric network.



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	GUHN36NK3DO	
	Indoor unit		GFH18K3DBI	GFH28K3DAI	GFH30K3DBI	GFH30K3DBI	GFH36K3DBI	
Capacity	Cooling	W	5000	7765	8000	8000	10000	
		BTU/h	17000	26500	27300	27300	34000	
Heating	W	5500	7540	8200	8200	10500		
	BTU/h	18800	25700	28000	28000	35800		
EER/COP	W/W	3.16/3.46	3.11/3.28	3.20/3.73	3.08/3.57	3.16/3.58		
Power supply	PhV/Hz	1/220-240/50	1/220-240/50	1/220-240/50	3/380-415/50	1/220-240/50		
Power input	Cooling	kW	1.58	2.50	2.50	3.16		
	Heating	kW	1.59	2.30	2.20	2.30		
Current input	Cooling	A	7.0	11.0	11.0	4.5		
	Heating	A	7.0	10.5	9.0	4.4		
Refrigerant charge volume	kg	1.65	2.7	2.7	2.75	3.2		
Indoor unit	Air flow volume	CFM	500/423/388/335	883/824/777/718	883/806/706/636	883/806/706/636	1030/970/882/789	
		m³/h	850/720/660/570	1500/1400/1320/1220	1500/1370/1200/1080	1500/1370/1200/1080	1750/1650/1500/1340	
	ESP	Rated	Pa	25	25	37	37	
		Range	Pa	0~50	0~140	0~70	0~70	
	Sound pressure level(H/M/L)	dB(A)	52/50/49	51/49/48	58/55/51	58/55/51	60/58/56	
		Outline	mm	888x758x290	650x670x385	1238x758x290	1238x758x290	1238x758x290
Dimension (WxDxH)	Package	mm	1023x868x345	858x858x415	1373x843x345	1373x843x345	1373x843x345	
	Net weight /Gross weight	kg	43/48	38/43	47/55	47/55	50/55	
Outdoor unit	Sound pressure level	dB(A)	58	60	60	60	61	
		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	76/81	107/116		
	Outer diameter	Liquid	inch(mm)	φ1/4(6.35)	φ1/4(6.35)	φ1/4(6.35)	φ1/4(6.35)	φ3/4(19.05)
Gas		inch(mm)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)	
	Max. distance	Height	m	15	15	15	15	30
Length		m	30	30	30	30	50	
	Loading quantity	40'GP/40'HQ	set	84/65	78/63	69/60	69/60	57/48

Model	Outdoor unit		GUHN36NM3DO	GUHN42NK3DO	GUHN42NM3DO	GUHN48NM3DO	GUHN60NM3DO	
	Indoor unit		GFH36K3DBI	GFH42K3DBI	GFH42K3DBI	GFH48K3DBI	GFH60K3DAI	
Capacity	Cooling	W	10000	10800	10800	13000	16100	
		BTU/h	34000	37000	37000	44300	55000	
Heating	W	11000	12400	12400	14000	17000		
	BTU/h	37500	42400	42400	48000	58000		
EER/COP	W/W	3.16/3.75	3.04/3.59	3.04/3.59	3.10/3.22	3.04/3.04		
Power supply	PhV/Hz	3/380-415/50	1/220-240/50	3/380-415/50	3/380-415/50	3/380-415/50		
Power input	Cooling	kW	3.16	3.55	3.55	4.20	5.30	
	Heating	kW	2.93	3.45	3.45	4.35	5.60	
Current input	Cooling	A	5.0	16.3	6.8	8.4	11.4	
	Heating	A	4.5	16.0	7.0	8.7	11.5	
Refrigerant charge volume	kg	3.35	4.4	4.6	4.7	5.2		
Indoor unit	Air flow volume	CFM	1030/970/882/789	1118/1048/977/883	1118/1048/977/883	1000/942/871/789	1707/1565/1395/1265	
		m³/h	1750/1650/1500/1340	1900/1780/1660/1500	1900/1780/1660/1500	1700/1600/1480/1340	2900/2660/2370/2150	
	ESP	Rated	Pa	37	37	37	50	
		Range	Pa	0~70	0~70	0~70	0~70	
	Sound pressure level(H/M/L)	dB(A)	60/58/56	62/60/58	62/60/58	62/60/58	64/62/60	
		Outline	mm	1238x758x290	1238x758x290	1238x758x290	1238x758x290	960x670x385
Dimension (WxDxH)	Package	mm	1373x843x345	1373x843x345	1373x843x345	1373x843x345	1168x858x415	
	Net weight /Gross weight	kg	50/55.0	53/62	53/62	53/62	47/57	
Outdoor unit	Sound pressure level	dB(A)	61	61	61	62	64	
		Outline	mm	1000x440x1100	1000x440x1100	1000x440x1100	1000x427x1365	1000x427x1365
		Package	mm	1143x483x1255	1143x483x1255	1143x483x1255	1143x478x1505	1143x478x1505
Net weight /Gross weight	kg	107/116	110/122	110/122	128/141	133/146		
	Outer diameter	Liquid	inch(mm)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)
Gas		inch(mm)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)	φ3/4(19.05)	
	Max. distance	Height	m	15	30	30	30	30
Length		m	30	50	50	50	50	
	Loading quantity	40'GP/40'HQ	set	57/48	57/48	57/48	46/42	42/42

LIGHT COMMERCIAL AC

Duct Split Unit



High Capacity Series

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



- 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 DB (°C)
	Outdoor condition		Indoor condition		
	DB (°C)	WB (°C)	DB (°C)	WB (°C)	
Cooling	35	24	27	19	21~43
Heating	7	6	20	15	-7~24-15~43 (low temperature heating)

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	68200	83597	102364	134780	
	Heating	kW	22	27.5	33	42	
		BTU/h	75067	93834	112601	143310	
EER/COP		W/W	2.38/3.14	2.5/3.06	2.4/3.14	2.50/3.00	
Power supply		Ph/V/Hz	3/380-415/50				
Power input	Cooling	kW	8.4	9.8	12.1	15.8	
	Heating	kW	7.0	9.0	10.5	14.0	
Current input	Cooling	A	15.3	22.2	23.4	30	
	Heating	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	2354	2825	3237	4120	
		m³/h	4000	4800	5500	7000	
	ESP	Rated	Pa	200	110	110	150
		Range	Pa	100-300	30-250	50-250	50-300
	Sound pressure level	dB (A)	56	54	57	58	
Dimension (WxDxH)	Outline	mm	1463x799x389	1500x1000x500	1500x1000x500	1700x1000x650	
		Package	mm	1546x886x485	1840x1230x688	1840x1230x688	1893x1463x850
	Net weight/Gross weight	kg	86/109	150/200	156/206	215/265	
		kg	158/174	185/200	227/248	293/316	
Outdoor unit	Dimension (WxDxH)	Outline	mm	1150x360x1350	1150x360x1600	990x880x1772	1290x880x1772
		Package	mm	1320x505x1490	1320x505x1745	1165x983x1965	1373x983x1965
	Net weight/Gross weight	kg	158/174	185/200	227/248	293/316	
Connection pipe	Outer diameter	Liquid	inch(mm)	φ3/8(9.52)	φ3/8(9.52)	φ1/2(12.7)	φ5/8(15.9)
		Gas	inch(mm)	φ3/4(19.05)	φ1(25.4)	φ9/8(28.6)	φ9/8(28.6)
	Max. distance	Height	m	30	30	30	30
		Length	m	50	50	50	50
Loading quantity	20'GP	set	17	13	13	8	
	40'GP/40'HQ	set	36/36	28/38	28/38	16/16	

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.
- Big air volume and high static pressure.
- With human sensitive function, the indoor unit will be automatically on or off by sensing if there is human in room.
- The outdoor unit is equipped with soft start device, which can decrease the starting current and impact on the electric network.



Item	Nominal operating condition (temperature)				Operating range (temperature) Outdoor condition DB (°C)
	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

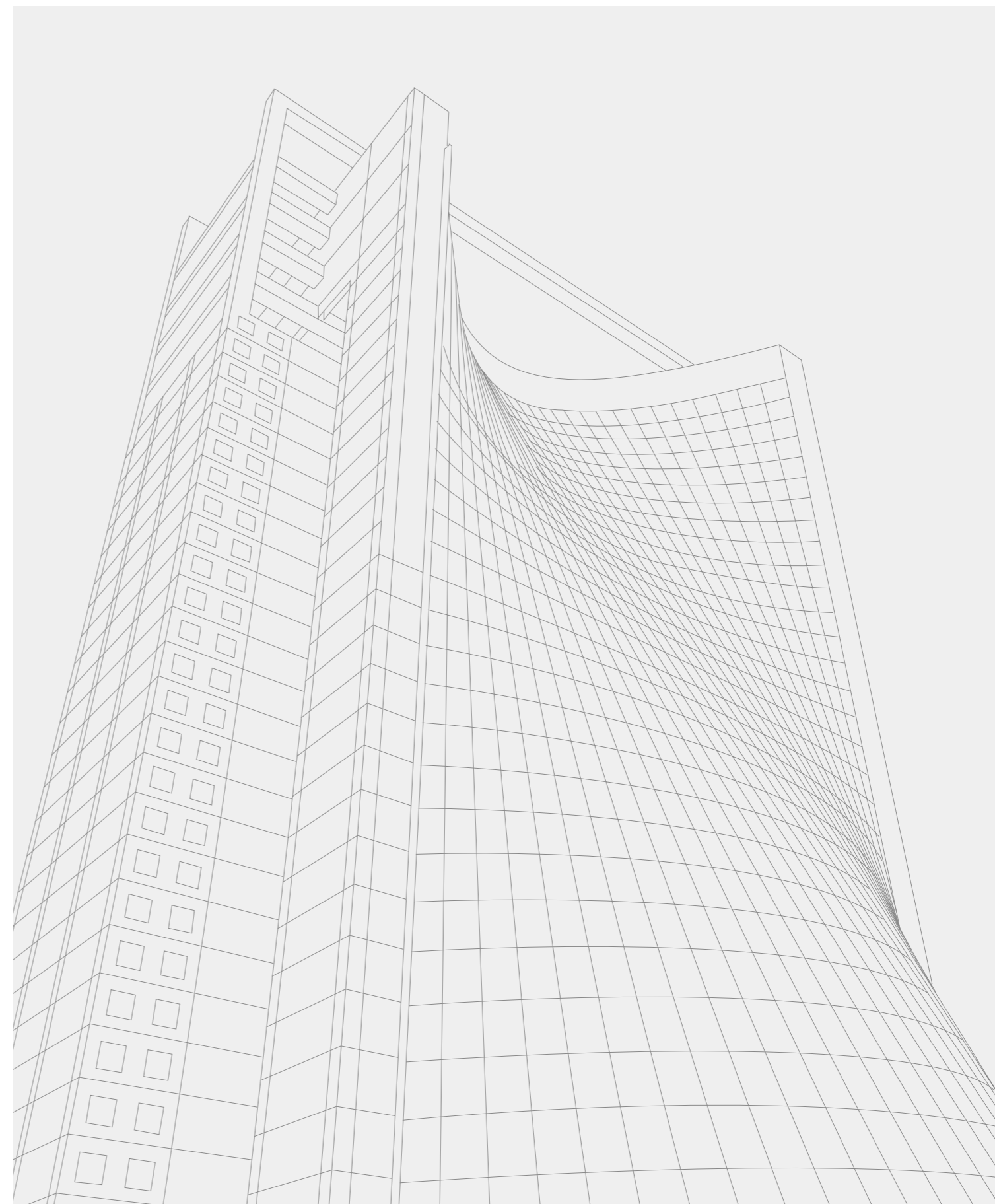
LIGHT COMMERCIAL AC

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	
		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	
		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 ESP)	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	1220x700x225	1220x700x225	1420x700x245	1420x700x245	1420x700x245	1420x700x245
Package		mm	1345x825x310	1345x825x310	1548x828x345	1548x828x345	1548x828x345	1548x828x345	
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	61	61	
	Dimension (WxDxH)	Outline	mm	1000x427x790	1000x427x790	1000x427x790	1000x427x790	1000x440x1100	1000x440x1100
		Package	mm	1143x483x880	1143x483x880	1143x483x880	1143x483x880	1143x483x1255	1143x483x1255
Net weight/Gross weight	kg		69/73	74/79	75/80	75/80	110/119	110/119	
Connection pipe	Outer diameter	Liquid	inch(mm)	φ1/4(6.35)	φ1/4(6.35)	φ1/4(6.35)	φ1/4(6.35)	φ3/8(9.52)	φ3/8(9.52)
		Gas	inch(mm)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)
	Max. distance	Height	m	15	15	15	15	30	30
		Length	m	30	30	30	30	50	50
Loading quantity	40'GP/40'HQ	set	140/162	66/78	57/67	57/67	46/57	46/57	

Control System Lineup

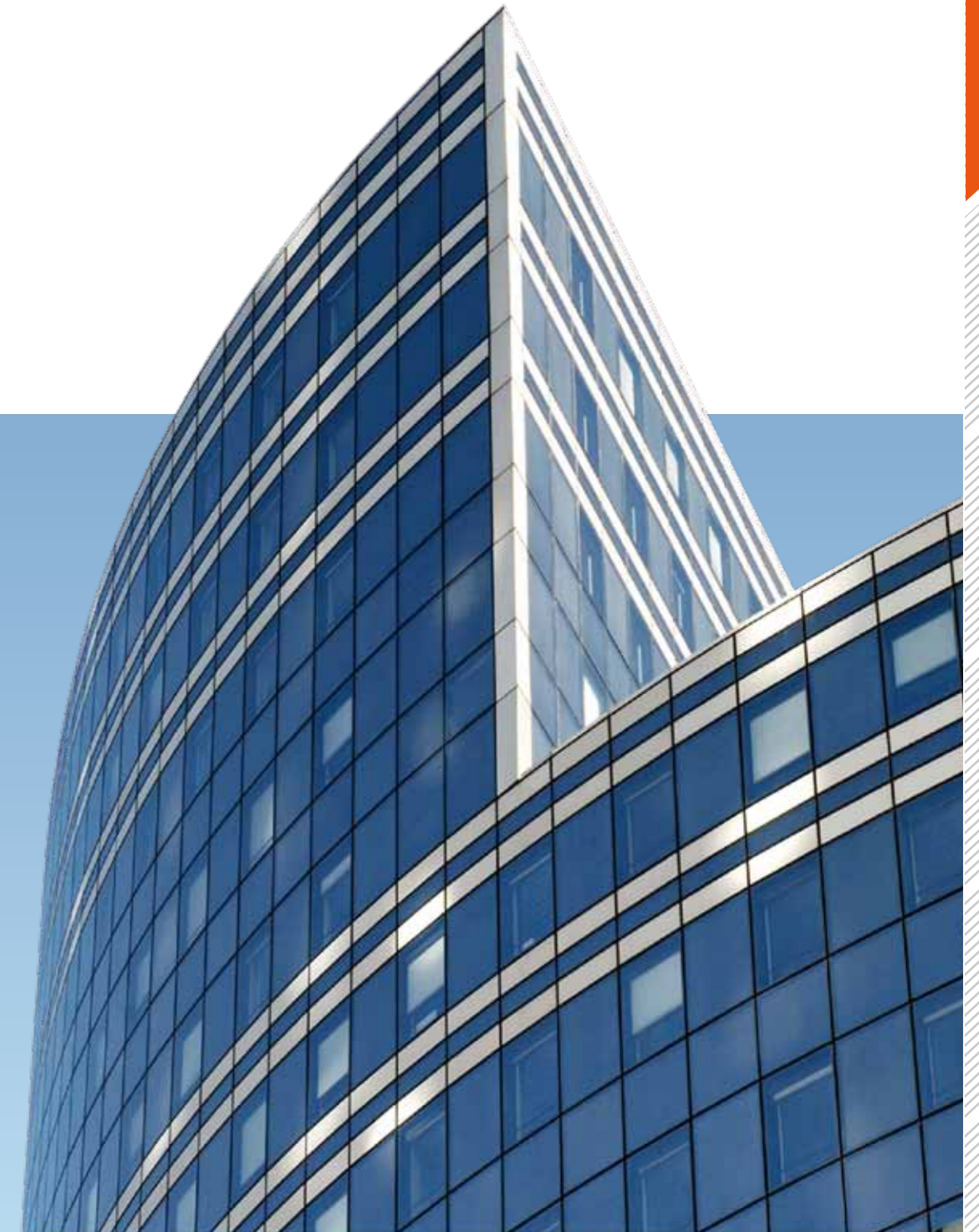
Controlling system			Product series		Duct split unit		Floor ceiling split unit
			High capacity series	High efficiency series	High capacity series	High efficiency series	
Wireless remote controller	YB1F2		○				
	YT1F			●		●	
Wired controller	Z4E351A		●			●	
Long-distance monitoring software	Gree AC Eudemon 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	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 ME30-00/E2 shall be selected also.
 The quantity of the module shall be confirm according to the quantity of outdoor units.



MULTI-VRF

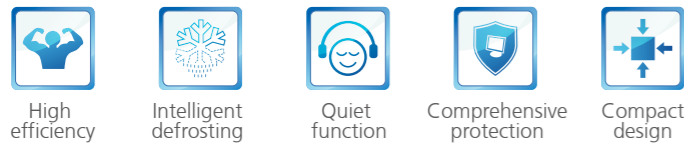
Free Match III
Super Free-Match
All DC Inverter VRF (GMV 5)
Inverter Series (GMV IV)
HOME GMV
GMV HR-II
Fresh Air Series
Energy Recovery Ventilation(ERV)
Control System Lineup



MULTI-VRF

Free Match III

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.

Indoor Units Lineup

Capacity Index(BTU/h)		7000	9000	12000	18000	21000	24000
Wall mounted	Hansol	●	●	●	●		
	Cozy	●	●	●	●		
	Change	●	●	●	●		
	Viola	●	●	●	●		
Floor ceiling			●	●	●		●
Cassette				●	●		●
Duct type			●	●	●	●	●

Outdoor Unit

Model	Heat Pump	GWHD(18)NK3FO	GWHD(24)NK3FO	GWHD(24)NK3GO	GWHD(28)NK3FO	GWHD(36)NK3BO	GWHD(42)NK3AO
Capacity	Cooling	17060	23884	24228	27300	35826	41285
	Heating	19107	26272	29000	31750	37532	44400
	Pdesignh	15695	19789	23800	23884	35826	—
SEER/SCOP	W/W	5.6/3.8	5.1/3.8	5.1/3.8	5.1/3.8	5.5/3.8	EER/COP=3.37/3.67
Energy class	A+/A	A/A	A/A	A/A	A/A	A/A	—
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	1550	2460	2250	2490	3500	3590
	Heating	1550	2560	2350	2580	3450	3550
Air flow volume	m³/h	3200	4000	4000	4000	5200	5500
Sound pressure level (H/M/L)	dB(A)	56	58	58	58	56	54
Piping connections	Gas	φ1/4(6.35)	φ1/4(6.35)	φ1/4(6.35)	φ1/4(6.35)	φ5/8(15.9)*	φ5/8(15.9)*
	Liquid	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)*	φ3/8(9.52)*
Dimension(WxHxD)	Outline	955x700x396	980x790x427	980x790x427	980x790x427	1015x1103x440	1015x1103x440
	Package	1029x750x458	1083x855x488	1083x855x488	1083x855x488	1158x1235x493	1158x1235x493
Net weight/Gross weight	kg	50/55	68/73	69/74	69/74	94/104	102/112
Loading quantity	40'GP	set	171	96	96	48	48
	40'HQ	set	171	144	144	144	96

*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:
 2. 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).
 * EER/COP = 3.23/3.67.

8 Combinations

GWHD(18)NK3FO (1 to 2)	One unit		Two units	
	7	7+7	7+9	
	9	7+12	9+9	
	12	9+12	—	

9 Combinations

GWHD(24)NK3FO (2 to 2)	Two units	
	7+7	7+9
	7+12	7+18
	9+9	9+12
	9+18	12+12
	12+18	

23 Combinations

GWHD(24)NK3GO (2 to 3)	Two units		Three units		
	7+7	7+9	7+7+7	7+7+9	7+7+12
	7+12	7+18	7+7+18	7+9+9	7+9+12
	9+9	9+12	7+9+18	7+12+12	9+9+9
	9+18	12+12	9+9+12	9+9+18	9+12+12
	12+18	18+18	12+12+12	—	—

39 Combinations

GWHD(28)NK3FO (2 to 4)	Two units		Three units				Four units	
	7+7	7+9	7+7+7	7+7+9	7+7+12	7+7+7+7	7+7+7+9	7+7+7+12
	7+12	7+18	7+7+18	7+9+9	7+9+12	7+7+7+18	7+7+9+9	7+7+9+12
	9+9	9+12	7+9+18	7+12+12	7+12+18	7+7+9+18	7+7+12+12	7+9+9+9
	9+18	12+12	9+9+9	9+9+12	9+9+18	7+9+9+12	9+9+9+9	9+9+9+12
	12+18	18+18	9+12+12	9+12+18	12+12+12	9+9+12+12	—	—
	—	—	12+12+18	—	—	—	—	—

97 Combinations

GWHD(36)NK3BO (2 to 4)	Two units		Three units			Four units		
	7+12	18+18	7+7+7	7+12+21	9+12+21	7+7+7+7	7+7+12+21	7+12+12+18
	7+18	18+21	7+7+9	7+12+24	9+12+24	7+7+7+9	7+7+12+24	9+9+9+9
	7+21	18+24	7+7+12	7+18+18	9+18+18	7+7+7+12	7+7+18+18	9+9+9+12
	7+24	21+21	7+7+18	7+18+21	9+18+21	7+7+7+18	7+9+9+9	9+9+9+18
	9+9	21+24	7+7+21	7+18+24	9+18+24	7+7+7+21	7+9+9+12	9+9+9+21
	9+12	24+24	7+7+24	7+21+21	9+21+21	7+7+7+24	7+9+9+18	9+9+9+24
	9+18	—	7+9+9	9+9+9	12+12+12	7+7+9+9	7+9+9+21	9+9+12+12
	9+21	—	7+9+12	9+9+12	12+12+18	7+7+9+12	7+9+9+24	9+9+12+18
	9+24	—	7+9+18	9+9+18	12+12+21	7+7+9+18	7+9+12+12	9+9+12+21
	12+12	—	7+9+21	9+9+21	12+12+24	7+7+9+21	7+9+12+18	9+9+18+18
	12+18	—	7+9+24	9+9+24	12+18+18	7+7+9+24	7+9+12+21	9+12+12+12
	12+21	—	7+12+12	9+12+12	12+18+21	7+7+12+12	7+9+18+18	9+12+12+18
	12+24	—	7+12+18	9+12+18	18+18+18	7+7+12+18	7+12+12+12	12+12+12+12

200 Combinations

GWHD(42)NK3AO (2 to 5)	Two units		Three units		Four units				Five units				
	7+18	—	7+7+7	7+21+21	12+12+12	7+7+7+7	7+7+21+21	7+12+12+21	9+9+18+24	7+7+7+7+7	7+7+9+9+12	7+9+9+9+24	9+9+9+12+21
	7+21	—	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+9+9+12+12	9+9+9+18+18
	7+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+21	7+7+7+12+12	7+9+9+12+18	9+9+12+12+12	—
	9+12	—	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+18+18	7+7+9+9+24	7+9+9+12+21	9+9+12+12+18
	9+18	—	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+21+21	7+7+9+12+12	7+9+9+12+24	9+9+12+12+21
	9+21	—	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+24+24	7+7+9+12+18	7+9+9+18+18	9+12+12+12+12
	9+24	—	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	7+9+12+12+12	9+12+12+12+18
	12+12	—	7+9+12	9+9+24	12+21+21	7+7+9+12	7+9+12+12	9+9+9+9	9+12+18+21	7+7+7+9+12	7+7+9+12+24	7+9+12+12+18	12+12+12+12+12
	12+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	7+9+12+12+21	—
	12+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+9+18+21	7+12+12+12+12	—
	12+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+12	7+12+12+12+18	—
	18+18	—	7+12+12	9+12+24	18+18+21	7+7+12+12	7+9+18+18	9+9+9+12	12+12+12+18	7+7+7+12+12	7+7+9+18+18	7+9+12+12+18	—
	18+21	—	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+12+21	9+9+9+9+12	—
	18+24	—	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+7+12+18+18	9+9+9+9+18	—
21+21	—	7+12+24	9+18+24	21+21+21	7+7+12+24	7+9+12+21	9+9+12+21	12+12+18+18	7+7+7+12+24	7+9+9+9+9	9+9+9+9+21	—	
21+24	—	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+12	9+9+9+9+24	—	
24+24	—	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+18	9+9+9+12+12	—	
—	—	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+21	9+9+9+12+18	—	

MULTI-VRF

Super Free-match



Capacity range from 12kw to 16kw can be widely used in residential house, hotel, business office and especially applicable in variable loading situation.



FXA**

FXB**



High efficiency



Intelligent defrosting



Comprehensive protection



Compact design



Easier maintainability



Inner groove copper



Turbo function



Self-diagnosis



Low voltage startup



Centralized control



Long-distance monitoring



Wide operation range



Memory function



Wide voltage range



24 hour timer



Weekly timer



Child lock

- Power supply startup delay design, lower the unit starting current.
- High efficiency thanks to DC inverter compressor.
- The lowest noise thanks to advanced technology.
- The system could run stably under hard operation conditions.
- Connection pipe up to 145 meter length that convenient on installation.

Item	Nominal operating condition(temperature)				Operation range(temperature)
	Outdoor condition		Indoor condition		Outdoor condition
	DB(°C)	WB(°C)	DB(°C)	WB(°C)	
Cooling	35	24	27	19	18~48
Heating	7	6	20	15	-10~24

Indoor Units Lineup

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

163 Combinations

	Two units	Three units	Four units	Five units	Six units
7+18	7+7+7	7+18+24	9+21+24	7+7+7+7	7+7+18+18+21
7+21	7+7+9	7+21+21	12+12+12	7+7+7+9	7+7+18+24
7+24	7+7+12	7+21+24	12+12+18	7+7+7+12	7+9+9+9
9+12	7+7+18	7+24+24	12+12+21	7+7+7+18	7+9+9+12
9+18	7+7+21	9+9+9	12+12+24	7+7+7+21	7+7+7+7+18
9+21	7+7+24	9+9+12	12+18+18	7+7+7+24	7+7+7+7+21
9+24	7+9+9	9+9+18	12+18+21	7+7+9+9	7+7+7+7+9+9
12+12	7+9+12	9+9+21	12+18+24	7+7+9+12	7+7+7+7+9+12
12+18	7+9+18	9+9+24	12+21+21	7+7+9+18	7+7+7+7+9+18
12+21	7+9+21	9+12+12	-	7+7+9+21	7+7+7+7+9+21
12+24	7+9+24	9+12+18	-	7+7+9+24	7+7+7+7+9+24
18+18	7+12+12	9+12+21	-	7+7+9+18	7+7+7+7+9+18
18+21	7+12+18	9+12+24	-	7+7+12+12	7+7+7+7+9+21
18+24	7+12+21	9+18+18	-	7+7+12+18	7+7+7+7+9+24
21+21	7+12+24	9+18+21	-	7+7+12+21	7+7+7+7+9+18
21+24	7+18+18	9+18+24	-	7+7+12+24	7+7+7+7+9+21
24+24	7+18+21	9+21+21	-	7+7+18+18	7+7+7+7+9+24

288 Combinations

	Two units	Three units	Four units
7+18	7+7+12	9+9+9	12+18+18
7+21	7+7+18	9+9+12	12+18+21
7+24	7+7+21	9+9+18	12+18+24
9+18	7+7+24	9+9+21	12+21+21
9+21	7+9+9	9+9+24	12+21+24
9+24	7+9+12	9+12+12	12+24+24
12+12	7+9+18	9+12+18	18+18+18
12+18	7+9+21	9+12+21	18+18+21
12+21	7+9+24	9+12+24	18+18+24
12+24	7+12+12	9+18+18	18+21+21
18+18	7+12+18	9+18+21	18+21+24
18+21	7+12+21	9+18+24	21+21+21
18+24	7+12+24	9+21+21	-
21+21	7+18+18	9+21+24	-
21+24	7+18+21	9+24+24	-
24+24	7+18+24	12+12+12	-
-	7+21+21	12+12+18	-
-	7+21+24	12+12+21	-
-	7+24+24	12+12+24	-

MULTI-VRF

288 Combinations

	Five units			Six units			Seven units			Eight units		
7+7+7+7+7	7+7+9+9+12	7+9+9+12+24	9+9+9+12+12	7+7+7+7+7	7+7+7+9+9+21	7+9+9+9+9+21	7+7+7+7+7+7	7+7+7+7+7+7	7+9+9+9+9+9	7+9+9+9+9+9	7+9+9+9+9+9	
7+7+7+7+9	7+7+9+9+18	7+9+9+12+12	9+9+9+12+18	7+7+7+7+9	7+7+7+9+9+24	7+9+9+9+12+12	7+7+7+7+7+9	7+7+7+7+7+9	7+9+9+9+9+12	7+9+9+9+9+12	7+9+9+9+9+12	
7+7+7+7+12	7+7+9+9+21	7+9+9+12+18	9+9+9+12+21	7+7+7+7+12	7+7+7+9+12+12	7+9+9+9+12+18	7+7+7+7+7+12	7+7+7+7+7+12	7+9+9+9+9+18	7+9+9+9+9+18	7+9+9+9+9+18	
7+7+7+7+18	7+7+9+9+24	7+9+9+12+21	9+9+9+12+24	7+7+7+7+18	7+7+7+9+12+12	7+9+9+9+12+12	7+7+7+7+7+18	7+7+7+7+7+18	7+9+9+9+9+21	7+9+9+9+9+21	7+9+9+9+9+21	
7+7+7+7+21	7+7+9+9+24	7+9+9+12+24	9+9+9+18+18	7+7+7+7+21	7+7+7+9+12+18	7+9+9+9+12+12	7+7+7+7+7+21	7+7+7+7+7+21	7+9+9+9+9+24	7+9+9+9+9+24	7+9+9+9+9+24	
7+7+7+7+24	7+7+9+9+24	7+9+9+12+18	9+9+9+12+18	7+7+7+7+24	7+7+7+9+12+21	7+9+9+9+9+9	7+7+7+7+7+24	7+7+7+7+7+24	7+9+9+9+9+24	7+9+9+9+9+24	7+9+9+9+9+24	
7+7+7+9+9	7+7+9+9+12	7+9+9+12+21	9+9+9+12+21	7+7+7+9+9	7+7+7+9+9+9	7+9+9+9+9+12	7+7+7+7+9+9	7+7+7+7+9+9	7+9+9+9+9+12	7+9+9+9+9+12	7+9+9+9+9+12	
7+7+7+9+12	7+7+9+9+18	7+9+9+12+24	9+9+9+12+24	7+7+7+9+12	7+7+7+9+12+18	7+9+9+9+9+18	7+7+7+7+9+12	7+7+7+7+9+12	7+9+9+9+9+18	7+9+9+9+9+18	7+9+9+9+9+18	
7+7+7+9+18	7+7+9+9+21	7+9+9+12+18	9+9+9+12+21	7+7+7+9+18	7+7+7+9+18+9	7+9+9+9+9+21	7+7+7+7+9+18	7+7+7+7+9+18	7+9+9+9+9+21	7+9+9+9+9+21	7+9+9+9+9+21	
7+7+7+9+21	7+7+9+9+24	7+9+9+12+24	9+9+9+12+24	7+7+7+9+21	7+7+7+9+21+9	7+9+9+9+9+24	7+7+7+7+9+21	7+7+7+7+9+21	7+9+9+9+9+24	7+9+9+9+9+24	7+9+9+9+9+24	
7+7+7+9+24	7+7+9+9+24	7+9+9+12+18	9+9+9+12+18	7+7+7+9+24	7+7+7+9+24+9	7+9+9+9+9+24	7+7+7+7+9+24	7+7+7+7+9+24	7+9+9+9+9+24	7+9+9+9+9+24	7+9+9+9+9+24	
7+7+7+12+12	7+7+9+9+12	7+9+9+12+21	9+9+9+12+21	7+7+7+12+12	7+7+7+9+9+9	7+9+9+9+9+12	7+7+7+7+12+12	7+7+7+7+12+12	7+9+9+9+9+12	7+9+9+9+9+12	7+9+9+9+9+12	
7+7+7+12+18	7+7+9+9+18	7+9+9+12+24	9+9+9+12+24	7+7+7+12+18	7+7+7+9+9+12	7+9+9+9+9+18	7+7+7+7+12+18	7+7+7+7+12+18	7+9+9+9+9+18	7+9+9+9+9+18	7+9+9+9+9+18	
7+7+7+12+21	7+7+9+9+21	7+9+9+12+18	9+9+9+12+18	7+7+7+12+21	7+7+7+9+9+18	7+9+9+9+9+21	7+7+7+7+12+21	7+7+7+7+12+21	7+9+9+9+9+21	7+9+9+9+9+21	7+9+9+9+9+21	
7+7+7+12+24	7+7+9+9+24	7+9+9+12+24	9+9+9+12+24	7+7+7+12+24	7+7+7+9+9+21	7+9+9+9+9+24	7+7+7+7+12+24	7+7+7+7+12+24	7+9+9+9+9+24	7+9+9+9+9+24	7+9+9+9+9+24	
7+7+7+18+18	7+7+9+9+12	7+9+9+12+21	9+9+9+12+21	7+7+7+18+18	7+7+7+9+9+12	7+9+9+9+9+12	7+7+7+7+18+18	7+7+7+7+18+18	7+9+9+9+9+12	7+9+9+9+9+12	7+9+9+9+9+12	
7+7+7+18+21	7+7+9+9+18	7+9+9+12+24	9+9+9+12+24	7+7+7+18+21	7+7+7+9+9+18	7+9+9+9+9+18	7+7+7+7+18+21	7+7+7+7+18+21	7+9+9+9+9+18	7+9+9+9+9+18	7+9+9+9+9+18	
7+7+7+18+24	7+7+9+9+21	7+9+9+12+18	9+9+9+12+18	7+7+7+18+24	7+7+7+9+9+21	7+9+9+9+9+21	7+7+7+7+18+24	7+7+7+7+18+24	7+9+9+9+9+21	7+9+9+9+9+21	7+9+9+9+9+21	
7+7+7+18+24	7+7+9+9+24	7+9+9+12+24	9+9+9+12+24	7+7+7+18+24	7+7+7+9+9+24	7+9+9+9+9+24	7+7+7+7+18+24	7+7+7+7+18+24	7+9+9+9+9+24	7+9+9+9+9+24	7+9+9+9+9+24	
7+7+7+9+9	7+7+9+9+12	7+9+9+12+21	9+9+9+12+21	7+7+7+9+9	7+7+7+9+9+9	7+9+9+9+9+12	7+7+7+7+9+9	7+7+7+7+9+9	7+9+9+9+9+12	7+9+9+9+9+12	7+9+9+9+9+12	
7+7+7+9+12	7+7+9+9+18	7+9+9+12+24	9+9+9+12+24	7+7+7+9+12	7+7+7+9+12+18	7+9+9+9+9+18	7+7+7+7+9+12	7+7+7+7+9+12	7+9+9+9+9+18	7+9+9+9+9+18	7+9+9+9+9+18	
7+7+7+9+18	7+7+9+9+21	7+9+9+12+18	9+9+9+12+18	7+7+7+9+18	7+7+7+9+18+9	7+9+9+9+9+21	7+7+7+7+9+18	7+7+7+7+9+18	7+9+9+9+9+21	7+9+9+9+9+21	7+9+9+9+9+21	
7+7+7+9+21	7+7+9+9+24	7+9+9+12+24	9+9+9+12+24	7+7+7+9+21	7+7+7+9+21+9	7+9+9+9+9+24	7+7+7+7+9+21	7+7+7+7+9+21	7+9+9+9+9+24	7+9+9+9+9+24	7+9+9+9+9+24	
7+7+7+9+24	7+7+9+9+24	7+9+9+12+18	9+9+9+12+18	7+7+7+9+24	7+7+7+9+24+9	7+9+9+9+9+24	7+7+7+7+9+24	7+7+7+7+9+24	7+9+9+9+9+24	7+9+9+9+9+24	7+9+9+9+9+24	

GWHD(48S)NK3CO
(2 to 8)
GWHD(48S)NM3CO
(2 to 8)

448 Combinations

	Two units		Three units			Four units					
7+18	7+7+18	7+21+24	9+24+24	18+21+24	7+7+7+7	7+7+12+24	7+9+12+24	7+12+21+24	9+9+12+21	9+12+21+21	12+12+18+24
7+21	7+7+21	7+24+24	12+12+12	18+24+24	7+7+7+9	7+7+18+18	7+9+18+18	7+18+18+18	9+9+12+24	9+12+21+24	12+12+21+24
7+24	7+7+24	9+9+12	12+12+18	21+21+21	7+7+7+12	7+7+18+21	7+9+18+21	7+18+18+21	9+9+18+18	9+12+24+24	12+12+21+24
9+18	7+9+12	9+9+18	12+12+21	21+21+24	7+7+7+18	7+7+18+24	7+9+18+24	7+18+18+24	9+9+18+21	9+18+18+18	12+12+24+24
9+21	7+9+18	9+9+21	12+12+24	21+24+24	7+7+7+21	7+7+21+21	7+9+21+21	7+18+21+21	9+9+18+24	9+18+18+21	12+18+18+18
9+24	7+9+21	9+9+24	12+18+18	24+24+24	7+7+7+24	7+7+24+24	7+9+24+24	7+18+21+24	9+9+21+21	9+18+18+24	12+18+18+21
12+18	7+9+24	9+12+12	12+18+21	-	7+7+9+9	7+7+24+24	7+9+24+24	7+18+24+24	9+9+21+24	9+18+21+21	12+18+18+24
12+21	7+12+12	9+12+18	12+18+24	-	7+7+9+9	7+9+9+9	7+12+12+12	7+21+21+21	9+9+24+24	9+18+21+24	12+18+21+21
12+24	7+12+18	9+12+21	12+21+21	-	7+7+9+12	7+9+9+12	7+12+12+18	9+12+12+12	9+12+12+12	9+21+21+21	18+18+18+18
18+18	7+12+21	9+12+24	12+21+24	-	7+7+9+18	7+9+9+18	7+12+12+21	9+9+9+12	9+12+12+18	12+12+12+12	-
18+21	7+12+24	9+18+18	12+24+24	-	7+7+9+21	7+9+9+21	7+12+12+24	9+9+9+18	9+12+12+21	12+12+12+18	-
18+24	7+18+18	9+18+21	18+18+18	-	7+7+9+24	7+9+9+24	7+12+18+18	9+9+9+21	9+12+12+24	12+12+12+21	-
21+21	7+18+21	9+18+24	18+18+21	-	7+7+12+12	7+9+12+12	7+12+18+21	9+9+9+24	9+12+18+18	12+12+12+24	-
21+24	7+18+24	9+21+21	18+18+24	-	7+7+12+18	7+9+12+18	7+12+18+24	9+9+12+12	9+12+18+21	12+12+18+18	-
24+24	7+21+21	9+21+24	18+21+21	-	7+7+12+21	7+9+12+21	7+12+21+21	9+9+12+18	9+12+18+24	12+12+18+21	-

GWHD(56S)NK3CO
(2 to 9)
GWHD(56S)NM3CO
(2 to 9)

	Five units				Six units			
7+7+7+7+7	7+7+9+9+9	7+7+12+12+21	7+9+12+12+24	9+9+9+18+18	12+12+12+12+18	7+7+7+7+7+7	7+7+7+9+9+12+12	7+7+9+9+12+18
7+7+7+7+9	7+7+9+9+12	7+7+12+12+24	7+9+12+18+18	9+9+9+18+21	12+12+12+12+21	7+7+7+7+7+9	7+7+7+9+9+12+12	7+7+9+9+12+21
7+7+7+7+12	7+7+9+9+18	7+7+18+18+18	7+9+12+18+21	9+9+9+18+24	12+12+12+12+24	7+7+7+7+7+12	7+7+7+9+9+12+18	7+7+9+9+12+24
7+7+7+7+18	7+7+9+9+21	7+7+18+18+24	7+9+12+18+24	9+9+9+21+21	12+12+12+18+18	7+7+7+7+7+18	7+7+7+9+9+12+21	7+7+9+9+18+18
7+7+7+7+21	7+7+9+9+24	7+9+9+9+9	7+9+12+21+21	9+9+9+21+24	-	7+7+7+7+7+21	7+7+7+9+9+12+24	7+7+9+9+18+21
7+7+7+7+24	7+7+9+9+12	7+9+9+9+12	7+9+18+18+18	9+9+12+12+12	-	7+7+7+7+7+24	7+7+7+9+9+18+18	7+7+9+12+12+12
7+7+7+9+9	7+7+9+9+18	7+9+9+9+18	7+12+12+12+12	9+9+12+12+18	-	7+7+7+7+9+9	7+7+7+9+9+18+21	7+7+9+12+12+18
7+7+7+9+12	7+7+9+9+21	7+9+9+9+21	7+12+12+12+18	9+9+12+12+21	-	7+7+7+7+9+12	7+7+7+9+9+18+24	7+7+9+12+12+21
7+7+7+9+18	7+7+9+9+24	7+9+9+9+24	7+12+12+12+21	9+9+12+12+24	-	7+7+7+7+9+18	7+7+7+9+9+21+21	7+7+9+12+12+24
7+7+7+9+21	7+7+9+9+18	7+9+9+9+18	7+12+12+12+24	9+9+12+18+18	-	7+7+7+7+9+21	7+7+7+9+9+12+12	7+7+9+12+18+18
7+7+7+9+24	7+7+9+9+12	7+9+9+9+12	7+12+12+18+18	9+9+12+18+21	-	7+7+7+7+9+24	7+7+7+9+9+12+18	7+7+9+9+9+9
7+7+7+12+12	7+7+9+9+18	7+9+9+9+18	7+12+12+18+21	9+9+12+18+24	-	7+7+7+7+12+12	7+7+7+9+9+12+21	7+9+9+9+9+12
7+7+7+12+18	7+7+9+9+21	7+9+9+9+21	7+12+12+18+24	9+9+12+18+24	-	7+7+7+7+12+18	7+7+7+9+9+12+24	7+9+9+9+9+18
7+7+7+12+21	7+7+9+9+24	7+9+9+9+24	9+9+9+9+12	9+9+18+18+18	-	7+7+7+7+12+21	7+7+7+9+9+12+18	7+9+9+9+9+21
7+7+7+12+24	7+7+9+9+18	7+9+9+9+18	9+9+9+9+18	9+12+12+12+12	-	7+7+7+7+12+24	7+7+7+9+9+12+21	7+9+9+9+9+24
7+7+7+18+18	7+7+9+9+12	7+9+9+9+12	9+9+9+9+12	9+9+12+12+18	-	7+7+7+7+18+18	7+7+9+9+9+9	7+9+9+9+12+12
7+7+7+18+21	7+7+9+9+18	7+9+9+9+18	9+9+9+9+18	9+12+12+12+21	-	7+7+7+9+9+9	7+7+9+9+9+12	7+9+9+9+12+18
7+7+7+18+24	7+7+9+9+21	7+9+9+9+21	9+9+9+9+21	9+12+12+12+24	-	7+7+7+9+9+12	7+7+9+9+9+18	7+9+9+9+12+24
7+7+7+21+21	7+7+9+9+18	7+9+9+9+18	9+9+9+9+18	9+12+12+18+18	-	7+7+7+9+9+18	7+7+9+9+9+21	7+9+9+9+12+24
7+7+7+21+24	7+7+9+9+24	7+9+9+9+24	9+9+9+9+24	9+12+12+18+21	-	7+7+7+9+9+21	7+7+9+9+9+24	7+9+9+9+18+18
7+7+7+24+24	7+7+9+9+12	7+9+9+9+12	9+9+9+9+12	12+12+12+12+12	-	7+7+7+9+9+24	7+7+9+9+9+24	7+9+9+9+12+12

GWHD(56S)NK3CO
(2 to 9)
GWHD(56S)NM3CO
(2 to 9)

	Six units		Seven units			Eight units			Nine units		
7+9+9+12+12+18	9+9+12+12+12+18	7+7+7+7+7+7+7	7+7+7+7+9+9+21	7+7+9+9+9+9+12	7+7+7+7+7+7+7	7+7+7+9+9+9+9	7+7+7+7+7+7+7	7+7+7+7+7+7+7	7+7+7+7+7+7+7	7+7+7+7+7+7+7	
7+9+9+12+12+21	9+12+12+12+12+12	7+7+7+7+7+7+9	7+7+7+7+9+9+24	7+7+9+9+9+9+18	7+7+7+7+7+7+9	7+7+7+9+9+9+12	7+7+7+7+7+7+9	7+7+7+7+7+7+9	7+7+7+7+7+7+9	7+7+7+7+7+7+9	
7+9+9+12+12+24	12+12+12+12+12+12	7+7+7+7+7+7+12	7+7+7+7+9+9+12+12	7+7+9+9+9+9+21	7+7+7+7+7+7+12	7+7+7+9+9+9+18	7+7+7+7+7+7+12	7+7+7+7+7+7+12	7+7+7+7+7+7+12	7+7+7+7+7+7+12	
7+9+12+12+12+18	-	7+7+7+7+7+7+18	7+7+7+7+9+9+12+18	7+7+9+9+9+9+12+12	7+7+7+7+7+7+18	7+7+7+9+9+9+12+12	7+7+7+7+7+7+18	7+7+7+7+7+7+18	7+7+7+7+7+7+18	7+7+7+7+7+7+18	
7+12+12+12+12+12	-	7+7+7+7+7+7+21	7+7+7+7+9+9+12+21	7+7+9+9+9+9+12+18	7+7+7+7+7+7+21	7+7+7+9+9+9+12+18	7+7+7+7+7+7+21	7+7+7+7+7+7+21	7+7+7+7+7+7+21	7+7+7+7+7+7+21	
9+9+9+9+9+9	-	7+7+7+7+7+7+24	7+7+7+7+9+9+12+24	7+7+9+9+9+9+12+12+12	7+7+7+7+7+7+24	7+7+7+9+9+9+12+12+12	7+7+7+7+7+7+24	7+7+7+7+7+7+24	7+7+7+7+7+7+24	7+7+7+7+7+7+24	
9+9+9+9+9+12	-	7+7+7+7+7+7+9	7+7+7+7+9+9+12+9	7+7+9+9+9+9+12+12+12	7+7+7+7+7+7+9	7+7+7+					

Wall Mounted Indoor Unit

U-Cool

Model			GWH(07)UA-K3DNA1B/I	GWH(09)UA-K3DNA1B/I	GWH(12)UB-K3DNA1B/I	GWH(18)UC-K3DNA1B/I
Capacity	Cooling	BTU/h	7167	8874	11946	18089
	Heating	BTU/h	8874	9556	12969	19795
Power supply	PhV/Hz		1/220~240/50	1/220~240/50	1/220~240/50	1/220~240/50
Airflow volume	m³/h		450	450	560	850
	CFM		265	265	329	500
Sound pressure level (SH/H/MH/MM/ML/SL)	dB(A)		37/35/32/30/28/26/24	38/34/32/29/27/25/22	39/36/34/31/29/27/23	44/40/37/35/33/31/28
Connecting pipe	Gas	inch(mm)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)	φ1/2(12.7)
	Liquid	inch(mm)	φ1/4(6.35)	φ1/4(6.35)	φ1/4(6.35)	φ1/4(6.35)
Dimension(WxHxD)	Outline	mm	860X153X299	860X153X299	896X159X320	998X178X340
	Package	mm	944X247X386	944X247X386	973X255X403	1083X283X428
Net weight/Gross weight	kg		9.5/12.5	9.5/12.5	11.5/14.5	15/19
Loading quantity	20' GP	set	324	324	279	216
	40' GP/40' HQ	set	666/740	666/740	585/650	440/495

Cozy

Model			GWH(07)MA-K3DNA3E/I	GWH(09)MA-K3DNA3E/I	GWH(12)MB-K3DNA3E/I	GWH(18)MC-K3DNA3E/I
Capacity	Cooling	BTU/h	7167	8874	11946	18089
	Heating	BTU/h	8874	9556	12969	19795
Power supply	PhV/Hz		1/220~240/50	1/220~240/50	1/220~240/50	1/220~240/50
Airflow volume	m³/h		450	500	630	850
	CFM		265	294	371	500
Sound pressure level (SH/H/M/L)	dB(A)		36/34/31/28	37/34/31/28	38/34/32/30	46/43/40/36
Connecting pipe	Gas	inch(mm)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)	φ1/2(12.7)
	Liquid	inch(mm)	φ1/4(6.35)	φ1/4(6.35)	φ1/4(6.35)	φ1/4(6.35)
Dimension(WxHxD)	Outline	mm	790X170X265	790x170x265	845x180x275	940x200x298
	Package	mm	873X251X370	873x251x370	918x258x370	1013x288x395
Net weight/Gross weight	kg		9/11	9/11	10/12.5	13/16
Loading quantity	20' GP	set	348	348	336	254
	40' GP/40' HQ	set	732/852	732/852	684/798	541/609

Change

Model			GWH(07)KF-K3DNA6E/I	GWH(09)KF-K3DNA6E/I	GWH(12)KF-K3DNA6E/I	GWH(18)KG-K3DNA6E/I
Capacity	Cooling	BTU/h	7167	8874	11946	18089
	Heating	BTU/h	8874	9556	12969	19795
Power supply	PhV/Hz		1/220~240/50	1/220~240/50	1/220~240/50	1/220~240/50
Airflow volume	m³/h		550	600	680	800
	CFM		324	353	400	471
Sound pressure level (SH/H/M/L)	dB(A)		40/38/30/24	41/38/30/24	42/39/31/25	45/40/37/32
Connecting pipe	Gas	inch(mm)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)	φ1/2(12.7)
	Liquid	inch(mm)	φ1/4(6.35)	φ1/4(6.35)	φ1/4(6.35)	φ1/4(6.35)
Dimension(WxHxD)	Outline	mm	700X201X283	770X201X283	770X201X283	865X215X305
	Package	mm	847X264X357	847X264X357	847X264X357	948X298X395
Net weight/Gross weight	kg		8/10	8/10	9/11	12/15
Loading quantity	20' GP	set	336	336	336	264
	40' GP/40' HQ	set	696/783	696/783	696/783	542/616

Hansol

Model			GWH(07)TA-K3DNA1E/I	GWH(09)TA-K3DNA1E/I	GWH(12)TB-K3DNA1E/I	GWH(18)TC-K3DNA1E/I
Capacity	Cooling	BTU/h	7167	8533	11946	18089
	Heating	BTU/h	8874	9386	12457	19113
Power supply	PhV/Hz		1/220~240/50	1/220~240/50	1/220~240/50	1/220~240/50
Airflow volume	m³/h		550	550	770	950
	CFM		324	324	430	559
Sound pressure level(SH/H/MH/MM/ML/SL)	dB(A)		41/36/34/32/28/24/21	41/36/34/32/28/24/21	43/36/34/32/28/24/21	49/44/41/39/36/33/30
Connecting pipe	Gas	inch(mm)	φ3/8(9.52)	φ3/8(9.52)	φ1/2(12.7)	φ5/8(15.9)
	Liquid	inch(mm)	φ1/4(6.35)	φ1/4(6.35)	φ1/4(6.35)	φ1/4(6.35)
Dimension(WxHxD)	Outline	mm	806x209x292	806x209x292	866x209x292	1018x230x319
	Package	mm	888x297x377	888x297x377	945x297x377	1097x397x340
Net weight/Gross weight	kg		10.5/13.0	10.5/13.0	11.0/13.5	15.0/18.5
Loading quantity	20' GP	set	266	266	252	174
	40' GP/40' HQ	set	553/632	553/632	518/592	366/427

Viola

Model			GWH(07)RA-K3DNA3E/I	GWH(09)RA-K3DNA3E/I	GWH(12)RB-K3DNA3E/I	GWH(18)RC-K3DNA3E/I	GWH(24)RC-K3DNA3E/I
Capacity	Cooling	BTU/h	7167	8874	11946	18089	22014
	Heating	BTU/h	8874	9556	12969	19795	24232
Power supply	PhV/Hz		1/220~240/50	1/220~240/50	1/220~240/50	1/220~240/50	1/220~240/50
Airflow volume	m³/h		500	500	630	850	1000
	CFM		294	294	371	500	588
Sound pressure level (SH/H/M/L)	dB(A)		40/37/35/32	40/37/35/32	42/39/36/33	45/42/37/33	48/46/44/42
Connecting pipe	Gas	inch(mm)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)	φ1/2(12.7)	φ5/8(15.9)
	Liquid	inch(mm)	φ1/4(6.35)	φ1/4(6.35)	φ1/4(6.35)	φ1/4(6.35)	φ3/8(9.52)
Dimension(WxHxD)	Outline	mm	794X186X265	794X186X265	848X189X274	945X208X298	1018X223X315
	Package	mm	873X270X353	873X270X353	926X279X359	1013X300X383	1086X328X398
Net weight/Gross weight	kg		9/11.5	9/11.5	10/12.5	13/16	15.5/20.5
Loading quantity	20' GP	set	348	348	306	254	174
	40' GP/40' HQ	set	720/840	720/840	636/742	541/609	366/427

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	8533	11946	17065	20478	24232
	Heating	BTU/h	9556	13140	18772	22526	27304
Power supply	PhV/Hz		1/220~240/50	1/220~240/50	1/220~240/50	1/220~240/50	1/220~240/50
Airflow volume	m³/h		450	550	700	1000	1000
	CFM		265	324	412	588	588
Sound pressure level (H/L)	dB(A)		37/31	39/32	41/33	42/34	42/34
Connecting pipe	Gas	inch(mm)	φ3/8(9.52)	φ3/8(9.52)	φ1/2(12.7)	φ5/8(15.9)	φ5/8(15.9)
	Liquid	inch(mm)	φ1/4(6.35)	φ1/4(6.35)	φ1/4(6.35)	φ3/8(9.52)	φ3/8(9.52)
Dimension(WxHxD)	Outline	mm	700X200X615	700X200X615	900X200X615	1100X200X615	1100X200X615
	Package	mm	893X305X743	893X305X743	1123X305X743	1323X305X743	1323X305X743
Net weight/Gross weight	kg		22/27	23/29	27/36	31/41	31/41
Loading quantity	20' GP	set	108	108	90	72	72
	40' GP/40' HQ	set	234/234	234/234	180/180	162/162	162/162

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	11946	15359	11946	17065	24232
	Heating	BTU/h	13652	17065	13140	18772	27304
Power supply	PhV/Hz		1/220~240/50	1/220~240/50	1/220~240/50	1/220~240/50	1/220~240/50
Airflow volume	m³/h		600	600	680	680	1180
	CFM		353	353	400	400	694
Sound pressure level (H/L)	dB(A)		46/42	46/42	37/33	37/33	39/35
Connecting pipe	Gas	inch(mm)	φ3/8(9.52)	φ1/2(12.7)	φ3/8(9.52)	φ1/2(12.7)	φ5/8(15.9)
	Liquid	inch(mm)	φ1/4(6.35)	φ1/4(6.35)	φ1/4(6.35)	φ1/4(6.35)	φ3/8(9.52)
Main Body	Dimension (WxHxD)	mm	570x230x570	570x230x570	840x190x840	840x190x840	840x190x840
	Package	mm	851x325x731	851x325x731	960x273x963	960x273x963	960x273x963
Net weight/Gross weight	kg		18/23	18/23	25/33	25/33	28/35
Panel	Dimension (WxHxD)	mm	650x50x650	650x50x650	950x60x950	950x60x950	950x60x950
	Package	mm	733x117x673	733x117x673	1043x130x1028	1043x130x1028	1043x130x1028
Net weight/Gross weight	kg		2.5/3.5	2.5/3.5	6.5/10	6.5/10	6.5/10
Loading quantity	40' GP/40' HQ	set	209/246	209/246	128/144	128/144	108/128

Floor Ceiling Type Indoor Unit

Model			GTH(09)BA-K3DNA1A/I	GTH(12)BA-K3DNA1A/I	GTH(18)BA-K3DNA1A/I	GTH(24)BA-K3DNA1A/I
Capacity	Cooling	BTU/h	8533	11946	17065	24232
	Heating	BTU/h	9556	13140	18772	27304
Power supply	PhV/Hz		1/220~240/50	1/220~240/50	1/220~240/50	1/220~240/50
Airflow volume	m³/h		650	650	950	1250
	CFM		382	382	559	735
Sound pressure level (H/L)	dB(A)		40/36	40/36	45/40	48/44
Connecting pipe	Gas	inch(mm)	φ3/8(9.52)	φ3/8(9.52)	φ1/2(12.7)	φ5/8(15.9)
	Liquid	inch(mm)	φ1/4(6.35)	φ1/4(6.35)	φ1/4(6.35)	φ3/8(9.52)
Dimension(WxHxD)	Outline	mm	1220X700X225	1220X700X225	1220X700X225	1220X700X225
	Package	mm	1343X823X315	1343X823X315	1343X823X315	1343X823X315
Net weight/Gross weight	kg		40/50	40/50	40/50	40/50
Loading quantity	20' GP	set	66	66	66	66
	40' GP/40' HQ	set	132/132	132/132	132/132	132/132

Console Type Indoor Unit

Model		GEH(09)AA-K3DNA1C/I	GEH(12)AA-K3DNA1C/I	GEH(18)AA-K3DNA1C/I
Capacity	Cooling	8874	11946	18089
	Heating	9556	12969	19795
Power supply		PhV/Hz	1/220~240/50	1/220~240/50
Airflow volume		m ³ /h	650	840
		CFM	382.3529412	441
Sound pressure level (SH/H/MH/M/ML/SL)		dB(A)	40/38/36/33/30/27/25	42/40/38/37/35/32/25
Connecting pipe		Gas	inch(mm)	φ3/8(9.52)
		Liquid	inch(mm)	φ1/4(6.35)
Dimension(WxHxD)		Outline	mm	700X600X215
		Package	mm	791X710X286
Net weight/Gross weight		kg	15/18	15/18
Loading quantity		20' GP	set	168
		40' GP/40' HQ	set	348/440

Control System Lineup

Controlling system		Product series		Wall mounted type					Duct type	Cassette type	Floor ceiling type	Console type
				Hansol	U-Cool	Cozy	Change	Viola				
Wireless remote controller	YAA1FB1			●							●	
	YT1F(MOTO)				●		●	●				
	YAG1FB		●									
	YB1F2 (XFAN)					●						
Wired controller	XK19						●	●	●			
Centralized controller	CE50-24/E						○	○	○			

Note:
 ● means standard, ○ means optional.
 * If Long-distance monitoring software Gree Eude mon 2009 is selected, the communication module ME30-00/E2 shall be selected also. The quantity of the module shall be confirm according to the quantity of outdoor units.

All DC Inverter VRF Air Conditioning System



Gree GMV5 All DC Inverter VRF adopts high-efficient DC inverter compressor and DC inverter fan motor. They can be combined modularly from 8HP to 64HP. Maximum capacity can up to 180kW.

GMV5



GMV5 Mini



- All DC inverter technology
- Energy saving function
- Quiet function
- Human engineering operation
- Intelligent Management
- Long connection pipe design
- Wide operation range
- Modular operating*
- High ESP
- Comprehensive protection

- Outdoor unit quiet mode.
- Oil balance between compressors.
- High energy efficiency with high-performance compressor; Long connection pipe design with the maximum length of 1000m.
- Auto switch of module status in every 8hrs, which greatly improves the reliability of complete unit.
- 4 levels of static pressure for option with the maximum of 80Pa.

Max. piping length (meter)	
Total piping length	1000m
Actual piping length	165m
Equivalent piping length	190m
Height difference between indoor units	30m
Height difference between ODU and IDU (ODU is located above the IDU)	50m
Height difference between ODU and IDU (ODU is located above the IDU)	90m
Piping length from first indoor branch to the farthest IDU	40m

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	-	27	19	-5~50
Heating	7	6	20	-	-20~24

Outdoor Units Lineup

MODEL		GMV-224WM/B-X (8HP)	GMV-280WM/B-X (10HP)	GMV-335WM/B-X (12HP)	GMV-400WM/B-X (14HP)	GMV-450WM/B-X (16HP)
	GMV-224WM/B-X (8HP)	●				
	GMV-280WM/B-X (10HP)		●			
	GMV-335WM/B-X (12HP)			●		
	GMV-400WM/B-X (14HP)				●	
	GMV-450WM/B-X (16HP)					●
	GMV-504WM/B-X (18HP)	●	●			
	GMV-560WM/B-X (20HP)		●●			
	GMV-615WM/B-X (22HP)		●	●		
	GMV-680WM/B-X (24HP)		●		●	
	GMV-730WM/B-X (26HP)		●			●
	GMV-785WM/B-X (28HP)			●		●
	GMV-850WM/B-X (30HP)				●	●
	GMV-900WM/B-X (32HP)					●●
	GMV-960WM/B-X (34HP)		●●		●	
	GMV-1010WM/B-X (36HP)		●●			●
	GMV-1065WM/B-X (38HP)		●	●		●
	GMV-1130WM/B-X (40HP)		●		●	●
	GMV-1180WM/B-X (42HP)		●			●●
	GMV-1235WM/B-X (44HP)			●		●●
	GMV-1300WM/B-X (46HP)				●	●●
	GMV-1350WM/B-X (48HP)					●●●
	GMV-1410WM/B-X (50HP)		●●		●	●
	GMV-1460WM/B-X (52HP)		●●			●●
	GMV-1515WM/B-X (54HP)		●	●		●●
	GMV-1580WM/B-X (56HP)		●		●	●●
	GMV-1630WM/B-X (58HP)		●			●●●
	GMV-1685WM/B-X (60HP)			●		●●●
	GMV-1750WM/B-X (62HP)				●	●●●
	GMV-1800WM/B-X (64HP)					●●●

GMV5 Mini

Model	Heat pump		GMV-H120WL/A-T	GMV-H140WL/A-T	GMV-H160WL/A-T
Capacity	Cooling/Heating	kW	12.1/14.0	14.0/16.5	16.0/18.5
EER/COP	Cooling/Heating	kW/kW	3.97/4.28	3.52/4.14	3.30/3.96
Power supply		PhV/Hz	1/220-240/50; 1/208-230/60		
Refrigerant charge volume		kg	5	5	5
Compressor qty.		—	DC×1	DC×1	DC×1
Sound pressure level		dB(A)	55	56	58
Dimension (WxDxH)	Outline	mm	900×340×1345	900×340×1345	900×340×1345
	Package	mm	998×458×1515	998×458×1515	998×458×1515
Net weight/Gross weight		kg	110/120	110/120	110/120
Connecting pipe	Gas	inch(mm)	φ5/8(15.9)	φ5/8(15.9)	φ3/4(19.05)
	Liquid	inch(mm)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)
Max. equivalent connection pipe length*		m	120	120	120
Maximum drive IDU NO.		unit	7	8	9
Loading quantity	40'GP	set	57	57	57
	40'HQ	set	57	57	57

GMV5

Model	Heat pump		GMV-224WM/B-X	GMV-280WM/B-X	GMV-335WM/B-X	GMV-400WM/B-X	GMV-450WM/B-X
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/COP	Cooling/Heating	kW/kW	4.11/4.31	3.84/4.01	3.84/3.87	3.60/3.91	3.42/3.68
Power supply		PhV/Hz	3Ph,380-415V,50/60Hz				
Power input	Cooling	kW	5.45	7.3	8.73	11.1	13.15
	Heating	kW	5.8	7.85	9.68	11.5	13.6
Refrigerant charge volume		kg	5.9	6.7	8.2	9.8	10.3
Compressor qty.		—	DC×1	DC×1	DC×1	DC×2	DC×2
Sound pressure level		dB(A)	60	61	63	63	63
Dimension (WxDxH)	Outline	mm	930×765×1605	930×765×1605	1340×765×1605	1340×765×1605	1340×765×1605
	Package	mm	1010×840×1775	1010×840×1775	1420×840×1775	1420×840×1775	1420×840×1775
Net weight/Gross weight		kg	225/235	225/235	285/300	360/375	360/375
Connecting pipe	Gas	inch(mm)	φ3/4(19.05)	φ7/8(22.2)	φ1(25.4)	φ1(25.4)	φ9/8(28.6)
	Liquid	inch(mm)	φ3/8(9.52)	φ3/8(9.52)	φ1/2(12.7)	φ1/2(12.7)	φ1/2(12.7)
	Oil balance	inch(mm)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)
Maximum drive IDU NO.		unit	13	16	19	23	26
Loading quantity	40'GP	set	24	24	16	16	16
	40'HQ	set	24	24	16	16	16

Indoor Units Lineup

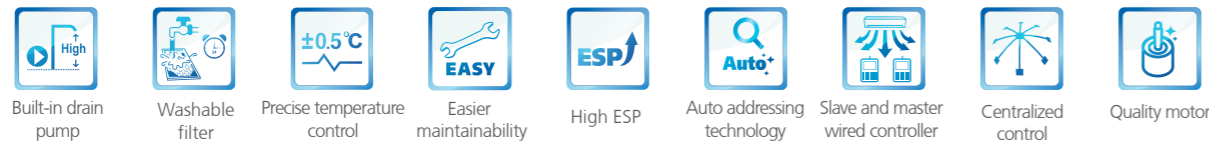
		Capacity Index (kw)	2.2	2.5	2.8	3.2	3.6	4.0	4.5	5.0	5.6	6.3	7.1	8.0	9.0	10.0	11.2	12.5	14.0	
Duct	High ESP type										●	●	●	●	●	●	●	●	●	
	Low ESP type		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Cassette	4-way				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	1-way				●	●	●	●	●	●										

Duct Type Indoor Unit

High ESP Series



Low ESP Series



High ESP Duct

Model			GMV-ND56PHS/A-T	GMV-ND63PHS/A-T	GMV-ND71PHS/A-T	GMV-ND80PHS/A-T	GMV-ND90PHS/A-T
Capacity	Cooling	kW	5.6	6.3	7.1	8.0	9.0
	Heating	kW	6.3	7.1	8.0	9.0	10.0
Power supply	PhV/Hz		1/220-240/50				
Motor power input	W		120	120	130	130	200
	m³/h		1000	1000	1100	1100	1700
Air flow volume	CFM		589	589	647	647	1001
	Pa		80	80	80	80	100
Standard Esp	Pa		80	80	80	80	100
Sound pressure level	dB(A)		41/45	41/45	41/45	41/45	44/48
	Outline	mm	1239×558×268	1239×558×268	1239×558×268	1239×558×268	1226×775×290
Dimension (WxDxH)	Package	mm	1348×597×283	1348×597×283	1348×597×283	1348×597×283	1338×877×305
	kg		35/40	35/40	35/40	35/40	47/54
Connecting pipe	Gas	inch(mm)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)
	Liquid	inch(mm)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)
Loading quantity	40'GP	set	144	144	144	144	96
	40'HQ	set	144	144	144	144	96

Model			GMV-ND100PHS/A-T	GMV-ND112PHS/A-T	GMV-ND125PHS/A-T	GMV-ND140PHS/A-T
Capacity	Cooling	kW	10.0	11.2	12.5	14.0
	Heating	kW	11.2	12.5	14.0	16.0
Power supply	PhV/Hz		1/220-240/50			
Motor power input	W		200	200	220	220
	m³/h		1700	1700	2000	2000
Air flow volume	CFM		1001	1001	1177	1177
	Pa		100	100	120	120
Standard Esp	Pa		100	100	120	120
Sound pressure level	dB(A)		44/48	44/48	46/50	46/50
	Outline	mm	1226×775×290	1226×775×290	1226×775×290	1226×775×290
Dimension (WxDxH)	Package	mm	1338×877×305	1338×877×305	1338×877×305	1338×877×305
	kg		47/54	47/54	47/54	47/54
Connecting pipe	Gas	inch(mm)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)
	Liquid	inch(mm)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)
Loading quantity	40'GP	set	96	96	96	96
	40'HQ	set	96	96	96	96

Low ESP Duct

Model			GMV-ND22PLS/A-T	GMV-ND25PLS/A-T	GMV-ND28PLS/A-T	GMV-ND32PLS/A-T	GMV-ND36PLS/A-T	GMV-ND40PLS/A-T
Capacity	Cooling	kW	2.2	2.5	2.8	3.2	3.6	4.0
	Heating	kW	2.5	2.8	3.2	3.6	4.0	4.5
Power supply	PhV/Hz		1/220-240/50					
Motor power input	W		35	35	35	43	43	52
	m³/h		450	450	450	550	550	700
Air flow volume	CFM		265	265	265	324	324	412
	Pa		10/30	10/30	10/30	10/30	10/30	10/30
Standard Esp	Pa		10/30	10/30	10/30	10/30	10/30	10/30
Sound pressure level	dB(A)		31/25	31/25	31/25	32/27	32/27	33/28
	Outline	mm	700×615×200	700×615×200	700×615×200	700×615×200	700×615×200	900×615×200
Dimension (WxDxH)	Package	mm	893×743×305	893×743×305	893×743×305	893×743×305	893×743×305	1123×743×305
	kg		22/27	22/27	22/27	22/28	22/28	27/33
Net weight/Gross weight	Gas	inch(mm)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)	φ1/2(12.7)	φ1/2(12.7)	φ1/2(12.7)
	Liquid	inch(mm)	φ1/4(6.35)	φ1/4(6.35)	φ1/4(6.35)	φ1/4(6.35)	φ1/4(6.35)	φ1/4(6.35)
Loading quantity	40'GP	set	234	234	234	234	234	192
	40'HQ	set	234	234	234	234	234	192

Model			GMV-ND45PLS/A-T	GMV-ND50PLS/A-T	GMV-ND56PLS/A-T	GMV-ND63PLS/A-T	GMV-ND71PLS/A-T	GMV-ND80PLS/A-T
Capacity	Cooling	kW	4.5	5.0	5.6	6.3	7.1	8.0
	Heating	kW	5.0	5.6	6.3	7.1	8.0	9.0
Power supply	PhV/Hz		1/220-240/50					
Motor power input	W		52	52	99	99	105	140
	m³/h		700	700	1000	1000	1000	1100
Air flow volume	CFM		412	412	589	589	589	647
	Pa		10/30	10/30	10/30	10/30	20/50	20/50
Standard Esp	Pa		10/30	10/30	10/30	10/30	20/50	20/50
Sound pressure level	dB(A)		33/28	33/28	35/30	35/30	35/30	36/31
	Outline	mm	900×615×200	900×615×200	1100×615×200	1100×615×200	1200×655×260	1200×655×260
Dimension (WxDxH)	Package	mm	1123×743×305	1123×743×305	1323×743×305	1323×743×305	1448×858×315	1448×858×315
	kg		27/33	27/33	31/38	31/38	40/47	40/47
Net weight/Gross weight	Gas	inch(mm)	φ1/2(12.7)	φ1/2(12.7)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)
	Liquid	inch(mm)	φ1/4(6.35)	φ1/4(6.35)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)
Loading quantity	40'GP	set	192	192	162	162	96	96
	40'HQ	set	192	192	162	162	96	96

Model			GMV-ND90PLS/A-T	GMV-ND100PLS/A-T	GMV-ND112PLS/A-T	GMV-ND125PLS/A-T	GMV-ND140PLS/A-T
Capacity	Cooling	kW	9.0	10.0	11.2	12.5	14.0
	Heating	kW	10.0	11.2	12.5	14.0	16.0
Power supply	PhV/Hz		1/220-240/50				
Motor power input	W		209	209	209	230	230
	m³/h		1500	1500	1700	2000	2000
Air flow volume	CFM		883	883	1001	1177	1177
	Pa		20/50	20/50	20/50	20/50	20/50
Standard Esp	Pa		20/50	20/50	20/50	20/50	20/50
Sound pressure level	dB(A)		40/32	40/32	40/32	42/37	42/37
	Outline	mm	1340×655×260	1340×655×260	1340×655×260	1340×655×260	1340×655×260
Dimension (WxDxH)	Package	mm	1588×858×315	1588×858×315	1588×858×315	1588×858×315	1588×858×315
	kg		46/55	46/55	46/55	47/56	47/56
Net weight/Gross weight	Gas	inch(mm)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)
	Liquid	inch(mm)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)
Loading quantity	40'GP	set	84	84	84	84	84
	40'HQ	set	84	84	84	84	84

Cassette Type Indoor Unit

The 4-way cassette type indoor unit is with air return in the middle and strong air outlet in four ways. The cooling capacity ranges from 2.8~16.0kW, which can be widely applied in hotel, office building, apartment and villa, etc.



1-way cassette

Model			GMV-ND28TD/A-T	GMV-ND36TD/A-T	GMV-ND45TD/A-T	GMV-ND50TD/A-T
Capacity	Cooling	kW	2.8	3.6	4.5	5.0
	Heating	kW	3.2	4.0	5.0	5.6
Power supply	Ph/V/Hz		1/220-240/50			
Motor power input	W		45.0	57.0	65.0	70.0
Air flow volume	m³/h		480	580	700	830
	CFM		283	341	412	489
Sound pressure level	dB(A)		36/31	38/32	42/34	44/35
Main body	Dimension (WxDxH)	Outline	987×358×178	987×358×178	987×358×178	987×358×178
		Package	mm	1307×501×310	1307×501×310	1307×501×310
	Net weight/Gross weight	kg	21/26	21/26	22/27	22/27
Panel	Dimension (WxDxH)	Outline	1200×460×55	1200×460×55	1200×460×55	1200×460×55
		Package	mm	1265×536×121	1265×536×121	1265×536×121
	Net weight/Gross weight	kg	4.2/6	4.2/6	4.2/6	4.2/6
Connecting pipe diameter	Gas	inch(mm)	φ3/8(9.52)	φ1/2(12.7)	φ1/2(12.7)	φ1/2(12.7)
	Liquid	inch(mm)	φ1/4(6.35)	φ1/4(6.35)	φ1/4(6.35)	φ1/4(6.35)
Loading quantity	40'GP	set	227	227	227	227
	40'HQ	set	251	251	251	251

4-way Cassette

Model			GMV-ND28T/A-T	GMV-ND36T/A-T	GMV-ND45T/A-T	GMV-ND50T/A-T	GMV-ND56T/A-T	GMV-ND63T/A-T	GMV-ND71T/A-T
Capacity	Cooling	kW	2.8	3.6	4.5	5.0	5.6	6.3	7.1
	Heating	kW	3.2	4.0	5.0	5.6	6.3	7.1	8.0
Power supply	Ph/V/Hz		1/220-240/50						
Motor power input	W		48	48	48	50	59	59	68
Air flow volume	m³/h		750	750	750	830	1000	1000	1180
	CFM		442	442	442	489	589	589	695
Sound pressure level	dB(A)		36	36	36	36	37	37	38
Main body	Dimension (WxDxH)	Outline	840×840×190	840×840×190	840×840×190	840×840×190	840×840×240	840×840×240	840×840×240
		Package	mm	963×963×272	963×963×272	963×963×272	963×963×272	963×963×325	963×963×325
	Net weight/Gross weight	kg	25/33	25/33	25/33	25/33	26.5/34.5	26.5/34.5	26.5/34.5
Panel	Dimension (WxDxH)	Outline	950×950×65	950×950×65	950×950×65	950×950×65	950×950×65	950×950×65	950×950×65
		Package	mm	1033×1038×133	1033×1038×133	1033×1038×133	1033×1038×133	1033×1038×133	1033×1038×133
	Net weight/Gross weight	kg	7/11	7/11	7/11	7/11	7/11	7/11	7/11
Connecting pipe diameter	Gas	inch(mm)	φ3/8(9.52)	φ1/2(12.7)	φ1/2(12.7)	φ1/2(12.7)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)
	Liquid	inch(mm)	φ1/4(6.35)	φ1/4(6.35)	φ1/4(6.35)	φ1/4(6.35)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)
Loading quantity	40'GP	set	144	144	144	144	144	144	144
	40'HQ	set	144	144	144	144	144	144	144

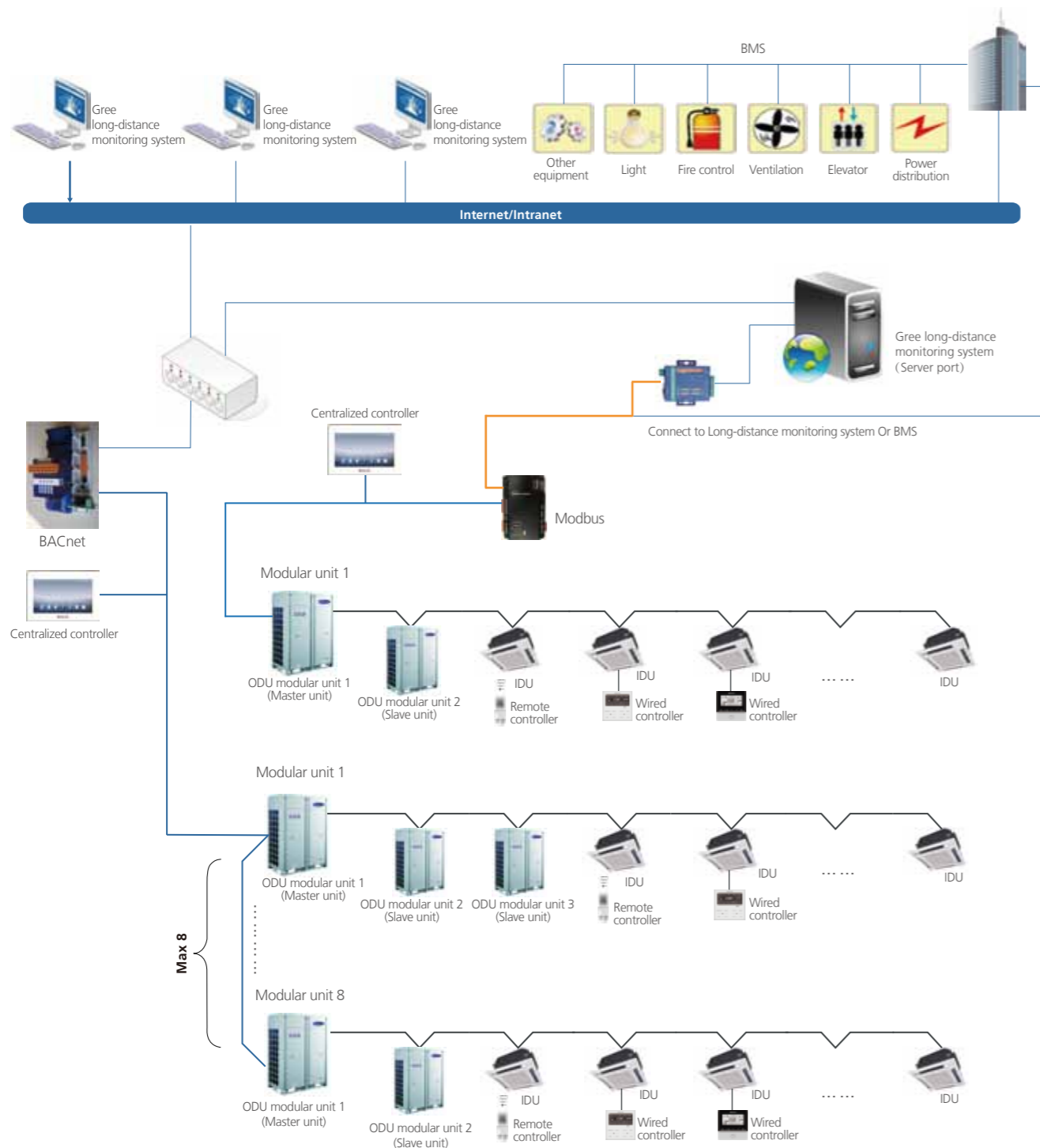
Model			GMV-ND80T/A-T	GMV-ND90T/A-T	GMV-ND100T/A-T	GMV-ND112T/A-T	GMV-ND125T/A-T	GMV-ND140T/A-T
Capacity	Cooling	kW	8.0	9.0	10.0	11.2	12.5	14.0
	Heating	kW	9.0	10.0	11.2	12.5	14.0	16.0
Power supply	Ph/V/Hz		1/220-240/50					
Motor power input	W		68	98	98	110	110	110
Air flow volume	m³/h		1180	1500	1500	1700	1860	1860
	CFM		695	883	883	1001	1095	1095
Sound pressure level	dB(A)		38	40	40	41	43	43
Main body	Dimension (WxDxH)	Outline	840×840×240	840×840×320	840×840×320	840×840×320	840×840×320	840×840×320
		Package	mm	963×963×325	963×963×409	963×963×409	963×963×409	963×963×409
	Net weight/Gross weight	kg	26.5/34.5	32.5/40.0	32.5/40.0	32.5/40.0	32.5/40.0	32.5/40.0
Panel	Dimension (WxDxH)	Outline	950×950×65	950×950×65	950×950×65	950×950×65	950×950×65	950×950×65
		Package	mm	1033×1038×133	1033×1038×133	1033×1038×133	1033×1038×133	1033×1038×133
	Net weight/Gross weight	kg	7/11	7/11	7/11	7/11	7/11	7/11
Connecting pipe diameter	Gas	inch(mm)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)
	Liquid	inch(mm)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)
Loading quantity	40'GP	set	144	120	120	120	120	120
	40'HQ	set	144	144	144	144	144	144

Control System Lineup

Controlling system	Product series	Image	Duct type		Cassette type	
			High ESP type	Low ESP type	4-way type	1-way type
Wireless remote controller	YV1L1		○	○	○	○
	YAD1F		●	●	●	●
Wired controller	Z6L351		●	●	●	●
	Z6L351A		○	○	○	○

Note:
 ● means standard, ○ means optional.
 * If Long-distance monitoring software Gree Eude mon 2009 is selected, the communication module ME30-00/E2 shall be selected also. The quantity of the module shall be confirm according to the quantity of outdoor units.

GMV5 Network



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



- Golden fin condenser
- Inner groove copper
- High efficiency
- Intelligent defrosting
- Energy saving function
- Precise temperature control $\pm 0.5^{\circ}\text{C}$
- 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. 6 types and 73 models of indoor unit. Max. diversity is 135%.
- * For GMV IV only.

Item	Max. piping length (meter)	
	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-Pd100W/NaB-K	GMV-Pd120W/NaB-K	GMV-Pd140W/NaB-K	GMV-Pd160W/NaB-K	GMV-Pd140W/NaB-M	GMV-Pd160W/NaB-M
Capacity	Cooling	kW	10.0	12.1	14.0	16.0	14.0	16.0
	Heating	kW	11.0	14.0	15.4	17.6	15.4	17.6
EER/OOP	Cooling/Heating	kW/kW	3.50/4.23	3.46/4.12	3.21/3.80	3.21/3.63	3.11/4.30	3.14/3.67
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
Power input	Cooling	kW	2.86	3.50	4.36	4.98	4.50	5.10
	Heating	kW	2.60	3.40	4.05	4.85	4.30	4.80
Refrigerant charge volume		kg	7.5	7.5	7.5	7.5	7	7
Compressor configuration			DC×1	DC×1	DC×1	DC×1	DC×1	DC×1
Sound pressure level		dB(A)	58	58	58	58	58	60
Dimension (W×D×H)	Outline	mm	950×340×1250	950×340×1250	950×340×1250	950×340×1250	950×340×1250	950×340×1250
	Package	mm	1113×453×1400	1113×453×1400	1113×453×1400	1113×453×1400	1113×453×1400	1113×453×1400
Net weight/Gross weight		kg	111/122	111/122	111/122	115/122	115/122	115/122
Connecting pipe diameter	Gas	inch(mm)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)	φ3/4(19.05)	φ5/8(15.9)	φ3/4(19.05)
	Liquid	inch(mm)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)
Max. equivalent connection pipe length*		m	80	80	80	80	80	80
Maximum drive IDU NO.		unit	6	7	8	9	8	9
Loading quantity	40'GP	set	53	53	53	53	53	53
	40'HQ	set	53	53	53	53	53	53

D: DC inverter dual-rotor type compressor
* From outdoor unit to last indoor unit.











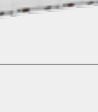


GMV IV

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	-15~48
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
EER/COP	Cooling/Heating	kW/kW	4.06/4.30	3.72/4.09	3.36/4.00	3.21/4.02	3.14/3.60
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			DC×1+F×1	DC×1+F×1	DC×1+F×2	DC×1+F×2	DC×1+F×2
Sound pressure level		dB(A)	58	58	60	61	61
Dimension (W×D×H)	Outline	mm	930×770×1670	930×770×1670	1340×770×1670	1340×770×1670	1340×770×1670
	Package	mm	1013×853×1865	1013×853×1865	1423×853×1865	1423×853×1865	1423×853×1865
Net weight/Gross weight		kg	255/275	255/275	350/380	350/380	370/400
Connecting pipe diameter	Gas	inch(mm)	φ7/8(22.2)	φ7/8(22.2)	φ9/8(28.6)	φ9/8(28.6)	φ9/8(28.6)
	Liquid	inch(mm)	φ3/8(9.52)	φ3/8(9.52)	φ1/2(12.7)	φ1/2(12.7)	φ1/2(12.7)
	Oil balance	inch(mm)	φ1/2(12.7)	φ1/2(12.7)	φ1/2(12.7)	φ1/2(12.7)	φ1/2(12.7)
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	set	24	24	16	16	16
	40'HQ	set	24	24	16	16	16

DC: DC inverter scroll compressor F: Fixed frequency scroll compressor
* From outdoor unit to last indoor unit.

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)
	●				
		●			
			●		
				●	
					●
	●	●			
		●●			
		●	●		
		●		●	
		●			●
			●		●
				●	●
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		●●		●	●
		●●			●●
		●	●		●●
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			●		●●
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HOME GMV(Inverter series with water heater)



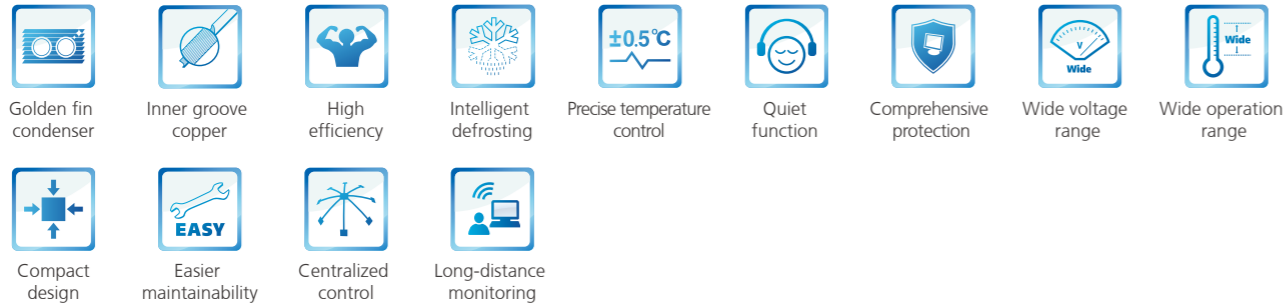
Outdoor Unit



Water Tank



Hydro Box



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
	Water heating	-15°C~43°C
	Cooling and water heating	-5°C~43°C
Heating and water heating	-15°C~24°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	kW	10.0	12.0	14.0	16.0	22.4	28.0
	Heating	kW	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		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
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 volume		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	1113x453x1385	1113x453x1385	1113x453x1385	1113x453x1385	1013x853x1865	1013x853x1865
Net weight/Gross weight		kg	105/115	105/115	115/125	115/125	265/285	265/285
Connecting pipe diameter	Gas (AC)	inch(mm)	φ3/4(19.05)	φ3/4(19.05)	φ3/4(19.05)	φ3/4(19.05)	φ7/8(22.2)	φ7/8(22.2)
	Liquid(AC)	inch(mm)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)
	Gas(water)	inch(mm)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)	φ3/4(19.05)	φ3/4(19.05)
	Liquid(water)	inch(mm)	φ1/2(12.7)	φ1/2(12.7)	φ1/2(12.7)	φ1/2(12.7)	φ5/8(15.9)	φ5/8(15.9)
Loading quantity	40'GP	set	54	54	54	54	28	28
	40'HQ	set	54	54	54	54	28	28

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

Water Tank

Model		SXD200LC-K	SXD300LC-K	SXD350LC-K	SXD400LC-K	SXVD200LCJ/A-K	SXVD300LCJ/A-K	
Tank volume	L	200	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	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	
Dimension	Thickness(inner)	mm	1.5	1.5	1.5	1.5	1.5	
	Thickness(external)	mm	50	45	45	45	45	
	Outline diameter	mm	540	620	620	620	540	620
	Outline height	mm	1595	1620	1895	2125	1595	1620
Package(WxDxH)	mm	625x1620x630	705x1645x710	705x1920x710	705x2150x710	625x1620x630	705x1645x710	
	mm	625x1620x630	705x1645x710	705x1920x710	705x2150x710	625x1620x630	705x1645x710	
Net weight/Gross weight	kg	57/66	71/81	79/90	86/98	68/77	82/92	
Outer diameter	Circular pipe	inch(mm)	φ3/4(19.05)	φ3/4(19.05)	φ3/4(19.05)	φ3/4(19.05)	φ3/4(19.05)	
	Cold water pipe	inch(mm)	φ1/2(12.7)	φ1/2(12.7)	φ1/2(12.7)	φ1/2(12.7)	φ1/2(12.7)	
	Hot water pipe	inch(mm)	φ1/2(12.7)	φ1/2(12.7)	φ1/2(12.7)	φ1/2(12.7)	φ1/2(12.7)	
Loading quantity	40'GP	set	78	63	54	51	78	
	40'HQ	set	104	63	54	51	104	

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	PhV/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	705x1920x722	705x2150x722	625x1620x630	705x1920x710	705x1920x722	705x2150x722
	mm	705x1920x722	705x2150x722	625x1620x630	705x1920x710	705x1920x722	705x2150x722
Net weight/Gross weight	kg	96/122	106/134	71/80	87/97	100/126	110/139
Outer diameter	Circular pipe	inch(mm)	φ3/4(19.05)	φ3/4(19.05)	φ3/4(19.05)	φ3/4(19.05)	φ3/4(19.05)
	Cold water pipe	inch(mm)	φ1/2(12.7)	φ1/2(12.7)	φ1/2(12.7)	φ1/2(12.7)	φ1/2(12.7)
	Hot water pipe	inch(mm)	φ1/2(12.7)	φ1/2(12.7)	φ1/2(12.7)	φ1/2(12.7)	φ1/2(12.7)
Loading quantity	40'GP	set	54	51	78	63	54
	40'HQ	set	54	51	104	63	54

Hydro Box

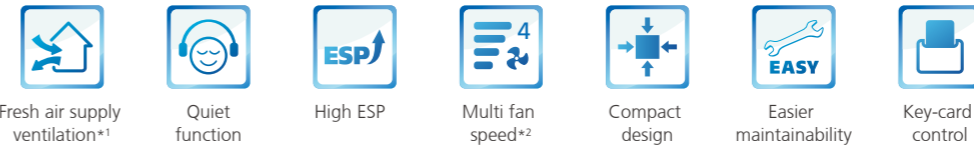
Model		RQ5GB-K	RQ8GB-K	RQ20LA-K	RQ30LA-K	RQD20LA-M	RQD30LA-M
Heating capacity	kW	5.00	8.00	20.00	30.00	20.00	30.00
Dimension (WxDxH)	Outline	mm	650x300x250	650x300x250	1050x470x760	1050x470x910	1050x470x760
	Package	mm	725x365x313	725x365x313	1123x503x905	1123x503x1055	1123x503x905
Power supply	PhV/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	3/380-415/50	3/380-415/50
Connecting pipe diameter	to ODU	Gas	inch(mm)	φ5/8(15.9)	φ5/8(15.9)	φ3/4(19.05)	φ3/4(19.05)
	to water tank	Liquid	inch(mm)	φ1/2(12.7)	φ1/2(12.7)	φ5/8(15.9)	φ5/8(15.9)
		Gas	inch(mm)	φ3/4(19.05)	φ3/4(19.05)	φ1(25.4)	φ1(25.4)
Water pump	Type		RS15/6	RS15/6	MHI202	MHI202	MHI202
	Power input	kW	80	80	370	370	370
	Water flow	L/h	1000	1000	2600	2600	2600
		GPM	4.4	4.4	11.44	11.44	11.44
Delivery lift	m	6	6	15	15	15	
Net weight/Gross weight	kg	25/28	25/28	75/90	100/115	110/122	120/135
Loading quantity	40'GP	set	576	576	96	96	96
	40'HQ	set	576	576	96	96	96

(* IDU information please take reference from Page 53 to 59.)

Indoor Units Lineup (for Inverter 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 integrated	●	●	●	●	●	●	●	●								
	EXV separated		●	●		●			●		●						
Floor ceiling			●	●		●							●	●			
	EXV integrated								●		●						
													●	●	●		
Console		●	●		●												
Floor standing									●		●				●		

High ESP Duct Type Indoor Unit



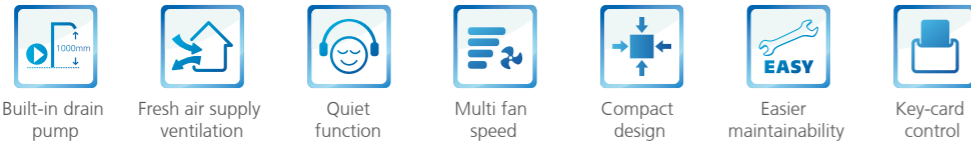
*1 For the unit between 5.6kW to 14kW. *2 For the unit below 15kW.

Model	without 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
	with 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		880x665x250	880x665x250	880x665x250	980x721x266	1155x736x300	1155x736x300
	Package		1023x748x320	1023x748x320	1023x748x320	1123x798x323	1248x788x375	1248x788x375
Net weight/ Gross weight	without DWP*		27/31	28.5/33.5	28.5/33.5	34/37	49/56	49/56
	with DWP*		28.5/33.5	30.5/35.5	30.5/35.5	36/39	51/58	51/58
Connecting pipe diameter	Gas	inch(mm)	φ3/8(9.52)	φ3/8(9.52)	φ1/2(12.7)	φ1/2(12.7)	φ5/8(15.9)	φ5/8(15.9)
	Liquid	inch(mm)	φ1/4(6.32)	φ1/4(6.32)	φ1/4(6.32)	φ1/4(6.32)	φ3/8(9.52)	φ3/8(9.52)
Loading quantity	40'GP	set	192	192	192	180	108	108
	40'HQ	set	192	192	192	180	108	108

Model	without drain water pump		GMV-R90P/NaB-K	GMV-R112P/NaB-K	GMV-R140P/NaB-K	GMV-R224P/NaB-M	GMV-R280P/NaB-M
	with 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
	m³/h		1700	1700	2000	4000	4800
Air flow volume	CFM		1000	1000	1177	2381	2857
	Pa		40/80	40/80	50/100	200	220
Standard ESP	Pa		48/46/44	48/46/44	50/48/46	56	57
Dimension (WxDxH)	Outline		1425x736x300	1425x736x300	1425x736x300	1463x799x389	1628x869x454
	Package		1517x788x375	1517x788x375	1517x788x375	1543x883x485	1748x1028x595
Net weight/ Gross weight	without DWP*		62/71	62/71	63.5/73	90/110	115/145
	with DWP*		64/73	64/73	65.5/75	—	—
Connecting pipe diameter	Gas	inch(mm)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)	φ7/8(22.2)	φ7/8(22.2)
	Liquid	inch(mm)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)
Loading quantity	40'GP	set	90	90	90	56	36
	40'HQ	set	90	90	90	70	48

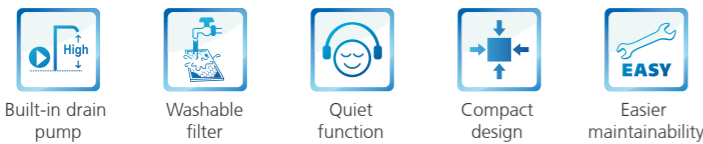
* DWP means drain water pump.

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	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	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)	mm	700x615x200	700x615x200	700x615x200	900x615x200	900x615x200	1100x615x200
Outline	mm		893x743x305	893x743x305	893x743x305	1123x743x305	1123x743x305	1323x743x305
	Package	mm	893x743x305	893x743x305	893x743x305	1123x743x305	1123x743x305	1323x743x305
Net weight/ Gross weight	kg		21/27	21/27	22/28	26/33	26/33	26/33
Connecting pipe diameter	Gas	inch(mm)	φ3/8(9.52)	φ3/8(9.52)	φ1/2(12.7)	φ1/2(12.7)	φ5/8(15.9)	φ5/8(15.9)
	Liquid	inch(mm)	φ1/4(6.32)	φ1/4(6.32)	φ1/4(6.32)	φ1/4(6.32)	φ3/8(9.52)	φ3/8(9.52)
Loading quantity	40'GP	set	234	234	234	180	180	162
	40'HQ	set	234	234	234	180	180	162

Cassette Type Indoor Unit



4-way Cassette

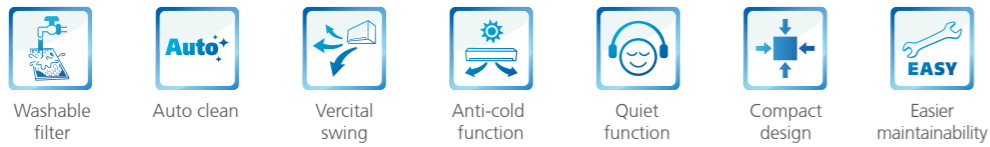
Model			GMV-R28T/Na-K	GMV-R36T/Na-K	GMV-R45T/Na-K	GMV-R50T/Na-K	GMV-R56T/Na-K	GMV-R63T/Na-K	GMV-R71T/Na-K
Capacity	Cooling	kW	2.8	3.6	4.5	5.0	5.6	6.3	7.1
	Heating	kW	3.2	4.0	5.0	5.8	6.3	7.0	8.0
Power supply	PhV/Hz		1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Motor power input	W		65	65	65	65	83	83	83
Air flow volume	m ³ /h		680	680	680	680	1180	1180	1180
	CFM		400	400	400	400	694	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	39/37/35
Main body	Dimension (WxDxH)	mm	840x840x190	840x840x190	840x840x190	840x840x190	840x840x240	840x840x240	840x840x240
	Package	mm	963x963x272	963x963x272	963x963x272	963x963x272	963x963x325	963x963x325	963x963x325
Net weight/Gross weight		kg	25/33	25/33	25/33	25/33	30/38	30/38	30/38
Panel	Dimension (WxDxH)	mm	950x950x60	950x950x60	950x950x60	950x950x60	950x950x60	950x950x60	950x950x60
	Package	mm	1043x1028x130	1043x1028x130	1043x1028x130	1043x1028x130	1043x1028x130	1043x1028x130	1043x1028x130
Net weight/Gross weight		kg	6.5/10	6.5/10	6.5/10	6.5/10	6.5/10	6.5/10	6.5/10
Connecting pipe diameter	Gas	inch(mm)	φ3/8(9.52)	φ1/2(12.7)	φ1/2(12.7)	φ1/2(12.7)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)
	Liquid	inch(mm)	φ1/4(6.32)	φ1/4(6.32)	φ1/4(6.32)	φ1/4(6.32)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)
Loading quantity	40'GP	set	130	130	130	130	107	107	107
	40'HQ	set	134	134	134	134	134	134	134

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	kW	8.0	9.0	10.0	11.2	12.5	14.0
	Heating	kW	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)	mm	840x840x240	840x840x320	840x840x320	840x840x320	840x840x320	840x840x320
	Package	mm	963x963x325	963x963x409	963x963x409	963x963x409	963x963x409	963x963x409
Net weight/Gross weight		kg	30/38	38/46	38/46	38/46	38/46	38/46
Panel	Dimension (WxDxH)	mm	950x950x60	950x950x60	950x950x60	950x950x60	950x950x60	950x950x60
	Package	mm	1043x1028x130	1043x1028x130	1043x1028x130	1043x1028x130	1043x1028x130	1043x1028x130
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	inch(mm)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)
	Liquid	inch(mm)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)
Loading quantity	40'GP	set	107	89	89	89	89	89
	40'HQ	set	134	112	112	112	112	112

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	kW	2.2	2.8	3.6	4.5	2.2	2.8	3.6
	Heating	kW	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	
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	353	353	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)	mm	650x640x230	650x640x230	650x640x230	650x640x230	920x360x185	920x360x185	
	Package	mm	851x731x325	851x731x325	851x731x325	851x731x325	1293x468x285	1293x468x285	
Net weight/Gross weight		kg	20/27	20/27	20/27	20/27	16/25	16/25	
Panel	Dimension (WxDxH)	mm	650x650x50	650x650x50	650x650x50	650x650x50	1180x430x30	1180x430x30	
	Package	mm	733x673x117	733x673x117	733x673x117	733x673x117	1263x508x125	1263x508x125	
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	inch(mm)	φ3/8(9.52)	φ3/8(9.52)	φ1/2(12.7)	φ1/2(12.7)	φ3/8(9.52)	φ3/8(9.52)	
	Liquid	inch(mm)	φ1/4(6.32)	φ1/4(6.32)	φ1/4(6.32)	φ1/4(6.32)	φ1/4(6.32)	φ1/4(6.32)	
Loading quantity	40'GP	set	209	209	209	209	203	203	
	40'HQ	set	246	246	246	246	216	216	

Wall Mounted Type Indoor Unit



EXV Integrated

Model			GMV-R22G/NaG-K	GMV-R28G/NaG-K	GMV-R36G/NaG-K	GMV-R45G/NaG-K
Capacity	Cooling	kW	2.2	2.8	3.6	4.5
	Heating	kW	2.5	3.2	4.0	5.0
Power supply	PhV/Hz		1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Motor power input	W		50	50	60	60
Air flow volume	m³/h		500	500	630	630
	CFM		294	294	371	371
Sound pressure level (H/M/L)	dB(A)		38/34	38/35	44/38	44/38
Dimension (WxDxH)	Outline	mm	843x180x275	843x180x275	940x200x298	940x200x298
	Package	mm	918x258x370	918x258x370	1013x288x395	1013x288x395
Net weight/Gross weight	kg		10.5/12.5	10.5/12.5	13/16	13/16
Connecting pipe diameter	Gas	inch(mm)	φ3/8(9.52)	φ3/8(9.52)	φ1/2(12.7)	φ1/2(12.7)
	Liquid	inch(mm)	φ1/4(6.32)	φ1/4(6.32)	φ1/4(6.32)	φ1/4(6.32)
Loading quantity	40'GP	set	702	702	557	557
	40'HQ	set	819	819	624	624

Model			GMV-R50G/NaG-K	GMV-R56G/NaG-K	GMV-R63G/NaG-K	GMV-R71G/NaG-K
Capacity	Cooling	kW	5.0	5.6	6.3	7.1
	Heating	kW	5.8	6.3	7.0	8.0
Power supply	PhV/Hz		1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Motor power input	W		60	70	70	70
Air flow volume	m³/h		630	800	800	800
	CFM		371	471	471	471
Sound pressure level (H/M/L)	dB(A)		44/38	44/38	44/38	44/38
Dimension (WxDxH)	Outline	mm	940x200x298	1008x221x319	1008x221x319	1008x221x319
	Package	mm	1013x288x395	1076x316x410	1076x316x410	1076x316x410
Net weight/Gross weight	kg		13/16	15/20	15/20	15/20
Connecting pipe diameter	Gas	inch(mm)	φ1/2(12.7)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)
	Liquid	inch(mm)	φ1/4(6.32)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)
Loading quantity	40'GP	set	557	441	441	441
	40'HQ	set	624	503	503	503

Floor Ceiling Type Indoor Unit



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		19	19	75	185	280	340	340
Air flow volume	m³/h		550	600	700	1170	2100	2200	2300
	CFM		324	353	412	689	1236	1295	1354
Sound pressure level	dB(A)		43	44	50	48	51	54	55
Dimension (WxDxH)	Outline	mm	840x695x238	840x695x238	840x695x238	1300x600x188	1590x695x238	1590x695x238	1590x695x238
	Package	mm	1038x808x310	1038x808x310	1038x808x310	1517x727x263	1817x833x345	1817x833x345	1817x833x345
Net weight/Gross weight	kg		28/37	28/37	28/37	34/38	44/53	44/53	44/53
Connecting pipe diameter	Gas	inch(mm)	φ3/8(9.52)	φ1/2(12.7)	φ1/2(12.7)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)
	Liquid	inch(mm)	φ1/4(6.32)	φ1/4(6.32)	φ1/4(6.32)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)
Loading quantity	40'GP	set	168	168	168	126	84	84	84
	40'HQ	set	168	168	168	126	84	84	84

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
Air flow volume	m³/h		650	650	950	1400
	CFM		383	383	559	824
Sound pressure level	dB(A)		40	40	45	49
Dimension (WxDxH)	Outline	mm	1220x700x225	1220x700x225	1220x700x225	1420x700x245
	Package	mm	1343x823x315	1343x823x315	1343x823x315	1548x828x345
Net weight/Gross weight	kg		40/50	40/50	40/50	52/61
Connecting pipe diameter	Gas	inch(mm)	φ3/8(9.52)	φ1/2(12.7)	φ1/2(12.7)	φ5/8(15.9)
	Liquid	inch(mm)	φ1/4(6.32)	φ1/4(6.32)	φ1/4(6.32)	φ3/8(9.52)
Loading quantity	40'GP	set	132	132	132	90
	40'HQ	set	132	132	132	90

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
Air flow volume	m³/h		1600	2000	2000	2000
	CFM		942	1177	1177	1177
Sound pressure level	dB(A)		51	55	55	55
Dimension (WxDxH)	Outline	mm	1420x700x245	1700x700x245	1700x700x245	1700x700x245
	Package	mm	1548x828x345	1828x828x345	1828x828x345	1828x828x345
Net weight/Gross weight	kg		54/63	64/72	66/74	66/74
Connecting pipe diameter	Gas	inch(mm)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)
	Liquid	inch(mm)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)
Loading quantity	40'GP	set	84	72	72	72
	40'HQ	set	90	84	84	84

MULTI-VRF

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(mm)	φ3/8(9.52)	φ3/8(9.52)	φ1/2(12.7)	
	Liquid	inch(mm)	φ1/4(6.32)	φ1/4(6.32)	φ1/4(6.32)	
Loading quantity	40'GP	set	387	387	387	
	40'HQ	set	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		647	942	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(mm)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)	
	Liquid	inch(mm)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)	
Loading quantity	40'GP	set	90	64	64	
	40'HQ	set	90	64	64	

Branching Joint

For Indoor Units			
Model	Indoor unit total capacity X (kW)	Appearance	
		Gas pipe	Liquid pipe
FQ01A/A	X ≤ 20		
FQ01B/A	20 < X ≤ 30		
FQ02/A	30 < X ≤ 70		
FQ03/A	70 < X ≤ 135		
FQ04/A	135 < X		
FQ05/A	—		

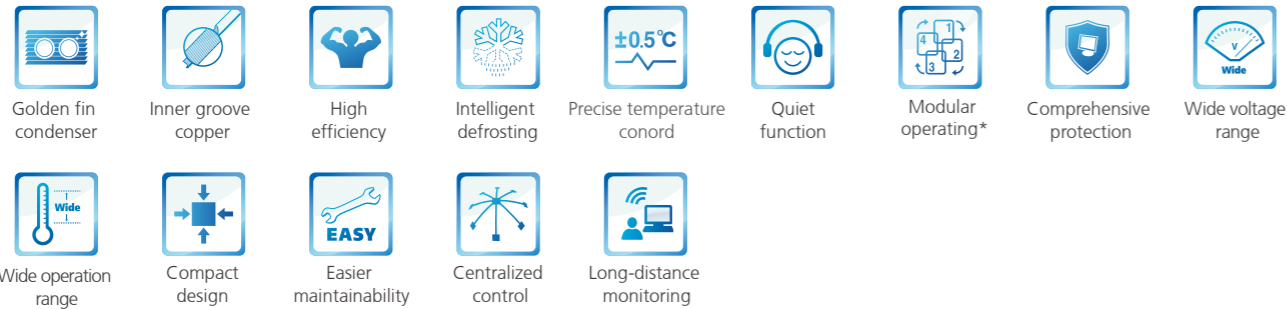
For Outdoor Units			
Model	Outdoor unit total capacity X (kW)	Appearance	
		Gas pipe	Liquid pipe
ML01/A	20 ≤ X ≤ 56		

MULTI-VRF

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.



- 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.
4 types and 56 models of indoor unit.
Max. diversity is 135%.

Max. piping length (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

Outdoor Units Lineup—Heat Recovery Series

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

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

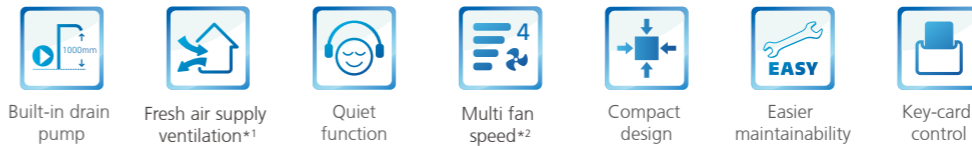
Model	Heat pump		GMV-PdHm224W/Na-M	GMV-PdHm280W/Na-M	GMV-PdHm335W/Na-M	GMV-PdHm400W/Na-M	GMV-PdHm450W/Na-M
Capacity	Cooling	kW	22.4	28.0	33.5	40.0	45.0
	Heating	kW	25.0	31.5	37.5	45.0	50.0
EER		kW/kW	3.73	3.73	3.63	3.21	3.14
COP		kW/kW	4.09	4.09	4.00	4.02	3.60
ECOP	Cooling&heating	kW/kW	6.80	6.80	6.50	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
		kW	5.50	7.5	9.23	12.4	14.32
Power input	Cooling	kW	5.80	7.7	9.38	11.2	13.90
	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	1013x853x1865	1013x853x1865	1423x853x1865	1423x853x1865	1423x853x1865
Net weight/Gross weight		kg	266/282	266/282	372/390	387/413	387/413
Connecting pipe diameter	Gas(High pressure)	inch(mm)	φ3/4(19.05)	φ3/4(19.05)	φ3/4(19.05)	φ7/8(22.2)	φ7/8(22.2)
	Gas(Low pressure)	inch(mm)	φ7/8(22.2)	φ7/8(22.2)	φ9/8(28.6)	φ9/8(28.6)	φ9/8(28.6)
	Liquid	inch(mm)	φ3/8(9.52)	φ3/8(9.52)	φ1/2(12.7)	φ1/2(12.7)	φ1/2(12.7)
	Oil balance	inch(mm)	φ1/2(12.7)	φ1/2(12.7)	φ1/2(12.7)	φ1/2(12.7)	φ1/2(12.7)
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	set	28	28	22	22	22
	40'HQ	set	38	38	27	27	27

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

Indoor Units 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			●	●	●				●		●						
														●	●			

Duct Type Indoor Unit



*1 For the unit between 5.6kW to 14kW. *2 For the unit below 15kW.

High ESP Type

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	1148x748x320	1148x748x320	1148x748x320	1293x798x323	1418x788x375
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(mm)	φ3/8(9.52)	φ3/8(9.52)	φ1/2(12.7)	φ1/2(12.7)	φ5/8(15.9)
	Liquid	inch(mm)	φ1/4(6.32)	φ1/4(6.32)	φ1/4(6.32)	φ1/4(6.32)	φ3/8(9.52)
Loading quantity	40'GP	set	180	180	180	108	96
	40'HQ	set	180	180	180	108	96

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-M	GMV-Rh280P/NaB-M
Capacity	Cooling	kW	7.1	9.0	11.2	14.0	22.4	28.0
	Heating	kW	8.0	10.0	12.5	15.0	25.0	31.0
Power supply		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	1418x788x375	1687x788x375	1687x788x375	1687x788x375	1698x883x485	1903x1028x595
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(mm)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)	φ7/8(22.2)	φ7/8(22.2)
	Liquid	inch(mm)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)
Loading quantity	40'GP	set	96	84	84	84	56	36
	40'HQ	set	96	84	84	84	70	48

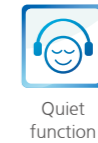
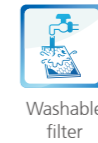
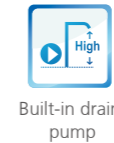
Normal ESP Type

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	
Motor power input			W	54	54	55	55	91	
Air flow volume			m ³ /h	450	450	570	570	700	
			CFM	265	265	335	335	412	
ESP			Pa	10	10	10	10	20	
Sound pressure level			dB(A)	37/33	37/33	39/35	39/35	40/36	
Dimension (WxDxH)			Outline	kg	875x680x220	875x680x220	875x680x220	875x680x220	980x736x266
			Package	kg	1168x713x290	1168x713x290	1168x713x290	1168x713x290	1168x713x290
Net weight/Gross weight			kg	27/31	27/31	27/31	27/31	36/39	
Connecting pipe diameter			Gas	inch(mm)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)	φ1/2(12.7)	φ1/2(12.7)
			Liquid	inch(mm)	φ1/4(6.32)	φ1/4(6.32)	φ1/4(6.32)	φ1/4(6.32)	φ1/4(6.32)
Loading quantity			40'GP	set	180	180	180	180	108
			40'HQ	set	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	
Motor power input			W	91	91	157	157	157	
Air flow volume			m ³ /h	700	700	1000	1000	1100	
			CFM	412	412	589	589	647	
ESP			Pa	20	20	25	25	25	
Sound pressure level			dB(A)	40/36	40/36	41/37	41/37	42/38	
Dimension (WxDxH)			Outline	kg	980x736x266	980x736x266	1159x736x260	1159x736x260	1159x736x260
			Package	kg	1223x779x335	1223x779x335	1401x788x335	1401x788x335	1401x788x335
Net weight/Gross weight			kg	36/39	36/39	37/41	37/41	37/41	
Connecting pipe diameter			Gas	inch(mm)	φ1/2(12.7)	φ1/2(12.7)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)
			Liquid	inch(mm)	φ1/4(6.32)	φ1/4(6.32)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)
Loading quantity			40'GP	set	108	108	96	96	
			40'HQ	set	108	108	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
Motor power input			W	270	270	270
Air flow volume			m ³ /h	1700	1700	1700
			CFM	1000	1000	1000
ESP			Pa	30	30	30
Sound pressure level			dB(A)	44/40	44/40	44/40
Dimension (WxDxH)			Outline	kg	1385x736x260	1385x736x260
			Package	kg	1685x799x325	1685x799x325
Net weight/Gross weight			kg	49/60	49/60	49/60
Connecting pipe diameter			Gas	inch(mm)	φ5/8(15.9)	φ5/8(15.9)
			Liquid	inch(mm)	φ3/8(9.52)	φ3/8(9.52)
Loading quantity			40'GP	set	90	90
			40'HQ	set	90	90

Cassette Type Indoor Unit



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
Motor power input			W	65	65	65	83	83
Air flow volume			m ³ /h	680	680	680	680	1180
			CFM	400	400	400	400	694
Sound pressure level			dB(A)	37/35/33	37/35/33	37/35/33	37/35/33	39/37/35
Main body			Dimension (WxDxH)	mm	840x840x190	840x840x190	840x840x190	840x840x240
			Outline Package	mm	1103x963x272	1103x963x272	1103x963x272	1103x963x325
			Net weight/Gross weight	kg	25/33	25/33	25/33	30/38
Panel			Dimension (WxDxH)	mm	950x950x60	950x950x60	950x950x60	950x950x60
			Outline Package	mm	1043x1028x130	1043x1028x130	1043x1028x130	1043x1028x130
			Net weight/Gross weight	kg	6.5/10	6.5/10	6.5/10	6.5/10
Connecting pipe diameter			Gas	inch(mm)	φ3/8(9.52)	φ1/2(12.7)	φ1/2(12.7)	φ5/8(15.9)
			Liquid	inch(mm)	φ1/4(6.32)	φ1/4(6.32)	φ1/4(6.32)	φ3/8(9.52)
Loading quantity			40'GP	set	112	112	112	100
			40'HQ	set	124	124	124	114

Model			GMV-Rh71T/Na-K	GMV-Rh80T/Na-K	GMV-Rh90T/Na-K	RGMV-h100T/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
Motor power input			W	83	83	133	133	133
Air flow volume			m ³ /h	1180	1180	1860	1860	1860
			CFM	694	694	1095	1095	1095
Sound pressure level			dB(A)	39/37/35	39/37/35	40/38/36	40/38/36	40/38/36
Main body			Dimension (WxDxH)	mm	840x840x240	840x840x240	840x840x320	840x840x320
			Outline Package	mm	1103x963x325	1103x963x325	1103x963x409	1103x963x409
			Net weight/Gross weight	kg	30/38	30/38	38/46	38/46
Panel			Dimension (WxDxH)	mm	950x950x60	950x950x60	950x950x60	950x950x60
			Outline Package	mm	1043x1028x130	1043x1028x130	1043x1028x130	1043x1028x130
			Net weight/Gross weight	kg	6.5/10	6.5/10	6.5/10	6.5/10
Connecting pipe diameter			Gas	inch(mm)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)
			Liquid	inch(mm)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)
Loading quantity			40'GP	set	100	88	88	88
			40'HQ	set	114	114	90	90

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
Motor power input			W	50	50	50
Air flow volume			m ³ /h	600	600	600
			CFM	353	353	353
Sound pressure level			dB(A)	47/41	47/41	47/41
Main body			Dimension (WxDxH)	mm	570x570x230	570x570x230
			Outline Package	mm	870x688x325	870x688x325
			Net weight/Gross weight	kg	16/25	16/25
Panel			Dimension (WxDxH)	mm	650x650x50	650x650x50
			Outline Package	mm	733x673x117	733x673x117
			Net weight/Gross weight	kg	2.5/3.56	2.5/3.56
Connecting pipe diameter			Gas	inch(mm)	φ3/8(9.52)	φ1/2(12.7)
			Liquid	inch(mm)	φ1/4(6.32)	φ1/4(6.32)
Loading quantity			40'GP	set	301	301
			40'HQ	set	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		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
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	770x190x250	770x190x250	830x189x285	830x189x285
	Package	mm	863x287x481	863x287x481	908x280x536	908x280x536
Net weight/Gross weight		kg	8.5/15.6	8.5/15.6	11/18.5	11/18.5
Connecting pipe diameter	Gas	inch(mm)	φ3/8(9.52)	φ3/8(9.52)	φ1/2(12.7)	φ1/2(12.7)
	Liquid	inch(mm)	φ1/4(6.32)	φ1/4(6.32)	φ1/4(6.32)	φ1/4(6.32)
Loading quantity	40'GP	set	520	520	440	440
	40'HQ	set	570	570	440	440

Model			GMV-Rh50G/Na-K	GMV-Rh56G/Na-K	GMV-Rh71G/Na-K
Capacity	Cooling	kW	5	5.6	7.1
	Heating	kW	5.8	6.3	8
Power supply		PhV/Hz	1/220-240/50	1/220-240/50	1/220-240/50
Motor power input		W	56	58	63
Air flow volume		m ³ /h	700	750	1200
		CFM	412	441	706
Sound pressure level		dB(A)	45/40	45/40	49/42
Dimension (WxDxH)	Outline	mm	1020x228x310	1020x228x310	1178x227x326
	Package	mm	1083x405x423	1083x405x423	1418x348x478
Net weight/Gross weight		kg	14.7/23.6	14.7/23.6	18.2/27.3
Connecting pipe diameter	Gas	inch(mm)	φ1/2(12.7)	φ5/8(15.9)	φ5/8(15.9)
	Liquid	inch(mm)	φ1/4(6.32)	φ3/8(9.52)	φ3/8(9.52)
Loading quantity	40'GP	set	315	315	208
	40'HQ	set	378	378	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		PhV/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	840x695x238	840x695x238	840x695x238	1300x600x188
	Package	mm	1098x808x310	1098x808x315	1098x808x315	1573x727x263
Net weight/Gross weight		kg	28/37	28/37	28/37	34/38
Connecting pipe diameter	Gas	inch(mm)	φ3/8(9.52)	φ1/2(12.7)	φ1/2(12.7)	φ5/8(15.9)
	Liquid	inch(mm)	φ1/4(6.32)	φ1/4(6.32)	φ1/4(6.32)	φ3/8(9.52)
Loading quantity	40'GP	set	120	120	120	126
	40'HQ	set	120	120	120	126

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		PhV/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	1590x695x238	1590x695x238	1590x695x238
	Package	mm	1873x833x345	1873x833x345	1873x833x345
Net weight/Gross weight		kg	44/53	/	/
Connecting pipe diameter	Gas	inch(mm)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)
	Liquid	inch(mm)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)
Loading quantity	40'GP	set	72	72	72
	40'HQ	set	72	72	72

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
ML01R	$22.4 \leq X \leq 96$			
ML02R	$96 < X$			

Fresh Air Series



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 $\pm 0.5^\circ\text{C}$
- 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
	Heating	kW	16.0	20.0	32.0
EER/COP	Cooling/Heating	kW/kW	2.24/1.88	2.67/2.22	3.10/2.37
Power supply		PhV/Hz	3/380/50	3/380/50	3/380-415/50
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*			DCx1+Fx1	DCx1+Fx1	DCx1+Fx2
Sound pressure level		dB(A)	58	58	61
Dimension (WxDxH)	Outline	mm	930x770x1670	930x770x1670	1340x770x1670
	Package	mm	1013x853x1865	1013x853x1865	1423x853x1865
Net weight/Gross weight		kg	255/275	255/275	370/400
	Gas	inch(mm)	$\phi 7/8(22.2)$	$\phi 7/8(22.2)$	$\phi 9/8(28.6)$
Connecting pipe diameter	Liquid	inch(mm)	$\phi 3/8(9.52)$	$\phi 3/8(9.52)$	$\phi 1/2(12.7)$
	Oil balance	inch(mm)	$\phi 1/2(12.7)$	$\phi 1/2(12.7)$	$\phi 1/2(12.7)$
	Max. equivalent connection pipe length	m	70	70	70
Maximum drive IDU NO.		unit	14	16	16
Loading quantity	40'GP	set	24	24	16
	40'HQ	set	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		Ph/V/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	1463x756x300	1500x1000x500	1500x1000x500	1500x1000x500
	Package	mm	1517x788x375	1843x1203x688	1843x1203x688	1843x1203x688
Net weight/Gross weight		kg	63.5/73.0	130/140	150/160	150/160
Connecting pipe diameter	Gas	inch(mm)	φ5/8(15.9)	φ7/8(22.2)	φ7/8(22.2)	φ7/8(22.2)
	Liquid	inch(mm)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)
Loading quantity	40'GP	set	84	26	26	26
	40'HQ	set	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		Ph/V/Hz	3/380-415/50	3/380/50	3/380/50
Motor power input		W	1500	2200	2200
Air flow volume	Cooling	m ³ /h	4000	5000	6000
	Heating	CFM	2354	2942	3531
ESP		Pa	50-200	50-200	50-200
Sound pressure level		dB(A)	52	54	57
Dimension (WxDxH)	Outline	mm	1700x1100x650	1700x1100x650	1700x1100x650
	Package	mm	1893x1463x850	1893x1463x850	1893x1463x850
Net weight/Gross weight		kg	190/220	215/265	215/265
Connecting pipe diameter	Gas	inch(mm)	φ9/8(28.6)	φ9/8(28.6)	φ9/8(28.6)
	Liquid	inch(mm)	φ1/2(12.7)	φ5/8(15.9)	φ5/8(15.9)
Loading quantity	40'GP	set	14	14	14
	40'HQ	set	21	21	21

Control System Lineup

Wireless remote controller	Wired remote controller		Long-distance monitoring software	BMS accessories	
			Gree AC Eudemon 2009*1	Communication module (modbus)	GMV BACnet gateway*2 (BACnet)
Y512	Z6E351	J502 (Receiver)	FE30-00/A (M)	ME30-00/E2	MG30-24/D1 (B)
●	●	○	○	○	○

Centralized controller			Other modules		
Group controller (mini centralized controller)	Centralized controller*3 (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.
 *1 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.
 *2: If MG30-24/D1(B) is selected, the communication module shall be selected also. The maximum quantity is 4. 4-outdoor-unit combinations can match 64 indoor units at most.
 *3: Centralized controller and Gree AC Eudemon 2009 cannot access networks at the same time.

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

- 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.

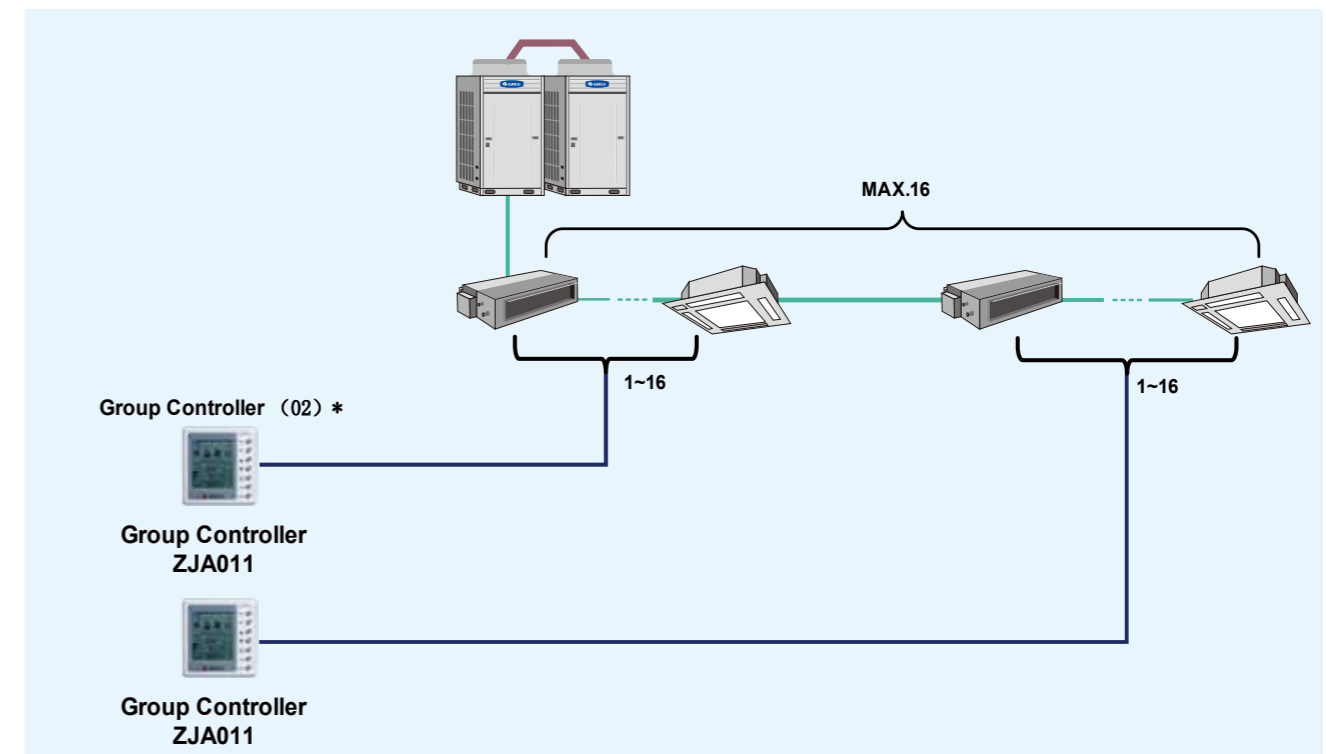
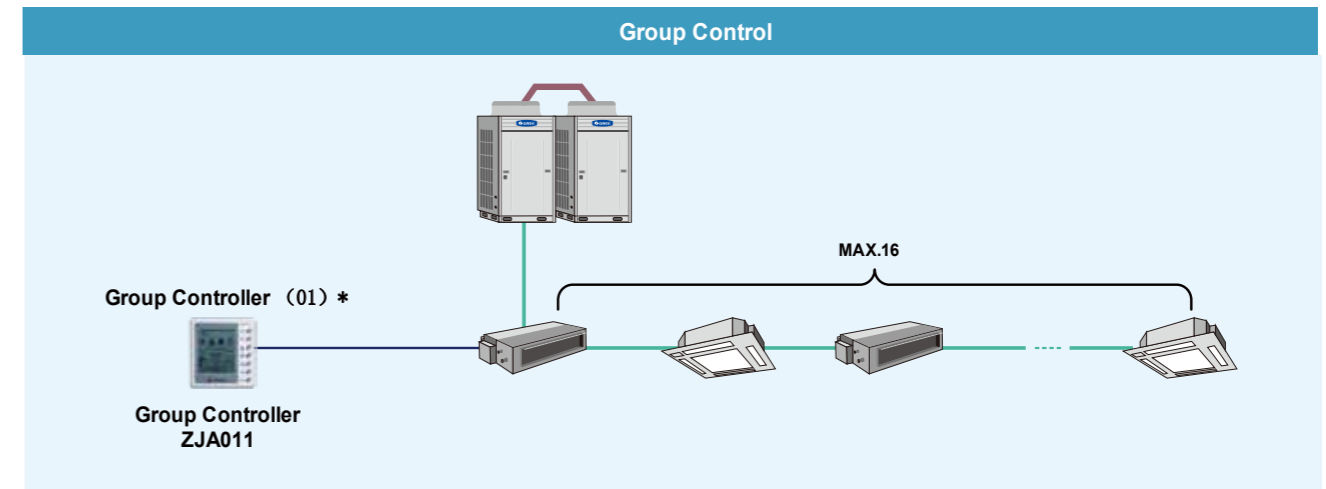
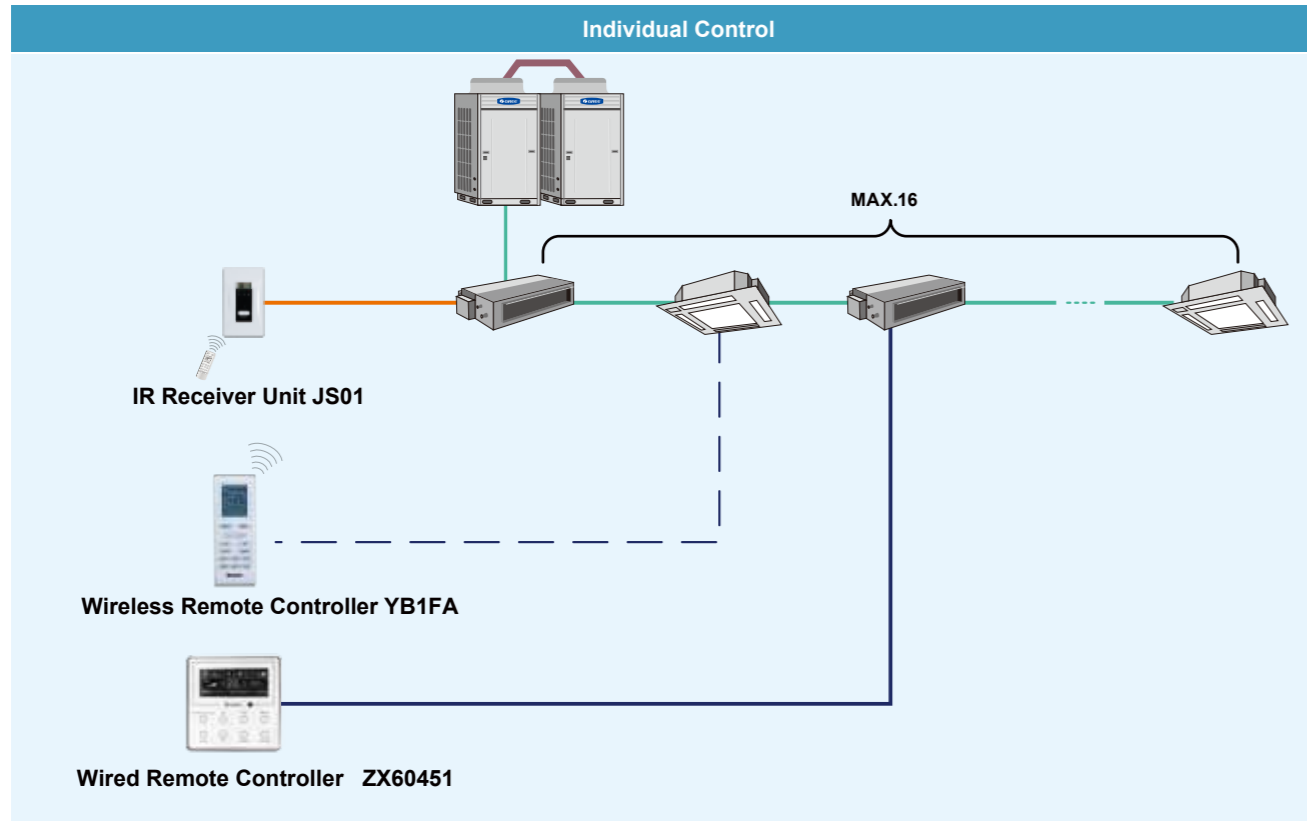


Model			FHBQ-D3.5-K	FHBQ-D5-K	FHBQ-D8-K	FHBQ-D10-K	FHBQ-D15-M	FHBQ-D20-M	FHBQ-D30-M
Air flow Volume	H/M/L	m ³ /h	350/260/210	500/380/300	800/600/480	1000/750/600	1500	2000	3000
ESP	H/M/L	Pa	100/80/60	100/80/60	110/85/65	110/85/65	150	150	220
Temperature exchange efficiency	H/M/L	%	71/73/75	68/70/72	70/72/74	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		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	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
Dimension (WxDxH)	Outline	mm	800x879x306	800x879x306	832x1016x380	832x1016x380	1210x1215x452	1210x1215x452	1340x1550x572
	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	set	147	147	85	59	37	37	24
	40'HQ	set	168	168	104	67	44	44	24
Standard wired remote controller			Z5N15	Z5N15	Z5N15	Z5N15	Z5N15	Z5N15	—

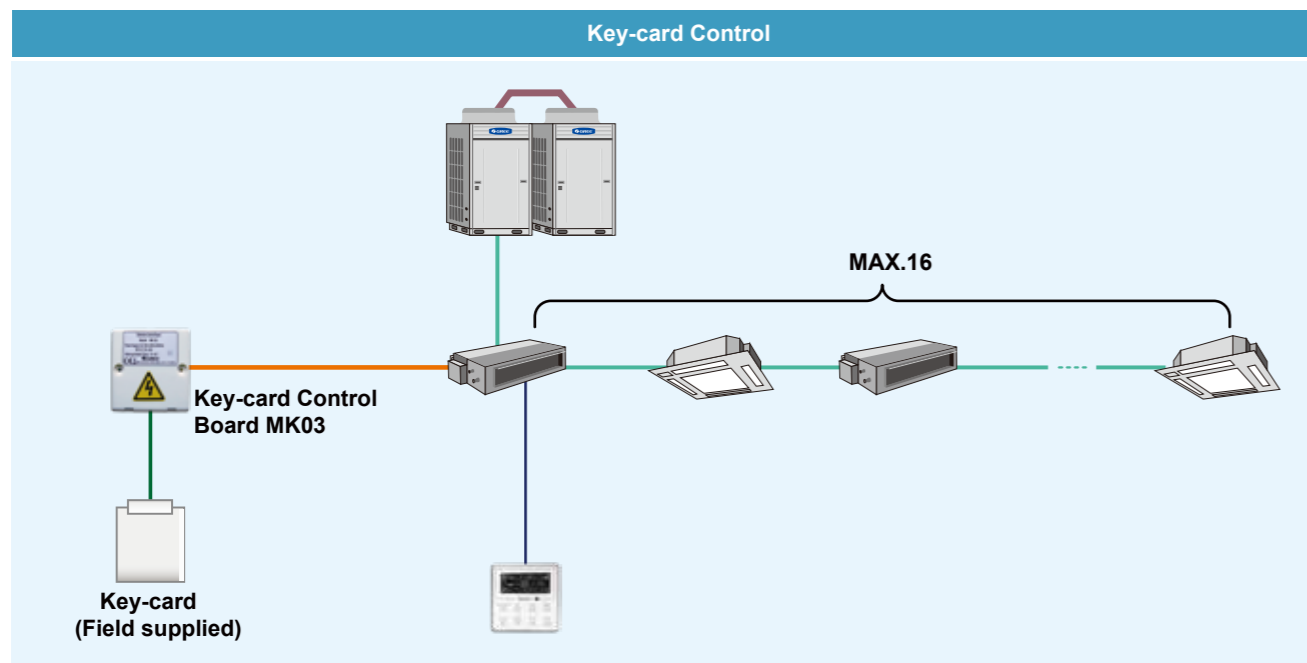
Control System Lineup

Control system		Product series		Inverter series & HOME GMV						Heat recovery series				ERV		
				Duct type	Cassette type	Wall-mounted type	Floor ceiling type	Floor ceiling type		Console type	Floor standing type	Duct type	Cassette type	Floor ceiling type	Wall-mounted type	
																
Wireless remote controller	Y512		●	●	●						●	●	●			
	YB1FA		●	●	●	●		●		●	●					
	YB1F2								●							
Wired controller	Z63151F (Heat/Cool)		●	●	●	●		●	○		●	●	●			
	Z60351F (Heat/Cool)		●							●						
	Z5N151													●		
	ZX60451		○	○	○	○	○		○	○	○	○	○			
	JS02 (Receiver)		○								○					
Centralized controller	Group controller (mini centralized controller)	ZJA011		○	○	○	○	○		○	○	○	○			
	Centralized controller(modbus)	CE51-24/E(M)*1		○	○	○	○	○		○	○	○	○			
	Smart zone controller	CE50-24/E		○	○	○	○	○		○	○	○	○			
BMS accessories	Communication module (modbus)	ME30-00/E2		○	○	○	○	○		○	○	○	○			
	Communication module (modbus)	ME30-24/E2(M)		○	○	○	○	○		○	○	○	○			
	GMV BACnet gateway (BACnet)	MG30-24/D1(B)*2		○	○	○	○	○		○	○	○	○			
	Interface of the main board	BMS												●		
Long-distance monitoring software	Gree AC Eudemon 2009*1	FE30-00/A(M)		○	○	○	○	○		○	○	○	○			
Other modules	Key-card control board	MK03		○	○	○	○	○		○	○	○	○			
	Optoelectronic isolated converter	RS232-RS422V485		○	○	○	○	○		○	○	○	○	○		
	Optoelectronic isolated signal multiplier	RS-422V485		○	○	○	○	○		○	○	○	○	○		

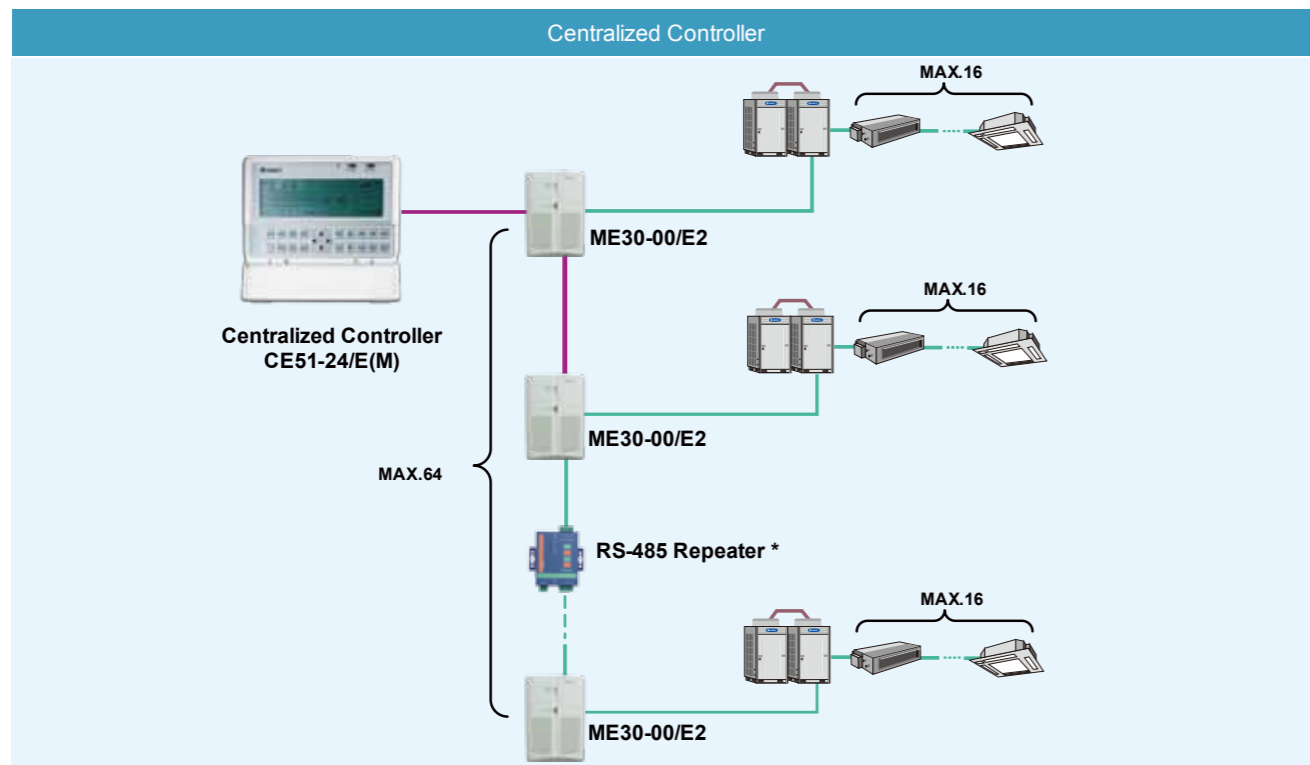
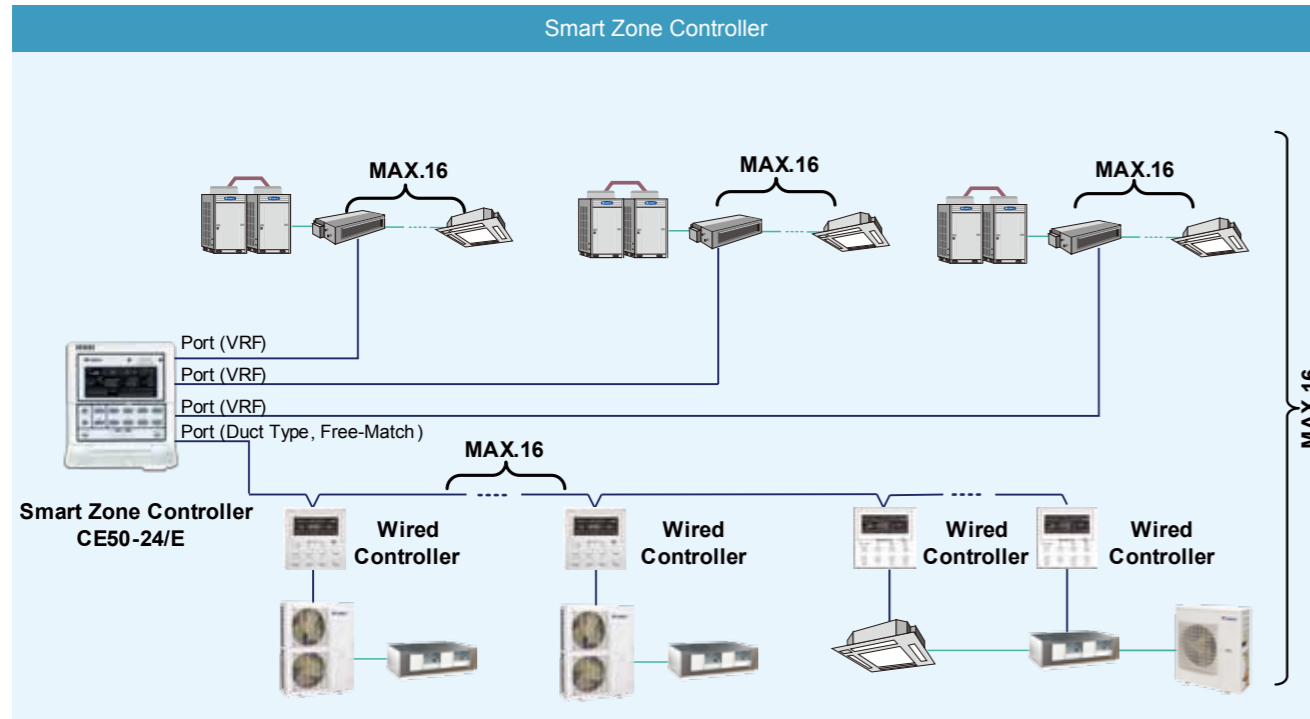
Note:
 ● means standard, ○ means optional.
 *1 If centralized controller CE51-24/E(M) or long-distance monitoring software Gree Eudemon 2009 is selected, the communication module shall be selected also. The quantity of the module should be confirmed according to the quantity of outdoor units.
 *2 If MG30-24/D1(B) is selected, the communication module shall be selected also. The maximum quantity is 4. 4-outdoor-unit combinations can match 64 indoor units at most.



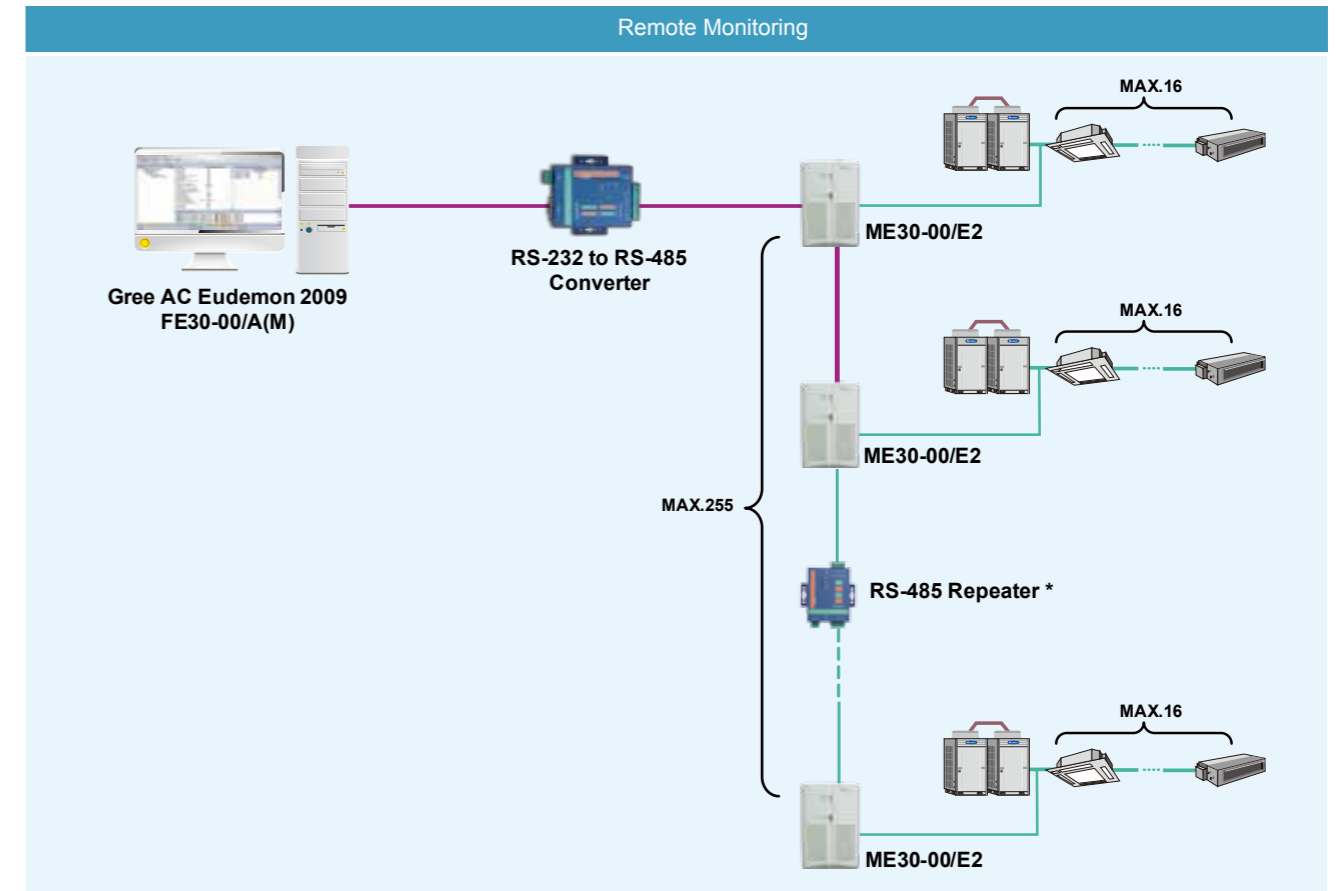
*: 01 indicates the group controller working together with the individual wired controller while 02 indicates the group controller working without the individual wired controller.



- Transmission line (GMV network)
- Group controller line
- Remote controller line
- IR receiver line
- Key-card control board line
- Key-card signal line

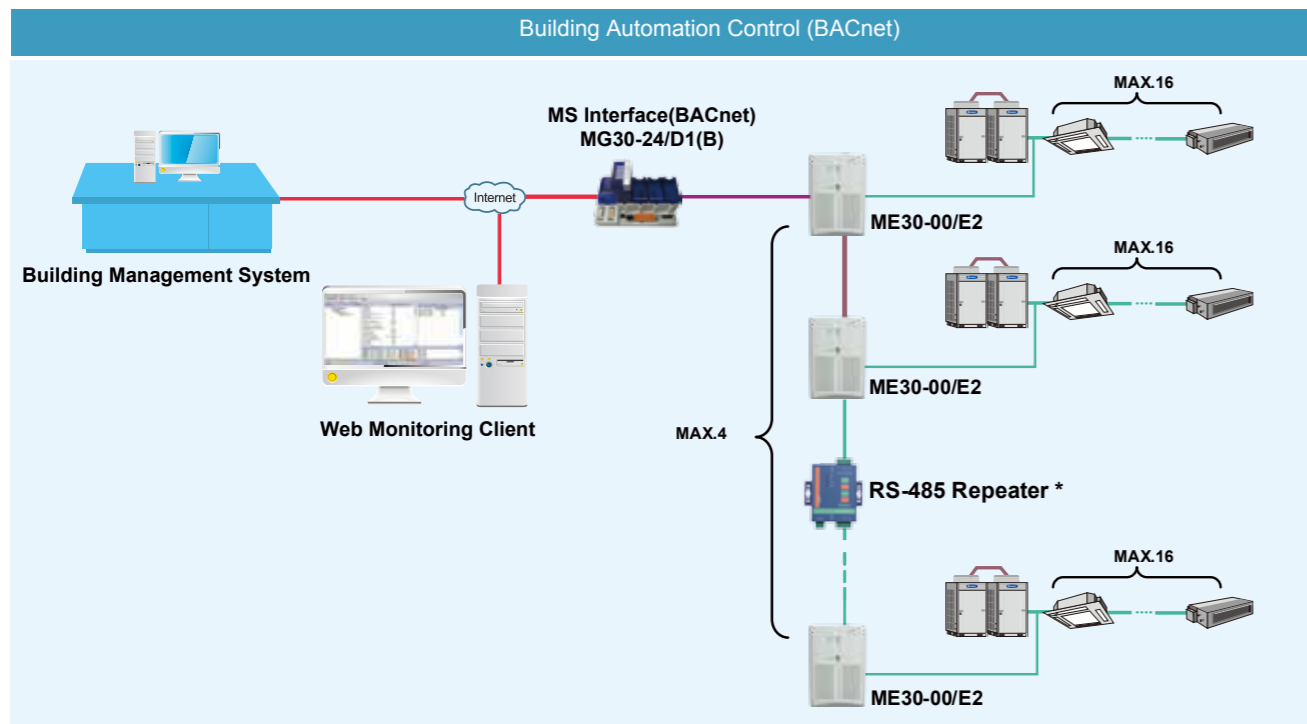


*: It applies when the communication line exceeds 800m or more than 30 communication modules are put into use.

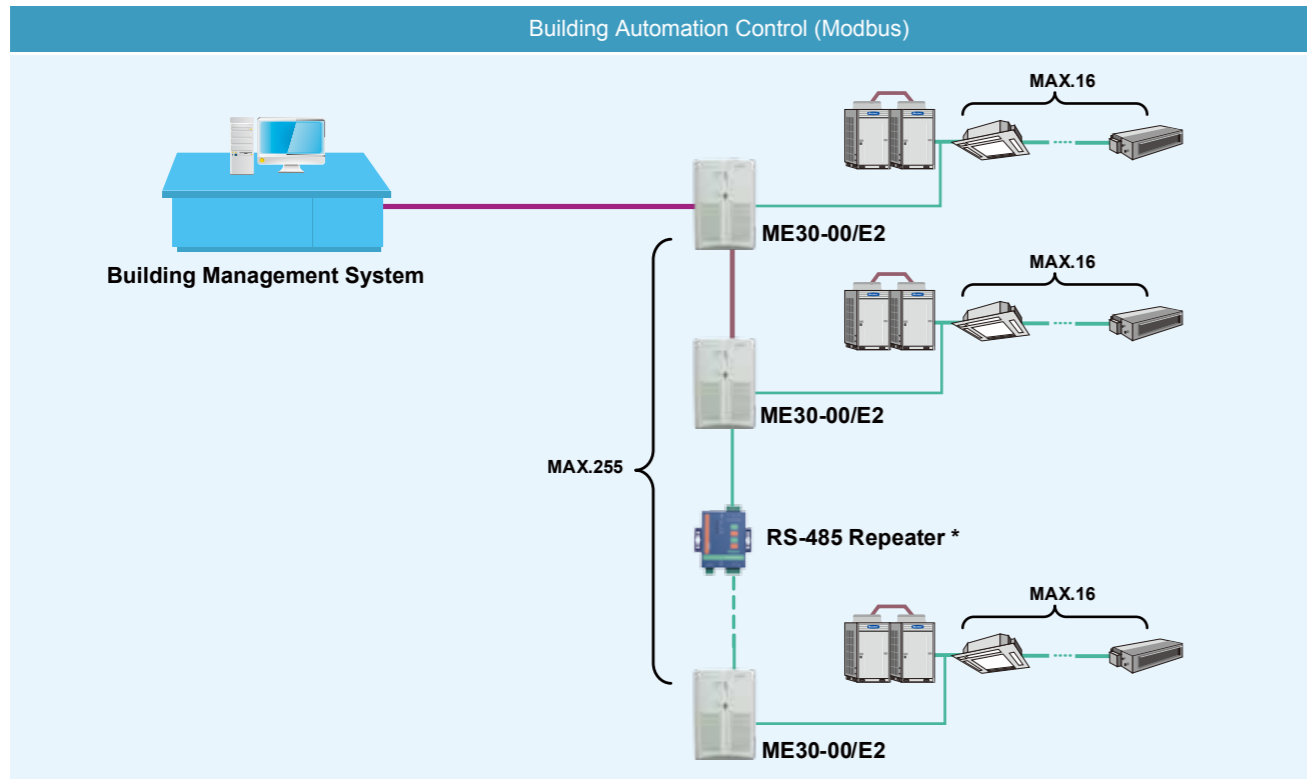


*: It applies when the communication line exceeds 800m or more than 30 communication modules are put into use.

— Transmission line (GMV network)
— Modbus network



*: It applies when the communication line exceeds 800m.



*: It applies when the communication line exceeds 800m or more than 30 communication modules are put into use.

- Module link
- Transmission line (GMV network)
- BACnet network



3 IN 1

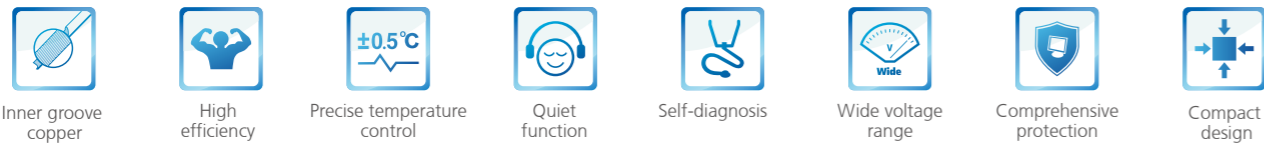
Versati
Versati II



Versati



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)		Outdoor condition
	Nominal operating condition		
	DB(°C)	WB(°C)	DB(°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	15.5	
	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	kg		1.7	2.0	2.0	3.3	3.3	3.3
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 diameter	Gas	inch(mm)	φ1/2(12.7)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)
	Liquid	inch(mm)	φ1/4(6.35)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)
Dimensions (WxDxH)	Outline	mm	921x427x791	921x427x791	921x427x791	950x412x1253	950x412x1253	950x412x1253
	Packaged	mm	1068x488x855	1068x488x855	1068x488x855	1113x453x1400	1113x453x1400	1113x453x1400
Net weight/Gross weight	kg		66/71	69/74	69/74	99/108	99/108	99/108
Loading quantity	40'GP/40'HQ	set	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	3.50/4.05
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	kg		3.5	3.5	3.5
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 diameter	Gas	inch(mm)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)
	Liquid	inch(mm)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)
Dimensions (WxDxH)	Outline	mm	950x412x1253	950x412x1253	950x412x1253
	Packaged	mm	1113x453x1400	1113x453x1400	1113x453x1400
Net weight/Gross weight	kg		99/108	99/108	99/108
Loading quantity	40'GP/40'HQ	set	52/52	52/52	52/52

Note:

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

- * Cooling conditions.
 - * Indoor Water Temperature 23°C/18°C.
 - * Outdoor Air Temperature 35°CDB/24°CWB.
- * Heating conditions.
 - * Indoor Water Temperature 30°C/35°C.
 - * Outdoor Air Temperature 7°CDB/6°CWB.
 - * Standing piping length 7.5m.

2.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.

3. For floor cooling.

4. For floor heating.

5. For fan coil unit.

6. 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					
Normal input	W	3200					
Leaving water temperature	Cooling*1	7~25					
	Cooling*2	18~25					
	Heating*1	25~55(High temperature cycle)					
	Heating*3	25~45(Low temperature cycle)					
Pump	Type	Water-cooled					
	Nr. of speed	3					
	Power input	200					
	Water flow limit	LPM					
Electric Heater	Operation	Automatic					
	Steps	2					
	Capacity	kW					
	Combination	kW					
	Power input	Ph/V/Hz					
Sound pressure level	dB(A)	31					
Connecting pipe diameter	Gas	inch(mm)					
	Liquid	inch(mm)					
Dimensions (WxDxH)	Outline	mm					
	Packaged	mm					
Net weight/Gross weight	kg	52/62					
Loading/quantity	40'GP/40'HQ	set					

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		
Normal input	W	6200		
Leaving water temperature	Cooling*1	7~25		
	Cooling*2	18~25		
	Heating*1	25~55(High temperature cycle)		
	Heating*3	25~45(Low temperature cycle)		
Pump	Type	Water-cooled		
	Nr. of speed	3		
	Power input	200		
	Water flow limit	LPM		
Electric Heater	Operation	Automatic		
	Steps	1		
	Capacity	kW		
	Combination	kW		
	Power input	Ph/V/Hz		
Sound pressure level	dB(A)	31		
Connecting pipe diameter	Gas	inch(mm)		
	Liquid	inch(mm)		
Dimensions (WxDxH)	Outline	mm		
	Packaged	mm		
Net weight/Gross weight	kg	53/63		
Loading/quantity	40'GP/40'HQ	set		

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			
Power supply	Ph/V/Hz	1/230/50			
Electric heater power	W	3000			
Screw thread spec of pipe	Cool water inlet	inch(mm)			
	Hot water outlet	inch(mm)			
Dimension	Outline	mm			
	Packaged	mm			
Net weight/Gross weight	kg	68/77			
Loading quantity	40'GP/40'HQ	set			

Model		SXVD200LCJ/A-M	SXVD200LCJ2/A-M	SXVD300LCJ/A-M	SXVD300LCJ2/A-M
Water tank volume	L	200			
Power supply	Ph/V/Hz	3/400/50			
Electric heater power	W	3000			
Screw thread spec of pipe	Cool water inlet	inch(mm)			
	Hot water outlet	inch(mm)			
Dimension	Outline	mm			
	Packaged	mm			
Net weight/Gross weight	kg	68/77			
Loading quantity	40'GP/40'HQ	set			

Versati II

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.



12/13.5/14kW



200/300L



Wired controller Z263M/Z263L



Floor Heating Debugging



High efficiency



Precise temperature control



Quiet function



Self-diagnosis



Wide voltage range



Comprehensive protection



Compact design

- 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.
- The unit will periodically increase or decrease water temperature in debugging process, to improve floor adaptability for temperature change.



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

Outdoor Unit

Model		GRS-CQ6.0Pd/NaB-K(O)	GRS-CQ8.0Pd/NaB-K(O)	GRS-CQ10Pd/NaB-K(O)	GRS-CQ12Pd/NaB-K(O)	GRS-CQ14Pd/NaB-K(O)	GRS-CQ16Pd/NaB-K(O)	
Capacity*1	Cooling*3	kW	5.7	9.5	11	12.5	13.5	14.5
	Heating*4	kW	6.5	9	10	12.5	13.5	15.5
Power Input*1	Cooling*3	kW	1.63	2.57	3.24	3.57	4.09	4.53
	Heating*4	kW	1.57	2.17	2.44	2.81	3.07	3.78
EER/COP*1		W/W	3.5/4.15	3.7/4.15	3.4/4.1	3.5/4.45	3.3/4.4	3.2/4.1
Capacity*2	Cooling*5	kW	5	7	8.5	9.5	10	10.5
	Heating*6	kW	5.8	8.5	9	11	12	14
Power Input*2	Cooling*5	kW	1.85	2.59	3.15	3.39	3.57	3.96
	Heating*6	kW	1.9	2.79	2.81	3.14	3.48	4
EER/COP*2		W/W	2.7/3.05	2.7/3.05	2.7/3.2	2.8/3.5	2.8/3.45	2.65/3.5
Refrigerant charge volume		kg	1.7	2.1	2.1	3.2	3.2	3.2
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	55	55	57
	Heating	dB(A)	59	59	59	57	57	58
Connecting pipe diameter	Gas	inch(mm)	φ1/2(12.7)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)
	Liquid	inch(mm)	φ1/4(6.35)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)
Dimensions (WxDxH)	Outline	mm	921x427x791	921x427x791	921x427x791	900x412x1345	900x412x1345	900x412x1345
	Packaged	mm	1065x485x840	1065x485x840	1065x485x840	998x458x1515	998x458x1515	998x458x1515
Net weight/Gross weight		kg	66/71	66/71	66/71	106/118	106/118	106/118
	40'GP	-	96	96	96	50	50	50
Loading quantity	40'HQ	-	144	144	144	50	50	50

Model		GRS-CQ12Pd/NaB-M(O)	GRS-CQ14Pd/NaB-M(O)	GRS-CQ16Pd/NaB-M(O)	
Capacity*1	Cooling*3	kW	14	15.5	15
	Heating*4	kW	13	14	16
Power Input*1	Cooling*3	kW	4.12	4.63	4.62
	Heating*4	kW	2.86	3.18	3.9
EER/COP*1		W/W	3.4/4.55	3.35/4.4	3.25/4.1
Capacity*2	Cooling*5	kW	10.5	11	11.5
	Heating*6	kW	11.5	12	14.5
Power Input*2	Cooling*5	kW	3.56	3.93	4.26
	Heating*6	kW	2.95	3.38	4.03
EER/COP*2		W/W	2.95/3.9	2.8/3.55	2.7/3.6
Refrigerant charge volume		kg	3.4	3.4	3.4
Sanitary water temperature		°C	40~80	40~80	40~80
Sound pressure level	Cooling	dB(A)	55	55	57
	Heating	dB(A)	57	57	58
Connecting pipe diameter	Gas	inch(mm)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)
	Liquid	inch(mm)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)
Dimensions (WxDxH)	Outline	mm	900x412x1345	900x412x1345	900x412x1345
	Packaged	mm	998x458x1515	998x458x1515	998x458x1515
Net weight/Gross weight		kg	108/120	108/120	108/120
	40'GP	-	50	50	50
Loading quantity	40'HQ	-	50	50	50

Note:

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

- Cooling conditions.
- Indoor Water Temperature 23°C/18°C.
- Outdoor Air Temperature 35°CDB/24°CWB.
- Heating conditions.
- Indoor Water Temperature 30°C/35°C.
- Outdoor Air Temperature 7°CDB/6°CWB.
- Standing piping length 7.5m.

2.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.

- 3. For floor cooling.
- 4. For floor heating.
- 5. For fan coil unit.
- 6. For fan coil or radiator.

Indoor Hydro Unit

Model	Indoor unit	GRS-CQ6.0Pd/NaB-K(I)	GRS-CQ8.0Pd/NaB-K(I)	GRS-CQ10Pd/NaB-K(I)	GRS-CQ12Pd/NaB-K(I)	GRS-CQ14Pd/NaB-K(I)	GRS-CQ16Pd/NaB-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	
Normal input		W	3200	6200	6200	6200	6200	
Leaving water temperature	Cooling*1	°C	7~25	7~25	7~25	7~25	7~25	
	Cooling*2	°C	18~25	18~25	18~25	18~25	18~25	
	Heating*1	°C	25~55(High temperature cycle)					18~25
	Heating*2	°C	25~45(Low temperature cycle)					18~25
Pump	Type	-	Water-cooled					
	Nr. of speed	-	3	3	3	3	3	
	Power input	W	200	200	200	200	200	
	Water flow limit	LPM	7.5	7.5	7.5	7.5	7.5	
Electric Heater	Operation	-	Automatic	Automatic	Automatic	Automatic	Automatic	
	Steps	-	2	2	2	2	2	
	Capacity	kW	3	3	3	3	3	
	Combination	kW	1.5+1.5	3+3	3+3	3+3	3+3	
Sound pressure level		dB(A)	31	31	31	31	31	
	Power input	PhV/Hz	1/230/50	1/230/50	1/230/50	1/230/50	1/230/50	
Connecting pipe diameter	Gas	inch(mm)	φ1/2(12.7)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)	
	Liquid	inch(mm)	φ1/4(6.35)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)	
Dimensions (WxDxH)	Outline	mm	900x500x324	900x500x324	900x500x324	900x500x324	900x500x324	
	Packaged	mm	1040x605x380	1040x605x380	1040x605x380	1040x605x380	1040x605x380	
Net weight/Gross weight		kg	52/62	52/62	52/62	57/66	57/66	
Loading quantity	40'GP/40'HQ	-	205/246	205/246	205/246	205/246	205/246	

Model	Indoor unit	GRS-CQ12Pd/NaB-M(I)	GRS-CQ14Pd/NaB-M(I)	GRS-CQ16Pd/NaB-M(I)
Power Supply		V/Ph/Hz	3/380-415/50	3/380-415/50
Normal input		W	6200	6200
Leaving water temperature	Cooling*1	°C	7~25	7~25
	Cooling*2	°C	18~25	18~25
	Heating*1	°C	25~55(High temperature cycle)	
	Heating*2	°C	25~45(Low temperature cycle)	
Pump	Type	-	Water-cooled	
	Nr. of speed	-	3	3
	Power input	W	200	200
	Water flow limit	LPM	7.5	7.5
Electric Heater	Operation	-	Automatic	Automatic
	Steps	-	1	1
	Capacity	kW	6	6
	Combination	kW	6	6
Sound pressure level		dB(A)	31	31
	Power input	PhV/Hz	3/400/50	3/400/50
Connecting pipe diameter	Gas	inch(mm)	φ5/8(15.9)	φ5/8(15.9)
	Liquid	inch(mm)	φ3/8(9.52)	φ3/8(9.52)
Dimensions (WxDxH)	Outline	mm	900x500x324	900x500x324
	Packaged	mm	1040x605x380	1040x605x380
Net weight/Gross weight		kg	57/66	57/66
Loading quantity	40'GP/40'HQ	-	205/246	205/246

Note:

*1 for fan coil unit, *2 for floor cooling, *3 for floor heating

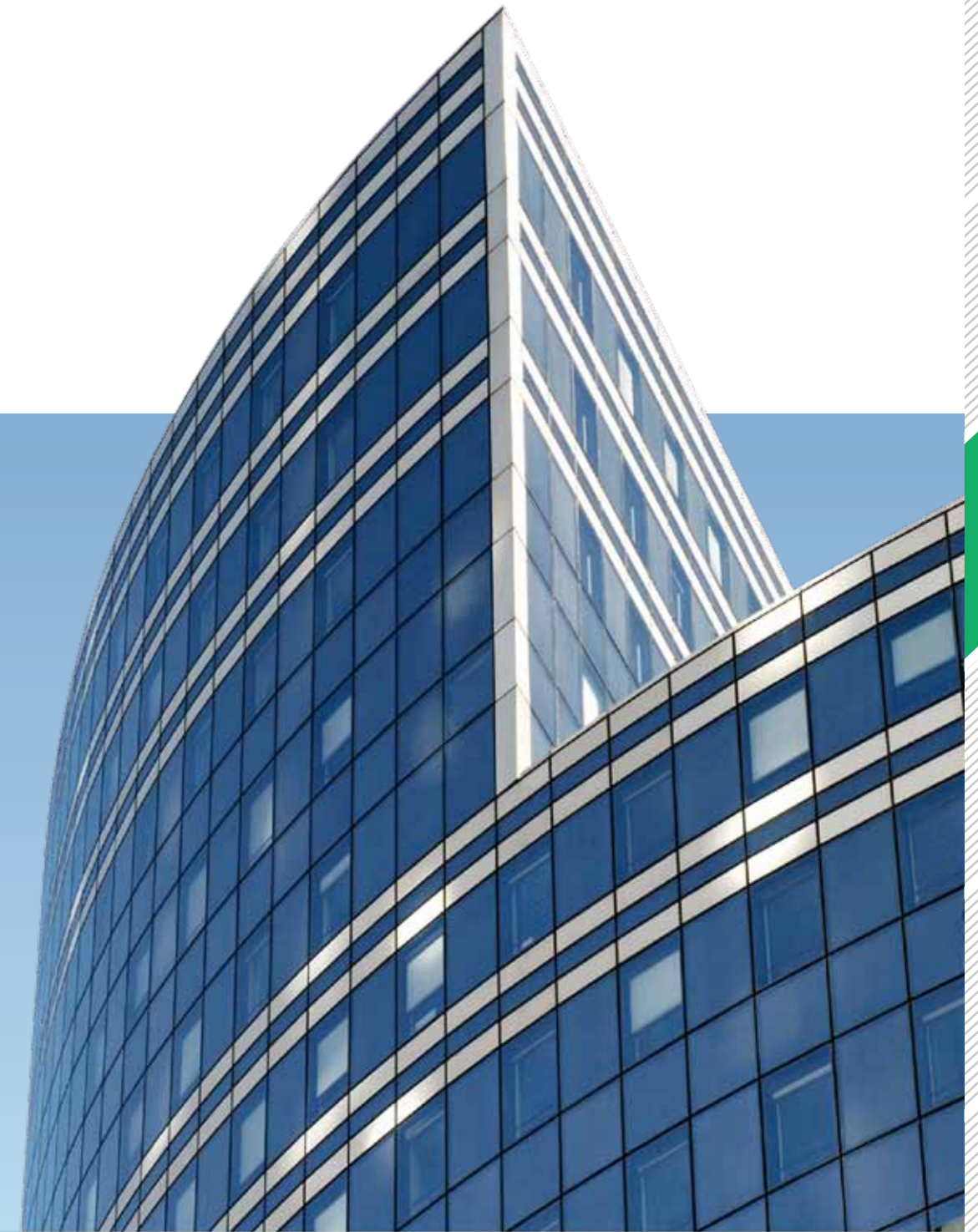
Water Tank

Model		SXVD200LCJ/A-K	SXVD200LCJ2/A-K	SXVD300LCJ/A-K	SXVD300LCJ2/A-K
Water tank volume	L	200	200	300	300
Power supply	PhV/Hz	1/230/50	1/230/50	1/230/50	1/230/50
Electric heater power	W	3000	3000	3000	3000
Screw thread spec of pipe	Cool water inlet	inch(mm)	φ1/2"Female BSP(12.7)	φ1/2"Female BSP(12.7)	φ1/2"Female BSP(12.7)
	Hot water outlet	inch(mm)	φ1/2"Female BSP(12.7)	φ1/2"Female BSP(12.7)	φ1/2"Female BSP(12.7)
Dimension	Outline	DiameterxH	mm	φ540x1595	φ620x1620
	Packaged	WxDxH	mm	1623x628x645	1648x708x725
Net weight/Gross weight		kg	68/77	71/80	82/92
Loading quantity	40'GP/40'HQ	set	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	PhV/Hz	3/400/50	3/400/50	3/400/50	3/400/50
Electric heater power	W	3000	3000	3000	3000
Screw thread spec of pipe	Cool water inlet	inch(mm)	φ1/2"Female BSP(12.7)	φ1/2"Female BSP(12.7)	φ1/2"Female BSP(12.7)
	Hot water outlet	inch(mm)	φ1/2"Female BSP(12.7)	φ1/2"Female BSP(12.7)	φ1/2"Female BSP(12.7)
Dimension	Outline	DiameterxH	mm	φ540x1595	φ620x1620
	Packaged	WxDxH	mm	1623x628x645	1648x708x725
Net weight/Gross weight		kg	68/77	71/80	82/92
Loading quantity	40'GP/40'HQ	set	75/100	75/100	63/63

SCROLL CHILLER

Mini Chiller
Modular Air-cooled Scroll Chiller



SCROLL CHILLER

SCROLL CHILLER

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



7.5/10/12.5kW

14.2kW

Integral type



21.5/22.8kW

31/42kW



Inner groove copper



Self-diagnosis



Comprehensive protection



Modular structure*



Memory function



Wired controller Z16301/Z12301A



Wired controller Z26301C



- Unique wired control of chiller, realize general control and individual control.
- Low start-up current thanks to power delay control design.(for the unit of 22kW and above).
- 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 560kW (only applicable for the modular model HLR35SM/NaA-M).



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	2.14/2.73	2.27/2.73	2.19/2.71	2.49/3.11
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	5.00
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 screw thread spec		inch	1"Female BSP	1"Female BSP	1"Female BSP	1"Female BSP
Indoor unit	Sound pressure level	dB(A)	38	38	38	38
	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
	Dimension (WxDxH)	Outline mm	950x412x840	950x412x1250	950x412x1250	950x412x1250
		Packaged mm	1110x450x985	1110x450x1385	1110x450x1385	1110x450x1385
	Net weight/Gross weight	kg	90/100	112/123	115/129	119/129
Outer diameter of connection pipe	Liquid pipe	inch(mm)	φ1/2(12.7)	φ1/2(12.7)	φ1/2(12.7)	φ1/2(12.7)
	Gas pipe	inch(mm)	φ3/4(19.05)	φ3/4(19.05)	φ3/4(19.05)	φ3/4(19.05)
Loading quantity		set	52/52	63/64	63/64	63/64
Standard controller		Wired			Z16301	

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	HLR35SM/NaA-M
Capacity	Cooling	kW	21.5	22.8	31	42	31
	Heating	kW	25	25	37.5	49	36
EER/COP		W/W	2.50/2.91	2.59/2.81	2.61/3.00	2.30/2.80	2.60/2.88
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	8.6	8.8	11.9	18.3	11.9
	Heating	kW	8.6	8.9	12.5	17.5	12.5
Compressor	Type	—	Scroll	Scroll	Scroll	Scroll	Scroll
	Quantity	—	2	2	2	2	2
Refrigerant charge volume		kg	3.6x2	4.8x2	6.5x2	7.3x2	6.5x2
Water flow volume		l/s	1.05	1.2	1.4	2.2	1.4
		GPM	13.9	15.8	22.0	29.0	22.0
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 screw thread spec		inch	1"Female BSP	1"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
Dimension (WxDxH)	Outline	mm	1460x530x1850	1460x530x1850	1750x800x1760	1750x800x1760	1750x800x1760
	Packaged	mm	1540x710x2100	1540x710x2100	1910x960x1970	1910x960x1970	1910x960x1970
Net weight/Gross weight		kg	380/387	380/392	680/690	755/765	600/610
Loading quantity		set	25/25	25/25	12/12	12/12	12/12
Standard controller		Wired			Z12301A		Z26301C

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	45~50	3~8	7	6	-15~28

SCROLL CHILLER

Modular Air-cooled Scroll Chiller

R410A

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.

D 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 (60/71kW) or 8 units (120/145kW) can be integrated freely to get a max capacity of 1160kW thanks to modular design.
- Auto anti-freezing function under heating mode when the unit is switched off.



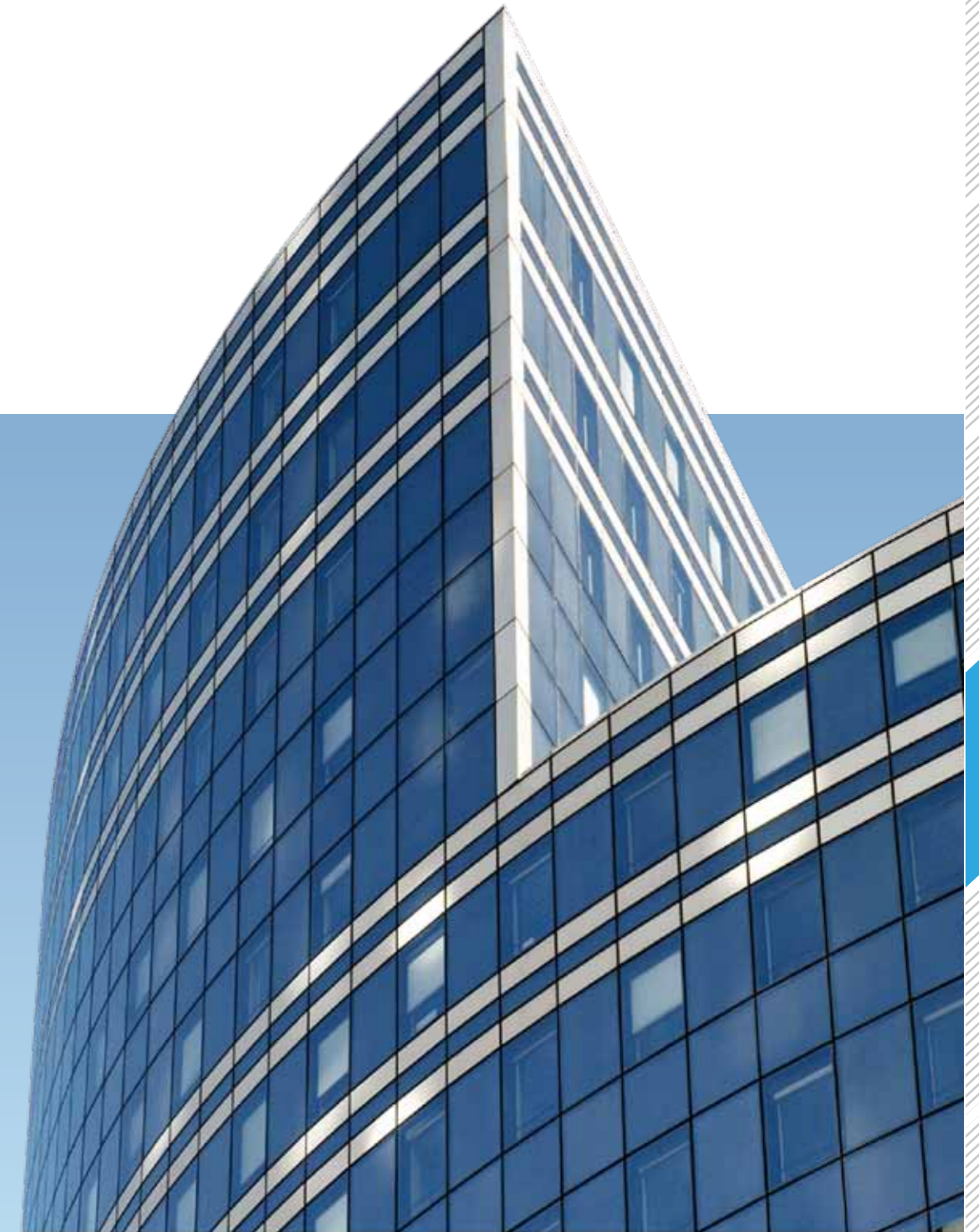
Item	Water side (water temperature)				Air side (outdoor temperature)		
	Nominal operating condition		Operating range		Nominal operating condition		Operating range
	Inlet(°C)	Outlet(°C)	Outlet(°C)	I/O difference(°C)	DB(°C)	WB(°C)	DB(°C)
Cooling	12	7	5~15	2.5~6	35	—	15~45
Heating	40	45	40~50	2.5~6	7	6	-15~24

Model	Heat pump		LSQWRF65M/NaD-M	LSQWRF80M/NaD-M	LSQWRF130M/NaD-M	LSQWRF160M/NaD-M
Capacity	Cooling/Heating	kW	60/65	71/79.5	120/130	145/170
		RT	17.0/18.5	20.2/22.6	34.1/37.0	41.2/48.3
Capacity steps		%	0-50-100	0-50-100	0-25-50-75-100	0-25-50-75-100
EER/COP		W/W	2.84/3.09	2.76/2.94	2.84/2.93	2.74/3.04
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	21.1	25.7	42.3	53.0
	Heating	kW	21.0	27.0	44.4	56.0
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
Water side heat exchanger	Type		High-efficient shell and tube heat exchanger			
	Water flow volume	L/s	2.9	3.4	5.7	6.9
		GPM	45.0	54.0	91.0	110.0
	Pressure drop	kPa	15	20	30	35
		ft.WG	4.9	6.6	9.8	11.5
Connection pipe		DN65	DN65	DN80	DN80	
Air side heat exchanger	Type		High-efficient fin tube type heat exchanger			
	Fan type and quantity		axialx2	axialx2	axialx4	axialx4
	Total fan air flow	L/s	0.75x10 ⁴	0.83x10 ⁴	1.5x10 ⁴	1.67x10 ⁴
		CFM	1.59x10 ⁴	1.76x10 ⁴	3.18x10 ⁴	3.53x10 ⁴
Total fan motor power	kW	0.65x2	0.95x2	0.65x4	0.95x4	
Sound pressure level		dB(A)	70	71	72	74
Dimension	Outline(WxDxH)	mm	2040x1000x2230	2040x1000x2230	2226x1650x2230	2226x1650x2230
	Package(WxDxH)	mm	2120x1080x2230	2120x1080x2230	2306x1730x2230	2306x1730x2230
Net/Gross/Operating weight		kg	710/715/781	760/765/836	1256/1261/1382	1440/1445/1584
Loading quantity	40'GP/40'HQ	set	10/10	10/10	6/6	6/6

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

SCREW CHILLER

Modular Air-cooled Screw Chiller
Water-cooled Screw Chiller



SCREW CHILLER

Modular Air-cooled Screw Chiller

134a

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.



Note: Photos are for reference only.



- The compressor adopts stepless capacity control, which matches perfectly with actual load.
- Throttling by electronic expansion valve with more accurate control and more rapid adjustment to ensure the best running status of the system.
- Unique extend performance: flexible combination in different models, 4 modules for each system and the cooling capacity can reach 1680kW.
- High efficient oil separator with the efficiency of 99.97%, which greatly improves the reliability of the unit.
- Oil supply is done with the oil pump for the heat pump unit, which can effectively prevent oil supply failure at the low pressure difference of the compressor or during defrosting and thus enhance the operation reliability of the unit.
- The heat pump's economizer design will help to remarkably enhance the heating capacity and EER at low ambient temperature.
- Equipped with perfect protection function to ensure safe running.
- With multiple freeze prevention, can prevent shell and tube heat exchanger from freezing up when the unit is running, powered off or in malfunction condition.



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
Heating	0.172	45	40~50	2.5~8	7	6	-15~24

Model	Cooling only		LSBLGF230MT3/NbA-M	LSBLGF330MT3/NbA-M	LSBLGF430MT3/NbA-M
	Heat pump		LSBLGRF230MT3/NbA-M	LSBLGRF330MT3/NbA-M	LSBLGRF430MT3/NbA-M
Capacity	Cooling/Heating*	kW	220/245	320/355	420/450
		RT	63/70	91/101	119/128
Capacity steps		%	25, 50~100	25, 50~100	25, 50~100
EER/COP*		W/W	2.72/2.88	2.67/2.91	2.88/2.92
Power supply		Ph/V/Hz	3/380/50	3/380/50	3/380/50
Power input	Cooling	kW	81	120	158
		Heating*	kW	85	122
Compressor	Type		semi-hermetic screw	semi-hermetic screw	semi-hermetic screw
	Starting mode		Y—Δ	Y—Δ	Y—Δ
	Quantity		1	1	1
Water side heat exchanger	Type		Dry expansion evaporator	Dry expansion evaporator	Dry Expansion Evaporator
		Water flow volume	m³/h	37.8	55.0
		GPM	167	243	318
	Pressure drop	kPa	≤50	≤50	≤50
		ft.WG	≤16.4	≤16.4	≤16.4
	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		axialx6	axialx8	axialx10
	Total fan air flow	m³/h	12×10⁴	16×10⁴	20×10⁴
		CFM	70634	94179	117724
Total fan motor power	kW	1.5×6	1.5×8	1.5×10	
Sound pressure level		dB(A)	78	79	80
Dimension	Outline(W×D×H)	mm	4000×2250×2550	5000×2250×2550	6000×2250×2550
	Package(W×D×H)	mm	4080×2330×2550	5080×2330×2550	6080×2330×2550
Net/Gross/Operating weight	Cooling only	kg	3860/3880/4246	4970/4990/5467	-
		Heat pump	kg	4020/4040/4422	5270/5290/5797
Loading quantity		set	0/2	0/2	0/1

Model	Cooling only		LSBLGF430MT3/NbA-M	LSBLGF600MT3/NbA-M	LSBLGF900MT3/NbA-M
	Heat pump				
Capacity	Cooling/Heating*	kW	420/-	580/-	880/-
		RT	119/-	165/-	250/-
Capacity steps		%	25, 50~100	25,25~100	25,25~100
EER/COP*		W/W	2.80	2.83	2.80
Power supply		Ph/V/Hz	3/380/50	3/380/50	3/380/50
Power input	Cooling	kW	150	205	314
		Heating*	kW	-	-
Compressor	Type		semi-hermetic screw	Semi-hermetic screw	Semi-hermetic screw
	Starting mode		Y—Δ	Y—Δ	Y—Δ
	Quantity		1	2	2
Water side heat exchanger	Type		Dry Expansion Evaporator	Dry expansion evaporator	Dry expansion evaporator
		Water flow volume	m³/h	72.2	99.8
		GPM	318	440	667
	Pressure drop	kPa	≤50	≤60	≤70
		ft.WG	≤16.4	≤19.68	≤22.96
Connection pipe		DN125	DN150	DN150	
Air side heat exchanger	Type		High-efficient fin tube	Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
	Fan type and quantity		axialx10	axialx12	axialx16
	Total fan air flow	m³/h	20×10⁴	264000	352000
		CFM	117724	70634	94179
Total fan motor power	kW	1.5×10	2.2×12	2.2×16	
Sound pressure level		dB(A)	80	81	83
Dimension	Outline(W×D×H)	mm	6000×2250×2550	7450×2250×2550	9950×2250×2600
	Package(W×D×H)	mm	6080×2330×2550	7530×2330×2550	10030×2330×2600
Net/Gross/Operating weight	Cooling only	kg	5600/5620/6160	7900/7920/8690	11400/11420/12540
		Heat pump	kg	-	-
Loading quantity		set	0/1	0/1	0/1

Note: EER/COP Applicable Standard No. GB/T 18430.1-2007 .
* Only available for heat pump model.

SCREW CHILLER

Water-cooled Screw Chiller



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.



Display panel
Z2G1DJ01



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%.(single comp.) or 12.5%~100%(dual comp.).
- 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	49.76	57.44	65.69	83.03	94.12	106.92
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	5.87	5.71	5.80	5.91	6.02	5.94
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	68.4	77.2	77.2	102.5	117.9	117.9
LRA	A	290A D/485A DD	350A D/585A DD	350A D/585A DD	520A D/801A DD	612A D/943A DD	612A D/943A DD
Compressor	Type	Semi-hermetic twin screw comp.					
	Starting mode	Part winding start					
	Quantity	1	1	1	1	1	1
Refrigerant charge volume	kg	100	100	100	110	120	130
Refrigeration oil	Type	BSE170	BSE170	BSE170	BSE170	BSE170	BSE170
	Charge volume	L	15	15	15	19	19
Evaporator	Type	Flooded Evaporator	Flooded Evaporator	Flooded Evaporator	Flooded Evaporator	Flooded Evaporator	Flooded Evaporator
	Fouling factor	m ² ·c/kW	0.086	0.086	0.086	0.086	0.086
	Water flow volume	m ³ /h	30	35	40	50	57
	GPM	132	154	176	220	251	287
	Pressure drop	kPa	40	45	50	60	60
ft.WG	13.12	14.76	16.40	19.68	19.68	20.34	
Connection pipe	—	DN100	DN100	DN100	DN125	DN125	DN125
Condenser	Type	—	shell and tube	Shell and tube	Shell and tube	Shell and tube	Shell and tube
	Fouling factor	m ² ·c/kW	0.086	0.086	0.086	0.086	0.086
	Water flow volume	m ³ /h	38	43	50	63	71
	GPM	168	190	220	278	313	357
	Pressure drop	kPa	56	57	65	66	67
ft.WG	18.37	18.70	21.32	21.32	21.65	21.98	
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	3160x1150x1587	3160x1150x1587	3160x1150x1587	3160x1400x1680	3160x1400x1680	3160x1400x1720
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

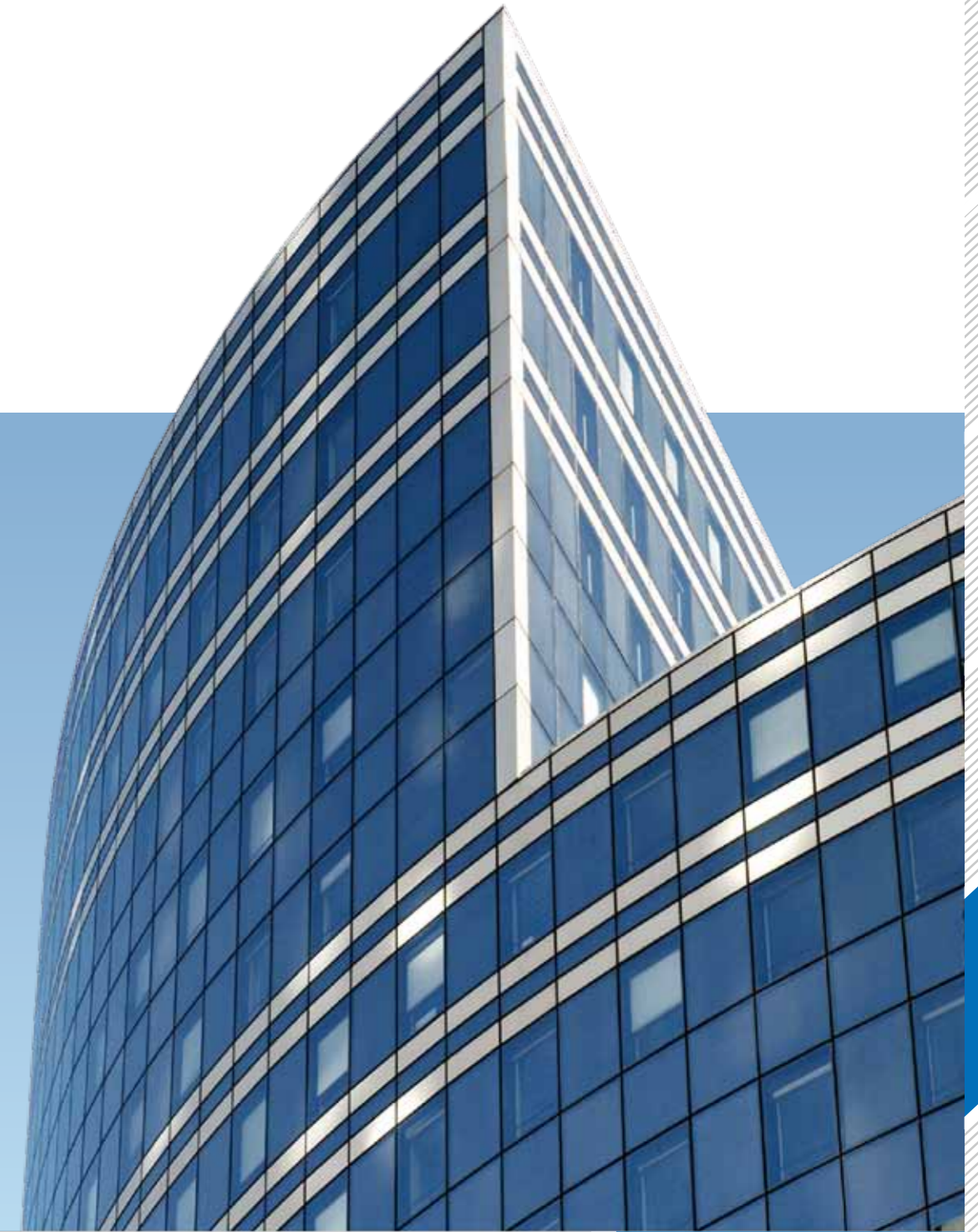
Model		LSBLG450H/Nb-M	LSBLG500H/Nb-M	LSBLG580H/Nb-M	LSBLG640H/Nb-M	LSBLG680H/Nb-M	LSBLG760H/Nb-M
Cooling capacity	kW	442	495	572	636	676	752
	RT	125.69	140.76	162.65	180.85	192.23	213.84
Capacity steps	%	25-100	25-100	25-100	25-100	12.5-100	12.5-100
EER	W/W	5.33	5.32	5.35	5.30	5.37	5.30
IPLV	W/W	6.09	6.08	5.87	5.85	6.01	6.02
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	136.5	154.3	169.6	199.4	102.5	117.9
LRA	A	318A Y/1182A D	436A Y/1364A D	465A Y/1442A D	586A Y/1853A D	520A D/801A DD	612A D/943A DD
Compressor	Type	Semi-hermetic twin screw comp.					
	Starting mode	Y—Δ					
	Quantity	1			1		2
Refrigerant charge volume	kg	210	210	210	200	240	240
Refrigeration oil	Type	BSE170					
	Charge volume	L	35	35	35	35	19
Evaporator	Type	Flooded Evaporator	Flooded Evaporator	Flooded Evaporator	Flooded Evaporator	Flooded Evaporator	Flooded Evaporator
	Fouling factor	m ² ·c/kW	0.086	0.086	0.086	0.086	0.086
	Water flow volume	m ³ /h	76	85	98	109	116
	GPM	335	375	432	481	511	
	Pressure drop	kPa	64	66	68	74	76
ft.WG	20.99	21.65	22.30	24.27	24.93		
Connection pipe	—	DN150	DN150	DN150	DN150	DN200	DN200
Condenser	Type	—	Shell and tube	Shell and tube	Shell and tube	Shell and tube	Shell and tube
	Fouling factor	m ² ·c/kW	0.086	0.086	0.086	0.086	0.086
	Water flow volume	m ³ /h	95	106	123	137	145
	GPM	419	467	542	604	639	
	Pressure drop	kPa	69	71	72	73	76
ft.WG	22.63	23.29	23.62	23.94	24.93		
Connection pipe	—	DN200	DN200	DN200	DN200	DN200	DN200
Sound pressure level	dB(A)	83.9	84.1	84.3	85.4	85.4	84.6
Outline dimension (WxDxH)	mm	3160x1520x2130	3160x1520x2130	3160x1520x2130	3160x1520x2130	3400x1700x2030	3400x1700x2030
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	LSBLG1500H/Nb-M
Cooling capacity	kW	871	990	1144	1275	1395	1500
	RT	247.68	281.51	325.30	362.56	396.68	426.54
Capacity steps	%	12.5-100	12.5-100	12.5-100	12.5-100	12.5-100	12.5-100
EER	W/W	5.34	5.32	5.35	5.62	5.69	5.62
IPLV	W/W	5.94	5.97	5.82	5.98	5.98	6.02
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	163	186	214	227	245	267
RLA	A	136.5	154.3	169.6	199.4	223.0	247.0
LRA	A	318A Y/1182A D	436A Y/1364A D	465A Y/1442A D	586A Y/1853A D	650A Y/2029A D	805A Y/2520A D
Compressor	Type	Semi-hermetic twin screw comp.					
	Starting mode	Y—Δ					
	Quantity	2		2		2	
Refrigerant charge volume	kg	350	350	350	350	450	450
Refrigeration oil	Type	BSE170					
	Charge volume	L	35	35	35	35	38
Evaporator	Type	Flooded Evaporator	Flooded Evaporator	Flooded Evaporator	Flooded Evaporator	Flooded Evaporator	Flooded Evaporator
	Fouling factor	m ² ·c/kW	0.086	0.086	0.086	0.086	0.086
	Water flow volume	m ³ /h	150	170	197	219	240
	GPM	661	750	869	966	1058	
	Pressure drop	kPa	76	77	78	78	80
ft.WG	24.93	25.26	25.58	25.58	26.24		
Connection pipe	—	DN200	DN200	DN200	DN200	DN200	DN200
Condenser	Type	—	Shell and tube	Shell and tube	Shell and tube	Shell and tube	shell and tube
	Fouling factor	m ² ·c/kW	0.086	0.086	0.086	0.086	0.086
	Water flow volume	m ³ /h	187	213	246	274	303
	GPM	825	939	1085	1208	1323	
	Pressure drop	kPa	82	83	84	85	87
ft.WG	26.90	27.22	27.55	27.88	28.54		
Connection pipe	—	DN250	DN250	DN250	DN250	DN250	DN250
Sound pressure level	dB(A)	85.2	85.4	85.6	86.8	87.5	88
Outline dimension (WxDxH)	mm	4150x2020x2230	4150x2020x2230	4150x2020x2230	4150x2020x2230	4900x2000x2230	4900x2000x2230
Net/Gross/Operating weight	kg	6200/6300/6510	6500/6650/6825	6800/6950/7140	7000/7150/7350	8000/8200/8400	8350/8550/8768
Loading quantity	40'GP/40'HQ	set	3/3	3/3	3/3	3/3	3/3

Note: Haven't got EUROVENT certification. Not for European Union market.

CENTRIFUGAL CHILLER

Centrifugal Chiller



CENTRIFUGAL CHILLER

CENTRIFUGAL CHILLER

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.



Touch Screen
CM27-GM8/A1(M)



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		562		625		682		
Capacity adjustment range	%		10-100		10-100		10-100		10-100		10-100		10-100		
EER	W/W		5.53		5.46		5.61		5.65		5.74		5.74		
IPLV	W/W		6.10		6.21		6.38		6.43		6.54		6.53		
Power supply	-M		Ph/V/Hz		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		
Power input	kW		261		293		321		354		383		418		
	A		450.6		505.9		554.2		611.2		661.3		721.7		
RLA	-M		A		450.6		505.9		554.2		611.2		661.3		
	-G		A		17.1		19.2		21.1		23.2		25.1		
Compressor	Type		Semi-hermetic centrifugal compressor												
	Starting mode		Star-delta		Star-delta		Star-delta		Star-delta		Star-delta		Star-delta		
	Quantity		1		1		1		1		1		1		
Refrigerant charge volume	kg		330		360		600		625		650		700		
Refrigeration oil	Type		No.68 synthetic fatty oil												
	Charge volume		L		50		50		60		60		80		
Evaporator	Type		Flooded type evaporator		Flooded type evaporator		Flooded type evaporator		Flooded type evaporator		Flooded type evaporator		Flooded type evaporator		
	Fouling factor	m ² .°C/kW		0.018		0.018		0.018		0.018		0.018		0.018	
		L/s		66.9		76.4		86.1		95.6		105.0		114.7	
	Water flow volume	GPM		1061		1211		1365		1514		1664		1818	
		kPa		75		75		75		75		75		90	
	Pressure drop	ft.WG		25.1		25.1		25.1		25.1		25.1		30.1	
—		DN200		DN200		DN250		DN250		DN250		DN250			
Condenser	Type		Shell and tube		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		0.044	
		L/s		83.6		95.6		107.5		119.4		131.4		143.3	
	Water flow volume	GPM		1325		1514		1704		1893		2082		2272	
		kPa		70		70		70		70		70		85	
	Pressure drop	ft.WG		23.4		23.4		23.4		23.4		23.4		28.5	
—		DN200		DN200		DN250		DN250		DN250		DN250			
Sound pressure level (Max.)	dB(A)		≤88		≤88		≤88		≤90		≤90		≤90		
Dimension	Outline(WxDxH)		mm		3630×1680×2060		3630×1680×2060		4150×1900×2250		4150×1900×2250		4530×2070×2500		
	Package(WxDxH)		mm		3700×1750×2130		3700×1750×2130		4200×1970×2410		4200×1970×2410		4650×2110×2660		
Net/Gross/Operating weight	kg		6300/6500/6800		6600/6800/7100		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		0/0		

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		5.83		5.74		5.78		5.84		5.70		
IPLV	W/W		6.6		6.64		6.53		6.57		6.65		6.48		
Power supply	-M		Ph/V/Hz		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		
Power input	kW		448		480		523		554		582		632		
	A		773.5		828.8		903.0		956.5		1004.9		1091.2		
RLA	-M		A		29.4		31.5		34.3		36.3		38.2		
	-G		A		29.4		31.5		34.3		36.3		38.2		
Compressor	Type		Semi-hermetic centrifugal compressor												
	Starting mode		Star-delta		Star-delta		Star-delta		Star-delta		Star-delta		Star-delta		
	Quantity		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		100		
Evaporator	Type		Flooded type evaporator		Flooded type evaporator		Flooded type evaporator		Flooded type evaporator		Flooded type evaporator		Flooded type evaporator		
	Fouling factor	m ² .°C/kW		0.018		0.018		0.018		0.018		0.018		0.018	
		L/s		124.2		133.9		143.3		152.8		162.5		171.9	
	Water flow volume	GPM		1968		2122		2272		2421		2575		2725	
		kPa		90		90		90		90		90		115	
	Pressure drop	ft.WG		30.1		30.1		30.1		30.1		30.1		38.5	
—		DN250		DN250		DN300		DN300		DN300		DN300			
Condenser	Type		Shell and tube		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		0.044	
		L/s		155.3		167.2		179.2		191.1		203.1		215.0	
	Water flow volume	GPM		2461		2650		2839		3029		3218		3407	
		kPa		85		85		85		85		85		100	
	Pressure drop	ft.WG		28.5		28.5		28.5		28.5		28.5		33.5	
—		DN250		DN250		DN300		DN300		DN300		DN350			
Sound pressure level (Max.)	dB(A)		≤90		≤90		≤90		≤92		≤92		≤92		
Dimension	Outline(WxDxH)		mm		4350×2070×2500		4350×2070×2500		4530×2120×2500		4530×2120×2500		4750×2330×2750		
	Package(WxDxH)		mm		4650×2110×2660		4650×2110×2660		4650×2160×2660		4650×2160×2660		5000×2340×2910		
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		

CENTRIFUGAL CHILLER

Control System Lineup

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	5.74	5.81	5.50	5.82	5.91				
IPLV	W/W	6.53	6.62	6.55	6.62	6.72				
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	662	688	764	825	880			
RLA	-M	A	1143.0	1187.9	1319.1	-	-			
	-G	A	43.4	45.1	50.1	54.1	57.7			
Compressor	Type	-	Semi-hermetic centrifugal compressor							
	Starting mode	-	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
Refrigerant charge volume	kg	925	950	1000	1050	1100				
Refrigeration oil	Type	-	No.68 synthetic fatty oil							
	Charge volume	L	100	100	100	100	100			
Evaporator	Type	-	Flooded type evaporator							
	Fouling factor	m ² ·c/kW	0.018	0.018	0.018	0.018	0.018	0.018		
	Water flow volume	L/s	181.7	191.1	210.3	229	248.3			
		GPM	2879	3029	3332	3636	3936			
	Pressure drop	kPa	115	115	115	115	115			
		ft.WG	38.5	38.5	38.5	38.5	38.5			
Connection pipe	-	DN300	DN300	DN350	DN350	DN350				
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			
	Water flow volume	L/s	226.9	238.9	262.8	286.7	310.6			
		GPM	3597	3786	4164	4543.053354	4922			
	Pressure drop	kPa	100	100	105	105	105			
ft.WG		33.5	33.5	35.2	35.2	35.2				
Connection pipe	-	DN350	DN350	DN350	DN350	DN350				
Sound pressure level (Max.)	dB(A)	≤92	≤92	≤92	≤95	≤95				
Dimension	Outline(WxDxH)	mm	4750×2330×2750	4750×2330×2750	4750×2480×2750	4750×2480×2750	4750×2480×2750			
	Package(WxDxH)	mm	5000×2340×2910	5000×2340×2910	5000×2490×2910	5000×2490×2910	5000×2490×2910			
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			

Two-stage

Model	LSBLX5600S-G		LSBLX6000S-G		LSBLX6400S-G		LSBLX6800S-G		LSBLX7200S-G	
	Cooling capacity	kW	5600	6000	6400	6800	7200			
	RT	1591	1706	1818	1934	2044				
Capacity adjustment range	%	10-100	10-100	10-100	10-100	10-100				
EER	W/W	5.89	5.94	5.97	5.98	6.03				
IPLV	W/W	6.71	6.76	6.79	6.80	6.86				
Power supply	Ph/V/Hz	3/10000/50	3/10000/50	3/10000/50	3/10000/50	3/10000/50				
Power input	kW	950	1010	1072	1138	1195				
RLA/LRA	A	62.3	66.3	70.3	74.7	78.4				
Compressor	Type	-	Semi-hermetic centrifugal compressor							
	Starting mode	-	Direct start	Direct start	Direct start	Direct start	Direct start	Direct start	Direct start	Direct start
	Quantity	-	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Refrigerant charge volume	kg	1500	1600	1700	1800	1900				
Refrigeration oil	Category	-	No.68 synthetic fatty oil							
	Charge volume	L	125	125	125	125	125			
Evaporator	Type	-	Flooded type evaporator							
	Fouling factor	m ² ·c/kW	0.018	0.018	0.018	0.018	0.018			
	Water flow volume	L/s	267.5	286.7	305.8	325.0	343.9			
		GPM	4239.3	4543.6	4846.3	5150.6	5450.1			
	Pressure drop	kPa	125	125	125	125	125			
		ft.WG	41.0	41.0	41.0	41.0	41.0			
Connection pipe	-	DN350	DN350	DN400	DN400	DN400				
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			
	Water flow volume	L/s	334.4	358.3	382.2	406.1	430.0			
		GPM	5299.5	5678.3	6057.1	6435.8	6814.6			
	Pressure drop	kPa	125	125	125	125	125			
ft.WG		41.0	41.0	41.0	41.0	41.0				
Connection pipe	-	DN400	DN400	DN450	DN450	DN450				
Sound pressure level (Max.)	dB(A)	≤95	≤95	≤95	≤95	≤95				
Dimension	Outline(WxDxH)	mm	5350×2620×3100	5350×2620×3100	5350×2820×3100	5350×2820×3100	5350×2820×3100			
	Package(WxDxH)	mm	5800×2630×3260	5800×2630×3260	5800×2830×3260	5800×2830×3260	5800×2830×3260			
Net/Gross/Operating weight	kg	22500/22700/25950	23800/24000/27500	25500/25700/29450	26100/26300/30200	26500/26700/31000				
Loading quantity	40'GP/40'HQ	set	0/0	0/0	0/0	0/0	0/0			

Control system		Product series		Modular chiller			Screw chiller		Centrifugal chiller
				Split series	Integral series	D series	Air-cooled Screw chiller	Water-cooled screw chiller	
Chiller	Wired remote controller	Z16301		●					
		Z12301A			●				
	Display panel	Z26301C				●			
		Z2F3M*1					●		
	Touch screen*1	Z2G1DJ01*1						●	
		CM27-GM8/A1(M)							●
		CM18-GM8/A2(M)						○	
Long-distance monitoring software	Gree AC Eudemon 2009*3	FE30-00/A(M)				○	○	○	○
BMS accessories*2 (modbus)	Communication module	ME30-28/E(M)				○			
Other modules	Optoelectronic isolated converter	RS232-RS422V485				○	○	○	○
	Patch board	RS-422V485				○	○	○	○
	Optoelectronic isolated signal multiplier	Z103		●	●				

Note: ● means standard, ○ means optional.

*1 With BMS(modbus) function.

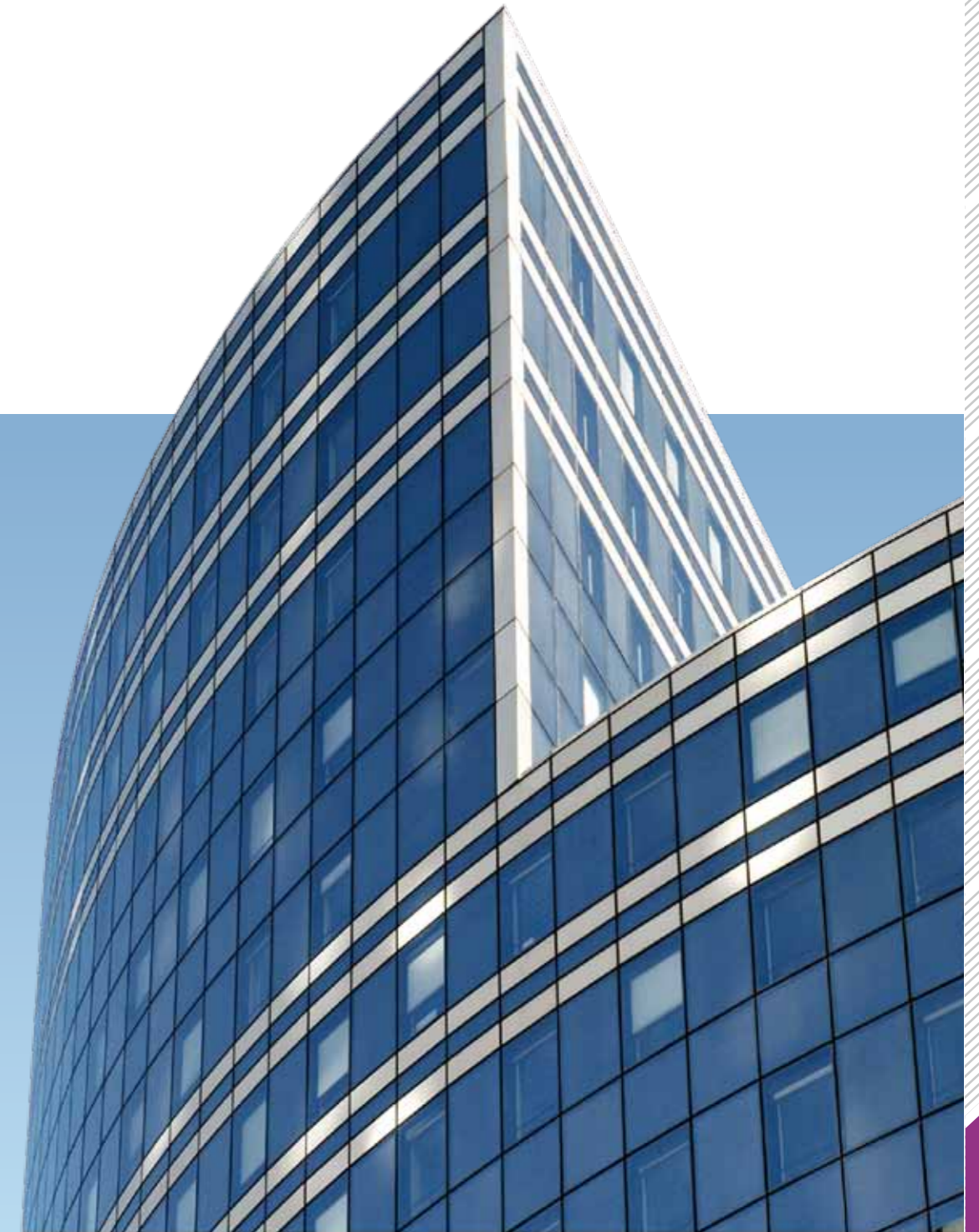
*2 BMS interface is equipped.

*3 For air-cooled scroll chiller, if long-distance monitoring software Gree Eudemon 2009 is selected, the communication module ME30-28/E(M) shall be selected also.

The selection shall refer to actual models.

TERMINAL

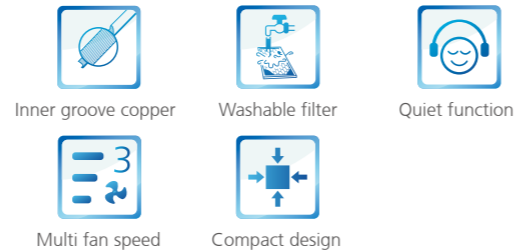
Fan Coil Unit
Air Handling Unit
Air Curtain
Diffuser



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	19.5	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
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	37	45	62	70	96	120	145
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	38
		Ft-WG	4	7	5.3	7.7	12.0	12.7	12.7
Sound pressure level	dB(A)	35	38	40	42	44	46	48	50
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 (inner groove)	inch(mm)	φ3/4(19.05)						
	Condensed water drain (outer groove)	inch(mm)	φ3/4(19.05)						
Loading quantity	40'GP/40'HQ	set	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-110PAO						
	Plenum with filter	—	HF31	HF32	HF33	HF34	HF34	HF36	HF36
	Plenum without filter	—	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
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	42	55	68	80	102	140	158
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	38
		Ft-WG	4	7	5.3	7.7	12.0	12.7	12.7
Sound pressure level	dB(A)	38	40	42	44	46	47	49	52
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 (inner groove)	inch(mm)	φ3/4(19.05)						
	Condensed water drain (outer groove)	inch(mm)	φ3/4(19.05)						
Loading quantity	40'GP/40'HQ	set	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-110PAO						
	Plenum with filter	—	HF31	HF32	HF33	HF34	HF34	HF36	HF36
	Plenum without filter	—	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
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	44	59	72	87	108	
Water system	Water flow volume	l/s	0.11	0.17	0.22	0.25	0.32	
	Pressure drop	kPa	10	15	25	30	40	
		Ft-WG	3.3	5	8.4	10	13.3	
Sound pressure level	dB(A)	38	40	42	44	46	47	
Dimension (WxDxH)	Outline	mm	881x510x245	1011x510x245	1131x510x245	1211x510x245	1371x510x245	
	Package	mm	900x560x275	1030x560x275	1150x560x275	1230x560x275	1390x560x275	
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 (inner groove)	inch(mm)	φ3/4(19.05)					
	Condensed water drain (outer groove)	inch(mm)	φ3/4(19.05)					
Loading quantity	40'GP/40'HQ	set	448/490	392/434	344/386	316/355	268/301	
Optionals	Wired remote controller	—	Luxury wired controller: WK-010PA-K; LCD controller: WK-110PAO					
	Plenum with filter	—	HF31	HF32	HF33	HF34	HF35	
	Plenum without filter	—	HF41	HF42	HF43	HF44	HF45	

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
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	174	212	380	475	535
Water system	Water flow volume	l/s	0.55	0.57	0.57	0.64	0.74
	Pressure drop	kPa	38	45	21.9	27.9	37.5
		Ft-WG	12.7	15	7.3	9.3	12.5
Sound pressure level	dB(A)	49	52	56	59	62	
Dimension (WxDxH)	Outline	mm	1921x510x245	1921x510x245	1671x595x354	1671x595x354	1921x595x354
	Package	mm	1940x560x275	1940x560x275	1750x650x380	1750x650x380	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 (inner groove)	inch(mm)	φ3/4(19.05)			φ1(25.4)	
	Condensed water drain (outer groove)	inch(mm)	φ3/4(19.05)			φ1(25.4)	
Loading quantity	40'GP/40'HQ	set	196/220	196/220	140/166	140/166	130/153
Optionals	Wired remote controller	—	Luxury wired controller: WK-010PA-K; LCD controller: WK-110PAO				
	Plenum with filter	—	HF37	HF37	HF28	HF28	HF29
	Plenum without filter	—	HF47	HF47	HF48	HF48	HF49

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

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
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	44	59	80	87	108
Water system	Water flow volume	l/s	0.11	0.19	0.24	0.31	0.43
	Pressure drop	kPa	15	7.8	9.7	23.3	35.5
		Ft-WG	5	2.6	3.2	7.8	11.8
Sound pressure level	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 (inner groove)	inch(mm)	φ1(25.4)				
	Condensed water drain (outer groove)	inch(mm)	φ1(25.4)				
Loading quantity	40'GP/40'HQ	set	448/490	392/434	344/386	316/355	268/301
Optionals	Wired remote controller	—	Luxury wired controller: WK-010PA-K; LCD controller: WK-110PAO				
	Plenum with filter	—	HF31	HF32	HF33	HF34	HF35
	Plenum without filter	—	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 (inner groove)	inch(mm) φ3/4(19.05)			φ1(25.4)		
	Condensed water drain (outer groove)	inch(mm) φ3/4(19.05)			φ1(25.4)		
Loading quantity		40' GP/40' HQ set 196/220	196/220	140/166	140/166	130/153	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

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 (inner groove)	inch(mm) φ3/4(19.05)					
	Condensed water drain (outer groove)	inch(mm) φ3/4(19.05)					
Loading quantity		40' GP/40' HQ set 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

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 (inner groove)	inch(mm) φ3/4(19.05)			φ1(25.4)		
	Condensed water drain (outer groove)	inch(mm) φ3/4(19.05)			φ1(25.4)		
Loading quantity		40' GP/40' HQ set 196/220	196/220	140/166	140/166	130/153	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

Fan Coil Unit

Cassette Type



Classical panel



New panel



Inner groove copper



Built-in drain pump



Washable filter



Anti-cold function



Quiet function



Multi fan speed



Compact design



Self-diagnosis

- 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 cleaning after power off to avoid mildew.
- Forced high speed fan operation under emergency condition.

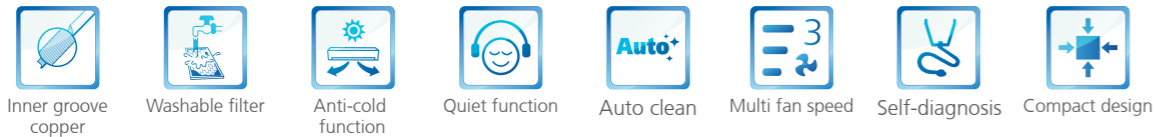


Nominal test condition (temperature)				
Item	DB (°C)	WB (°C)	Inlet (°C)	Outlet (°C)
Cooling	27	19	7	12
Heating	20	—	50	40

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 471/382/324	600/559/529	694/588/529	824/735/676	912/824/765	1059/853/794	1176/1000/853	
Capacity	Cooling/Heating	kW 4.50/5.60	5.00/6.50	6.00/7.80	8.00/9.00	8.70/10.00	9.50/11.00	13.00/14.60	
	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 80	110	80	120	130	160	210	
	Water flow volume	l/s 0.21	0.24	0.29	0.38	0.42	0.45	0.62	
Water system	Pressure drop	kPa 24	36	24	30	30	34	30	
		Ft-WG 7.872	11.871	7.872	9.840	9.840	11.221	9.840	
Sound pressure level		dB(A) 38	47	43	48	50	50	55	
Body	Dimension Outline	mm 840x840x190	840x840x190	840x840x240	840x840x240	840x840x240	840x840x320	840x840x320	
	(WxDxH) Package	mm 960x960x257	960x960x257	960x960x310	960x960x310	960x960x310	960x960x394	960x960x394	
	Net weight/Gross weight	kg 27/35	27/35	27/35	33/42	33/42	33/42	33/42	
Panel	Dimension Outline	mm 950x950x85	950x950x85	950x950x85	950x950x85	950x950x85	950x950x85	950x950x85	
	(WxDxH) Package	mm 1030x1035x118	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(mm) φ3/4(19.05)		φ3/4(19.05)		φ3/4(19.05)		φ3/4(19.05)	
	Condensed water drain	mm 33		33		33		33	
Loading quantity		40' GP/40' HQ set 132/148	132/148	132/148	112/120	112/120	112/120	112/120	
Standard controller		Wireless — YB1FA	YB1FA	YB1FA	YB1FA	YB1FA	YB1FA	YB1FA	
Optional controller		Wired — Z4E351B	Z4E351B	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 chilled water inlet temperature is lower than the setting value to avoid warm air under cooling condition.



Item	Nominal test condition (temperature)			
	DB (°C)	WB (°C)	Inlet (°C)	Outlet (°C)
Cooling	27	19	7	12
Heating	21	—	70	60

Model		FP-34ZD-K	FP-51ZD-K	FP-68ZD-K	FP-85ZD-K	FP-102ZD-K	FP-136ZD-K	FP-170ZD-K	FP-204ZD-K
Air flow volume (H/M/L)	m ³ /h	400/292/250	510/395/264	630/450/430	720/615/410	1000/765/510	1100/880/550	1800/1276/850	2040/1575/1051
	CFM	235/172/147	300/232/155	371/265/194	424/362/241	589/450/300	647/518/324	1059/751/500	1201/927/619
Capacity	Cooling	kW	2.0	2.8	3.6	4.2	5.4	6.3	8.9
	Heating	kW	6.7	7.6	8.5	9.5	12.6	14	19
Power system	Type	Ph/V/Hz	1/230/50	1/230/50	1/230/50	1/230/50	1/230/50	1/230/50	1/230/50
	Input	W	45	50	60	70	80	85	150
Water system	Water flow volume	l/s	0.13	0.14	0.16	0.20	0.27	0.40	0.44
	Pressure drop	kPa	12	4	10	20	36	38	43
		Ft-WG	3.94	1.31	3.28	6.56	11.81	12.46	14.10
Sound pressure level		dB(A)	40	44	45	49	47	50	55
	Water inlet & outlet	inch(mm)	φ3/4(19.05)	φ3/4(19.05)	φ3/4(19.05)	φ3/4(19.05)	φ3/4(19.05)	φ3/4(19.05)	φ3/4(19.05)
Connection pipe diameter	Condensed water drain	inch(mm)	φ3/5(15.24)	φ3/5(15.24)	φ3/5(15.24)	φ3/5(15.24)	φ3/5(15.24)	φ3/5(15.24)	φ3/5(15.24)
	Outline	mm	834x238x694	834x238x694	834x238x694	834x238x694	1300x188x600	1300x188x600	1590x238x695
Dimension (WxDxH)	Package	mm	963x333x845	963x333x845	963x333x845	963x333x845	1417x251x739	1417x251x739	1717x333x845
	Net weight/Gross weight	kg	26/33	26/33	27/34	27/34	34/40	34/40	48.5/57
Loading quantity	40'GP/40'HQ	set	224/267	224/267	224/267	220/267	220/244	220/244	111/117
	Standard	Wireless remote controller	—	YB1FA	YB1FA	YB1FA	YB1FA	YB1FA	YB1FA

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.



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

Without air release valve

Model			FP-34BA2/A-K	FP-51BA2/A-K	FP-51BWA2/A-K	FP-68BA2/A-K	FP-85BA2/A-K	FP-85BWA2/A-K
Air flow volume	High	CFM	212	324	265	400	500	382
	Medium	CFM	189	242	225	347	416	329
	Low	CFM	166	215	190	312	362	288
Capacity	Cooling	kW	2.10	2.70	1.50	3.60	4.20	2.40
	Heating	kW	3.15	4.05	2.25	5.40	6.30	3.60
Power system	Type	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
	Input	W	50	50	50	60	60	60
Water system	Water flow volume	l/s	0.11	0.13	0.08	0.17	0.19	0.11
	Pressure drop	kPa	13	24	37	44	45	60
		Ft-WG	4.3	7.9	12.2	14.5	14.8	19.7
Sound pressure level		dB(A)	35	40	42	43	48	50
	Water inlet & outlet	inch(mm)	φ1/2(12.7)	φ1/2(12.7)	φ1/2(12.7)	φ1/2(12.7)	φ1/2(12.7)	φ1/2(12.7)
Connection pipe size	Condensing water drain	mm	15.6	15.6	15.6	15.6	15.6	15.6
	Outline	mm	845x180x275	845x180x275	845x180x275	940x200x298	940x200x298	940x200x298
Dimension (WxDxH)	Package	mm	915x255x355	915x255x355	915x255x355	1010x285x380	1010x285x380	1010x285x380
	Net weight/Gross weight	kg	11/14	11/14	11/14	13/17	13/17	13/17
Loading quantity	40'GP	set	765	765	765	595	595	595
	40'HQ	set	850	850	850	671	671	671
Standard	Wireless remote controller	—	YB1FA	YB1FA	YB1FA	YB1FA	YB1FA	YB1FA
	Optional	Wired remote controller	—	Z4E351B	Z4E351B	Z4E351B	Z4E351B	Z4E351B

With air release valve

Model			FP-34BA2/D-K	FP-51BA2/D-K	FP-68BA2/D-K	FP-85BA2/D-K
Air flow volume	High	CFM	212	324	400/348/313	500
	Medium	CFM	189	243	348/313	417
	Low	CFM	166	216	313	363
ESP		Pa	0	0	0	0
Capacity	Cooling	kW	2	2.5	3.6	4.2
	Heating	kW	2.7	3.2	4.6	5.4
Power system	Type	Ph/V/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
	Input	W	50	50	60	66
Water system	Water flow volume	l/s	0.111	0.125	0.167	0.195
	Pressure drop	kPa	20	36	53	70
		Ft-WG	6.56	11.81	17.38	22.96
Sound pressure level		dB(A)	35	40	43	48
Connection pipe diameter	Water inlet & outlet	inch(mm)	φ1/2(12.7)	φ1/2(12.7)	φ1/2(12.7)	φ1/2(12.7)
	Condensed water drain	inch(mm)	φ5/8(15.6)	φ5/8(15.6)	φ5/8(15.6)	φ5/8(15.6)
Dimension (WxDxH)	Outline	mm	845X180X275	845X180X275	940X200X298	940X200X298
	Package	mm	915X255X355	915X255X355	1010X285X380	1010X285X380
Net weight/Gross weight		kg	11/14	11/14	13/17	13/17
Loading quantity	40'GP/40'HQ	set	765/850	765/850	595/671	595/671
Standard	Wireless remote controller	—	YB1FA(XFAN)	YB1FA(XFAN)	YB1FA(XFAN)	YB1FA(XFAN)

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.

B Series



E Series



Washable filter



Quiet function



Compact design



Easier maintainability

B Series

- 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.

E Series

- 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	—

B Series

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	m³/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	22.27/27.02	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	7/10	8/11	11/15	13/16
	Ft-WG	1.67/2.34	2.34	2.67	3.67	4.34
Esp.range(optional)	Pa	40-300	40-300	50-350	50-350	65-350
	Ft-WG	0.013-0.098	0.013-0.098	0.016-0.115	0.016-0.115	0.021-0.115
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	DN40	DN40	DN40	DN40	DN40
	Condensed water drain	DN25	DN25	DN25	DN25	DN25
Dimension (WxDxH)	Outline	mm 1100x1020x440	1100x1020x460	1400x1120x460	1600x1120x460	2000x1120x460
	Package	mm 1280x1130x595	1280x1230x615	1580x1230x615	1780x1230x615	2180x1230x615
Loading quantity	40'GP	set 54	54	44	44	18
	40'HQ	set 54	54	44	44	18

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	m³/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	16/21	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)	Pa	65-350	75-400	75-400	90-450
	Ft-WG	0.021-0.115	0.025-0.131	0.025-0.131	0.030-0.148
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	61	61	63
Connection pipe size	Water inlet & outlet	DN50	DN50	DN50	DN50
	Condensed water drain	DN25	DN25	DN25	DN25
Dimension	Outline	mm 2100x1320x560	2100x1320x560	2300x1320x560	2300x1320x660
	Package	mm 2280x1430x715	2280x1430x715	2480x1430x715	2480x1430x815
Loading quantity	40'GP	set 18	18	18	18
	40'HQ	set 18	18	18	18

E Series

Model		G-1.5WD(I)(Y)/E-M	G-1.5WDX(I)(Y)/E-M	G-2WD(I)(Y)/E-M	G-2WDX(I)(Y)/E-M	G-2.5WD(I)(Y)/E-M	G-2.5WDX(I)(Y)/E-M
Air flow volume	m³/h	1500	1500	2000	2000	2500	2500
	CFM	881	881	1175	1175	1469	1469
Capacity (4/6rows)	Cooling	9.8/11.96	20.6/25.8	12.5/14.26	27.5/33.5	15.6/19.2	33/41.6
	Heating	15.8/17.12	22.8/24.8	22.4/22.62	28.6/32.1	27.3/25.8	35.8/41.3
Water flow volume(4/6rows)	l/s	0.43/0.57	0.99/1.25	0.53/0.65	1.28/1.6	0.66/0.88	1.57/2.1
	GPM	1.89/2.51	4.36/5.50	2.33/2.86	5.63/7.04	2.9/3.87	6.97/9.24
Pressure drop(4/6rows)	kPa	6.5/5.25	30.3/30.4	9.2/7.85	40.5/22.3	16.3/15.40	25.4/35.6
	Ft-WG	2.17/1.75	10.12/10.15	3.07/2.62	13.53/7.45	5.44/5.14	8.48/11.89
Esp.range(optional)	Pa	40-285/50-280	40-285/50-280	40-285/55-295	40-285/55-295	90-255/95-270	90-255/95-270
	Ft-WG	0.013-0.093/0.016-0.092	0.013-0.093/0.016-0.092	0.013-0.093/0.018-0.097	0.013-0.093/0.018-0.097	0.030-0.084/0.031-0.089	0.030-0.084/0.031-0.089
Net weight(4/6rows)	kg	98/104	98/104	98/104	98/104	107/115	107/115
Gross weight(4/6rows)	kg	127/133	127/133	127/133	127/133	137/145	137/145
Sound pressure level	dB(A)	≤53	≤53	≤55	≤55	≤56	≤56
Connection pipe size	Water inlet & outlet	DN25	DN25	DN25	DN25	DN25	DN25
	Condensed water drain	DN25	DN25	DN25	DN25	DN25	DN25
Dimension (WxDxH)	Outline	mm 1070x1050x478	1070x1050x478	1070x1050x478	1070x1050x478	2570x1050x704	2570x1050x704
	Package	mm 1370x1130x535	1370x1130x535	1370x1130x535	1370x1130x535	2770x1130x789	2770x1130x789
Loading quantity	40'GP	set 32	32	32	32	28	28
	40'HQ	set 32	32	32	32	28	28

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.

E Series

Model		G-3WD(I)(Y)/E-M	G-3WDX(I)(Y)/E-M	G-4WD(I)(Y)/E-M	G-4WDX(I)(Y)/E-M	G-5WD(I)(Y)/E-M	G-5WDX(I)(Y)/E-M
Air flow volume	m³/h	3000	3000	4000	4000	5000	5000
	CFM	1762	1762	2350	2350	2937	2937
Capacity (4/6rows)	Cooling	18.7/22.13	40.7/50.2	24.9/30.18	55.3/66.6	31/35.4	66.3/82.4
	Heating	33.5/33	42.5/49.8	43.2/44.2	55.9/64.3	56.1/53.1	68.9/81.1
Water flow volume(4/6rows)	l/s	0.79/1.03	1.9/2.4	1.1/1.44	2.63/3.2	1.3/1.71	3.17/4.0
	GPM	3.48/4.53	8.36/10.56	4.84/6.34	11.57/14.08	5.72/7.52	13.95/17.60
Pressure drop(4/6rows)	kPa	26.2/19.92	46.6/42.5	20.1/24.60	30.8/50.8	35.3/34.00	56.9/35.6
	Ft-WG	8.75/6.65	15.56/14.20	6.71/8.22	10.29/16.97	11.79/11.36	19/11.89
Esp.range(optional)	Pa	75-400/90-345	75-400/90-345	60-400/120-400	60-400/120-400	95-400/135-390	95-400/135-390
	Ft-WG	0.025-0.131/0.030-0.113	0.025-0.131/0.030-0.113	0.020-0.131/0.039-0.131	0.020-0.131/0.039-0.131	0.031-0.131/0.044-0.128	0.031-0.131/0.044-0.128
Net weight(4/6rows)	kg	110/119	110/119	134/144	134/144	145/158	145/158
Gross weight(4/6rows)	kg	139/148	139/148	165/175	165/175	175/188	175/188
Sound pressure level	dB(A)	≤58	≤58	≤59	≤59	≤60	≤60
Connection pipe size	Water inlet & outlet	DN25	DN25	DN32	DN32	DN32	DN32
	Condensed water drain	DN25	DN25	DN25	DN25	DN25	DN25
Dimension (WxDxH)	Outline	mm 1070x1050x651	1070x1050x651	1270x1050x651	1270x1050x651	1450x1050x651	1450x1050x651
	Package	mm 1270x1130x690	1270x1130x690	1470x1130x710	1470x1130x710	1650x1130x710	1650x1130x710
Loading quantity	40'GP	set 36	36	32	32	28	28
	40'HQ	set 36	36	32	32	28	28

Model		G-6WD(I)(Y)/E-M	G-6WDX(I)(Y)/E-M	G-7WD(I)(Y)/E-M	G-7WDX(I)(Y)/E-M	G-8WD(I)(Y)/E-M	G-8WDX(I)(Y)/E-M
Air flow volume	m³/h	6000	6000	7000	7000	8000	8000
	CFM	3525	3525	4112	4112	4699	4699
Capacity (4/6rows)	Cooling	37.4/44.1	79.6/98.8	43.6/50.8	92.9/112.3	49.8/62.5	106.3/129.7
	Heating	66.8/63.5	80.7/96.5	78.8/72.5	89.5/113.6	90.8/88.7	108.8/124.1
Water flow volume(4/6rows)	l/s	1.6/2.1	3.8/4.7	1.83/2.43	4.43/5.4	2.1/2.85	5.1/6.1
	GPM	7.04/9.24	16.72/20.68	8.05/10.69	19.49/23.76	9.24/12.54	22.44/26.84
Pressure drop(4/6rows)	kPa	38.9/34.10	45.8/29.4	46.7/17.30	50.5/31.5	53.5/20.80	55.1/40.4
	Ft-WG	12.99/11.39	15.30/9.82	15.60/5.78	16.87/10.52	17.87/6.95	18.40/13.49
Esp.range(optional)	Pa	75-400/135-400	75-400/135-400	75-360/120-400	75-360/120-400	90-370/140-370	90-370/140-370
	Ft-WG	0.025-0.131/0.044-0.131	0.025-0.131/0.044-0.131	0.025-0.118/0.039-0.131	0.025-0.118/0.039-0.131	0.030-0.121/0.046-0.121	0.030-0.121/0.046-0.121
Net weight(4/6rows)	kg	163/179	163/179	179/197	179/197	209/229	209/229
Gross weight(4/6rows)	kg	190/206	190/206	210/228	210/228	236/256	236/256
Sound pressure level	dB(A)	≤60	≤60	≤61	≤61	≤63	≤63
Connection pipe size	Water inlet & outlet	DN40	DN40	DN40	DN40	DN40	DN40
	Condensed water drain	DN25	DN25	DN25	DN25	DN25	DN25
Dimension (WxDxH)	Outline	mm 1500x1050x734	1500x1050x734	1670x1050x734	1670x1050x734	1870x1050x734	1870x1050x734
	Package	mm 1700x1130x812	1700x1130x812	1870x1130x812	1870x1130x812	2070x1130x812	2070x1130x812
Loading quantity	40'GP	set 24	24	24	24	20	20
	40'HQ	set 24	24	24	24	20	20

Model		G-9WD(I)(Y)/E-M	G-9WDX(I)(Y)/E-M	G-10WD(I)(Y)/E-M	G-10WDX(I)(Y)/E-M	G-12WD(I)(Y)/E-M	G-12WDX(I)(Y)/E-M
Air flow volume	m³/h	9000	9000	10000	10000	12000	12000
	CFM	5287	5287	5874	5874	7049	7049
Capacity (4/6rows)	Cooling	56/67.8	119.5/148.9	62.4/80.8	134.9/165.2	74.8/95.9	159.3/198.8
	Heating	96.3/99.8	121.4/142.6	115.8/110.5	138.6/164.5	135.6/137.6	160.9/197.1
Water flow volume(4/6rows)	l/s	2.43/3.10	5.77/7.3	2.6/3.88	6.4/8.4	3.2/4.65	7.6/9.5
	GPM	10.56/13.64	25.08/32.12	11.44/17.07	28.16/36.96	14.08/20.46	33.44/41.80
Pressure drop(4/6rows)	kPa	34/14.30	45.2/42.5	48.9/16.50	47.4/46.8	37.3/25.60	50.8/48.7
	Ft-WG	11.36/4.78	15.10/14.20	16.33/5.51	15.83/15.63	12.46/8.55	16.97/16.27
Esp.range(optional)	Pa	95-450	95-450	130-450	130-450	125-500	125-500
	Ft-WG	0.031-0.148	0.031-0.148	0.043-0.148	0.043-0.148	0.041-0.164	0.041-0.164
Net weight(4/6rows)	kg	259/271	259/271	271/284	271/284	318/333	318/333
Gross weight(4/6rows)	kg	315/327	315/327	321/334	321/334	371/386	371/386
Sound pressure level	dB(A)	≤64	≤64	≤65	≤65	≤66	≤66
Connection pipe size	Water inlet & outlet	DN50	DN50	DN50	DN50	DN50	DN50
	Condensed water drain	DN25	DN25	DN25	DN25	DN25	DN25
Dimension (WxDxH)	Outline	mm 2050x1050x690	2050x1050x690	2220x1050x704	2220x1050x704	2570x1050x704	2570x1050x704
	Package	mm 2250x1130x789	2250x1130x789	2420x1130x789	2420x1130x789	2770x1130x789	2770x1130x789
Loading quantity	40'GP	set 20	20	16	16	16	16
	40'HQ	set 20	20	16	16	16	16

TERMINAL

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
	Heating	21	—	60
Fresh air type	Cooling	35	28	7
	Heating	7	—	60

Model		G-3(I)(Y)-M	G-3X(I)(Y)-M	G-4(I)(Y)-M	G-4(I)(Y)-M	G-5(I)(Y)-M	G-5X(I)(Y)-M	G-6(I)(Y)-M
Air flow volume	m³/h	3000	3000	4000	4000	5000	5000	6000
	CFM	1762	1762	2350	2350	2937	2937	3525
Capacity (4/6rows)	Cooling	18.2/26.5	43.8/53.5	23.5/35.1	58.5/73.1	32.2/44.1	73.1/91.1	36.4/52.5
	Heating	28.2/35.3	47.3/57.2	40.2/46.5	63.2/78.2	50.2/58.4	78.5/97.5	58.2/68.9
Water flow volume(4/6rows)	l/s	0.87/1.27	2.1/2.58	1.13/1.68	2.8/3.49	1.54/2.1	3.49/4.35	1.74/2.51
	GPM	3.83/5.59	9.24/11.35	4.97/7.39	12.32/15.36	6.78/9.24	15.36/19.14	7.66/11.04
Pressure drop(4/6rows)	kPa	9.15/12.9	17.4/23.5	11.9/14.6	20.1/30.5	16/15	12.2/28.8	21.2/16.1
	Ft-WG	3.06/4.31	5.81/7.85	3.97/4.88	6.71/10.19	5.34/5.01	4.07/9.62	7.08/5.35
Esp.range (optional)	Pa	50-300	50-300	65-350	65-350	65-350	65-350	75-350
	Ft-WG	0.016-0.098	0.016-0.098	0.021-0.115	0.021-0.115	0.021-0.115	0.021-0.115	0.025-0.115
Net weight(4/6rows)	kg	215/240	215/240	260/295	260/295	305/330	305/330	340/375
Gross weight(4/6rows)	kg	250/275	250/275	295/335	295/335	345/360	345/360	420/455
Sound pressure level	dB(A)	≤58	≤58	≤59	≤59	≤60	≤60	≤60
Connection pipe size	Water inlet / outlet	—	DN50/DN40	DN50/DN40	DN50/DN40	DN50/DN40	DN50/DN40	DN65/DN65
	Condensed water drain	—	DN25	DN25	DN25	DN25	DN25	DN25
Dimension	Outline	mm	1150×730×1300	1150×730×1300	1150×730×1400	1150×730×1400	1350×830×1400	1350×830×1600
	Package	mm	1260×830×1420	1260×830×1420	1260×830×152	1260×830×152	1450×950×155	1450×950×175
Loading quantity	40'GP	set	22	22	22	22	16	14
	40'HQ	set	22	22	22	22	16	14

Model		G-6(I)(Y)-M	G-8(I)(Y)-M	G-8X(I)(Y)-M	G-10(I)(Y)-M	G-10X(I)(Y)-M	G-12(I)(Y)-M	G-12X(I)(Y)-M
Air flow volume	m³/h	6000	8000	8000	10000	10000	12000	12000
	CFM	3525	4699	4699	5874	5874	7049	7049
Capacity (4/6rows)	Cooling	88.2/105.5	50.5/66.1	116.5/151.6	61.1/84.1	145.8/182.3	72.1/96.5	172.6/215.5
	Heating	95.2/112.8	75.8/88.8	125.8/162.2	92.3/112.3	157.4/195.1	112.8/133.5	184.4/228.4
Water flow volume(4/6rows)	l/s	4.21/5.04	2.32/3.16	5.59/6.98	2.87/4.02	6.98/8.7	3.44/4.61	8.27/10.37
	GPM	18.52/22.18	10.21/13.90	24.60/30.71	12.63/17.69	30.71/38.28	15.14/20.28	36.39/45.63
Pressure drop(4/6rows)	kPa	14.1/25.8	30.9/20.8	18.4/29.8	57.1/23.2	24/35.2	12/25.6	34.6/41.2
	Ft-WG	4.71/8.62	10.32/6.95	6.15/9.95	19.07/7.75	8.02/11.76	4.01/8.55	11.56/13.76
Esp.range (optional)	Pa	75-350	90-450	90-450	90-500	90-500	100-500	100-500
	Ft-WG	0.025-0.115	0.030-0.148	0.030-0.148	0.030-0.164	0.030-0.164	0.033-0.164	0.033-0.164
Net weight(4/6rows)	kg	340/375	390/435	390/435	450/485	450/485	503/535	503/535
Gross weight(4/6rows)	kg	420/455	430/475	430/475	475/535	475/535	563/585	563/585
Sound pressure level	dB(A)	≤60	≤63	≤63	≤65	≤65	≤66	≤66
Connection pipe size	Water inlet & outlet	—	DN65/DN65	DN65/DN65	DN50/DN65	DN50/DN65	DN65/DN65	DN65/DN65
	Condensed water drain	—	DN25	DN32	DN32	DN32	DN32	DN32
Dimension	Outline	mm	1350×830×1600	1750×830×1800	1750×830×1800	1950×830×1800	1950×830×1800	1950×830×1900
	Package	mm	1450×950×1750	1850×950×1950	1850×950×1950	2050×950×1950	2050×950×1950	2150×950×2050
Loading quantity	40'GP	set	14	12	12	12	12	12
	40'HQ	set	14	12	12	12	12	12

Model		G-14(I)(Y)-M	G-14X(I)(Y)-M	G-16(I)(Y)-M	G-16X(I)(Y)-M	G-18(I)(Y)-M	G-18X(I)(Y)-M	G-20(I)(Y)-M
Air flow volume	m³/h	14000	14000	16000	16000	18000	18000	20000
	CFM	8224	8224	9399	9399	10574	10574	11748
Capacity (4/6rows)	Cooling	87.8/111.6	197.6/240.7	95.1/123	212.1/252.1	118.2/143.8	239.6/291.1	124.5/165
	Heating	129.5/155.4	214.6/246.8	143.3/173.2	245.3/282.1	161.5/198.2	276.0/317.4	178.4/224
Water flow volume(4/6rows)	l/s	3.92/5.34	9.46/12.09	4.35/5.88	10.13/12.66	5.07/6.87	11.45/14.62	5.81/7.89
	GPM	17.25/23.50	41.62/53.20	19.14/25.87	44.57/55.70	22.31/30.23	50.38/64.33	25.56/34.72
Pressure drop(4/6rows)	kPa	22.05/28.01	22.05/33.8	23/32.1	26.6/40.2	25/35.2	25/38.2	25/38.5
	Ft-WG	7.36/9.36	7.36/11.29	7.68/10.72	8.88/13.43	8.35/11.76	8.35/12.76	8.35/12.86
Esp.range (optional)	Pa	100-550	100-550	120-600	120-600	120-600	120-600	140-600
	Ft-WG	0.033-0.180	0.033-0.180	0.039-0.197	0.039-0.197	0.039-0.197	0.039-0.197	0.046-0.197
Net weight(4/6rows)	kg	545/580	545/580	745/780	745/780	790/840	815/840	815/860
Gross weight(4/6rows)	kg	590/630	590/630	820/850	820/850	850/900	890/900	890/930
Sound pressure level	dB(A)	≤67	≤67	≤68	≤68	≤69	≤69	≤69
Connection pipe size	Water inlet & outlet	—	DN65/DN65	DN65/DN65	DN65/DN65	DN65/DN65	DN65/DN65	DN80/DN80
	Condensed water drain	—	DN32	DN32	DN32	DN32	DN32	DN32
Dimension	Outline	mm	2250×930×2100	2250×930×2100	2250×930×2100	2250×930×2100	2250×930×2100	1950×1440×1930
	Package	mm	2450×1050×2250	2450×1050×2250	2380×1050×2450	2380×1050×2450	2380×1050×2450	2380×1050×2450
Loading quantity	40'GP	set	8	8	8	8	8	7
	40'HQ	set	8	8	8	8	8	7

Model		G-20X(I)(Y)-M	G-22(I)(Y)-M	G-22X(I)(Y)-M	G-25(I)(Y)-M	G-25X(I)(Y)-M	G-30(I)(Y)-M	G-30X(I)(Y)-M
Air flow volume	m³/h	20000	22000	22000	25000	25000	30000	30000
	CFM	11748	12923	12923	14686	14686	17623	17623
Capacity (4/6rows)	Cooling	290.8/320.5	143.5/179	316.4/370.3	158.3/195	344.5/407.7	200.8/233	414.5/492.4
	Heating	306.6/352.6	207.2/245.6	337.3/387.9	226.3/278.5	383.3/440.8	271.4/335	460.0/529.0
Water flow volume(4/6rows)	l/s	13.9/16.1	6.38/8.56	15.12/18.65	7.28/9.32	16.46/20.48	8.39/11.14	19.98/24.73
	GPM	61.16/70.84	28.07/37.66	66.53/82.06	32.03/41.01	72.42/90.11	36.92/49.02	87.91/108.81
Pressure drop(4/6rows)	kPa	25/36.5	20/32.1	20/32.1	29/36	29/38	23/38	23/38
	Ft-WG	8.35/12.19	6.68/10.72	6.68/10.72	9.69/12.02	9.69/12.69	7.68/12.69	7.68/12.69
Esp.range (optional)	Pa	140-600	170-570	170-570	170-550	170-550	220-650	220-650
	Ft-WG	0.046-0.197	0.056-0.187	0.056-0.187	0.056-0.180	0.056-0.180	0.072-0.213	0.072-0.213
Net weight(4/6rows)	kg	815/860	865/915	865/915	910/960	910/960	1015/1250	1015/1250
Gross weight(4/6rows)	kg	890/930	905/980	905/980	950/1000	950/1000	1075/1310	1075/1310
Sound pressure level	dB(A)	≤69	≤63	≤63	≤65	≤65	≤66	≤66
Connection pipe size	Water inlet & outlet	—	DN80/DN80	DN80/DN80	DN80/DN80	DN80/DN80	DN80/DN80	DN80/DN80
	Condensed water drain	—	DN32	DN32	DN32	DN32	DN32	DN32
Dimension	Outline	mm	1950×1440×1930	2250×1640×2030	2250×1640×2000	2250×1640×2000	2250×1640×2000	2250×1640×2030
	Package	mm	2040×1500×2060	2340×1700×2160	2340×1700×2160	2340×1700×2160	2340×1700×2160	2450×1750×2250
Loading quantity	40'GP	set	7	5	5	5	4	4
	40'HQ	set	7	5	5	5	4	4

Note:
1. The specification is based 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.

TERMINAL

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 and lower heat conductivity factor.
- **Modular design:** All the function sections of the AHU are of modular design, which 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	1128	1269	1410	1552	1693	6-14	17-28	400-1200
			CFM	663	746	829	911	994			
0806	850	650	m³/h	1975	2221	2468	2715	2962	10-24	29-50	400-1200
			CFM	1160	1305	1450	1595	1740			
0808	850	850	m³/h	2821	3174	3526	3879	4231	15-35	41-71	400-1200
			CFM	1657	1864	2071	2278	2486			
1008	1050	850	m³/h	3735	4202	4669	5136	5603	20-44	53-95	400-1200
			CFM	2194	2468	2743	3017	3291			
1208	1250	850	m³/h	4650	5231	5812	6393	6975	25-56	66-116	400-1200
			CFM	2731	3073	3414	3756	4097			
1608	1650	850	m³/h	6479	7288	8098	8908	9718	36-81	94-162	400-1200
			CFM	3806	4281	4757	5233	5708			
1010	1050	1050	m³/h	4856	5463	6070	6677	7284	25-57	69-124	400-1500
			CFM	2852	3209	3566	3922	4279			
1210	1250	1050	m³/h	6045	6800	7556	8311	9067	32-72	86-151	400-1500
			CFM	3551	3995	4438	4882	5326			
1610	1650	1050	m³/h	8351	9395	10438	11482	12526	46-104	122-209	400-1500
			CFM	4905	5519	6132	6745	7358			
2010	2050	1050	m³/h	10728	12069	13410	14751	16092	62-127	147-254	400-1500
			CFM	6302	7090	7877	8665	9453			
1212	1250	1250	m³/h	7811	8788	9764	10740	11717	41-93	111-195	400-1500
			CFM	4588	5162	5736	6309	6883			
1612	1650	1250	m³/h	10920	12285	13650	15015	16380	60-136	159-274	400-1500
			CFM	6415	7217	8018	8820	9622			
2012	2050	1250	m³/h	13905	15643	17381	19119	20857	80-164	191-329	400-1500
			CFM	8168	9189	10210	11231	12252			
1616	1650	1650	m³/h	14606	16432	18258	20083	21909	81-182	213-366	400-1500
			CFM	8580	9652	10725	11797	12870			
1816	1850	1650	m³/h	16709	18798	20887	22975	25064	99-210	222-422	400-1500
			CFM	9815	11042	12269	13496	14723			
2016	2050	1650	m³/h	18812	21164	23516	25867	28219	114-222	258-445	400-1500
			CFM	11051	12432	13813	15195	16576			
2020	2050	2050	m³/h	23107	25995	28884	31772	34660	139-273	317-547	400-2000
			CFM	13573	15270	16967	18664	20360			

Optional 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 (WxDxH)	Outline	mm	900x215x193
	Package	mm	1015x270x256
Net weight /gross weight		kg	16/18
			20/22
Loading quantity	40'GP	set	848
	40'HQ	set	954
Setting height	m	2.3~3	2.3~3

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.



Adjustable grille



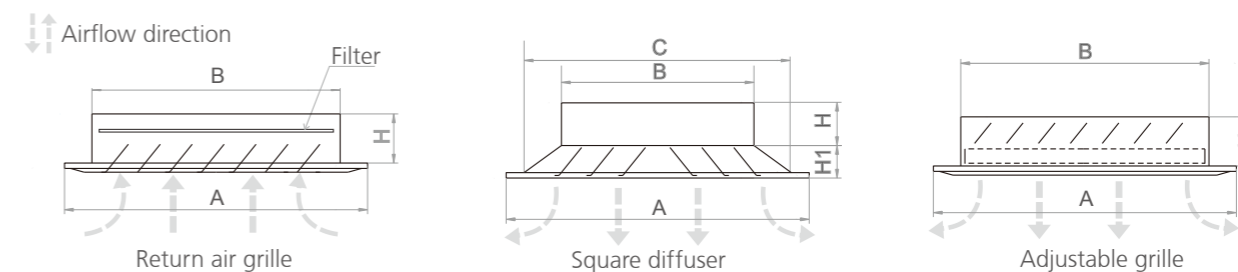
Return air grille



Square diffuser



- **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

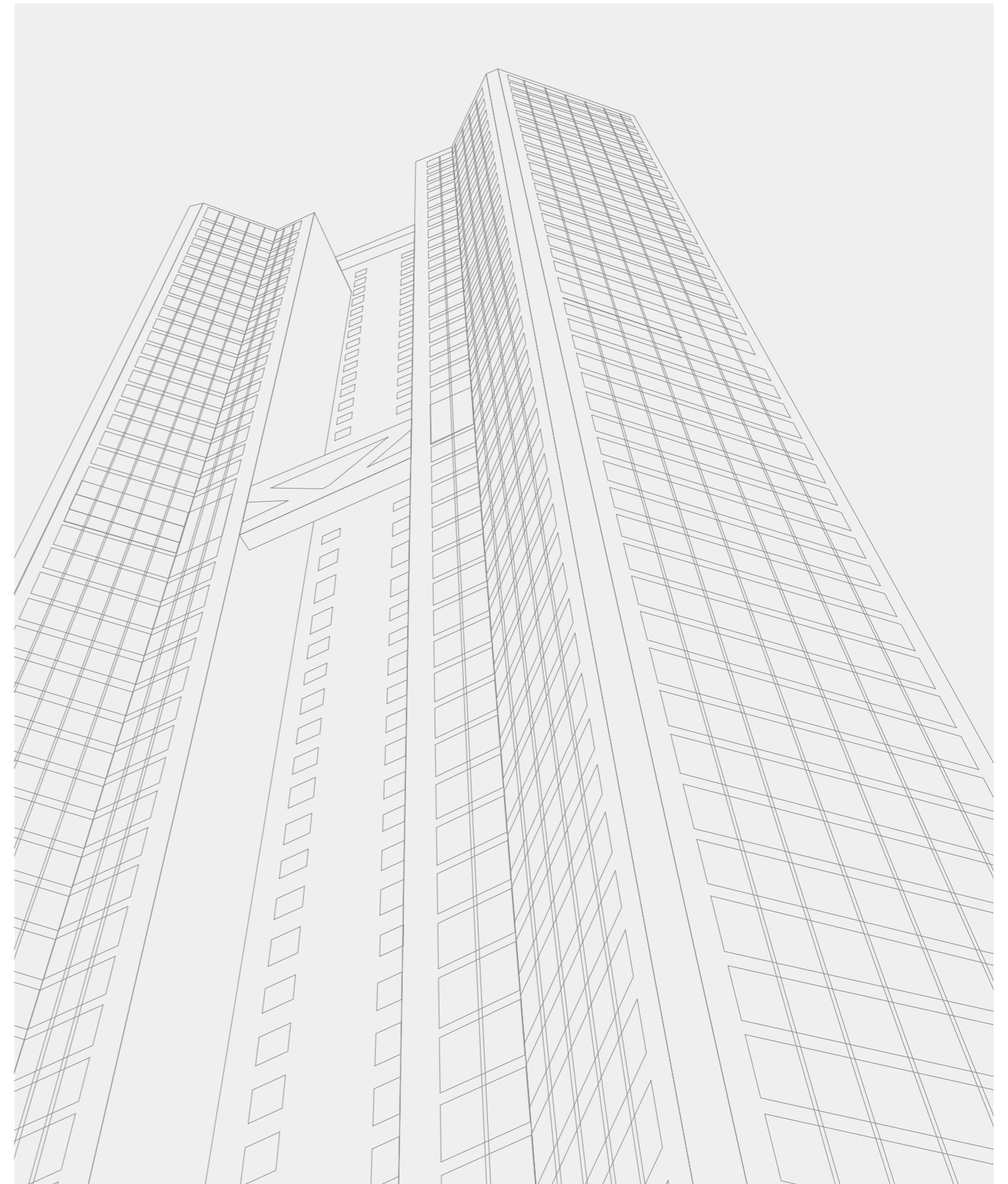
Return air grille			
Model	Throat B	A	H
FKDB45	375x375	448x448	60
FKDB60	517x517	598x598	60
FKDB6325	630x253	685x308	28
FKDB10025	1005x260	1034x290	30

Square diffuser					
Model	Throat B	A	C	H	H1
FKFS45	270x270	448x448	Φ365	25	25
FKFS60	368x368	598x598	Φ485	27	34

Control System Lineup

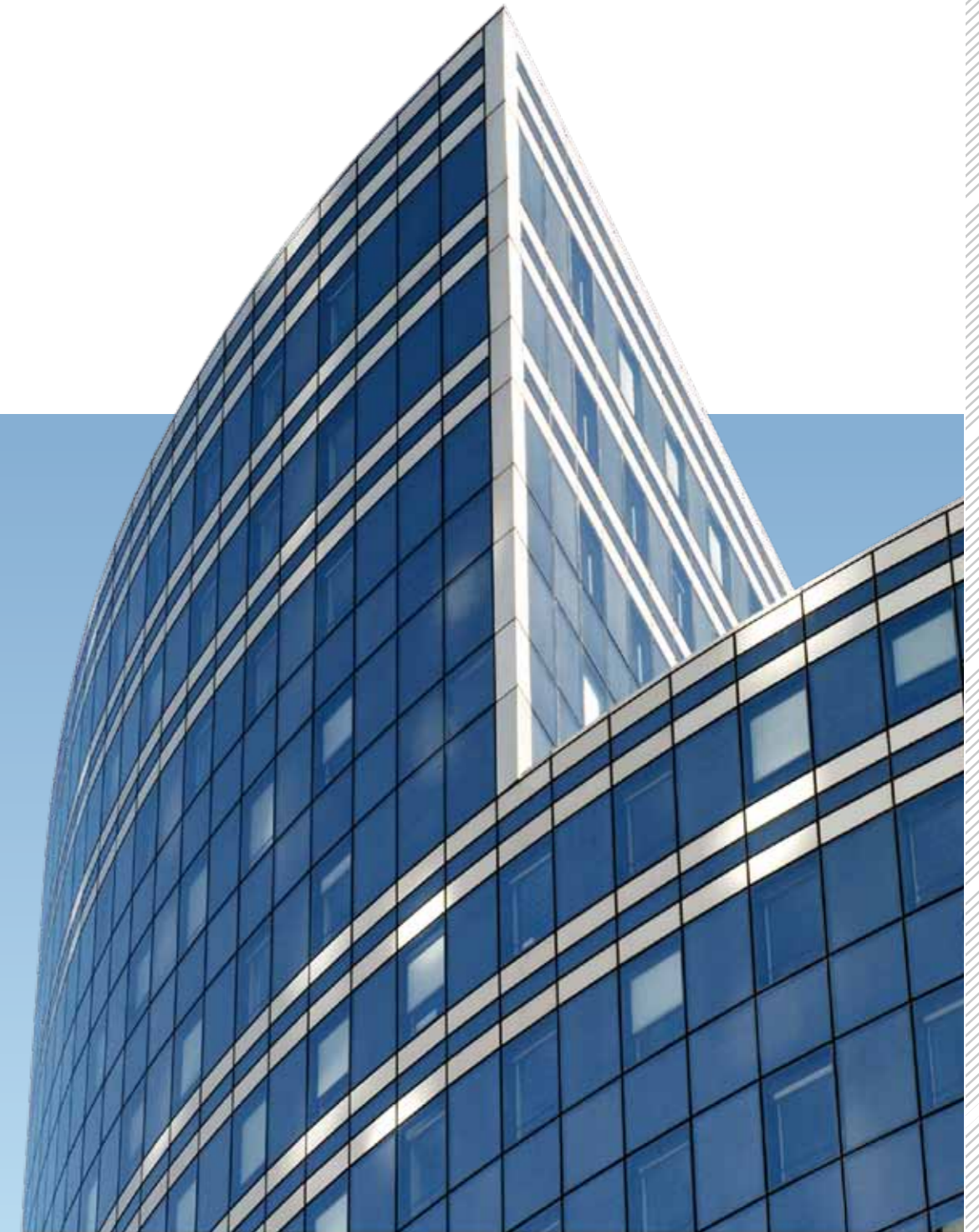
Control system		Product series		Concealed ceiling type	Cassette type	Floor ceiling type	Wall mounted type	Air curtain
								
Wireless remote controller	YB1FA			●	●	●		
	ZY611							●
Wired controller	Z4E351B			○	○	○		
Mechanical FCU controller	Z54352A1			○				
Digital thermostat	Luxury WK-010PA-K			○				
	WK-110PA0			○				
Long-distance monitoring software	Gree AC Eudemon 2009*1	FE30-00/A(M)			○	○	○	
BMS accessories	Communication module (modbus)	ME30-17/E2(M)			○	○	○	
		DQ34*2		○		○		
		ZJ0212				○		
Other modules	Optoelectronic isolated converter	RS232-RS422V485			○	○	○	
	Optoelectronic isolated signal multiplier	RS-422V485			○	○	○	

Note:
 ● means standard, ○ means optional.
 *1 If long-distance monitoring software Gree Eudemon 2009 is selected, the communication module ME30-17/E2(M) shall be selected also. The selection shall refer to actual models.
 *2 DQ34 including wired remote controller Z4E351B and Communication module ZJ0212, so if DQ34 is selected, the wired remote controller Z54352A1 is not necessary to be selected. ME30-17/E2(M) is not necessary also.



SPECIALIZED AC

Marine Air Conditioner
Elevator Air Conditioner
Close Control Air Conditioner



SPECIALIZED AC

Marine Air Conditioner



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



Display Panel Z5A35

- 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	1400	2350	3300	3700
		BTU/h	4800	8000	11600	12600
	Heating	W	1700	2550	3500	3800
		BTU/h	5800	8700	11900	13000
EER/COP		W/W	2.69/3.40	2.94/3.23	3.30/3.37	3.52/3.17
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	0.52	0.80	1.00	1.05
		BTU/h	6824	10236	13000	13600
	Heating	kW	0.50	0.79	1.04	1.20
		BTU/h	1700	2550	3500	3800
Input current	Cooling	A	2.9	4.2	5.1	5.7
		BTU/h	5800	8700	11900	13000
	Heating	A	2.8	4.2	5.3	5.7
		BTU/h	5800	8700	11900	13000
Sound pressure level		dB(A)	58	58	58	58
Refrigerant charge volume		kg	0.35	0.44	0.55	0.69
Air flow volume (H/M/L)		m ³ /h	320	470	466	600
		CFM	190	276	275	350
Dimension (WxDxH)	Outline	mm	309x440x324	411x457x324	409x458x370	478x488x365
		Package	588x539x403	636x594x403	636x549x437	706x635x432
Net weight/Gross weight		kg	26/31	28/34	35/41	41/46
Fan motor supply air outlet diameter		inch	3.6	3.6	4.7	4.7
Condenser pipe diameter		inch	0.87	0.63	0.87	0.63
Loading quantity	40'GP	set	430	300	300	270
		40'HQ	set	516	360	360

Elevator Air Conditioner



Elevator air conditioner is specially designed for temperature control of elevators in hotel, office building and residential building. The unit is with beautiful appearance, compact structure, complete functions and reliable performance, which can satisfy different customers' requirements.



2~3 kW



YB1FA(XFAN)

- Inner groove copper
- Washable filter
- Quality motor
- High efficiency
- Energy saving function
- Fresh air supply ventilation
- Low voltage startup
- Wide voltage startup
- Memory function
- Compact design
- Easier maintainability

- Intelligent control according to the operation status of elevator.
- Compact structure.
- Innovative malfunction feedback function.
- With fresh air supply.
- With clock timer function.
- Adopt dual-side noise-silencing hose to decrease noise efficiently.
- Outer signal wire adopts AMP terminal connection, convenient and reliable.

Cooling operation temperature range(DB°C)	
22~43	

Model			GDT25	GDT35
Capacity	Heating	W	2000	3000
		BTU/h	6824	10236
EER/COP		W/W	2	2.5
Power supply		Ph/V/Hz	1/220/50	1/220/50
Power input	Cooling	kW	1	1.2
		BTU/h	3400	4100
Input current	Cooling	A	4.6	5.7
		BTU/h	6824	10236
Sound pressure level		dB (A)	55	55
Refrigerant charge volume		kg	0.55	0.85
Air flow volume (H/M/L)		m ³ /h	360	450
		CFM	212	265
Dimension (WxDxH)	Outline	mm	350x600x400	450x700x450
		Package	483x783x495	572x890x542
Net weight/Gross weight		kg	46/52	59/66
Fan motor supply air outlet diameter		inch(mm)	7.244(184)	7.244(184)
Condenser pipe diameter		inch(mm)	0.276(7)	0.276(7)
Loading quantity	40'GP/40'HQ	set	276/345	208/208

SPECIALIZED AC

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.



Long-distance monitoring software (optional) FE30-00/A(M)



Energy saving function



Self-diagnosis



Modular structure



Easier maintainability



Compact design



Long-distance monitoring

- 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-E		JKFD7QS/Na-E		
	Modular		JKFD5DCM/Na-E	JKFD5DQSM/Na-E	JKFD7DCM/Na-E	JKFD7DQSM/Na-E	JKFD7CM/Na-E	JKFD7QSM/Na-E							
Power supply		PhV/Hz	1/220/50		1/220/50		1/220/50		1/220/50		1/220/50		3/380/50		
Cooling capacity (total/sensible)	22°C/50%	kW	5.0/4.5		6.9/5.9		6.8/5.8		6.8/5.8		6.8/5.8		6.8/5.8		
	24°C/17°C	kW	5.3/4.8		7.2/6.5		7.2/6.5		7.2/6.5		7.2/6.5		7.2/6.5		
	24°C/45%	kW	5.2/4.7		7.0/6.4		7.0/6.3		7.0/6.3		7.0/6.3		7.0/6.3		
	26°C/50%	kW	5.5/5.0		7.3/6.5		7.3/6.6		7.3/6.6		7.3/6.6		7.3/6.6		
Rated input	Cooling/Heating	kW	2.1/3.2		2.8/3.6		2.5/3.4		2.5/3.4		2.5/3.4		2.5/3.4		
Rated current	Cooling/Heating	A	9.55/14.55		12.73/16.36		3.76/5.15		3.76/5.15		3.76/5.15		3.76/5.15		
Heating capacity		kW	3		3		3		3		3		3		
Humidifying	Rated capacity	kg/h	2		2		2		2		2		2		
	Power input	kW	1.5		1.5		1.5		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		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%		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-E(I)		JKFD7QS/Na-E(I)		
		Modular	JKFD5DCM/Na-E(I)		JKFD5DQSM/Na-E(I)		JKFD7DCM/Na-E(I)		JKFD7DQSM/Na-E(I)		JKFD7CM/Na-E(I)		JKFD7QSM/Na-E(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	Normal	JKFD5/Na-E(O)		JKFD5/Na-E(O)		JKFD7/Na-E(O)		JKFD7/Na-E(O)		JKFD7/Na-E(O)		JKFD7/Na-E(O)		
		Modular	JKFD5DCM/Na-E(O)		JKFD5DQSM/Na-E(O)		JKFD7DCM/Na-E(O)		JKFD7DQSM/Na-E(O)		JKFD7CM/Na-E(O)		JKFD7QSM/Na-E(O)		
	Quantity	Set	1		1		1		1		1		1		
	Air flow volume	m³/h	6200		6200		6200		6200		6200		6200		
	Sound pressure level	dB(A)	64		64		64		64		64		64		
	Dimension (WxDxH)	Outline	mm	890x980x1000		890x980x1000		890x980x1000		890x980x1000		890x980x1000		890x980x1000	
		Package	mm	1060x930x560		1060x930x560		1060x930x560		1060x930x560		1060x930x560		1060x930x560	
Net weight/gross weight	kg	60/80		60/80		60/80		60/80		60/80		60/80			
Connecting pipe	Liquid/Gas	mm	φ9.52/12		φ9.52/12		φ9.52/12		φ9.52/12		φ9.52/12		φ9.52/12		
	Method of connection		Flared-fitting Joint		Flared-fitting Joint		Flared-fitting Joint		Flared-fitting Joint		Flared-fitting Joint		Flared-fitting Joint		
Loading quantity	40°GP/40°HQ	set	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.

Model	Normal		JKFD13C/Na-M		JKFD13QS/Na-M		JKFD13SX/Na-M		JKFD19C/Na-M		JKFD19QS/Na-M		JKFD19SX/Na-M		
	Modular		JKFD13CM/Na-M	JKFD13QSM/Na-M	JKFD13SXM/Na-M	JKFD19CM/Na-M	JKFD19QSM/Na-M	JKFD19SXM/Na-M							
Power supply		PhV/Hz	3/380/50		3/380/50		3/380/50		3/380/50		3/380/50		3/380/50		
Cooling capacity (total/sensible)	22°C/50%	kW	13.8/12.5		13.8/12.5		13.8/12.5		13.8/12.5		13.8/12.5		13.8/12.5		
	24°C/17°C	kW	14.0/12.6		14.0/12.6		14.0/12.6		14.0/12.6		14.0/12.6		14.0/12.6		
	24°C/45%	kW	13.9/12.8		13.9/12.8		13.9/12.8		13.9/12.8		13.9/12.8		13.9/12.8		
	26°C/50%	kW	15.6/14.0		15.6/14.0		15.6/14.0		15.6/14.0		15.6/14.0		15.6/14.0		
Rated input	Cooling/Heating	kW	6.0/7.1		6.0/7.1		6.0/7.1		6.0/7.1		6.0/7.1		6.0/7.1		
Rated current	Cooling/Heating	A	9.10/10.77		9.10/10.77		9.10/10.77		9.10/10.77		9.10/10.77		9.10/10.77		
Heating capacity		kW	6		6		6		6		6		6		
Humidifying	Rated capacity	kg/h	4		4		4		4		4		4		
	Power input	kW	3		3		3		3		3		3		
Range of temp. controlling and precision		°C	17~28°C±1°C		17~28°C±1°C		17~28°C±1°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%		40~60%±5%		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)		JKFD19SX/Na-M(I)		
		Modular	JKFD13CM/Na-M(I)		JKFD13QSM/Na-M(I)		JKFD13SXM/Na-M(I)		JKFD19CM/Na-M(I)		JKFD19QSM/Na-M(I)		JKFD19SXM/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)		JKFD19SXM/Na-M(O)		
	Quantity	Set	1		1		1		1		1		1		
	Air flow volume	m³/h	9800		9800		9800		11900		11900		11900		
	Sound pressure level	dB(A)	64		64		64		64		64		64		
	Dimension (WxDxH)	Outline	mm	1080x1180x960		1080x1180x960		1080x1180x960		1080x1180x1040		1080x1180x1040		1080x1180x1040	
		Package	mm	1265x1135x540		1265x1135x540		1265x1135x540		1265x1135x615		1265x1135x615		1265x1135x615	
Net weight/gross weight	kg	100/115		100/115		100/115		100/115		100/115		100/115			
Connecting pipe	Liquid/Gas	mm	φ12/16		φ12/16		φ12/16		φ16/19		φ16/19		φ16/19		
	Method of connection		Flared-fitting Joint		Flared-fitting Joint		Flared-fitting Joint		Flared-fitting Joint		Flared-fitting Joint		Flared-fitting Joint		
Loading quantity	40°GP/40°HQ	set	0/14		14/14		14/14		0/11		11/11		11/11		

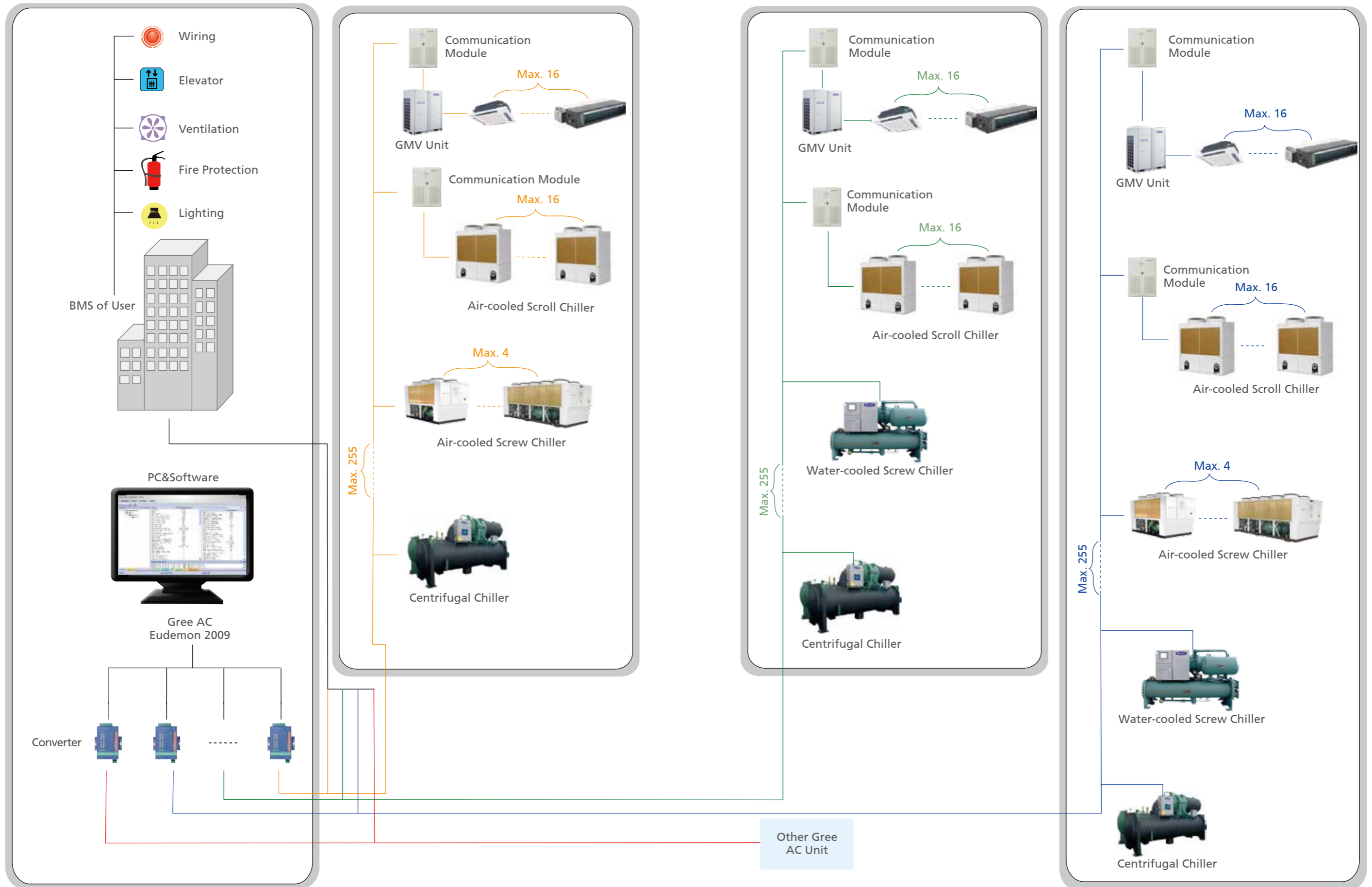
Model	Normal		JKFD25C2/Na-M		JKFD25QS2/Na-M		JKFD25SX2/Na-M		JKFD40C2/Na-M		JKFD40QS2/Na-M		JKFD40SX2/Na-M		
	Modular		JKFD25C2M/Na-M	JKFD25QS2M/Na-M	JKFD25SX2M/Na-M	JKFD40C2M/Na-M	JKFD40QS2M/Na-M	JKFD40SX2M/Na-M							
Power supply		PhV/Hz	3/380/50		3/380/50		3/380/50		3/380/50		3/380/50		3/380/50		
Cooling capacity (total/sensible)	22°C/50%	kW	25.4/22.8		25.4/22.8		25.4/22.8		25.4/22.8		25.4/22.8		25.4/22.8		
	24°C/17°C	kW	27.0/24.3		27.0/24.3		27.0/24.3		27.0/24.3		27.0/24.3		27.0/24.3		
	24°C/45%	kW	26.4/24.4		26.4/24.4		26.4/24.4		26.4/24.4		26.4/24.4		26.4/24.4		
	26°C/50%	kW	27.6/24.5		27.6/24.5		27.6/24.5		27.6/24.5		27.6/24.5		27.6/24.5		
Rated input	Cooling/Heating	kW	11.2/13.8		11.2/13.8		11.2/13.8		11.2/13.8		11.2/13.8		11.2/13.8		
Rated current	Cooling/Heating	A	16.97/20.91		16.97/20.91		16.97/20.91		16.97/20.91		16.97/20.91		16.97/20.91		
Heating capacity		kW	12		12		12		12		12		12		
Humidifying	Rated capacity	kg/h	8		8		8		8		8		8		
	Power input	kW	6		6		6		6		6		6		
Range of temp. controlling and precision		°C	17~28°C±1°C		17~28°C±1°C		17~28°C±1°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%		40~60%±5%		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)		JKFD19				

SPECIALIZED AC

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				39.3/36.0	
	24°C/17°C	kW				40.0/36.1	
	24°C/45%	kW				39.4/37.4	
	26°C/50%	kW				42.3/38.0	
Rated input	Cooling/Heating	kW				16.5/21.0	
Rated current	Cooling/Heating	A				34/38	
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		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	2480×810×2250		2480×810×1950	
		Package	mm	2560×910×2480		2560×910×2180	
Net weight/gross weight	kg		755/795		690/730		
Outdoor units	Model		JKFD40/Na-M(O)		JKFD40/Na-M(O)		
	Quantity	Set	1		1		
	Air flow volume	m³/h	23800		23800		
	Sound pressure level	dB(A)	64		64		
	Dimension (WxDxH)	Outline	mm	2500×1150×1250		2500×1150×1250	
		Package	mm	2600×1280×1410		2600×1280×1410	
Net weight/gross weight	kg		240/280		240/280		
Connecting pipe	Liquid/Gas	mm	φ19/22		φ19/22		
	Method of connection		Soldering Joint		Soldering Joint		
Loading quantity	40'GP/40'HQ	—	0/4		4/4		



LONG-DISTANCE CONTROL SYSTEM



PROJECTS REFERENCE



Armonia Rehabilitation Medical Centre
GMV IV
Greece



Biocon R&D Building
Water-cooled Screw Chiller
India



Mabo Fashion Mall
GMV IV
Macao,China



Sisak Thermolectric plant
Air-cooled Screw Chiller; GMV
Croatia



Reteks Textile Office
GMV IV
Turkey



Bistriza Houses
Versati
Bulgaria



Heritage Telfair Hotel
GMV
Mauritius



Hotel Sana
GMV
Bulgaria

Projects Reference Lineup

Country	Project Name	Installed Series
India	Biocon R&D Building	Water-cooled Screw Chiller
Jordan	Medical Clinics Building	U-match
Greece	Armonia Rehabilitation Medical Centre	GMV
Australia	Fairlanes	Digital GMV
Greece	Samos Bay	GMV
Croatia	Ex. Dairy Put Murvice	Free Match
Croatia	Croatia Villas Plat	Free Match
Austria	Private House	Home GMV
Macao,China	Ole Tai Sam Un Hotel	GMV
Bulgaria	Bistriza Houses	Versati
Mauritius	Heritage Telfair Hotel	GMV
Malaysia	Country Height	GMV
Malaysia	Dorset Boutique Hotel	GMV
Iraq	Phoenix Hotel	Rooftop Package Unit
Iraq	D&H-Joheina Center-5 Stars Hotel	GMV
Croatia	Sisak Thermolectric plant	Air-cooled Screw Chiller; GMV
Macao,China	Nittobo Glass Weaving	Water-cooled Screw Chiller
Australia	Cameron	Digital GMV
Cyprus	Electroline	GMV
Australia	SKF	Heat Recovery GMV
Croatia	Croatia Zara Rijeka	GMV
Vietnam	Ladeco Building	GMV
Vietnam	Sea Bank	GMV
Vietnam	TD Plaza	GMV
Macao,China	Mabo Fashion Mall	GMV
Turkey	Reteks Textile Office	GMV
Mauritius	Standard Chartered Bank	GMV
Mauritius	Ocean Call	GMV
Iraq	Med Bank	GMV
Cyprus	Lancashire University	GMV
Croatia	Croatia Lazarica Split	Free Match II
Bulgaria	Sliven Town Library	Air-cooled Scroll Chiller
Mauritius	Universal Construction	GMV
Iraq	SPA 300	GMV
Greece	Athens University	GMV
Bulgaria	Hotel Sana	GMV
Bulgaria	Markovo Houses	GMV
Bulgaria	Markovo village	Air-cooled Scroll Chiller
Croatia	FINA Rijeka	Air-cooled Scroll Chiller
Komiza (island Vis)	Museum of Komiza	GMV IV
Malta	ST JAMES HOSPITAL	Air-cooled Scroll Chiller,Mini Chiller
Costarica	INS CALL CENTER	GMV
Vietnam	Tan Hoang Ngoc Hotel	GMV
Vietnam	Ladeco Building	GMV
Vietnam	TD Plaza	GMV
Macao,China	Yingjing Hotel	Duct split
Bulgaria	Podgomer village	Versati
Bulgaria	Guest House	Versati
Bulgaria	Lozevo village	Versati
Mauritius	Aven Port	GMV
Mauritius	Neotown	GMV
Mauritius	Maureva	GMV
Mauritius	La Croisette	GMV