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Note:

Gree is committed to continuously improving its products to ensure the highest quality and reliability standards, and to meet local regulations and market requirements.

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Distributer



CAC T1 50Hz R410A/R134a



Gree Electric Appliances Inc. of Zhuhai, founded in 1991, is the world's largest air conditioner enterprise integrating R&D, manufacturing, marketing and service.

- 2012, Gree became the first listed electrical appliances enterprise in China with sales revenue over 16 billion USD (RMB 100 billion).
- 2013, GREE's sales revenue exceeded 19 billion USD.

Gree has been ranked on the Fortune Magazine as one of the Top 100 Chinese listed companies for 12 consecutive years.

Thanks to 300 million user's choices, Gree products are sold widely in more than 200 countries and regions. Today Gree's annual production capacity of RAC and CAC are more than 60 million sets and 5.5 million sets respectively.

Action makes the future and innovation makes achievement. Looking forward, Gree will firmly persist in the business philosophy of passion, innovation and realization. We aim to build a century's standing air conditioning enterprise, to create a better life for human.

For the Clearer Sky and Greener Earth.



1 in 3 air conditioners sold worldwide is made by Gree

مكيفر كازى
 مكيف الهواء
 air conditioner
 랭온풍기
 エアコン
 एर कन्डिशनर
 空调 climatiseur
 acondicionador de aire
 ar condicionado
 300,000,000 users

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No. 1
air conditioner
manufacturer



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



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



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.



- Built-in drain pump
- High efficiency
- Intelligent defrosting
- Anti-cold function
- Comprehensive protection
- Compact design
- Easier maintainability

- Double ambient temperature sensor design makes a precision temperature monitoring.
- Low start-up current thanks to power delay control design.
- Higher efficiency thanks to sine wave DC inverter compressor control.
- High reliability and easy maintenance thanks to one piece integrated PCB board.
- Stable cooling under -15°C and heating under -10°C outdoor environment temperature.



Indoor Unit

	Duct type	Cassette type	Floor ceiling type
• Drain pump fitted as optional with increased lift of 1100mm.	• Drain pump fitted as standard with increased lift of 1100mm.	• 3-D air flue design.	
• Fresh air inlet and air valve control function improve the indoor air quality.	• Special low noise fan design.	• Easy replacement of motor and fan blade thanks to clamp block propeller design.	
• Flexible air in/outlet and condensing water outlet direction according to different installation requirements.	• Different swing angle design for cooling and heating mode for better comfort.	• Different swing angle design for cooling and heating mode for better comfort.	
• Optimized air duct design improves the performance and lower the noise.			

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	-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	GUHD42NK3FO	GUHD48NK3FO	GUHD60NK3FO	
	Picture					
Indoor Unit	Duct	Model	GFH36K3FI	GFH42K3FI	GFH48K3FI	GFH60K3FI
		Picture				
	Cassette	Model	GKH36K3FI	GKH42K3FI	GKH48K3FI	GKH60K3FI
		Picture				
	Floor Ceiling	Model	GTH36K3FI	GTH42K3FI	GTH48K3FI	GTH60K3FI
		Picture				

Model	Outdoor unit		GUHD09NK3FO			GUHD12NK3FO		
	Indoor unit		Duct GFH09K3FI	Floor Ceiling GTH09K3FI	Duct GFH12K3FI	Cassette GKH12K3FI	Floor Ceiling GTH12K3FI	
Capacity	Cooling	kW	2.7	2.7	3.5	3.5	3.5	
		BTU/h	9212	9212	11942	11942	11942	
Heating	kW	2.9	2.9	3.8	3.8	3.8		
	BTU/h	9895	9895	12966	12966	12966		
SEER/SCOP	W/W	5.6/3.8	6.1/3.8	5.6/4.0	5.6/4.0	6.1/4.0		
Power supply	PhV/Hz	1/220-240/50		1/220-240/50				
Power input	Cooling	kW	1.7	1.7	1.9	1.9	1.9	
	Heating	kW	1.6	1.6	1.8	1.8	1.8	
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(HML)		CFM	383	353	441	412	
			m³/h	850	800	750	700	
	ESP	Rated	Pa	25	—	25	—	
		Range	Pa	0-30	—	0-30	—	
	Sound pressure level (SHHML)	dB(A)	36/34/28/26	31/29/26/24	37/36/34/28	46/45/41/36	35/33/30/27	
	Dimension (W×D×H)	Outline	mm	925×665×250	1220×700×225	1037×721×266	596×596×240	1220×700×225
Package		mm	1023×748×320	1343×823×315	1123×798×323	773×733×300	1343×823×315	
Net weight/Gross weight	kg	27/32	38/47	33/38	20/24	39/48		
Panel	Dimension (W×D×H)	mm	—	—	670×670×50	—	—	
	Package	mm	—	—	763×763×105	—	—	
Net weight/Gross weight	kg	—	—	3.5/5.0	—	—		
Outdoor unit	Sound pressure level	dB(A)	52		52			
	Dimension (W×D×H)	Outline	mm	848×320×540		848×320×540		
		Package	mm	881×363×595		881×363×595		
	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		GUHD16NK3FO			GUHD24NK3FO		
	Indoor unit		Duct GFH16K3FI	Cassette GKH16K3FI	Floor Ceiling GTH16K3FI	Duct GFH24K3FI	Cassette GKH24K3FI	Floor Ceiling GTH24K3FI
Capacity	Cooling	kW	8.3	8.3	8.3	10.0	10.0	10.0
		BTU/h	28320	28320	29002	34120	34120	34120
Heating	kW	9.2	9.2	9.2	12.0	12.0	12.0	
	BTU/h	31390	31390	31390	40944	40944	40944	
SEER/SCOP	W/W	6.1/4.0	6.1/4.0	6.1/4.0	5.6/4.0	6.1/4.0	6.1/4.0	
Power supply	PhV/Hz	1/220-240/50		1/220-240/50				
Power input	Cooling	kW	3.9	3.9	3.9	4.65	4.65	4.75
	Heating	kW	4.1	4.1	4.1	4.75	4.85	4.85
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(HML)		CFM	824	883	883	1236	1095
			m³/h	1400	1500	1500	2100	1860
	ESP	Rated	Pa	37	—	—	37	—
		Range	Pa	0-75	—	—	0-100	—
	Sound pressure level (SHHML)	dB(A)	47/46/44/40	49/48/45/40	49/48/44/38	53/52/48/44	51/49/46/43	54/53/51/46
	Dimension (W×D×H)	Outline	mm	1279×558×268	840×840×320	1420×700×245	1226×775×290	840×840×320
Package		mm	1348×597×283	963×963×409	1548×828×345	1338×877×305	963×963×409	1548×828×345
Net weight/Gross weight	kg	34/39	31/38	48/56	46/53	31/38	48/56	
Panel	Dimension (W×D×H)	mm	—	950×950×60	—	—	950×950×60	—
	Package	mm	—	1028×1043×130	—	—	1028×1043×130	—
Net weight/Gross weight	kg	—	7.0/11	—	—	7.0/11	—	
Outdoor unit	Sound pressure level	dB(A)	58		63			
	Dimension (W×D×H)	Outline	mm	980×427×790		1107×440×1100		
		Package	mm	1083×488×855		1158×493×1235		
	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		15/30			
Loading quantity	40'GP/40'HQ	-	76/89	49/69	57/67	45/60	43/50	

Model	Outdoor unit		GUHD18NK3FO			GUHD24NK3FO		
	Indoor unit		Duct GFH18K3FI	Cassette GKH18K3FI	Floor Ceiling GTH18K3FI	Duct GFH24K3FI	Cassette GKH24K3FI	Floor Ceiling GTH24K3FI
Capacity	Cooling	kW	5.0	5.0	5.0	7.0	7.0	7.0
		BTU/h	17060	17060	17060	23884	23884	23884
Heating	kW	5.6	5.6	5.6	8.0	8.0	8.0	
	BTU/h	19107	18766	19107	27296	27296	27296	
SEER/SCOP	W/W	5.6/3.8	5.6/3.8	6.1/4.0	6.1/4.0	6.1/4.0	5.6/4.0	
Power supply	PhV/Hz	1/220-240/50		1/220-240/50				
Power input	Cooling	kW	2.5	2.5	2.5	3.8	3.8	3.8
	Heating	kW	2.4	2.4	2.4	4.0	4.0	4.0
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(HML)		CFM	589	447	589	824	765
			m³/h	1000	760	1000	1400	1300
	ESP	Rated	Pa	25	—	—	25	—
		Range	Pa	0-30	—	—	0-75	—
	Sound pressure level (SHHML)	dB(A)	40/39/36/28	47/46/44/37	44/42/38/32	47/46/44/40	47/46/42/38	49/48/48/40
	Dimension (W×D×H)	Outline	mm	1037×721×268	596×596×240	1220×700×225	1279×558×268	840×840×240
Package		mm	1123×798×323	773×733×300	1343×823×315	1348×597×283	963×963×325	1343×823×315
Net weight/Gross weight	kg	33/38	20/24	39/48	34/39	26/32	40/50	
Panel	Dimension (W×D×H)	mm	—	670×670×50	—	—	950×950×60	—
	Package	mm	—	763×763×105	—	—	1028×1043×130	—
Net weight/Gross weight	kg	—	3.5/5.0	—	—	7.0/11	—	
Outdoor unit	Sound pressure level	dB(A)	56		57			
	Dimension (W×D×H)	Outline	mm	955×396×700		980×427×790		
		Package	mm	1029×458×750		1083×488×855		
	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	85/105	89/97	76/89	64/71	

Model	Outdoor unit		GUHD36NM3FO			GUHD42NK3FO		
	Indoor unit		Duct GFH36K3FI	Cassette GKH36K3FI	Floor Ceiling GTH36K3FI	Duct GFH42K3FI	Cassette GKH42K3FI	Floor Ceiling GTH42K3FI
Capacity	Cooling	kW	10.0	10.0	10.0	11.5	11.0	11.5
		BTU/h	34120	34120	34120	39238	37532	39238
Heating	kW	12.0	12.0	12.0	13.5	12.5	13.5	
	BTU/h	40944	40944	40944	46062	42650	46062	
SEER/SCOP	W/W	5.1/4.0	6.1/4.0	6.1/4.0	5.6/3.8	5.6/4.0	6.1/4.0	
Power supply	PhV/Hz	3/380-415/50		1/220-240/50				
Power input	Cooling	kW	4.75	4.80	4.80	4.80	4.75	4.75
	Heating	kW	4.85	4.85	4.85	4.85	4.90	4.90
Current input	Cooling	A	5.4	5.4	5.4	18.6	18.1	18.1
	Heating	A	5.8	5.8	5.8	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(HML)		CFM	1236	1095	1118	1236	1095
			m³/h	2100	1860	1900	2100	1860
	ESP	Rated	Pa	37	—	—	37	—
		Range	Pa	0-100	—	—	0-100	—
	Sound pressure level (SHHML)	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 (W×D×H)	Outline	mm	1226×775×290	840×840×320	1420×700×245	1226×775×290	840×840×320
Package		mm	1338×877×305	963×963×409	1548×828×345	1338×877×305	963×963×409	1548×828×345
Net weight/Gross weight	kg	46/53	31/38	48/56	46/53	31/38	50/58	
Panel	Dimension (W×D×H)	mm	—	950×950×60	—	—	950×950×60	—
	Package	mm	—	1028×1043×130	—	—	1028×1043×130	—
Net weight/Gross weight	kg	—	7.0/11	—	—	7.0/11	—	
Outdoor unit	Sound pressure level	dB(A)	63		61			
	Dimension (W×D×H)	Outline	mm	1107×440×1100		958×412×1349		
		Package	mm	1158×493×1235		1043×453×1500		
	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	15/30		30/50			
Loading quantity	40'GP/40'HQ	-	45/50	43/50	45/56	52/58	45/48	

Model	Outdoor unit		GUHD42HM3FO			GUHD48NK3FO			
	Indoor unit		Duct GFH42K3FI	Cassette GKH42K3FI	Floor Ceiling GTH42K3FI	Duct GFH48K3FI	Cassette GKH48K3FI	Floor Ceiling GTH48K3FI	
Capacity	Cooling	kW	11.5	11.0	11.5	14.0	14.0	14.0	
		BTU/h	39238	37532	39238	47768	47768	47768	
	Heating	kW	13.5	12.5	13.5	15.5	16.0	16.0	
		BTU/h	46062	42650	46062	52886	54582	54582	
SEER/SCOP		W/W	5.6/4.0	6.1/4.0	5.6/4.0	6.1/3.8	6.1/3.8	5.6/3.8	
Power supply		PhV/Hz	3/380-415/50			1/220-240/50			
Power input	Cooling	kW	4.9	4.8	4.8	6.7	6.7	6.6	
	Heating	kW	4.9	4.9	4.9	6.7	6.5	6.7	
Current input	Cooling	A	6.9	6.7	6.7	21.8	21.3	22.3	
	Heating	A	6.7	6.6	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(HML)		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 (SHHML)		dB(A)	53/52/48/44	51/49/46/43	55/54/52/47	55/53/49/45	53/52/47/41	56/55/50/40
	Dimension (WxDxH)	Outline	mm	1226*775*290	840*840*320	1420*700*245	1340*750*350	910*910*290	1700*700*245
Package		mm	1338*877*305	963*963*409	1548*828*345	1423*837*455	1023*993*375	1828*828*345	
Net weight/Gross weight		kg	46/53	31/38	50/58	56/65	43/50	59/68	
Panel	Outline	mm	-	950*950*60	-	-	1040*1040*65	-	
	Package	mm	-	1028*1043*130	-	-	1137*1137*140	-	
Net weight/Gross weight		kg	-	7.0/11	-	-	8.0/12	-	
Sound pressure level		dB(A)	-	61	-	-	59	-	
Outdoor unit	Outline	mm	-	958*412*1349	-	-	958*412*1349	-	
	Package	mm	-	1043*453*1500	-	-	1043*453*1500	-	
Net weight/Gross weight		kg	-	108/118	-	-	105/115	-	
Connection pipe	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	-	30/50	-	-	30/50	-	
Loading quantity		40'GP/40'HQ	-	52/58	45/48	43/47	38/48	43/50	43/47

Model	Outdoor unit		GUHD48HM3FO			GUHD60NM3FO			
	Indoor unit		Duct GFH48K3FI	Cassette GKH48K3FI	Floor Ceiling GTH48K3FI	Duct GFH60K3FI	Cassette GKH60K3FI	Floor Ceiling GTH60K3FI	
Capacity	Cooling	kW	14.0	14.0	14.0	16.0	16.0	16.0	
		BTU/h	47768	47768	47768	54582	54582	54582	
	Heating	kW	15.5	16.0	16.0	16.5	17.0	17.0	
		BTU/h	52886	54592	54592	56298	58004	58004	
SEER/SCOP		W/W	5.8/3.8	5.6/3.8	5.6/4.0	5.6/3.8	6.1/4.0	5.1/4.0	
Power supply		PhV/Hz	3/380-415/50			3/380-415/50			
Power input	Cooling	kW	6.7	6.7	6.6	7.4	7.4	7.4	
	Heating	kW	6.7	6.7	6.7	7.2	7.2	7.2	
Current input	Cooling	A	8.80	8.90	8.60	9.70	9.80	10.0	
	Heating	A	7.80	7.80	7.80	7.80	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(HML)		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 (SHHML)		dB(A)	55/53/49/45	53/52/47/41	56/55/50/46	57/56/54/49	55/53/47/41	58/56/52/46
	Dimension (WxDxH)	Outline	mm	1340*750*350	910*910*290	1700*700*245	1340*750*350	910*910*290	1700*700*245
Package		mm	1423*837*455	1023*993*375	1828*828*345	1423*837*455	1023*993*375	1828*828*345	
Net weight/Gross weight		kg	56/65	43/50	59/68	57/69	43/50	59/68	
Panel	Outline	mm	-	1040*1040*65	-	-	1040*1040*65	-	
	Package	mm	-	1137*1137*140	-	-	1137*1137*140	-	
Net weight/Gross weight		kg	-	8.0/12	-	-	8.0/12	-	
Sound pressure level		dB(A)	-	59	-	-	63	-	
Outdoor unit	Outline	mm	-	958*412*1349	-	-	1086*427*1365	-	
	Package	mm	-	1043*453*1500	-	-	1143*478*1505	-	
Net weight/Gross weight		kg	-	114/124	-	-	126/138	-	
Connection pipe	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	-	30/50	-	-	30/50	-	
Loading quantity		40'GP/40'HQ	-	38/48	43/50	43/47	40/40	38/48	39/42

Control System Lineup

Controlling system		Product series			High efficiency series		
		Duct type	Cassette type	Floor ceiling type	Duct type	Cassette type	Floor ceiling type
Wireless remote controller	YB1FA				<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
	YV1FB7F	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	YV1FB7	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	YB1FAF	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	YAM1F	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	YAM1FF	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Wired controller	Z4K351J	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	Z4K351CJ	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

Note:
 means standard, means optional.

U-Match

₹410A

Fixed Frequency Series

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



- Intelligent defrosting
- Compact design
- Anti-cold function
- Comprehensive protection
- Easier maintainability
- Self diagnosis
- Wide operation range

- 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 ceiling, cassette, duct type indoor unit.



Indoor Unit

	Duct type	Cassette type
<ul style="list-style-type: none"> • Fresh air inlet and air valve control function improve the indoor air quality. • Flexible air in/outlet and condensing water outlet direction according to different installation requirements. • Optimized air duct design improves the performance and lower the noise. 	<ul style="list-style-type: none"> • Drain pump fitted as standard with increased lift of 1100mm. • Special low noise fan design. • Different swing angle design for cooling and heating mode for better comfort. • All kinds of air freshener can be installed in the filter, such as catechin 	<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	-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	 GFH60K3B2I
		Cassette	 GKH30K3B1I	 GKH36K3BI	 GKH42K3BI	 GKH48K3B1I	 GKH60K3B2I
	Floor Ceiling	 GTH30K3B1I	 GTH36K3BI	 GTH42K3BI	 GTH48K3B1I	 GTH60K3B2I	

Model	Outdoor unit		GUHN09NK3AO			GUHN12NK3AO		
	Indoor unit		Duct GFH09K3BI	Floor Ceiling GTH09K3BI	Duct GFH12K3BI	Cassette GKH12K3BI	Floor Ceiling GTH12K3BI	
Capacity	Cooling	W BTU/h	2600 8870	2600 8870	3500 11940	3500 11940	3500 11940	
	Heating	W BTU/h	2650 9120	2650 9120	3600 12280	3600 12280	3600 12280	
EER/COP	W/W		2.60/2.94	2.60/2.85	2.92/3.27	2.99/3.27	2.99/3.27	
Power supply	Ph/V/Hz		1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	
Power input	Cooling	kW	1.00	1.00	1.20	1.17	1.17	
	Heating	kW	0.97	1.00	1.10	1.10	1.10	
Current input	Cooling	A	4.4	4.3	5.4	5.4	5.4	
	Heating	A	4.3	4.5	5.1	5.1	5.1	
Refrigerant charge volume	kg		1.1	1.1	1	1	1	
Indoor unit	Air flow volume(H/M/L)		m ³ /h CFM	550/470/400 324/277/235	550/470/380 324/277/224	800/540/490 353/317/268	550/490/420 324/288/247	550/470/380 324/277/224
	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)	Outline	mm	913*680*220	836*695*238	913*680*220	600*600*230	836*695*238
		Package	mm	998*753*273	838*808*310	998*753*273	851*681*325	838*808*310
	Net Weight /Gross Weight		kg	24/29	25/32	25/30	20/27	26/33
Panel	Dimension (WxDxH)	mm	—	—	—	650*650*50	—	
	Package	mm	—	—	—	870*730*102	—	
Net weight/Gross weight		kg	—	—	—	2.5/3.5	—	
Outdoor unit	Sound pressure level		dB(A)			56		56
	Dimension (WxDxH)	Outline	mm			820*320*540		820*320*540
		Package	mm			873*363*605		873*363*605
	Net weight /Gross weight		kg			32/37		32/37
Connection pipe	Outer diameter	Liquid Gas	inch(mm)	φ1/4(6.35)			φ1/4(6.35)	
	Max.distance	Height/Length	m	15/20			15/20	
Loading quantity	40'GP/40'HQ set		123/160	118/143	123/160	113/144	118/143	

Model	Outdoor unit		GUHN36NK3A10			GUHN36NK3AO			
	Indoor unit		Duct GFH36K3BI	Cassette GKH36K3BI	Floor Ceiling GTH36K3BI	Duct GFH36K3BI	Cassette GKH36K3BI	Floor Ceiling GTH36K3BI	
Capacity	Cooling	W BTU/h	8300 28320	8300 28320	8500 29000	9800 33440	10000 34120	10000 34120	
	Heating	W BTU/h	9100 31050	8800 30020	9800 33440	11000 37530	11000 37530	11000 37530	
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	Ph/V/Hz		1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	
Power input	Cooling	kW	3.00	2.90	3.00	4.00	3.60	3.60	
	Heating	kW	3.00	3.15	2.85	3.50	3.30	3.30	
Current input	Cooling	A	13.5	13.1	13.6	22.0	20.0	20.0	
	Heating	A	13.9	13.1	13.6	19.0	18.0	18.0	
Refrigerant charge volume	kg		3.0	3.0	3.0	3.2	3.2	3.2	
Indoor unit	Air flow volume(H/M/L)		m ³ /h CFM	1500/1300/1100 882/765/647	1400/1270/1170 824/747/689	1600/1450/1300 942/853/765	2000/1900/1800 1177/1118/1059	1660/1570/1500 977/924/883	1800/1630/1520 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	51/48/48	52/51/49	50/48/46	53/51/48	54/51/48
	Dimension (WxDxH)	Outline	mm	1270*530*268	840*840*240	1420*700*245	1226*775*290	840*840*320	1590*695*238
		Package	mm	1348*597*283	963*963*325	1878*828*345	1338*837*305	963*963*409	1717*833*345
	Net Weight /Gross Weight		kg	37/43	27/36	48/58	54/61	32/43	48/58
Panel	Dimension (WxDxH)	mm	—	950*950*60	—	—	950*950*60	—	
	Package	mm	—	1025*1040*115	—	—	1025*1040*115	—	
Net weight/Gross weight		kg	—	6.5/10	—	—	6.5/10	—	
Outdoor unit	Sound pressure level		dB(A)			59			
	Dimension (WxDxH)	Outline	mm			980*427*790			
		Package	mm			1083*488*855			
	Net weight /Gross weight		kg			70/75			
Connection pipe	Outer diameter	Liquid Gas	inch(mm)	φ3/8(9.52)			φ1/2(12.7)		
	Max.distance	Height/Length	m	15/30			30/50		
Loading quantity	40'GP/40'HQ set		74/85	56/84	72/84	84/70	44/53	55/58	





































Model	Outdoor unit		GUHN18NK3AO			GUHN24NK3AO			
	Indoor unit		Duct GFH18K3BI	Cassette GKH18K3BI	Floor Ceiling GTH18K3BI	Duct GFH24K3BI	Cassette GKH24K3BI	Floor Ceiling GTH24K3BI	
Capacity	Cooling	W BTU/h	5000 17060	5000 17060	5000 17060	7000 23880	6800 23200	7000 23880	
	Heating	W BTU/h	5700 19450	5400 18430	5700 19450	8000 27300	7500 25600	8000 27300	
EER/COP	W/W		2.38/3.17	2.50/2.84	2.48/2.75	2.63/3.19	2.60/3.00	2.68/3.08	
Power supply	Ph/V/Hz		1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	
Power input	Cooling	kW	2.10	2.00	2.03	2.66	2.62	2.61	
	Heating	kW	1.80	1.90	2.07	2.51	2.50	2.59	
Current input	Cooling	A	9.4	9.0	9.3	12.1	11.9	11.8	
	Heating	A	8.0	8.7	9.5	11.4	11.4	11.7	
Refrigerant charge volume	kg		1.5	1.5	1.5	2.2	2.2	2.2	
Indoor unit	Air flow volume(H/M/L)		m ³ /h CFM	840/750/680 494/441/400	550/490/420 324/288/247	700/640/570 412/377/335	1600/1400/1200 941/824/706	1180/1080/1000 694/636/589	1170/1080/1000 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)	Outline	mm	1012*736*268	600*600*230	836*695*238	1270*530*268	840*840*240	1300*600*198
		Package	mm	1123*798*323	851*681*325	938*808*310	1348*597*283	963*963*325	1417*727*263
	Net Weight /Gross Weight		kg	34/41	20/27	26/33	37/43	27/36	33/40
Panel	Dimension (WxDxH)	mm	—	650*650*50	—	—	950*950*60	—	
	Package	mm	—	670*730*102	—	—	1025*1040*115	—	
Net weight/Gross weight		kg	—	2.5/3.5	—	—	6.5/10	—	
Outdoor unit	Sound pressure level		dB(A)			56			
	Dimension (WxDxH)	Outline	mm			820*320*540			
		Package	mm			873*363*605			
	Net weight /Gross weight		kg			40/45			
Connection pipe	Outer diameter	Liquid Gas	inch(mm)	φ1/4(6.35)			φ3/8(9.52)		
	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 GFH36K3BI	Cassette GKH36K3BI	Floor Ceiling GTH36K3BI	Duct GFH42K3BI	Cassette GKH42K3BI	Floor Ceiling GTH42K3BI	
Capacity	Cooling	W BTU/h	9800 33440	10000 34120	9800 33440	12000 40940	12000 40940	12000 40940	
	Heating	W BTU/h	11000 37530	11000 37530	10780 36780	14000 47770	14000 47770	14000 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	Ph/V/Hz		3/380-415/50	3/380-415/50	3/380-415/50	3/380-415/50	3/380-415/50	3/380-415/50	
Power input	Cooling	kW	4.00	3.60	3.60	5.30	4.80	4.80	
	Heating	kW	3.50	3.30	3.30	4.90	5.00	4.70	
Current input	Cooling	A	7.0	6.7	6.7	9.6	8.7	8.7	
	Heating	A	6.3	5.7	6.0	8.9	8.5	8.5	
Refrigerant charge volume	kg		3.2	3.2	3.2	3.55	3.55	3.55	
Indoor unit	Air flow volume(H/M/L)		m ³ /h CFM	2000/1900/1800 1177/1118/1059	1660/1570/1500 977/924/883	1800/1630/1520 1059/959/894	2000/1900/1800 1177/1118/1059	1660/1570/1500 977/924/883	1800/1630/1520 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)	Outline	mm	1226*775*290	840*840*320	1590*695*238	1226*775*290	840*840*320	1590*695*238
		Package	mm	1338*837*305	963*963*409	1717*833*345	1338*837*305	963*963*409	1717*833*345
	Net Weight /Gross Weight		kg	54/61	32/43	48/58	54/61	32/43	48/58
Panel	Dimension (WxDxH)	mm	—	950*950*60	—	—	950*950*60	—	
	Package	mm	—	1025*1040*115	—	—	1025*1040*115	—	
Net weight/Gross weight		kg	—	6.5/10	—	—	6.5/10	—	
Outdoor unit	Sound pressure level		dB(A)			60			
	Dimension (WxDxH)	Outline	mm			1018*412*840			
		Package	mm			1103*453*1000			
	Net weight /Gross weight		kg			90/100			
Connection pipe	Outer diameter	Liquid Gas	inch(mm)	φ1/2(12.7)			φ1/2(12.7)		
	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-Macth(Fixed Frequency Series)

Model	Outdoor unit		GUHN48NM3A1O			GUHN60NM3A2O			
	Indoor unit		Duct GFH48K3B1I	Cassette GKH48K3B1I	Floor Ceiling GTH48K3B1I	Duct GFH60K3B2I	Floor Ceiling GTH60K3B2I	Cassette GKH60K3B2I	
Capacity	Cooling	W	13200	13200	13200	15500	15500	15500	
		BTU/h	45040	45040	45040	52800	52800	52800	
	Heating	W	14500	14500	14500	18500	18500	18000	
		BTU/h	49470	49470	49470	63120	63120	61410	
EER/COP	W/W	2.59/3.15	2.75/2.79	2.64/3.02	2.50/3.49	2.58/3.49	2.50/3.48		
Power supply	Ph/V/Hz	3/380-415/50	3/380-415/50	3/380-415/50	3/380-415/50	3/380-415/50	3/380-415/50		
Power input	Cooling	kW	5.10	4.80	5.0	6.20	6.00	6.00	
	Heating	kW	4.60	5.20	4.8	5.30	5.30	5.30	
Current input	Cooling	A	9.2	8.7	9.0	11.3	10.9	10.8	
	Heating	A	8.3	9.5	8.7	9.6	9.6	10.3	
Refrigerant charge volume	kg	3.8	3.8	3.8	5	4.5	4.5		
Indoor unit	Air flow volume(H/M/L)	m ³ /h	2300/2110/1850	1660/1570/1500	2100/1900/1800	2500/2070/1730	2300/2100/1900	2400/2100/1900	
		CFM	1354/1242/1089	977/924/883	1236/1118/1059	1471/1218/1018	1353/1236/1118	1412/1295/1118	
	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	58/55/52	55/53/49	
	Dimension (W×D×H)	mm	1226×775×290	840×840×320	1590×695×238	1226×815×330	1700×700×245	910×910×290	
Package		mm	1338×837×305	963×963×409	1717×833×345	1338×885×345	1825×825×330	1020×990×360	
Net Weight /Gross Weight	kg	57/67	32/43	48/58	66/76	65/73	43/53		
Panel	Dimension (W×D×H)	Outline	mm	—	950×950×60	—	—	1040×1040×65	
		Package	mm	—	1028×1043×130	—	—	1137×1137×140	
	Net weight/Gross weight	kg	—	6.5/10	—	—	—	8/12	
Outdoor unit	Sound pressure level	dB(A)	63			64			
	Dimension (W×D×H)	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)			
Max.distance	Height/Length	m	30/50			30/50			
Loading quantity	40'GP/40'HQ	set	45/49	42/48	44/49	45/49	45/49	45/49	

Control System Lineup

Controlling system	Product series	Image	U-Match		
			Fixed frequency series		
			Duct type	4-Way Cassette type	Floor ceiling type
Wireless remote controller	YB1F2				
	Z4B351				
Wired controller	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			
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.

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.



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

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

Model	Heat pump		FOR20/BN-M	FOR25/CH-M	FOR30/BN-M	FOR40/BN-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	WW		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	3/380-415/50	3/380-415/50	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	22.8	28.6	
Refrigerant charge volume		kg	5.3	6.7	9.5	12	
Indoor unit	Air flow volume	CFM	2354	2825	3237	4120	
		m ³ /h	4000	4800	5600	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 (W×D×H)	Outline	mm	1463×799×389	1500×1000×500	1500×1000×500	1700×1100×650
	Package	mm	1546×886×485	1640×1230×688	1640×1230×688	1893×1463×850	
	Net weight /Gross weight	kg	88/109	150/200	156/206	215/285	
Outdoor unit	Sound pressure level	dB (A)	65	66	67	69	
	Dimension (W×D×H)	Outline	mm	1150×360×1350	1150×360×1600	990×880×1772	1290×880×1772
		Package	mm	1320×505×1490	1320×505×1745	1165×983×1965	1373×983×1965
		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)
Loading quantity	20GP	Height	m	30	30	30	30
		Length	m	50	50	50	50
	40GP/40HQ	set		17	13	13	8
		set		36/36	28/38	28/38	16/16

Control System Lineup

Controlling system		Product series	High capacity series
Wireless remote controller	YB1F2		<input type="radio"/>
Wired controller	Z4E351A		<input checked="" type="radio"/>
Long-distance monitoring software	Gree AC Eudemon 2009*	FE30-00/A(M)	<input type="radio"/>
BMS accessories	Communication module (modbus)	ME30-00/E2	<input type="radio"/>
Centralized controller	Smart zone controller	CE50-24/E	<input type="radio"/>
Other modules	Optoelectronic isolated converter	RS232-RS422/485	<input type="radio"/>
	Optoelectronic isolated signal multiplier	RS-422/485	<input type="radio"/>

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.

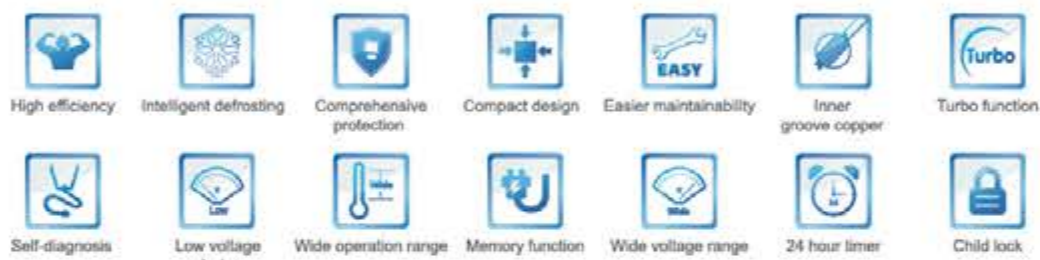
MULTI-VRF

Free Match 4 & 4+
Super Free-Match
All DC Inverter VRF (GMV5)
Inverter Series (GMV IV)
HOME GMV
GMV5 HR
GMV HR-II
Fresh Air Series
Energy Recovery Ventilation(ERV)
Control System Lineup



Free Match 4 & 4+

Capacity range from 18 to 42Btu/h can be widely used in residential house, hotel, business office and especially applicable in variable loading situation.



- Operate finely when cooling at -15°C.
- Different units for choices, the same comfortable feeling for you.
- Lower power consumption; Lower noise, more comfort; Precise temperature control.
- Free Match 4 has no 0.5W standby function, while it has electric heating belt; Free Match 4+ has 0.5W standby function, while it hasn't electric heating belt.

Outdoor Unit (Free match 4&4+)

Model	Heat Pump	GWHD(14)NK3DO	GWHD(18)NK3KO	GWHD(21)NK3KO	GWHD(24)NK3KO	GWHD(28)NK3KO	GWHD(36)NK3BO	GWHD(42)NK3AO
Capacity	Cooling	14000	18000	21000	24000	28000	35826	41285
	Heating	14000	18000	21000	24000	28000	37532	44400
SEER	W/W	6.1	6.1	6.1	6.1	6.1	5.5	5.5
Power supply	Ph/V/Hz	1Ph,220-240V,50Hz						
Power input	Cooling	1.2	1.55	1.91	2.18	2.54	3.5	3.59
	Heating	1.10	1.42	1.65	1.89	2.20	3.75	3.54
Refrigerant charge volume	kg	1.4	1.4	2.2	2.2	2.4	4.3	4.8
Air flow volume	m³/h	2600	3200	3200	4000	4000	5200	5500
Sound pressure level	dB(A)	55	56	56	58	58	57	54
Dimension (W×D×H)	Outline	898X596X378	955X396X700	955X396X700	980X427X790	980X427X790	1015X440X1103	1015X440X1103
	Package	948×420×645	1029×458×750	1029×458×750	1083×488×855	1083×488×855	1158×493×1235	1158×493×1235
Net weight/Gross weight	kg	43/47	50/55	51/56	68/73	68/74	94/104	102/112
Connecting pipe diameter	Gas	3/8(φ9.52)	3/8(φ9.52)	3/8(φ9.52)	3/8(φ9.52)	3/8(φ9.52)	3/8(φ9.52)	1/2(φ12.7)
	Liquid	1/4 (φ6)	1/4 (φ6)	1/4 (φ6)	1/4 (φ6)	1/4 (φ6)	1/4 (φ6)	1/4 (φ6)
Max. equivalent connection pipe length	m	20	20	80	60	70	70	80
Maximum drive IDU NO.	unit	5	5	5	5	5	5	5
Loading quantity	40/GP40/HQ	204/272	171/171	171/171	96/144	96/144	48/96	48/96

Item	Nominal operating condition(temperature)				Operation range(temperature)		
	Outdoor condition		Indoor condition		Outdoor condition (Free match 4)		Outdoor condition (Free match 4+)
	DB(°C)	WB(°C)	DB(°C)	WB(°C)	DB(°C)	DB(°C)	
Cooling	35	24	27	19	-15~43	-	18~43
Heating	7	6	20	15	-20~24	-	-15~24

Combinations of Outdoor Unit

8 Combinations

GWHD(14)NK3DO	One unit		Two units	
	7	7+7	7+9	
	9	7+12	9+9	
	12	9+12	-	

10 Combinations

GWHD(18)NK3KO	One unit		Two units	
	7	7+7	7+9	
	9	7+12	7+18	
	12	9+9	9+12	

18 Combinations

GWHD(21)NK3KO	Two units		Three units	
	7+7	7+9	7+7+7	7+7+9
	7+12	7+18	7+7+12	7+9+9
	9+9	9+12	7+9+12	7+12+12
	9+18	12+12	9+9+9	9+9+12
	12+18	-	12+12+12	-

23 Combinations

GWHD(24)NK3KO	Two units		Three units	
	7+7	7+9	7+7+7	7+7+9
	7+12	7+18	7+7+12	7+7+18
	9+9	9+12	7+9+9	7+9+12
	9+18	12+12	7+9+18	7+12+12
	12+18	18+18	9+9+9	9+9+12
			9+9+18	9+12+12

40 Combinations

GWHD(28)NK3KO	Two units		Three units		Four units	
	7+7	7+9	7+7+7	7+7+9	7+7+7+7	7+7+7+9
	7+12	7+18	7+7+12	7+7+18	7+7+7+12	7+7+7+18
	9+9	9+12	7+9+9	7+9+12	7+7+9+9	7+7+9+12
	9+18	12+12	7+9+18	7+12+12	7+7+9+18	7+7+12+12
	12+18	18+18	7+12+18	9+9+9	7+9+9+9	7+9+9+12
	-	-	9+9+12	9+9+18	7+9+12+12	9+9+9+9
	-	-	9+12+12	9+12+18	9+9+9+12	9+9+12+12
	-	-	12+12+12	12+12+18	-	-
	-	-	-	-	-	-

97 Combinations

GWHD(36)NK3BO	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+18	18+21	7+7+9	7+12+24	9+12+24	7+7+7+9	7+7+12+24
	7+21	18+24	7+7+12	7+18+18	9+18+18	7+7+7+12	7+7+18+18
	7+24	21+21	7+7+18	7+18+21	9+18+21	7+7+7+18	7+9+9+18
	9+9	21+24	7+7+21	7+18+24	9+18+24	7+7+9+21	7+9+9+12
	9+12	24+24	7+7+24	7+21+21	9+21+21	7+7+7+24	7+9+9+24
	9+18	-	7+9+9	9+9+9	12+12+12	7+7+9+9	7+9+9+21
	9+21	-	7+9+12	9+9+12	12+12+18	7+7+9+12	7+9+9+24
	9+24	-	7+9+18	9+9+18	12+12+21	7+7+9+18	7+9+12+21
	12+12	-	7+9+21	9+9+21	12+12+24	7+7+9+21	7+9+18+18
	12+18	-	7+9+24	9+9+24	12+18+18	7+7+9+24	7+9+12+21
	12+21	-	7+12+12	9+12+12	12+18+21	7+7+12+12	7+9+18+18
	12+24	-	7+12+18	9+12+18	18+18+18	7+7+12+18	7+12+12+12

155 Combinations

GWHD(42)NK3AO	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+18+24	7+12+12+21	7+12+18+18	7+7+7+7+7	7+7+9+12+12
	7+21	7+7+9	7+21+24	12+12+18	7+7+7+9	7+9+9+9	7+12+12+24	9+9+9+9	7+7+7+7+9	7+7+9+12+18
	7+24	7+7+12	7+24+24	12+12+21	7+7+7+12	7+9+9+12	7+12+18+18	9+9+9+12	7+7+7+7+12	7+7+9+12+21
	9+12	7+7+18	9+9+9	12+12+24	7+7+7+18	7+9+9+18	7+12+18+21	9+9+9+18	7+7+7+7+18	7+7+12+12+12
	9+18	7+7+21	9+9+12	12+18+18	7+7+7+21	7+9+9+21	7+12+18+24	9+9+9+21	7+7+7+7+21	7+7+12+12+18
	9+21	7+7+24	9+9+18	12+18+21	7+7+7+24	7+9+9+24	7+12+21+21	9+9+9+24	7+7+7+7+24	7+9+9+9+9
	9+24	7+9+9	9+9+21	12+18+24	7+7+9+9	7+9+12+12	7+18+18+18	9+9+12+12	7+7+7+9+9	7+9+9+9+12
	12+12	7+9+12	9+9+24	12+21+21	7+7+9+12	7+9+12+18	9+9+9+9	9+9+12+18	7+7+7+9+12	7+9+9+9+18
	12+18	7+9+18	9+12+12	12+21+24	7+7+9+18	7+9+12+21	9+9+9+12	9+9+12+21	7+7+7+9+18	7+9+9+9+21
	12+21	7+9+21	9+12+18	12+24+24	7+7+9+18	7+9+12+24	9+9+9+18	9+9+12+24	7+7+7+9+21	7+9+9+12+12
	12+24	7+9+24	9+12+21	18+18+18	7+7+9+21	7+9+18+18	9+9+9+21	9+9+18+18	7+7+7+9+24	7+9+9+12+18
	18+18	7+12+12	9+12+24	18+18+21	7+7+9+24	7+9+18+21	9+9+9+24	9+12+12+12	7+7+7+12+12	7+9+12+12+12
	18+21	7+12+18	9+18+18	18+18+24	7+7+12+12	7+9+12+12	9+9+9+24	9+12+12+18	7+7+7+12+18	7+12+12+12+12
	18+24	7+12+21	9+18+21	18+21+21	7+7+12+18	7+12+12+18	9+9+12+18	9+12+12+21	7+7+7+12+21	9+9+9+9+9
21+21	7+12+24	9+18+24	-	7+7+12+21	7+12+12+21	9+9+12+21	12+12+12+12	7+7+9+9+9	9+9+9+9+12	
21+24	7+18+18	9+21+21	-	7+7+12+24	7+12+12+24	9+9+12+24	12+12+12+18	7+7+9+9+12	9+9+9+9+18	
24+24	7+18+21	9+21+24	-	7+7+18+18	7+12+18+18	9+9+18+18	-	7+7+9+9+18	9+9+9+12+12	
-	7+18+24	7+24+24	-	7+7+18+21	9+9+9+9	9+9+18+21	-	7+7+9+9+21	9+9+12+12+12	

Indoor Unit Lineup

Capacity Index(Btu/h)		7000	8000	12000	18000	21000	24000
Wall Mounted Type	Hansol	●	●	●	●		●
	Viola	●	●	●	●		●
	Lomo	●	●	●	●		●
	Cozy	●	●	●	●		●
	change	●	●	●	●		●
Duct type			●	●	●	●	
Cassette type				●	●	●	
Floor ceiling type			●	●	●		

Wall-mounted Type Indoor Unit

Hansol (Free match 4&4+)

Model		GWH07TB-S3DNA1D/I	GWH09TB-S3DNA1D/I	GWH12TB-S3DNA1D/I	GWH18TC-S3DNA1D/I	GWH24TD-S3DNA1D/I
Capacity	Cooling	7200	8530	11950	18080	23884
	Heating	8880	10920	13650	18430	24907
Power supply	PhV/Hz	1Ph,220-240V,50Hz				
Airflow volume	m³/h	600	650	750	950	1200
	CFM	353	383	441	559	706
Sound pressure level(H/M/L/SL)	dB(A)	38/36/32/30	43/36/34/32	43/36/34/32	46/44/42/40	51/50/46/44
Connecting pipe	Gas	3/8 (φ9.52)	3/8 (φ9.52)	1/2 (φ12)	5/8 (φ16)	5/8 (φ16)
	Liquid	1/4 (φ6)	1/4 (φ6)	1/4 (φ6)	1/4 (φ6)	1/4 (φ6)
Dimension (W×H×D)	Outline	806×209×292	806×209×292	806×209×292	1018×230×319	1178×326×264
	Package	888×297×377	888×297×377	945×297×377	1097×340×397	1258×414×364
Net weight/Gross weight	kg	10/13.0	11.0/13.0	11.0/13.0	14.0/17.0	17.0/21.0
Loading quantity	20'GP	set	266	266	252	132
	40'GP/40'HQ	set	553/632	553/632	518/592	368/427

Lomo (Free match 4&4+)

Model		GWH07QB-K3DNA1Q/I	GWH09QB-K3DNA1Q/I	GWH12QC-K3DNA1Q/I	GWH18QD-K3DNA1Q/I	GWH24QE-K3DNA1Q/I
Capacity	Cooling	7165	8880	11900	17500	22860
	Heating	8871	9550	12500	18000	24737
Power supply	PhV/Hz	1Ph,220-240V,50Hz				
Airflow volume	m³/h	550	560	660	800	1150
	CFM	324	330	388	421	677
Sound pressure level(H/M/L/SL)	dB(A)	38/36/32/28	55/52/44/38	57/53/45/42	46/42/39/36	48/45/42/39
Connecting pipe	Gas	3/8 (φ9.52)	3/8 (φ9.52)	3/8 (φ9.52)	1/2 (φ12)	5/8 (φ16)
	Liquid	1/4 (φ6)	1/4 (φ6)	1/4 (φ6)	1/4 (φ6)	1/4 (φ6)
Dimension (W×H×D)	Outline	790×200×257	790×200×257	845×209×289	970×300×224	955×700×396
	Package	866×271×367	866×271×367	921×281×379	1041×383×320	1029×750×458
Net weight/Gross weight	kg	9/11	9/11	10.0/12.0	13.5/16.5	17/20.5
Loading quantity	20'GP	set	334	334	294	168
	40'GP/40'HQ	set	692/804	692/804	600/674	479/545

Cozy (Free match 4&4+)

Model		GWH07MB-K3DNE3Q/I	GWH09MB-K3DNE3Q/I	GWH12MB-K3DNE3Q/I	GWH18MC-K3DNE3Q/I	GWH24MD-K3DNE3Q/I
Capacity	Cooling	7200	8900	11940	18000	22000
	Heating	8880	10240	13650	19800	24000
Power supply	PhV/Hz	1Ph,220-240V,50Hz				
Airflow volume	m³/h	580	600	600	850	1000
	CFM	341	353	353	500	588
Sound pressure level(H/M/L/SL)	dB(A)	41/39/34/28	42/39/34/28	42/40/35/30	45/43/37/33	51/47/42/39
Connecting pipe	Gas	3/8(φ9.52)	3/8(φ9.52)	3/8(φ9.52)	1/2(φ12)	5/8 (φ16)
	Liquid	1/4 (φ6)	1/4 (φ6)	1/4 (φ6)	1/4 (φ6)	1/4 (φ6)
Dimension (W×H×D)	Outline	790x170x265	790x170x265	845x180x275	940x200x295	1007x315x219
	Package	873x251x370	873x251x370	918x258x370	1013x383x300	1076x398x328
Net weight/Gross weight	kg	9.0/12.0	9.0/12.0	9.0/12.0	12.0/15.0	15/18.5
Loading quantity	20'GP	set	348	348	336	210
	40'GP/40'HQ	set	732/852	732/852	684/798	541/609

Viola (Free match 4&4+)

Model		GWH07RB-K3DNA5Q/I	GWH09RB-K3DNA5Q/I	GWH12RB-K3DNA5Q/I	GWH18RC-K3DNA5Q/I	GWH24RD-K3DNA5Q/I
Capacity	Cooling	7200	8880	11900	18000	22000
	Heating	8880	10240	13650	19790	24000
Power supply	PhV/Hz	1Ph,220-240V,50Hz				
Airflow volume	m³/h	580	600	600	850	1000
	CFM	341	353	353	600	588
Sound pressure level(H/M/L/SL)	dB(A)	41/39/34/28	41/39/34/28	42/40/35/30	45/43/37/33	51/47/42/39
Connecting pipe	Gas	3/8(φ9.52)	3/8(φ9.52)	3/8(φ9.52)	1/2(φ12)	5/8 (φ16)
	Liquid	1/4 (φ6)	1/4 (φ6)	1/4 (φ6)	1/4 (φ6)	1/4 (φ6)
Dimension (W×H×D)	Outline	848x189x274	848x189x274	848x189x274	945x208x298	1018x233x315
	Package	926x267x371	926x267x371	926x267x371	1013x383x300	1088x328x398
Net weight/Gross weight	kg	9.0/11.0	9.0/11.0	9.0/11.0	12.0/15.0	15/18.5
Loading quantity	20'GP	set	306	306	306	252
	40'GP/40'HQ	set	636/742	636/742	636/742	541/609

Change (Free match 4&4+)

Model		GWH07KF-K3DNA6Q/I	GWH09KF-K3DNA6Q/I	GWH12KF-K3DNA6Q/I	GWH18KG-K3DNA6Q/I	GWH24KG-K3DNA6Q/I
Capacity	Cooling	7200	8880	11940	18000	22007
	Heating	8880	9550	12970	19000	23884
Power supply	PhV/Hz	1Ph,220-240V,50Hz				
Airflow volume	m³/h	550	600	680	800	1000
	CFM	324	353	400	471	588
Sound pressure level(H/M/L/SL)	dB(A)	40/38/30/24	41/38/30/24	42/39/31/25	45/40/37/32	51/47/42/34
Connecting pipe	Gas	3/8(φ9.52)	3/8(φ9.52)	3/8(φ9.52)	1/2(φ12)	5/8 (φ16)
	Liquid	1/4 (φ6)	1/4 (φ6)	1/4 (φ6)	1/4 (φ6)	1/4 (φ6)
Dimension (W×H×D)	Outline	770x283x201	770x283x201	770x283x201	885x305x215	1007x315x219
	Package	847x345x276	847x345x276	847x345x276	946x383x310	1076x398x328
Net weight/Gross weight	kg	8.0/9.5	328	8.0/10.5	12.0/15.0	14/17
Loading quantity	20'GP	set	328	328	264	210
	40'GP/40'HQ	set	688/774	688/774	688/774	542/616

Floor Ceiling Type Indoor Unit (Free match 4)

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	8530	11942	17060	24225.2
	Heating	BTU/h	9553	13136	18766	27296
Power supply	Ph/V/Hz		1Ph,220-240V,50Hz			
Airflow volume	m³/h		650	650	950	1250
	CFM		383	383	559	736
Sound pressure level(H/L)	dB(A)		40/36	40/36	45/40	48/44
Connecting pipe	Gas	inch(mm)	3/8(φ9.52)	3/8(φ9.52)	1/2(φ12.7)	5/8(φ15.88)
	Liquid	inch(mm)	1/4 (φ6.35)	1/4 (φ6.35)	1/4 (φ6.35)	3/8(φ9.52)
Dimension (W×H×D)	Outline	mm	1220×700×225	1220×700×225	1220×700×225	1220×700×225
	Package	mm	1340×820×300	1343×823×315	1340×820×300	1340×820×300
Net weight/Gross weight	kg		40/50	40/50	40/50	45/54
Loading quantity	20'GP	-	66	66	66	66
	40'GP/40'HQ	-	132/132	132/132	132/132	132/132

Cassette Type Indoor Unit (Free match 4)

Model		GKH(12)BA-K3DNA2A/I	GKH(18)BA-K3DNA2A/I	GKH(24)BA-K3DNA1A/I	
Capacity	Cooling	BTU/h	11942	15354	24225
	Heating	BTU/h	13548	17060	27296
Power supply	Ph/V/Hz		1Ph,220-240V,50Hz		
Airflow volume	m³/h		680	600	1180
	CFM		400	353	694
Sound pressure level(H/M/L)	dB(A)		37/35/33	46/44/42	39/37/35
Connecting pipe	Gas	inch(mm)	3/8(φ9.52)	1/2(φ12.7)	5/8(φ15.9)
	Liquid	inch(mm)	1/4 (φ6.35)	1/4 (φ6.35)	3/8(φ9.52)
Main body Panel	Dimension (W×H×D)	Outline	840×840×190	570×570×230	840×840×240
		Package	963×963×273	848×728×310	963×963×325
	Net weight/Gross weight	kg	25/33	18/23	28/35
Panel	Dimension (W×H×D)	Outline	950×950×60	650×650×50	950×950×60
		Package	1043×1028×115	733×673×117	1043×1028×130
	Net Weight/Gross weight	kg	6.5/10	2.5/3.5	6.5/10
Loading quantity	20'GP	-	48	-	40
	40'GP/40'HQ	-	128/144	209/246	108/128

Duct Type Indoor Unit (Free match 4)

Model		GFH(09)EA-K3DNA1A/I	GFH(12)EA-K3DNA1A/I	GFH(18)EA-K3DNA1A/I	GFH(21)EA-K3DNA1A/I	GFH(24)EA-K3DNA1A/I	
Capacity	Cooling	BTU/h	8530	11940	17060	20470	24230
	Heating	BTU/h	9550	13140	18770	22520	27300
Power supply	Ph/V/Hz		1Ph,220-240V,50Hz				
Airflow volume	m³/h		450	550	700	1000	1000
	CFM		264.825	324	411.95	588.5	588.5
Sound pressure level(H/L)	dB(A)		37/31	39/32	41/33	42/34	42/34
Connecting pipe	Gas	inch(mm)	3/8(φ9.52)	3/8(φ9.52)	1/2(φ12.7)	5/8(φ15.88)	5/8(φ15.88)
	Liquid	inch(mm)	1/4 (φ6.35)	1/4 (φ6.35)	1/4 (φ6.35)	3/8(φ9.52)	3/8(φ9.52)
Dimension (W×H×D)	Outline	mm	700×615×200	700×615×200	900×615×200	1100×615×200	1100×615×200
	Package	mm	890×740×290	893×740×290	1120×740×290	1320×740×290	1320×740×290
Net weight/Gross weight	kg		22/27	23/29	27/36	31/41	31/41
Loading quantity	20'GP	-	108	108	90	72	72
	40'GP/40'HQ	-	234/234	234/234	180/180	162/162	162/162

Control System Lineup

Controlling system	Product series		Wall mounted type					Duct type	Cassette type	Floor ceiling type
			Hansol	U-cool	Viola	Lomo	Cozy			
Wireless remote controller	YAA1FB1			●						
	YAG1FB				●					
	YT1F(XFAN)						●			
	YB1F2 (XFAN)							●		
	YN1F1(XFAN)					●				
	YAG1FB		●							
	YT1F(MOTO)							●	●	●
Wired controller	XK19							●	●	●
Centralized controller	CE50-24/E							○	○	○

Note: ● means standard, ○ means optional.

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**



- 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)	DB(°C)	
Cooling	35	24	27	19	18-48 (with low ambient cooling); -15-48(without low ambient cooling)	
Heating	7	6	20	15	-20-24 (with low ambient cooling); -10-24(without low ambient cooling)	

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+21	7+12+18+18	7+7+7+7+7	7+7+9+9+21	9+9+9+12+12	7+7+7+7+7+7
7+21	7+7+9	7+21+21	12+12+12	7+7+7+9	7+7+18+24	9+9+9+9	7+7+7+7+9	7+7+9+12+12	9+9+12+12+12	7+7+7+7+7+9
7+24	7+7+12	7+21+24	12+12+18	7+7+7+12	7+9+9+9	9+9+9+12	7+7+7+7+12	7+7+9+12+18	-	7+7+7+7+7+12
9+12	7+7+18	7+24+24	12+12+21	7+7+7+18	7+9+9+12	9+9+9+18	7+7+7+7+18	7+7+9+12+21	-	7+7+7+7+7+18
9+18	7+7+21	9+9+9	12+12+24	7+7+7+21	7+9+9+18	9+9+9+21	7+7+7+7+21	7+7+12+12+12	-	7+7+7+7+7+21
9+21	7+7+24	9+9+12	12+18+18	7+7+7+24	7+9+9+21	9+9+9+24	7+7+7+7+24	7+7+12+12+18	-	7+7+7+7+7+24
9+24	7+9+9	9+9+18	12+18+21	7+7+9+9	7+9+9+24	9+9+12+12	7+7+7+9+9	7+9+9+9+9	-	7+7+7+7+9+12
12+12	7+9+12	9+9+21	12+18+24	7+7+9+9	7+9+12+12	9+9+12+18	7+7+7+9+12	7+9+9+9+12	-	7+7+7+7+9+18
12+18	7+9+18	9+9+24	12+21+21	7+7+9+12	7+9+12+18	9+9+12+21	7+7+7+9+18	7+9+9+9+18	-	7+7+7+9+9+9
12+21	7+9+21	9+12+12	-	7+7+9+18	7+9+12+21	9+9+12+24	7+7+7+9+21	7+9+9+9+21	-	7+7+7+9+9+12
12+24	7+9+24	9+12+18	-	7+7+9+21	7+9+12+24	9+9+18+18	7+7+7+9+24	7+9+9+12+12	-	7+7+7+9+12+12
18+18	7+12+12	9+12+21	-	7+7+9+24	7+9+18+18	9+12+12+12	7+7+7+12+12	7+9+9+12+18	-	7+7+9+9+9+9
18+21	7+12+18	9+12+24	-	7+7+12+12	7+9+18+21	9+12+12+18	7+7+7+12+18	7+9+12+12+12	-	7+7+9+9+12
18+24	7+12+21	9+18+18	-	7+7+12+18	7+12+12+21	9+12+12+21	7+7+7+12+21	7+12+12+12+12	-	7+7+9+9+12+12
21+21	7+12+24	9+18+21	-	7+7+12+21	7+12+12+18	12+12+12+12	7+7+9+9+9	9+9+9+9+9	-	7+9+9+9+9+9
21+24	7+18+18	9+18+24	-	7+7+12+24	7+12+12+21	12+12+12+18	7+7+9+9+12	9+9+9+9+12	-	7+9+9+9+9+12
24+24	7+18+21	9+21+21	-	7+7+18+18	7+12+12+24	-	7+7+9+9+18	9+9+9+9+18	-	9+9+9+9+9+9

288 Combinations


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


288 Combinations

	Five units				Six units				Seven units				Eight units			
 GWH48S/NK3CO (2 to 8) GWH48S/NM3CO (2 to 8)	7+7+7+7+7	7+7+9+9+12	7+9+9+9+24	9+9+9+12+12	7+7+7+7+7+7	7+7+7+9+9+21	7+9+9+9+21	7+7+7+7+7+7+7	7+9+9+9+12+12	7+7+7+7+7+7+7	7+9+9+9+9+9+9	7+7+7+7+7+7+7+7	7+9+9+9+9+9+9+9	7+7+7+7+7+7+7+7+7		
	7+7+7+7+9	7+7+9+9+18	7+9+9+12+24	9+9+9+12+18	7+7+7+7+7+9	7+7+9+9+24	7+9+9+9+12+12	7+7+7+7+7+7+9	7+9+9+9+9+9+9	7+7+7+7+7+7+9	7+9+9+9+9+9+9	7+7+7+7+7+7+7+9	7+9+9+9+9+9+9+9	7+7+7+7+7+7+7+7+9		
	7+7+7+7+12	7+7+9+9+21	7+9+9+12+18	9+9+9+12+21	7+7+7+7+7+12	7+7+9+9+12+12	7+9+9+9+12+18	7+7+7+7+7+7+12	7+9+9+9+9+9+12	7+7+7+7+7+7+12	7+9+9+9+9+9+12	7+7+7+7+7+7+7+12	7+9+9+9+9+9+9+12	7+7+7+7+7+7+7+7+12		
	7+7+7+7+18	7+7+9+9+24	7+9+9+12+21	9+9+9+12+24	7+7+7+7+7+18	7+7+9+9+12+18	7+9+9+9+12+24	7+7+7+7+7+7+18	7+9+9+9+9+9+18	7+7+7+7+7+7+18	7+9+9+9+9+9+18	7+7+7+7+7+7+7+18	7+9+9+9+9+9+9+18	7+7+7+7+7+7+7+7+18		
	7+7+7+9+21	7+7+9+12+24	7+9+9+12+24	9+9+9+18+18	7+7+7+7+7+21	7+7+9+9+12+18	7+9+12+12+12+12	7+7+7+7+7+7+21	7+9+12+12+12+12	7+7+7+7+7+7+21	7+9+12+12+12+12	7+7+7+7+7+7+7+21	7+9+12+12+12+12	7+7+7+7+7+7+7+7+21		
	7+7+7+9+24	7+7+9+12+18	7+9+9+12+18	9+9+12+12+12	7+7+7+7+7+24	7+7+9+9+12+21	7+9+9+9+9+9	7+7+7+7+7+7+24	7+9+9+9+9+9	7+7+7+7+7+7+24	7+9+9+9+9+9	7+7+7+7+7+7+7+24	7+9+9+9+9+9+9	7+7+7+7+7+7+7+7+24		
	7+7+7+9+9	7+7+9+12+21	7+9+9+18+21	9+9+12+12+12	7+7+7+7+9+9	7+7+9+12+12+12	9+9+9+9+9+12	7+7+7+7+7+9+9	9+9+9+9+9+12	7+7+7+7+7+9+9	9+9+9+9+9+12	7+7+7+7+7+7+9+9	9+9+9+9+9+12	7+7+7+7+7+7+7+9+9		
	7+7+7+9+12	7+7+9+12+24	7+9+12+12+18	9+9+12+12+18	7+7+7+7+9+12	7+7+9+12+12+18	9+9+9+9+9+18	7+7+7+7+7+9+12	9+9+9+9+9+18	7+7+7+7+7+9+12	9+9+9+9+9+18	7+7+7+7+7+7+9+12	9+9+9+9+9+18	7+7+7+7+7+7+7+9+12		
	7+7+7+9+18	7+7+9+18+18	7+9+12+12+18	9+9+12+12+21	7+7+7+7+9+18	7+7+9+18+18	9+9+9+9+9+12+12	7+7+7+7+7+9+18	9+9+9+9+9+12+12	7+7+7+7+7+9+18	9+9+9+9+9+12+12	7+7+7+7+7+7+9+18	9+9+9+9+9+12+12	7+7+7+7+7+7+7+9+18		
	7+7+9+21	7+7+9+18+21	7+9+12+12+21	9+12+12+12+12	7+7+7+7+9+21	7+7+9+9+9+12	9+9+9+12+12+12	7+7+7+7+7+9+21	9+9+9+9+9+12	7+7+7+7+7+9+21	9+9+9+9+9+12	7+7+7+7+7+7+9+21	9+9+9+9+9+12	7+7+7+7+7+7+7+9+21		
	7+7+9+24	7+7+12+12+12	7+9+12+12+24	9+12+12+12+18	7+7+7+7+9+24	7+7+9+9+9+18	-	7+7+7+7+7+9+24	7+7+9+9+9+18	7+7+7+7+7+9+24	7+7+9+9+9+18	-	7+7+7+7+7+7+9+24	7+7+9+9+9+18		
	7+7+9+12+12	7+7+12+12+18	7+12+12+12+12	12+12+12+12+12	7+7+7+7+9+12+12	7+7+9+9+9+21	-	7+7+7+7+7+9+12+12	7+7+9+9+9+21	7+7+7+7+7+9+12+12	7+7+9+9+9+21	-	7+7+7+7+7+7+9+12+12	7+7+9+9+9+21		
	7+7+9+18+18	7+7+12+12+21	7+12+12+12+18	-	7+7+7+7+9+18+18	7+7+9+9+9+12	-	7+7+7+7+7+9+18+18	7+7+9+9+9+12	7+7+7+7+7+9+18+18	7+7+9+9+9+12	-	7+7+7+7+7+7+9+18+18	7+7+9+9+9+12		
	7+7+9+18+21	7+7+12+12+24	7+12+12+12+21	-	7+7+7+7+9+18+21	7+7+9+9+9+18	-	7+7+7+7+7+9+18+21	7+7+9+9+9+18	7+7+7+7+7+9+18+21	7+7+9+9+9+18	-	7+7+7+7+7+7+9+18+21	7+7+9+9+9+18		
	7+7+9+18+24	7+7+12+12+24	7+12+12+12+24	-	7+7+7+7+9+18+24	7+7+9+9+9+24	-	7+7+7+7+7+9+18+24	7+7+9+9+9+24	7+7+7+7+7+9+18+24	7+7+9+9+9+24	-	7+7+7+7+7+7+9+18+24	7+7+9+9+9+24		
	7+7+9+9+9	7+7+9+9+21	7+9+9+9+24	-	7+7+7+9+9+9	7+7+9+9+9+9	-	7+7+7+9+9+9	7+7+9+9+9+9	7+7+7+9+9+9	7+7+9+9+9+9	-	7+7+7+9+9+9	7+7+9+9+9+9		
	7+7+9+9+12	7+7+9+9+18	7+9+9+9+12	-	7+7+7+9+9+12	7+7+9+9+9+12	-	7+7+7+9+9+12	7+7+9+9+9+12	7+7+7+9+9+12	7+7+9+9+9+12	-	7+7+7+9+9+12	7+7+9+9+9+12		
	7+7+9+9+18	7+7+9+9+24	7+9+9+9+18	-	7+7+7+9+9+18	7+7+9+9+9+18	-	7+7+7+9+9+18	7+7+9+9+9+18	7+7+7+9+9+18	7+7+9+9+9+18	-	7+7+7+9+9+18	7+7+9+9+9+18		
	7+7+9+9+24	7+7+9+9+24	7+9+9+9+24	-	7+7+7+9+9+24	7+7+9+9+9+24	-	7+7+7+9+9+24	7+7+9+9+9+24	7+7+7+9+9+24	7+7+9+9+9+24	-	7+7+7+9+9+24	7+7+9+9+9+24		

	Six units			Seven units			Eight units			Nine units		
 GWH66S/NK3CO (2 to 9) GWH66S/NM3CO (2 to 9)	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+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+9+9+9+9	7+7+7+7+7+7+7+7	7+7+7+9+9+9+9	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+18	7+7+7+7+7+7+9	7+7+7+9+9+9+18	7+7+7+7+7+7+7+9	7+7+7+9+9+9+18	7+7+7+7+7+7+7+9	7+7+7+9+9+9+18	7+7+7+7+7+7+7+9
	7+9+12+12+12+12	12+12+12+12+12+12	7+7+7+7+7+7+12	7+7+7+7+9+12+12	7+7+9+9+9+21	7+7+7+7+7+7+12	7+7+7+9+9+9+12	7+7+7+7+7+7+7+12	7+7+7+9+9+9+21	7+7+7+7+7+7+7+12	7+7+7+9+9+9+12	7+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+12+18	7+7+9+9+9+12	7+7+7+7+7+7+18	7+7+7+9+9+9+12	7+7+7+7+7+7+7+18	7+7+7+9+9+9+12	7+7+7+7+7+7+7+18	7+7+7+9+9+9+12	7+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+12+21	7+7+9+9+9+12	7+7+7+7+7+7+21	7+7+7+9+9+9+12	7+7+7+7+7+7+7+21	7+7+7+9+9+9+12	7+7+7+7+7+7+7+21	7+7+7+9+9+9+12	7+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+24	7+7+9+9+9+12	7+7+7+7+7+7+24	7+7+7+9+9+9+12	7+7+7+7+7+7+7+24	7+7+7+9+9+9+12	7+7+7+7+7+7+7+24	7+7+7+9+9+9+12	7+7+7+7+7+7+7+24
	9+9+9+9+12	-	7+7+7+7+7+7+9	7+7+7+7+9+9+9	7+7+9+9+9+12	7+7+7+7+7+7+9	7+7+7+9+9+9+12	7+7+7+7+7+7+7+9	7+7+7+9+9+9+12	7+7+7+7+7+7+7+9	7+7+7+9+9+9+12	7+7+7+7+7+7+7+9
	9+9+9+9+18	-	7+7+7+7+7+7+12	7+7+7+7+9+9+12	7+7+9+9+9+12	7+7+7+7+7+7+12	7+7+7+9+9+9+12	7+7+7+7+7+7+7+12	7+7+7+9+9+9+12	7+7+7+7+7+7+7+12	7+7+7+9+9+9+12	7+7+7+7+7+7+7+12
	9+9+9+9+21	-	7+7+7+7+7+7+18	7+7+7+7+9+9+18	7+7+9+9+9+12	7+7+7+7+7+7+18	7+7+7+9+9+9+12	7+7+7+7+7+7+7+18	7+7+7+9+9+9+12	7+7+7+7+7+7+7+18	7+7+7+9+9+9+12	7+7+7+7+7+7+7+18
	9+9+9+9+24	-	7+7+7+7+7+7+21	7+7+7+7+9+9+21	7+7+9+9+9+12	7+7+7+7+7+7+21	7+7+7+9+9+9+12	7+7+7+7+7+7+7+21	7+7+7+9+9+9+12	7+7+7+7+7+7+7+21	7+7+7+9+9+9+12	7+7+7+7+7+7+7+21
	9+9+9+9+12+18	-	7+7+7+7+7+7+24	7+7+7+7+9+9+24	7+7+9+9+9+12	7+7+7+7+7+7+24	7+7+7+9+9+9+12	7+7+7+7+7+7+7+24	7+7+7+9+9+9+12	7+7+7+7+7+7+7+24	7+7+7+9+9+9+12	7+7+7+7+7+7+7+24
	9+9+9+9+12+21	-	7+7+7+7+7+7+9	7+7+7+7+9+9+9	7+7+9+9+9+12	7+7+7+7+7+7+9	7+7+7+9+9+9+12	7+7+7+7+7+7+7+9	7+7+7+9+9+9+12	7+7+7+7+7+7+7+9	7+7+7+9+9+9+12	7+7+7+7+7+7+7+9
	9+9+9+9+18+18	-	7+7+7+7+7+7+12	7+7+7+7+9+9+12	7+7+9+9+9+12	7+7+7+7+7+7+12	7+7+7+9+9+9+12	7+7+7+7+7+7+7+12	7+7+7+9+9+9+12	7+7+7+7+7+7+7+12	7+7+7+9+9+9+12	7+7+7+7+7+7+7+12
	9+9+9+9+21+24	-	7+7+7+7+7+7+18	7+7+7+7+9+9+18	7+7+9+9+9+12	7+7+7+7+7+7+18	7+7+7+9+9+9+12	7+7+7+7+7+7+7+18	7+7+7+9+9+9+12	7+7+7+7+7+7+7+18	7+7+7+9+9+9+12	7+7+7+7+7+7+7+18
	9+9+9+9+12+24	-	7+7+7+7+7+7+21	7+7+7+7+9+9+21	7+7+9+9+9+12	7+7+7+7+7+7+21	7+7+7+9+9+9+12	7+7+7+7+7+7+7+21	7+7+7+9+9+9+12	7+7+7+7+7+7+7+21	7+7+7+9+9+9+12	7+7+7+7+7+7+7+21
	9+9+9+9+18+24	-	7+7+7+7+7+7+24	7+7+7+7+9+9+24	7+7+9+9+9+12	7+7+7+7+7+7+24	7+7+7+9+9+9+12	7+7+7+7+7+7+7+24	7+7+7+9+9+9+12	7+7+7+7+7+7+7+24	7+7+7+9+9+9+12	7+7+7+7+7+7+7+24
	9+9+9+12+12+12	-	7+7+7+7+7+7+9	7+7+7+7+9+9+9	7+7+9+9+9+12	7+7+7+7+7+7+9	7+7+7+9+9+9+12	7+7+7+7+7+7+7+9	7+7+7+9+9+9+12	7+7+7+7+7+7+7+9	7+7+7+9+9+9+12	7+7+7+7+7+7+7+9
	9+9+9+12+12+18	-	7+7+7+7+7+7+12	7+7+7+7+9+9+12	7+7+9+9+9+12	7+7+7+7+7+7+12	7+7+7+9+9+9+12	7+7+7+7+7+7+7+12	7+7+7+9+9+9+12	7+7+7+7+7+7+7+12	7+7+7+9+9+9+12	7+7+7+7+7+7+7+12
	9+9+9+12+12+21	-	7+7+7+7+7+7+18	7+7+7+7+9+9+18	7+7+9+9+9+12	7+7+7+7+7+7+18	7+7+7+9+9+9+12	7+7+7+7+7+7+7+18	7+7+7+9+9+9+12	7+7+7+7+7+7+7+18	7+7+7+9+9+9+12	7+7+7+7+7+7+7+18
	9+9+9+12+12+24	-	7+7+7+7+7+7+21	7+7+7+7+9+9+21	7+7+9+9+9+12	7+7+7+7+7+7+21	7+7+7+9+9+9+12	7+7+7+7+7+7+7+21	7+7+7+9+9+9+12	7+7+7+7+7+7+7+21	7+7+7+9+9+9+12	7+7+7+7+7+7+7+21

448 Combinations

	Two units		Three units			Four units						
 GWH66S/NK3CO (2 to 9) GWH66S/NM3CO (2 to 9)	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+18	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+21
	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+21+24	7+9+21+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+7+24+24	7+9+24+24	7+18+24+24	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+9+9+9	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	-

	Five units				Six units			
 GWH66S/NK3CO (2 to 9) GWH66S/NM3CO (2 to 9)	7+7+7+7+7	7+7+9+9+9	7+7+12+21+21	7+9+12+12+24	9+9+9			

Wall Mounted Indoor Unit

U-Cool

Model			GWH(07)UA-K3DNA1B1	GWH(09)UA-K3DNA1B1	GWH(12)UB-K3DNA1B1	GWH(18)UC-K3DNA1B1
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	m ³ /h		450	560	560	850
	CFM		265	265	329	500
Sound pressure level (SHH/MH/MLL/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	696/740	696/740	585/650	440/495

Cozy

Model			GWH(07)MA-K3DNA3E1	GWH(09)MA-K3DNA3E1	GWH(12)MB-K3DNA3E1	GWH(18)MC-K3DNA3E1
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	m ³ /h		450	500	630	850
	CFM		265	294	371	500
Sound pressure level (SHH/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	1013X286X395
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-K3DNA6E1	GWH(09)KF-K3DNA6E1	GWH(12)KF-K3DNA6E1	GWH(18)KG-K3DNA6E1
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	m ³ /h		550	600	680	800
	CFM		324	353	400	471
Sound pressure level (SHH/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	264	264
	40' GP/40' HQ	set	696/763	696/763	696/763	542/616

Hansol

Model			GWH(07)TA-K3DNA1E1	GWH(09)TA-K3DNA1E1	GWH(12)TB-K3DNA1E1	GWH(18)TC-K3DNA1E1
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	m ³ /h		550	550	770	950
	CFM		324	324	430	559
Sound pressure level (SHH/MH/MLL/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	808X209X292	808X209X292	866X209X292	1018X230X319
	Package	mm	888X297X377	888X297X377	945X297X377	1097X397X440
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-K3DNA3E1	GWH(09)RA-K3DNA3E1	GWH(12)RB-K3DNA3E1	GWH(18)RC-K3DNA3E1	GWH(24)RC-K3DNA3E1
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	m ³ /h		500	500	630	850	1000
	CFM		294	294	371	500	588
Sound pressure level (SHH/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-K3DNA1A1	GFH(12)EA-K3DNA1A1	GFH(18)EA-K3DNA1A1	GFH(21)EA-K3DNA1A1	GFH(24)EA-K3DNA1A1
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	m ³ /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	800X200X615	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-K3DNA2A1	GKH(18)BA-K3DNA2A1	GKH(12)BA-K3DNA1A1	GKH(18)BA-K3DNA1A1	GKH(24)BA-K3DNA1A1
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	m ³ /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)	Outline	mm	570x230x570	570x230x570	840x190x840	840x190x840
		Package	mm	851x325x731	851x325x731	960x273x963	960x273x963
	Net weight/Gross weight	kg	18/23	18/23	25/33	25/33	28/35
		Package	mm	650x50x650	650x50x650	950x60x950	950x60x950
Panel	Dimension (WxHxD)	Outline	mm	733x117x673	733x117x673	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	208/246	208/246	128/144	128/144

Floor Ceiling Type Indoor Unit

Model			GTH(09)BA-K3DNA1A1	GTH(12)BA-K3DNA1A1	GTH(18)BA-K3DNA1A1	GTH(24)BA-K3DNA1A1
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	m ³ /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(16)AA-K3DNA1C/I		
Capacity	Cooling	BTU/h	8874	11946	18089					
	Heating	BTU/h	9556	12969	19795					
Power supply		PhV/Hz	1/220-240/50	1/220-240/50	1/220-240/50					
Airflow volume		m ³ /h	650	750	840					
		CFM	382.3529412	441	494					
Sound pressure level (SHH/MHM/MLL/SL)		dB(A)	40/38/36/33/30/27/25	42/40/38/37/35/32/25	48/46/44/41/37/35/32					
Connecting pipe	Gas	inch(mm)	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)					
Dimension(WxHxD)	Outline	mm	700X800X215	700X800X215	700X800X215					
	Package	mm	791X710X286	791X710X286	791X710X286					
Net weight/Gross weight		kg	15/18	15/18	15/18					
Loading quantity	20'GP	set	168	168	168					
	40' GP/40' HQ	set	348/440	348/440	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.

All DC Inverter VRF Air Conditioning System

Gree GMV5 All DC Inverter VRF adopts high-efficient DC inverter compressor and DC inverter fan motor. The unit can be combined modularly from 8HP to 88HP. Maximum capacity can up to 180kW.

GMV5 Mini



GMV5 Slim



GMV5



- 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 82Pa.

	Max. piping length (meter)		
	GMV5 Mini	GMV5 Slim	GMV5
Total piping length	300m	300m	1000m
Actual piping length	120m	100m	165m
Equivalent piping length	150m	120m	190m
Height difference between indoor units	15m	10m	30m
Height difference between ODU and IDU (ODU is located above the IDU)	50m	50m	90m
Height difference between ODU and IDU (IDU is located above the ODU)	40m	40m	90m
Piping length from first indoor branch to the farthest IDU	40m	40m	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	GMV5 Mini	GMV5 Slim	GMV5
Heating	7	6	20	-	-5-48	-5-50	-5-52
					-20-27	-20-27	-20-24

Outdoor Units Lineup

GMV5 Mini

HP	Model	Product Outlook
4	GMV-120WL/A-T	
5	GMV-140WL/A-T	
6	GMV-160WL/A-T	

GMV5 Slim

HP	Model	Product Outlook
7	GMV-H200WL/A-X	
8	GMV-H224WL/A-X	
9	GMV-H250WL/A-X	
10	GMV-H280WL/A-X	
11	GMV-H308WL/A-X	
12	GMV-H335WL/A-X	

Specifications of Outdoor Units

GMV5 Mini 50/60 Hz

Model		GMV-120WL/A-T ¹	GMV-140WL/A-T ¹	GMV-160WL/A-T ¹
Capacity range	HP	4	5	6
Capacity	Cooling	kW	12.1	14
	Heating	kW	14	16.5
EER	W/W	3.97	3.52	3.3
COP	W/W	4.28	4.14	3.96
Power supply	V/Ph/Hz	220~240V-1Ph-50Hz&208~230V-1Ph-60Hz		
Max. Circuit/Fuse Current	A	28.1/32	31.8/32	33.8/40
Power consumption	Cooling	kW	3.05	3.98
	Heating	kW	3.27	3.99
Maximum drive IDU NO.	unit	7	8	9
Refrigerant Charge volume	kg	5	5	5
Sound pressure level	dB(A)	55	56	58
Connecting pipe	Liquid	mm	Φ9.52	
	Gas	mm	Φ15.87	
Dimension (W*D*H)	Outline	mm	900*340*1345	
	Package	mm	998*458*1515	
Net weight/Gross weight	kg	110/120	110/120	110/120
Loading quantity	40' GP	set	57	57
	40' HQ	set	57	57

*1. This series outdoor unit cannot match with US air handler, fresh air processing unit and high static ESP duct type unit.

GMV5 Slim 50/60 Hz

Model		GMV-H200WL/A-X ¹	GMV-H224WL/A-X ¹	GMV-H250WL/A-X ¹	GMV-H280WL/A-X ¹	GMV-H308WL/A-X ¹	GMV-H335WL/A-X ¹
Capacity range	HP	7	8	9	10	11	12
Capacity	Cooling	kW	20.0	22.4	24.5	28.0	30.8
	Heating	kW	22.4	25.0	26.0	31.5	33.9
EER	W/W	3.1	3.1	3.1	2.97	2.99	3.04
COP	W/W	4.0	4.1	3.7	3.66	3.53	3.60
IPLV	Cooling	kW/kW	6.1	6.1	6.0	6.0	6.0
Power supply	V/Ph/Hz	380-415~3Ph-50/60Hz					
Max. Circuit/Fuse Current	A	25	25	25	25	25	25
Power consumption	Cooling	kW	6.5	7.2	8.0	9.4	10.3
	Heating	kW	5.6	6.1	7.0	8.6	9.6
Maximum drive IDU NO.	unit	12	13	15	17	18	20
Refrigerant Charge volume	kg	5.5	5.5	6.0	7.5	8.0	8.0
Sound pressure level	Cooling	dB(A)	57	58	59	59	60
	Heating	dB(A)	58	59	60	60	61
Connecting pipe	Liquid	mm	Φ9.52		Φ12.7		Φ12.7
	Gas	mm	Φ19.05		Φ25.4		Φ25.4
Dimension (W*D*H)	Outline	mm	940*320*1430		940*460*1615		940*460*1615
	Package	mm	1033*433*1580		1033*573*1765		1033*573*1765
Net weight/Gross weight	kg	133/144	133/144	133/144	160/175	165/180	175/185
Loading quantity	40' GP	set	54	54	54	44	44
	40' HQ	set	54	54	54	44	44

Note:
 ① Testing conditions of rated cooling capacity: indoor 27°CDB/19°CWB, outdoor 35°CDB, connection pipe length of 5m, no height difference between units.
 ② Testing conditions of rated heating capacity: indoor 20°CDB, outdoor 7°CDB/6°CWB, connection pipe length of 5m, no height difference between units.
 ③ The total indoor unit capacity shall be within 50% to 130% of outdoor unit capacity. Correction of other parameters can be referred to the unit capacity correction sheet.
 ④ The above-mentioned parameters are tested with standard connection pipe length. In actual engineering, please arrange correction according to the capacity correction with long connection pipe.

*2. This product is under development. The parameters are estimated, please refer to the value on the nameplate.

GMV5 50/60 Hz

Model		GMV-224WM/B-X	GMV-280WM/B-X	GMV-335WM/B-X	GMV-400WM/B-X	GMV-450WM/B-X	GMV-504WM/B-X ¹	GMV-560WM/B-X ¹	GMV-615WM/B-X ¹
Capacity range	HP	8	10	12	14	16	18	20	22
Capacity	Cooling	kW	22.4	28	33.5	40	45	50.4	56
	Heating	kW	25	31.5	37.5	45	50	56	63
EER	W/W	4.31	4	3.98	3.76	3.56	3.38	2.97	2.75
COP	W/W	4.55	4.32	4.17	4.05	3.85	3.84	3.6	3.16
Power supply	V/Ph/Hz	380-415V-3Ph-50/60Hz							
Max. Circuit/Fuse Current	A	15.7/20	20.9/25	24.7/32	28.8/40	33.2/40	36.8/40	43.8/50	48.9/50
Power consumption	Cooling	kW	5.2	7	8.41	10.65	12.65	14.9	16.9
	Heating	kW	5.5	7.3	9	11.1	13	14.6	17.5
Maximum drive IDU NO.	unit	13	16	19	23	26	31	34	38
Refrigerant Charge volume	kg	5.9	6.7	8.2	9.8	10.3	12.7	13	13.5
Sound pressure level	dB(A)	60	61	63	63	63	65	66	66
Connecting pipe	Liquid	mm	Φ9.52		Φ12.7		Φ15.9		
	Gas	mm	Φ19.05		Φ22.2		Φ25.4		Φ28.6
	Oil balance	mm	Φ9.52		Φ9.52		Φ9.52		
Dimension (W*D*H)	Outline	mm	930*765*1605		1340*765*1605		1340*765*1740		
	Package	mm	1010*840*1775		1420*840*1775		1420*840*1910		
Net weight/Gross weight	kg	225/235	225/235	285/300	360/375	360/375	400/415	400/415	400/415
Loading quantity	40' GP	set	24	24	16	16	16	16	16
	40' HQ	set	24	24	16	16	16	16	16

Note:

*1. This product is under development. The parameters are estimated, please refer to the value on the nameplate.

ODU Combination Lineup-GMV5

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

Specifications of ODU Combination

50/60 Hz

Model	Power Supply	Cooling Capacity		Power Input		Dimension(W*D*H) mm	Airflow Volume m³/h	ESP Pa	Noise dB(A)	Noise dB(A)	Connecting pipe diameter		Min. Discharge Pipe mm	Min. Discharge mm	Min. Discharge mm	Weight kg
		Cooling	Heating	Cooling	Heating						Liquid	Gas				
		kW	kW	kW	kW						mm	mm				
GMV-504WMB-X	380-415V-3Ph-50/60Hz	50.4	56.5	12.2	12.8	2x(930x765x1605)	2x11400	0-82	64	45	Φ15.9	Φ28.6	Φ9.52	36.6	40	225x2
GMV-560WMB-X		56	62.5	14	14.6	2x(930x765x1605)	2x11400	0-82	64	45	Φ15.9	Φ28.6	Φ9.52	41.8	50	225x2
GMV-615WMB-X		61.5	69	15.41	16.3	(930x765x1605)+(1340x765x1605)	11400+14000	0-82	65	45	Φ15.9	Φ28.6	Φ9.52	49.7	50	285x225
GMV-680WMB-X		68	76.5	17.65	18.4	(930x765x1605)+(1340x765x1605)	11400+14000	0-82	65	45	Φ15.9	Φ28.6	Φ9.52	54.1	63	225x360
GMV-730WMB-X		73	81.5	19.65	20.3	(930x765x1605)+(1340x765x1605)	11400+14000	0-82	65	45	Φ19.05	Φ31.8	Φ9.52	57.9	63	225x360
GMV-785WMB-X		78.5	87.5	21.06	22	2x(1340x765x1605)	2x14000	0-82	66	45	Φ19.05	Φ31.8	Φ9.52	66.1	80	285x360
GMV-850WMB-X		85	95	23.3	24.1	2x(1340x765x1605)	2x14000	0-82	66	45	Φ19.05	Φ31.8	Φ9.52	66.4	80	360x2
GMV-900WMB-X		90	100	25.3	26	2x(1340x765x1605)	2x14000	0-82	66	45	Φ19.05	Φ31.8	Φ9.52	66.5	80	360x2
GMV-960WMB-X		96	106	24.65	25.7	2x(930x765x1605)+(1340x765x1605)	2x11400+14000	0-82	67	45	Φ19.05	Φ31.8	Φ9.52	70.6	80	225x2x360
GMV-1010WMB-X		101	113	26.65	27.6	2x(930x765x1605)+(1340x765x1605)	2x11400+14000	0-82	67	45	Φ19.05	Φ38.1	Φ9.52	76	80	225x2x360
GMV-1065WMB-X		106.5	119	28.06	29.3	(930x765x1605)+2x(1340x765x1605)	11400+2x14000	0-82	67	45	Φ19.05	Φ38.1	Φ9.52	78.8	100	225x285x360
GMV-1130WMB-X		113	126.5	30.3	31.4	(930x765x1605)+2x(1340x765x1605)	11400+2x14000	0-82	67	45	Φ19.05	Φ38.1	Φ9.52	82.9	100	225x360x2
GMV-1180WMB-X		118	131.5	32.3	33	(930x765x1605)+2x(1340x765x1605)	11400+2x14000	0-82	67	45	Φ19.05	Φ38.1	Φ9.52	87.3	100	225x360x2
GMV-1235WMB-X		123.5	137.5	33.71	35	3x(1340x765x1605)	3x14000	0-82	68	45	Φ19.05	Φ38.1	Φ9.52	91.1	125	285x360x2
GMV-1300WMB-X		130	145	35.95	37.1	3x(1340x765x1605)	3x14000	0-82	68	45	Φ19.05	Φ38.1	Φ9.52	95.2	125	360x3
GMV-1350WMB-X		135	150	37.95	39	3x(1340x765x1605)	3x14000	0-82	68	45	Φ19.05	Φ38.1	Φ9.52	99.6	125	360x3
GMV-1410WMB-X		141	156	37.3	38.7	2x(930x765x1605)+2x(1340x765x1605)	2x11400+2x14000	0-82	69	47	Φ22.2	Φ44.5	Φ9.52	103.8	125	225x2+360x2
GMV-1460WMB-X		146	163	39.3	40.6	2x(930x765x1605)+2x(1340x765x1605)	2x11400+2x14000	0-82	69	47	Φ22.2	Φ44.5	Φ9.52	108.2	125	225x2+360x2
GMV-1515WMB-X		151.5	169	40.71	42.3	(930x765x1605)+3x(1340x765x1605)	11400+3x14000	0-82	69	47	Φ22.2	Φ44.5	Φ9.52	112	125	225x285+360x2
GMV-1580WMB-X		158	176.5	42.95	44.4	(930x765x1605)+3x(1340x765x1605)	11400+3x14000	0-82	69	47	Φ22.2	Φ44.5	Φ9.52	116.1	125	225x360x3
GMV-1630WMB-X	163	181.5	44.95	46.3	(930x765x1605)+3x(1340x765x1605)	11400+3x14000	0-82	69	49	Φ22.2	Φ44.5	Φ9.52	120.5	160	225x360x3	
GMV-1685WMB-X	168.5	187.5	46.36	48	4x(1340x765x1605)	4x14000	0-82	70	49	Φ22.2	Φ44.5	Φ9.52	124.3	160	285x360x3	
GMV-1750WMB-X	175	195	48.6	50.1	4x(1340x765x1605)	4x14000	0-82	70	49	Φ22.2	Φ44.5	Φ9.52	128.4	160	360x4	
GMV-1800WMB-X	180	200	50.6	52	4x(1340x765x1605)	4x14000	0-82	70	49	Φ22.2	Φ44.5	Φ9.52	132.8	160	360x4	

Specifications of Indoor Units

Type of indoor unit	Specification	22	25	28	32	36	40	45	50	56	63	71	72	80	90	100	112	125	140	160	224	280	450	
High Static Pressure Duct Type Unit										•	•	•		•	•	•	•	•	•	•	•	•	•	•
Low Static Pressure Duct Type Unit		•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•				
Slim Ducted Type Indoor Unit		•	•	•	•	•	•	•	•	•	•	•	•											
4-way Cassette Unit					•	•	•	•	•	•	•	•		•	•	•	•	•	•	•				
Compact 4-way Cassette Indoor Unit		•	•	•	•	•	•	•	•	•	•													
2-way Cassette Indoor Unit				•	•	•	•	•	•	•	•	•												
1-way Cassette Unit		•	•	•	•	•	•	•	•	•	•	•												
Wall-mounted Type Unit		•	•	•	•	•	•	•	•	•	•	•												
Floor Ceiling Type Indoor Unit				•	•	•	•	•	•	•	•	•			•		•	•	•					
Console Indoor Unit		•	•	•	•	•	•	•	•															
Floor Standing Type Indoor Unit																•					•			
Fresh Air Processing Indoor Unit																					•	•	•	•

Duct Type Indoor Unit

High ESP Series



Low ESP Series



Washable filter



Easier maintainability



High ESP



Auto addressing technology



Slave and master wired controller



Centralized control



Quality motor

High Static Pressure Duct Type Indoor Unit

50/60 Hz

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	V/Ph/Hz	220-240/1/50 & 208-230/1/60				
Power consumption	W	120	120	130	130	200
Airflow volume(H/M/L)	m ³ /h	1000/800/600	1000/800/600	1100/900/700	1100/900/700	1700/1450/1100
	CFM	590/471/355	590/471/355	650/530/410	650/530/410	1000/853/650
Rated Current ¹	Cooling A	0.6	0.6	0.6	0.6	1.0
	Heating A	0.6	0.6	0.6	0.6	1.0
	Water Heating A	/	/	/	/	/
ESP	Pa	70/0-100				
Sound pressure level(H/M/L)	dB(A)	44/40/36	44/40/36	45/41/37	45/41/37	46/44/42
Connecting pipe diameter	Liquid mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9
Drain pipe	External dia. mm	Φ25	Φ25	Φ25	Φ25	Φ25
	Thickness mm	2.5	2.5	2.5	2.5	2.5
Dimension (WxDxH)	Outline mm	1271x558x268				
	Package mm	1348x597x283				
Net weight/Gross weight	kg	35/40	35/40	35/40	35/40	47/54
Loading	40' GP set	192	192	192	192	128
	40' HQ set	216	216	216	216	128

Model		GMV-ND100PHS/A-T	GMV-ND112PHS/A-T	GMV-ND125PHS/A-T	GMV-ND140PHS/A-T	GMV-ND160PHS/A-T	GMV-ND224PH/A-T	GMV-ND280PH/A-T	
Capacity	Cooling kW	10.0	11.2	12.5	14.0	16.0	22.4	28.0	
	Heating kW	11.2	12.5	14.0	16.0	18.0	25.0	31.0	
Power supply	V/Ph/Hz	220-240/1/50 & 208-230/1/60					220-240/1/50/60	220-240/1/50 & 208-230/1/60	
Power consumption	W	200	200	220	220	560	800	900	
Airflow volume(H/M/L)	m ³ /h	1700/1450/1100	1700/1450/1100	2000/1550/1200	2000/1700/1400	3100	4000	4400	
	CFM	1000/853/650	1000/853/650	1175/912/706	1175/1000/824	1824	2355	2590	
Rated Current ¹	Cooling A	1.0	1.0	1.0	1.0	4	4.1	4.8	
	Heating A	1.0	1.0	1.0	1.0	4	4.1	4.6	
	Water Heating A	/	/	/	/	/	/	/	
ESP	Pa	70/0-100					50	150/50-200	150/50-200
Sound pressure level(H/M/L)	dB(A)	46/44/42	46/44/42	48/45/42	48/46/44	55.0	54.0	55.0	
Connecting pipe diameter	Liquid mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	
	Gas mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ19	Φ19.05	Φ22.2	
Drain pipe	External dia. mm	Φ25	Φ25	Φ25	Φ25	Φ30	Φ30	Φ30	
	Thickness mm	2.5	2.5	2.5	2.5	1.5	1.5	1.5	
Dimension (WxDxH)	Outline mm	1229x775x290					1497x799x389	1483x791x385	1688x870x450
	Package mm	1338x877x305					1578x883x400	1758x883x470	1788x988x580
Net weight/Gross weight	kg	47/54	47/54	47/54	47/54	79/103	82/104	105/140	
Loading	40' GP set	128	128	128	128	75	65	52	
	40' HQ set	128	128	128	128	75	65	52	

Low Static Pressure Duct Type Indoor Unit

50/60 Hz

Model			GMV-ND22PLS/A-T	GMV-ND25PLS/A-T	GMV-ND28PLS/A-T	GMV-ND32PLS/A-T	GMV-ND36PLS/A-T
Capacity	Cooling	KW	2.2	2.5	2.8	3.2	3.6
	Heating	kW	2.5	2.8	3.6	3.6	4.0
Power supply	V/Ph/Hz		220-240/1/50 & 208-230/1/60				
Power consumption	W		35	35	35	43	43
Airflow volume(H/M/L)	m ³ /h		450/350/250	450/350/250	450/350/250	550/450/350	550/450/350
	CFM		265/206/147	265/206/147	265/206/147	325/265/206	325/265/206
Rated Current ²	Cooling	A	0.2	0.2	0.2	0.2	0.2
	Heating	A	0.2	0.2	0.2	0.2	0.2
	Water Heating	A	/	/	/	/	/
ESP	Pa		15/0-30				
Sound pressure level(H/M/L)	dB(A)		31/28/25	31/28/25	31/28/25	32/30/27	32/30/27
Connecting pipe diameter	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35
	Gas	mm	Φ9.52	Φ9.52	Φ9.52	Φ12.7	Φ12.7
Drain pipe	External dia.	mm	25	25	25	25	25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5
Dimension (WxDxH)	Outline	mm	700 x 615 x 200				
	Package	mm	893x743x305				
Net weight/Gross weight	kg		22/27	22/27	22/27	22/28	22/28
Loading	40' GP	set	192	192	192	192	192
	40' HQ	set	192	192	192	192	192

Slim Ducted Type Indoor Unit

50/60 Hz

Model			GMV-ND22PLB-T*	GMV-ND25PLB-T*	GMV-ND28PLB-T*	GMV-ND32PLB-T*	GMV-ND36PLB-T*
Capacity	Cooling	KW	2.2	2.5	2.8	3.2	3.6
	Heating	kW	2.5	2.8	3.2	3.6	4.0
Power supply	V/Ph/Hz		220-240/1/50 & 208-230/1/60				
Power consumption	W		25	25	25	30	30
Airflow volume(H/M/L)	m ³ /h		450/400/320	450/400/320	450/400/320	550/450/340	550/450/340
	CFM		265/235/188	265/235/188	265/235/188	324/265/200	324/265/200
Rated Current ²	Cooling	A	0.2	0.2	0.2	0.3	0.3
	Heating	A	0.2	0.2	0.2	0.3	0.3
	Water Heating	A	/	/	/	/	/
ESP	Pa		0/15				
Sound pressure level(H/M/L)	dB(A)		30/28/22	30/28/22	30/28/22	31/29/25	31/29/25
Connecting pipe diameter	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35
	Gas	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ12.7
Drain pipe	External dia.	mm	25	25	25	25	25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5
Dimension (WxDxH)	Outline	mm	710x450x200				
	Package	mm	1003x551x285				
Net weight/Gross weight	kg		18.5/22	18.5/22	18.5/22	19.5/23	19.5/23
Loading	40' GP	set	352	352	352	352	352
	40' HQ	set	352	352	352	352	352

Model			GMV-ND40PLS/A-T	GMV-ND45PLS/A-T	GMV-ND50PLS/A-T	GMV-ND56PLS/A-T	GMV-ND63PLS/A-T
Capacity	Cooling	KW	4.0	4.5	5.0	5.6	6.3
	Heating	kW	4.5	5.0	5.6	6.3	7.1
Power supply	V/Ph/Hz		220-240/1/50 & 208-230/1/60				
Power consumption	W		52	52	52	99	99
Airflow volume(H/M/L)	m ³ /h		700/600/450	700/600/450	700/600/450	1000/800/600	1000/800/600
	CFM		410/355/265	410/355/265	410/355/265	590/471/355	590/471/355
Rated Current ²	Cooling	A	0.3	0.3	0.3	0.5	0.5
	Heating	A	0.3	0.3	0.3	0.5	0.5
	Water Heating	A	/	/	/	/	/
ESP	Pa		15/0-30				
Sound pressure level(H/M/L)	dB(A)		33/31/28	33/31/28	33/31/28	35/33/30	35/33/30
Connecting pipe diameter	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52
	Gas	mm	Φ12.7	Φ12.7	Φ12.7	Φ15.9	Φ15.9
Drain pipe	External dia.	mm	25	25	25	25	25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5
Dimension (WxDxH)	Outline	mm	900 x 615 x 200				
	Package	mm	1123x743x305				
Net weight/Gross weight	kg		27/33	27/33	27/33	31/38	31/38
Loading	40' GP	set	192	192	192	162	162
	40' HQ	set	192	192	192	162	162

Model			GMV-ND40PLB-T*	GMV-ND45PLB-T*	GMV-ND50PLB-T*	GMV-ND56PLB-T*	GMV-ND63PLB-T*	GMV-ND72PLB-T*
Capacity	Cooling	KW	4.0	4.5	5.0	5.6	6.3	7.2
	Heating	kW	4.5	5.0	5.6	6.3	7.0	8.0
Power supply	V/Ph/Hz		220-240/1/50 & 208-230/1/60					
Power consumption	W		35	35	35	45	45	50
Airflow volume(H/M/L)	m ³ /h		750/660/540	750/660/540	750/660/540	850/700/610	850/700/610	1100/800/640
	CFM		441/388/318	441/388/318	441/388/318	500/412/359	500/412/359	647/471/377
Rated Current ²	Cooling	A	0.3	0.3	0.3	0.3	0.3	0.5
	Heating	A	0.3	0.3	0.3	0.3	0.3	0.5
	Water Heating	A	/	/	/	/	/	/
ESP	Pa		0/15					
Sound pressure level(H/M/L)	dB(A)		33/30/27	33/30/27	33/30/27	35/33/29	35/33/29	37/34/30
Connecting pipe diameter	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ12.7	Φ12.7	Φ12.7	Φ15.9	Φ15.9	Φ15.9
Drain pipe	External dia.	mm	25	25	25	25	25	25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5
Dimension (WxDxH)	Outline	mm	1010x450x200					
	Package	mm	1303x551x285					
Net weight/Gross weight	kg		23.5/28	23.5/28	23.5/28	24.5/29	24.5/29	30.5/36
Loading	40' GP	set	288	288	288	288	288	224
	40' HQ	set	288	288	288	288	288	224

Note:
* This series is without water pump.

Model			GMV-ND71PLS/A-T	GMV-ND80PLS/A-T	GMV-ND90PLS/A-T	GMV-ND100PLS/A-T	GMV-ND112PLS/A-T	GMV-ND125PLS/A-T	GMV-ND140PLS/A-T
Capacity	Cooling	KW	7.1	8.0	9.0	10.0	11.2	12.5	14.0
	Heating	kW	8.0	9.0	10.0	11.2	12.5	14.0	16.0
Power supply	V/Ph/Hz		220-240/1/50 & 208-230/1/60						
Power consumption	W		105	140	209	209	209	230	230
Airflow volume(H/M/L)	m ³ /h		1000/800/600	1100/1000/800	1500/1250/950	1500/1350/1000	1700/1500/1100	2000/1500/1150	2000/1500/1150
	CFM		590/471/355	650/590/471	885/736/599	885/795/590	1000/885/650	1175/885/677	1175/885/677
Rated Current ²	Cooling	A	0.5	0.7	1.0	1.0	1.0	1.1	1.1
	Heating	A	0.5	0.7	1.0	1.0	1.0	1.1	1.1
	Water Heating	A	/	/	/	/	/	/	/
ESP	Pa		30/0-50						
Sound pressure level(H/M/L)	dB(A)		35/33/30	36/34/31	40/36/32	40/36/32	40/36/32	42/40/37	42/40/37
Connecting pipe diameter	Liquid	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9
Drain pipe	External dia.	mm	25	25	25	25	25	25	25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Dimension (WxDxH)	Outline	mm	1200 x 655 x 260						
	Package	mm	1448x858x315						
Net weight/Gross weight	kg		40/47	40/47	46/55	46/55	46/55	47/56	47/56
Loading	40' GP	set	96	96	78	78	78	78	78
	40' HQ	set	96	96	78	78	78	78	78

Cassette Type Indoor Unit

The cooling capacity of the cassette type units ranges from 2.2~16.0 kW, which can be widely applied in hotels, office buildings, apartments and villas, etc.



- Built-in drain pump
- Washable filter
- Quiet function
- Easier maintainability
- Auto addressing technology
- Quality motor
- Slave and master wired controller
- Centralized control
- Horizontal swing

4-way Cassette Indoor Unit

50/60 Hz

Model		GMV-ND25T/A-T	GMV-ND36T/A-T	GMV-ND49T/A-T	GMV-ND59T/A-T	GMV-ND58T/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	V/Ph/Hz	220~240/1/50 & 208~230/1/60						
Power consumption	W	48	48	48	50	59	59	68
Airflow volume(H/M/L)	m³/h	750/650/550	750/650/550	750/650/550	830/650/550	1000/900/750	1000/900/750	1180/950/850
	CFM	440/383/325	440/383/325	440/383/325	490/383/325	590/530/440	590/530/440	695/559/550
Rated Current ^l	Cooling A	0.2	0.2	0.2	0.2	0.3	0.3	0.3
	Heating A	0.2	0.2	0.2	0.2	0.3	0.3	0.3
	Water Heating A	/	/	/	/	/	/	/
	Sound pressure level(H/M/L)	dB(A)	36/34/31	36/34/31	36/34/31	36/34/31	37/35/32	37/35/32
Connecting pipe diameter	Liquid mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52
	Gas mm	Φ9.52	Φ12.7	Φ12.7	Φ12.7	Φ15.9	Φ15.9	Φ15.9
Drain pipe	External dia. mm	25	25	25	25	25	25	25
	Thickness mm	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Main Body	Dimension (WxDxH) Outline mm	840x840x190	840x840x190	840x840x190	840x840x190	840x840x240	840x840x240	840x840x240
	Package mm	963x963x272	963x963x272	963x963x272	963x963x272	963x963x325	963x963x325	963x963x325
	Net weight/Gross weight kg	22.5/29.5	22.5/29.5	22.5/29.5	22.5/29.5	26.5/34.5	26.5/34.5	26.5/34.5
Panel	Dimension (WxDxH) Outline mm	950x950x65	950x950x65	950x950x65	950x950x65	950x950x65	950x950x65	950x950x65
	Package mm	1033x1038x133	1033x1038x133	1033x1038x133	1033x1038x133	1033x1038x133	1033x1038x133	1033x1038x133
	Net weight/Gross weight kg	7/11	7/11	7/11	7/11	7/11	7/11	7/11
Loading quantity	40'GP set	167	167	167	167	140	140	140
	40'HQ set	171	171	171	171	156	156	156

Model		GMV-ND80T/A-T	GMV-ND96T/A-T	GMV-ND100T/A-T	GMV-ND112T/A-T	GMV-ND125T/A-T	GMV-ND140T/A-T	GMV-ND160T/A-T
Capacity	Cooling kW	8.0	9.0	10.0	11.2	12.5	14.0	16.0
	Heating kW	9.0	10.0	11.2	12.5	14.0	16.0	17.6
Power supply	V/Ph/Hz	220~240/1/50 & 208~230/1/60						
Power consumption	W	68	98	98	110	110	130	130
Airflow volume(H/M/L)	m³/h	1180/950/850	1500/1350/1100	1500/1350/1100	1700/1400/1100	1860/1500/1150	1860/1500/1150	2100/1700/1400
	CFM	695/559/550	880/795/650	880/795/650	1000/824/650	1095/880/677	1095/880/677	1235/1000/824
Rated Current ^l	Cooling A	0.3	0.4	0.4	0.5	0.5	0.5	0.6
	Heating A	0.3	0.4	0.4	0.5	0.5	0.5	0.6
	Water Heating A	/	/	/	/	/	/	/
	Sound pressure level(H/M/L)	dB(A)	38/36/33	40/37/35	40/37/35	41/38/36	43/41/38	43/41/38
Connecting pipe diameter	Liquid mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ19.05
Drain pipe	External dia. mm	25	25	25	25	25	25	25
	Thickness mm	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Main Body	Dimension (WxDxH) Outline mm	840x840x240	840x840x320	840x840x320	840x840x320	840x840x320	840x840x320	910x910x293
	Package mm	963x963x325	963x963x400	963x963x400	963x963x400	963x963x400	963x963x400	1023x993x375
	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	46.5/56.5
Panel	Dimension (WxDxH) Outline mm	950x950x65	950x950x65	950x950x65	950x950x65	950x950x65	950x950x65	1040x1040x65
	Package mm	1033x1038x133	1033x1038x133	1033x1038x133	1033x1038x133	1033x1038x133	1033x1038x133	1137x1137x140
	Net weight/Gross weight kg	7/11	7/11	7/11	7/11	7/11	7/11	7.5/11.5
Loading quantity	40'GP set	140	104	104	104	104	104	144
	40'HQ set	156	119	119	119	119	119	144

Compact 4-way Cassette Indoor Unit

50/60 Hz

Model		GMV-ND22T/B-T	GMV-ND28T/B-T	GMV-ND36T/B-T	GMV-ND45T/B-T	GMV-ND50T/B-T	GMV-ND56T/B-T	
Capacity	Cooling kW	2.2	2.8	3.6	4.5	5	5.6	
	Heating kW	2.5	3.2	4	5	5.6	6.3	
Power supply	V/Ph/Hz	220~240/1/50 & 208~230/1/60						
Power consumption	W	35	35	35	45	45	45	
Airflow volume(H/M/L)	m³/h	600/500/400	600/500/400	600/500/400	700/600/480	700/600/480	700/600/480	
	CFM	355/295/235	355/295/235	355/295/235	410/355/283	410/355/283	410/355/283	
Rated Current ^l	Cooling A	0.4	0.4	0.4	0.5	0.5	0.5	
	Heating A	0.4	0.4	0.4	0.5	0.5	0.5	
	Water Heating A	/	/	/	/	/	/	
	Sound pressure level(H/M/L)	dB(A)	41/39/35	41/39/35	41/39/35	45/43/38	45/43/38	45/43/38
Connecting pipe diameter	Liquid mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.52	
	Gas mm	Φ9.52	Φ9.52	Φ12.7	Φ12.7	Φ12.7	Φ15.9	
Drain pipe	External dia. mm	25	25	25	25	25	25	
	Thickness mm	2.5	2.5	2.5	2.5	2.5	2.5	
Main Body	Dimension (WxDxH) Outline mm	596x596x240	596x596x240	596x596x240	596x596x240	596x596x240	596x596x240	
	Package mm	773x733x300	773x733x300	773x733x300	773x733x300	773x733x300	773x733x300	
	Net weight/Gross weight kg	20.5/25.5	20.5/25.5	20.5/25.5	20.5/25.5	20.5/25.5	20.5/25.5	
Panel	Dimension (WxDxH) Outline mm	670x670x50	670x670x50	670x670x50	670x670x50	670x670x50	670x670x50	
	Package mm	763x763x105	763x763x105	763x763x105	763x763x105	763x763x105	763x763x105	
	Net weight/Gross weight kg	3.5/5.0	3.5/5.0	3.5/5.0	3.5/5.0	3.5/5.0	3.5/5.0	
Loading quantity	40'GP set	245	245	245	245	245	245	
	40'HQ set	279	279	279	279	279	279	

2-way Cassette Indoor Unit

50/60 Hz

Model		GMV-ND26T/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	V/Ph/Hz	220~240/1/50 & 208~230/1/60						
Power consumption	W	55.0	55.0	55.0	55.0	103.0	103.0	103.0
Airflow volume(H/M/L)	m³/h	830/600/530	830/600/530	830/600/530	830/600/530	1100/820/760	1100/820/760	1100/820/760
	CFM	490/355/312	490/355/312	490/355/312	490/355/312	650/483/647	650/483/647	650/483/647
Rated Current ^l	Cooling A	0.3	0.3	0.3	0.3	0.7	0.7	0.7
	Heating A	0.3	0.3	0.3	0.3	0.7	0.7	0.7
	Water Heating A	/	/	/	/	/	/	/
	Sound pressure level(H/M/L)	dB(A)	35/33/31	35/33/31	35/33/31	35/33/31	39/37/35	39/37/35
Connecting pipe diameter	Liquid mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52
	Gas mm	Φ9.52	Φ12.7	Φ12.7	Φ12.7	Φ15.9	Φ15.9	Φ15.9
Drain pipe	External dia. mm	25	25	25	25	25	25	25
	Thickness mm	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Main Body	Dimension (WxDxH) Outline mm	1200x520x315	1200x520x315	1200x520x315	1200x520x315	1200x520x315	1200x520x315	1200x520x315
	Package mm	1520x855x415	1520x855x415	1520x855x415	1520x855x415	1520x855x415	1520x855x415	1520x855x415
	Net weight/Gross weight kg	40.5/52.5	40.5/52.5	40.5/52.5	40.5/52.5	43.0/55.0	43.0/55.0	43.0/55.0
Panel	Dimension (WxDxH) Outline mm	1443x630x33	1443x630x33	1443x630x33	1443x630x33	1443x630x33	1443x630x33	1443x630x33
	Package mm	1575x765x105	1575x765x105	1575x765x105	1575x765x105	1575x765x105	1575x765x105	1575x765x105
	Net weight/Gross weight kg	7.0/11.0	7.0/11.0	7.0/11.0	7.0/11.0	7.0/11.0	7.0/11.0	7.0/11.0
Loading quantity	40'GP set	101	101	101	101	101	101	101
	40'HQ set	115	115	115	115	115	115	115

1-way Cassette Indoor Unit

50/60 Hz

Model		GMV-ND22TD/A-T	GMV-ND28TD/A-T	GMV-ND36TD/A-T	GMV-ND45TD/A-T	GMV-ND56TD/A-T
Capacity	Cooling kW	2.2	2.8	3.6	4.5	5.0
	Heating kW	2.5	3.2	4.0	5.0	5.6
Power supply	V/Ph/Hz	220~240/1/50 & 208~230/1/60				
Power consumption	W	30	30	30	45	45
Airflow volume(H/M/L)	m³/h	600/500/450	600/500/450	600/500/450	830/600/500	830/600/500
	CFM	355/295/265	355/295/265	355/295/265	490/355/295	490/355/295
Rated Current ^l	Cooling A	0.2	0.2	0.2	0.3	0.3
	Heating A	0.2	0.2	0.2	0.3	0.3
	Water Heating A	/	/	/	/	/
	Sound pressure level(H/M/L)	dB(A)	36/32/28	36/32/28	36/32/28	40/35/30
Connecting pipe diameter	Liquid mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35
	Gas mm	Φ9.52	Φ12.7	Φ12.7	Φ12.7	Φ12.7
Drain pipe	External dia. mm	25	25	25	25	25
	Thickness mm	2.5	2.5	2.5	2.5	2.5
Main Body	Dimension (WxDxH) Outline mm	987x385x178	987x385x178	987x385x178	987x385x178	987x385x178
	Package mm	1307x501x310	1307x501x310	1307x501x310	1307x501x310	1307x501x310
	Net weight/Gross weight kg	20.0/27.0	20.0/27.0	20.0/27.0	21.0/28.5	21.0/28.5
Panel	Dimension (WxDxH) Outline mm	1200x460x55	1200x460x55	1200x460x55	1200x460x55	1200x460x55
	Package mm	1265x536x118	1265x536x118	1265x536x118	1265x536x118	1265x536x118
	Net weight/Gross weight kg	4.2/6.0	4.2/6.0	4.2/6.0	4.2/6.0	4.2/6.0
Loading quantity	40'GP set	138	138	138	138	138
	40'HQ set	138	138	138	138	138

Wall-mounted Type Indoor Unit

The cooling capacity of wall-mounted type indoor unit ranges from 2.2kW~7.1kW, which can be widely adopted in hotels, restaurants, office, etc.



Washable filter



Auto clean



Vertical swing



Anti-cold function



Quiet function



Compact design



Easier maintainability

50 Hz

Model		GMV-N220/A3A-K*	GMV-N280/A3A-K*	GMV-N380/A3A-K*	GMV-N450/A3A-K*	GMV-N500/A3A-K*	GMV-N560/A3A-K*	GMV-N630/A3A-K*	GMV-N710/A3A-K*	
Capacity	Cooling	2.2	2.8	3.6	4.5	5.0	5.6	6.3	7.1	
	Heating	2.5	3.2	4.0	5.0	5.8	6.3	7.0	7.5	
Power supply	V/Ph/Hz	220-240/1/50								
Power consumption	W	50	50	60	60	60	70	70	70	
Airflow volume(H/M/L)	m ³ /h	500/420/350	500/420/350	630/550/480	630/550/480	630/550/480	750/600/500	750/600/500	750/600/500	
	CFM	294/247/206	294/247/206	371/324/282	371/324/282	371/324/282	441/353/294	441/353/294	441/353/294	
Rated Current ²	Cooling	A	0.2	0.2	0.31	0.31	0.31	0.31	0.31	
	Heating	A	0.2	0.2	0.31	0.31	0.31	0.31	0.31	
	Water Heating	A	/	/	/	/	/	/	/	
Sound pressure level(H/M/L)	dB(A)	38/34/30	38/34/30	44/41/38	44/41/38	44/41/38	44/41/38	44/41/38	44/41/38	
Connecting pipe diameter	Liquid	mm	φ6.35	φ6.35	φ6.35	φ6.35	φ6.35	φ6.35	φ6.35	
	Gas	mm	φ9.52	φ9.52	φ12.7	φ12.7	φ12.7	φ15.9	φ15.9	
Drain pipe	External dia.	mm	φ20	φ20	φ20	φ20	φ30	φ30	φ30	
	Thickness	mm	1.5	1.5	1.5	1.5	1.5	1.5	1.5	
Dimension (WxDxH)	Outline	mm	843x180x275		940x200x298			1008x221x319		
	Package	mm	970x255x355		1065x285x380			1128x395x413		
Net weight/Gross weight	kg	10/12.5	10/12.5	12.5/15.5	12.5/15.5	12.5/15.5	15/18.5	15/18.5	15/18.5	
	40' GP set	702	702	557	557	557	441	441	441	
Loading	40' HQ set	819	819	624	624	624	503	503	503	

Note:
* This series is without water pump.

Floor Ceiling Type Indoor Unit



Washable filter



Quiet function



Vertical swing



Horizontal swing



Compact design



Easier maintainability

50/60 Hz

Model		GMV-ND28ZD/A-T	GMV-ND36ZD/A-T	GMV-ND50ZD/A-T	GMV-ND63ZD/A-T	GMV-ND71ZD/A-T	GMV-ND90ZD/A-T	GMV-ND112ZD/A-T	GMV-ND125ZD/A-T	GMV-ND140ZD/A-T	
Capacity	Cooling	kW	2.8	3.6	5.0	6.3	7.1	9.0	11.2	14.0	
	Heating	kW	3.2	4.0	5.6	7.1	8.0	10.0	12.5	16.0	
Power supply	V/Ph/Hz	220-240/1/50 & 208-230/1/60									
Power consumption	W	40	40	50	75	75	140	160	160	160	
Airflow volume(H/M/L)	m ³ /h	650/580/500	650/580/500	950/850/700	1400/1150/1000	1400/1150/1000	1600/1400/1200	2000/1800/1450	2000/1800/1450	2000/1800/1450	
	CFM	380/341/294	380/341/294	560/500/410	825/677/590	825/677/590	940/824/706	1175/1059/853	1175/1059/853	1175/1059/853	
Rated Current ²	Cooling	A	0.2	0.2	0.25	0.38	0.38	0.7	0.95	0.95	
	Heating	A	0.2	0.2	0.25	0.38	0.38	0.7	0.95	0.95	
	Water Heating	A	/	/	/	/	/	/	/	/	
Sound pressure level(H/M/L)	dB(A)	36/34/32	36/34/32	42/38/33	44/42/39	44/42/39	50/47/43	51/47/42	52/49/45	52/49/45	
Connecting pipe diameter	Liquid	mm	φ6.35	φ6.35	φ6.35	φ9.52	φ9.52	φ9.52	φ9.52	φ9.52	
	Gas	mm	φ9.52	φ12.7	φ12.7	φ15.9	φ15.9	φ15.9	φ15.9	φ15.9	
Drain pipe	External dia.	mm	φ17	φ17	φ17	φ17	φ17	φ17	φ17	φ17	
	Thickness	mm	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	
Dimension (WxDxH)	Outline	mm	1220x700x225			1420x700x245			1700x700x245		
	Package	mm	1343x823x315			1548x828x315			1828x828x345		
Net weight/Gross weight	kg	40/49	40/49	40/49	50/58	50/58	50/58	60/68	60/68	60/68	
	40' GP set	145	145	145	90	90	90	84	84	84	
Loading	40' HQ set	158	158	158	98	98	98	88	88	88	

Console Indoor Unit

The cooling capacity of console indoor unit ranges from 2.2kW~5.0kW, which can be widely adopted in hotels, restaurants, office, etc.



Vertical swing



Anti-cold function



Self-diagnosis



Quiet function



Comprehensive protection



Auto Restart



Compact design



Easier maintainability

50/60 Hz

Model		GMV-ND22C/A-T	GMV-ND28C/A-T	GMV-ND38C/A-T	GMV-ND45C/A-T	GMV-ND50C/A-T	
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.0
	Heating	kW	2.5	3.2	4.0	5.0	5.5
Power supply	V/Ph/Hz	220-240/1/50Hz & 208-230/1/60 Hz					
Power consumption	W	15	15	20	40	40	
Airflow volume(H/M/L)	m ³ /h	430-400/320/270	430-400/320/270	570-480/400/300	280-880/600/500	280-880/600/500	
	CFM	253-235/188/159	253-235/188/159	335-282/235/188	460-400/353/294	460-400/353/294	
Rated Current ²	Cooling	A	0.15	0.15	0.15	0.15	0.15
	Heating	A	0.15	0.15	0.15	0.15	0.15
	Water Heating	A	/	/	/	/	/
ESP	Pa	0	0	0	0	0	
Sound pressure level(H/M/L)	dB(A)	38/33/27	38/33/27	40/37/32	46/43/39	46/43/39	
Connecting pipe diameter	Liquid	mm	6.35	6.35	6.35	6.35	6.35
	Gas	mm	9.52	9.52	9.52	12.7	12.7
Drain pipe	External dia.	mm	17.2	17.2	17.2	17.2	17.2
	Thickness	mm	1	1	1	1	1
Dimension (WxDxH)	Outline	mm	700/215/600	700/215/600	700/215/600	700/215/600	700/215/600
	Package	mm	788/283/697	788/283/697	788/283/697	788/283/697	788/283/697
Net weight/Gross weight	kg	16/19	16/19	16/19	16/19	16/19	
	40' GP set	387	387	387	387	387	
Loading	40' HQ set	433	433	433	433	433	

Floor Standing Type Indoor Unit

The cooling capacity of floor standing type indoor unit ranges from 10kW~14kW, which can be widely adopted in hotels, restaurants, office, etc.



50/60 Hz

Model		GMV-ND100LA-T	GMV-ND140LA-T		
Capacity	Cooling	kW	10	14	
	Heating	kW	11	15	
Power supply	V/Ph/Hz			220-240/1/50Hz & 208-230/1/60 Hz	
Power consumption	W			185	
Airflow volume(H/M/L)	m ³ /h			1850/1600/1400	
	CFM			1088/942/824	
Rated Current ²	Cooling	A	1.5	1.5	
	Heating	A	1.5	1.5	
	Water Heating	A	/	/	
ESP	Pa			0	
Sound pressure level(H/M/L)	dB(A)			50/48/46	
Connecting pipe diameter	Liquid			9	
	Gas			16	
Drain pipe	External dia.			31	
	Thickness			4.5	
Dimension (WxDxH)	Outline			1870x580x400	
	Package			2083/738/545	
Net weight/Gross weight	kg			54/74	
Loading	40' GP			set	67
	40' HQ			set	67

- Quiet function
- Horizontal swing
- Vertical swing
- Easier maintainability
- Self-diagnosis
- Memory Function
- Anti-cold function
- Turbo function

Fresh Air Processing Indoor Unit

Fresh air processing indoor unit is widely adopted in villas, high-end communities, business places and public places. It introduces outdoor fresh air into the room to improve the air quality without fluctuation of indoor temperature, which belongs to the most advanced and comfortable VRF air conditioning technology.



- Fresh air supply ventilation
- Energy saving function
- Compact design

50 Hz

Model		GMV-NX140P/A(X1.2)-K *	GMV-NX224P/A(X2.0)-M *	GMV-NX280P/A(X2.5)-M *	GMV-NX280P/A(X3.0)-M *	GMV-NX450P/A(X4.0)-M *						
Capacity	Cooling	kW	14.0	22.4	28.0	28.0	5.0					
	Heating	kW	10.0	16.0	20.0	20.0	5.5					
Power supply	V/Ph/Hz						220-240/1/50	380-415/3/50				
Power consumption	W						380	740	780	1080	1240	
Airflow volume(H/M/L)	m ³ /h						1200	2000	2500	3000	4000	
	CFM						705	1175	1470	1765	2355	
Rated Current ²	Cooling	A	1.82	1.32	1.36	1.89	2.22					
	Heating	A	1.82	1.32	1.36	1.89	2.22					
	Water Heating	A	/	/	/	/	/					
ESP	Pa						150	200	200	200	200	
Sound pressure level(H/M/L)	dB(A)						42	47	48	51	52	
Connecting pipe diameter	Liquid						mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ12.7
	Gas						mm	Φ15.9	Φ19.05	Φ22.2	Φ22.2	Φ28.6
Drain pipe	External dia.						mm	25	25	25	25	25
	Thickness						mm	2.5	2.5	2.5	2.5	2.5
Dimension (WxDxH)	Outline						mm	1463 x 756 x 300	1500 x 1000 x 500	1500 x 1000 x 500	1700 x 1100 x 650	
	Package						mm	1514x785x360	1840x1200x673	1840x1200x673	1890x1460x835	
Net weight/Gross weight	kg						63.5/71	130/182	134/188	134/188	208/266	
Loading	40' GP						set	84.0	18.0	18.0	18.0	16.0
	40' HQ						set	98.0	18.0	18.0	18.0	16.0

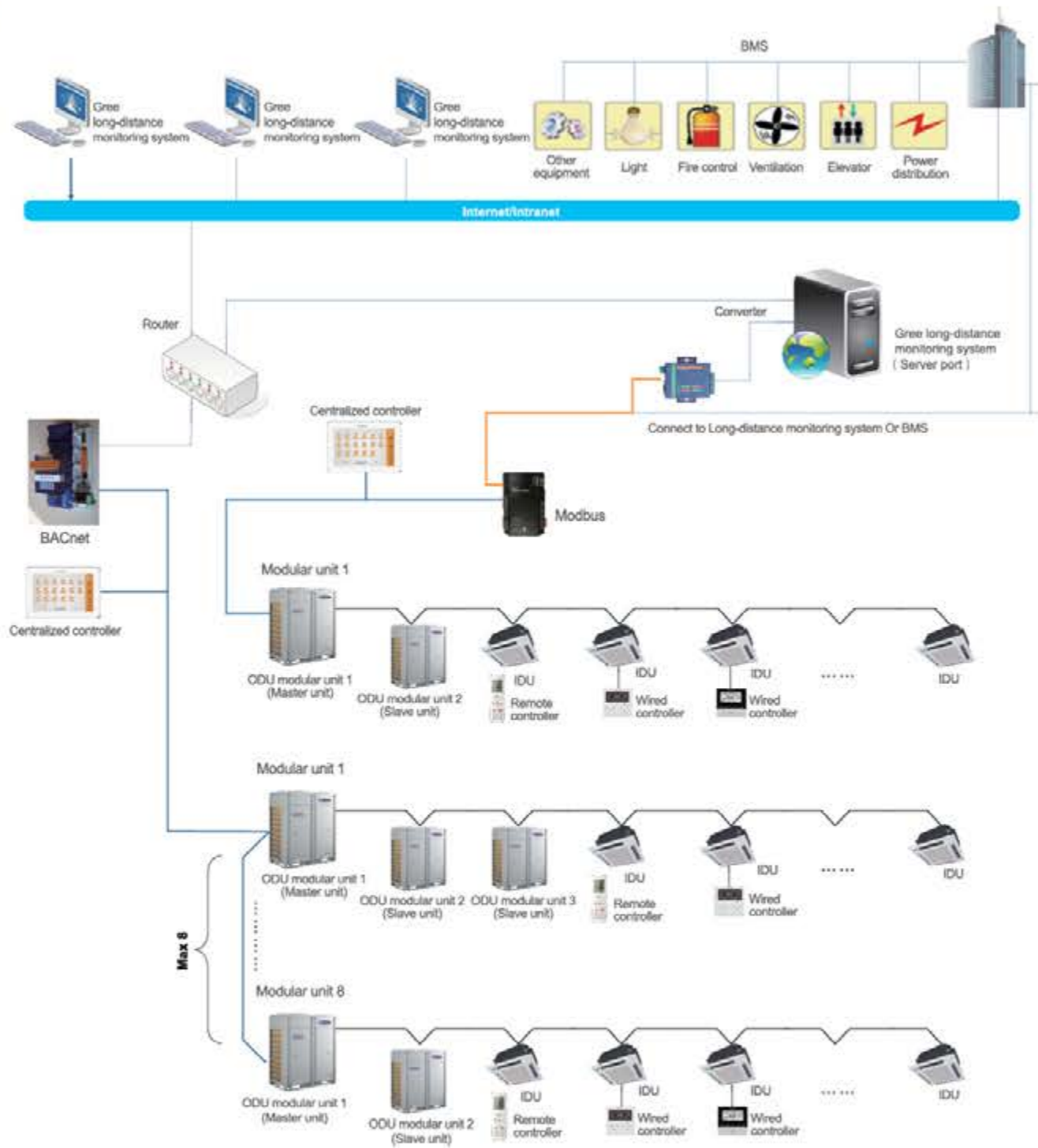
Note: * This series can be matched with GMV5(Top discharge outdoor unit)only.

Control System Lineup

Controlling system	Product series	Cassette Type	(High ESP, Low ESP, Slim Ducted) Duct Type	Fresh Air Processing	Wall mounted Type	Floor Ceiling Type	Console Type	Floor Standing Type
Wireless Controller	YAP1F	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	YV1L1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wired controller	XX46	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	XX49	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	XX55	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	JS05(receiver)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Centralized Controller	CE52-24/F(C)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	CE53-24/F(C)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Long-distance monitoring software	FE31-00/AD(RM)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BMS Accessories	Communication module(modbus)	ME30-24/E4(M)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	GMV BACnet gateway (BACnet)	MG30-24/D2(B)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other modules	Optoelectronic isolated converter	RS232-RS422-485	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Optoelectronic isolated signal multiplier	RS-422/485	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Note: means standard, means optional.

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
- Long-distance monitoring
- Quiet function
- Modular operating*
- Comprehensive protection
- Wide voltage range
- Wide operation range
- Compact design
- Easier maintainability
- Centralized control

- Advanced control functions.
- Better reliability.
- Compact outdoor unit.
- Greatly improved energy efficiency*: Significantly greater efficiency is realized by the use of DC inverter 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	180m
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	16.0
	Heating	kW	11.0	14.0	15.4	17.6	17.8
EER/OOP	Cooling/Heating	W/W	3.50/4.23	3.48/4.12	3.21/3.80	3.21/3.63	3.11/4.30
Power supply		PhV/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	3/380-415/50
Power input	Cooling	kW	2.86	3.50	4.36	4.98	4.50
	Heating	kW	2.60	3.40	4.05	4.85	4.30
Refrigerant charge volume		kg	7.5	7.5	7.5	7.5	7
Compressor configuration			DC×1	DC×1	DC×1	DC×1	DC×1
Sound pressure level		dB(A)	58	58	58	60	58
Dimension (W×D×H)	Outline	mm	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
Net weight/Gross weight		kg	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)
	Liquid	inch(mm)	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
Maximum drive IDU NO.		unit	6	7	8	9	9
Loading quantity	40'GP	set	53	53	53	53	53
	40'HQ	set	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	-15-46
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
	Heating	kW	25.0	31.5	37.5	45.0
EER/COP	Cooling/Heating	W/W	4.06/4.30	3.72/4.09	3.36/4.00	3.21/4.02
Power supply		PhV/Hz	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
	Heating	kW	5.82	7.7	9.38	11.2
Refrigerant charge volume		kg	12	13	15	16
Compressor configuration			DC×1+F×1	DC×1+F×1	DC×1+F×2	DC×1+F×2
Sound pressure level		dB(A)	58	58	60	61
Dimension (W×D×H)	Outline	mm	930×770×1670	930×770×1670	1340×770×1670	1340×770×1670
	Package	mm	1013×853×1865	1013×853×1865	1423×853×1865	1423×853×1865
Net weight/Gross weight		kg	263/280	263/280	369/390	369/390
Connecting pipe diameter	Gas	inch(mm)	φ7/8(22.2)	φ7/8(22.2)	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)
	Oil balance	inch(mm)	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
Maximum drive IDU NO.		unit	14	14	16	16
Loading quantity	40'GP	set	24	24	16	16
	40'HQ	set	24	24	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



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

Item	Nominal operating condition (Temperature)					
	Outdoor condition		Indoor condition		Water	
	DB(°C)	WB(°C)	DB(°C)	WB(°C)	Start(°C)	End(°C)
Cooling	35	24	27	19	-	-
Heating	7	6	20	18	-	-
Hot water	20	15	-	-	15	55

Mode	Outdoor Condition(DB°C)	
	Operation range	Cooling
	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	W/W	6.0	6.0	6.6	6.8	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*		DC×1	DC×1	DC×1	DC×1	DC×1+F×1	DC×1+F×1
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	56	58
Dimension (W×D×H)	Outline	mm 850×340×1250	950×340×1250	950×340×1250	950×340×1250	930×770×1670	930×770×1670
	Package	mm 1113×453×1385	1113×453×1385	1113×453×1385	1113×453×1385	1013×853×1865	1013×853×1865
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	SXVD200LC/JA-K	SXVD300LC/JA-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
	Thickness(inner)	mm 1.5	1.5	1.5	1.5	1.5	1.5
	Thickness(external)	mm 50	45	45	45	50	45
	Outline diameter	mm 640	620	620	620	640	620
	Outline height	mm 1895	1620	1895	2125	1595	1620
Package(W×D×H)	mm	625×1620×630	705×1645×710	705×1920×710	705×2150×710	625×1620×630	705×1645×710
Net weight/Gross weight	kg	57/66	71/81	79/90	86/98	68/77	82/92
Outer diameter	Circular pipe	inch(mm) G3/4(19.05)	G3/4(19.05)	G3/4(19.05)	G3/4(19.05)	G3/4(19.05)	G3/4(19.05)
	Cold water pipe	inch(mm) G1/2(12.7)	G1/2(12.7)	G1/2(12.7)	G1/2(12.7)	G1/2(12.7)	G1/2(12.7)
	Hot water pipe	inch(mm) G1/2(12.7)	G1/2(12.7)	G1/2(12.7)	G1/2(12.7)	G1/2(12.7)	G1/2(12.7)
Loading quantity	40'GP	set 78	63	54	51	78	63
	40'HQ	set 104	63	54	51	104	63

Model		SXVD350LC/JA-K	SXVD400LC/JA-K	SXVD200LC/J2/A-K	SXVD300LC/J2/A-K	SXVD350LC/J2/A-K	SXVD400LC/J2/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
	Thickness(inner)	mm 1.5	1.5	1.5	1.5	1.5	1.5
	Thickness(external)	mm 45	45	50	45	45	45
	Outline diameter	mm 620	620	540	620	620	620
	Outline height	mm 1895	2125	1595	1620	1895	2125
Package(W×D×H)	mm	705×1920×722	705×2150×722	625×1620×630	705×1645×710	705×1920×722	705×2150×722
Net weight/Gross weight	kg	96/122	106/134	71/80	87/97	100/126	110/139
Outer diameter	Circular pipe	inch(mm) G3/4(19.05)	G3/4(19.05)	G3/4(19.05)	G3/4(19.05)	G3/4(19.05)	G3/4(19.05)
	Cold water pipe	inch(mm) G1/2(12.7)	G1/2(12.7)	G1/2(12.7)	G1/2(12.7)	G1/2(12.7)	G1/2(12.7)
	Hot water pipe	inch(mm) G1/2(12.7)	G1/2(12.7)	G1/2(12.7)	G1/2(12.7)	G1/2(12.7)	G1/2(12.7)
Loading quantity	40'GP	set 54	51	78	63	54	51
	40'HQ	set 54	51	104	63	54	51

Hydro Box

Model		RQ08B-K	RQ16B-K	RQ20LA-K	RQ30LA-K	RQ20LA-M	RQ30LA-M
Heating capacity	kW	5.00	8.00	20.00	30.00	20.00	30.00
Dimension (W×D×H)	Outline	mm 650×300×250	650×300×250	1050×470×760	1050×470×910	1050×470×760	1050×470×910
	Package	mm 725×365×313	725×365×313	1120×500×890	1120×500×1040	1120×500×890	1120×500×1040
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)	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)	φ5/8(15.9)	φ5/8(15.9)
Water pump	Type	—	RS15/6	RS15/6	MH202	MH202	MH202
	Power Input	kW 80	80	370	370	370	370
	Water flow	L/h 1000	1000	2600	2600	2600	2600
		GPM 4.4	4.4	11.44	11.44	11.44	11.44
	Delivery lift	m 6	6	15	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	96
	40'HQ	set 576	576	96	96	96	96

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

Indoor Units Lineup (for Inverter Series & HOME GMV)

Capacity Index (kw)			22	28	36	45	50	56	63	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		•	•	•	•	•	•	•	•										
Floor ceiling	EXV integrated			•	•	•														
											•	•								
															•	•	•			
Console				•	•	•														
Floor standing										•			•						•	

High ESP Duct Type Indoor Unit



- Fresh air supply ventilation*1
- Quiet function
- High ESP
- Multi fan speed*2
- Compact design
- Easier maintainability
- Key-card control

*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	PhV/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	m ³ /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 (W×D×H)	Outline	mm	880×665×250	880×665×250	880×665×250	980×721×266	1155×736×300	1155×736×300
	Package	mm	1023×748×320	1023×748×320	1023×748×320	1123×798×323	1248×788×375	1248×788×375
Net weight/ Gross weight	without DWP*	kg	27/31	28.5/33.5	28.5/33.5	34/37	49/56	49/56
	with DWP*	kg	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	PhV/V/Hz		1/220-240/50	1/220-240/50	1/220-240/50	3/380-415/50	3/380-415/50
Motor power input	W		360	360	500	1600	1600
Air flow volume	m ³ /h		1700	1700	2000	4000	4800
	CFM		1000	1000	1177	2381	2857
Standard ESP	Pa		40/80	40/80	50/100	200	220
Sound pressure level	dB(A)		48/46/44	48/46/44	50/48/46	56	57
Dimension (W×D×H)	Outline	mm	1425×736×300	1425×736×300	1425×736×300	1463×799×389	1628×869×454
	Package	mm	1517×788×375	1517×788×375	1517×788×375	1543×883×485	1748×1028×595
Net weight/ Gross weight	without DWP*	kg	62/71	62/71	63.5/73	90/110	115/145
	with DWP*	kg	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



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

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	1/220-240/50
Motor power input	W	64	84	70	91	91	100	100
Air flow volume	m ³ /h	450	450	550	700	700	1000	1000
	CFM	265	265	324	412	412	589	589
Standard ESP	Pa	20	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	42/40/38
Dimension (W×D×H)	Outline	mm	700×615×200	700×615×200	700×615×200	900×615×200	900×615×200	1100×615×200
	Package	mm	893×743×305	893×743×305	893×743×305	1123×743×305	1123×743×305	1323×743×305
Net weight/Gross weight	kg	21/27	21/27	22/28	26/33	26/33	28/33	28/33
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



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

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 (W×D×H)	Outline	mm	840×840×190	840×840×190	840×840×190	840×840×190	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	30/38	30/38	30/38
Panel	Dimension (W×D×H)	Outline	mm	950×950×60	950×950×60	950×950×60	950×950×60	950×950×60	950×950×60
		Package	mm	1043×1028×130	1043×1028×130	1043×1028×130	1043×1028×130	1043×1028×130	1043×1028×130
	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)	
	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	130	130	130	130	107	107	
	40'HQ	set	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 (W×D×H)	Outline	mm	840×840×240	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	30/38	38/46	38/46	38/46	38/46	38/46
Panel	Dimension (W×D×H)	Outline	mm	950×950×60	950×950×60	950×950×60	950×950×60	950×950×60
		Package	mm	1043×1028×130	1043×1028×130	1043×1028×130	1043×1028×130	1043×1028×130
	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)	
	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	107	89	89	89	89	
	40'HQ	set	134	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-R22T/Na-K	GMV-R28T/Na-K	GMV-R36T/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	1/220-240/50	
Motor power input	W	12	12	12	12	42	42	42	
Air flow volume	m ³ /h	600	600	600	600	450	500	500	
	CFM	353	353	353	353	265	294	294	
Sound pressure level	dB(A)	47/41	47/41	47/41	47/41	45/43/41	45/43/41	45/43/41	
Main body	Dimension (W×D×H)	Outline	mm	650×640×230	650×640×230	650×640×230	650×640×230	920×360×185	920×360×185
		Package	mm	851×731×325	851×731×325	851×731×325	851×731×325	1293×468×285	1293×468×285
	Net weight/Gross weight	kg	20/27	20/27	20/27	20/27	16/25	16/25	16/25
Panel	Dimension (W×D×H)	Outline	mm	650×650×50	650×650×50	650×650×50	650×650×50	1180×430×30	1180×430×30
		Package	mm	733×673×117	733×673×117	733×673×117	733×673×117	1263×508×125	1263×508×125
	Net weight/Gross weight	kg	2.5/3.56	2.5/3.56	2.5/3.56	2.5/3.56	3/5	3/5	3/5
Connecting pipe diameter	Gas	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



- Washable filter
- Auto clean
- Vertical swing
- Anti-cold function
- Quiet function
- Compact design
- Easier maintainability

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		m ³ /h	500	500	630	630
		CFM	294	294	371	371
Sound pressure level (H/M/L)		dB(A)	38/34	38/34	44/38	44/38
Dimension (W×D×H)	Outline	mm	843×180×275	843×180×275	940×200×298	940×200×298
	Package	mm	918×258×370	918×258×370	1013×288×395	1013×288×395
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		m ³ /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 (W×D×H)	Outline	mm	940×200×298	1008×221×319	1008×221×319	1008×221×319
	Package	mm	1013×288×395	1076×316×410	1076×316×410	1076×316×410
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



- Washable filter
- Quiet function
- Vertical swing
- Horizontal swing
- Compact design
- Easier maintainability

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		m ³ /h	650	650	950	1400
		CFM	383	383	559	824
Sound pressure level		dB(A)	40	40	45	49
Dimension (W×D×H)	Outline	mm	1220×700×225	1220×700×225	1220×700×225	1420×700×245
	Package	mm	1343×823×315	1343×823×315	1343×823×315	1548×828×345
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		m ³ /h	1600	2000	2000	2000
		CFM	942	1177	1177	1177
Sound pressure level		dB(A)	51	55	55	55
Dimension (W×D×H)	Outline	mm	1420×700×245	1700×700×245	1700×700×245	1700×700×245
	Package	mm	1548×828×345	1828×828×345	1828×828×345	1828×828×345
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

Console Indoor Unit



- Vertical swing
- Anti-cold function
- Self-diagnosis
- Quiet function
- Comprehensive protection
- Auto Restart
- Compact design
- Easier maintainability

Model			GMV-R28C/Ns-K	GMV-R36C/Ns-K	GMV-R50C/Ns-K
Capacity	Cooling	kW	2.8	3.6	5.0
	Heating	kW	3.2	4.0	5.5
Power supply		PhV/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 (W×D×H)	Outline	mm	700×215×600	700×215×600	700×215×600
	Package	mm	788×283×697	788×283×697	788×283×697
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



- Quiet function
- Horizontal swing
- Vertical swing
- Easier maintainability
- Self-diagnosis
- Memory Function
- Anti-cold function
- Turbo function

Model			GMV-R71L/Ns-K	GMV-R100L/Ns-K	GMV-R140L/Ns-K
Capacity	Cooling	kW	7	10	14
	Heating	kW	8	11	15
Power supply		PhV/Hz	1/220-240/50	1/220-240/50	1/220-240/50
Motor power input		W	160	185	200
Air flow volume		m ³ /h	1100	1600	1700
		CFM	655	952	1012
Sound pressure level		dB(A)	48/42	51/47	52/48
Dimension (W×D×H)	Outline	mm	502×316×1756	556×381×1896	556×381×1896
	Package	mm	633×450×1943	738×545×2083	738×545×2083
Net weight/Gross weight		kg	38/60	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	95	67	67
	40'HQ	set	95	67	67

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		

GMV5 HR

(Heat Recovery Series)



GMV5 Heat Recovery System embodies the excellent features of GMV5(DC inverter technology, DC fan linkage control, precise control of capacity output, balancing control of refrigerant, original oil balancing technology with high pressure chamber, high-efficiency output control, low-temperature operation control technology, super heating technology, high adaptability for project, environmental refrigerant). Its energy efficiency is improved by 78% compared with conventional multi VRF.



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

- All DC Inverter Technology. All DC inverter compressor is used in this system. It can directly intake gas to reduce loss of overheat and improve efficiency.
- 82 Pa Wide Application Location
- Advanced Control Functions.
- Better Reliability
- Wide Operation Range: Cooling: -5°C~52°C; Heating: -20°C~24°C; Cooling and heating: -10°C~20°C
- Flexible Piping Design

Outdoor Units Lineup-GMV5 Heat Recovery Series

HP	Model	Product Outlook
8HP	GMV-Q224WM/B-X	
10HP	GMV-Q280WM/B-X	
12HP	GMV-Q335WM/B-X	
14HP	GMV-Q400WM/B-X	
16HP	GMV-Q450WM/B-X	

Model	Product Outlook
NCHS1B	
NCHS4B	
NCHS8B	

Specification and Parameters

50/60 Hz

Model		GMV-Q224WM/B-X	GMV-Q280WM/B-X	GMV-Q335WM/B-X	GMV-Q400WM/B-X	GMV-Q450WM/B-X	
Capacity range	HP	8	10	12	14	16	
Capacity	Cooling	kW	22.4	28	33.5	40	45
	Heating	kW	25	31.5	37.5	45	50
EER	W/W	4.07	3.73	3.76	3.54	3.33	
COP	W/W	4.17	3.89	3.68	3.85	3.62	
IPLV	Cooling	kW/kW	/	/	/	/	
Power Supply	V/Ph/Hz	380~415V-3Ph-50/60Hz					
Max. circuit/fuse current	A	15.7/20	20.9/25	24.7/32	28.8/40	33.2/40	
Power consumption	Cooling	kW	5.5	7.5	8.9	11.3	13.5
	Heating	kW	6	8.1	10.2	11.7	13.8
Maximum drive IDU NO.	unit	13	16	19	23	26	
Refrigerant Charge volume	kg	6.2	7.1	8.6	10.2	10.5	
Sound pressure level	dB(A)	60	61	63	63	63	
Connecting pipe	Liquid	mm	Φ9.52		Φ12.7		
	Gas(Low pressure)	mm	Φ19.05	Φ22.2	Φ25.4		
	Gas(High pressure)	mm	Φ19.05		Φ22.2		
Dimension (W*D*H)	Outline	mm	930*765*1605		1340*765*1605		
	Package	mm	1010*840*1775		1420*840*1775		
Net weight/Gross weight	kg	233/243	233/243	303/318	360/375	360/375	
Loading quantity	40' GP	set	24	24	16	16	16
	40' HQ	set	24	24	16	16	16

50 Hz

Model		NCHS1B	NCHS4B	NCHS8B
Max.IDU Branches	unit	1	4	8
No. of connectable IDU of each branch	unit	8	8	8
Total Connectable IDU	unit	8	32	64
Max. Capacity of each branch	W/W	14	14	14
Max. Capacity of connectable IDU	W/W	14	45	85
Power supply	V/Ph/Hz	220-240V-1Ph-50Hz		
Power consumption	W	20	30	30
Maximum drive IDU NO.	unit	1	4	8
Outdoor Unit Piping Connection	Liquid	mm	Φ9.52	Φ12.7
	Gas(Low pressure)	mm	Φ15.9	Φ22.2
Indoor Unit Piping Connection	Gas(High pressure)	mm	Φ19.05	Φ28.6
	Liquid	mm	Φ9.5	Φ9.5
Connection	Gas	mm	Φ15.9	Φ15.9

Specifications of Indoor Units

Type of indoor unit	Specification	22	25	28	32	36	40	45	50	56	63	71	72	80	90	100	112	125	140	160	224	280	450
High Static Pressure Duct Type Unit										•	•	•		•	•	•	•	•	•	•	•	•	•
Low Static Pressure Duct Type Unit		•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•			
Slim Ducted Type Indoor Unit		•	•	•	•	•	•	•	•	•	•	•	•										
4-way Cassette Unit					•	•	•	•	•	•	•	•		•	•	•	•	•	•	•			
Compact 4-way Cassette Indoor Unit		•	•	•	•	•	•	•	•	•													
2-way Cassette Indoor Unit				•	•	•	•	•	•	•	•	•											
1-way Cassette Unit		•	•	•	•	•	•	•	•														
Wall-mounted Type Unit		•	•	•	•	•	•	•	•	•	•	•											
Floor Ceiling Type Indoor Unit				•	•	•	•	•	•	•	•	•			•		•	•	•				
Console Indoor Unit		•	•	•	•	•	•	•	•														
Floor Standing Type Indoor Unit																•				•			
Fresh Air Processing Indoor Unit																				•		•	•

Duct Type Indoor Unit

High ESP Series



Low ESP Series



Washable filter



Easier maintainability



High ESP



Auto addressing technology



Slave and master wired controller



Centralized control



Quality motor

High Static Pressure Duct Type Indoor Unit

50/60 Hz

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	V/Ph/Hz	220-240/1/50 & 208-230/1/60				
Power consumption	W	120	120	130	130	200
Airflow volume(H/M/L)	m ³ /h	1000/800/600	1000/800/600	1100/900/700	1100/900/700	1700/1450/1100
	CFM	590/471/355	590/471/355	650/530/410	650/530/410	1000/853/650
Rated Current ¹	Cooling A	0.6	0.6	0.6	0.6	1.0
	Heating A	0.6	0.6	0.6	0.6	1.0
	Water Heating A	/	/	/	/	/
ESP	Pa	70/0-100				
Sound pressure level(H/M/L)	dB(A)	44/40/36	44/40/36	45/41/37	45/41/37	46/44/42
Connecting pipe diameter	Liquid mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9
Drain pipe	External dia. mm	Φ25	Φ25	Φ25	Φ25	Φ25
	Thickness mm	2.5	2.5	2.5	2.5	2.5
Dimension (WxDxH)	Outline mm	1271x558x268				
	Package mm	1348x597x283				
Net weight/Gross weight	kg	35/40	35/40	35/40	35/40	47/54
Loading	40' GP set	192	192	192	192	128
	40' HQ set	216	216	216	216	128

Model		GMV-ND100PHS/A-T	GMV-ND112PHS/A-T	GMV-ND125PHS/A-T	GMV-ND140PHS/A-T	GMV-ND160PHS/A-T	GMV-ND224PH/A-T	GMV-ND280PH/A-T	
Capacity	Cooling kW	10.0	11.2	12.5	14.0	16.0	22.4	28.0	
	Heating kW	11.2	12.5	14.0	16.0	18.0	25.0	31.0	
Power supply	V/Ph/Hz	220-240/1/50 & 208-230/1/60					220-240/1/50/60	220-240/1/50 & 208-230/1/60	
Power consumption	W	200	200	220	220	560	800	900	
Airflow volume(H/M/L)	m ³ /h	1700/1450/1100	1700/1450/1100	2000/1550/1200	2000/1700/1400	3100	4000	4400	
	CFM	1000/853/650	1000/853/650	1175/912/706	1175/1000/824	1824	2355	2590	
Rated Current ¹	Cooling A	1.0	1.0	1.0	1.0	4	4.1	4.6	
	Heating A	1.0	1.0	1.0	1.0	4	4.1	4.6	
	Water Heating A	/	/	/	/	/	/	/	
ESP	Pa	70/0-100					50	150/50-200	150/50-200
Sound pressure level(H/M/L)	dB(A)	46/44/42	46/44/42	48/45/42	48/46/44	55.0	54.0	55.0	
Connecting pipe diameter	Liquid mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	
	Gas mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ19	Φ19.05	Φ22.2	
Drain pipe	External dia. mm	Φ25	Φ25	Φ25	Φ25	Φ30	Φ30	Φ30	
	Thickness mm	2.5	2.5	2.5	2.5	1.5	1.5	1.5	
Dimension (WxDxH)	Outline mm	1229x775x290					1497x799x389	1483x791x385	1688x870x450
	Package mm	1338x877x305					1578x883x400	1758x883x470	1788x988x580
Net weight/Gross weight	kg	47/54	47/54	47/54	47/54	79/103	82/104	105/140	
Loading	40' GP set	128	128	128	128	75	65	52	
	40' HQ set	128	128	128	128	75	65	52	

Low Static Pressure Duct Type Indoor Unit

50/60 Hz

Model			GMV-ND22PLS/A-T	GMV-ND25PLS/A-T	GMV-ND28PLS/A-T	GMV-ND32PLS/A-T	GMV-ND36PLS/A-T
Capacity	Cooling	KW	2.2	2.5	2.8	3.2	3.6
	Heating	kW	2.5	2.8	3.6	3.6	4.0
Power supply	V/Ph/Hz		220-240/1/50 & 208-230/1/60				
Power consumption	W		35	35	35	43	43
Airflow volume(H/M/L)	m ³ /h		450/350/250	450/350/250	450/350/250	550/450/350	550/450/350
	CFM		265/206/147	265/206/147	265/206/147	325/265/206	325/265/206
Rated Current ²	Cooling	A	0.2	0.2	0.2	0.2	0.2
	Heating	A	0.2	0.2	0.2	0.2	0.2
	Water Heating	A	/	/	/	/	/
ESP	Pa		15/0-30				
Sound pressure level(H/M/L)	dB(A)		31/28/25	31/28/25	31/28/25	32/30/27	32/30/27
Connecting pipe diameter	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35
	Gas	mm	Φ9.52	Φ9.52	Φ9.52	Φ12.7	Φ12.7
Drain pipe	External dia.	mm	25	25	25	25	25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5
Dimension (WxDxH)	Outline	mm	700 x 615 x 200				
	Package	mm	893x743x305				
Net weight/Gross weight	kg		22/27	22/27	22/27	22/28	22/28
Loading	40' GP	set	192	192	192	192	192
	40' HQ	set	192	192	192	192	192

Model			GMV-ND40PLS/A-T	GMV-ND45PLS/A-T	GMV-ND50PLS/A-T	GMV-ND56PLS/A-T	GMV-ND63PLS/A-T
Capacity	Cooling	KW	4.0	4.5	5.0	5.6	6.3
	Heating	kW	4.5	5.0	5.6	6.3	7.1
Power supply	V/Ph/Hz		220-240/1/50 & 208-230/1/60				
Power consumption	W		52	52	52	59	59
Airflow volume(H/M/L)	m ³ /h		700/600/450	700/600/450	700/600/450	1000/800/600	1000/800/600
	CFM		410/355/265	410/355/265	410/355/265	590/471/355	590/471/355
Rated Current ²	Cooling	A	0.3	0.3	0.3	0.5	0.5
	Heating	A	0.3	0.3	0.3	0.5	0.5
	Water Heating	A	/	/	/	/	/
ESP	Pa		15/0-30				
Sound pressure level(H/M/L)	dB(A)		33/31/28	33/31/28	33/31/28	35/33/30	35/33/30
Connecting pipe diameter	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52
	Gas	mm	Φ12.7	Φ12.7	Φ12.7	Φ15.9	Φ15.9
Drain pipe	External dia.	mm	25	25	25	25	25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5
Dimension (WxDxH)	Outline	mm	900 x 615 x 200			1100 x 615 x 200	
	Package	mm	1123x743x305			1323x743x305	
Net weight/Gross weight	kg		27/33	27/33	27/33	31/38	31/38
Loading	40' GP	set	192	192	192	162	162
	40' HQ	set	192	192	192	162	162

Model			GMV-ND71PLS/A-T	GMV-ND80PLS/A-T	GMV-ND90PLS/A-T	GMV-ND109PLS/A-T	GMV-ND112PLS/A-T	GMV-ND125PLS/A-T	GMV-ND140PLS/A-T
Capacity	Cooling	KW	7.1	8.0	9.0	10.0	11.2	12.5	14.0
	Heating	kW	8.0	9.0	10.0	11.2	12.5	14.0	16.0
Power supply	V/Ph/Hz		220-240/1/50 & 208-230/1/60						
Power consumption	W		105	140	209	209	209	230	230
Airflow volume(H/M/L)	m ³ /h		1000/800/600	1100/1000/800	1500/1250/950	1500/1350/1000	1700/1500/1100	2000/1500/1150	2000/1500/1150
	CFM		590/471/355	650/590/471	885/736/599	885/795/590	1000/885/650	1175/885/677	1175/885/677
Rated Current ²	Cooling	A	0.5	0.7	1.0	1.0	1.0	1.1	1.1
	Heating	A	0.5	0.7	1.0	1.0	1.0	1.1	1.1
	Water Heating	A	/	/	/	/	/	/	/
ESP	Pa		30/0-50						
Sound pressure level(H/M/L)	dB(A)		35/33/30	36/34/31	40/36/32	40/36/32	40/36/32	42/40/37	42/40/37
Connecting pipe diameter	Liquid	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9
Drain pipe	External dia.	mm	25	25	25	25	25	25	25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Dimension (WxDxH)	Outline	mm	1200 x 655 x 260			1340 x 655 x 260			
	Package	mm	1448x858x315			1591x861x330			
Net weight/Gross weight	kg		40/47	40/47	46/55	46/55	46/55	47/56	47/56
Loading	40' GP	set	96	96	78	78	78	78	78
	40' HQ	set	96	96	78	78	78	78	78

Slim Ducted Type Indoor Unit

50/60 Hz

Model			GMV-ND22PLB-T*	GMV-ND25PLB-T*	GMV-ND28PLB-T*	GMV-ND32PLB-T*	GMV-ND36PLB-T*
Capacity	Cooling	KW	2.2	2.5	2.8	3.2	3.6
	Heating	kW	2.5	2.8	3.2	3.6	4.0
Power supply	V/Ph/Hz		220-240/1/50 & 208-230/1/60				
Power consumption	W		25	25	25	30	30
Airflow volume(H/M/L)	m ³ /h		450/400/320	450/400/320	450/400/320	550/450/340	550/450/340
	CFM		265/235/188	265/235/188	265/235/188	324/265/200	324/265/200
Rated Current ²	Cooling	A	0.2	0.2	0.2	0.3	0.3
	Heating	A	0.2	0.2	0.2	0.3	0.3
	Water Heating	A	/	/	/	/	/
ESP	Pa		0/15				
Sound pressure level(H/M/L)	dB(A)		30/28/22	30/28/22	30/28/22	31/29/25	31/29/25
Connecting pipe diameter	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35
	Gas	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ12.7
Drain pipe	External dia.	mm	25	25	25	25	25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5
Dimension (WxDxH)	Outline	mm	710x450x200				
	Package	mm	1003x551x285				
Net weight/Gross weight	kg		18.5/22	18.5/22	18.5/22	19.5/23	19.5/23
Loading	40' GP	set	352	352	352	352	352
	40' HQ	set	352	352	352	352	352

Model			GMV-ND40PLB-T*	GMV-ND45PLB-T*	GMV-ND50PLB-T*	GMV-ND56PLB-T*	GMV-ND63PLB-T*	GMV-ND72PLB-T*
Capacity	Cooling	KW	4.0	4.5	5.0	5.6	6.3	7.2
	Heating	kW	4.5	5.0	5.6	6.3	7.0	8.0
Power supply	V/Ph/Hz		220-240/1/50 & 208-230/1/60					
Power consumption	W		35	35	35	45	45	50
Airflow volume(H/M/L)	m ³ /h		750/660/540	750/660/540	750/660/540	850/700/610	850/700/610	1100/800/640
	CFM		441/388/318	441/388/318	441/388/318	500/412/359	500/412/359	647/471/377
Rated Current ²	Cooling	A	0.3	0.3	0.3	0.3	0.3	0.5
	Heating	A	0.3	0.3	0.3	0.3	0.3	0.5
	Water Heating	A	/	/	/	/	/	/
ESP	Pa		0/15					
Sound pressure level(H/M/L)	dB(A)		33/30/27	33/30/27	33/30/27	35/33/29	35/33/29	37/34/30
Connecting pipe diameter	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ12.7	Φ12.7	Φ12.7	Φ15.9	Φ15.9	Φ15.9
Drain pipe	External dia.	mm	25	25	25	25	25	25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5
Dimension (WxDxH)	Outline	mm	1010x450x200					
	Package	mm	1303x551x285					
Net weight/Gross weight	kg		23.5/28	23.5/28	23.5/28	24.5/29	24.5/29	30.5/36
Loading	40' GP	set	288	288	288	288	288	224
	40' HQ	set	288	288	288	288	288	224

Note:
* This series is without water pump.

Wall-mounted Type Indoor Unit

The cooling capacity of wall-mounted type indoor unit ranges from 2.2kW~7.1kW, which can be widely adopted in hotels, restaurants, office, etc.



- Washable filter
- Auto clean
- Vertical swing
- Anti-cold function
- Quiet function
- Compact design
- Easier maintainability

50 Hz

Model		GMV-N220/A3A-K*	GMV-N280/A3A-K*	GMV-N380/A3A-K*	GMV-N450/A3A-K*	GMV-N500/A3A-K*	GMV-N560/A3A-K*	GMV-N630/A3A-K*	GMV-N710/A3A-K*	
Capacity	Cooling	2.2	2.8	3.6	4.5	5.0	5.6	6.3	7.1	
	Heating	2.5	3.2	4.0	5.0	5.8	6.3	7.0	7.5	
Power supply	V/Ph/Hz	220-240/1/50								
Power consumption	W	50	50	60	60	60	70	70	70	
Airflow volume(H/M/L)	m ³ /h	500/420/350	500/420/350	630/550/480	630/550/480	630/550/480	750/600/500	750/600/500	750/600/500	
	CFM	294/247/206	294/247/206	371/324/282	371/324/282	371/324/282	441/353/294	441/353/294	441/353/294	
Rated Current ²	Cooling	A	0.2	0.2	0.31	0.31	0.31	0.31	0.31	
	Heating	A	0.2	0.2	0.31	0.31	0.31	0.31	0.31	
	Water Heating	A	/	/	/	/	/	/	/	
Sound pressure level(H/M/L)	dB(A)	38/34/30	38/34/30	44/41/38	44/41/38	44/41/38	44/41/38	44/41/38	44/41/38	
Connecting pipe diameter	Liquid	mm	φ6.35	φ6.35	φ6.35	φ6.35	φ6.35	φ6.35	φ6.35	
	Gas	mm	φ9.52	φ9.52	φ12.7	φ12.7	φ15.9	φ15.9	φ15.9	
Drain pipe	External dia.	mm	φ20	φ20	φ20	φ20	φ30	φ30	φ30	
	Thickness	mm	1.5	1.5	1.5	1.5	1.5	1.5	1.5	
Dimension (WxDxH)	Outline	mm	843x180x275		940x200x298			1008x221x319		
	Package	mm	970x255x355		1065x285x380			1128x395x413		
Net weight/Gross weight	kg	10/12.5	10/12.5	12.5/15.5	12.5/15.5	12.5/15.5	15/18.5	15/18.5	15/18.5	
	40' GP	set	702	702	557	557	557	441	441	
Loading	40' HQ	set	819	819	624	624	624	503	503	

Note:
* This series is without water pump.

Floor Ceiling Type Indoor Unit



- Washable filter
- Quiet function
- Vertical swing
- Horizontal swing
- Compact design
- Easier maintainability

50/60 Hz

Model		GMV-ND28ZD/A-T	GMV-ND36ZD/A-T	GMV-ND50ZD/A-T	GMV-ND63ZD/A-T	GMV-ND71ZD/A-T	GMV-ND90ZD/A-T	GMV-ND112ZD/A-T	GMV-ND125ZD/A-T	GMV-ND140ZD/A-T	
Capacity	Cooling	kW	2.8	3.6	5.0	6.3	7.1	9.0	11.2	12.5	
	Heating	kW	3.2	4.0	5.6	7.1	8.0	10.0	12.5	14.0	
Power supply	V/Ph/Hz	220-240/1/50 & 208-230/1/60									
Power consumption	W	40	40	50	75	75	140	160	160	160	
Airflow volume(H/M/L)	m ³ /h	650/580/500	650/580/500	950/850/700	1400/1150/1000	1400/1150/1000	1600/1400/1200	2000/1800/1450	2000/1800/1450	2000/1800/1450	
	CFM	380/341/294	380/341/294	560/500/410	825/677/590	825/677/590	940/824/706	1175/1059/853	1175/1059/853	1175/1059/853	
Rated Current ²	Cooling	A	0.2	0.2	0.25	0.38	0.38	0.7	0.95	0.95	
	Heating	A	0.2	0.2	0.25	0.38	0.38	0.7	0.95	0.95	
	Water Heating	A	/	/	/	/	/	/	/	/	
Sound pressure level(H/M/L)	dB(A)	36/34/32	36/34/32	42/38/33	44/42/39	44/42/39	50/47/43	51/47/42	52/49/45	52/49/45	
Connecting pipe diameter	Liquid	mm	φ6.35	φ6.35	φ6.35	φ9.52	φ9.52	φ9.52	φ9.52	φ9.52	
	Gas	mm	φ9.52	φ12.7	φ12.7	φ15.9	φ15.9	φ15.9	φ15.9	φ15.9	
Drain pipe	External dia.	mm	φ17	φ17	φ17	φ17	φ17	φ17	φ17	φ17	
	Thickness	mm	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	
Dimension (WxDxH)	Outline	mm	1220x700x225			1420x700x245			1700x700x245		
	Package	mm	1343x823x315			1548x828x315			1828x828x345		
Net weight/Gross weight	kg	40/49	40/49	40/49	50/58	50/58	50/58	60/68	60/68	60/68	
	40' GP	set	145	145	145	90	90	90	84	84	
Loading	40' HQ	set	158	158	158	98	98	98	98	98	

Console Indoor Unit

The cooling capacity of console indoor unit ranges from 2.2kW~5.0kW, which can be widely adopted in hotels, restaurants, office, etc.



- Vertical swing
- Anti-cold function
- Self-diagnosis
- Quiet function
- Comprehensive protection
- Auto Restart
- Compact design
- Easier maintainability

50/60 Hz

Model		GMV-ND22C/A-T	GMV-ND28C/A-T	GMV-ND38C/A-T	GMV-ND45C/A-T	GMV-ND50C/A-T	
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	
	Heating	kW	2.5	3.2	4.0	5.0	
Power supply	V/Ph/Hz	220-240/1/50Hz & 208-230/1/60 Hz					
Power consumption	W	15	15	20	40	40	
Airflow volume(H/M/L)	m ³ /h	430-400/320/270	430-400/320/270	570-480/400/300	280-680/600/500	280-680/600/500	
	CFM	253-235/188/159	253-235/188/159	335-282/235/188	460-400/353/294	460-400/353/294	
Rated Current ²	Cooling	A	0.15	0.15	0.15	0.15	
	Heating	A	0.15	0.15	0.15	0.15	
	Water Heating	A	/	/	/	/	
ESP	Pa	0	0	0	0	0	
Sound pressure level(H/M/L)	dB(A)	38/33/27	38/33/27	40/37/32	46/43/39	46/43/39	
Connecting pipe diameter	Liquid	mm	6.35	6.35	6.35	6.35	
	Gas	mm	9.52	9.52	9.52	12.7	
Drain pipe	External dia.	mm	17.2	17.2	17.2	17.2	
	Thickness	mm	1	1	1	1	
Dimension (WxDxH)	Outline	mm	700/215/600	700/215/600	700/215/600	700/215/600	
	Package	mm	788/283/697	788/283/697	788/283/697	788/283/697	
Net weight/Gross weight	kg	16/19	16/19	16/19	16/19	16/19	
	40' GP	set	387	387	387	387	
Loading	40' HQ	set	433	433	433	433	

Floor Standing Type Indoor Unit

The cooling capacity of floor standing type indoor unit ranges from 10kW~14kW, which can be widely adopted in hotels, restaurants, office, etc.



50/60 Hz

Model		GMV-ND100LA-T	GMV-ND140LA-T
Capacity	Cooling	kW 10	14
	Heating	kW 11	15
Power supply	V/Ph/Hz	220-240/1/50Hz & 208-230/1/60 Hz	
Power consumption	W	185	185
Airflow volume(H/M/L)	m ³ /h	1850/1600/1400	1850/1600/1400
	CFM	1088/942/824	1088/942/824
Rated Current ²	Cooling	A 1.5	1.5
	Heating	A 1.5	1.5
	Water Heating	A /	/
ESP	Pa	0	0
Sound pressure level(H/M/L)	dB(A)	50/48/46	50/48/46
Connecting pipe diameter	Liquid	mm 9	9
	Gas	mm 16	16
Drain pipe	External dia.	mm 31	31
	Thickness	mm 4.5	4.5
Dimension (WxDxH)	Outline	mm 1870x580x400	1870x580x400
	Package	mm 2083/738/545	2083/738/545
Net weight/Gross weight	kg	54/74	57/78
Loading	40' GP	set 67	67
	40' HQ	set 67	67

- Quiet function
- Horizontal swing
- Vertical swing
- Easier maintainability
- Self-diagnosis
- Memory Function
- Anti-cold function
- Turbo function

Fresh Air Processing Indoor Unit

Fresh air processing indoor unit is widely adopted in villas, high-end communities, business places and public places. It introduces outdoor fresh air into the room to improve the air quality without fluctuation of indoor temperature, which belongs to the most advanced and comfortable VRF air conditioning technology.



- Fresh air supply ventilation
- Energy saving function
- Compact design

50 Hz

Model		GMV-NX140P/A(X1.2)-K *	GMV-NX224P/A(X2.0)-M *	GMV-NX280P/A(X2.5)-M *	GMV-NX280P/A(X3.0)-M *	GMV-NX450P/A(X4.0)-M *
Capacity	Cooling	kW 14.0	22.4	28.0	28.0	5.0
	Heating	kW 10.0	16.0	20.0	20.0	5.5
Power supply	V/Ph/Hz	220-240/1/50		380-415/3/50		
Power consumption	W	380	740	780	1080	1240
Airflow volume(H/M/L)	m ³ /h	1200	2000	2500	3000	4000
	CFM	705	1175	1470	1765	2355
Rated Current ²	Cooling	A 1.82	1.32	1.36	1.89	2.22
	Heating	A 1.82	1.32	1.36	1.89	2.22
	Water Heating	A /	/	/	/	/
ESP	Pa	150		200		
Sound pressure level(H/M/L)	dB(A)	42	47	48	51	52
Connecting pipe diameter	Liquid	mm Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ12.7
	Gas	mm Φ15.9	Φ19.05	Φ22.2	Φ22.2	Φ28.6
Drain pipe	External dia.	mm 25	25	25	25	25
	Thickness	mm 2.5	2.5	2.5	2.5	2.5
Dimension (WxDxH)	Outline	mm 1463 x 756 x 300		1500 x 1000 x 500		1700 x 1100 x 650
	Package	mm 1514x785x360		1840x1200x673		1890x1460x835
Net weight/Gross weight	kg	63.5/71	130/182	134/188	134/188	208/266
Loading	40' GP	set 84.0	18.0	18.0	18.0	16.0
	40' HQ	set 98.0	18.0	18.0	18.0	16.0

Note: * This series can be matched with GMV5(Top discharge outdoor unit)only.

Control System Lineup

Controlling system	Product series	Cassette Type	(High ESP, Low ESP, Slim Ducted) Duct Type	Fresh Air Processing	Wall mounted Type	Floor Ceiling Type	Console Type	Floor Standing Type
Wireless Controller	YAP1F	●	○	○	●	●	●	●
	YV1L1	○	○	○	○	○	○	○
Wired controller	XX46	○	●	●	○	○	○	○
	XX49	○	○	○	○	○	○	○
	XX55	○	○	○	○	○	○	○
	JS05(receiver)		○	○				
Centralized Controller	CE52-24/F(C)	○	○	○	○	○	○	○
	CE53-24/F(C)	○	○	○	○	○	○	○
Long-distance monitoring software	FE31-00/AD(RM)	○	○	○	○	○	○	○
BMS Accessories	Communication module(modbus)	ME30-24/E4(M)	○	○	○	○	○	○
	GMV BACnet gateway (BACnet)	MG30-24/D2(B)	○	○	○	○	○	○
Other modules	Optoelectronic isolated converter	RS232-RS422-485	○	○	○	○	○	○
	Optoelectronic isolated signal multiplier	RS-422/485	○	○	○	○	○	○

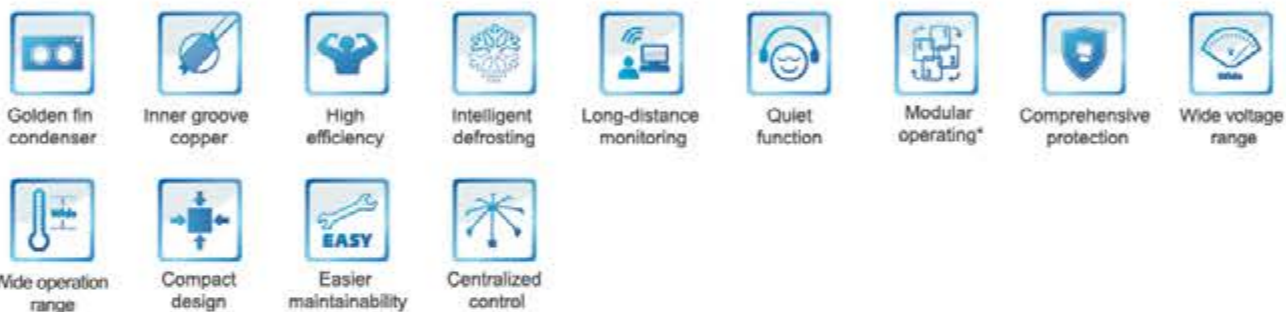
Note: ● means standard, ○ means optional.

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:
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-Pdhm336W/Na-M (12HP)	GMV-Pdhm400W/Na-M (14HP)	GMV-Pdhm450W/Na-M (16HP)
	GMV-Pdhm224W/Na-M (8HP)	●				
	GMV-Pdhm280W/Na-M (10HP)		●			
	GMV-Pdhm336W/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		
	DB(°C)	WB(°C)	DB(°C)	WB(°C)	
Cooling	35	24	27	19	-10~48
Heating	7	6	20	15	-20~27
Cooling and Heating					-10~20

Model	Heat pump		Nominal operating condition (temperature)				
			GMV-Pdhm224W/Na-M	GMV-Pdhm280W/Na-M	GMV-Pdhm338W/Na-M	GMV-Pdhm400W/Na-M	GMV-Pdhm480W/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		W/W	3.73	3.73	3.63	3.21	3.14
COP		W/W	4.09	4.09	4.00	4.02	3.60
ECOP	Cooling&heating	W/W	6.80	6.80	6.50	6.50	6.50
Power supply		PhV/Hz	3/380-415/50	3/380-415/50	3/380-415/50	3/380-415/50	3/380-415/50
Power input	Cooling	kW	5.50	7.5	9.23	12.4	14.32
	Heating	kW	5.80	7.7	9.38	11.2	13.90
Refrigerant charge volume		kg	12.0	12.0	14.0	16.0	16.0
Compressor configuration*			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	61	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	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		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	EXV integrated		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Floor ceiling	EXV separated		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	EXV integrated		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

Duct Type Indoor Unit



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

** For the unit between 5.6kW to 14kW ** 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	2.6	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	With/without drain water pump	W	85/75	90/80	90/80	150/140	240
Air flow volume		m/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 (W×D×H)	Outline	mm	880×665×250	880×665×250	880×665×250	980×721×266	1155×736×300
	Package	mm	1148×748×320	1148×748×320	1148×748×320	1293×798×323	1418×788×375
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		m/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 (W×D×H)	Outline	mm	1155×736×300	1425×736×300	1425×736×300	1425×736×300	1463×799×389	1628×869×454
	Package	mm	1418×788×375	1687×788×375	1687×788×375	1687×788×375	1698×883×485	1903×1028×595
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

Wall Mounted Type Indoor Unit



- 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 (W×D×H)	Outline	mm	770×190×250	770×190×250	830×189×285	830×189×285
	Package	mm	863×287×481	863×287×481	908×280×536	908×280×536
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 (W×D×H)	Outline	mm	1020×228×310	1020×228×310	1178×227×326
	Package	mm	1083×405×423	1083×405×423	1418×348×478
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 (W×D×H)	Outline	mm	840×695×238	840×695×238	840×695×238	1300×600×188
	Package	mm	1098×808×310	1098×808×315	1098×808×315	1573×727×263
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 (W×D×H)	Outline	mm	1590×895×238	1590×895×238	1590×895×238
	Package	mm	1873×833×345	1873×833×345	1873×833×345
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

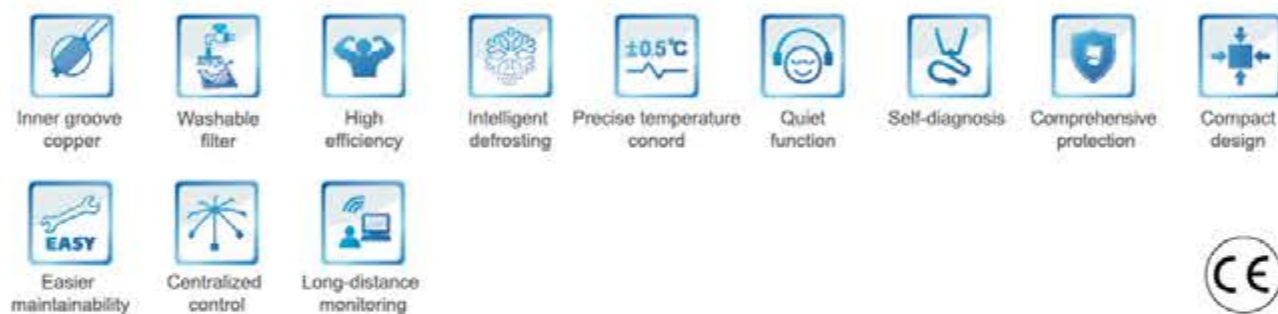
Branching Joint

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.



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
Heating	7	6	20	15	-7/-9-14/11

Outdoor Unit

Model	Heat pump		GMV-Pdm224W/NaX-M	GMV-Pdm280W/NaX-M	GMV-Pdm450W/NaX-M
	Capacity	Cooling	kW	22.4	28.0
	Heating	kW	16.0	20.0	32.0
EER/COP	Cooling/Heating	W/W	2.24/1.88	2.67/2.22	3.10/2.37
Power supply		Ph/V/Hz	3/380-415/50	3/380-415/50	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*			DC×1+F×1	DC×1+F×1	DC×1+F×2
Sound pressure level		dB(A)	58	58	61
Dimension (W×D×H)	Outline	mm	930×770×1670	930×770×1670	1340×770×1670
	Package	mm	1013×853×1865	1013×853×1865	1423×853×1865
Net weight/Gross weight		kg	255/275	255/275	370/400
Connecting pipe diameter	Gas	inch(mm)	φ7/8(22.2)	φ7/8(22.2)	φ9/8(28.6)
	Liquid	inch(mm)	φ3/8(9.52)	φ3/8(9.52)	φ1/2(12.7)
	Oil balance	inch(mm)	φ1/2(12.7)	φ1/2(12.7)	φ1/2(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		PhV/Hz	1/220-240/50	3/380-415/50	3/380-415/50	3/380-415/50
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 (W×D×H)	Outline	mm	1463×756×300	1500×1000×500	1500×1000×500	1500×1000×500
	Package	mm	1517×788×375	1843×1203×688	1843×1203×688	1843×1203×688
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		PhV/Hz	3/380-415/50	3/380-415/50	3/380-415/50
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 (W×D×H)	Outline	mm	1700×1100×850	1700×1100×850	1700×1100×850
	Package	mm	1893×1463×850	1893×1463×850	1893×1463×850
Net weight/Gross weight		kg	180/220	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	JS02 (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-RS422/485	RS-422/485
					
○	○	○	○	○	○

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.



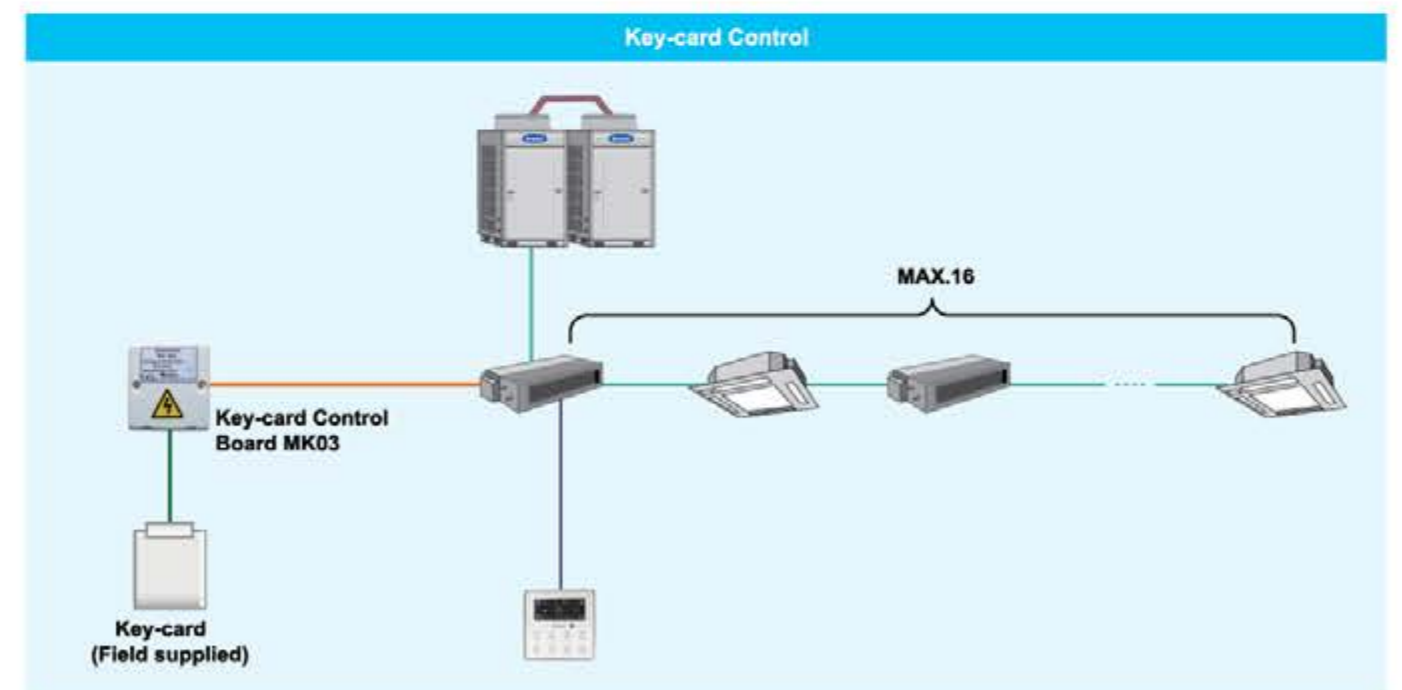
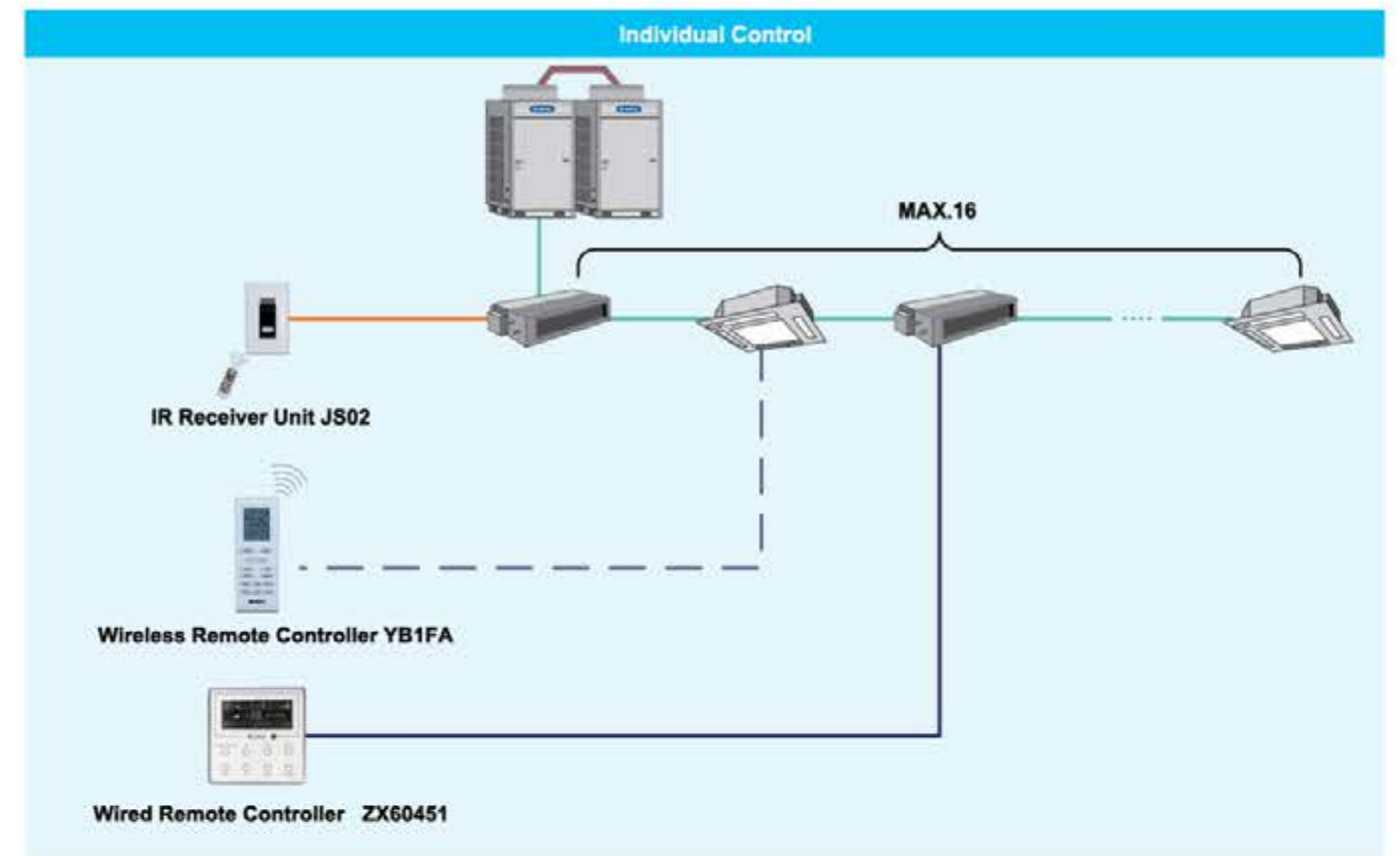
Model			FHBQ-D3.5-K	FHBQ-D5-K	FHBQ-D8-K	FHBQ-D10-K	FHBQ-D15-M	FHBQ-D20-M	FHBQ-D30-M
Air flow Volume	H/M/L	m ³ /h	350/260/210	500/380/300	800/600/480	1000/750/600	1500	2000	3000
ESP		Pa	100/80/60	100/80/60	110/85/65	110/85/65	150	150	220
Temperature exchange efficiency	H/M/L	%	71/73/75	68/70/72	70/72/74	73/77/79	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)	Cooling	%	61/63/65	57/59/61	60/62/64	62/64/65	60	58	58
Power supply		PhV/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	3/380-415/50	3/380-415/50	3/380-415/50
Power input		W	165	262	400	440	800	950	2900
Power input		dB(A)	37	39	45	46	46	50	54
	Outline	mm	800×879×306	800×879×306	832×1016×380	832×1016×380	1210×1215×452	1210×1215×452	1340×1550×572
Dimension (W×D×H)	Package	mm	1050×1165×315	1050×1165×315	1087×1320×400	1087×1320×400	1550×1540×470	1550×1540×470	1710×1610×700
Net weight		kg	45	45	57	57	100	100	240
Gross weight		kg	53	53	66.5	66.5	115	115	290
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

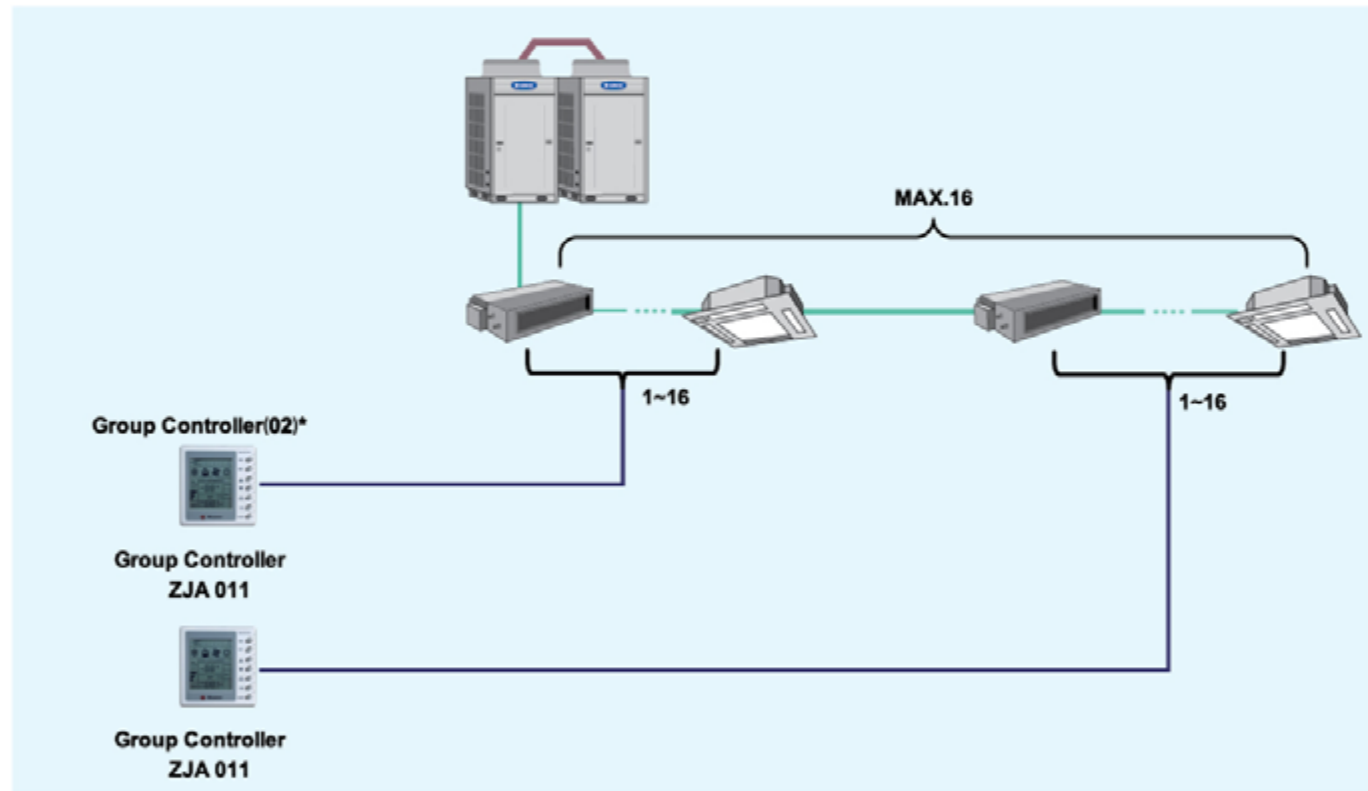
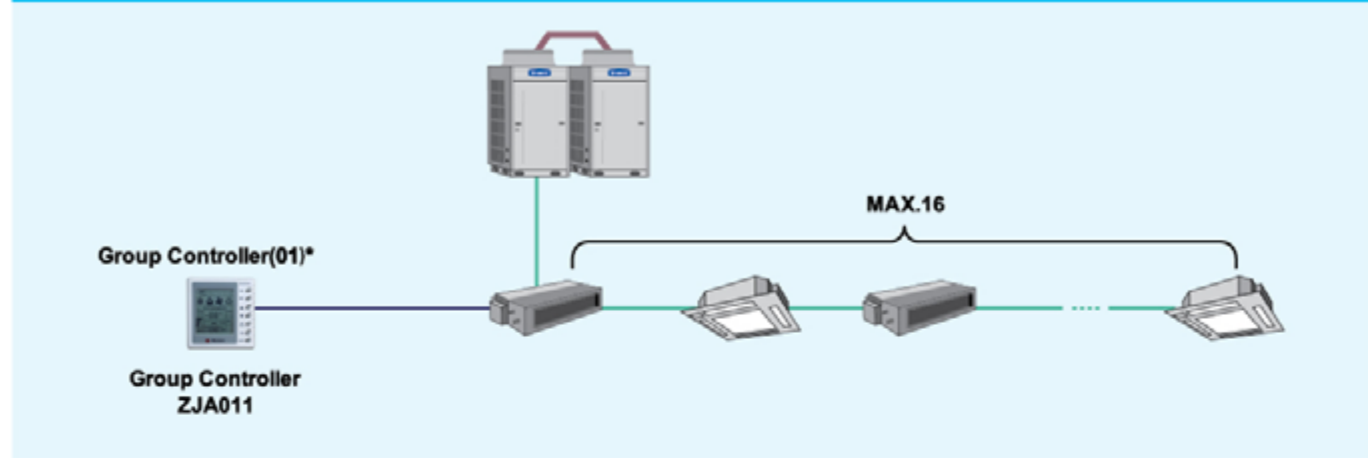
Control system	Product series	Inverter series & HOME GMV							Heat recovery series				ERV
		Duct type	Cassette type	Wall-mounted type	Floor ceiling type	Floor ceiling type	Console type	Floor standing type	Duct type	Cassette type	Floor ceiling type	Wall-mounted type	
Wireless remote controller	YB12		●	●	●				●	●	●		
	YB1FA		●	●	●		●	●	●	●			
	YB1F2							●					
Wired controller	Z63151F (Heat/Cool)		●	●	●	●	●	○	●	●	●		
	Z6351F (Heat/Cool)		●						●				
	Z5N151												●
	ZX60451		○	○	○	○	○	○	○	○	○	○	
	JS02 (Receiver)		○							○			
Centralized controller	Group controller (mini centralized controller)	ZJA011	○	○	○	○	○	○	○	○	○		
	Centralized controller(modbus)	CE51-24E(M)*	○	○	○	○	○	○	○	○	○		
	Smart zone controller	CE50-24E	○	○	○	○	○	○	○	○	○		
BMS accessories	Communication module (modbus)	ME30-00E2	○	○	○	○	○	○	○	○	○		
	Communication module (modbus)	ME30-24E2(M)	○	○	○	○	○	○	○	○	○		
	GMV BACnet gateway (BACnet)	MG30-24D1(B)**	○	○	○	○	○	○	○	○	○		
	Interface of the main board	BMS											●
Long-distance monitoring software	Gree AC Eudemon 2009*	FE30-00A(M)	○	○	○	○	○	○	○	○	○		
Other modules	Key-card control board	MK03	○	○	○	○	○	○	○	○	○		
	Optoelectronic isolated converter	RS232-RS422/485	○	○	○	○	○	○	○	○	○		○
	Optoelectronic isolated signal multiplier	RS-422/485	○	○	○	○	○	○	○	○	○		○

Note:
 ● means standard, ○ means optional.
 *1 If centralized controller CE51-24E(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 MG30-24D1(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.

GMV Control System



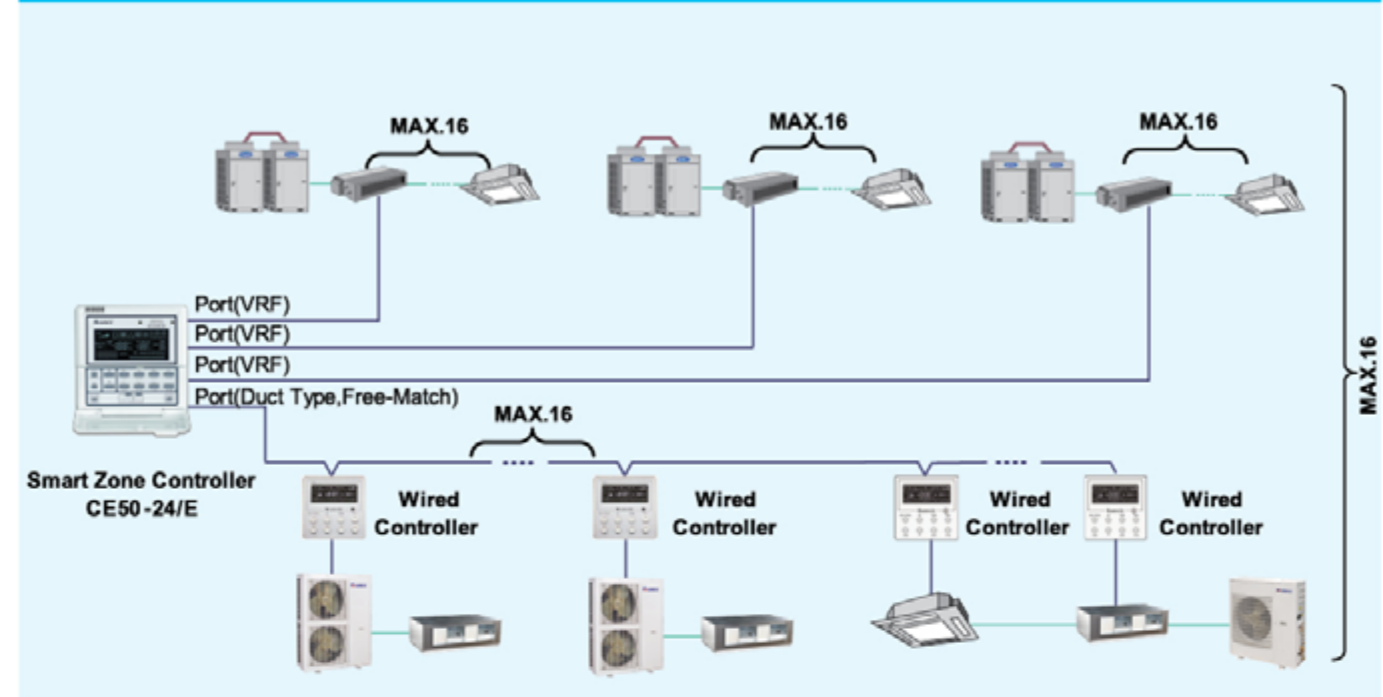
Group Control



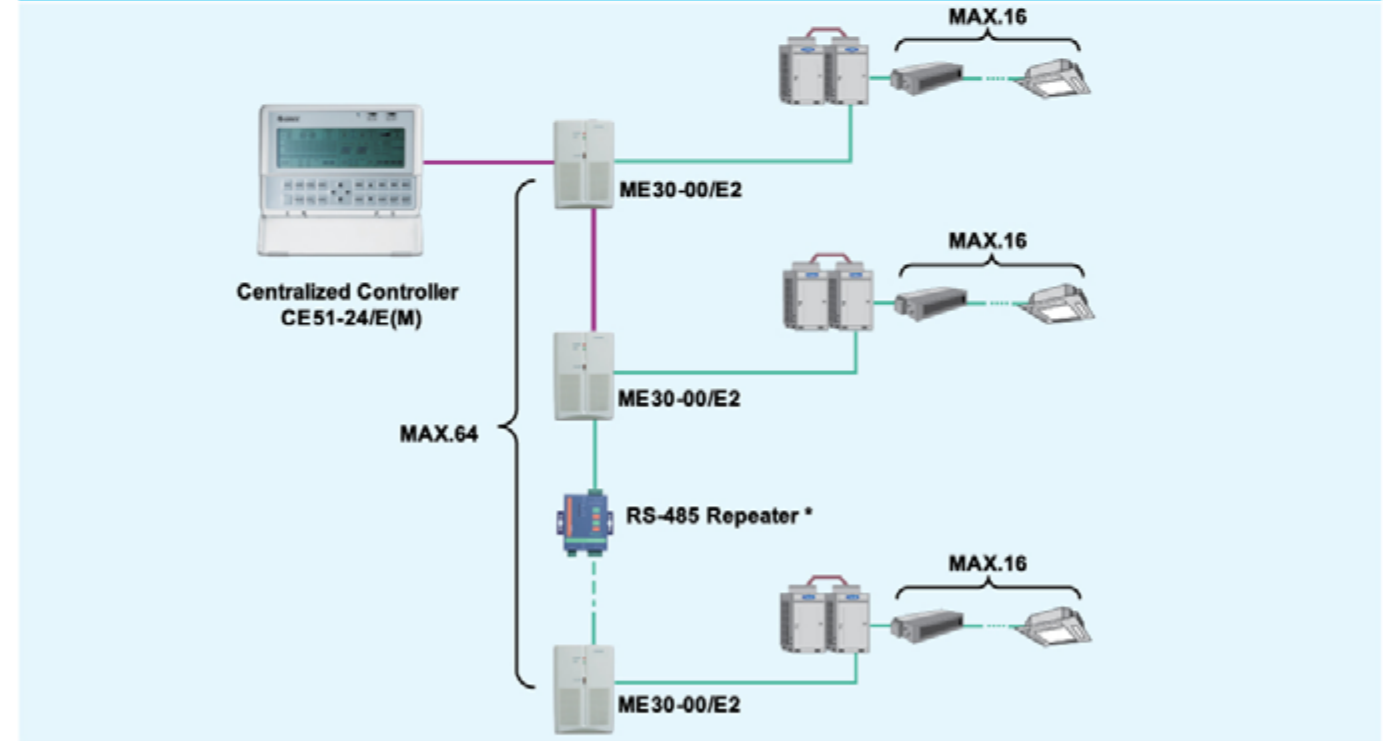
* 01 indicates the group controller working together with the individual wired controller while 02 indicates the group controller working without the individual wired controller.

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

Smart Zone Controller

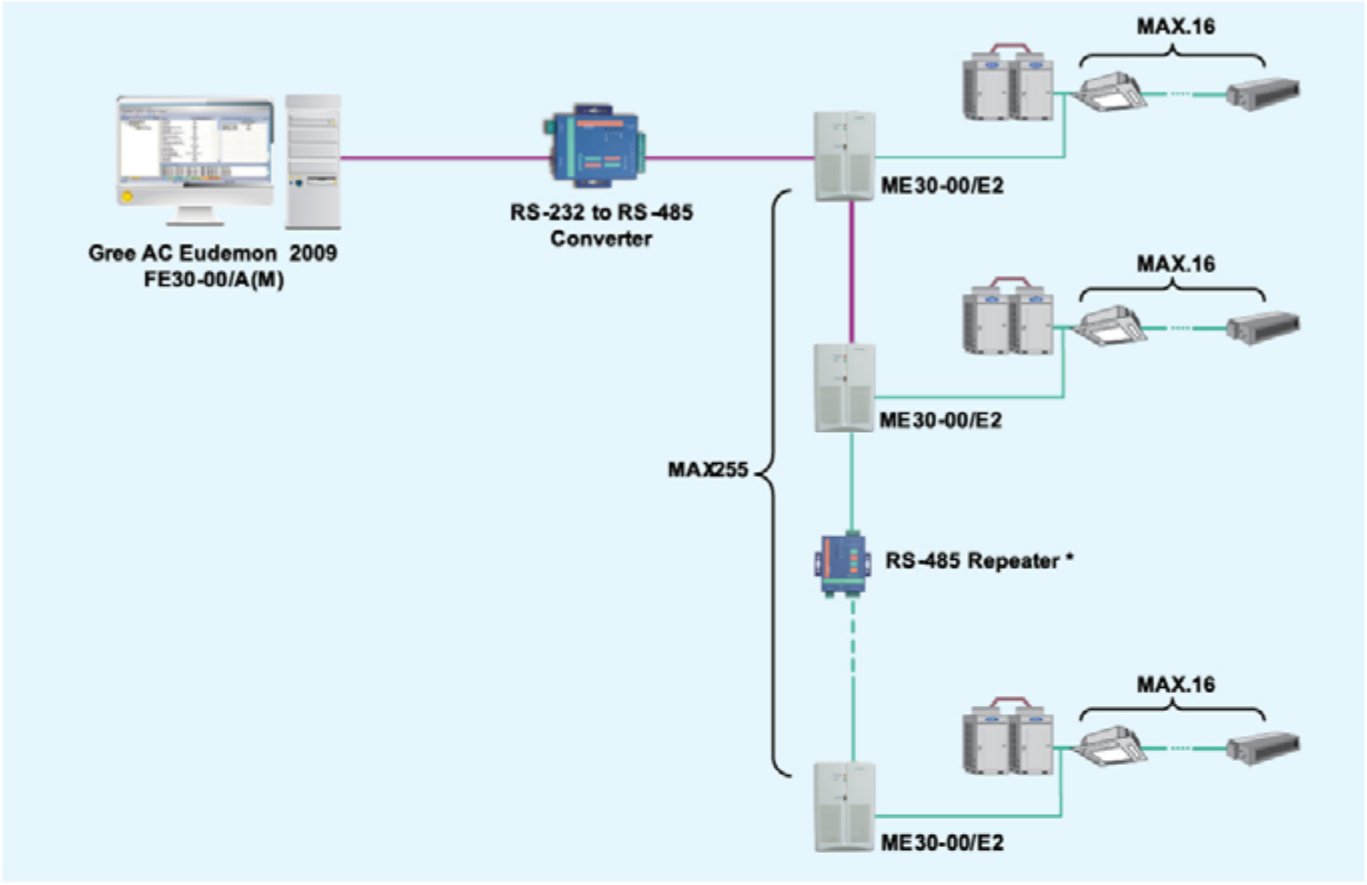


Centralized Controller



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

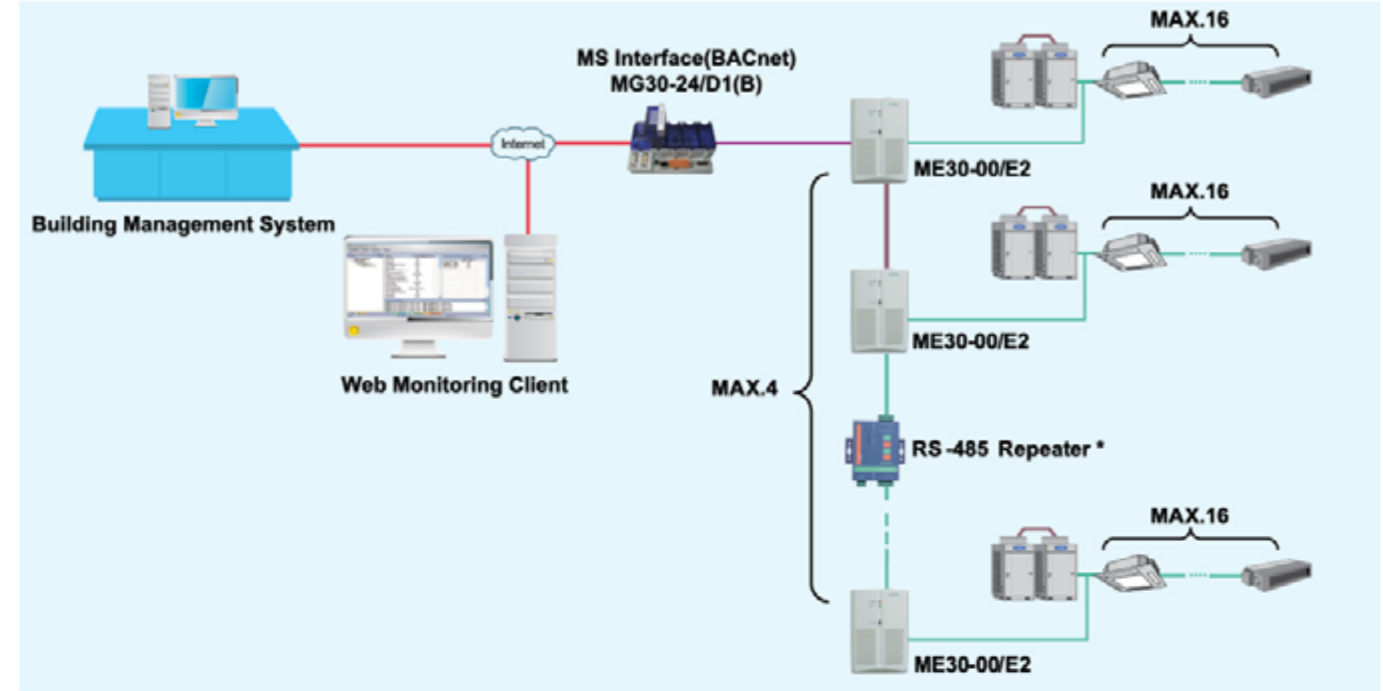
Remote Monitoring



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

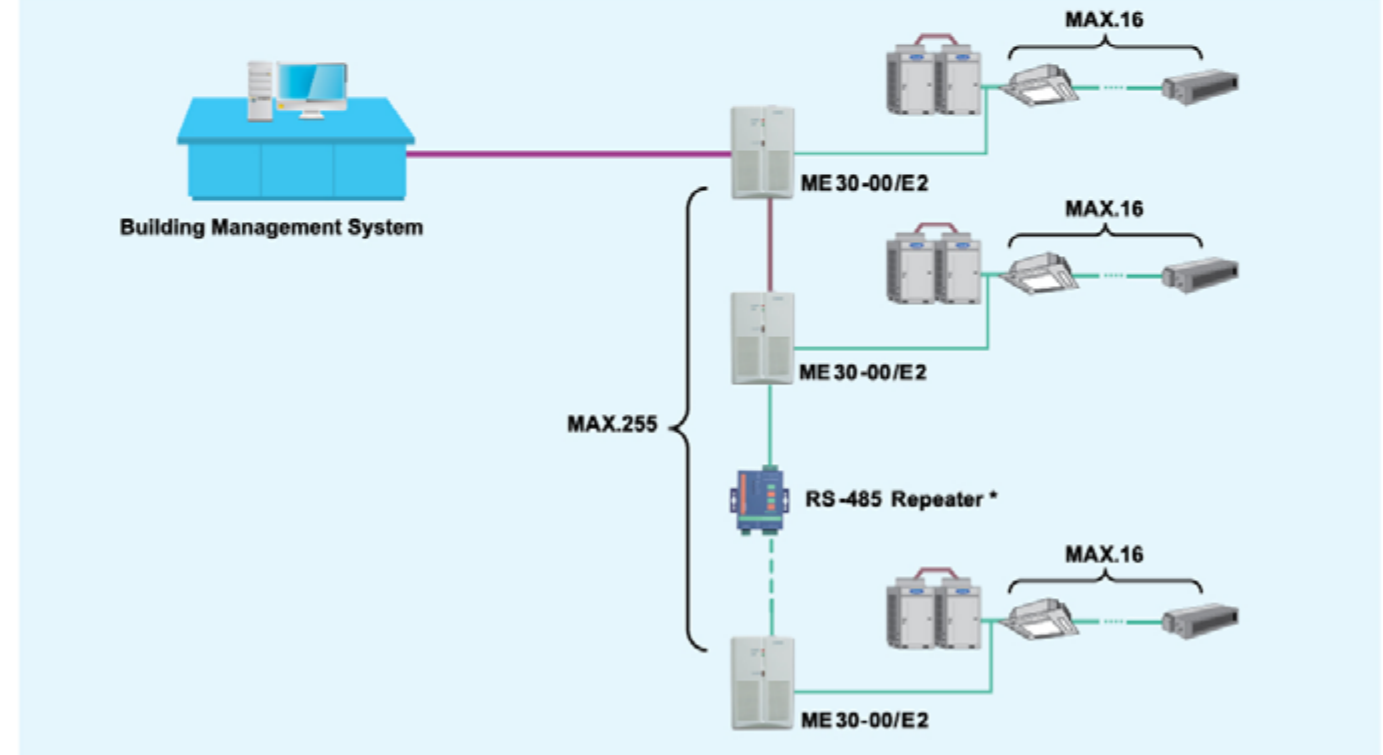
— Transmission line (GMV network)
— Modbus network

Building Automation Control (BACnet)



* It applies when the communication line exceeds 800m.

Building Automation Control (Modbus)



* 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

AIR TO WATER

Versati II
Versati II⁺ (Monobloc Type)
Split Type Water Heater
Ultra Series



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.



- 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.



Item	Nominal operating condition		Outdoor condition
	DB(°C)	WB(°C)	DB(°C)
Cooling	35	24	10-46
Heating	7	6	-20-35
Water heating	7	6	-20-45

Outdoor Unit

Model		Operation range (temperature)						
		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)	
Power supply	V/Ph/Hz	220-240V-1Ph-50Hz						
Capacity*1	Cooling*3	kW	5.8	8.5	10	12.5	13.5	14.5
	Heating*4	kW	6.2	8.5	9.6	12.5	13.5	15.5
Power input*1	Cooling*3	kW	1.53	2.54	3.28	3.57	4.09	4.53
	Heating*4	kW	1.43	2.05	2.36	2.80	3.06	3.78
EER/COP*1	W/W	3.8/4.35	3.35/4.15	3.05/4.10	3.5/4.45	3.3/4.4	3.2/4.1	
Capacity*2	Cooling*5	kW	4.2	6.2	7.5	9.5	10	10.5
	Heating*6	kW	5.4	7.5	8.5	11	12	14
Power input*2	Cooling*5	kW	1.56	2.38	3.00	3.39	3.57	3.66
	Heating*6	kW	1.74	2.50	2.79	3.14	3.36	4
EER/COP*2	W/W	2.7/3.10	2.6/3.00	2.50/3.05	2.8/3.5	2.8/3.45	2.65/3.5	
Refrigerant charge volume	kg	1.9	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)	51	54	54	55	55	57
	Heating	dB(A)	52	55	55	57	57	58
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)
Dimensions (W×D×H)	Outline	mm	980×360×790	980×360×790	980×360×790	900×412×1345	900×412×1345	900×412×1345
	Packaged	mm	1094×474×847	1094×474×847	1094×474×847	995×455×1500	995×455×1500	995×455×1500
Net weight/Gross weight	kg	77/82	78.5/83.5	78.5/83.5	106/118	106/118	106/118	
Loading quantity	40'GP	-	96	96	96	50	50	50
	40'HQ	-	96	96	96	50	50	50

Model		Operation range (temperature)			
		GRS-CQ12Pd/NaB-M(O)	GRS-CQ14Pd/NaB-M(O)	GRS-CQ16Pd/NaB-M(O)	
Power supply	V/Ph/Hz	380-415V-3Ph-50Hz			
Capacity*1	Cooling*3	kW	13.5	14.5	15
	Heating*4	kW	12.5	14.2	15.5
Power input*1	Cooling*3	kW	3.46	3.91	4.11
	Heating*4	kW	2.75	3.23	3.78
EER/COP*1	W/W	3.90/4.55	3.71/4.4	3.65/4.1	
Capacity*2	Cooling*5	kW	9.5	10.5	11.0
	Heating*6	kW	11.5	12.5	14
Power input*2	Cooling*5	kW	3.17	3.56	3.73
	Heating*6	kW	3.38	3.62	4.12
EER/COP*2	W/W	3.0/3.4	2.95/3.45	2.95/3.4	
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	56
	Heating	dB(A)	57	57	59
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 (W×D×H)	Outline	mm	900×412×1345	800×412×1345	900×412×1345
	Packaged	mm	995×455×1500	995×455×1500	995×455×1500
Net weight/Gross weight	kg	107/117	107/117	107/117	
Loading quantity	40'GP	-	50	50	50
	40'HQ	-	50	50	50

Note:

- Capacities and power inputs are based on the following conditions:
 - Cooling conditions.
 - Indoor Water Temperature 23°C/18°C.
 - Outdoor Air Temperature 35°C DB/24°C WB.
 - Heating conditions.
 - Indoor Water Temperature 30°C/35°C.
 - Outdoor Air Temperature 7°C DB/6°C WB.
 - Standing piping length 7.5m.
- Capacities and power inputs are based on the following conditions:
 - Cooling conditions.
 - Indoor Water Temperature 12°C/7°C.
 - Outdoor Air Temperature 35°C DB/24°C WB.
 - Heating conditions.
 - Indoor Water Temperature 40°C/45°C.
 - Outdoor Air Temperature 7°C DB/6°C WB.
 - Standing piping length 7.5m.

- For floor cooling.
- For floor heating.
- For fan coil unit.
- 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	1/220-240/50
Nominal input	W	3200	6200	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)				
	Heating*2	°C	25~45(Low temperature cycle)				
Pump	Type	Water-cooled					
	Nr. of speed	-	3	3	3	3	3
	Power input	W	165	200	200	200	200
	Water flow limit	LPM	12	12	12	12	12
	Operation	-	Automatic	Automatic	Automatic	Automatic	Automatic
Electric Heater	Steps	-	2	2	2	2	2
	Capacity	kW	3	6	6	6	6
	Combination	kW	1.5+1.5	3+3	3+3	3+3	3+3
	Power input	Ph/V/Hz	1/230/50	1/230/50	1/230/50	1/230/50	1/230/50
Sound pressure level	dB(A)	31	31	31	31	31	31
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)
	Liquid	inch(mm)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)
Dimensions (W×D×H)	Outline	mm	900x500x324	900x500x324	900x500x324	900x500x324	900x500x324
	Packaged	mm	1040x605x380	1040x605x380	1040x605x380	1040x605x380	1040x605x380
Net weight/Gross weight	kg	57.5/68	57.5/68	57.5/68	57.66	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	3/380-415/50
Nominal input	W	6200	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	12	12
	Operation	-	Automatic	Automatic
Electric Heater	Steps	-	1	1
	Capacity	kW	6	6
	Combination	kW	6	6
	Power input	Ph/V/Hz	3/400/50	3/400/50
Sound pressure level	dB(A)	31	31	31
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 (W×D×H)	Outline	mm	900x500x324	900x500x324
	Packaged	mm	1040x605x380	1040x605x380
Net weight/Gross weight	kg	60/69	60/69	60/69
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	Ph/V/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	mm	φ540×1595	φ540×1595	φ620×1620
	Packaged	mm	1620×625×630	1620×625×630	1645×705×710
Net weight/Gross weight	kg	68/77	71/80	82/92	87/97
Loading quantity	40'GP/40'HQ	set	75/100	63/63	63/63

Model		SXVD200LCJ/A-M	SXVD200LCJ2/A-M	SXVD300LCJ/A-M	SXVD300LCJ2/A-M
Water tank volume	L	200	200	300	300
Power supply	Ph/V/Hz	3/400/50	3/400/50	3/400/50	3/400/50
Electric heater power	W	3000	3000	3000	3000
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	mm	φ540×1595	φ540×1595	φ620×1620
	Packaged	mm	1620×625×630	1620×625×630	1645×705×710
Net weight/Gross weight	kg	68/77	71/80	82/92	87/97
Loading quantity	40'GP/40'HQ	set	75/100	63/63	63/63

VERSATI II+ (Monobloc Type)

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.



8-10kW



12-14kW



Wired controller Z263P



Floor Heating Debugging



High efficiency



Quiet function



Self-diagnosis



Wide voltage range



Comprehensive protection



Compact design

- Integral installation, convenient and cost-saving.
- Two-stage compression technology is adopted to greatly improve the system's performance, especially for improving energy efficiency of heating in low ambient temperature.
- Smart dual-temperature detection control technology.
- Solar kit linkage function is added to automatically control water heating of solar energy, energy-saving and eco-friendly.
- High outlet water temperature and wide water temperature range, meeting the demands of various terminals.



Item	Operation range (temperature)		
	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

Model		GRS-CQ8.0Pd/NaC-K(O)		GRS-CQ10Pd/NaC-K(O)		GRS-CQ12Pd/NaC-M(O)		GRS-CQ14Pd/NaC-M(O)	
Power supply		V/Ph/Hz		220-240V-1Ph-50Hz		380-415V-3Ph-50Hz			
Capacity ¹	Cooling ³	kW	8.6	9.8	13.6	14.5			
	Heating ⁴	kW	8.2	9.5	13	14.2			
Power input ¹	Cooling ³	kW	2	2.5	3.45	3.7			
	Heating ⁴	kW	1.82	2.2	2.85	3.35			
EER/COP ¹		W/W	4.3/4.51	3.92/4.3	3.94/4.56	3.92/4.24			
Capacity ²	Cooling ⁵	kW	6.7	7.4	9.55	10.3			
	Heating ⁶	kW	7.8	9.5	12.5	13			
Power Input ²	Cooling ⁵	kW	2	2.5	3.45	3.7			
	Heating ⁶	kW	1.82	2.2	3.35	3.8			
EER/COP ²		W/W	3.26/3.39	3.1/3.53	3.18/3.73	3.12/3.61			
Refrigerant charge volume		kg	3.5	3.5	4	4			
Sanitary water temperature		°C	40-80	40-80	40-80	40-80			
Sound pressure level	Cooling	dB(A)	53	53	54	54			
	Heating	dB(A)	53	53	54	54			
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)			
Dimensions (WxDxH)	Outline	mm	921×427×791	921×427×791	900×412×1345	900×412×1345			
	Packaged	mm	1065×485×840	1065×485×840	998×458×1515	998×458×1515			
Net weight/Gross weight		kg	66/71	66/71	191/209	191/209			
Loading quantity	40'GP	-	96	96	50	50			
	40'HQ	-	144	144	50	50			

Note:

- Capacities and power inputs are based on the following conditions:
 - Cooling conditions:
 - Indoor Water Temperature 23°C/18°C.
 - Outdoor Air Temperature 35°C DB/24°C WB.
 - Heating conditions:
 - Indoor Water Temperature 30°C/35°C.
 - Outdoor Air Temperature 7°C DB/6°C WB.
- Capacities and power inputs are based on the following conditions:
 - Cooling conditions:
 - Indoor Water Temperature 12°C/7°C.
 - Outdoor Air Temperature 35°C DB/24°C WB.
 - Heating conditions:
 - Indoor Water Temperature 40°C/45°C.
 - Outdoor Air Temperature 7°C DB/6°C WB.

- For floor cooling.
- For floor heating.
- For fan coil unit.
- For fan coil or radiator.

- Safety and eco-friendly**
Water and electricity are separated to avoid possible electric shock. Without possible toxicities of CO, user's safety can be ensured. No pollutant is released during operation, so there is no damage to the environment.
- Reliable and durable**
Adopting special compressor, the unit is resistant to high temp and pressure. The water tank adopts advanced stainless steel inner container with ultra-long magnesium sticks. The entire unit is with multiple protection functions to ensure long lifespan of the system.
- Easy installation**
Without limitation of environment, the unit can be installed in kitchen, garage, stock room or basement. It is also suitable for skyscrapers, villa, and so on. Installation and maintenance is convenient for its no cycle waterway system.
- Easy operation**
Water temperature can be set. Water supply can be on or off depending on water temperature and water consumption, so that hot water can be supplied at any time. Unit on/off can be set by user according to requirements (the unit will stop once water temperature reaches the setting point). Running of unit in electric platykurtosis is possible to reduce electricity fee.
- Intelligent defrosting**
The unit with anti-freezing and intelligent defrosting functions can efficiently prevent freezing and frosting.
- All-day use**
The unit can make and supply hot water all day in despite of night, overcast and rainy days.

Outdoor Unit

Model		GRS-S3.0G/NaA-K	
Rated water heating capacity	kW	2.8	
Rated water supply	L/h	60	
CDP	W/W	4	
Water temperature range	°C	35-70	
Power supply	Ph/V/Hz	220-240V/50Hz	
Rated power input	Water heating kW	0.7	
Max power input	Water heating kW	2.9	
Sound Pressure level	dB(A)	50	
Dimension(WxDxH)	Outline mm	848×320×540	
	Packaged mm	941×371×615	
Net weight/Gross weight	kg	36/42	
Loading quantity	40'GP/40'HQ	set 225/258	

Water Tank

Model		5XD200LCJWC1-K	
Volume	L	200	
Dimension	Diameter	mm 545	
	Height	mm 1919	
	Package(WxDxH)	mm 2009×658×625	
Water pipes diameter	Cool water inlet	inch 0.59	
	Hot water outlet	inch 0.59	
Net weight/Gross weight	kg	52/60	
Loading quantity	40'GP/40'HQ	set 51/68	

Note: Testing conditions of above data: Outdoor ambient temperature 20°C DB/15°C WB; initial/terminative water temperature in water tank: 15°C/55°C. If the specifications are changed due to product improvement, please refer to the parameters on the nameplate.

Split Type Water Heater

High-temperature split type air source water heater can operate from -7°C to 45°C. Its installation is convenient and it is applicable for a family of 3 to 5 members.



Controller XK64



Self-diagnosis



°C/°F switch



Inner groove copper



Compact design



Clock display



Intelligent defrosting



Easier maintainability



Child lock



Intelligent defrosting

Ultra Series

Ultra series water heater is capable of operation in ambient temperature from -26°C to 46°C with the maximum outlet water temperature of 70°C. It is with multiple protection functions and intelligent management functions to ensure safety, reliable and energy-saving operation of unit.



GRS-Dm30/NaA-M
GRS-Dm40/NaA-M



GRS-Dm60/NaA-M



Wired controller Z26301K

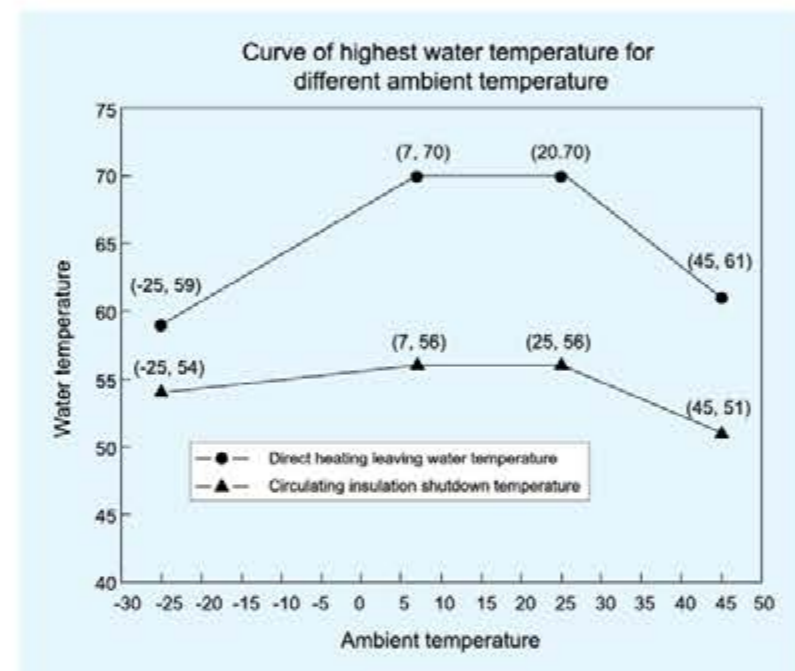
- High efficiency
- Low temperature heating
- Low voltage startup
- Compact design
- Intelligent defrosting
- Wide voltage range
- Easier maintainability
- Intelligent defrosting
- Comprehensive protection
- Wide operation range
- Modular operating

- Grounding protection: The system is with multiple grounding protection to avoid electric leakage.
- Electric leakage protection: The electric leakage switch will automatically cut off the power supply when there is electric leakage, in order to ensure safety.
- Over-current protection: The system will turn off automatically in overload, in order to ensure safety of the system.
- High pressure protection: Protection in overhigh pressure ensures the reliability of the system.
- Low pressure protection: It avoids no-load operation to ensure the reliability of the system.
- High temperature protection: It avoid the influence of overhigh discharge temperature to ensure the lubrication effect of compressor lubricant.
- Water pressure protection: It restricts the lowest water pressure to ensure high-efficiency operation of the system.
- Water flow protection: It detects the water flow to avoid no water operation.
- Anti-freezing protection: It is with multiple anti-freezing design to ensure reliable operation of the system in ultra-low ambient temperature.
- Overflowing protection: It detects the water level automatically to avoid overflowing of water tank.

Model		GRS-Dm30/NaA-M	GRS-Dm40/NaA-M	GRS-Dm60/NaA-M
Rated water heating capacity	kW	31	40	60
Rated water supply	l/h	667	860	1300
COP	W/W	3.83	4	4
Water temperature range	°C	35-70	35-70	35-70
Power supply	PtV/Hz	3/380-415/50	3/380-415/50	3/380-415/50
Rated power input	Water heating kW	8.1	10	15
Max power input	Water heating kW	10.5	13	20
Sound Pressure level	Db(A)	≤67	≤67	≤67
Dimension(W×D×H)	Outline mm	930×800×1605	930×800×1605	1340×800×1605
	Packaged mm	1010×865×1775	1010×865×1775	1420×860×1775
Net weight/Gross weight	kg	238/252	264/286	362/378
Loading quantity	40'GP/40'HQ set	26/26	26/26	21/21

Note:

1. Testing conditions of above data: Ambient temperature 20°C DB/15°C WB; entering/leaving water temperature: 15°C/55°C; power supply: 380V 3N/50HZ;
2. Considering the system reliability and various water temperature demands for different ambient temperature, we have limited the highest water temperature. The curve is shown as below.



SCROLL CHILLER

Inverter Mini Chiller

Mini Chiller

Modular Air-cooled Scroll Chiller



Inverter Mini Chiller

Inverter mini chiller, is a kind of small-size air-cooled chiller that can be connected to all sorts of fan coil unit to realize cooling and heating. It can be used on the temperature range of -15~48°C.



- Inner groove copper
- Self-diagnosis
- Comprehensive protection
- Memory function

- Compressor inverter control regulates water temperature precisely.
- Integral installation is convenient and cost-saving.
- Precise system pressure control improves the anti-freezing function of the system.
- Two-stage compression technology is adopted to greatly improve the system's performance.



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	24	10~48
Heating	40	45	45~50	3~8	7	6	-20~35

Model	Heat pump		HLR8Pd/Na-M	HLR10Pd/Na-M	HLR12Pd/Na-M	HLR14Pd/Na-M
Capacity	Cooling	kW	7.20	10.00	12.50	14.00
	Heating	kW	7.8	11	13	15
EER/COP		WW	3.27/3.39	2.8/3.1	2.8/3.1	2.8/3.1
Power supply		V/Ph/Hz	220~240V-1Ph-50Hz		380~415V-3Ph-50Hz	
Power input	Cooling	kW	2.2	2.55	2.9	3.2
	Heating	kW	2.3	2.7	3.2	3.6
Compressor	Type	-	Rotary	Rotary	Rotary	Rotary
	Quantity	-	1	1	1	1
Refrigerant charge volume		kg	3.5	3.5	4	4
Water flow volume		l/s	0.39	0.47	0.61	0.72
		GPM	5	6.3	7.79	9.5
Build-in chilled water pump	Pump power input	kW	0.105	0.105	0.105	0.105
	Delivery lift	m	7.5	7.5	7.5	7.5
Build-in expansion vessel volume		L	10	10	10	10
Chilled water outlet/inlet screw thread spec		inch	5/8	5/8	5/8	5/8
Sound pressure level		Db(A)	53	53	54	54
Dimension (W×D×H)	Outline	mm	980*790*360	980*790*360	980*790*360	980*790*360
	Packaged	mm	1094*474*847	1094*474*847	1094*474*847	1094*474*847
Net weight/Gross weight		kg	85/100	85/100	191/209	191/209
Loading quantity	40'GP/40'HQ	set	87/87	87/87	87/87	87/87

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.



- 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).



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

Split type

Model	Heat pump		HLR14WZNa-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	6.7	
	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	
	Sound pressure level	dB(A)	38	38	38	38	
Indoor unit	Dimension (W×D×H)	Outline	mm	1100×450×288	1100×450×288	1100×450×288	1100×450×288
		Packaged	mm	1285×682×385	1285×682×385	1285×682×385	1285×682×385
	Net weight/Gross weight		kg	84/96	84/96	84/96	84/96
		Sound pressure level	dB(A)	60	60	60	60
Outdoor unit	Dimension (W×D×H)	Outline	mm	950×412×840	950×412×1250	950×412×1250	950×412×1250
		Packaged	mm	1110×450×985	1110×450×1385	1110×450×1385	1110×450×1385
	Net weight/Gross weight		kg	90/100	112/123	115/129	119/129
		Outer diameter of connection pipe	inch(mm)	φ1/2(12.7)	φ1/2(12.7)	φ1/2(12.7)	φ1/2(12.7)
Loading quantity	40"GP/40"HQ	set	52/52	63/64	63/64	63/64	
	Wired						
Standard controller				Z16301			

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

Integral type

Model	Heat pump		HLR22SNa-M	HLR25SNa-M	HLR35SNa-M	HLR45SNa-M	HLR35SM/NaA-M
Capacity	Cooling	kW	21.5	22.8	31	42	31
	Heating	kW	25	25	37.5	49	38
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	3.6×2	4.8×2	6.5×2	7.3×2	6.5×2
Water flow volume		l/s	0.92	1.2	1.4	2.2	—
		GPM	4.06	5.29	6.17	9.7	—
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 (W×D×H)	Outline	mm	1460×530×1850	1460×530×1850	1750×800×1760	1750×800×1760	1750×800×1760
	Packaged	mm	1540×710×2100	1540×710×2100	1910×960×1970	1910×960×1970	1910×960×1970
Net weight/Gross weight		kg	380/387	380/392	680/690	755/765	600/610
Loading quantity	40"GP/40"HQ	set	25/25	25/25	12/12	12/12	—
Standard controller	Wired				Z12301A		Z26301C

Modular Air-cooled Scroll Chiller

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

D Series



- Golden fin condenser
- Inner groove copper
- Modular structure
- Comprehensive protection
- Self-diagnosis
- Easier maintainability
- Memory function
- 24 hour timer

- Running condition real-time display.
- Low start-up current thanks to power delay control design.
- Use U-type heat exchange tube to improve the heat-exchange efficiency of the complete unit;
- Special equalizing plate design of shell and tube: the distribution of refrigerant is more even for improving the heat-exchanging efficiency of the complete unit.
- 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.

* This photo is for reference only.



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)	ΔT difference(°C)	DB(°C)	WB(°C)	DB(°C)
Cooling	12	7	5-15	2.5-6	35	-	18-45
Heating	40	45	40-50	2.5-6	7	6	-15-24

Model	Heat pump		LSQWRP63M/NaD-H	LSQWRP83M/NaD-H	LSQWRP103M/NaD-H	LSQWRP123M/NaD-H	LSQWRP143M/NaD-H	LSQWRP163M/NaD-H	LSQWRP183M/NaD-H	LSQWRP203M/NaD-H	
Capacity	Cooling/Heating	kW	60/65	71/79.5	120/130	145/170	235/260	300/330	360/390		
		RT	17.06/18.51	20.22/22.64	34.17/37.02	41.29/48.41	66.91/74.03	85.42/93.96	102.51/111		
Capacity steps		%	0-50%-100%			0-25%-50%-75%-100%			0-25%-50%-100%		
EER/COP		W/W	2.84/3.09	2.76/2.94	2.84/2.93	2.74/3.04	2.72/3.02	2.71/3.0	2.72/3.02		
Power supply		V/Ph/Hz	380V-3Ph-60Hz						380V-415V-3Ph-50Hz		
Power input	Cooling	kW	21.1	25.7	42.3	53	86	107.5	129		
	Heating	kW	21	27	44.4	56	86.7	108.5	130.1		
Compressor	Type		Constant Speed Scroll								
	Starting mode		Direct Starting								
	Quantity		2	2	4	4	4	5	6		
Water side heat exchanger	Type		High-efficient shell and tube heat exchanger								
	Water flow volume	l/s	2.87	3.39	5.73	6.93	11.2	14.3	17.2		
		GPM	37.91	44.78	75.69	91.55	147.95	188.9	227.21		
	Pressure drop	kPa	15	20	30	35	65	70	80		
		fLWG	4.92	6.56	9.84	11.48	21.32	22.96	26.24		
Air side heat exchanger	Connection pipe		DN65			DN80		DN100			
	Type		Aluminum Fin-copper Tube								
	Fan type and quantity		Axial-flow/2	Axial-flow/2	Axial-flow/4	Axial-flow/4	Axial-flow/8	Axial-flow/10	Axial-flow/12		
	Total fan air flow	L/s	2×0.375×10 ⁴	2×0.4167×10 ⁴	4×0.375×10 ⁴	4×0.4167×10 ⁴	8×0.4028×10 ⁴	10×0.4028×10 ⁴	12×0.4028×10 ⁴		
	CFM	2×0.795×10 ⁴	2×0.882×10 ⁴	4×0.795×10 ⁴	4×0.882×10 ⁴	8×0.853×10 ⁴	10×0.853×10 ⁴	12×0.853×10 ⁴			
	Total fan motor power	kW	2×0.650	2×0.950	4×0.650	4×0.950	8×0.650	10×0.650	12×0.65		
Sound pressure level	dB(A)	70	71	72	74	65	67	69			
Dimension	Outline(W×D×H)	mm	2040×1000×2230	2040×1000×2230	2278×1830×2278	2278×1830×2278	2200×3800×2425	2200×4750×2425	2200×5700×2425		
	Package(W×D×H)	mm	2120×1080×2230	2120×1080×2230	2388×1910×2278	2388×1910×2278	2280×3880×2425	2280×4830×2425	2280×5780×2425		
Net/Gross/Operating weight	kg	710/715	760/765	1370/1375	1440/1445	5400	6750	8100			
Loading quantity	40"GP/40"HQ	set	10	10	4	4	3	2	1		

SCREW CHILLER

Modular Air-cooled Screw Chiller
Water-cooled Screw Chiller



Modular Air-cooled Screw Chiller

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.



*: 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
	Inlet(°C)	Outlet(°C)	Outlet(°C)	ΔT difference(°C)	DB(°C)	WB(°C)	DB(°C)
Cooling	12	7	5-15	2.5-8	35	-	18-52
Heating	40	45	40-50	2.5-8	7	6	-15-24

Model	Cooling only Heat pump		LSBLGF230MT3/NbA-M* LSBLGRF230MT3/NbA-M*1		LSBLGF330MT3/NbA-M* LSBLGRF330MT3/NbA-M*1		LSBLGF430MT3/NbA-M LSBLGRF430MT3/NbA-M				
			Capacity	Capacity steps	EER/COP*	Power supply	Power input	Compressor	Water side heat exchanger	Air side heat exchanger	Sound pressure level
Capacity	Cooling/Heating*	kW	220/245	320/355	420/450						
Capacity steps		RT	63/70	91/101	119/128						
EER/COP*		%	25, 50-100	25, 50-100	25, 50-100						
EER/COP*		W/W	2.72/2.88	2.67/2.91	2.66/2.92						
Power supply		Ph/V/Hz	3/380/50	3/380/50	3/380/50						
Power input	Cooling	kW	81	120	158						
Power input	Heating*	kW	85	122	154						
Compressor	Type	-	semi-hermetic screw	semi-hermetic screw	semi-hermetic screw						
Compressor	Starting mode	-	Star Delta Start	Star Delta Start	Star Delta Start						
Compressor	Quantity	-	1	1	1						
Water side heat exchanger	Type	-	Dry expansion evaporator	Dry expansion evaporator	Dry Expansion Evaporator						
Water side heat exchanger	Water flow volume	m³/h	37.8	55.0	72.2						
Water side heat exchanger		GPM	167	243	318						
Water side heat exchanger	Pressure drop	kPa	≤50	≤50	≤50						
Water side heat exchanger		ft.WG	≤16.4	≤16.4	≤16.4						
Water side heat exchanger	Connection pipe	-	DN100	DN100	DN125						
Air side heat exchanger	Type	-	Aluminum Fin-copper Tube	Aluminum Fin-copper Tube	Aluminum Fin-copper Tube						
Air side heat exchanger	Fan type and quantity	-	axial×6	axial×8	axial×10						
Air side heat exchanger	Total fan air flow	m³/h	12×10 ⁴	16×10 ⁴	20×10 ⁴						
Air side heat exchanger		CFM	70634	94179	117724						
Air side heat exchanger	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						
Dimension	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	-						
Net/Gross/Operating weight	Heat pump	kg	4020/4040/4422	5270/5290/5797	5950/5970/6545						
Loading quantity	40'GP/40'HQ	set	0/2	0/2	0/1						

Model	Cooling only		LSBLGF430MT3/NbA-M*1		LSBLGF600MT3/NbA-M*1		LSBLGF900MT3/NbA-M				
			Capacity	Capacity steps	EER/COP*	Power supply	Power input	Compressor	Water side heat exchanger	Air side heat exchanger	Sound pressure level
Capacity	Cooling/Heating*	kW	420/450	570	880						
Capacity steps		RT	119/128	162/-	250/-						
EER/COP*		%	25.50-100	12.5.25-100	12.5.25-100						
EER/COP*		W/W	2.8	2.65	2.80						
Power supply		Ph/V/Hz	3/380/50	3/380/50	3/380/50						
Power input	Cooling	kW	150	215	314						
Power input	Heating*	kW	-	-	-						
Compressor	Type	-	Semi-hermetic screw	Semi-hermetic screw	Semi-hermetic screw						
Compressor	Starting mode	-	Star Delta Start	Star Delta Start	Star Delta Start						
Compressor	Quantity	-	1	2	2						
Water side heat exchanger	Type	-	Dry Expansion Evaporator	Dry Expansion Evaporator	Dry Expansion Evaporator						
Water side heat exchanger	Water flow volume	m³/h	72.2	98.0	151.4						
Water side heat exchanger		GPM	318	432	667						
Water side heat exchanger	Pressure drop	kPa	≤50	≤55	≤75						
Water side heat exchanger		ft.WG	≤16.4	≤21.32	≤24.60						
Water side heat exchanger	Connection pipe	-	DN125	DN150	DN150						
Air side heat exchanger	Type	-	Aluminum Fin-copper Tube	Aluminum Fin-copper Tube	Aluminum Fin-copper Tube						
Air side heat exchanger	Fan type and quantity	-	axial×10	axial×12	axial×16						
Air side heat exchanger	Total fan air flow	m³/h	20×10 ⁴	264000	352000						
Air side heat exchanger		CFM	117724	70634	94179						
Air side heat exchanger	Total fan motor power	kW	1.5×10	2.2×12	2.2×16						
Sound pressure level		dB(A)	80	82	84						
Dimension	Outline(W×D×H)	mm	6000×2250×2550	7450×2250×2550	9620×2250×2550						
Dimension	Package(W×D×H)	mm	6080×2330×2550	7530×2330×2550	9700×2330×2550						
Net/Gross/Operating weight		kg	5600/5620/6160	8080/8100/8888	11400/11480/12540						
Loading quantity	40'GP/40'HQ	set	0/1	0/1	0/1						

Note: EER/COP Applicable Standard Eurovent
 * Only available for heat pump model.
 *1: This series are certified by Eurovent and AHRI.
 *2: This series is certified by Eurovent, AHRI and CE.

High-efficiency Modular Air-cooled Screw Chiller

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



320/420/500/580MH/NbA-M



650/750/860/950MH/NbA-M



1050/1160/1320/1520MH/NbA-M

Note: Photos are for reference only.



- Thanks to V type fin structure, unit features small refrigerant pressure loss and high efficiency.
- With flooded type shell-and-tube design, evaporating temperature is increased, hence improving the heat exchanging efficiency and energy efficiency.
- Unit adopts low noise fan blades and specialized compressor noise reduction device, therefore sound level is at least 5dB(A) lower than the 2nd generation.
- Due to the totally-enclosed design, its appearance is harmonious and nice-looking.

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)	ΔD difference(°C)	DB(°C)	WB(°C)	DB(°C)
Cooling	12	7	5-15	2.5-8	35	—	18-52
Heating	40	45	45-50	2.5-8	7	6	-15-24

Model	Cooling only		LSBLGF320 MH/NbA-M*	LSBLGF420 MH/NbA-M*	LSBLGF500 MH/NbA-M*	LSBLGF580 MH/NbA-M*	LSBLGF650 MH/NbA-M*	LSBLGF750 MH/NbA-M*
Capacity	Cooling	KW	320	420	500	580	650	750
		RT	91.0	119.4	142.2	164.9	184.8	213.3
Capacity steps		%	25%, 50%~100%	25%, 50%~100%	25%, 50%~100%	25%, 50%~100%	25%, 25%~100%	25%, 25%~100%
EER/COP*		WW	3.20	3.23	3.27	3.28	3.25	3.26
Power supply		Ph/V/Hz	3/380/50	3/380/50	3/380/50	3/380/50	3/380/50	3/380/50
Power input	Cooling	KW	100	130	153	177	200	230
	Heating*	KW	/	/	/	/	/	/
Compressor	Type		Semi-hermetic screw	Semi-hermetic screw	Semi-hermetic screw	Semi-hermetic screw	Semi-hermetic screw	Semi-hermetic screw
	Starting mode		Star Delta Start	Star Delta Start	Star Delta Start	Star Delta Start	Star Delta Start	Star Delta Start
	Quantity		1	1	1	1	2	2
Water side heat exchanger	Type		Flooded Evaporator					
	Water flow volume	m ³ /h	55.0	72.2	86.0	99.8	111.8	129.0
		GPM	243	319	379	440	493	569
	Pressure drop	kPa	≤50	≤50	≤55	≤60	≤60	≤60
		ft.WG	≤16.4	≤16.4	≤16.04	≤19.68	≤19.68	≤19.68
Connection pipe		DN100	DN125	DN125	DN150	DN150	DN150	
Air side heat exchanger	Type		Aluminum Fin-copper Tube					
	Fan type and quantity		axial*6	axial*8	axial*10	axial*12	axial*12	axial*14
	Total fan air flow	m ³ /h	120000	180000	200000	240000	240000	280000
		CFM	70634	94179	117724	141268	141268	164813
	Total fan motor power	KW	1.5*6	1.5*8	1.5*10	1.5*12	1.5*12	1.5*14
Sound pressure level		dB(A)	77	78	79	81	82	82
Dimension	Outline(W*D*H)	mm	3660X2250X2500	4880X2250X2500	6100X2250X2500	7320X2250X2500	7320X2250X2500	8540X2250X2500
	Package(W*D*H)	mm	3700X2250X2550	4920X2250X2550	6140X2250X2550	7360X2250X2550	7360X2250X2550	8580X2250X2550
Net/Gross/Operating weight		kg	3650/3690/4015	4650/4690/5115	5550/5590/6105	6450/6490/7095	7250/7290/7975	8350/8390/9185
Loading quantity		set	0/2	0/2	0/1	0/1	0/1	0/1

Model	Cooling only		LSBLGF860 MH/NbA-M*	LSBLGF950 MH/NbA-M*	LSBLGF1050 MH/NbA-M*	LSBLGF1160 MH/NbA-M*	LSBLGF1320 MH/NbA-M*	LSBLGF1520 MH/NbA-M*
Capacity	Cooling	KW	860	950	1050	1160	1320	1520
		RT	244.5	270.1	298.6	329.9	375.4	432.2
Capacity steps		%	12.5%, 25%~100%	12.5%, 25%~100%	12.5%, 25%~100%	8.3%, 16.7%~100%	12.5%, 25%~100%	6.25%, 12.5%~100%
EER/COP*		WW	3.41	3.39	3.28	3.31	3.34	3.38
Power supply		Ph/V/Hz	3/380/50	3/380/50	3/380/50	3/380/50	3/380/50	3/380/50
Power input	Cooling	KW	252	280	320	350	395	450
	Heating*	KW	/	/	/	/	/	/
Compressor	Type		Semi-hermetic screw	Semi-hermetic screw	Semi-hermetic screw	Semi-hermetic screw	Semi-hermetic screw	Semi-hermetic screw
	Starting mode		Star Delta Start	Star Delta Start	Star Delta Start	Star Delta Start	Star Delta Start	Star Delta Start
	Quantity		2	2	2	3	4	4
Water side heat exchanger	Type		Flooded Evaporator					
	Water flow volume	m ³ /h	147.9	163.4	180.6	199.5	227.0	261.4
		GPM	652	720	796	880	1001	1153
	Pressure drop	kPa	≤70	≤70	≤80	≤85	≤100	≤100
		ft.WG	≤22.96	≤22.96	≤22.96	≤24.6	≤26.24	≤26.24
Connection pipe		DN200	DN200	DN200	DN200	DN200	DN200	
Air side heat exchanger	Type		Aluminum Fin-copper Tube					
	Fan type and quantity		axial*16	axial*18	axial*20	axial*22	axial*24	axial*28
	Total fan air flow	m ³ /h	320000	360000	400000	440000	480000	560000
		CFM	188358	211902	235447	258992	282536	329626
	Total fan motor power	KW	1.5*16	1.5*18	1.5*20	1.5*22	1.5*24	1.5*28
Sound pressure level		dB(A)	83	83	84	84	85	85
Dimension	Outline(W*D*H)	mm	9760X2250X2500	10980X2250X2500	12200X2250X2500	13420X2250X2500	14640X2250X2500	17080X2250X2500
	Package(W*D*H)	mm	9800X2250X2550	11020X2250X2550	12240X2250X2550	13460X2250X2550	14680X2250X2550	17120X2250X2550
Net/Gross/Operating weight		kg	9550/9590/10505	10650/10690/11715	11750/11690/12925	13000/13080/14300	14750/14830/16225	16950/17030/18645
Loading quantity		set	0/1	0/1	0/0	0/0	0/0	0/0

Note: * This product is under development. The parameters are estimated, please refer to the value on the nameplate.

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.



- 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)	Inlet(°C)	I/O difference(°C)
12	7	30	35	4~15	2.5~8	18~35	3.5~8

Model		LSBL0180H/Nb-M	LSBL0210H/Nb-M	LSBL0240H/Nb-M	LSBL0300H/Nb-M	LSBL0340H/Nb-M	LSBL0380H/Nb-M	
Cooling capacity	kW	175	202	231	292	331	376	
	RT	49.76	57.44	65.89	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						
	Charge volume	L	15	15	15	19	19	19
Evaporator	Type	Flooded Evaporator						
	Fouling factor	m ² ·c/W	0.086	0.086	0.086	0.086	0.086	0.086
	Water flow volume	m ³ /h	30	35	40	50	57	65
		GPM	132	154	176	220	251	287
	Pressure drop	kPa	40	45	50	60	60	62
		f.WG	13.12	14.76	16.40	19.68	19.68	20.34
Condenser	Type	Shell and tube						
	Fouling factor	m ² ·c/W	0.086	0.086	0.086	0.086	0.086	0.086
	Water flow volume	m ³ /h	38	43	50	63	71	81
		GPM	168	190	220	278	313	357
	Pressure drop	kPa	56	57	65	65	66	67
		f.WG	18.37	18.70	21.32	21.32	21.85	21.98
Sound pressure level	dB(A)	76.2	76.6	77.4	80.1	81.2	83.3	
Outline dimension (WxDxH)	mm	3160×1150×1587	3160×1150×1587	3160×1150×1587	3160×1400×1680	3160×1400×1680	3160×1400×1720	
Net/Gross/Operating weight	kg	1800/1850/1890	1900/1950/1995	2100/2150/2205	2800/2850/2940	2900/2950/3045	3100/3150/3255	
Loading quantity	40GP40HQ	set	3/3	3/3	3/3	3/3	3/3	

Model		LSBL0450H/Nb-M	LSBL0500H/Nb-M	LSBL0580H/Nb-M	LSBL0640H/Nb-M	LSBL0680H/Nb-M	LSBL0780H/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			Part winding start			
	Quantity	1	1	1	1	2	2	
Refrigerant charge volume	kg	210	210	210	200	240	240	
Refrigeration oil	Type	BSE170						
	Charge volume	L	35	35	35	35	19	19
Evaporator	Type	Flooded Evaporator						
	Fouling factor	m ² ·c/W	0.086	0.086	0.086	0.086	0.086	0.086
	Water flow volume	m ³ /h	76	85	98	109	116	129
		GPM	335	375	432	481	511	569
	Pressure drop	kPa	64	66	68	74	76	78
		f.WG	20.99	21.65	22.30	24.27	24.93	24.93
Condenser	Type	Shell and tube						
	Fouling factor	m ² ·c/W	0.086	0.086	0.086	0.086	0.086	0.086
	Water flow volume	m ³ /h	95	108	123	137	145	162
		GPM	419	467	542	604	639	714
	Pressure drop	kPa	69	71	72	73	76	77
		f.WG	22.63	23.29	23.62	23.94	24.93	25.26
Sound pressure level	dB(A)	83.9	84.1	84.3	85.4	82.5	84.6	
Outline dimension (WxDxH)	mm	3160×1520×2130	3160×1520×2130	3160×1520×2130	3160×1520×2130	3400×1700×2030	3400×1700×2030	
Net/Gross/Operating weight	kg	3850/3900/4043	4100/4160/4305	4400/4460/4620	4600/4660/4830	5100/5160/5355	5500/5600/5775	
Loading quantity	40GP40HQ	set	3/3	3/3	3/3	3/3	3/3	

Model		LSBL0800H/Nb-M	LSBL1000H/Nb-M	LSBL1160H/Nb-M	LSBL1280H/Nb-M	LSBL1400H/Nb-M	
Cooling capacity	kW	871	990	1144	1275	1485	
	RT	247.68	281.51	325.30	362.66	396.68	
Capacity steps	%	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	5.60	
IPLV	W/W	5.94	5.97	5.82	5.98	5.99	
Power supply	Ph/V/Hz	3/380-415/50	3/380-415/50	3/380-415/50	3/380-415/50	3/380-415/50	
Power input	kW	163	186	214	245	285	
RLA	A	136.5	154.3	169.6	199.4	223.0	
LRA	A	318A Y/1182A D	436A Y/1364A D	465A Y/1442A D	586A Y/1853A D	650A Y/2029A D	
Compressor	Type	Semi-hermetic twin screw comp.					
	Starting mode	Y-Δ					
	Quantity	2	2	2	2	2	
Refrigerant charge volume	kg	350	350	350	350	450	
Refrigeration oil	Type	BSE170					
	Charge volume	L	35	35	35	35	38
Evaporator	Type	Flooded Evaporator					
	Fouling factor	m ² ·c/W	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
		f.WG	24.93	25.26	25.58	25.58	26.24
Condenser	Type	Shell and tube					
	Fouling factor	m ² ·c/W	0.086	0.086	0.086	0.086	0.086
	Water flow volume	m ³ /h	187	213	246	274	300
		GPM	825	939	1085	1208	1323
	Pressure drop	kPa	82	83	84	85	87
		f.WG	26.90	27.22	27.55	27.88	28.54
Sound pressure level	dB(A)	85.2	85.4	85.6	86.8	87.5	
Outline dimension (WxDxH)	mm	4150×2020×2230	4150×2020×2230	4150×2020×2230	4150×2020×2230	4900×2000×2230	
Net/Gross/Operating weight	kg	6200/6300/6510	6500/6600/6825	6800/6900/7140	7000/7150/7350	8000/8200/8400	
Loading quantity	40GP40HQ	set	3/3	3/3	3/3	3/3	

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

CENTRIFUGAL CHILLER

Centrifugal Chiller(Fix-frequency)

Inverter Centrifugal Chiller

Magnetic Suspension Inverter Centrifugal Chiller



Centrifugal Chiller (Fix-frequency)

₹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-GM12/A2(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)	Inlet(°C)	I/O difference(°C)
12.2	6.7	29.4	34.9	5-15	2.5-11	16-35	3.5-11

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		5.61		5.61		5.77		5.91		5.91		5.91	
IPLV	W/W		6.19		6.31		6.48		6.53		6.63		6.63	
Power supply	-M	Ph/V/Hz	3Ph, 380V, 50Hz		3Ph, 380V, 50Hz		3Ph, 380V, 50Hz		3Ph, 380V, 50Hz		3Ph, 380V, 50Hz		3Ph, 380V, 50Hz	
	-G	Ph/V/Hz	3Ph, 10000V, 50Hz		3Ph, 10000V, 50Hz		3Ph, 10000V, 50Hz		3Ph, 10000V, 50Hz		3Ph, 10000V, 50Hz		3Ph, 10000V, 50Hz	
Power input	kW		254		285		312		344		372		406	
	-M	A	438.6		492.1		538.7		593.9		642.3		701.0	
RLA	-G	A	16.7		18.7		20.5		22.6		24.4		26.6	
	Type	Semi-hermetic Centrifugal Compressor												
Compressor	Starting mode*	Star-delta												
	Quantity	-												
Refrigerant charge volume	kg		330		360		600		625		650		700	
	Type	No.68 synthetic fatty oil												
Refrigeration oil	Charge volume	L	50		50		60		60		60		80	
	Type	Flooded Shell and Tube												
Evaporator	Fouling factor	m ² ·c/kW	0.018		0.018		0.018		0.018		0.018		0.018	
	Water flow volume	L/s	60.3		68.9		77.5		86.1		94.7		103.3	
		GPM	955		1092		1228		1365		1501		1638	
	Pressure drop	kPa	75		75		75		75		75		90	
		ft.WG	25.1		25.1		25.1		25.1		25.1		30.1	
	Connection pipe	-	200		200		250		250		250		250	
Condenser	Type	Shell and Tube												
	Fouling factor	m ² ·c/kW	0.044		0.044		0.044		0.044		0.044		0.044	
	Water flow volume	L/s	75.4		86.2		97.0		107.8		118.6		129.3	
		GPM	1196		1367		1537		1708		1879		2050	
	Pressure drop	kPa	70		70		70		70		70		85	
		ft.WG	23.4		23.4		23.4		23.4		23.4		28.5	
Connection pipe	-	200		200		250		250		250		250		
Sound pressure level (Max.)	dB(A)	s88		s88		s88		s90		s90		s90		
Dimension	Outline(WxDxD)	mm	3630*1680*2080		3630*1680*2080		4150*1900*2250		4150*1900*2250		4150*1900*2250		4350*2070*2500	
	Package(WxDxD)	mm	3700*1750*2130		3700*1750*2130		4200*1970*2410		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		5.98		6.01		5.91		5.95		6.02		5.87	
IPLV	W/W		6.7		6.73		6.64		6.68		6.75		6.59	
Power supply	-M	Ph/V/Hz	3Ph, 380V, 50Hz		3Ph, 380V, 50Hz		3Ph, 380V, 50Hz		3Ph, 380V, 50Hz		3Ph, 380V, 50Hz		3Ph, 380V, 50Hz	
	-G	Ph/V/Hz	3Ph, 10000V, 50Hz		3Ph, 10000V, 50Hz		3Ph, 10000V, 50Hz		3Ph, 10000V, 50Hz		3Ph, 10000V, 50Hz		3Ph, 10000V, 50Hz	
Power input	kW		435		466		508		538		565		613	
	-M	A	751.1		804.6		877.1		928.9		975.5		1058.4	
RLA	-G	A	28.5		30.6		33.3		35.3		37.1		40.2	
	Type	Semi-hermetic Centrifugal Compressor												
Compressor	Starting mode*	Star-delta												
	Quantity	-												
Refrigerant charge volume	kg		725		750		775		800		825		900	
	Type	No.68 synthetic fatty oil												
Refrigeration oil	Charge volume	L	80		80		80		80		80		100	
	Type	Flooded Shell and Tube												
Evaporator	Fouling factor	m ² ·c/kW	0.018		0.018		0.018		0.018		0.018		0.018	
	Water flow volume	L/s	111.9		120.6		129.2		137.8		146.4		155.0	
		GPM	1774		1911		2047		2184		2320		2457	
	Pressure drop	kPa	90		90		90		90		90		115	
		ft.WG	30.1		30.1		30.1		30.1		30.1		38.5	
	Connection pipe	-	250		250		300		300		300		300	
Condenser	Type	Shell and Tube												
	Fouling factor	m ² ·c/kW	0.044		0.044		0.044		0.044		0.044		0.044	
	Water flow volume	L/s	140.1		150.9		161.7		172.4		183.2		194.0	
		GPM	2221		2392		2562		2733		2904		3075	
	Pressure drop	kPa	85		85		85		85		85		100	
		ft.WG	28.5		28.5		28.5		28.5		28.5		33.5	
Connection pipe	-	250		250		300		300		300		350		
Sound pressure level (Max.)	dB(A)	s90		s90		s90		s92		s92		s92		
Dimension	Outline(WxDxD)	mm	4350*2070*2500		4350*2070*2500		4530*2070*2500		4530*2120*2500		4530*2120*2500		4750*2330*2750	
	Package(WxDxD)	mm	4650*2110*2660		4650*2110*2660		4850*2160*2660		4850*2160*2660		4850*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		

Note: * The starting mode of star-delta is applicable for the models with suffix "-M", while the starting mode of direct-start is applicable with the suffix "-G".

Model	LSBLX3800-M LSBLX3800-G		LSBLX4000-M LSBLX4000-G		LSBLX4400-M LSBLX4400-G		- LSBLX4800-G		- LSBLX5200-G	
	Cooling capacity	kW		3800		4000		4400		4800
	RT		1081		1136		1251		1364	
Capacity adjustment range	%		10-100		10-100		10-100		10-100	
EER	WW		5.91		5.98		5.93		5.99	
IPLV	WW		6.63		6.71		6.66		6.73	
Power supply	Ph/V/Hz		3Ph,380V,50Hz		3Ph,380V,50Hz		3Ph,380V,50Hz		3Ph,10000V,50Hz	
Power input	kW		643		669		742		801	
RLA	A		1110.2		1155.1		1281.1		1364	
Compressor	Type		-		-		-		-	
	Starting mode*		-		-		-		-	
	Quantity		1		1		1		1	
Refrigerant charge volume	kg		925		950		1000		1050	
Refrigeration oil	Type		-		-		-		-	
	Charge volume		L		100		100		100	
Evaporator	Type		-		-		-		-	
	Fouling factor		m ² ·c/kW		0.018		0.018		0.018	
	Water flow volume		L/s		163.6		172.2		189.4	
			GPM		2593		2730		3003	
	Pressure drop		kPa		115		115		115	
			ft.WG		38.5		38.5		38.5	
	Connection pipe		-		300		300		350	
Condenser	Type		-		-		-		-	
	Fouling factor		m ² ·c/kW		0.044		0.044		0.044	
	Water flow volume		L/s		204.8		215.6		237.1	
			GPM		3246		3417		3758	
	Pressure drop		kPa		100		100		105	
			ft.WG		33.5		33.5		35.2	
	Connection pipe		-		350		350		350	
Sound pressure level (Max.)	dB(A)		≤92		≤92		≤92		≤95	
Dimension	Outline(WxDxH)		mm		4750×2330×2750		4750×2480×2750		4750×2480×2750	
	Package(WxDxH)		mm		5000×2340×2910		5000×2490×2910		5000×2490×2910	
Net/Gross/Operating weight	kg		14800/15000/17000		15200/15400/17500		15800/16000/18000		16200/16400/18500	
Loading quantity	40'GP/40'HQ		set		0/0		0/0		0/0	

Inverter Centrifugal Chiller

The inverter centrifugal chiller adopts high-efficiency DC inverter centrifugal compressor with internationally leading coefficient of performance. It provides high-efficiency and stable operation, and can be connected to all sorts of fan coil unit to realize cooling for large civil and industrial buildings.



Quiet function



Comprehensive protection



Memory function



Long-distance monitoring

Two-stage

Model	LSBLX5600S-G		LSBLX6000S-G		LSBLX6400S-G		LSBLX6800S-G		LSBLX7200S-G	
	Cooling capacity	kW		5600		6000		6400		6800
	RT		1591		1706		1818		1934	
Capacity adjustment range	%		10-100		10-100		10-100		10-100	
EER	WW		6.06		6.12		6.15		6.16	
IPLV	WW		6.80		6.87		6.91		6.97	
Power supply	Ph/V/Hz		3Ph,10000V,50Hz		3Ph,10000V,50Hz		3Ph,10000V,50Hz		3Ph,10000V,50Hz	
Power input	kW		924		980		1041		1104	
RLA/LRA	A		60.6		64.3		68.3		72.4	
Compressor	Type		-		-		-		-	
	Starting mode		-		-		-		-	
	Quantity		1		1		1		1	
Refrigerant charge volume	kg		1500		1600		1700		1800	
Refrigeration oil	Category		-		-		-		-	
	Charge volume		L		125		125		125	
Evaporator	Type		-		-		-		-	
	Fouling factor		m ² ·c/kW		0.018		0.018		0.018	
	Water flow volume		L/s		241.1		258.3		275.6	
			GPM		3822		4095		4368	
	Pressure drop		kPa		125		125		125	
			ft.WG		41.0		41.0		41.0	
	Connection pipe		-		350		350		400	
Condenser	Type		-		-		-		-	
	Fouling factor		m ² ·c/kW		0.044		0.044		0.044	
	Water flow volume		L/s		301.8		323.3		344.9	
			GPM		4783		5125		5466	
	Pressure drop		kPa		125		125		125	
			ft.WG		41.0		41.0		41.0	
	Connection pipe		-		400		400		450	
Sound pressure level (Max.)	dB(A)		≤95		≤95		≤95		≤95	
Dimension	Outline(WxDxH)		mm		5350×2620×3100		5350×2620×3100		5350×2620×3100	
	Package(WxDxH)		mm		5800×2630×3260		5800×2630×3260		5800×2630×3260	
Net/Gross/Operating weight	kg		22500/22700/25950		23800/24000/27500		25500/25700/29450		26100/26300/30200	
Loading quantity	40'GP/40'HQ		set		0/0		0/0		0/0	

Note: * The starting mode of star-delta is applicable for the models with suffix '-M', while the starting mode of direct-start is applicable with the suffix '-G'.

- It adopts high-efficiency motor driving two-stage impellers with simpler structure and more reliable operation. The size and weight of compressor is only 40% of the conventional compressor with the same cooling capacity.
- It adopts high-efficiency permanent magnet synchronous inverter motor, whose power is over 400kW and rotation speed is over 18000rpm. Meanwhile, the helical refrigerant ejecting cooling technology is adopted to ensure high-efficiency operation of the motor.
- The design of impeller and diffuser is optimized for the load of 25-100%, achieving high-efficiency operation of compressor in various loads.
- It adopts patented sensor control technology to control the position of motor precisely and improve the reliability.
- It adopts the unique low solidity diffuser to achieve high-efficiency recycle of pressure.
- Two-stage compression technology is adopted to improve efficiency by 5~6% compared with one-stage cooling circulation system.
- User-friendly touch screen is adopted for convenient operation, precise control and stable output.

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)	Inlet(°C)	I/O difference(°C)
12.2	6.7	29.4	34.9	5-15	2.5-11	16-35	3.5-11

Model		LSBLX250SVE	LSBLX275SVE	LSBLX300SVE	LSBLX350SVE	LSBLX400SVE	LSBLX450SVE	
Cooling capacity	kW	860	967	1055	1231	1406	1582	
	RT	250	275	300	350	400	450	
Capacity adjustment range	%	10-100	10-100	10-100	10-100	10-100	10-100	
EER	W/W	5.99	6.01	6.03	6.12	6.22	6.25	
IPLV	W/W	9.94	9.96	10.01	10.16	10.34	10.43	
Power supply	PhV/Hz	3/380/50	3/380/50	3/380/50	3/380/50	3/380/50	3/380/50	
Power input	kW	147	161	175	201	226	253	
RLA	A	225.6	247.1	268.6	308.5	346.8	388.3	
Compressor	Type	Semi-hermetic centrifugal compressor						
	Starting mode	Variable Frequency Drives						
	Quantity	1	1	1	1	1	1	
Refrigerant charge volume	kg	350	375	400	425	450	550	
Refrigeration oil	Type	No.68 synthetic fatty oil						
	Charge volume	L	25	25	25	30	30	45
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	37.8	46.2	50.4	58.8	67.2	75.6
		GPM	599.8	659.1	719	839	958.3	1078.2
	Pressure drop	kPa	60	60	60	60	60	60
		ft.WG	20	20	20	20	20	20
Connection pipe	-	DN200	DN200	DN200	DN200	DN200	DN200	
Condenser	Type	Shell and tube						
	Fouling factor	m ² ·C/kW	0.044	0.044	0.044	0.044	0.044	0.044
	Water flow volume	L/s	47.5	57.7	63	73.5	84	94.5
		GPM	763.2	827.7	903	1053.6	1203.4	1354.1
	Pressure drop	kPa	55	55	55	55	55	55
	ft.WG	18.3	18.3	18.3	18.3	18.3	18.3	
Connection pipe	-	DN200	DN200	DN200	DN200	DN200	N200	
Sound pressure level (Max.)	Db(A)	88	88	88	88	88	88	
Dimension	Outline(WxDxH)	mm	3770x1580x1840	3770x1580x1840	3770x1580x1840	3650x1810x2000	3650x1810x2000	3650x1810x2000
	Package(WxDxH)	mm	3900x1700x2000	3900x1700x2000	3900x1700x2000	3700x1900x2200	3700x1900x2200	3700x1900x2200
Net/Gross/Operating weight	Kg	5150/5600/5600	5250/5700/5700	5400/5850/5800	5500/5900/6400	5700/6100/6700	6100/6500/7200	
Loading quantity	40GP40HQ	set	0/0	0/0	0/0	0/0	0/0	

Model		LSBLX800SVE	LSBLX850SVE	LSBLX900SVE	LSBLX950SVE	LSBLX1000SVE	LSBLX1100SVE	
Cooling capacity	kW	2613	2989	3164	3340	3516	3668	
	RT	800	850	900	950	1000	1100	
Capacity adjustment range	%	10-100	10-100	10-100	10-100	10-100	10-100	
EER	W/W	6.63	6.75	6.58	6.65	6.89	6.91	
IPLV	W/W	11.06	11.23	10.95	11.08	11.68	11.68	
Power supply	PhV/Hz	3/380/50	3/380/50	3/380/50	3/380/50	3/380/50	3/380/50	
Power input	kW	424	443	481	502	510	560	
RLA	A	650.7	679.9	738.2	770.4	782.7	859.5	
Compressor	Type	Semi-hermetic centrifugal compressor						
	Starting mode	Variable Frequency Drives						
	Quantity	1	1	1	1	1	1	
Refrigerant charge volume	kg	750	775	900	925	950	975	
Refrigeration oil	Type	No.68 synthetic fatty oil						
	Charge volume	L	50	50	50	50	50	50
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	134.4	142.8	151.2	159.6	168	184.8
		GPM	1917.2	2037.2	2156.5	2276.4	2396.4	2636.3
	Pressure drop	kPa	75	75	100	100	100	115
		ft.WG	25.1	25.1	33.5	33.5	33.5	38.5
Connection pipe	-	DN250	DN250	DN300	DN300	DN300	DN300	
Condenser	Type	Shell and tube						
	Fouling factor	m ² ·C/kW	0.044	0.044	0.044	0.044	0.044	0.044
	Water flow volume	L/s	168	178.5	189	199.5	210	231
		GPM	2407.7	2558.3	2708.1	2858.8	3009.4	3310.7
	Pressure drop	kPa	70	70	85	85	85	105
	ft.WG	23.4	23.4	28.5	28.5	28.5	35.2	
Connection pipe	-	DN250	DN250	DN300	DN300	DN300	DN300	
Sound pressure level (Max.)	Db(A)	90	90	92	92	92	92	
Dimension	Outline(WxDxH)	mm	4250x2020x2300	4250x2020x2300	4580x2210x2430	4580x2210x2430	4580x2210x2430	4580x2210x2430
	Package(WxDxH)	mm	4370x2050x2410	4370x2050x2410	4700x2350x2550	4700x2350x2550	4700x2350x2550	4700x2350x2550
Net/Gross/Operating weight	Kg	9500/10000/11000	9900/10400/11500	10000/10600/12000	10150/10750/122000	10500/111000/12700	11000/116000/13500	
Loading quantity	40GP40HQ	set	0/0	0/0	0/0	0/0	0/0	

Model		LSBLX500SVE	LSBLX550SVE	LSBLX600SVE	LSBLX650SVE	LSBLX700SVE	LSBLX750SVE	
Cooling capacity	kW	1758	1934	2110	2285	2461	2637	
	RT	500	550	600	650	700	750	
Capacity adjustment range	%	10-100	10-100	10-100	10-100	10-100	10-100	
EER	W/W	6.32	6.43	6.53	6.72	6.74	6.58	
IPLV	W/W	10.55	10.69	10.88	11.2	11.22	10.95	
Power supply	PhV/Hz	3/380/50	3/380/50	3/380/50	3/380/50	3/380/50	3/380/50	
Power input	kW	278	301	323	340	365	401	
RLA	A	426.7	462	495.7	521.8	560.2	615.4	
Compressor	Type	Semi-hermetic centrifugal compressor						
	Starting mode	Variable Frequency Drives						
	Quantity	1	1	1	1	1	1	
Refrigerant charge volume	kg	575	600	625	650	675	725	
Refrigeration oil	Type	No.68 synthetic fatty oil						
	Charge volume	L	45	45	45	45	45	50
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	84	92.4	100.8	109.2	117.6	126
		GPM	1198.2	1318.1	1438.1	1557.4	1677.3	1797.3
	Pressure drop	kPa	60	60	75	75	75	75
		ft.WG	20	20	25.1	25.1	25.1	25.1
Connection pipe	-	DN200	DN250	DN250	DN250	DN250	DN250	
Condenser	Type	Shell and tube						
	Fouling factor	m ² ·C/kW	0.044	0.044	0.044	0.044	0.044	0.044
	Water flow volume	L/s	105	115.5	126	136.5	147	157.5
		GPM	1504.7	1655.3	1806	1956.8	2106.4	2257.1
	Pressure drop	kPa	55	55	70	70	70	70
	ft.WG	18.3	18.3	23.4	23.4	23.4	23.4	
Connection pipe	-	DN200	DN250	DN250	DN250	DN250	DN250	
Sound pressure level (Max.)	Db(A)	88	90	90	90	90	90	
Dimension	Outline(WxDxH)	mm	3850x1810x2000	4200x1920x2250	4200x1920x2250	4250x2020x2300	4250x2020x2300	4250x2020x2300
	Package(WxDxH)	mm	3950x1950x2100	4300x2050x2350	4300x2050x2350	4370x2050x2410	4370x2050x2410	4370x2050x2410
Net/Gross/Operating weight	Kg	6600/7000/7800	7200/7700/8600	8300/8800/9900	8400/8900/9900	8500/9000/10200	9100/9600/10500	
Loading quantity	40GP40HQ	set	0/0	0/0	0/0	0/0	0/0	

Magnetic suspension inverter centrifugal chiller(CC series)

Gree CC series magnetic suspension inverter centrifugal chiller adopts the magnetic suspension compressor for aeronautic industry, which achieves oil-free operation of cooling system, avoids complicated lubricant system and greatly improves system's reliability. This series can be widely adopted in hotels, office buildings, etc.



- Quiet function
- Comprehensive protection
- Memory function
- Long-distance monitoring



- It adopts magnetic bearing to achieve oil-free operation and reduce the heat exchange influence of lubricant
- The system adopts flooded heat exchange design and build-in subcooler in condenser
- Impellers directly driven by the motor with gearless design, improving the reliability of the system
- With advanced and reliable microcomputer control system, powerful group control modules and building communication interface
- User-friendly touch screen is adopted for convenient operation, precise control and stable output
- Multiple protection function
- Noise of the entire unit is lower than 70dB(A)

Model		LSBLX130SCE	LSBLX150SCE	LSBLX250SCE	LSBLX275SCE	LSBLX300SCE	
Cooling capacity	kW	457	528	879	967	1055	
	RT	130	150	250	275	300	
Capacity adjustment range	%	10~100					
EER	WW	5.79	5.56	5.98	5.86	5.76	
IPLV	WW	10.3	10.16	10.5	10.42	10.2	
Power supply	Ph/V/Hz	3/380/50					
Power input	kW	79	95	147	165	183	
RLA	A	121.2	145.8	225.8	253.2	280.9	
Compressor	Type	Semi-hermetic centrifugal compressor					
	Starting mode	Variable Frequency Drives					
	Quantity	1	1	2	2	2	
Refrigerant charge volume	kg	235	280	255	280	305	
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	19.7	22.7	37.8	41.6	45.4
		GPM	311.5	359.9	599.1	659.1	719
	Pressure drop	kPa	65	65	75	75	75
		ft.WG	21.7	21.7	25.1	25.1	25.1
Connection pipe	-	DN150	DN150	DN150	DN150	DN150	
Condenser	Type	Shell and tube					
	Fouling factor	m ² ·°C/kW	0.044	0.044	0.044	0.044	0.044
	Water flow volume	L/s	24.7	28.5	47.5	52.2	57
		GPM	391.2	451.9	752.4	827.7	903
	Pressure drop	kPa	60	60	70	70	70
		ft.WG	20	20	20	20	20
Connection pipe	-	DN150	DN150	DN200	DN200	DN200	
Sound pressure level (Max.)	Db(A)	70					
Dimension	Outline(WxDxH)	mm 3000x1250x2000					
	Package(WxDxH)	mm 3100x1350x2100					
Net/Gross/Operating weight	Kg	2200/2500/2600					
Loading quantity	40GP40HQ	set 0/0					

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)	Inlet(°C)	I/O difference(°C)
12.2	6.7	29.4	34.9	5~15	2.5~11	16~35	3.5~11

Control System Lineup

Control system	Product series	Modular chiller		Screw chiller		Centrifugal chiller	Inverter Centrifugal Chiller	Magnetic suspension inverter centrifugal chiller(CC series)
		Split series	Integral series	Air-cooled screw chiller	Water-cooled screw chiller			
Chiller	Wired remote controller	Z16301						
		Z12301A						
	Display panel	Z26301C						
		Z2F3M*1						
		Z2G1DJ01*1						
Touch screen*1	CM27-GM12/A2(M)							
	CM18-GM8/A2(M)							
Long-distance monitoring software	Gree AC Eudemon 2009*3	FE30-00A(M)						
BMS accessories*2 (modbus)	Communication module	ME30-28/E(M)						
Other modules	Optoelectronic isolated converter	RS232-RS422/485						
		RS-422/485						
	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*

Nominal test condition (temperature)									
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	1200/928/618
ESP	Pa	12	12	12	12	12	12	12	12
Capacity	Cooling/Heating	kW	1.85/3.05	2.8/4.4	3.6/5.5	4.5/7.0	5.5/8.9	7.35/11.0	9.2/14.0
	Type	PhV/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Power system	Input	W	37	45	62	70	96	120	145
	Water flow volume	l/s	0.1	0.14	0.17	0.21	0.27	0.6	0.45
Water system	Pressure drop	kPa	12	21	16	23	36	38	40
		ft-WG	4	7	5.3	7.7	12.0	12.7	13.3
Sound pressure level	dB(A)	35	38	40	42	44	48	48	50
Dimension (W×D×H)	Outline	mm	881×510×245	1011×510×245	1131×510×245	1211×510×245	1211×510×245	1176×510×245	1761×510×245
	Package	mm	900×560×275	1030×560×275	1150×560×275	1230×560×275	1230×560×275	1780×560×275	1780×560×275
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-110PA0						
	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*

Nominal test condition (temperature)									
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	1200/928/618
ESP	Pa	30	30	30	30	30	30	30	30
Capacity	Cooling/Heating	kW	1.8/3.05	2.8/4.4	3.6/5.5	4.5/7.0	5.5/8.9	7.35/11.0	9.2/14.0
	Type	PhV/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Power system	Input	W	42	55	68	80	102	140	158
	Water flow volume	l/s	0.1	0.14	0.17	0.21	0.27	0.6	0.45
Water system	Pressure drop	kPa	12	21	16	23	36	38	40
		ft-WG	4	7	5.3	7.7	12.0	12.7	13.3
Sound pressure level	dB(A)	38	40	42	44	46	47	49	52
Dimension (W×D×H)	Outline	mm	881×510×245	1011×510×245	1131×510×245	1211×510×245	1211×510×245	1761×510×245	1761×510×245
	Package	mm	900×560×275	1030×560×275	1150×560×275	1230×560×275	1230×560×275	1780×560×275	1780×560×275
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-110PA0						
	Plenum with filter	—	HF31	HF32	HF33	HF34	HF34	HF36	HF36
	Plenum without filter	—	HF41	HF42	HF43	HF44	HF44	HF46	HF46

*Note: Horizontal fan coil unit with air return can be added for option choice.

3 Rows*

Nominal test condition (temperature)								
Model		FP-34WAS-R	FP-51WAS-R	FP-68WAS-R	FP-85WAS-R	FP-102WAS-R	FP-136WAS-R	
Air flow volume(H/M/L)	CFM	200/146/125	300/232/155	400/291/194	500/375/250	600/464/309	800/644/429	
ESP	Pa	30	30	30	30	30	30	
Capacity	Cooling/Heating	kW	2.19/3.29	3.37/5.06	4.28/6.42	5.04/7.56	6.46/9.70	8.17/10.90
	Type	PhV/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Power system	Input	W	44	59	72	87	108	
	Water flow volume	l/s	0.11	0.17	0.22	0.25	0.32	
Water system	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 (W×D×H)	Outline	mm	881×510×245	1011×510×245	1131×510×245	1211×510×245	1371×510×245	
	Package	mm	900×560×275	1030×560×275	1150×560×275	1230×560×275	1390×560×275	
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-110PA0					
	Plenum with filter	—	HF31	HF32	HF33	HF34	HF35	
	Plenum without filter	—	HF41	HF42	HF43	HF44	HF45	

Nominal test condition (temperature)								
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	1200/928/618	1400/971/729	1600/1235/868	1800/1006/674	2000/1400/812	
ESP	Pa	30	30	30	30	30	30	
Capacity	Cooling/Heating	kW	11.4/18.2	12.2/18.6	12.4/19.5	13.5/21.3	16.0/24.8	17.0/26.1
	Type	PhV/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Power system	Input	W	174	212	380	475	535	
	Water flow volume	l/s	0.55	0.57	0.57	0.64	0.74	
Water system	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 (W×D×H)	Outline	mm	1921×510×245	1921×510×245	1671×595×354	1671×595×354	1921×595×354	
	Package	mm	1940×560×275	1940×560×275	1750×560×380	1750×560×380	1950×560×380	
Net weight/Gross weight	kg	33/38.5	24/39.5	48/55	48/55	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-110PA0					
	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

Nominal test condition (temperature)								
Model		FP-34WAF-R	FP-51WAF-R	FP-68WAF-R	FP-85WAF-R	FP-102WAF-R	FP-136WAF-R	
Air flow volume(H/M/L)	CFM	188/156/80	289/259/186	383/324/207	477/368/242	571/507/395	760/616/424	
ESP	Pa	30	30	30	30	30	30	
Capacity	Cooling/Heating	kW	2.11/3.70	3.82/5.70	4.85/7.20	5.71/8.50	7.32/10.90	
	Type	PhV/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	
Power system	Input	W	44	59	80	87	108	
	Water flow volume	l/s	0.11	0.19	0.24	0.31	0.35	
Water system	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 (W×D×H)	Outline	mm	881×510×245	1011×510×245	1131×510×245	1211×510×245	1371×510×245	
	Package	mm	900×560×275	1030×560×275	1150×560×275	1230×560×275	1390×560×275	
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		
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-110PA0					
	Plenum with filter	—	HF31	HF32	HF33	HF34	HF35	
	Plenum without filter	—	HF41	HF42	HF43	HF44	HF45	

*Note: Horizontal fan coil unit with air return can be added for option choice.

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	1800/1006/674	2000/1400/812
ESP	Pa	30	30	30	30	30	30
Capacity	Cooling/Heating	kW	11.4/18.2	12.2/20.8	14.2/21.4	16.0/24.0	18.7/28.1
	Type	PhV/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Power system	Input	W	174	212	380	475	640
	Water flow volume	l/s	0.51	0.58	0.78	0.89	1.02
Water system	Pressure drop	kPa	23.9	31.5	29.2	21.7	26.2
		Fl-WG	8.0	10.5	9.7	7.2	8.7
Sound pressure level	dB(A)	51	52	56	58	60	61
Dimension (W×D×H)	Outline	mm	1921×510×245	1921×510×245	1671×595×354	1671×595×354	1921×595×354
	Package	mm	1940×560×275	1940×560×275	1750×650×380	1750×650×380	1950×650×380
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
Optionals	Wired remote controller	—	Luxury wired controller: WK-010PA-K; LCD controller: WK-110PA0				
	Plenum with filter	—	HF37	HF37	HF28	HF28	HF29
	Plenum without filter	—	HF47	HF47	HF48	HF48	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
	Type	PhV/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Power system	Input	W	44	59	80	87	108
	Water flow volume	l/s	0.11	0.17	0.21	0.29	0.32
Water system	Pressure drop	kPa	10.6	23.3	18.2	38	56.5
		Fl-WG	3.5	7.8	6.1	12.7	18.8
Sound pressure level	dB(A)	40	42	44	47	49	50
Dimension (W×D×H)	Outline	mm	881×510×245	1011×510×245	1131×510×245	1211×510×245	1371×510×245
	Package	mm	900×560×275	1030×560×275	1150×560×275	1230×560×275	1390×560×275
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
Optionals	Wired remote controller	—	Luxury wired controller: WK-010PA-K; LCD controller: WK-110PA0				
	Plenum with filter	—	HF31	HF32	HF33	HF34	HF35
	Plenum without filter	—	HF41	HF42	HF43	HF44	HF45

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	1043/788/754	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
	Type	PhV/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Power system	Input	W	174	212	380	475	640
	Water flow volume	l/s	0.50	0.52	0.59	0.65	0.80
Water system	Pressure drop	kPa	28	29.4	21.8	26.6	42.1
		Fl-WG	9.3	9.8	7.3	8.9	14.0
Sound pressure level	dB(A)	51	52	56	58	60	61
Dimension (W×D×H)	Outline	mm	1921×510×245	1921×510×245	1671×595×354	1671×595×354	1921×595×354
	Package	mm	1940×560×275	1940×560×275	1750×650×380	1750×650×380	1950×650×380
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
Optionals	Wired remote controller	—	Luxury wired controller: WK-010PA-K; LCD controller: WK-110PA0				
	Plenum with filter	—	HF37	HF37	HF28	HF28	HF29
	Plenum without filter	—	HF47	HF47	HF48	HF48	HF49

High ESP Duct Type 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.



Washable filter



Quiet function



Compact design



Easier maintainability

- High static pressure design up to 50Pa, especially suitable for the application with long air supply distance
- Adopting DC inverter motor for more efficient and energy-saving
- Convenient installation and compact structure

Model		FP-51WASS-K	FP-68WASS-K	FP-102WASS-K
Air flow volume(H/M/L)	CFM	300/232/155	400/291/194	600/464/309
ESP	Pa	50	50	50
Capacity	Cooling/Heating	kW	2.85/5.06	4.28/6.42
	Type	PhV/Hz	1/220-240/50	1/220-240/50
Power system	Input	W	62	78
	Water flow volume	l/s	0.169	0.215
Water system	Pressure drop	kPa	15	25
		Fl-WG	5	8.3
Sound pressure level	Db(A)	44	46	49
Dimension (W×D×H)	Outline	mm	1033x575x278	1153x575x278
	Package	mm	968x510x245	1088x510x245
Net weight/Gross weight	kg	16.5/21	18/22	22/27
Connection pipe diameter	Water inlet & outlet (inner groove)	inch(mm)	3/4" (19.05)	
	Condensed water drain (outer groove)	inch(mm)	3/4" (19.05)	
Loading quantity	40°GP/40°HQ	set		
Optionals	Wired remote controller	-	Luxury wired controller:WK-010PA-K;LCD controller:WK-110PA0	
	Plenum with filter	-	HF32	HF33
	Plenum without filter	-	HF42	HF43

Fan Coil Unit

Cassette Type



- 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

2 Pipe Type

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		kW		kW		kW	
	Type	PhV/Hz		PhV/Hz		PhV/Hz		PhV/Hz	
Power system	Input	W		W		W		W	
	Water flow volume	l/s		l/s		l/s		l/s	
Water system	Pressure drop	kPa		kPa		kPa		kPa	
	F _L WG	F _L WG		F _L WG		F _L WG		F _L WG	
Sound pressure level	Level	dB(A)		dB(A)		dB(A)		dB(A)	
	Connection pipe size	inch(mm)		inch(mm)		inch(mm)		inch(mm)	
Body	Dimension (WxDxH)	Outline	mm		mm		mm		
		Package	mm		mm		mm		
	Net weight/Gross weight	kg	kg		kg		kg		
		mm	mm		mm		mm		
Panel	Dimension (WxDxH)	Outline	mm		mm		mm		
		Package	mm		mm		mm		
	Net weight/Gross weight	kg	kg		kg		kg		
		mm	mm		mm		mm		
Loading quantity	40'GP/40'HQ	set		set		set			
Standard controller	Wireless remote	-		YB1FA(X-FAN)		YB1FA(X-FAN)			
Optional controller	Wired remote	-		Z4E351B		Z4E351B			

4 Pipe Type

Model		FP-88XD/B-K	FP-95XD/B-K	FP-125XD/B-K	FP-180XD/B-K	
Air flow volume (H/M/L)	CFM	400	500	735	1059	
Capacity	Cooling/Heating	kW		kW		
	Type	PhV/Hz		PhV/Hz		
Power system	Input	W		W		
	Water flow volume	l/s		l/s		
Water system	Pressure drop	kPa		kPa		
	F _L WG	F _L WG		F _L WG		
Sound pressure level	Level	dB(A)		dB(A)		
	Connection pipe size	mm		mm		
Body	Dimension (WxDxH)	Outline	mm		mm	
		Package	mm		mm	
	Net weight/Gross weight	kg	kg		kg	
		mm	mm		mm	
Panel	Dimension (WxDxH)	Outline	mm		mm	
		Package	mm		mm	
	Net weight/Gross weight	kg	kg		kg	
		mm	mm		mm	
Loading quantity	40'GP/40'HQ	set		set		
Standard controller	Wireless remote	-		YB1FA(XFAN)		
Optional controller	Wired remote	-		Z4E351B		

Fan Coil Unit

Floor Ceiling Type



- Inner groove copper
- Washable filter
- Anti-cold function
- Quiet function
- Auto clean
- Multi fan speed
- Self-diagnosis
- Compact design

- 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.



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

Model		FP-342D-K	FP-512D-K	FP-682D-K	FP-852D-K	FP-1022D-K	FP-1362D-K	FP-1702D-K	FP-2042D-K
Air flow volume (H/M/L)	m ³ /h	400/292/250	510/395/284	680/450/430	720/615/410	1020/765/510	1100/880/550	1800/1276/850	2040/1575/1051
	CFM	235/172/147	300/232/155	400/265/194	424/362/241	599/450/300	647/518/324	1059/751/500	1201/827/619
Capacity	Cooling	kW		kW		kW		kW	
	Heating	kW		kW		kW		kW	
Power system	Type	PhV/Hz		PhV/Hz		PhV/Hz		PhV/Hz	
	Input	W		W		W		W	
Water system	Water flow volume	l/s		l/s		l/s		l/s	
	Pressure drop	kPa		kPa		kPa		kPa	
Sound pressure level	Level	dB(A)		dB(A)		dB(A)		dB(A)	
	Connection pipe diameter	inch(mm)		inch(mm)		inch(mm)		inch(mm)	
Dimension (WxDxH)	Outline	mm		mm		mm		mm	
		mm		mm		mm		mm	
	Package	mm		mm		mm		mm	
		mm		mm		mm		mm	
Net weight/Gross weight	kg	kg		kg		kg		kg	
	mm	mm		mm		mm		mm	
Loading quantity	40'GP/40'HQ	set		set		set		set	
Standard controller	Wireless remote controller	-		YB1FA		YB1FA		YB1FA	
Optional controller	Wired remote controller	-		Z4E351B		Z4E351B		Z4E351B	

Fan Coil Unit

Wall Mounted Type



- Inner groove copper
- Washable filter
- Anti-cold function
- Quiet function
- Auto clean
- Multi fan speed
- Compact design

- 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.



With air release valve

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

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	500	
	Medium	CFM	189	243	348	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	
		Fl 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 (W×D×H)	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)	
Optional	Wired remote controller	—	Z4E351B	Z4E351B	Z4E351B	Z4E351B	

Air Handling Unit

Horizontal Mounted Packaged

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

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.

Item	Nominal test condition (temperature)				
	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(Y)/B-M	G-1.5WDX(Y)/B-M	G-2WD(Y)/B-M	G-2WDX(Y)/B-M	G-2.5WD(Y)/B-M	G-2.5WDX(Y)/B-M
Air flow volume		m³/h CFM	1500 881	1500 881	2000 1174	2000 1174	2500 1468
Capacity (4/6rows)	Cooling	kW	8.40/12.03	20.85/23.49	11.03/13.50	25.71/31.32	14.10/18.42
	Heating	kW	13.70/17.28	22.58/26.19	17.96/19.58	28.26/33.21	22.27/27.02
Water flow volume(4/6rows)		l/s GPM	0.41/0.57 1.80/2.51	1/1.25 4.4/5.5	0.53/0.65 2.33/2.86	1.23/1.59 5.41/6.996	0.67/0.88 2.95/3.87
Pressure drop(4/6rows)		kPa Ft-WG	5/7 1.67/2.34	10.74/21.05 3.59/7.02	7/10 2.34	15.6/32.19 5.21/10.73	8/11 2.67
Esp.range(optional)		Pa Ft-WG	40-300 0.013-0.098	40-300 0.013-0.1	40-300 0.013-0.098	40-300 0.013-0.1	50-350 0.016-0.115
4 Rows	ESP range 1	ESP	Pa	40-300	40-300	40-300	50-200
		Motor Input	Kw	0.55	0.55	0.55	0.55
	ESP range 2	ESP	Pa	-	-	-	200-350
		Motor Input	Kw	-	-	-	0.75
	ESP range 3	ESP	Pa	-	-	-	-
		Motor Input	Kw	-	-	-	-
6 Rows	ESP range 1	ESP	Pa	40-300	40-300	40-240	40-300
		Motor Input	Kw	0.55	0.55	0.55	0.55
	ESP range 2	ESP	Pa	-	-	240-300	-
		Motor Input	Kw	-	-	0.75	-
	ESP range 3	ESP	Pa	-	-	-	290-350
		Motor Input	Kw	-	-	-	1.1
Net weight(4/6rows)		kg	103/140	105/140	138/150	125/160	146/160
Gross weight(4/6rows)		kg	130/170	130/165	173/185	160/200	186/200
Sound pressure level		dB(A)	53	53	55	55	55
Connection pipe size	Water inlet & outlet	-	DN40	DN40	DN40	DN40	DN40
	Condensed water drain	-	DN25	DN25	DN25	DN25	DN25
Dimension (W×D×H)	Outline	mm	1100×1020×440	1100X1020X440	1100×1020×460	1100X1020X460	1400×1120×460
	Package	mm	1280×1130×595	1280X1130X595	1280×1230×815	1280X1230X815	1580×1230×815
Loading quantity	40'GP	set	54	54	54	54	44
	40'HQ	set	54	54	54	54	44

Model		G-3WD(Y)/B-M	G-3WDX(Y)/B-M	G-4WD(Y)/B-M	G-4WDX(Y)/B-M
Air flow volume		m³/h CFM	5000 2935	5000 2935	6000 3522
Capacity (4/6rows)	Cooling	kW	28.69/36.19	60.67/78.31	33.47/43.52
	Heating	kW	43.40/53.90	67.72/80.11	52.70/63.40
Water flow volume(4/6rows)		l/s GPM	1.37/1.73 6.03/7.61	2.91/3.83 12.804/16.852	1.88/2.08 7.39/9.15
Pressure drop(4/6rows)		kPa Ft-WG	16/19 5.34/6.35	10.1/20.7 3.37/6.9	16/21 5.28/6.95
Esp.range(optional)		Pa Ft-WG	65-350 0.021-0.115	65-350 0.022-0.117	75-400 0.025-0.131
4 Rows	ESP range 1	ESP	Pa	65-220	65-160
		Motor Input	Kw	1.1	1.1
	ESP range 2	ESP	Pa	220-310	160-280
		Motor Input	Kw	1.5	1.5
	ESP range 3	ESP	Pa	310-400	280-350
		Motor Input	Kw	2.2	2.2
6 Rows	ESP range 1	ESP	Pa	65-190	65-160
		Motor Input	Kw	1.1	1.1
	ESP range 2	ESP	Pa	190-280	160-280
		Motor Input	Kw	1.5	1.5
	ESP range 3	ESP	Pa	280-400	280-350
		Motor Input	Kw	2.2	2.2
Net weight(4/6rows)		kg	235/250	235/250	235/250
Gross weight(4/6rows)		kg	290/305	290/300	290/305
Sound pressure level		dB(A)	60	60	60
Connection pipe size	Water inlet & outlet	-	DN50	DN50	DN50
	Condensed water drain	-	DN25	DN25	DN25
Dimension (W×D×H)	Outline	mm	2100×1320×560	2180X1320X560	2100×1320×560
	Package	mm	2280×1430×715	2280X1430X715	2280×1430×715
Loading quantity	40'GP	set	18	18	18
	40'HQ	set	18	18	18

Model		G-3WD(Y)/B-M	G-3WDX(Y)/B-M	G-4WD(Y)/B-M	G-4WDX(Y)/B-M
Air flow volume		m³/h CFM	3000 1761	4000 1761	4000 2348
Capacity (4/6rows)	Cooling	kW	17.11/21.53	40.6/46.99	22.50/28.78
	Heating	kW	27.89/30.13	43.44/49.83	34.55/42.79
Water flow volume(4/6rows)		l/s GPM	0.86/1.03 3.78/4.53	1.94/2.38 8.536/10.472	1.08/1.38 4.75/6.07
Pressure drop(4/6rows)		kPa Ft-WG	11/15 3.67	39.15/27.45 13.08/9.15	13/16 4.34
Esp.range(optional)		Pa Ft-WG	50-350 0.018-0.115	50-350 0.017-0.117	65-350 0.021-0.115
4 Rows	ESP range 1	ESP	Pa	50-130	50-140
		Motor Input	Kw	0.55	0.55
	ESP range 2	ESP	Pa	130-210	140-230
		Motor Input	Kw	0.75	0.75
	ESP range 3	ESP	Pa	210-350	230-350
		Motor Input	Kw	1.1	1.1
6 Rows	ESP range 1	ESP	Pa	50-180	50-140
		Motor Input	Kw	0.75	0.55
	ESP range 2	ESP	Pa	180-280	140-230
		Motor Input	Kw	1.1	0.75
	ESP range 3	ESP	Pa	280-350	230-350
		Motor Input	Kw	1.5	1.1
Net weight(4/6rows)		kg	167/180	160/180	
Gross weight(4/6rows)		kg	207/220	195/210	
Sound pressure level		dB(A)	58	58	
Connection pipe size	Water inlet & outlet	-	DN40	DN40	
	Condensed water drain	-	DN25	DN25	
Dimension (W×D×H)	Outline	mm	1600×1120×460	1680X1120X460	
	Package	mm	1780×1230×615	1780X1230X615	
Loading quantity	40'GP	set	44	44	
	40'HQ	set	44	44	

Model		G-7WD(Y)/B-M	G-7WDX(Y)/B-M	G-8WD(Y)/B-M	G-8WDX(Y)/B-M
Air flow volume		m³/h CFM	7000 4109	7000 4109	8000 4696
Capacity (4/6rows)	Cooling	kW	39.04/53.22	91.62/109.63	44.62/59.70
	Heating	kW	62.80/77.17	99.12/117.14	66.80/87.56
Water flow volume(4/6rows)		l/s GPM	2.01/2.54 8.84/11.18	4.38/5.6 19.272/24.84	2.33/2.85 10.25/12.54
Pressure drop(4/6rows)		kPa Ft-WG	17/21 5.68/7.01	16.4/32.4 5.48/10.8	18/22 6.01/7.35
Esp.range(optional)		Pa Ft-WG	75-400 0.025-0.131	75-400 0.025-0.133	90-450 0.030-0.148
4 Rows	ESP range 1	ESP	Pa	75-230	75-200
		Motor Input	Kw	1.5	1.5
	ESP range 2	ESP	Pa	230-380	200-400
		Motor Input	Kw	2.2	2.2
	ESP range 3	ESP	Pa	380-450	-
		Motor Input	Kw	3.0	-
6 Rows	ESP range 1	ESP	Pa	75-200	75-200
		Motor Input	Kw	1.5	1.5
	ESP range 2	ESP	Pa	200-350	200-400
		Motor Input	Kw	2.2	2.2
	ESP range 3	ESP	Pa	350-450	-
		Motor Input	Kw	3.0	-
Net weight(4/6rows)		kg	280/300	280/300	
Gross weight(4/6rows)		kg	340/360	340/360	
Sound pressure level		dB(A)	61	61	
Connection pipe size	Water inlet & outlet	-	DN50	DN50	
	Condensed water drain	-	DN25	DN25	
Dimension (W×D×H)	Outline	mm	2300×1320×560	2380X1320X560	
	Package	mm	2480×1430×715	2480X1430X715	
Loading quantity	40'GP	set	18	18	
	40'HQ	set	18	18	

Note:
 1. Testing conditions is as follows:
 COOLING: Air 35°CDB/26°CWB; Entering water temp. 7°C; Leaving water temp. 12°C; HEATING: Air 7°CDB; Entering water temp. 60°C;
 2. Sound power level according to ISO5151-sound pressure calculated at 1m distance.
 3. Operation weight= Net Weight x 1.2
 4. Data of motor power, sound pressure level etc. listed above may change according to the different standard ESP type selected, please see the standard data on nameplate on the unit or consult our sales person.

Note:
 1. Testing conditions is as follows:
 COOLING: Air 35°CDB/26°CWB; Entering water temp. 7°C; Leaving water temp. 12°C; HEATING: Air 7°CDB; Entering water temp. 60°C;
 2. Sound power level according to ISO5151-sound pressure calculated at 1m distance.
 3. Operation weight= Net Weight x 1.2
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E Series

Model		G-1.5WD(Y)E-M	G-1.5WDX(Y)E-M	G-2WD(Y)E-M	G-2WDX(Y)E-M	G-2.5WD(Y)E-M	G-2.5WDX(Y)E-M
Air flow volume		m³/h	1500	1500	2000	2000	2500
		CFM	881	881	1175	1175	1489
Capacity (4/6rows)	Cooling	kW	9.8/11.96	20.6/25.8	12.5/14.28	27.5/33.5	15.6/19.2
	Heating	kW	15.8/17.12	22.8/24.8	22.4/22.62	28.6/32.1	27.3/25.8
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
		GPM	1.89/2.51	4.36/5.50	2.33/2.86	5.63/7.04	2.93/3.87
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
		ft-WG	2.17/1.75	10.12/10.15	3.07/2.62	13.53/7.45	5.44/5.14
Esp.range(optional)		Pa	40-285/50-280	40-285/50-280	40-285/55-295	40-285/55-295	90-255/95-270
		ft-WG	0.013-0.093/0.016-0.092		0.013-0.093/0.018-0.097		0.030-0.084/0.031-0.089
4 Rows	ESP range 1	ESP	Pa	40-285	40-285	40-285	90-222
		Motor Input	Kw	0.55	0.55	0.55	0.55
	ESP range 2	ESP	Pa	-	-	-	233-255
		Motor Input	Kw	-	-	-	0.75
	ESP range 3	ESP	Pa	-	-	-	-
		Motor Input	Kw	-	-	-	-
6 Rows	ESP range 1	ESP	Pa	50-280	50-280	55-295	95-233
		Motor Input	Kw	0.55	0.55	0.55	0.55
	ESP range 2	ESP	Pa	-	-	-	234-270
		Motor Input	Kw	-	-	-	0.75
	ESP range 3	ESP	Pa	-	-	-	-
		Motor Input	Kw	-	-	-	-
Net weight(4/6rows)		kg	98/104	98/104	98/104	107/115	
Gross weight(4/6rows)		kg	127/133	127/133	127/133	137/145	
Sound pressure level		dB(A)	≤53	≤53	≤53	≤56	
Connection pipe size	Water inlet & outlet	-	DN25	DN25	DN25	DN25	
	Condensed water drain	-	DN25	DN25	DN25	DN25	
Dimension (WxDxH)	Outline	mm	1070×1050×478	1070×1050×478	1070×1050×478	1070×1050×704	
	Package	mm	1370×1130×535	1370×1130×535	1370×1130×535	2770×1130×789	
Loading quantity	40'GP	set	32	32	32	28	
	40'HQ	set	32	32	32	28	

Model		G-6WD(Y)E-M	G-6WDX(Y)E-M	G-7WD(Y)E-M	G-7WDX(Y)E-M	G-8WD(Y)E-M	G-8WDX(Y)E-M
Air flow volume		m³/h	6000	6000	7000	7000	8000
		CFM	3525	3525	4112	4112	4699
Capacity (4/6rows)	Cooling	kW	37.4/44.1	79.6/96.8	43.6/50.8	92.9/112.3	49.8/62.5
	Heating	kW	66.8/63.5	80.7/96.5	78.8/72.5	89.5/113.6	90.8/88.7
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
		GPM	7.04/9.24	16.72/20.68	8.05/10.69	19.49/23.76	9.24/12.54
Pressure drop(4/6rows)		kPa	38.9/34.10	45.8/29.4	48.7/17.30	50.5/31.5	53.5/20.80
		ft-WG	12.99/11.39	15.30/9.82	15.60/5.78	16.87/10.52	17.87/6.95
Esp.range(optional)		Pa	75-400/135-400	75-400/135-400	75-360/120-400	75-360/120-400	90-370/140-370
		ft-WG	0.025-0.131/0.044-0.131		0.025-0.118/0.039-0.131		0.030-0.121/0.048-0.121
4 Rows	ESP range 1	ESP	Pa	72-146	75-146	75-257	75-257
		Motor Input	Kw	0.75	0.75	1.1	1.1
	ESP range 2	ESP	Pa	147-347	147-347	258-360	258-360
		Motor Input	Kw	1.1	1.1	1.5	1.5
	ESP range 3	ESP	Pa	348-400	348-400	-	308-370
		Motor Input	Kw	1.5	1.5	-	2.2
6 Rows	ESP range 1	ESP	Pa	135-280	135-280	120-254	120-254
		Motor Input	Kw	1.1	1.1	1.1	1.1
	ESP range 2	ESP	Pa	281-400	281-400	285-400	255-400
		Motor Input	Kw	1.5	1.5	1.5	1.5
	ESP range 3	ESP	Pa	-	-	-	301-370
		Motor Input	Kw	-	-	-	2.2
Net weight(4/6rows)		kg	163/179	163/179	179/197	179/197	
Gross weight(4/6rows)		kg	190/206	190/206	210/228	210/228	
Sound pressure level		dB(A)	≤60	≤60	≤61	≤63	
Connection pipe size	Water inlet & outlet	-	DN40	DN40	DN40	DN40	
	Condensed water drain	-	DN25	DN25	DN25	DN25	
Dimension (WxDxH)	Outline	mm	1500×1050×734	1500×1050×734	1670×1050×734	1670×1050×734	
	Package	mm	1700×1130×812	1700×1130×812	1870×1130×812	1870×1130×812	
Loading quantity	40'GP	set	24	24	24	20	
	40'HQ	set	24	24	24	20	

Model		G-3WD(Y)E-M	G-3WDX(Y)E-M	G-4WD(Y)E-M	G-4WDX(Y)E-M	G-5WD(Y)E-M	G-5WDX(Y)E-M
Air flow volume		m³/h	3000	3000	4000	4000	5000
		CFM	1762	1762	2350	2350	2937
Capacity (4/6rows)	Cooling	kW	18.7/22.13	40.7/50.2	24.9/30.18	55.3/66.5	31/35.4
	Heating	kW	33.5/33	42.5/49.8	43.2/44.2	55.9/64.3	56.1/53.1
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
		GPM	3.48/4.53	8.36/10.56	4.84/6.34	11.57/14.08	5.72/7.52
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
		ft-WG	8.75/6.65	15.58/14.20	6.71/8.22	10.29/16.97	11.79/11.36
Esp.range(optional)		Pa	75-400/90-345	75-400/90-345	60-400/120-400	60-400/120-400	95-400/135-390
		ft-WG	0.025-0.131/0.030-0.113		0.020-0.131/0.039-0.131		0.031-0.131/0.044-0.128
4 Rows	ESP range 1	ESP	Pa	75-249	75-246	60-281	60-280
		Motor Input	Kw	0.55	0.55	0.75	0.75
	ESP range 2	ESP	Pa	250-343	250-343	282-400	282-400
		Motor Input	Kw	0.75	0.75	1.1	1.1
	ESP range 3	ESP	Pa	344-400	344-400	-	-
		Motor Input	Kw	1.1	1.1	-	-
6 Rows	ESP range 1	ESP	Pa	90-176	90-176	120-246	120-246
		Motor Input	Kw	0.55	0.55	0.75	0.75
	ESP range 2	ESP	Pa	177-271	177-271	247-400	247-400
		Motor Input	Kw	0.75	0.75	1.1	1.1
	ESP range 3	ESP	Pa	272-345	272-345	-	-
		Motor Input	Kw	1.1	1.1	-	-
Net weight(4/6rows)		kg	110/119	110/119	134/144	134/144	
Gross weight(4/6rows)		kg	139/148	139/148	165/175	165/175	
Sound pressure level		dB(A)	≤58	≤58	≤59	≤59	
Connection pipe size	Water inlet & outlet	-	DN25	DN25	DN32	DN32	
	Condensed water drain	-	DN25	DN25	DN25	DN25	
Dimension (WxDxH)	Outline	mm	1070×1050×651	1070×1050×651	1270×1050×651	1270×1050×651	
	Package	mm	1270×1130×690	1270×1130×690	1470×1130×710	1470×1130×710	
Loading quantity	40'GP	set	36	36	32	28	
	40'HQ	set	36	36	32	28	

Model		G-9WD(Y)E-M	G-9WDX(Y)E-M	G-10WD(Y)E-M	G-10WDX(Y)E-M	G-12WD(Y)E-M	G-12WDX(Y)E-M
Air flow volume		m³/h	9000	9000	10000	10000	12000
		CFM	5287	5287	5874	5874	7049
Capacity (4/6rows)	Cooling	kW	56/67.8	119.5/148.9	62.4/80.8	134.9/165.2	74.8/95.9
	Heating	kW	96.3/99.8	121.4/142.6	115.8/110.5	138.6/164.5	135.6/137.6
Water flow volume(4/6rows)		l/s	2.4/3.10	5.7/7.3	2.6/3.88	6.4/8.4	3.2/4.65
		GPM	10.56/13.64	25.08/32.12	11.44/17.07	28.16/36.96	14.08/20.46
Pressure drop(4/6rows)		kPa	34/14.30	45.2/42.5	48.9/16.50	47.4/46.8	37.3/25.60
		ft-WG	11.36/4.78	15.10/14.20	16.33/5.51	15.83/15.63	12.46/8.55
Esp.range(optional)		Pa	95-450	95-450	130-450	130-450	125-500
		ft-WG	0.031-0.148	0.031-0.148	0.043-0.148	0.043-0.148	0.041-0.164
4 Rows	ESP range 1	ESP	Pa	95-265	95-265	130-343	130-343
		Motor Input	Kw	1.5	1.5	2.2	2.2
	ESP range 2	ESP	Pa	266-450	266-450	344-450	344-450
		Motor Input	Kw	2.2	2.2	3.0	3.0
	ESP range 3	ESP	Pa	-	-	-	378-500
		Motor Input	Kw	-	-	-	4.0
6 Rows	ESP range 1	ESP	Pa	95-167	95-167	130-222	130-222
		Motor Input	Kw	1.5	1.5	2.2	2.2
	ESP range 2	ESP	Pa	168-407	168-407	223-450	223-450
		Motor Input	Kw	2.2	2.2	3.0	3.0
	ESP range 3	ESP	Pa	408-450	408-450	-	348-500
		Motor Input	Kw	3.0	3.0	-	4.0
Net weight(4/6rows)		kg	259/271	259/271	271/284	271/284	
Gross weight(4/6rows)		kg	315/327	315/327	321/334	321/334	
Sound pressure level		dB(A)	≤64	≤64	≤65	≤65	
Connection pipe size	Water inlet & outlet	-	DN50	DN50	DN50	DN50	
	Condensed water drain	-	DN25	DN25	DN25	DN25	
Dimension (WxDxH)	Outline	mm	2050×1050×690	2050×1050×690	2220×1050×704	2220×1050×704	
	Package	mm	2250×1130×789	2250×1130×789	2420×1130×789	2420×1130×789	
Loading quantity	40'GP	set	20	20	16	16	
	40'HQ	set	20	20	16	16	

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.

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Air Handling Unit

Vertical Mounted Packaged

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



Washable filter



Quiet function



Multi fan speed



Compact design



Easier maintainability

- Anti-corrosion and cold bridges prevention thanks to sandwich structure case.
- Anti-corrosion thanks to painted double-faced electro-galvanized or hot-electro-galvanized metal case.
- Painted electro-galvanized metal sheet as outer-layer.
- Hot galvanized metal sheet as inner-layer.
- High-density heat-insulated urethane foam filled between outer and inner layers.
- Easy maintenance thanks to detachable panel and adjustable motor base.

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

Model		G-30(Y)-M	G-3X(Y)-M	G-40(Y)-M	G-40(Y)-M	G-50(Y)-M	G-5X(Y)-M	G-60(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	kW 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	kW 28.2/35.3	47.3/57.2	40.2/48.5	83.2/78.2	50.2/58.4	78.5/97.5	58.2/68.9		
Water flow volume(4/6rows)	l/s	0.87/1.27	2.1/2.88	1.13/1.88	2.8/3.49	1.54/2.1	3.49/4.35	1.74/2.51		
	GPM	3.83/5.59	8.24/11.35	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		
4 Rows	ESP range 1	ESP	Pa	50-170	40-170	65-200	65-200	65-220	65-220	75-130
		Motor Input	Kw	0.55	0.55	1.1	1.1	1.1	1.1	1.5
	ESP range 2	ESP	Pa	170-250	170-250	200-350	200-350	220-350	220-350	130-350
		Motor Input	Kw	0.75	0.75	1.5	1.5	1.5	1.5	2.2
	ESP range 3	ESP	Pa	250-300	250-300	-	-	-	-	-
		Motor Input	Kw	1.1	1.1	-	-	-	-	-
6 Rows	ESP range 1	ESP	Pa	50-170	50-170	65-200	65-200	65-220	65-220	75-130
		Motor Input	Kw	0.55	0.55	1.1	1.1	1.1	1.1	1.5
	ESP range 2	ESP	Pa	170-250	170-250	220-350	200-350	220-350	220-350	130-350
		Motor Input	Kw	0.75	0.75	1.5	1.5	1.5	1.5	2.2
	ESP range 3	ESP	Pa	250-300	250-300	-	-	-	-	-
		Motor Input	Kw	1.1	1.1	-	-	-	-	-
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	DN50/DN65		
	Condensed water drain	-	DN25	DN25	DN25	DN25	DN25	DN25		
Dimension (W×D×H)	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-80(Y)-M	G-80(Y)-M	G-8X(Y)-M	G-100(Y)-M	G-10X(Y)-M	G-120(Y)-M	G-12X(Y)-M	
Air flow volume	m³/h	6000	8000	8000	10000	10000	12000	12000	
	CFM	3525	4899	4699	5874	5874	7049	7049	
Capacity (4/6rows)	Cooling	kW 88.2/106.5	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	kW 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	14.1/25.6	30.9/20.8	18.4/29.6	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	
4 Rows	ESP range 1	ESP	Pa	75-100	90-340	90-450	90-180	90-180	100-200
		Motor Input	Kw	1.5	2.2	2.2	2.2	2.2	3.0
	ESP range 2	ESP	Pa	130-350	340-450	340-450	180-350	180-350	200-370
		Motor Input	Kw	2.2	3.0	3.0	3.0	3.0	4.0
	ESP range 3	ESP	Pa	-	-	-	350-500	350-500	370-450
		Motor Input	Kw	-	-	-	4.0	4.0	5.5
6 Rows	ESP range 1	ESP	Pa	75-130	90-340	90-340	90-180	90-180	100-200
		Motor Input	Kw	1.5	2.2	2.2	2.2	2.2	3.0
	ESP range 2	ESP	Pa	130-350	340-350	340-450	180-350	180-350	200-370
		Motor Input	Kw	2.2	3.0	3.0	3.0	3.0	4.0
	ESP range 3	ESP	Pa	-	-	-	350-500	350-500	370-450
		Motor Input	Kw	-	-	-	4.0	4.0	5.5
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	DN65/DN65	DN65/DN65	DN65/DN65	DN65/DN65	
	Condensed water drain	-	DN25	DN32	DN32	DN32	DN32	DN32	
Dimension (W×D×H)	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(Y)-M	G-14X(Y)-M	G-16(Y)-M	G-16X(Y)-M	G-18(Y)-M	G-18X(Y)-M	G-20(Y)-M	
Air flow volume		m ³ /h	14000	14000	16000	16000	18000	18000	20000	
		CFM	8224	8224	9399	9399	10574	10574	11748	
Capacity (4/6rows)	Cooling	kW	87.6 /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	kW	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	41.82 /53.20	19.14 /25.87	44.57 /56.70	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	7.38/9.36	7.38/11.29	7.68/10.72	8.88/13.43	8.35/11.76	8.35/12.78	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	
4 Rows	ESP range 1	ESP	Pa	100-210	100-210	120-250	120-250	120-340	120-340	140-220
		Motor Input	Kw	3.0	3.0	4.0	4.0	5.5	5.5	5.5
	ESP range 2	ESP	Pa	210-330	210-330	250-600	250-600	340-600	340-600	220-450
		Motor Input	Kw	4.0	4.0	5.5	5.5	7.5	7.5	7.5
	ESP range 3	ESP	Pa	330-550	330-550	-	-	-	-	450-600
		Motor Input	Kw	5.5	5.5	-	-	-	-	11
6 Rows	ESP range 1	ESP	Pa	100-210	100-210	120-250	120-250	120-340	120-340	140-220
		Motor Input	Kw	3.0	3.0	4.0	4.0	5.5	5.5	5.5
	ESP range 2	ESP	Pa	210-330	210-330	250-600	250-600	340-600	340-600	220-450
		Motor Input	Kw	4.0	4.0	5.5	5.5	7.5	7.5	7.5
	ESP range 3	ESP	Pa	330-550	330-550	-	-	-	-	450-600
		Motor Input	Kw	5.5	5.5	-	-	-	-	11
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	690/930	
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	DN65/DN65	DN80/DN80	
	Condensed water drain	—	DN32	DN32	DN32	DN32	DN32	DN32	DN32	
Dimension (W×D×H)	Outline	mm	2250×930×2100	2250×930×2100	2250×930×2100	2250×930×2100	2250×930×2100	2250×930×2100	1980×1440×1930	
	Package	mm	2450×1050×2250	2450×1050×2250	2380×1050×2450	2380×1050×2450	2380×1050×2450	2380×1050×2450	2040×1500×2060	
Loading quantity	40'GP	set	8	8	8	8	8	8	7	
	40'HQ	set	8	8	8	8	8	8	7	

Model			G-20X(Y)-M	G-22(Y)-M	G-22X(Y)-M	G-25(Y)-M	G-25X(Y)-M	G-30(Y)-M	G-30X(Y)-M	
Air flow volume		m ³ /h	20000	22000	22000	25000	25000	30000	30000	
		CFM	11748	12923	12923	14688	14688	17623	17623	
Capacity (4/6rows)	Cooling	kW	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	kW	308.6 /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	15.46 /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	29/38	29/38	23/38	23/38	
		Ft-WG	8.35/12.19	6.68/10.72	6.68/10.72	9.69/12.02	9.69/12.02	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	
4 Rows	ESP range 1	ESP	Pa	140-220	170-300	170-300	170-380	170-380	220-580	220-580
		Motor Input	Kw	5.5	5.5	5.5	7.5	7.5	11	11
	ESP range 2	ESP	Pa	220-450	300-460	300-460	380-550	380-550	580-650	580-650
		Motor Input	Kw	7.5	7.5	7.5	11	11	15	15
	ESP range 3	ESP	Pa	450-600	460-570	460-570	-	-	-	-
		Motor Input	Kw	11	11	11	-	-	-	-
6 Rows	ESP range 1	ESP	Pa	140-220	170-300	170-300	170-380	170-380	220-580	220-580
		Motor Input	Kw	5.5	5.5	5.5	7.5	7.5	11	11
	ESP range 2	ESP	Pa	220-450	300-460	300-460	380-550	380-550	580-650	580-650
		Motor Input	Kw	7.5	7.5	7.5	11	11	15	15
	ESP range 3	ESP	Pa	450-600	460-570	460-570	-	-	-	-
		Motor Input	Kw	11	11	11	-	-	-	-
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	DN80/DN80	
	Condensed water drain	—	DN32	DN32	DN32	DN32	DN32	DN32	DN32	
Dimension (W×D×H)	Outline	mm	1950×1440×1930	2250×1640×2030	2250×1640×200	2250×1640×20	2250×1640×20	2250×1640×23	2250×1640×23	
	Package	mm	2040×1500×2060	2340×1700×2160	2340×1700×2160	2340×1700×21	2340×1700×21	2450×1750×25	2450×1750×25	
Loading quantity	40'GP	set	7	5	5	5	5	4	4	
	40'HQ	set	7	5	5	5	5	4	4	

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

Air Handling Unit

Hydronic Air Handling Unit

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



Washable filter



Quiet function



Compact design



Easier maintainability

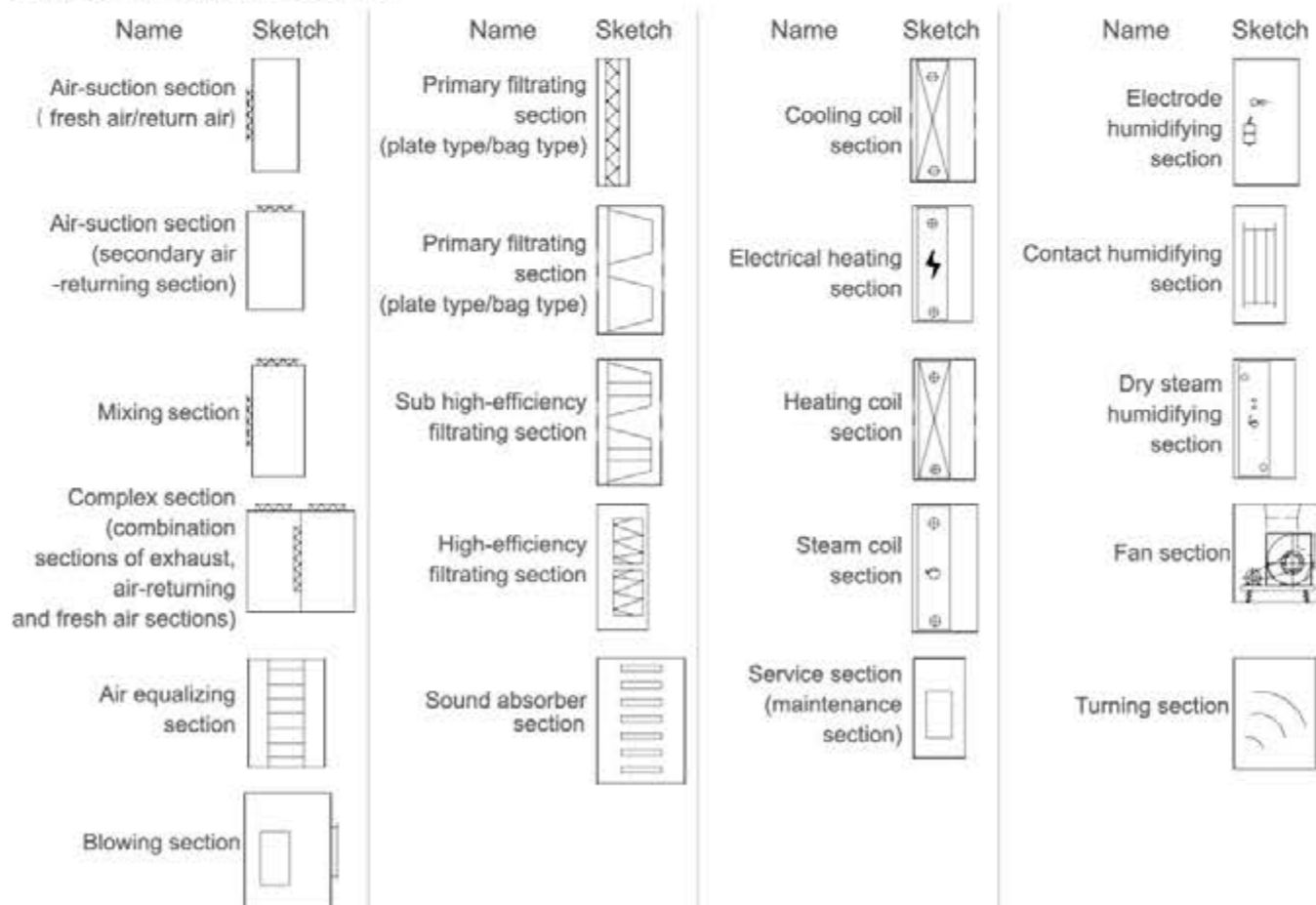
- **Cold bridge preventing design:** The AHU adopts anodized aluminum alloy with high anti-corrosion performance, hard PVC as cold bridge, soft PVC as seal packing ring and beading, of which insulation performance is higher. Double skin panel with polyurethane foam insulation, which is lighter and lower 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.



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

Spec.	Section dimension		Unit	Airflow volume against air velocity					Cooling capacity under air return condition kW	Cooling capacity under fresh air condition kW	Air supply total pressure Pa
	W(mm)	H(mm)		2(m/s)	2.25(m/s)	2.5(m/s)	2.75(m/s)	3(m/s)			
0804	850	450	m ³ /h	1128	1269	1410	1552	1693	6-14	17-28	400-1200
			CFM	663	746	829	911	994			
0806	850	650	m ³ /h	1975	2221	2468	2715	2962	10-24	29-50	400-1200
			CFM	1160	1305	1450	1595	1740			
0808	850	850	m ³ /h	2821	3174	3526	3879	4231	15-35	41-71	400-1200
			CFM	1657	1864	2071	2276	2486			
1008	1050	850	m ³ /h	3735	4202	4669	5136	5603	20-44	53-95	400-1200
			CFM	2194	2468	2743	3017	3291			
1208	1250	850	m ³ /h	4650	5231	5812	6393	6975	25-56	66-116	400-1200
			CFM	2731	3073	3414	3756	4097			
1608	1650	850	m ³ /h	6479	7286	8098	8908	9718	36-81	94-162	400-1200
			CFM	3806	4281	4757	5233	5708			
1010	1050	1050	m ³ /h	4856	5463	6070	6677	7284	25-57	68-124	400-1500
			CFM	2852	3209	3566	3922	4279			
1210	1250	1050	m ³ /h	6045	6800	7556	8311	9067	32-72	86-151	400-1500
			CFM	3551	3995	4439	4882	5326			
1610	1650	1050	m ³ /h	8351	9395	10438	11482	12526	46-104	122-209	400-1500
			CFM	4905	5519	6132	6745	7358			
2010	2050	1050	m ³ /h	10728	12069	13410	14751	16092	62-127	147-254	400-1500
			CFM	6302	7090	7877	8665	9453			
1212	1250	1250	m ³ /h	7811	8788	9764	10740	11717	41-83	111-195	400-1500
			CFM	4588	5162	5736	6309	6883			
1612	1650	1250	m ³ /h	10920	12285	13650	15015	16380	60-136	159-274	400-1500
			CFM	6415	7217	8018	8820	9622			
2012	2050	1250	m ³ /h	13905	15643	17381	19119	20857	80-164	191-329	400-1500
			CFM	8168	9189	10210	11231	12252			
1616	1650	1650	m ³ /h	14606	16432	18258	20083	21909	81-182	213-366	400-1500
			CFM	8580	9652	10725	11797	12870			
1816	1850	1650	m ³ /h	16709	18798	20887	22975	25064	99-210	222-422	400-1500
			CFM	9815	11042	12269	13496	14723			
2016	2050	1650	m ³ /h	18812	21164	23516	25867	28219	114-222	258-445	400-1500
			CFM	11051	12432	13813	15195	16576			
2020	2050	2050	m ³ /h	23107	25995	28884	31772	34660	139-273	317-547	400-2000
			CFM	13573	15270	16967	18664	20360			

Optional Function 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.



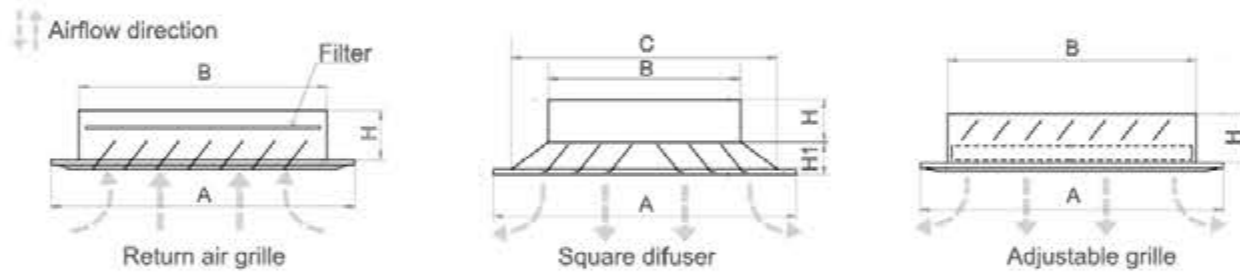
Model		FM-1.25-9-K	FM-1.25-12-K
Power supply	V/Hz	220-230/50	220-230/50
Power input	W	110	140
Air flow volume	m ³ /h	1200	1650
Sound pressure level (H/L)	dB (A)	59/56	61/56
Dimension (W×D×H)	Outline	mm 900×215×193	1200×215×193
	Package	mm 1015×270×256	1315×270×256
Net weight /gross weight	kg	16/18	20/22
Loading quantity	40'GP	set 848	660
	40'HQ	set 954	746
Setting height	m	2.3-3	2.3-3
Standard	Wired remote controller	ZY611	ZY611

Diffuser

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



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



Installation Dimension

Adjustable grille				
Model	Throat B	A	H	
FKSB6312	630×120	670×160	46	
FKSB10012	1000×120	1040×160	43	

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

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

Control System Lineup

Control system		Product series	Concealed Ceiling Type/ High ESP Duct Type	Cassette type	Floor ceiling type	Wall mounted type	Air curtain
Wireless remote controller	YB1FA			●	●	●	
	ZYB111 ^{*1}						●
Wired controller	Z4E351B			○	○	○	
Mechanical FCU controller	Z54352A1		○				
Digital thermostat	Luxury WK-010PA-K		○				
	WK-110PA0		○				
Long-distance monitoring software	Gree AC Eudemon 2009 ^{*2}	FE30-00/A(M)		○	○	○	
BMS accessories	Communication module (modbus)	ME30-17/E2(M)		○	○	○	
		DQ34 ^{*3}		○			
		ZJ0212			○		
Other modules	Optoelectronic isolated converter	RS232-RS422/485		○	○	○	
	Optoelectronic isolated signal multiplier	RS-422/485		○	○	○	

Note:
 ● means standard, ○ means optional.
^{*1} The pictures of unit and wireless remote controller please refer to the actual product.
^{*2} 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.
^{*3} DQ34 including wired remote controller Z4E351B and Communication module ZJ0212, so if DQ34 is selected, the wired remote controller Z54352A1 is not necessary to selected. ME30-17/E2(M) is not necessary also.

SPECIALIZED AC

Marine Air Conditioner
Elevator Air Conditioner
Close Control Air Conditioner



Marine Air Conditioner

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



Display Panel
Z5A35



- 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	CYR8/NaB-T	CYR12/NaB-T	CYR18/NaB-T
Capacity	Cooling	W	1400	2350	3300	3700
		BTU/h	4800	8000	11600	12600
	Heating	W	1700	2500	3500	3900
		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
	Heating	kW	0.50	0.79	1.04	1.20
Input current	Cooling	A	2.9	4.2	5.1	5.7
	Heating	A	2.8	4.2	5.3	5.7
Sound pressure level		dB(A)	58	58	58	58
Refrigerant charge volume		kg	0.35	0.44	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	309*440*324	411*457*324	409*458*370	478*488*365
	Package	mm	588*539*403	636*594*403	636*549*437	706*635*432
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	324

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)



- 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	GDT38
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
Input current	Cooling	A	4.6	5.7
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	350*600*400	450*700*450
	Package	mm	483*783*495	572*890*542
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

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	
Power supply		PhV/Hz	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		8.8/5.8	
	24°C/17°C	kW	5.3/4.8		7.2/6.5		7.2/6.5	
	24°C/45%	kW	5.2/4.7		7.0/6.4		7.0/6.3	
Rated input	26°C/50%	kW	5.5/5.0		7.3/6.5		7.3/6.6	
	Cooling/Heating	kW	2.05/3.2		2.8/3.6		2.5/3.4	
Rated current	Cooling/Heating	A	9.55/14.55		12.73/16.36		3.76/5.15	
Heating capacity		kW	3		3		3	
Humidifying	Rated capacity	kg/h	2		2		2	
	Power input	kW	1.5		1.5		1.5	
Range of temp. controlling and precision		°C	17~28°C±1°C		17~28°C±1°C		17~28°C±1°C	
Range of humidity and precision		%	40~60%±5%		40~60%±5%		40~60%±5%	
ESP		Pa	0	15	0	15	0	
Indoor units	Model	Normal	JKFD5DC/Na-E(I)	JKFD5DQS/Na-E(I)	JKFD7DC/Na-E(I)	JKFD7DQS/Na-E(I)	JKFD7C/Na-E(I)	
	Air flow volume	m ³ /h	1850	1900	2000	2200	2000	
	Sound pressure level	dB(A)	61	62	61	62	61	
	Dimension (W×D×H)	Outline	mm	800×880×2250	800×890×1950	800×890×2250	800×890×1950	800×890×2250
		Package	mm	900×790×2370	900×790×2100	900×790×2370	900×790×2100	900×790×2370
Net weight/gross weight	kg	235/245	215/225	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)	
	Quantity	Set	1		1		1	
	Air flow volume	m ³ /h	6200		6200		6200	
	Sound pressure level	dB(A)	64		64		64	
	Dimension (W×D×H)	Outline	mm	890×980×1000		890×980×1000		890×980×1000
Package		mm	1060×930×560		1060×930×560		1060×930×560	
Net weight/gross weight	kg	60/80		60/80		60/80		
Connecting pipe	Liquid/Gas	mm	φ9.52/12		φ9.52/12		φ9.52/12	
	Method of connection		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	

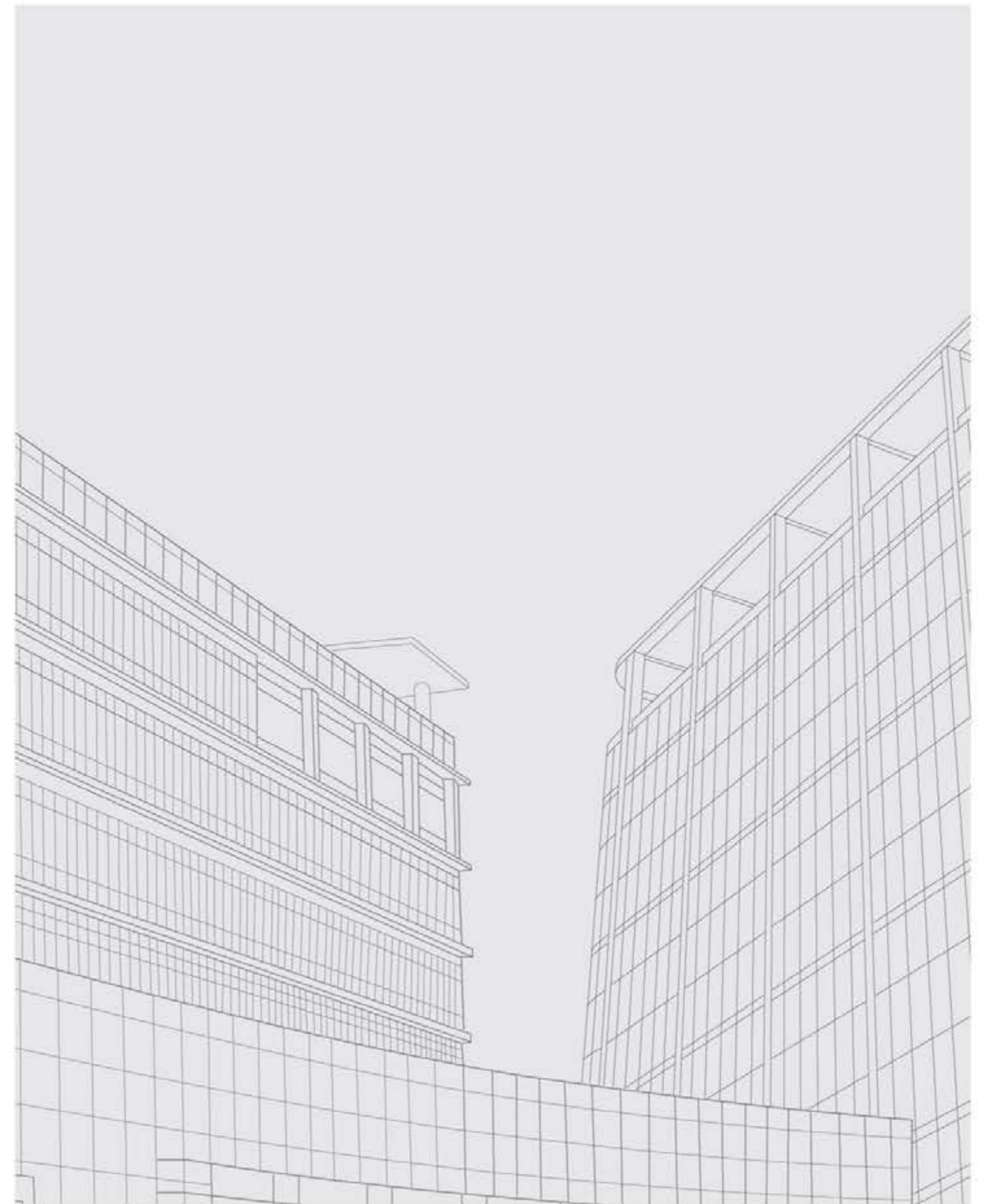
- Notes:
1. The cooling capacity was tested when the outdoor temperature was as follows: Dry-bulb temperature was 35°C; Wet-bulb temperature was 24°C.
 2. The noise value was tested in the semi-anechoic chamber but the actual value will be a little higher for the change of ambient temperature.
 3. The 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	
Power supply		PhV/Hz	3/380/50		3/380/50		3/380/50	
Cooling capacity (total/sensible)	22°C/ 50%	kW	13.8/12.5		18.0/17.0		18.0/17.0	
	24°C/17°C	kW	14.0/12.6		19.0/17.4		19.0/17.4	
	24°C/45%	kW	13.9/12.8		18.8/17.8		18.8/17.8	
Rated input	26°C/50%	kW	15.6/14.0		20.3/18.9		20.3/18.9	
	Cooling/Heating	kW	6.0/7.1		7.9/10.5		7.9/10.5	
Rated current	Cooling/Heating	A	9.10/10.77		11.97/15.91		11.97/15.91	
Heating capacity		kW	6		9		9	
Humidifying	Rated capacity	kg/h	4		4		4	
	Power input	kW	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	
Range of humidity and precision		%	40~60%±5%		40~60%±5%		40~60%±5%	
ESP		Pa	0	50	50	0	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)	
	Air flow volume	m ³ /h	4900	4800	4500	7200	6600	
	Sound pressure level	dB(A)	62	64	64	65	67	
	Dimension (W×D×H)	Outline	mm	1100×810×2250	1100×810×1950	1100×810×1950	1380×810×2250	1380×810×1950
		Package	mm	1200×910×2370	1200×910×2100	1200×910×2070	1480×910×2370	1480×910×2070
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)	
	Quantity	Set	1		1		1	
	Air flow volume	m ³ /h	9800		9800		11900	
	Sound pressure level	dB(A)	64		64		64	
	Dimension (W×D×H)	Outline	mm	1080×1180×960		1080×1180×960		1080×1180×1040
Package		mm	1265×1135×540		1265×1135×540		1265×1135×615	
Net weight/gross weight	kg	100/115		100/115		100/115		
Connecting pipe	Liquid/Gas	mm	φ12/16		φ12/16		φ16/19	
	Method of connection		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	

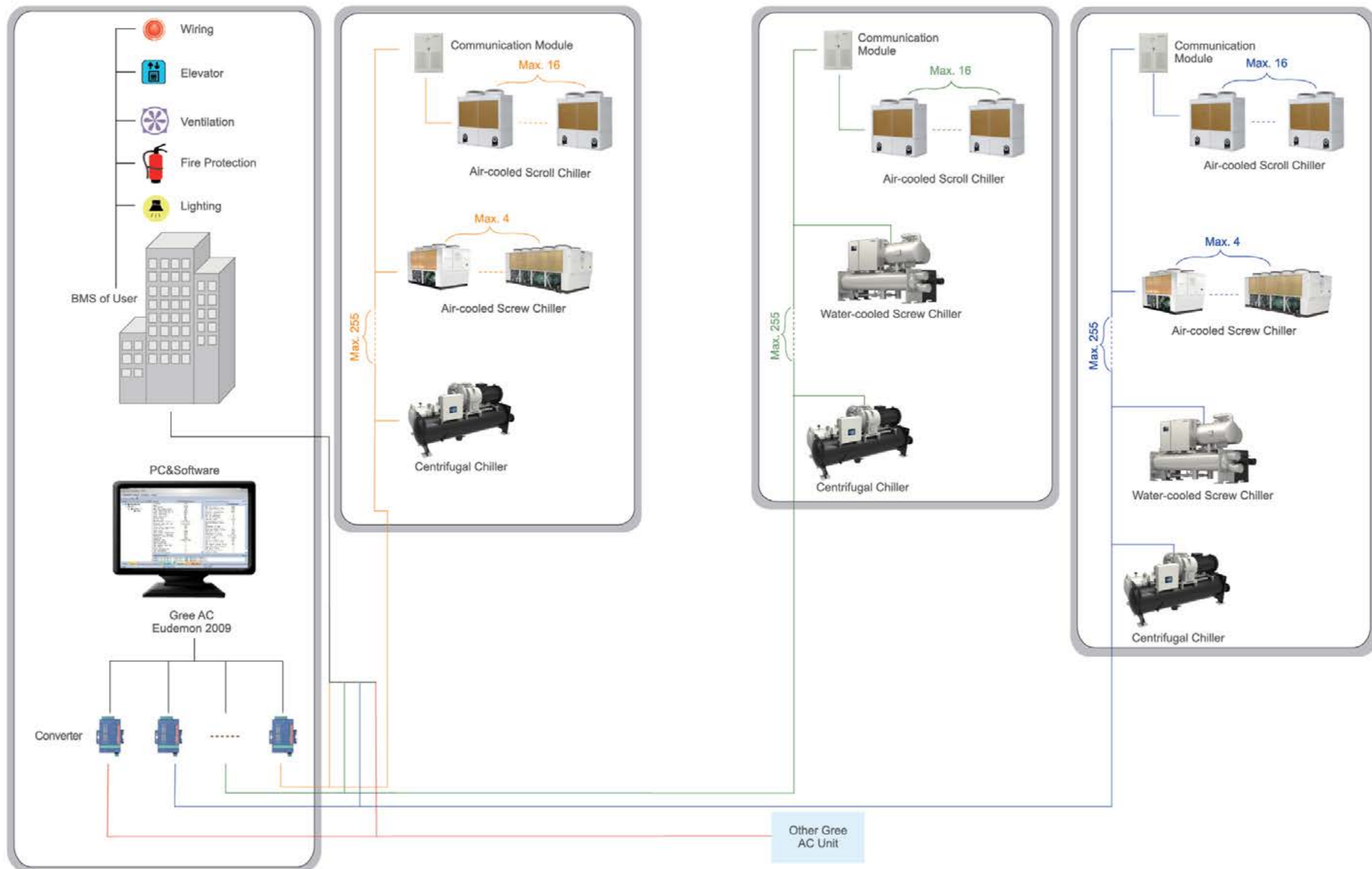
Model	Normal	JKFD25C2/Na-M	JKFD25QS2/Na-M	JKFD25SX2/Na-M	JKFD40C2/Na-M	JKFD40QS2/Na-M	JKFD40SX2/Na-M	
Power supply		PhV/Hz	3/380/50		3/380/50		3/380/50	
Cooling capacity (total/sensible)	22°C/ 50%	kW	25.4/22.8		39.4/36.1		39.4/36.1	
	24°C/17°C	kW	27.0/24.3		40.0/36.1		40.0/36.1	
	24°C/45%	kW	26.4/24.4		39.2/37.5		39.2/37.5	
Rated input	26°C/50%	kW	27.6/24.5		42.5/38.0		42.5/38.0	
	Cooling/Heating	kW	11.2/13.8		16.5/21.0		16.5/21.0	
Rated current	Cooling/Heating	A	16.97/20.91		24.24/31.82		24.24/31.82	
Heating capacity		kW	12		18		18	
Humidifying	Rated capacity	kg/h	8		8		8	
	Power input	kW	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	
Range of humidity and precision		%	40~60%±5%		40~60%±5%		40~60%±5%	
ESP		Pa	0	100	100	0	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)	
	Air flow volume	m ³ /h	7800	7500	7500	13000	12500	
	Sound pressure level	dB(A)	66	66	68	68	70	
	Dimension (W×D×H)	Outline	mm	1900×810×2250	1900×810×1950	1900×810×1950	2480×810×2250	2480×810×1950
		Package	mm	2000×910×2370	2000×910×2100	2000×910×2100	2580×910×2400	2580×910×2100
Net weight/gross weight	kg	585/600	570/585	535/550	725/755	660/690	660/690	
Outdoor units	Model	Normal	JKFD13/Na-M(O)	JKFD13/Na-M(O)	JKFD13/Na-M(O)	JKFD19/Na-M(O)	JKFD19/Na-M(O)	
	Quantity	Set	2		2		2	
	Air flow volume	m ³ /h	9800		9800		11900	
	Sound pressure level	dB(A)	64		64		64	
	Dimension (W×D×H)	Outline	mm	1080×1180×960		1080×1180×960		1080×1180×1040
Package		mm	1265×1135×540		1265×1135×540		1265×1135×615	
Net weight/gross weight	kg	100/115		100/115		100/115		
Connecting pipe	Liquid/Gas	mm	φ12/16		φ12/16		φ16/19	
	Method of connection		Flared-fitting Joint		Flared-fitting Joint		Flared-fitting Joint	
Loading quantity	40'GP/40'HQ	set	0/7	7/7	7/7	0/6	6/6	

- 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		JKFD40C/Na-M	JKFD40QS/Na-M
Power supply		Ph/V/Hz		3/380/50
	22°C/ 50%	kW		39.3/36.0
Cooling capacity	24°C/17°C	kW		40.0/36.1
(total/sensible)	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		17~26°C±1°C
Range of humidity and precision		%		40~60%±5%
ESP		Pa	0	100
	Model	Normal	JKFD40C/Na-M(I)	JKFD40QS/Na-M(I)
Indoor units	Air flow volume	m ³ /h	13000	12500
	Sound pressure level	dB(A)	65	70
	Dimension Outline	mm	2480×810×2250	2480×810×1950
	(W×D×H) 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	m ³ /h	23800	
	Sound pressure level	dB(A)	64	
	Dimension Outline	mm	2500×1150×1250	
	(W×D×H) Package	mm	2600×1280×1410	
	Net weight/gross weight	kg	240/280	
Connecting pipe	Liquid/Gas	mm	φ19/22	
	Method of connection		Soldering Joint	
Loading quantity	40'GP/40'HQ		0/4	4/4



LONG-DISTANCE CONTROL SYSTEM



REFERENCE PROJECTS



CECMED National Drug Laboratory
Water-cooled Screw Chiller Hydronic Air Handling Unit Fan Coil Unit
Cuba



Bahcelievler Government Hospital
GMV
Turkey



B.N. Eltsin's Community Center
GMV
Russia



Trading Building
Air Cooled Screw Chiller
Oman



Conad Supermarket
GMV
Italy



Al-Bustan Hotel
GMV
Yemen



Bella Roma Hotel
GMV
Iraq



XCMG Brasil
GMV
Brazil

Reference Projects Lineup

Country	Project Name	Installed Series
Panama	Panama De Universidad Technology	GMV
Cuba	CECMED National Drug Laboratory	Water-cooled Screw Chiller; Hydronic Air Handling Unit; Fan Coil Unit
India	The Research & Development Headquarters of Biocon	Air-cooled Screw Chiller; Water-cooled Screw Chiller
Laos	State Power Corporation of Laos	GMV
Bahrain	IBN School	Rooftop Package Unit
Kuwait	Substation for Ministry of Electricity and Water	Rooftop Package Unit
Libya	Rail Station	Air-cooled Screw Chiller
Turkey	Adana Sabanci Mosque	GMV
Turkey	Bahcelievler Government Hospital	GMV
Turkey	Nursery House	GMV
Russia	Arbitration Tribunal	GMV
Russia	Design and Construction Department	GMV
Russia	Court of Law	GMV
Russia	Design and Research Institute	GMV
Russia	Office of Russian Federal Tax Service	GMV
Russia	B.N. Eltsin's Community Center of Uralskiy region	GMV
Russia	Transport and Logistics Centre	Duct Split Unit
Laos	Lao Telecom	Air-cooled Screw Chiller; Closed Control Air Conditioner
Laos	Agriculture Promotion Bank	GMV
Bahrain	Millennium Tower	Fan Coil Unit
Oman	Trading Building	Air-cooled Screw Chiller
Turkey	Tepe Home Project	GMV
Turkey	Adiyaman Patisserie	GMV
Turkey	Suluntepe Sport Complex	GMV
Russia	Green Park Commercial Center	GMV
Iraq	NawRoz City	Super Free Match
Iraq	Lebanese Village	DC Inverter GMV; U-Match; Super Free Match; Air-cooled Screw Chiller
Iraq	New Eskan Project	Super Free Match
Libya	Land Registration Department	GMV
Turkey	Istanbul Kabatas Residence	GMV
Russia	Greenwood	GMV
Italy	Conad Supermarket	GMV
Russia	Furniture Trading centre	GMV
Russia	Tools Shop	U-Match
Ghana	Atlantic Hotel	GMV
Bahrain	Swiss Bell Hotel	GMV
Qatar	Hilton Garden Inn	Fan Coil Unit
Yemen	Al-Bustan	GMV
Turkey	Antakya Neccar Hotel	GMV
Russia	Lighthouse Hotel	GMV
Brazil	XCMG Brasil	GMV
Qatar	DVAC Factory	Rooftop Package Unit; Duct Split Unit
Turkey	OASIS Factory	GMV
Russia	TTS Tooltechnic Systems AG & Co	GMV
Russia	Aircraft Plant	U-Match
Russia	All-Russian Sectoral Textile Complex	Duct Split Unit
India	Biocon R&D Building	Water-cooled Screw Chiller
Jordan	Medical Clinics Building	U-Match
Greece	Armonia Rehabilitation Medical Center	GMV
Croatia	Ex. Dairy Put Murvice	Free Match
Iraq	Phoenix Hotel	Rooftop Package Unit
Macao, China	Nitobo Glass Weaving	Water-cooled Screw Chiller
Australia	SKF	Heat Recovery GMV

Note

Note

Award and Certification

