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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.

All features and specifications are subject to change without prior notice.

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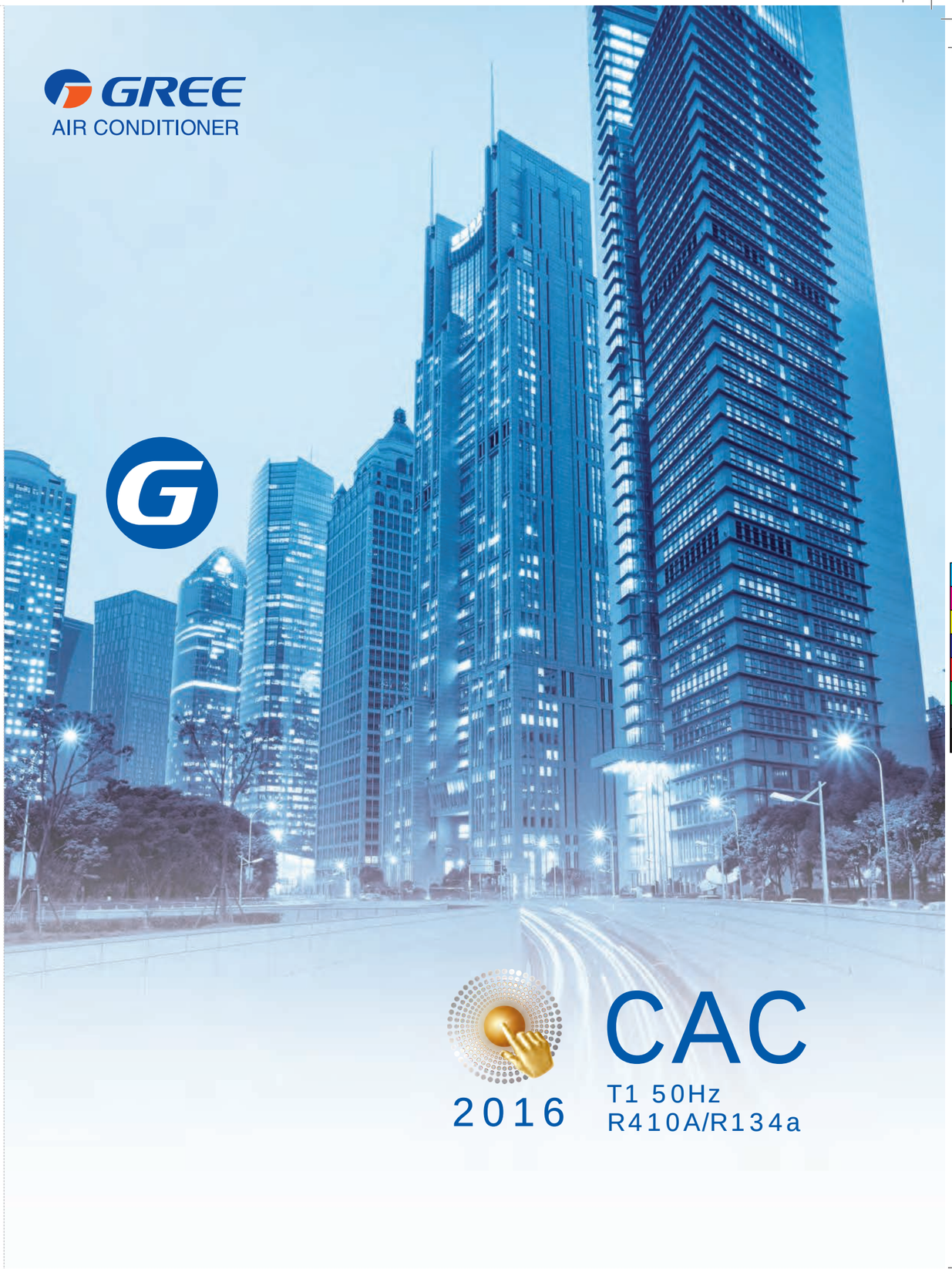
Distributor information

GREE

2016 CAC T1 50Hz R410A/R134a



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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 reali zation. 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.

The World`s Biggest Public Companies

The List — Spreedsheet Reprints Logo Use

Filter list by: All industries All countries All states Search by company name

Bank	Company	Country	Sales	Profits	Assets	Market Value
#385	Gree Electric Appliances	China	$21.2 B	$2.1 B	$26 B	$21.6 B
#436	Midea Group Co.Ltd.	China	$22.9 B	$1.7 B	$19.4 B	$23.3 B
#625	Whirlpool	United States	$19.9 B	$65.0M	$20 B	$15.7 B
#781	Qingdao Haier	China	$14.4 B	$81.0M	$12.1 B	$13.7 B

ทขัฮาตฤ مكيفر گازى مكيف الهواء air conditioner
랭온풍기 エアコン एर कन्डिशनर
空调 climatiseur
acondicionador de aire
ar condicionado

300,000,000users

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air conditioner manufacturer

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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 horiizontally 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℃ 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-minite.)

Weekly timer
Unit can be set to start heating or cooling anytime on a daily or weekly basis.

℃/℉ switch
Under status of unit off, press MODE and “-” buttons simultaneity to switch ℃/℉.

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

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LIGHT COMMERCIAL AC

U-Match
Duct Split Unit

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R410A INVERTER

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℃ and heating under -10℃ outdoor environment temperature.

CE

Indoor Unit

Duct type

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

Cassette type

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

Floor ceiling type

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

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

Indoor Units Lineup

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

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

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Model	Outdoor unit			GUHD09NK3FO		GUHD12NK3FO		
	Indoor unit			Duct	Floor Ceiling	Duct	Cassette	Floor Ceiling
				GFH09K3FI	GTH09K3FI	GFH12K3FI	GKH12K3FI	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			Ph/V/Hz	1/220-240/50		1/220-240/50		
Power input	Cooling		kW	0.84	0.84	1.17	1.09	1.09
	Heating		kW	0.80	0.80	1.05	1.05	1.05
Current input	Cooling		A	3.9	3.9	5.4	5.0	5.0
	Heating		A	3.7	3.7	4.9	4.9	4.9
Refrigerant charge volume			kg	1.2	1.2	1.2	1.2	1.2
Indoor unit	Air flow volume(H/M/L)		CFM	383	353	441	412	412
			m^3/h	650	600	750	700	700
	ESP	Rated	Pa	25	–	25	–	–
		Range	Pa	0-30	–	0-30	–	–
	Sound pressure level (SH/H/M/L)		dB(A)	36/34/28/26	31/29/26/24	37/36/34/28	46/45/41/36	35/33/30/27
	Dimension (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)	Outline	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			GUHD18NK3FO			GUHD24NK3FO		
	Indoor unit			Duct	Cassette	Floor Ceiling	Duct	Cassette	Floor Ceiling
				GFH18K3FI	GKH18K3FI	GTH18K3FI	GFH24K3FI	GKH24K3FI	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	5.5	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			Ph/V/Hz	1/220-240/50			1/220-240/50		
Power input	Cooling		kW	1.55	1.60	1.55	2.18	2.18	2.18
	Heating		kW	1.55	1.58	1.55	2.21	2.21	2.21
Current input	Cooling		A	7.5	7.2	7.2	10.1	10.1	10.1
	Heating		A	7.4	7.6	7.2	10.2	10.2	10.2
Refrigerant charge volume			kg	1.4	1.4	1.4	2.2	2.2	2.2
Indoor unit	Air flow volume(H/M/L)		CFM	589	447	589	824	765	706
			m^3/h	1000	760	1000	1400	1300	1200
	ESP	Rated	Pa	25	–	–	25	–	–
		Range	Pa	0-30	–	–	0-75	–	–
	Sound pressure level (SH/H/M/L)		dB(A)	40/39/36/28	47/46/44/37	44/42/38/32	47/46/44/40	47/46/42/38	49/48/46/40
	Dimension (W×D×H)	Outline	mm	1037×721×266	596×596×240	1220×700×225	1279×558×268	840×840×240	1220×700×225
		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)	Outline	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	95/105	89/97	76/89	64/71	70/86

Model	Outdoor unit			GUHD30NK3FO			GUHD36NK3FO		
	Indoor unit			Duct	Cassette	Floor Ceiling	Duct	Cassette	Floor Ceiling
				GFH30K3FI	GKH30K3FI	GTH30K3FI	GFH36K3FI	GKH36K3FI	GTH36K3FI
Capacity	Cooling		kW	8.3	8.3	8.5	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			Ph/V/Hz	1/220-240/50			1/220-240/50		
Power input	Cooling		kW	2.67	2.67	2.67	3.20	3.20	3.20
	Heating		kW	2.57	2.57	2.57	3.40	3.50	3.40
Current input	Cooling		A	12.4	12.4	12.4	15.0	15.0	15.0
	Heating		A	12.0	12.0	12.0	15.5	16.2	15.8
Refrigerant charge volume			kg	2.4	2.4	2.4	3.5	3.5	3.5
Indoor unit	Air flow volume(H/M/L)		CFM	824	883	883	1236	1095	1118
			m^3/h	1400	1500	1500	2100	1860	1900
	ESP	Rated	Pa	37	–	–	37	–	–
		Range	Pa	0-75	–	–	0-100	–	–
	Sound pressure level (SH/H/M/L)		dB(A)	47/46/44/40	49/48/45/40	49/46/44/38	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	1420×700×245
		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)	Outline	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	45/56

Model	Outdoor unit			GUHD36NM3FO			GUHD42NK3FO		
	Indoor unit			Duct	Cassette	Floor Ceiling	Duct	Cassette	Floor Ceiling
				GFH36K3FI	GKH36K3FI	GTH36K3FI	GFH42K3FI	GKH42K3FI	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			Ph/V/Hz	3/380-415/50			1/220-240/50		
Power input	Cooling		kW	3.12	3.12	3.12	4.0	3.90	3.90
	Heating		kW	3.32	3.32	3.32	3.90	3.80	3.70
Current input	Cooling		A	5.4	5.4	5.4	18.6	17.6	18.1
	Heating		A	5.8	5.8	5.8	18.1	3.7	17.2
Refrigerant charge volume			kg	3.5	3.5	3.5	3.7	1095	3.7
Indoor unit	Air flow volume(H/M/L)		CFM	1236	1095	1118	1236	1860	1118
			m^3/h	2100	1860	1900	2100	–	1900
	ESP	Rated	Pa	37	–	–	37	–	–
		Range	Pa	0-100	–	–	0-100	51/49/46/43	–
	Sound pressure level (SH/H/M/L)		dB(A)	53/52/48/44	51/49/46/43	54/53/51/46	53/52/48/44	840×840×320	55/54/52/47
	Dimension (W×D×H)	Outline	mm	1226×775×290	840×840×320	1420×700×245	1226×775×290	963×963×409	1420×700×245
		Package	mm	1338×877×305	963×963×409	1548×828×345	1338×877×305	31/38	1548×828×345
	Net weight/Gross weight		kg	46/53	31/38	48/56	46/53	950×950×60	50/58
Panel	Dimension (W×D×H)	Outline	mm	–	950×950×60	–	–	1028×1043×130	–
		Package	mm	–	1028×1043×130	–	–	7.0/11	–
	Net weight/Gross weight		kg	–	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	43/47

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Model	Outdoor unit			GUHD42NM3FO			GUHD48NK3FO		
	Indoor unit			Duct	Cassette	Floor Ceiling	Duct	Cassette	Floor Ceiling
				GFH42K3FI	GKH42K3FI	GTH42K3FI	GFH48K3FI	GKH48K3FI	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	54592	54592
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			Ph/V/Hz	3/380-415/50			1/220-240/50		
Power input	Cooling		kW	4.0	3.9	3.9	4.7	4.6	4.8
	Heating		kW	3.9	3.8	3.74	4.4	4.5	4.3
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(H/M/L)		CFM	1236	1095	1118	1412	1354	1354
			m^3/h	2100	1860	1900	2400	2300	2300
	ESP	Rated	Pa	37	–	–	50	–	–
		Range	Pa	0-100	–	–	0-125	–	–
	Sound pressure level (SH/H/M/L)		dB(A)	53/52/48/44	51/49/46/43	55/54/52/47	55/53/49/45	53/52/47/41	56/55/50/40
	Dimension (W×D×H)	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	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	–	7.0/11	–	–	8.0/12	–
Outdoor unit	Sound pressure level		dB(A)	61			59		
	Dimension (W×D×H)	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	Outer diameter	Liquid	inch(mm)	φ3/8(9.52)			φ3/8(9.52)		
		Gas	inch(mm)	φ5/8(15.9)			φ5/8(15.9)		
	Max.distance	Height/Length	m	30/50			30/50		
Loading quantity		40'GP/40'HQ	-	52/58	45/48	43/47	38/48	43/50	43/47

Model	Outdoor unit			GUHD48NM3FO			GUHD60NM3FO		
	Indoor unit			Duct	Cassette	Floor Ceiling	Duct	Cassette	Floor Ceiling
				GFH48K3FI	GKH48K3FI	GTH48K3FI	GFH60K3FI	GKH60K3FI	GTH60K3FI
Capacity	Cooling		kW	14.0	14.0	14.0	16.0	16.0	16.0
			BTU/h	47768	47768	47768	54592	54592	54592
	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	5.6/3.8	5.6/3.8	5.6/4.0	5.6/3.8	6.1/4.0	5.1/4.0
Power supply			Ph/V/Hz	3/380-415/50			3/380-415/50		
Power input	Cooling		kW	5.10	5.15	5.20	5.60	5.70	5.75
	Heating		kW	4.50	4.50	4.50	4.57	4.70	4.70
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(H/M/L)		CFM	1412	1354	1354	1766	1412	1471
			m^3/h	2400	2300	2300	3000	2400	2500
	ESP	Rated	Pa	50	–	–	50	–	–
		Range	Pa	0-125	–	–	0-150	–	–
	Sound pressure level (SH/H/M/L)		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 (W×D×H)	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	Dimension (W×D×H)	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	–
Outdoor unit	Sound pressure level		dB(A)	59			63		
	Dimension (W×D×H)	Outline	mm	958×412×1349			1085×427×1365		
		Package	mm	1043×453×1500			1143×478×1505		
	Net weight/Gross weight		kg	114/124			126/138		
Connection pipe	Outer diameter	Liquid	inch(mm)	φ3/8(9.52)			φ3/8(9.52)		
		Gas	inch(mm)	φ5/8(15.9)			φ3/4(19.05)		
	Max.distance	Height/Length	m	30/50			30/50		
Loading quantity		40'GP/40'HQ	-	38/48	43/50	43/47	40/40	38/48	39/42

Control System Lineup

Controlling system \ Product series			High efficiency series		
			Duct type	Cassette type	Floor ceiling type
Wireless remote controller	YB1FA		○	●	●
	YV1FB7F		○	○	○
	YV1FB7		○	○	○
	YB1FAF		○	○	○
	YAM1F		○	○	○
	YAM1FF		○	○	○
Wired controller	Z4K351J		●	○	○
	Z4K351CJ		○	○	○
Smart zone controller	CE50-24/E		○	○	○
Other modules: Optoelectronic isolated converter	RS232-RS422 \485		○	○	○
Other modules: Optoelectronic isolated signal multiplier	RS-422\485		○	○	○

Note: ● means standard, ○ means optional.

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R410A

U-Match

Fixed Frequency Series*

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

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

- Double ambient temperature sensor design makes a precision temperature monitoring.
- With low ambitient 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

- Fresh air inlet and air valve control function improve the indoor air quality.
- Flexible air in/outlet and condensing water outlet direction according to different installation requirements.
- Optimized air duct design improves the performance and lower the noise.

Cassette type

- Drain pump fitted as standard with increased lift of 1100mm.
- Special low noise fan design.
- Different swing angle design for cooling and heating mode for better comfort.
- All kinds of air freshener can be installed in the filter, such as catechin

Floor ceiling type

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

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

*:AII product models of this series are not fit for EU.

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

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Model	Outdoor unit			GUHN09NK3AO		GUHN12NK3AO		
	Indoor unit			Duct	Floor Ceiling	Duct	Cassette	Floor Ceiling
				GFH09K3BI	GTH09K3BI	GFH12K3BI	GKH12K3BI	GTH12K3BI
Capacity	Cooling		W	2600	2600	3500	3500	3500
			BTU/h	8870	8870	11940	11940	11940
	Heating		W	2850	2850	3600	3600	3600
			BTU/h	9720	9720	12280	12280	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	550/470/400	550/470/380	600/540/490	550/490/420	550/470/380
			CFM	324/277/235	324/277/224	353/317/288	324/288/247	324/277/224
	ESP	Rated	Pa	25	—	25	—	—
		Range	Pa	0-25	—	0-25	—	—
	Sound pressure level(H/M/L)		dB(A)	37/36/34	47/44/41	40/38/36	47/45/43	47/44/41
	Dimension (W×D×H)		mm	913×680×220	836×695×238	913×680×220	600×600×230	836×695×238
		Package	mm	998×753×273	938×808×310	998×753×273	851×681×325	938×808×310
	Net Weight /Gross Weight		kg	24/29	25/32	25/30	20/27	26/33
Panel	Dimension (W×D×H)	Outline	mm	—	—	—	650×650×50	—
		Package	mm	—	—	—	670×730×102	—
	Net weight/Gross weight		kg	—	—	—	2.5/3.5	—
Outdoor unit	Sound pressure level		dB(A)	55		56		
	Dimension (W×D×H)	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	inch(mm)	φ1/4(6.35)		φ1/4(6.35)		
		Gas	inch(mm)	φ3/8(9.52)		φ1/2(12.7)		
	Max.distance	Height/Length	m	15/20		15/20		
Loading quantity		40'GP/40'HQ	set	123/160	116/143	123/160	113/144	116/143

Model	Outdoor unit			GUHN18NK3AO			GUHN24NK3AO		
	Indoor unit			Duct	Cassette	Floor Ceiling	Duct	Cassette	Floor Ceiling
				GFH18K3BI	GKH18K3BI	GTH18K3BI	GFH24K3BI	GKH24K3BI	GTH24K3BI
Capacity	Cooling		W	5000	5000	5000	7000	6800	7000
			BTU/h	17060	17060	17060	23880	23200	23880
	Heating		W	5700	5400	5700	8000	7500	8000
			BTU/h	19450	18430	19450	27300	25600	27300
EER/COP			W/W	2.38/3.17	2.50/2.84	2.46/2.75	2.63/3.19	2.60/3.00	2.68/3.09
Power supply			Ph/V/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Power input	Cooling		kW	2.10	2.00	2.03	2.66	2.62	2.61
	Heating		kW	1.80	1.90	2.07	2.51	2.50	2.59
Current input	Cooling		A	9.4	9.0	9.3	12.1	11.9	11.8
	Heating		A	8.0	8.7	9.5	11.4	11.4	11.7
Refrigerant charge volume			kg	1.5	1.5	1.5	2.2	2.2	2.2
Indoor unit	Air flow volume(H/M/L)		m^3/h	840/750/680	550/490/420	700/640/570	1600/1400/1200	1180/1080/1000	1170/1080/1000
			CFM	494/441/400	324/288/247	412/377/335	941/824/706	694/636/589	688/635/588
	ESP	Rated	Pa	25	—	—	25	—	—
		Range	Pa	0-25	—	—	0-100	—	—
	Sound pressure level(H/M/L)		dB(A)	42/40/38	47/45/43	54/50/46	47/44/42	47/45/43	50/48/46
	Dimension (W×D×H)		mm	1012×736×266	600×600×230	836×695×238	1270×530×268	840×840×240	1300×600×188
		Package	mm	1123×798×323	851×681×325	938×808×310	1348×597×283	963×363×325	1417×727×263
	Net Weight /Gross Weight		kg	34/41	20/27	26/33	37/43	27/36	33/40
Panel	Dimension (W×D×H)	Outline	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			59		
	Dimension (W×D×H)	Outline	mm	820×320×540			1018×412×695		
		Package	mm	873×363×605			1103×453×770		
	Net weight /Gross weight		kg	40/45			59/64		
Connection pipe	Outer diameter	Liquid	inch(mm)	φ1/4(6.35)			φ3/8(9.52)		
		Gas	inch(mm)	φ1/2(12.7)			φ5/8(15.9)		
	Max.distance	Height/Length	m	15/20			15/30		
Loading quantity		40'GP/40'HQ	set	116/132	113/144	116/143	92/94	52/60	88/98

Model	Outdoor unit			GUHN30NK3A1O			GUHN36NK3AO		
	Indoor unit			Duct	Cassette	Floor Ceiling	Duct	Cassette	Floor Ceiling
				GFH30K3B1I	GKH30K3B1I	GTH30K3B1I	GFH36K3BI	GKH36K3BI	GTH36K3BI
Capacity	Cooling		W	8300	8300	8500	9800	10000	10000
			BTU/h	28320	28320	29002	33440	34120	34120
	Heating		W	9100	8800	9800	11000	11000	11000
			BTU/h	31050	30020	33440	37530	37530	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	1500/1300/1100	1400/1270/1170	1600/1450/1300	2000/1900/1800	1660/1570/1500	1800/1630/1520
			CFM	882/765/647	824/747/689	942/853/765	1177/1118/1059	977/924/883	1059/959/895
	ESP	Rated	Pa	37	—	—	37	—	—
		Range	Pa	0-100	—	—	0-150	—	—
	Sound pressure level(H/M/L)		dB(A)	47/44/42	51/49/48	52/51/49	50/48/46	53/51/48	54/51/48
	Dimension (W×D×H)		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	1578×828×345	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 (W×D×H)	Outline	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			60		
	Dimension (W×D×H)	Outline	mm	980×427×790			1018×412×840		
		Package	mm	1083×488×855			1103×453×1000		
	Net weight /Gross weight		kg	70/75			90/100		
Connection pipe	Outer diameter	Liquid	inch(mm)	φ3/8(9.52)			φ1/2(12.7)		
		Gas	inch(mm)	φ5/8(15.9)			φ3/4(19.05)		
	Max.distance	Height/Length	m	15/30			30/50		
Loading quantity		40'GP/40'HQ	set	74/85	56/64	72/84	64/70	44/53	55/58

Model	Outdoor unit			GUHN36NM3AO			GUHN42NM3AO		
	Indoor unit			Duct	Cassette	Floor Ceiling	Duct	Cassette	Floor Ceiling
				GFH36K3BI	GKH36K3BI	GTH36K3BI	GFH42K3BI	GKH42K3BI	GTH42K3BI
Capacity	Cooling		W	9800	10000	9800	12000	12000	12000
			BTU/h	33440	34120	33440	40940	40940	40940
	Heating		W	11000	11000	10780	14000	14000	14000
			BTU/h	37530	37530	36780	47770	47770	47770
EER/COP			W/W	2.45/3.14	2.78/3.55	2.72/3.27	2.26/2.86	2.50/2.80	2.50/2.98
Power supply			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	3.10	3.30	4.90	5.00	4.70
Current input	Cooling		A	7.0	6.7	6.7	9.6	8.7	8.7
	Heating		A	6.3	5.7	6.0	8.9	8.5	8.5
Refrigerant charge volume			kg	3.2	3.2	3.2	3.55	3.55	3.55
Indoor unit	Air flow volume(H/M/L)		m^3/h	2000/1900/1800	1660/1570/1500	1800/1630/1520	2000/1900/1800	1660/1570/1500	1800/1630/1520
			CFM	1177/1118/1059	977/924/883	1059/959/895	1177/1118/1059	977/924/883	1059/959/895
	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 (W×D×H)		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 (W×D×H)	Outline	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			60		
	Dimension (W×D×H)	Outline	mm	1018×412×840			1032×412×1250		
		Package	mm	1103×453×1000			1113×453×1400		
	Net weight /Gross weight		kg	90/100			112/123		
Connection pipe	Outer diameter	Liquid	inch(mm)	φ1/2(12.7)			φ1/2(12.7)		
		Gas	inch(mm)	φ3/4(19.05)			φ3/4(19.05)		
	Max.distance	Height/Length	m	30/50			30/50		
Loading quantity		40'GP/40'HQ	set	64/70	44/53	55/58	45/49	42/48	44/49

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U-Match(Fixed Frequency Series)

Model	Outdoor unit			GUHN48NM3A1O			GUHN60NM3A2O		
	Indoor unit			Duct	Cassette	Floor Ceiling	Duct	Floor Ceiling	Cassette
				GFH48K3B1I	GKH48K3B1I	GTH48K3B1I	GFH60K3B2I	GTH60K3B2I	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	2.58/3.40
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	4.5	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	—	—	—	1040x1040x65
		Package	mm	—	1028x1043x130	—	—	—	1137x1137x140
	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			117/128		
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			U-Match		
			Fixed frequency series		
			Duct type	4-Way Cassette type	Floor ceiling type
Wireless remote controller	Y512		○	●	●
	YB1F2		○	○	○
	YX1F		○	○	○
Wired controller	Z4B351A		○		
	ZY512A		●		
	Z7A351A			○	○
	Z4E351A		○	○	○
Smart zone controller	ZJ401A		○	○	○
	CE50-24/E		○	○	○
Other modules: Optoelectronic isolated converter	RS232-RS422\485		○	○	○
Other modules: Optoelectronic isolated signal multiplier	RS-422\485		○	○	○
Long-distance monitoring software: Gree AC Eudemon 2009*	FE30-00/A(M)		○	○	○
BMS accessories: Communication module (modbus)	ME30-00/E2		○	○	○

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.

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R410A

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		Outdoor condition
	DB (℃)	WB (℃)	DB (℃)	WB (℃)	DB (℃)
Cooling	35	24	27	19	-15~43
Heating	7	6	20	15	-7~24

Model	Heat pump			FGR20/BNa-M	FGR25/CNa-M	FGR30/BNa-M	FGR40/BNa-M
Capacity	Cooling		kW	20	24.5	30	39.5
			BTU/h	68200	83597	102364	134780
	Heating		kW	22	27.5	33	42
			BTU/h	75067	93834	112601	143310
EER/COP			W/W	2.38/3.14	2.5/3.06	2.4/3.14	2.50/3.00
Power supply			Ph/V/Hz	3/380-415/50	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	22.6	26.6
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	5500	7000
	ESP	Rated	Pa	200	110	110	150
		Range	Pa	100-300	30-250	50-250	50-300
	Sound pressure level		dB (A)	56	54	57	58
	Dimension (W×D×H)	Outline	mm	1463×799×389	1500×1000×500	1500×1000×500	1700×1100×650
		Package	mm	1546×886×485	1840×1230×688	1840×1230×688	1893×1463×850
	Net weight /Gross weight		kg	86/109	150/200	156/206	215/265
Outdoor unit	Sound pressure level		dB (A)	65	66	67	69
	Dimension (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)
	Max. distance	Height	m	30	30	30	30
		Length	m	50	50	50	50
Loading quantity	20'GP		set	17	13	13	8
	40'GP/40'HQ		set	36/36	28/38	28/38	16/16

*:All product models of this series are not fit for EU.

Control System Lineup

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

Note:
● means standard, ○ means optional.
* If Long-distance monitoring software Gree 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 quantinty of outdoor units.

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MULTI-VRF

Free Match 4 & 4+
Super Free-Match
All DC Inverter VRF (GMV5)
GMV5 HR
GMV5 Home
Energy Recovery Ventilation(ERV)
Control System Lineup

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INVERTER R410A

Free Match 4 & 4+

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

High efficiency | Intelligent defrosting | Comprehensive protection | Compact design | Easier maintainability | Inner groove copper | Turbo function

Self-diagnosis | Low voltage startup | Wide operation range | Memory function | Wide voltage range | 24 hour timer | Child lock

- Operate stably when cooling at -15℃.
- Different units for selection, 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)NK3MO	GWHD(28)NK3KO	GWHD(36)NK3BO	GWHD(42)NK3AO
Capacity	Cooling	BTU/h	14000	18000	21000	24000	28000	35826	41285
	Heating	BTU/h	15000	18400	22000	29000	31800	40944	44356
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	kW	1.2	1.45	1.91	2.18	2.54	3.5	3.59
	Heating	kW	1.18	1.45	1.73	2.28	2.49	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		m^3/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	mm	899×596×378	955×396×700	955×396×700	980×790×427	980×790×427	1088×440×1107	1088×440×1107
	Package	mm	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	43/46	51/55.5	62/66.5	68/73	69/74	94/104	102/112
Connecting pipe diameter	Gas	inch(mm)	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	inch(mm)	1/4 (φ6.35)	1/4 (φ6.35)	1/4 (φ6.35)	1/4 (φ6.35)	1/4 (φ6.35)	1/4 (φ6.35)	1/4 (φ6.35)
Max. equivalent connection pipe length		m	20	20	60	60	70	70	70
Maximum drive IDU NO.		unit	5	5	5	5	5	4	5
Loading quantity	40'GP/40'HQ	set	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(℃)	WB(℃)	DB(℃)	WB(℃)	DB(℃)	DB(℃)
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
-	12+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)NK3MO

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

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+9	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+12	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+12+12+12	9+9+12+12	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

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Indoor Unit Lineup

Capacity Index(Btu/h)		7000	9000	12000	18000	21000	24000
Wall-mounted type	Hansol	●	●	●	●		●
	Viola	●	●	●	●		●
	Lomo	●	●	●	●		●
	Cozy	●	●	●	●		●
	change	●	●	●	●		●
	U-crown		●	●	●		
Duct type			●	●	●	●	●
Cassette type				●	●		●
Floor ceiling type			●	●	●		
Console			●	●	●		

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	BTU/h	7200	8530	12000	18084	23800
	Heating	BTU/h	8880	10920	13600	18425	24900
Power supply		Ph/V/Hz	1Ph,220-240V,50Hz				
Airflow volume		m³/h	600	650	750	950	1200
		CFM	353	383	441	559	706
Sound pressure level(SH/H/MH/M/ML/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	inch(mm)	3/8（φ9.52）	3/8（φ9.52）	1/2（φ12）	5/8（φ16）	5/8（φ16）
	Liquid	inch(mm)	1/4（φ6）	1/4（φ6）	1/4（φ6）	1/4（φ6）	1/4（φ6）
Dimension (W×H×D)	Outline	mm	806×209×292	806×209×292	806×209×292	1018×230×319	1178x264x325
	Package	mm	888×297×377	888×297×377	945×297×377	1097×340×397	1256x364x414
Net weight/Gross weight		kg	10/12	11/12	11.0/13.0	14.0/17.0	17.0/21.0
Loading quantity	20'GP	set	276	276	276	174	132
	40'GP/40'HQ	set	566/640	566/640	566/640	366/427	276/322

Lomo (Free Match 4&4+)*

Model			GWH07QB-K3DNA1G/I	GWH09QB-K3DNA1G/I	GWH12QC-K3DNA1G/I	GWH18QD-K3DNA1G/I	GWH24QE-K3DNA1G/I
Capacity	Cooling	BTU/h	7165	8880	12000	17500	23800
	Heating	BTU/h	8871	9550	12500	18000	24900
Power supply		Ph/V/Hz	1Ph,220-240V,50Hz				
Airflow volume		m³/h	550	560	660	800	1150
		CFM	324	330	388	471	677
Sound pressure level(H/M/L/SL)		dB(A)	38/36/32/26	55/52/44/38	42/39/33/26	46/42/39/36	48/45/42/39
Connecting pipe	Gas	inch(mm)	3/8（φ9.52）	3/8（φ9.52）	3/8（φ9.52）	1/2（φ12）	5/8（φ16）
	Liquid	inch(mm)	1/4（φ6）	1/4（φ6）	1/4（φ6）	1/4（φ6）	1/4（φ6）
Dimension (W×H×D)	Outline	mm	790×200×257	790×200×257	845×209×289	970×300×224	955×700×396
	Package	mm	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	229	172
	40'GP/40'HQ	set	692/804	692/804	600/674	489/557	336/392

Cozy (Free Match 4&4+)

Model			GWH07MB-K3DNE3G/I	GWH09MB-K3DNE3G/I	GWH12MB-K3DNE3G/I	GWH18MC-K3DNE3G/I	GWH24MD-K3DNE3G/I
Capacity	Cooling	BTU/h	7200	8900	12000	18000	22000
	Heating	BTU/h	8880	10240	13600	19800	24000
Power supply		Ph/V/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	inch(mm)	3/8(φ9.52)	3/8(φ9.52)	3/8(φ9.52)	1/2(φ12)	5/8（φ16）
	Liquid	inch(mm)	1/4（φ6）	1/4（φ6）	1/4（φ6）	1/4（φ6）	1/4（φ6）
Dimension (W×H×D)	Outline	mm	845×180×275	845×180×275	845x180x275	940x200x295	1007×315×219
	Package	mm	918×370×258	918×370×258	918×370×258	1013x383x300	1076×398×328
Net weight/Gross weight		kg	9/11	9/11	9/11	12.0/15.0	15/18.5
Loading quantity	20'GP	set	318	318	318	254	210
	40'GP/40'HQ	set	684×798	684×798	684/798	541/609	434/496

*: This series can not match with 36/42K outdoor unit.

Viola (Free Match 4&4+)*

Model			GWH07RB-K3DNA5G/I	GWH09RB-K3DNA5G/I	GWH12RB-K3DNA5G/I	GWH18RC-K3DNA5G/I	GWH24RD-K3DNA5G/I
Capacity	Cooling	BTU/h	7200	8880	12000	18000	22000
	Heating	BTU/h	8880	10240	13000	19790	24000
Power supply		Ph/V/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	41/39/34/28	42/40/35/30	45/43/37/33	51/47/42/39
Connecting pipe	Gas	inch(mm)	3/8(φ9.52)	3/8(φ9.52)	3/8(φ9.52)	1/2(φ12)	5/8（φ16）
	Liquid	inch(mm)	1/4（φ6）	1/4（φ6）	1/4（φ6）	1/4（φ6）	1/4（φ6）
Dimension (W×H×D)	Outline	mm	848x189x274	848x189x274	848x189x274	945x208x298	1018×233×315
	Package	mm	926x267x371	926x267x371	926x267x371	1013x383x300	1086×328×398
Net weight/Gross weight		kg	9.0/11.0	9.0/11.0	9.0/12.0	12.0/15.0	15/18.5
Loading quantity	20'GP	set	306	306	306	252	203
	40'GP/40'HQ	set	636/742	636/742	636/742	541/609	427/488

Change (Free Match 4&4+)

Model			GWH07KF-K3DNA6G/I	GWH09KF-K3DNA6G/I	GWH12KF-K3DNA6G/I	GWH18KG-K3DNA6G/I	GWH24KG-K3DNA6G/I
Capacity	Cooling	BTU/h	7200	8880	12000	18000	22007
	Heating	BTU/h	8880	9550	13000	19000	23884
Power supply		Ph/V/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	inch(mm)	3/8(φ9.52)	3/8(φ9.52)	3/8(φ9.52)	1/2(φ12)	5/8（φ16）
	Liquid	inch(mm)	1/4（φ6）	1/4（φ6）	1/4（φ6）	1/4（φ6）	1/4（φ6）
Dimension (W×H×D)	Outline	mm	770x283x201	770x283x201	770x283x201	865x305x215	1007×315×219
	Package	mm	847x345x276	847x345x276	847x345x276	948x383x310	1076×398×328
Net weight/Gross weight		kg	328	328	9.0/10.5	12.0/15.0	14/17
Loading quantity	20'GP	set	335	335	335	264	210
	40'GP/40'HQ	set	700/786	700/786	700/786	542/616	434/496

U Crown(Free Match 4）

Model			GWH09UB-K3DNA4F/I	GWH12UB-K3DNA4F/I	GWH18UC-K3DNA4F/I
Capacity	Cooling	BTU/h	9000	12000	18000
	Heating	BTU/h	10200	12300	18000
Power supply		Ph/V/Hz	1Ph,220-240V,50Hz		
Airflow volume		m³/h	650	720	850
		CFM	389	424	500
Sound pressure level(H/M/L/SL)		dB(A)	41/37/35/33/30/22/19	43/38/36/34/31/23/20	46/42/40/36/33/25/22
Connecting pipe	Gas	inch(mm)	1/2(φ12.7)	1/2(φ12.7)	1/2(φ12.7)
	Liquid	inch(mm)	1/4(φ6.35)	1/4(φ6.35)	1/4(φ6.35)
Dimension (W×H×D)	Outline	mm	899x596x378	899x596x378	950700x396
	Package	mm	948x645x420	948x645x420	1029x750x458
Net weight/Gross weight		kg	44.5/47.5	44.5/47.5	51/55.5
Loading quantity	20'GP	set	79	79	58
	40'GP/40'HQ	set	165/191	165/191	123/141

Console Type Indoor Unit*1

Model			GEH(09)AA-K3DNA1B/I	GEH(12)AA-K3DNA1B/I	GEH(18)AA-K3DNA1B/I
Function			Cooling/Heating	Cooling/Heating	Cooling/Heating
Capacity	Cooling	Btu/h	8900	11900	18100
	Heating	Btu/h	9600	13000	19800
Airflow Volume		m³/h	480	550	650
Sound Pressure Level(SH/H/MH/M/ML/L/SL)		dB(A)	40/38/36/33/30/26/24	42/40/38/37/35/32/26	48/46/44/41/37/35/32
Outline Dimension	WxHxD	mm	700x600x215	700x600x215	700x600x215
Package Dimension	WxHxD	mm	788x697x283	788x697x283	788x697x283
Net Weight /Gross Weight		kg	15/18	15/18	15/18
Loading Quantity	40'GP	sets	392	392	392
	40'HQ	sets	454	454	454

*: This series can not match with 36/42K outdoor unit.

*1: This series can be match 36/42K outdoor units only.

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Cassette Type Indoor Unit

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	13648	17060	27296
Power supply			Ph/V/Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz
Airflow volume			m³/h	600	600	1180
			CFM	353	353	694
Sound pressure level(H/L)			dB(A)	46/42	46/42	39/35
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	Dimention (W×D×H)	Outline	mm	570x570x230	570x570x230	840×840×240
		Package	mm	851x731x325	851x731x325	963x963x325
Panel	Net weight/Gross weight		kg	18/23	18/23	28/35
	Dimention (W×D×H)	Outline	mm	650×650×50	650×650×50	950×950×60
		Package	mm	733×673×117	733×673×117	1043×1028×130
Loading quantity	Net Weight/Gross weight		kg	2.5/3.5	2.5/3.5	6.5/10
	20'GP		set	102	102	40
	40'GP/40'HQ		set	209/246	209/246	108/128

Duct Type Indoor Unit

Model			GFH(09)EA-K3DNA1A/I	GFH(12)EA-K3DNA1A/I	GFH(18)EA-K3DNA1A/I	GFH(21)EA-K3DNA1A/I	GFH(24)EA-K3DNA1A/I
Capacity	Cooling	BTU/h	8530	11942	17060	20472	24230
	Heating	BTU/h	9550	13140	18770	22520	27300
Power supply		Ph/V/Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz
Airflow volume		m³/h	450	550	700	1000	1000
		CFM	265	324	412	589	589
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×D×H)	Outline	mm	700×615×200	700×615×200	900×615×200	1100×615×200	1100×615×200
	Package	mm	893×743×305	893×743×305	1123×743×305	1323×743×305	1323×743×305
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

Floor Ceiling Type Indoor Unit

Model			GTH(09)BA-K3DNA1A/I	GTH(12)BA-K3DNA1A/I	GTH(18)BA-K3DNA1A/I	GTH(24)BA-K3DNA1A/I
Capacity	Cooling	BTU/h	8530	11942	17060	24225
	Heating	BTU/h	9554	13136	18766	27296
Power supply		Ph/V/Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz	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	1220x700x225	1220×700×225	1220×700×225	1220×700×225
	Package	mm	1343x823x315	1343×823×315	1343x823x315	1343x823x315
Net weight/Gross weight		kg	40/50	40/50	40/50	45/54
Loading quantity	20'GP	set	66	66	66	66
	40'GP/40'HQ	set	132/132	132/132	132/132	132/132

Control System Lineup

Controlling system \ Product series			Wall-mounted type						Duct type	Cassette type	Floor ceiling type	Console type
			U Crown	Hansol	Viola	Lomo	Cozy	Change				
Wireless remote controller	YAA1FB1											●
	YAA1FB				●							
	YT1F(XFAN)						●					
	YB1F2 (XFAN)							●				
	YAN1F1(XFAN)					●						
	YAG1FB			●								
	YT1F(MOTO)								●	●	●	
	SAA1FB1		●									
Wired controller	XK19								●	●	●	
Centralized controller	CE50-24/E								●	●	●	

Note: ● means standard, ● means optional.

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INVERTER R410A

Super Free-match

Capacity range from 42K to 56K Btu/h can be widely used in residential house, hotel, business office and especially applicable in variable loading situation.

FXA**

FXB**

High efficiency | Intelligent defrosting | Comprehensive protection | Compact design | Easier maintainability | Inner groove copper | Turbo function | Self-diagnosis | Low voltage startup

Centralized control | Long-distance monitoring | Wide operation range | Memory function | Wide voltage range | 24 hour timer | Weekly timer | Child lock

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

GWHD**NK3CO

Item	Nominal operating condition(temperature)				Operation range(temperature)
	Outdoor condition		Indoor condition		Outdoor condition
	DB(℃)	WB(℃)	DB(℃)	WB(℃)	DB(℃)
Cooling	35	24	27	19	Cooling:-15~48（with low ambient cooling) Cooling:18~48(without low ambient cooling)
Heating	7	6	20	15	Heating:-20~24(with low ambient cooling) Heating:-10~24(without low ambient cooling)

GWHD**NM3CO

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

163 Combinations

GWHD(42S)NK3CO (2 to 6)

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

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

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

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288 Combinations

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

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

448 Combinations

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

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

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

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

Outdoor Unit

Model	Heat Pump		GWHD(42S)NK3CO	GWHD(48S)NK3CO	GWHD(48S)NM3CO	GWHD(56S)NK3CO	GWHD(56S)NM3CO
Capacity	Cooling	BTU/h	41300	47800	47800	52900	54600
	Heating	BTU/h	42700	53000	54600	59700	61400
EER/COP	Cooling	kW/kW	2.95/3.38	2.86/3.60	2.90/3.20	2.92/3.65	2.80/3.50
Power supply		Ph/V/Hz	1/220~240/50	1/220~240/50	3/380~415/50	1/220~240/50	3/380~415/50
Power input	Cooling	kW	4.10	4.90	4.40	5.30	5.00
	Heating	kW	3.70	4.30	4.25	4.80	4.70
Refrigerant charge volume		kg	4.95				
Air Pressure Level		m^3/h	6400	6400	6600	7000	6600
Sound pressure level		dB(A)	55	55	58	58	58
Dimension(W×D×H)	Outline	mm	900×340×1345	900×340×1345	900×340×1345	900×340×1345	900×340×1345
	Package	mm	993×453×1500	993×453×1500	993×453×1500	993×453×1500	993×453×1500
Net weight/Gross weight		kg	116/128	116/128	116/123	116/128	116/123
Connecting pipe diameter	Gas	inch(mm)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)	φ3/4(19.05)
	Liquid	inch(mm)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)
Max. equivalent connection pipe length		m	70	70	70	70	70
Maximum drive IDU NO.		unit	6	8	8	9	9
Loading quantity	40'GP/40'HQ	set	50/50	50/50	50/50	50/50	50/50

BU Module

Model			FXA2A-K	FXA2B-K	FXA3A-K	FXA3B-K	FXB3A-K	FXB5A-K
Fuse current		A	3.15	3.15	3.15	3.15	3.15	3.15
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
Sound pressure level		dB(A)	28	28	28	28	30	30
Sound Power Level		dB(A)	38	38	38	38	40	40
Dimension(W×D×H)	Outline	mm	532×313×182	532×313×182	532×313×182	532×313×182	617×410×193	617×410×193
	Package	mm	683×392×270	683×392×270	683×392×270	683×392×270	676×473×275	676×473×275
Connection Method		—	Flare	Braze	Flare	Braze	Flare	Flare
No. of IDU can connected		—	2	2	3	3	3	5
Type of ODU can connected		—	Single phase ODU				Three phase ODU	
Net weight/Gross weight		kg	6.0/8.0	6.0/8.5	6.5/8.5	6.5/8.5	8/10	9/11
Connecting pipe diameter (to IDU)	Gas	inch(mm)	φ3/8(9.52)	φ5/8(16.3)	φ3/8(9.52)	φ5/8(16.3)	φ3/8(9.52)	φ5/8(16.3)
	Liquid	inch(mm)	φ1/4(6.35)	φ1/4(6.5)	φ1/4(6.35)	φ1/4(6.5)	φ1/4(6.35)	φ1/4(6.5)
Connecting pipe diameter (to ODU)	Gas	inch(mm)	φ5/8(15.9)	φ3/4(16.3)	φ5/8(15.9)	φ3/4(16.3)	φ5/8(15.9)	φ3/4(16.3)
	Liquid	inch(mm)	φ3/8(9.52)	φ3/8(9.7)	φ3/8(9.52)	φ3/8(9.7)	φ3/8(9.52)	φ3/8(9.7)
Maximum connect IDU NO.		unit	2	2	3	3	3	5
Loading quantity	40'GP	set	294	294	294	294	246	246
	40'HQ	set	294	294	294	294	246	246
Max. Equivalent Connection Pipe Length (BU unit to Last Indoor)		m	15	15	15	15	15	15

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Wall Mounted Indoor Unit

U Crown

Model			GWH09UB-K3DNA4F/I	GWH12UB-K3DNA4F/I	GWH18UC-K3DNA4F/I
Capacity	Cooling	BTU/h	9000	12000	18000
	Heating	BTU/h	10200	12300	18000
Power supply		Ph/V/Hz	1Ph,220~240V,50Hz	1Ph,220~240V,50Hz	1Ph,220~240V,50Hz
Airflow volume		m^3/h	650	720	850
		CFM	383	424	500
Sound pressure level(SH/H/MH/M/ML/L/SL)		dB(A)	41/37/35/33/30/22/19	43/38/36/34/31/23/20	46/42/40/36/33/25/22
Connecting pipe	Gas	inch(mm)	1/2(φ12.7)	1/2(φ12.7)	1/2(φ12.7)
	Liquid	inch(mm)	1/4(φ6.35)	1/4(φ6.35)	1/4(φ6.35)
Dimension (W×H×D)	Outline	mm	899×596×378	899×596×378	950×700×396
	Package	mm	948×645×420	948×645×420	1029×750×458
Net weight/Gross weight		kg	44.5/47.5	44.5/47.5	51/55.5
Loading quantity	20'GP	set	79	79	58
	40'GP/40'HQ	set	165/191	165/191	123/141

U-Cool

Model			GWH(07)UA-K3DNA1B/I	GWH(09)UA-K3DNA1B/I	GWH(12)UB-K3DNA1B/I	GWH(18)UC-K3DNA1B/I
Capacity	Cooling	BTU/h	7167	8874	11946	18089
	Heating	BTU/h	8874	9556	12969	19795
Power supply		Ph/V/Hz	1/220~240/50	1/220~240/50	1/220~240/50	1/220~240/50
Airflow volume		m^3/h	450	450	560	850
		CFM	265	265	329	500
Sound pressure level (SH/H/MH/M/ML/L/SL)		dB(A)	37/35/32/30/28/26/24	38/34/32/29/27/25/22	39/36/34/31/29/27/23	44/40/37/35/33/31/28
Connecting pipe	Gas	inch(mm)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)	φ1/2(12.7)
	Liquid	inch(mm)	φ1/4(6.35)	φ1/4(6.35)	φ1/4(6.35)	φ1/4(6.35)
Dimension(WxHxD)	Outline	mm	860X153X299	860X153X299	896X159X320	998X178X340
	Package	mm	944X247X386	944X247X386	973X255X403	1083X283X428
Net weight/Gross weight		kg	9.5/12.5	9.5/12.5	11.5/14.5	15/19
Loading quantity	20'GP	set	324	324	279	216
	40' GP/40' HQ	set	666/740	666/740	585/650	440/495

Cozy

Model			GWH(07)MA-K3DNA3E/I	GWH(09)MA-K3DNA3E/I	GWH(12)MB-K3DNA3E/I	GWH(18)MC-K3DNA3E/I
Capacity	Cooling	BTU/h	7167	8874	11946	18089
	Heating	BTU/h	8874	9556	12969	19795
Power supply		Ph/V/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 (SH/H/M/L)		dB(A)	36/34/31/28	37/34/31/28	38/34/32/30	46/43/40/36
Connecting pipe	Gas	inch(mm)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)	φ1/2(12.7)
	Liquid	inch(mm)	φ1/4(6.35)	φ1/4(6.35)	φ1/4(6.35)	φ1/4(6.35)
Dimension(WxHxD)	Outline	mm	790X170X265	790×170×265	845×180×275	940×200×298
	Package	mm	873X251X370	873×251×370	918×258×370	1013×288×395
Net weight/Gross weight		kg	9/11	9/11	10/12.5	13/16
Loading quantity	20'GP	set	348	348	336	254
	40' GP/40' HQ	set	732/852	732/852	684/798	541/609

Change

Model			GWH(07)KF-K3DNA6E/I	GWH(09)KF-K3DNA6E/I	GWH(12)KF-K3DNA6E/I	GWH(18)KG-K3DNA6E/I
Capacity	Cooling	BTU/h	7167	8874	11946	18089
	Heating	BTU/h	8874	9556	12969	19795
Power supply		Ph/V/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 (SH/H/M/L)		dB(A)	40/38/30/24	41/38/30/24	42/39/31/25	45/40/37/32
Connecting pipe	Gas	inch(mm)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)	φ1/2(12.7)
	Liquid	inch(mm)	φ1/4(6.35)	φ1/4(6.35)	φ1/4(6.35)	φ1/4(6.35)
Dimension(WxHxD)	Outline	mm	700X201X283	770X201X283	770X201X283	865X215X305
	Package	mm	847X264X357	847X264X357	847X264X357	948X298X395
Net weight/Gross weight		kg	8/10	8/10	9/11	12/15
Loading quantity	20'GP	set	336	336	336	264
	40' GP/40' HQ	set	696/783	696/783	696/783	542/616

Hansol

Model			GWH(07)TA-K3DNA1E/I	GWH(09)TA-K3DNA1E/I	GWH(12)TB-K3DNA1E/I	GWH(18)TC-K3DNA1E/I
Capacity	Cooling	BTU/h	7167	8533	11946	18089
	Heating	BTU/h	8874	9386	12457	19113
Power supply		Ph/V/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(SH/H/MH/M/ML/L/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	806×209×292	806×209×292	866×209×292	1018×230×319
	Package	mm	888×297×377	888×297×377	945×297×377	1097×397×340
Net weight/Gross weight		kg	10.5/13.0	10.5/13.0	11.0/13.5	15.0/18.5
Loading quantity	20'GP	set	266	266	252	174
	40' GP/40' HQ	set	553/632	553/632	518/592	366/427

Viola

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

Duct Type Indoor Unit

Model			GFH(09)EA-K3DNA1A/I	GFH(12)EA-K3DNA1A/I	GFH(18)EA-K3DNA1A/I	GFH(21)EA-K3DNA1A/I	GFH(24)EA-K3DNA1A/I
Capacity	Cooling	BTU/h	8530	11940	17060	20470	24230
	Heating	BTU/h	9550	13140	18770	22520	27300
Power supply		Ph/V/Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz
Airflow volume		m^3/h	450	550	700	1000	1000
		CFM	265	324	412	589	589
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×D×H)	Outline	mm	700×615×200	700×615×200	900×615×200	1100×615×200	1100×615×200
	Package	mm	893×743×305	893×743×305	1123×743×305	1323×743×305	1323×743×305
Net weight/Gross weight		kg	22/27	23/29	27/36	31/41	31/41
Loading quantity	20'GP	set	108	108	90	72	72
	40'GP/40'HQ	set	234/234	234/234	180/180	162/162	162/162

Cassette Type Indoor Unit

Model				GKH(12)BA-K3DNA2A/I	GKH(18)BA-K3DNA2A/I	GKH(12)BA-K3DNA1A/I	GKH(18)BA-K3DNA1A/I	GKH(24)BA-K3DNA1A/I
Capacity	Cooling		BTU/h	11942	15354	11942	17060	24225
	Heating		BTU/h	13648	17060	13136	18766	27296
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
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	Dimention (W×D×H)	Outline	mm	570×570×230	570×570×230	840X840X190	840X840X190	840×840×240
		Package	mm	851×731×325	851×731×325	963x963x273	963x963x273	963×963×325
Panel	Net weight/Gross weight		kg	18/23	18/23	25/33	25/33	28/35
	Dimention (W×D×H)	Outline	mm	650×650×50	650×650×50	950×950×60	950×950×60	950×950×60
		Package	mm	733×673×117	733×673×117	1043×1028×130	1043×1028×130	1043×1028×130
Loading quantity	Net weight/Gross weight		kg	2.5/3.5	2.5/3.5	6.5/10	6.5/10	6.5/10
	20'GP		set	102	102	48	48	40
	40'GP/40'HQ		set	209/246	209/246	128/144	128/144	108/128

Floor Ceiling Type Indoor Unit

Model			GTH(09)BA-K3DNA1A/I	GTH(12)BA-K3DNA1A/I	GTH(18)BA-K3DNA1A/I	GTH(24)BA-K3DNA1A/I
Capacity	Cooling	BTU/h	8530	11942	17060	24225
	Heating	BTU/h	9554	13136	18766	27296
Power supply		Ph/V/Hz	1/220~240/50	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz	1Ph,220-240V,50Hz
Airflow volume		m^3/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)	Φ3/8(9.52)	3/8(φ9.52)	1/2(φ12.7)	5/8(Φ15.88)
	Liquid	inch(mm)	Φ1/4(6.35)	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	1343×823×315	1343×823×315	1343×823×315	1343×823×315
Net weight/Gross weight		kg	40/50	40/50	40/50	45/54
Loading quantity	20'GP	set	66	66	66	66
	40'GP/40'HQ	set	132/132	132/132	132/132	132/132

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Console Type Indoor Unit

Model			GEH(09)AA-K3DNA1C/I	GEH(12)AA-K3DNA1C/I	GEH(18)AA-K3DNA1C/I
Capacity	Cooling	BTU/h	8874	11946	18089
	Heating	BTU/h	9556	12969	19795
Power supply		Ph/V/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 (SH/H/MH/M/ML/L/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	700X600X215	700X600X215	700X600X215
	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
			Lomo	Hansol	U Crown	U-Cool	Cozy	Change	Viola				
Wireless remote controller	YAA1FB1					●							●
	YT1F(MOTO)						●		●	●	●	●	
	YAG1FB			●									
	YB1F2 (XFAN)							●					
	YAN1F1(XFAN)		●										
	SAA1FB1				●								
Wired controller	XK19									●	●	●	
Centralized controller	CE50-24/E									○	○	○	

Note: ● means standard, ○ means optional.

INVERTER R410A

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.
- 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(℃)		
	DB(℃)	WB(℃)	DB(℃)	WB(℃)	GMV5 Mini	GMV5 Slim	GMV5
Cooling	35	-	27	19	-5~52	-5~52	-5~52
Heating	7	6	20	-	-20~27	-20~27	-20~24

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Outdoor Units Lineup

GMV5 Mini

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

GMV5 Slim

HP	Model	Product Outlook
8	GMV-224WL/B-X	
10	GMV-280WL/B-X	
12	GMV-335WL/B-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	16
	Heating	kW	14	16.5	18.5
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	33.6/40
Power comsumption	Cooling	kW	3.05	3.98	4.85
	Heating	kW	3.27	3.99	4.67
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		Φ19.05
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	57
	40' HQ	set	57	57	57

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

Model			GMV-120WL/A-X	GMV-140WL/A-X	GMV-160WL/A-X
Capacity range		HP	4	5	6
Capacity	Cooling	kW	12.10	14.00	16.00
	Heating	kW	14.00	16.50	18.50
EER		kW/kW	3.97	3.52	3.30
COP		kW/kW	4.28	4.14	3.96
Power supply		V/Ph/Hz	380-415V-3Ph-50Hz/60Hz		
Max. Circuit/Fuse Current		A	11.1/5	11.4/5	11.9/5
Power comsumption	Cooling	kW	3.05	3.98	4.85
	Heating	kW	3.27	3.99	4.67
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	φ9.52	φ9.52
	Gas	mm	φ15.9	φ15.9	φ19.05
Dimension (W*D*H)	Outline	mm	900/340/1345	900/340/1345	900/340/1345
	Package	mm	998/458/1515	998/458/1515	998/458/1515
Net weight/Gross weight		kg	120/130	120/130	120/130
Loading quantity	40' GP	set	57	57	57
	40' HQ	set	57	57	57

GMV5 Slim 50/60 Hz

Model			GMV-224WL/B-X*2	GMV-280WL/B-X*2	GMV-335WL/B-X*2
Capacity range		HP	8	10	12
Capacity	Cooling	kW	22.4	28.0	33.5
	Heating	kW	24.0	30.0	35.0
EER		W/W	3.1	2.97	3.04
COP		W/W	4.1	3.66	3.60
IPLV	Cooling	kW/kW	6.1	6.0	6.0
Power supply		V/Ph/Hz	380-415~3Ph~50/60Hz		
Max. Circuit/Fuse Current		A	20	25	32
Power comsumption	Cooling	kW	7.2	9.8	10.6
	Heating	kW	6.1	8.6	10.2
Maximum drive IDU NO.		unit	13	17	20
Refrigerant Charge volume		kg	5.5	7.5	8.0
Sound pressure level	Cooling	dB(A)	58	59	60
	Heating	dB(A)	59	61	61
Connecting pipe	Liquid	mm	Φ9.52	Φ9.52	Φ12.7
	Gas	mm	Φ19.05	Φ22	Φ25.4
Dimension (W*D*H)	Outline	mm	940x320x1430	940x460x1615	940x460x1615
	Package	mm	1038x433x1580	1038x578x1765	1038x578x1765
Net weight/Gross weight		kg	133/144	166/183	177/194
Loading quantity	40' GP	set	54	44	44
	40' HQ	set	54	44	44

Note:

*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	GMV-560WM/B-X	GMV-615WM/B-X
Capacity range		HP	8	10	12	14	16	18	20	22
Capacity	Cooling	kW	22.4	28	33.5	40	45	50.4	56	61.5
	Heating	kW	25	31.5	37.5	45	50	56	63	69
EER		W/W	4.31	4	3.98	3.76	3.56	3.55	3.5	3.32
COP		W/W	4.55	4.32	4.17	4.05	3.85	4.01	3.8	3.65
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	44.7/50	50/63	52/63
Power comsumption	Cooling	kW	5.2	7	8.41	10.65	12.65	14.2	16	18.5
	Heating	kW	5.5	7.3	9	11.1	13	14.1	16.6	18.9
Maximum drive IDU NO.		unit	13	16	19	23	26	29	32	35
Refrigerant Charge volume		kg	5.9	6.7	8.2	9.8	10.3	11.3	14.3	14.3
Sound pressure level		dB(A)	60	61	63	63	63	63	63	64
Connecting pipe	Liquid	mm	Φ9.52		Φ12.7			Φ15.9		
	Gas	mm	Φ19.05	Φ22.2	Φ25.4		Φ28.6	Φ28.6		
	Oil balance	mm	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	360/375	385/400	385/400
Loading	40' GP	set	24	24	16	16	16	16	16	16
	40' HQ	set	24	24	16	16	16	16	16	16

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ODU Combination Lineup-GMV5

MODEL	GMV-224WM/B-X (8HP)	GMV-280WM/B-X (10HP)	GMV-335WM/B-X (12HP)	GMV-400WM/B-X (14HP)	GMV-450WM/B-X (16HP)	GMV-504WM/B-X (18HP)	GMV-560WM/B-X (20HP)	GMV-615WM/B-X (22HP)
GMV-224WM/B-X	●							
GMV-280WM/B-X		●						
GMV-335WM/B-X			●					
GMV-400WM/B-X				●				
GMV-450WM/B-X					●			
GMV-504WM/B-X						●		
GMV-560WM/B-X							●	
GMV-615WM/B-X								●
GMV-680WM/B-X		●		●				
GMV-730WM/B-X		●			●			
GMV-785WM/B-X		●				●		
GMV-850WM/B-X		●					●	
GMV-900WM/B-X		●						●
GMV-960WM/B-X			●					●
GMV-1010WM/B-X				●				●
GMV-1065WM/B-X					●			●
GMV-1130WM/B-X						●		●
GMV-1180WM/B-X							●	●
GMV-1235WM/B-X								●●
GMV-1300WM/B-X		●			●		●	
GMV-1350WM/B-X		●			●			●
GMV-1410WM/B-X			●		●			●
GMV-1460WM/B-X		●					●	●
GMV-1515WM/B-X		●						●●
GMV-1580WM/B-X			●					●●
GMV-1630WM/B-X				●				●●
GMV-1685WM/B-X					●			●●
GMV-1750WM/B-X						●		●●
GMV-1800WM/B-X							●	●●
GMV-1845WM/B-X								●●●
GMV-1908WM/B-X		●			●		●	●
GMV-1962WM/B-X		●				●	●	●
GMV-2016WM/B-X		●					●●	●
GMV-2072WM/B-X		●					●	●●
GMV-2128WM/B-X		●						●●●
GMV-2184WM/B-X			●					●●●
GMV-2240WM/B-X				●				●●●
GMV-2295WM/B-X					●			●●●
GMV-2350WM/B-X						●		●●●
GMV-2405WM/B-X							●	●●●
GMV-2460WM/B-X								●●●●

Specifications of ODU Combination

50/60 Hz

Model	Power Supply	Capacity		Power Input		Dimension(W×D×H)	Airflow Volume	ESP	Sound Pressure Level	Operation sound pressure level at night	Connecting pipe diameter			Min. circuit current	Max. fuse current	Weight
		Cooling	Heating	Cooling	Heating						Liquid	Gas	Oil Balance			
		kW	kW	kW	kW	mm	m^3/h	Pa	dB(A)	dB(A)	mm	mm	mm	A	A	kg
GMV-680WM/B-X	380~415V-3Ph-50/60Hz	68	76.5	17.65	18.4	(930×765×1605) +(1340×765×1605)	11400+14000	82	65	43	Φ15.9	Φ28.6	Φ9.52	54.1	63	225+360
GMV-730WM/B-X		73	81.5	19.65	20.3	(930×765×1605) +(1340×765×1605)	11400+14000	82	65	43	Φ19.05	Φ31.8	Φ9.52	57.9	63	225+360
GMV-785WM/B-X		78.4	88	21.2	21.4	(930×765×1605) +(1340×765×1740)	11400+16000	82	66	43	Φ19.05	Φ31.8	Φ9.52	65.6	80	225+360
GMV-850WM/B-X		84	94.5	23	23.9	(930×765×1605) +(1340×765×1740)	11400+16000	82	67	43	Φ19.05	Φ31.8	Φ9.52	71	80	225+385
GMV-900WM/B-X		89.5	100.5	25.5	26.2	(930×765×1605) +(1340×765×1740)	11400+16000	82	67	43	Φ19.05	Φ31.8	Φ9.52	72.7	80	225+385
GMV-960WM/B-X		95	106.5	26.91	27.9	(1340×765×1605) +(1340×765×1740)	14000+16000	82	68	43	Φ19.05	Φ31.8	Φ9.52	76.5	80	285+385
GMV-1010WM/B-X		101.5	114	29.15	30	(1340×765×1605) +(1340×765×1740)	14000+16000	82	68	43	Φ19.05	Φ38.1	Φ9.52	80.6	100	360+385
GMV-1065WM/B-X		106.5	119	31.15	31.9	(1340×765×1605) +(1340×765×1740)	14000+16000	82	68	43	Φ19.05	Φ38.1	Φ9.52	85	100	360+385
GMV-1130WM/B-X		111.9	125.5	32.7	33	(1340×765×1740) ×2	16000×2	82	68	43	Φ19.05	Φ38.1	Φ9.52	96.5	100	360+385
GMV-1180WM/B-X		117.5	132	34.5	35.5	(1340×765×1740) ×2	16000×2	82	69	43	Φ19.05	Φ38.1	Φ9.52	101.9	125	385+385
GMV-1235WM/B-X		123	138	37	37.8	(1340×765×1740) ×2	16000×2	82	69	43	Φ19.05	Φ38.1	Φ9.52	103.6	125	385+385
GMV-1300WM/B-X		129	144.5	35.65	36.9	(930×765×1605) +(1340×765×1605) +(1340×765×1740)	11400+14000+16000	82	69	45	Φ19.05	Φ38.1	Φ9.52	104.2	125	225+360+385
GMV-1350WM/B-X		134.5	150.5	38.15	39.2	(930×765×1605) +(1340×765×1605) +(1340×765×1740)	11400+14000+16000	82	69	45	Φ19.05	Φ38.1	Φ9.52	105.9	125	225+360+385
GMV-1410WM/B-X		140	156.5	39.56	40.9	(1340×765×1605) ×2+(1340×765×1740)	14000×2+16000	82	69	45	Φ19.05	Φ41.3	Φ9.52	109.7	125	285+360+385
GMV-1460WM/B-X		145.5	163.5	41.5	42.8	(930×765×1605) +(1340×765×1740) ×2	11400+16000×2	82	69	45	Φ19.05	Φ41.3	Φ9.52	122.8	125	225+385×2
GMV-1515WM/B-X		151	169.5	44	45.1	(930×765×1605) +(1340×765×1740) ×2	11400+16000×2	82	70	45	Φ19.05	Φ41.3	Φ9.52	124.5	125	225+385×2
GMV-1580WM/B-X		156.5	175.5	45.41	46.8	(1340×765×1605) +(1340×765×1740) ×2	14000+16000×2	82	70	45	Φ19.05	Φ41.3	Φ9.52	128.3	160	285+385×2
GMV-1630WM/B-X		163	183	47.65	48.9	(1340×765×1605) +(1340×765×1740) ×2	14000+16000×2	82	70	45	Φ19.05	Φ41.3	Φ9.52	132.4	160	360+385×2
GMV-1685WM/B-X		168	188	49.65	50.8	(1340×765×1605) +(1340×765×1740) ×2	14000+16000×2	82	70	45	Φ19.05	Φ41.3	Φ9.52	136.8	160	360+385×2
GMV-1750WM/B-X		173.4	194.5	51.2	51.9	(1340×765×1740) ×3	16000×3	82	70	45	Φ19.05	Φ41.3	Φ9.52	148.3	160	360+385×2
GMV-1800WM/B-X		179	201	53	54.4	(1340×765×1740) ×3	16000×3	82	71	45	Φ19.05	Φ41.3	Φ9.52	153.7	160	385×3
GMV-1845WM/B-X		184.5	207	55.5	56.7	(1340×765×1740) ×3	16000×3	82	71	45	Φ19.05	Φ41.3	Φ9.52	155.4	160	385×3
GMV-1908WM/B-X		190.5	213.5	54.15	55.8	(930×765×1605) +(1340×765×1605) +(1340×765×1740) ×2	11400+14000+16000×2	82	72	47	Φ22.2	Φ44.5	Φ9.52	156	160	225+360+385×2
GMV-1962WM/B-X		195.9	220	55.7	56.9	(930×765×1605) +(1340×765×1740) ×3	11400+16000×3	82	73	47	Φ22.2	Φ44.5	Φ9.52	167.5	200	225+360+385×2
GMV-2016WM/B-X		201.5	226.5	57.5	59.4	(930×765×1605) +(1340×765×1740) ×3	11400+16000×3	82	73	47	Φ22.2	Φ44.5	Φ9.52	172.9	200	225+385×3
GMV-2072WM/B-X		207	232.5	60	61.7	(930×765×1605) +(1340×765×1740) ×3	11400+16000×3	82	73	47	Φ22.2	Φ44.5	Φ9.52	174.6	200	225+385×3
GMV-2128WM/B-X		212.5	238.5	62.5	64	(930×765×1605) +(1340×765×1740) ×3	11400+16000×3	82	73	47	Φ22.2	Φ44.5	Φ9.52	176.3	200	225+385×3
GMV-2184WM/B-X		218	244.5	63.91	65.7	(1340×765×1605) +(1340×765×1740) ×3	14000+16000×3	82	74	47	Φ22.2	Φ44.5	Φ9.52	180.1	200	285+385×3
GMV-2240WM/B-X		224.5	252	66.15	67.8	(1340×765×1605) +(1340×765×1740) ×3	14000+16000×3	82	74	47	Φ22.2	Φ44.5	Φ9.52	184.2	200	360+385×3
GMV-2295WM/B-X		229.5	257	68.15	69.7	(1340×765×1605) +(1340×765×1740) ×3	14000+16000×3	82	74	47	Φ22.2	Φ44.5	Φ9.52	188.6	200	360+385×3
GMV-2350WM/B-X		234.9	263.5	69.7	70.8	(1340×765×1740) ×4	16000×4	82	75	47	Φ22.2	Φ44.5	Φ9.52	200.1	250	360+385×3
GMV-2405WM/B-X		240.5	270	71.5	73.3	(1340×765×1740) ×4	16000×4	82	75	47	Φ22.2	Φ44.5	Φ9.52	205.5	250	385×4
GMV-2460WM/B-X		246	276	74	75.6	(1340×765×1740) ×4	16000×4	82	75	47	Φ22.2	Φ44.5	Φ9.52	207.2	250	385×4

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INVERTER R410A

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 Reliablility
- Wide Operation Range: Cooling: -5℃~52℃; Heating: -20℃~24℃; Cooling and heating: -10℃~20℃
- 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	4.31	4.06	4.09	3.77	3.72
COP		W/W	4.72	4.32	4.31	4.17	4.00
IPLV	Cooling	kW/kW	/	/	/	/	/
Power Supply		V/Ph/Hz	380~415V-3Ph-50/60Hz				
Max. circuit/fuse current		A	16.3/20	20.9/25	24.7/32	28.8/40	33.2/40
Power comsumption	Cooling	kW	5.2	6.9	8.2	10.6	12.1
	Heating	kW	5.3	7.3	8.7	10.8	12.5
Maximum drive IDU NO.		unit	13	16	19	23	26
Refrigerant Charge volume		kg	6.2	7.1	9.6	11.1	11.6
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		Φ28.6
	Gas(High pressure)	mm	Φ15.9	Φ19.05	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

50/60Hz

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	65
Power supply		V/Ph/Hz	220-240V-1Ph-50/60Hz		
Power comsumption		W	8	44	80
Maximum drive IDU NO.		unit	1	4	8
Outdoor Unit Piping Connection	Liquid	mm	Φ9.52	Φ12.7	Φ15.9
	Gas(High pressure)	mm	Φ15.9	Φ22.2	Φ22.2
	Gas(Low pressure)	mm	Φ19.05	Φ28.6	Φ28.6
indoor Unit Piping Connection	Liquid	mm	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ15.9	Φ15.9	Φ15.9

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ODU Combination Lineup-GMV5 HR

Model	GMV-Q224WM/B-X（8HP）	GMV-Q280WM/B-X（10HP）	GMV-Q335WM/B-X（12HP）	GMV-Q400WM/B-X(14HP)	GMV-Q450WM/B-X(16HP)
GMV-Q224WM/B-X	⬢				
GMV-Q280WM/B-X		⬢			
GMV-Q335WM/B-X			⬢		
GMV-Q400WM/B-X				⬢	
GMV-Q450WM/B-X					⬢
GMV-Q504WM/B-X	⬢	⬢			
GMV-Q560WM/B-X		⬢⬢			
GMV-Q615WM/B-X		⬢	⬢		
GMV-Q680WM/B-X		⬢		⬢	
GMV-Q730WM/B-X		⬢			⬢
GMV-Q785WM/B-X			⬢		⬢
GMV-Q850WM/B-X				⬢	⬢
GMV-Q900WM/B-X					⬢⬢
GMV-Q960WM/B-X		⬢⬢		⬢	
GMV-Q1010WM/B-X		⬢⬢			⬢
GMV-Q1065WM/B-X		⬢	⬢		⬢
GMV-Q1130WM/B-X		⬢		⬢	⬢
GMV-Q1180WM/B-X		⬢		⬢⬢	
GMV-Q1235WM/B-X			⬢		⬢⬢
GMV-Q1300WM/B-X				⬢	⬢⬢
GMV-Q1350WM/B-X					⬢⬢⬢
GMV-Q1410WM/B-X		⬢⬢		⬢	⬢
GMV-Q1460WM/B-X		⬢⬢			⬢⬢
GMV-Q1515WM/B-X		⬢		⬢⬢	⬢
GMV-Q1580WM/B-X		⬢		⬢	⬢⬢
GMV-Q1630WM/B-X		⬢			⬢⬢⬢
GMV-Q1685WM/B-X				⬢⬢	⬢⬢
GMV-Q1750WM/B-X				⬢	⬢⬢⬢
GMV-Q1800WM/B-X					⬢⬢⬢⬢

Specification of ODU Combination of GMV5 HR

Model	Power Supply	Capacity		Power Input		Dimension (W×D×H)	Airflow Volume	ESP	Sound Pressure Level	Operation sound pressure level at night	Connecting pipe diameter			Min.circuit current	Max. fuse current	Weight
		Cooling	Heating	Cooling	Heating						Liquid	HP Gas	LP Gas			
		kW	kW	kW	kW	mm	m³/h	Pa	dB(A)	dB(A)	mm	mm	mm	A	A	kg
GMV-Q224WM/B-X	380-415V 50/60Hz	22.40	25.00	5.20	5.30	930×765×1605	11400	82	60	40	Φ9.52	Φ15.9	Φ19.05	16.3	20	233.0
GMV-Q280WM/B-X		28.00	31.50	6.90	7.30	930×765×1605	11400	82	61	40	Φ9.52	Φ19.05	Φ22.2	20.9	25	233.0
GMV-Q335WM/B-X		33.50	37.50	8.20	8.70	1340×765×1605	14000	82	63	40	Φ12.7	Φ19.05	Φ25.4	24.7	32	302.0
GMV-Q400WM/B-X		40.00	45.00	10.60	10.80	1340×765×1605	14000	82	63	40	Φ12.7	Φ22.2	Φ25.4	28.8	40	346.0
GMV-Q450WM/B-X		45.00	50.00	12.10	12.50	1340×765×1605	14000	82	63	40	Φ12.7	Φ22.2	Φ28.6	33.2	40	346.0
GMV-Q504WM/B-X		50.40	56.50	12.10	12.60	2×(930×765 ×1605)	22800	82	64	43	Φ15.9	Φ25.4	Φ28.6	36.6	40	466.0
GMV-Q560WM/B-X		56.00	62.50	13.80	14.60	2×(930×765 ×1605)	22800	82	64	43	Φ15.9	Φ25.4	Φ28.6	41.8	50	466.0
GMV-Q615WM/B-X		61.50	69.00	15.10	16.00	(930×765 ×1605)+ (1340×765×1605)	25400	82	65	43	Φ15.9	Φ25.4	Φ28.6	45.6	50	535.0
GMV-Q680WM/B-X		68.00	76.50	17.50	18.10	(930×765 ×1605)+ (1340×765×1605)	25400	82	65	43	Φ15.9	Φ25.4	Φ28.6	49.7	63	579.0
GMV-Q730WM/B-X		73.00	81.50	19.00	19.80	(930×765×1605)+ (1340×765×1605)	25400	82	65	43	Φ19.05	Φ28.6	Φ31.8	54.1	63	579.0
GMV-Q785WM/B-X		78.50	87.50	20.30	21.20	2×(1340×765×1605)	28000	82	66	43	Φ19.05	Φ28.6	Φ31.8	57.9	80	648.0
GMV-Q850WM/B-X		85.00	95.00	22.70	23.30	2×(1340×765×1605)	28000	82	66	43	Φ19.05	Φ28.6	Φ31.8	62	80	692.0
GMV-Q900WM/B-X		90.00	100.00	24.20	25.00	2×(1340×765×1605)	28000	82	66	43	Φ19.05	Φ28.6	Φ31.8	66.4	80	692.0
GMV-Q960WM/B-X		96.00	108.00	24.40	25.40	2×(930×765 ×1605) +(1340×765×1605)	36800	82	67	43	Φ19.05	Φ28.6	Φ31.8	70.6	80	812.0
GMV-Q1010WM/B-X		101.00	113.00	25.90	27.10	2×(930×765 ×1605) +(1340×765×1605)	36800	82	67	43	Φ19.05	Φ31.8	Φ38.1	75	80	812.0
GMV-Q1065WM/B-X		106.50	119.00	27.20	28.50	(930×765 ×1605)+2 ×(1340×765×1605)	39400	82	67	43	Φ19.05	Φ31.8	Φ38.1	78.8	100	881.0
GMV-Q1130WM/B-X		113.00	126.50	29.60	30.60	(930×765 ×1605)+2 ×(1340×765×1605)	39400	82	67	45	Φ19.05	Φ31.8	Φ38.1	82.9	100	925.0
GMV-Q1180WM/B-X		118.00	131.50	31.10	32.30	(930×765 ×1605)+2 ×(1340×765×1605)	39400	82	67	45	Φ19.05	Φ31.8	Φ38.1	87.3	100	925.0
GMV-Q1235WM/B-X		123.50	137.50	32.40	33.70	3×(1340×765×1605)	42000	82	68	45	Φ19.05	Φ31.8	Φ38.1	91.1	125	994.0
GMV-Q1300WM/B-X		130.00	145.00	34.80	35.80	3×(1340×765×1605)	42000	82	68	45	Φ19.05	Φ31.8	Φ38.1	95.2	125	1038.0
GMV-Q1350WM/B-X		135.00	150.00	36.30	37.50	3×(1340×765×1605)	42000	82	68	45	Φ19.05	Φ31.8	Φ38.1	99.6	125	1038.0
GMV-Q1410WM/B-X		141.00	158.00	36.50	37.90	2×(930×765×1605)+ 2×(1340×765×1605)	50800	82	69	45	Φ22.2	Φ38.1	Φ44.5	103.8	125	1158.0
GMV-Q1460WM/B-X		146.00	163.00	38.00	39.60	2×(930×765×1605)+ 2×(1340×765×1605)	50800	82	69	45	Φ22.2	Φ38.1	Φ44.5	108.2	125	1158.0
GMV-Q1515WM/B-X		151.50	169.00	39.30	41.00	(930×765 ×1605)+3 ×(1340×765×1605)	53400	82	69	45	Φ22.2	Φ38.1	Φ44.5	112	125	1227.0
GMV-Q1580WM/B-X		158.00	176.50	41.70	43.10	(930×765 ×1605)+3 ×(1340×765×1605)	53400	82	69	45	Φ22.2	Φ38.1	Φ44.5	116.1	125	1271.0
GMV-Q1630WM/B-X		163.00	181.50	43.20	44.80	(930×765 ×1605)+3 ×(1340×765×1605)	53400	82	69	45	Φ22.2	Φ38.1	Φ44.5	120.5	160	1271.0
GMV-Q1685WM/B-X		168.50	187.50	44.50	46.20	4×(1340×765×1605)	56000	82	70	45	Φ22.2	Φ38.1	Φ44.5	124.3	160	1340.0
GMV-Q1750WM/B-X		175.00	195.00	46.90	48.30	4×(1340×765×1605)	56000	82	70	47	Φ22.2	Φ38.1	Φ44.5	128.4	160	1384.0
GMV-Q1800WM/B-X		180.00	200.00	48.40	50.00	4×(1340×765×1605)	56000	82	70	47	Φ22.2	Φ38.1	Φ44.5	132.8	160	1384.0

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GMV5 Home

INVERTER R410A

GMV5 Home is a new generation of multi VRF system developed by Gree, integrating “central air conditioning + hot water + floor heating.

Outdoor Unit

Water Tank SXD200LC JW/C1--K*2

Hydro Box

Hot water converter*1

Golden fin condenser | Inner groove copper | Compact design | High efficiency | Wide voltage range | Easier maintainability

Iteml	Nominal operating condition(temperature)					
	Outdoor condition		Indoor condition		Water	
	DB(℃)	WB(℃)	DB(℃)	WB(℃)	Start(℃)	End(℃)
Cooling	35	24	27	19	/	/
Heating	7	6	20	15	/	/
Hot water	20	15	/	/	15	52

Operation range	Mode	Outdoor Condition(DB℃)
	Cooling	-5～50
	Heating	-15～24
	Water heating	-15～43
	Cooling and water heating	-5～43
	Heating and water heating	-15～24

Outdoor Unit

Model			GMV-S120WL/A-S	GMV-S140WL/A-S	GMV-S160WL/A-S	GMV-S224W/A-X	GMV-S280W/A-X
Capacity	Cooling	kW	12.1	14	16	22.40	28.00
	Heating	kW	14	16.5	18.5	25.00	31.50
ECOP		kW/kW	/	/	/	7.00	7.00
Power supply		V/Ph/Hz	220-240V~1Ph~50/60Hz	220-240V~1Ph~50/60Hz	220-240V~1Ph~50/60Hz	380～415V 3Ph 50/60Hz	380～415V 3Ph 50/60Hz
Refrigerant Charge volume		kg	5	5	5	10.50	11.00
Rated power input	Cooling	kW	3.05	3.98	4.85	5.35	7.70
	Heating	kW	3.3	4.1	4.67	5.80	7.60
	Water Heating	kW	3.3	3.8	4.2	5.00	5.20
Airflow volume		m^3/h	6000	6300	6600	14000.00	14000.00
		CFM	3531	3708	3884	8239.00	8239.00
Sound pressure level		dB(A)	55	56	58	57	58
Connecting pipe diameter	Gas	mm	Φ15.9	Φ15.9	Φ19.05	Φ19.05	Φ22.2
	Liquid	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas (high pressure)	mm	Φ12.7	Φ12.7	Φ12.7	Φ15.9	Φ15.9
Dimension (WxDxH)	Outline	mm	900x340x1345	900x340x1345	900x340x1345	1340x765x1605	1340x765x1605
	Package	mm	998x458x1515	998x458x1515	998x458x1515	1420x840x1775	1420x840x1775
Net weight/Gross weight		kg	113/123	113/123	113/123	295/310	295/310
Loading quantity	40' GP	set	57	57	57	16.00	16.00
	40' HQ	set	57	57	57	16.00	16.00

Water Tank

Model			SXVD200LCJ/A-K	SXVD300LCJ/A-K	SXVD350LCJ/A-K	SXVD400LCJ/A-K
Tank volume		L	200	300	350	400
Max. working pressure		Mpa	0.7	0.7	0.7	0.7
Auxiliary electrical heater power input		kW	3.0	3.0	3.0	3.0
Power supply		V-Ph-Hz	1Ph,220-240V,50Hz			
Dimension	Thickness(inner)	mm	1.5	1.5	1.5	1.5
	Thickness(external)	mm	50	45	45	45
	Outline diameter	mm	540	620	620	620
	Outline height	mm	1595	1620	1895	2125
	Package(WxDxH)	mm	625×1620×630	705×1645×710	705×2150×722	705×2150×722
Net/Gross weight		kg	68/77	82/92	96/122	106/134
Outer diameter	Circular pipe	mm	DN20	DN20	DN20	DN20
	Cold water pipe	mm	DN15	DN15	DN15	DN15
	Hot water pipe	mm	DN15	DN15	DN15	DN15
Loading quantity	40'GP/40'HQ	set	78/104	63/63	54/54	51/51

Model			SXVD200LCJ2/A-K	SXVD300LCJ2/A-K	SXVD350LCJ2/A-K	SXVD400LCJ2/A-K
Tank volume		L	200	300	350	400
Max. working pressure		Mpa	0.7	0.7	0.7	0.7
Auxiliary electrical heater power input		kW	3.0	3.0	3.0	3.0
Power supply		V-Ph-Hz	1Ph,220-240V,50Hz			
Dimension	Thickness(inner)	mm	1.5	1.5	1.5	1.5
	Thickness(external)	mm	50	45	45	45
	Outline diameter	mm	540	620	620	620
	Outline height	mm	1595	1620	1895	2125
	Package(WxDxH)	mm	625×1620×630	705×1645×710	705×1920×722	705×2150×722
Net/Gross weight		kg	71/80	87/97	100/126	110/139
Outer diameter	Circular pipe	mm	DN20	DN20	DN20	DN20
	Cold water pipe	mm	DN15	DN15	DN15	DN15
	Hot water pipe	mm	DN15	DN15	DN15	DN15
Loading quantity	40'GP/40'HQ	set	78/104	63/63	54/54	51/51

Hydro Box

Model				NRQD16G/A-S
Heating capacity			kW	4.5(3.6-16)
Dimension (W×D×H)		Outline	mm	500×919×328
		Package	mm	1155×605×385
Power supply			Ph/V/Hz	1Ph 220～240V 50/60Hz
Connecting pipe diameter	to ODU	Gas	mm	Φ15.9
		Liquid	mm	Φ9.52
		Gas(High Pressure)	mm	Φ12.7
	to water tank		mm	Φ25
Water pump		Type	—	PB-2.5/11-A
		Power input	kW	0.08-0.14
		Water flow	L/h	1700.00
			GPM	7.48
		Delivery lift	m	6.00
Net weight/Gross weight			kg	56/62
Loading quantity		40'GP/40'HQ	set	190/228

Hot Water Converter

Model				NRZ16G/A-S
Heating capacity			kW	4.5(2.8~5.6)
Dimension (W×D×H)		Outline	mm	370×135×485
		Package	mm	648×473×225
Power supply			Ph/V/Hz	1Ph 220～240V 50/60Hz
Connecting pipe diameter	to ODU	Gas	mm	Φ15.9
		Liquid	mm	Φ9.52
		Gas(high pressure)	mm	Φ12.7
Net/Gross Weight			kg	8.5/13.5
Loading quantity		40'GP	set	840/924

Water Tank

Model		SXD200LCJW/C1-K
Capacity	L	185
Power Supply for Electric Heater	-	220V-240V~50Hz
Input Power for Electric Heater	W	1500
Outline Dimensions(W x D x H)	mm	545×545×1919
Package Dimensions(W x D x H)	mm	2009×656×625
Water Tank Gross/Net Weight	kg	60/52
Outer Size of Connection Pipe	mm	Φ6, Φ9.52

Note：
* 1: The hot water converter is only matched with the outdoor unit model of GMV-S(120~160)WL/A-S.
* 2: The hot water converter is only matched with the water tank model of SXD200LCJW/C1-K.

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Specifications of Indoor Units (GMV5 Series and GMV5 Home)

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[2]	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				1229x775x290
	Package	mm	1348x597x283				1338x877x305
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	16.00	22.4	28.0
	Heating	kW	11.2	12.5	14.0	16.0	17.00	25.0	31.0
Power supply		V/Ph/Hz	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	2650	4000	4400
		CFM	1000/853/650	1000/853/650	1175/912/706	1175/1000/824	1560	2355	2590
Rated Current[2]	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				70/0~150	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	50/48/46	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	Φ20	Φ30	Φ30
	Thickness	mm	2.5	2.5	2.5	2.5	1.2	1.5	1.5
Dimension (WxDxH)	Outline	mm	1229x775x290				1340x750x350	1483×791×385	1686x870x450
	Package	mm	1338x877x305				1423x837x455	1578x883x472	1788x988x580
Net weight/Gross weight		kg	47/54	47/54	47/54	47/54	60/71	82/104	105/140
Loading	40' GP	set	128	128	128	128	110	52	52
	40' HQ	set	128	128	128	128	110	65	52

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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	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			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-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		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-ND22PL/B-T*	GMV-ND25PL/B-T*	GMV-ND28PL/B-T*	GMV-ND32PL/B-T*	GMV-ND36PL/B-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-ND40PL/B-T*	GMV-ND45PL/B-T*	GMV-ND50PL/B-T*	GMV-ND56PL/B-T*	GMV-ND63PL/B-T*	GMV-ND72PL/B-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				1010x450x200	1310x450x200
	Package	mm	1303x551x285				1303x551x285	1603x551x285
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.

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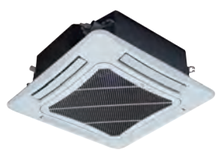
Cassette Type Indoor Unit

The cooling capacity of the cassette type units ranges from 2.2~16.0 kW, which can be widely appliedin 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-ND28T/A-T	GMV-ND36T/A-T	GMV-ND45T/A-T	GMV-ND50T/A-T	GMV-ND56T/A-T	GMV-ND63T/A-T	GMV-ND71T/A-T
Capacity		Cooling	kW	2.8	3.6	4.5	5.0	5.6	6.3	7.1
		Heating	kW	3.2	4.0	5.0	5.6	6.3	7.1	8.0
Power supply			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)			m^3/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[2]		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	38/36/33
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-ND90T/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	17.5
Power supply			V/Ph/Hz	220~240/1/50 & 208~230/1/60						
Power consumption			W	68	98	98	110	110	110	130
Airflow volume(H/M/L)			m^3/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[2]		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	47/44/42
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	910×910×293
		Package	mm	963x963x325	963x963x409	963x963x409	963x963x409	963x963x409	963x963x409	1023×993×375
	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)			m^3/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[2]		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	773×733×300	773×733×300	773×733×300	773×733×300	773×733×300	773×733×300
	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	670×670×50	670×670×50	670×670×50	670×670×50	670×670×50	670×670×50
		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-ND28TS/A-T	GMV-ND36TS/A-T	GMV-ND45TS/A-T	GMV-ND50TS/A-T	GMV-ND56TS/A-T	GMV-ND63TS/A-T	GMV-ND71TS/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)			m^3/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[2]		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	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	1523x658x430	1523x658x430	1523x658x430	1523x658x430	1523x658x430	1523x658x430	1523x658x430
	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	1578x768x120	1578x768x120	1578x768x120	1578x768x120	1578x768x120	1578x768x120	1578x768x120
	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	90	90	90	90	90	90	90
		40'HQ	set	105	105	105	105	105	105	105

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-ND50TD/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)			m^3/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[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	/	/	/	/	/
Sound pressure level(H/M/L)			dB(A)	36/32/28	36/32/28	36/32/28	40/35/30	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

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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 | Vercital swing | Anti-cold function | Quiet function | Compact design | Easier maintainability

50 Hz

Model			GMV-N22G/A3A-K *	GMV-N28G/A3A-K *	GMV-N36G/A3A-K *	GMV-N45G/A3A-K *	GMV-N50G/A3A-K *	GMV-N56G/A3A-K *	GMV-N63G/A3A-K *	GMV-N71G/A3A-K *
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.0	5.6	6.3	7.1
	Heating	kW	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	0.31
	Heating	A	0.2	0.2	0.31	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	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ9.52	Φ9.52	Φ12.7	Φ12.7	Φ12.7	Φ15.9	Φ15.9	Φ15.9
Drain pipe	External dia.	mm	Φ20	Φ20	Φ20	Φ20	Φ20	Φ30	Φ30	Φ30
	Thickness	mm	1.5	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			1128x395x313		
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
Loading	40' GP	set	702	702	557	557	557	441	441	441
	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	12.5	14.0
	Heating	kW	3.2	4.0	5.6	7.1	8.0	10.0	12.5	14.0	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	0.95
	Heating	A	0.2	0.2	0.25	0.38	0.38	0.7	0.95	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	Φ9.52
	Gas	mm	Φ9.52	Φ12.7	Φ12.7	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9
Drain pipe	External dia.	mm	Φ17	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	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
Loading	40' GP	set	145	145	145	90	90	90	84	84	84
	40' HQ	set	158	158	158	98	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-ND36C/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	280-680/600/500	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	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	28	28	28	28	28
	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
Loading	40' GP	set	387	387	387	387	387
	40' HQ	set	433	433	433	433	433

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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-ND100L/A-T	GMV-ND140L/A-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	200	200
Airflow volume(H/M/L)		m^3/h	1850/1600/1400	1850/1600/1400
		CFM	1089/942/824	1089/942/824
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	9.52	9.52
	Gas	mm	15.9	15.9
Drain pipe	External dia.	mm	31	31
	Thickness	mm	4.5	4.5
Dimension (WxDxH)	Outline	mm	1870x580x400	
	Package	mm	2083x738x545	
Net weight/Gross weight		kg	54/74	57/77
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

50/60Hz

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 *	GMV-NDX224P/A-T*	GMV-NDX280P/A-T*
Capacity	Cooling	kW	14.0	22.4	28.0	28.0	4.5	22.4	28.0
	Heating	kW	10.0	16.0	20.0	20.0	3.2	16.0	20.0
Power supply		V/Ph/Hz	220~240/1/50	380~415/3/50				220-240V/1/50Hz& 208-230/1/60Hz	
Power consumption		W	360	740	760	1060	1240	760	860
Airflow volume(H/M/L)		m^3/h	1200	2000	2500	3000	4000	2000/2000~3500	2500/2000~3500
		CFM	705	1175	1470	1765	2355	1177/1177~2060	1471/1177~2060
Rated Current[2]	Cooling	A	1.82	1.32	1.36	1.89	2.22	4.3	4.9
	Heating	A	1.82	1.32	1.36	1.89	2.22	4.3	4.9
	Water Heating	A	/	/	/	/	/	/	/
ESP		Pa	150	200				200/50~270	200/50~280
Sound pressure level(H/M/L)		dB(A)	42	47	48	51	58	50	51
Connecting pipe diameter	Liquid	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ12.7	Φ9.52	Φ9.52
	Gas	mm	Φ15.9	Φ19.05	Φ22.2	Φ22.2	Φ28.6	Φ19.05	Φ22.2
Drain pipe	External dia.	mm	25	25	25	25	25	Φ30	Φ30
	Thickness	mm	2.5	2.5	2.5	2.5	2.5	1.5	1.5
Dimension (WxDxH)	Outline	mm	1463x756x300	1500x1000x500			1700x1100x650	1483×791×385	1483×791×385
	Package	mm	1514x785x360	1840x1200x673			1890x1460x835	1578×883×472	1578×883×472
Net weight/Gross weight		kg	63.5/71	130/182	134/188	134/188	208/266	82/104	82/104
Loading	40' GP	set	84.0	18.0	18.0	18.0	16.0	65	65
	40' HQ	set	98.0	18.0	18.0	18.0	16.0	65	65

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

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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

- 4 models in a range of 350~1000m³/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
Air flow Volume	H/M/L	m^3/h	350/260/210	500/380/300	800/600/480	1000/750/600
ESP	H/M/L	Pa	100/80/60	100/80/60	110/85/65	110/85/65
Temperature exchange efficiency	H/M/L	%	71/73/75	68/70/72	70/72/74	73/77/79
Enthalpy exchange efficiency (H/M/L)	Heating	%	65/67/68	62/64/65	63/65/67	66/68/70
	Cooling	%	61/63/65	57/59/61	60/62/64	62/64/65
Power supply		Ph/V/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Power input		W	165	262	400	440
Power input		dB(A)	37	39	45	46
Dimension (W×D×H)	Outline	mm	800×879×306	800×879×306	832×1016×380	832×1016×380
	Package	mm	1050×1165×315	1050×1165×315	1087×1320×400	1087×1320×400
Net weight		kg	45	45	57	57
Gross weight		kg	53	53	66.5	66.5
Loading quantity	40'GP	set	147	147	85	59
	40'HQ	set	168	168	104	67
Standard wired remote controller			Z5N15	Z5N15	Z5N15	Z5N15

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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	ERV
Wireless Controller		YAP1F		●	○	○	●	●	●	●	
		YV1L1		○	○	○	○	○	○	○	
Wired controller		XK46		○	●	●	○	○	○	○	
		XK49		○	○	○	○	○	○	○	
		XK55		○	○	○	○	○	○	○	
		Z5N151									●
		JS05(receiver)			○	○					
E-smart Zone Controller		CE54-24/F(C)		○	○	○	○	○	○	○	○
Smart Zone Controller		CE52-24/F(C)		○	○	○	○	○	○	○	
Centralized Controller		CE53-24/F(C)		○	○	○	○	○	○	○	
Long-distance monitoring software		FE31-00/AD(BM)		○	○	○	○	○	○	○	
BMS Accessories	Commmunication module(modbus)	ME30-24/E4(M)		○	○	○	○	○	○	○	
	GMV BACnet gateway (BACnet)	MG30-24/D2(B)		○	○	○	○	○	○	○	
	Interface of the main board	BMS									●
Other modules	Optoelectronic isolated converter	RS232-RS422\485		○	○	○	○	○	○	○	○
	Optoelectronic isolated signal multiplier	RS-422\485		○	○	○	○	○	○	○	○

Note: ● means standard, ○ means optional.

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AIR TO WATER

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

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AIR TO WATER

R410A

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.

8~10kW

12~14kW

200/300L

Wired controller
Z263M/Z263L

Floor Heating Debugging | High efficiency | Quiet function | Self-diagnosis | Wide voltage range | Comprehensive protection | Compact design

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

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

Outdoor Unit

Model			GRS-CQ8.0Pd/NaD-K(O)	GRS-CQ10Pd/NaD-K(O)	GRS-CQ12Pd/NaD-M(O)	GRS-CQ14Pd/NaD-M(O)
Power Supply		V/Ph/Hz	230/1/50	230/1/50	400/3/50	400/3/50
Capacity*1	Cooling*3	kW	8.6	9.8	13.6	14.2
	Heating*4	kW	8.2	9.5	13.1	14.2
Power Input*1	Cooling*3	kW	2	2.5	3.44	3.7
	Heating*4	kW	1.82	2.2	2.87	3.35
EER/COP*1		W/W	4.3/4.51	3.92/4.32	3.95/4.56	3.9/4.25
Capacity*2	Cooling*5	kW	6.2	7.4	9.6	10.3
	Heating*6	kW	7.8	9.5	12.5	13.0
Power Input*2	Cooling*5	kW	1.9	2.38	3.0	3.3
	Heating*6	kW	2.3	2.69	3.35	3.6
EER/COP*2		W/W	3.26/3.39	3.11/3.53	3.18/3.73	3.15/3.65
Refrigerant charge volume		kg	3.5	3.5	5.3	5.5
Sanitary water Temperature		℃	40~80	40~80	40~80	40~80
Sound Pressure Level	cooling	dB(A)	53	53	56	57
	heating	dB(A)	53	53	56	55
Connecting pipe	Gas	inch(mm)	15.9	15.9	15.9	15.9
	Liquid	inch(mm)	9.52	9.52	9.52	9.52
Dimensions(W×D×H)	Outline	mm	980x790x360	980x790x360	900x1345x412	900x1345x412
	Packaged	mm	1097x862x477	1097x862x477	998x1515x458	998x1515x458
Net weight/Gross weight		kg	80/85	80/85	106/118	106/118
Loading quantity	40'GP	-	96	96	50	50
	40'HQ	-	96	96	50	50

Note:
1.Capacites and power inputs are based on the following conditions:
Cooling conditions.
Indoor Water Temperature 23℃/18℃.
Outdoor Air Temperature 35℃DB/24℃WB.
• Heating conditions.
• Indoor Water Temperature 30℃/35℃.
• Outdoor Air Temperature 7℃DB/6℃WB.
• Standing piping length 7.5m.
•
3、For floor cooling.
4、For floor heating.
5. For fan coil unit.
6. For fan coil or radiator.

2.Capacites and power inputs are based on the following conditions:
• Cooling conditions.
• Indoor Water Temperature 12℃/7℃.
• Outdoor Air Temperature 35℃DB/24℃WB.
• Heating conditions.
• Indoor Water Temperature 40℃/45℃.
• Outdoor Air Temperature 7℃DB/6℃WB.
• Standing piping length 7.5m.

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Indoor Hydro Unit

Model	Indoor unit		GRS-CQ8.0Pd/NaD-K(I)	GRS-CQ10Pd/NaD-K(I)	GRS-CQ12Pd/NaD-M(I)	GRS-CQ14Pd/NaD-M(I)
Power Supply		V/Ph/Hz	230/1/50	230/1/50	400/3/50	400/3/50
Norminal input		W	6140	6140	6140	6140
Leaving water temperature	Cooling*1	℃	7	7	7	7
	Cooling*2	℃	18	18	18	18
	Heating*1	℃	35	35	35	35
	Heating*2	℃	45	45	45	45
Pump	Type	-	PB-2.5/11-A	PB-2.5/11-A	PB-2.5/11-A	PB-2.5/11-A
	Nr. of speed	-	variable-speed	variable-speed	variable-speed	variable-speed
	Power input	W	140	140	140	140
	Water flow limit	LPM	10.5	10.5	10.5	10.5
Electric Heater	Operation	-	-	-	-	-
	Steps	-	2	2	2	2
	Capacity	kW	3	3	3	3
	Combination	kW	6	6	6	6
	Power input	Ph/V/Hz	230/1/50	230/1/50	400/3/50	400/3/50
Sound pressure level		dB(A)	31	31	31	31
Connecting pipe	Gas	inch(mm)	15.9	15.9	15.9	15.9
	Liquid	inch(mm)	9.52	9.52	9.52	9.52
Dimensions (W×D×H)	Outline	mm	900x324x500	900x324x500	900x324x500	900x324x500
	Packaged	mm	1043x395x608	1043x395x608	1043x395x608	1043x395x608
Net weight/Gross weight		kg	57.5/67	57.5/67	57.5/67	57.5/67
Loading quantity	40'GP	-	205	205	205	205
	40'HQ	-	246	246	246	246

Note:
*1 for fan coil unit; *2for 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)	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)	φ1/2''Female BSP(12.7)
Dimension	Outline	Diameter×H	mm	φ540×1595	φ540×1595	φ620×1620	φ620×1620
	Packaged	W×D×H	mm	1623x628x630	1623x628x630	1648x708x725	1648x708x725
Net weight/Gross weight			kg	68/77	71/80	82/92	87/97
Loading quantity		40'GP/40'HQ	set	75/100	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)	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)	φ1/2''Female BSP(12.7)
Dimension	Outline	Diameter×H	mm	φ540×1595	φ540×1595	φ620×1620	φ620×1620
	Packaged	W×D×H	mm	1620×625×630	1620×625×630	1645×705×710	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	75/100	63/63	63/63

R410A

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

200/300L

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.

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

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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	6.2	7.4	9.55	10.3
	Heating*6	kW	7.8	9.5	12.5	13
Power Input*2	Cooling*5	kW	1.9	2.38	3.0	3.3
	Heating*6	kW	2.3	2.69	3.35	3.6
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		℃	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 (W×D×H)	Outline	mm	1390x890x420	1390x890x420	1350x1438x381	1350x1438x381
	Packaged	mm	1463x1005x438	1463x1005x438	1428x1465x418	1428x1465x418
Net weight/Gross weight		kg	148/161	148/161	205/220	205/220
Loading quantity	40'GP	-	80	80	43	43
	40'HQ	-	80	80	43	43

Note:

1.Capacites and power inputs are based on the following conditions:
- Cooling conditions.
- Indoor Water Temperature 23℃/18℃.
- Outdoor Air Temperature 35℃DB/24℃WB.
- Heating conditions.
- Indoor Water Temperature 30℃/35℃.
- Outdoor Air Temperature 7℃DB/6℃WB.
- Standing piping length 7.5m.

2.Capacites and power inputs are based on the following conditions:
- Cooling conditions.
- Indoor Water Temperature 12℃/7℃.
- Outdoor Air Temperature 35℃DB/24℃WB.
- Heating conditions.
- Indoor Water Temperature 40℃/45℃.
- Outdoor Air Temperature 7℃DB/6℃WB.
- Standing piping length 7.5m.

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

R134a

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 | ℃/℉ switch | Compact design | Clock display | Intelligent defrosting | Easier maintainability | Child lock

- 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 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

Rated Heating Capacity(1)	W	2800
Rated Input Power(1)	W	700
Load Profile	-	L
COP(2)	W/W	2.9
Energy Efficiency Class(3)	-	A
Water Heating Energy Efficiency(3)	-	110%
Annual Electricity Consumption (Average climate conditions)	kWh	878
Maximum Input Power	W	1180+1500W (Electric Heater)
Outlet Water Temperature	°C	Default: 55°C, 35°C~70°C
Power Supply	-	220V-240V ~50Hz
Insulation Level	-	I
Protection of Ingression	-	IPX4
Refrigerant Name		R134a
Refrigerant Charge	kg	1.2
Outline Dimensions W x D x H	mm	848×320×540
Package Dimensions W x D x H	mm	881×363×595
Gross/Net Weight	kg	41/35.5
Sound Power Level(3)	dB(A)	61
Operating Range	°C	-7~45°C

Notes:

① Value obtained with the following conditions: Outdoor temperature: 20°C DB/15°C WB; Water tank temperature (start/end): 15°C /55°C.

② Value obtained with an air temperature of 7°C and a water inlet at 10℃, as per EN16147, (EU) No 814/2013.

③ Value obtained as per EN 12102-2008.

④ Please always see the nameplate for the exact data as this table is subject to change.

Water Tank

Model		SXD200LCJW/C1-K
Capacity	L	185
Power Supply for Electric Heater	-	220V-240V~50Hz
Input Power for Electric Heater	W	1500
Outline Dimensions(W x D x H)	mm	545 x 545 x 1919
Package Dimensions(W x D x H)	mm	2009 x 656 x 625
Water Tank Gross/Net Weight	kg	60/52
Outer Size of Connection Pipe	mm	Φ6, Φ9.52

Notes: Please always see the nameplate for the exact data as this table is subject to change.

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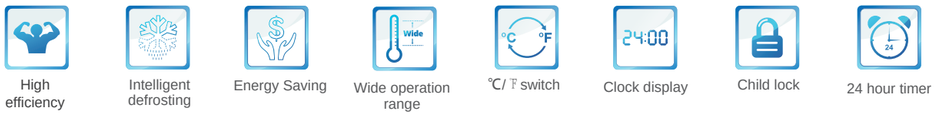
Integral Type Water Heater

The unit is with new integrated structure, concise design, and centrifugal type wind system design, which can connect air inlet pipe and air outlet pipe. The rated heating capacity for the unit is 2.4KW, equipped with 270L water tank, high-efficiency and energy-saving. This unit is applicable for garage, storage room, balcony and other household locations.

Controller XK64



High efficiency | Intelligent defrosting | Energy Saving | Wide operation range | ℃/ ℉ switch | Clock display | Child lock | 24 hour timer

- 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 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 ingarage, 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.

Model			GRS-2.4/D270ANbA-K
Rated Heating Capacity (1)		W	2400
Rated Input Power (1)		W	685
Capacity		L	270
Load Profile		-	XL
COP(2)		W/W	2.58
Energy Efficiency Class(2)		-	A
Water Heating Energy Efficiency(2)		-	105%
Annual electricity consumption (average climate conditions)		kWh	1594
Maximum Input Power		W	1300+1500W (Electric Heater)0.79
Outlet Water Temperature		°C	Default: 55°C, 35°C~70°C
Power Supply		-	220V-240V ~50Hz
Insulation Level		-	I
Protection of Ingression		-	I PX4
Refrigerant	Name		R134a
	Charge	kg	1.1
Outline Dimensions	W×D×H	mm	660×667×1958
Package Dimensions	W×D×H	mm	813×813×2100
Gross/Net Weight		kg	See the nameplate
Sound Power Level(2)		dB(A)	62
Operating Range		°C	-7~45

Notes:

① Value obtained with the following conditions: Outdoor temperature: 20°C DB/15°C WB; Water tank temperature (start/end): 15°C /55°C.
② Value obtained with an air temperature of 7°C and a water inlet at 10℃, as per EN16147, (EU) No 814/2013.
③ Value obtained as per EN 12102-2008.
④ Please always see the nameplate for the exact data as this table is subject to change.

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R410A

Ultra Series

Ultra series water heat including direct and circulating types, which is capable of operation in ambient temperature from -26℃ to 46℃ with the maximum tank water temperature of 60℃. It is with multiple protection functions and intelligent management functions to ensure safety, reliable and energy-saving operation of unit.

Wired controller Z26301K

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

GRS-Dm40/NaA-M

GRS-Cm28/NaA-M
GRS-Cm36/NaA-M

GRS-Cm53/NaA-M

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

- Grounding protection: The system is with multiple grounding protection to avoid electric leakage.
- 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.
- Auto protection when the system pressure is low.
- High discharge 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 the reliability 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.

Direct Heating Type

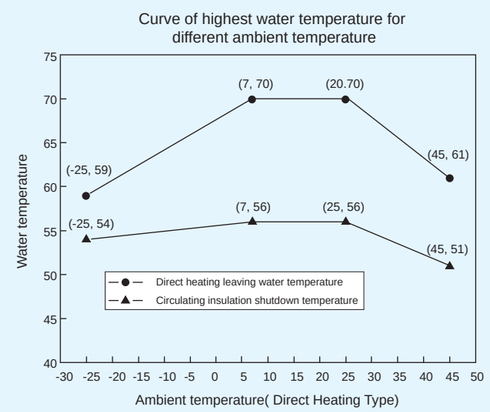
Model			GRS-Dm30/NaA-M	GRS-Dm40/NaA-M	GRS-Dm60/NaA-M
Rated water heating capacity		kW	31	40	60
Rated water supply		l/h	667	860	1300
COP		W/W	3.83	4	4
Water temperature range		℃	35～70	35～70	35～70
Power supply		Ph/V/Hz	3/380-415/50	3/380-415/50	3/380-415/50
Rated power input	Water heating	kW	8.1	10	15
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	1420×880×1775
Net weight/Gross weight		kg	238/252	264/286	362/378
Loading quantity	40'GP/40'HQ	set	26/26	26/26	21/21

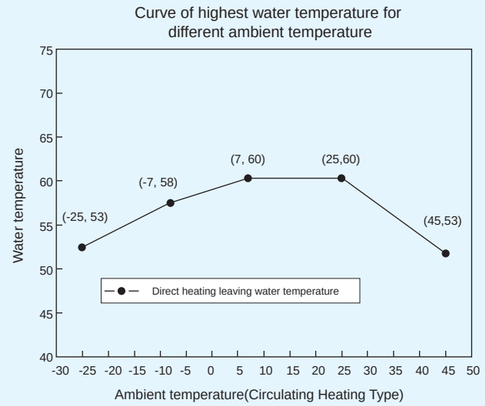
Circulating Heating Type

Model			GRS-Cm28/NaA-M	GRS-Dm40/NaA-M	GRS-Dm60/NaA-M
Rated water heating capacity		kW	28	36	53
Rated water supply		l/h	620	775	1140
COP		W/W	3.8	3.87	4.08
Water temperature range		℃	30～60	30～60	30～60
Power supply		Ph/V/Hz	3/380~415/50	3/380~415/50	3/380~415/50
Rated power input	Water heating	kW	7.3	9.3	13
Max power input	Water heating	kW	10.1	13.2	19
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	1420×880×1775
Net weight/Gross weight		kg	243/260	260/277	358/376
Loading quantity	40'GP/40'HQ	set	26/26	26/26	21/21

Note:

1. Testing conditions of above data: Ambient temperature 20℃ DB/15℃ WB; entering/leaving water temperature: 15℃/55℃; power supply: 3/380/50Hz;
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.





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SCROLL CHILLER

Inverter Mini Chiller
Modular Air-cooled Scroll Chiller

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R410A

Inverter Mini Chiller

Inverter mini chiller , is a king of small-size air-cooled chiller that canbe connectd to all sorts of fan coil unit to realize cooling ang heating. It can be used on the temperature range of -20~48℃.

8-10kW

12-14kW

Wired controller Z263P

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(℃)	Outlet(℃)	Outlet(℃)	I/O difference(℃)	DB(℃)	WB(℃)	DB(℃)
Cooling	12	7	7~25	2~10	35	24	10~48
Heating	40	45	25~60	2~10	7	6	-20~35

Model	Heat Pump		HLR8Na-K	HLR10Na-K	HLR12Na-M	HLR14Na-M
Capacity	Cooling	kW	6.20	7.50	9.50	11.00
	Heating	kW	8	10	12	14
EER/COP		W/W	3.1/3.5	3.1/3.4	3.2/3.7	3.1/3.4
Power Supply		V/Ph/Hz	220~240/1/50		380~415/3/50	
Power input	Cooling	kW	2	2.4	2.97	3.55
	Heating	kW	2.25	2.9	3.24	4.12
Compressor	Type	-	Rotary	Rotary	Rotary	Rotary
	Quantity	-	1	1	1	1
Refrigerant Charge volume		kg	3.5	3.5	4.0	4.0
Water flow volume		l/s	1.25	1.25	1.25	1.25
		GPM	16.515	16.515	16.515	16.515
Build-in chilled	pump power input	kW	0.14	0.14	0.14	0.14
	Delivery lift	m	11	11	11	11
Build-in expansion verssle volume		L	10	10	10	10
Chilled water outlet/inlet screw thread spec		inch	1	1	1	1
Sound Pressure level		Db(A)	53	55	54	54
Dimension(W*D*H)	Outling	mm	1390x412x890	1390x412x890	1354x365x1365	1354x365x1365
	Package	mm	1496x435x900	1496x435x900	1425x415x1450	1425x415x1450
Net weight/Gross weight		kg	140/155	140/155	194/209	194/209
Loading quantity 40'GP/40'HQ		set	80/80	80/80	43/43	43/43

R410A

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

65/80kW

130/160kW

Display panel Z26301C

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.

Item	Water side (water temperature)				Air side (outdoor temperature)		
	Nominal operating condition		Operating range		Nominal operating condition		Operating range
	Inlet(℃)	Outlet(℃)	Outlet(℃)	I/O difference(℃)	DB(℃)	WB(℃)	DB(℃)
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		LSQWRF65M/NaD-M	LSQWRF80M/NaD-M	LSQWRF130M/NaD-M	LSQWRF160M/NaD-M
Capacity	Cooling/Heating	kW	60/65	71/79.5	120/130	145/170
		RT	17.06/18.51	20.22/22.64	34.17/37.02	41.23/48.34
Capacity steps		%	0-50%-100%		0-25%-50%-75%-100%	
EER/COP		W/W	2.84/3.09	2.76/2.94	2.84/2.93	2.74/3.04
Power supply		V/Ph/Hz	380～415V-3Ph-50Hz			
Power input	Cooling	kW	21.1	25.7	42.3	53
	Heating	kW	21	27	44.4	56
Compressor	Type	—	Constant Speed Scroll			
	Starting mode	—	Direct Starting			
	Quantity	—	2	2	4	4
Water side heat exchanger	Type	—	High-efficient shell and tube heat exchanger			
	Water flow volume	L/s	2.87	3.39	5.73	6.92
		GPM	45	54	91	110
	Pressure drop	kPa	15	20	30	35
		ft.WG	4.92	6.56	9.84	11.48
	Connection pipe	—	DN65		DN80	
Air side heat exchanger	Type	—	Aluminum Fin-copper Tube			
	Fan type and quantity	—	Axial-flow/2	Axial-flow/2	Axial-flow/4	Axial-flow/4
	Total fan air flow	L/s	$2\times0.375\times10^4$	$2\times0.4167\times10^4$	$4\times0.375\times10^4$	$4\times0.4167\times10^4$
		CFM	$2\times0.795\times10^4$	$2\times0.882\times10^4$	$4\times0.795\times10^4$	$4\times0.882\times10^4$
	Total fan motor power	kW	2×0.650	2×0.950	4×0.650	4×0.950
Sound pressure level		dB(A)	70	71	72	74
Dimension	Outline(W×D×H)	mm	2040×1000×2230	2040×1000×2230	2226X1650X2230	2226X1650X2230
	Package(W×D×H)	mm	2120×1080×2230	2120×1080×2230	2306X1730X2230	2306X1730X2230
Net/Gross/Operating weight		kg	710/715	760/765	1256/1261	1440/1445
Loading quantity	40'GP/40'HQ	set	10	10	6	6

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SCREW CHILLER

Modular Air-cooled Screw Chiller
High-efficiency Modular Air-cooled Screw Chiller
Water-Cooled Screw Chiller

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SCREW CHILLER

R134a

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.

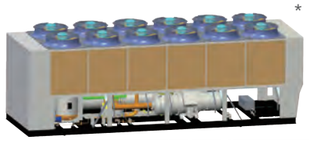
230kW

330kW

430kW

Display panel
Z2F3M

*



600/760kW

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

*: 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(℃)	Outlet(℃)	Outlet(℃)	I/O difference(℃)	DB(℃)	WB(℃)	DB(℃)
Cooling	12	7	5~15	2.5~8	35	—	18~52
Heatling	40	45	40~50	2.5~8	7	6	-15~24

Model	Cooling only		LSBLGF230MT3/NbA-M*1	LSBLGF330MT3/NbA-M*1	LSBLGF430MT3/NbA-M*1	LSBLGF600MT3/NbÄ-M	LSBLGF760MT3/NbA-M
Capacity	Cooling	kW	220	320	420	570	740
		TR	63	91	119	162	210
Capacity steps		%	25%,50%~100%	25%,50%~100%	25%,50%~100%	12.5%,25%~100%	12.5%,25%~100%
EER		W/W	2.72	2.67	2.80	2.65	3.06
Power supply		Ph/V/Hz	3/380/50	3/380/50	3/380/50	3/380/50	3/380/50
Power input	Cooling	kW	81	120	150	215	242
Compressor	Type	-	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
	Quantity	-	1	1	1	2	2
Water side heat exchanger	Type	-	Dry Expansion Evaporator	Dry Expansion Evaporator	Dry Expansion Evaporator	Dry Expansion Evaporator	Dry Expansion Evaporator
	Water flow volume	m3/h	37.8	55.0	72.2	98.0	127.3
		GPM	167	242	318	432	560
	Pressure drop	kPa	≤ 50	≤ 50	≤ 50	≤ 65	≤ 65
		ft.WG	≤ 16.7	≤ 16.7	≤ 16.7	≤ 21.8	≤ 21.8
	Connection pipe	-	DN100	DN100	DN125	DN150	DN150
Air side heat exchanger	Type	-	flange connection	flange connection	flange connection	flange connection	flange connection
	Fan type and quantity	-	Aluminum Fin-copper Tube	Aluminum Fin-copper Tube	Aluminum Fin-copper Tube	Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
	Total fan air flow	m3/h	20000×6	20000×8	20000×10	22000×12	22000×12
		CFM	11772×6	11772×8	11772×10	12949×12	12949×12
	Total fan motor power	kW	1.5×6	1.5×8	1.5×10	2.2×12	2.2×12
Sound pressure	level	dB(A)	78	79	80	82	82
Dimension	Outline(WxDxH)	mm	4000×2250×2550	5000×2250×2550	6000×2250×2550	7540×2250×2550	7540×2250×2550
	Package(WxDxH)	mm	4080×2330×2550	5080×2330×2550	6080×2330×2550	7620×2330×2550	7620×2330×2550
Net/Gross/ Operting Weight	Cooling only	kg	3770/3810/4147	4970/5010/5467	5600/5640/6160	8080/8120/8888	8600/8640/9460
Loadingquantity	40'GP/40'HQ	set	0/2	0/2	0/1	0/1	0/1

Model	Heat pump		LSBLGRF230MT3/NbA-M*1	LSBLGRF330MT3/NbA-M*1	LSBLGRF430MT3/NbA-M*1	LSBLGRF600MT3/NbA-M	LSBLGRF760MT3/NbA-M
Capacity	Cooling	kW	220	320	420	580	740
		TR	63	91	119	165	210
	Heating	kW	245	355	450	585	745
		TR	70	101	128	166	212
Capacity steps		%	25%,50%~100%	25%,50%~100%	25%,50%~100%	12.5%，25~100%	12.5%，25~100%
EER/COP		W/W	2.72/2.88	2.67/2.91	2.66/2.92	3.05/3.07	3.06/3.08
Power supply		Ph/V/Hz	3/380/50	3/380/50	3/380/50	3/380/50	3/380/50
Power input	Cooling	kW	81	120	158	190	242
	Heating	kW	85	122	154	190	242
Compressor	Type	-	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
	Quantity	-	1	1	1	2	2
Water side heat exchanger	Type	-	Dry Expansion Evaporator	Dry Expansion Evaporator	Dry Expansion Evaporator	Dry Expansion Evaporator	Dry Expansion Evaporator
	Water flow volume	m3/h	37.8	55.0	72.2	99.8	127.3
		GPM	167	242	318	439	560
	Pressure drop	kPa	≤50	≤50	≤50	≤65	≤65
		ft.WG	≤16.7	≤16.7	≤16.7	≤21.8	≤21.8
	Connection pipe	-	DN100	DN100	DN100	DN150	DN150
Air side heat exchanger	Type	-	flange connection	flange connection	flange connection	flange connection	flange connection
	Fan type and quantity	-	Aluminum Fin-copper Tube	Aluminum Fin-copper Tube	Aluminum Fin-copper Tube	Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
	Total fan air flow	m3/h	20000×6	20000×8	20000×10	22000×12	22000×12
		CFM	11772×6	11772×8	11772×10	12949×12	12949×12
	Total fan motor power	kW	1.5×6	1.5×8	1.5×10	2.2×12	2.2×12
Sound pressure level		dB(A)	78	79	80	82	82
Dimension	Outline(W×D×H)	mm	4000×2250×2550	5000×2250×2550	6000×2250×2550	7540×2250×2550	7540×2250×2550
	Package(W×D×H)	mm	4080×2330×2550	5080×2330×2550	6080×2330×2550	7620×2330×2550	7620×2330×2550
	Heat pump	kg	4020/4060/4422	5270/5310/5797	5950/5990/6545	8170/8210/8987	8700/8740/9570
Loading quantity	40'GP/40'HQ	set	0/2	0/2	0/1	0/1	0/1

Note: EER/COP Appliable Standard Eurovent
* Only available for heat pump model.
*1: This series are certified by Eurovent and AHRI.

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SCREW CHILLER

R134a

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.

320/420/520MH/NbA-M

580/650/750/860/950MH/NbA-M

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

Note:Photos are for reference only.

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

- 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(℃)	Outlet(℃)	Outlet(℃)	I/O difference(℃)	DB(℃)	WB(℃)	DB(℃)
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*	LSBLGF520 MH/NbA-M*	LSBLGF580 MH/NbA-M*	LSBLGF650 MH/NbA-M*	LSBLGF750 MH/NbA-M*
Capacity	Cooling	kW	320	420	520	580	650	750
		RT	91.0	119.4	147.9	164.9	184.8	213.3
Capacity steps		%	25%,50%~100%	25%,50%~100%	25%,50%~100%	12.5%,25%~100%	12.5%,25%~100%	12.5%,25%~100%
EER		W/W	3.20	3.23	3.21	3.22	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	162	180	200	230
Compressor	Type	—	Semi-hermetic screw					
	Starting mode	—	Star Delta Start					
	Quantity	—	1	1	1	2	2	2
Water side heat exchanger	Type	—	Flooded Evaporator	Flooded Evaporator	Flooded Evaporator	Flooded Evaporator	Flooded Evaporator	Flooded Evaporator
	Water flow volume	m^3/h	55.0	72.2	89.4	99.8	111.8	129.0
		GPM	242	318	394	439	492	568
	Pressure drop	kPa	≤45	≤45	≤45	≤50	≤50	≤55
		ft.WG	≤15.1	≤15.1	≤15.1	≤16.7	≤16.7	≤18.4
	Connection pipe	—	DN100	DN125	DN125	DN150	DN150	DN150
Air side heat exchanger	Type	—	Aluminum Fin-copper Tube					
	Total fan air flow	m^3/h	20000×6	20000×8	20000×10	20000×12	20000×12	20000×14
		CFM	11772×6	11772×8	11772×10	11772×12	11772×12	11772×14
	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)	73	74	74	75	75	75
Dimension	Outline(W×D×H)	mm	3670X2250X2550	4890X2250X2550	6110X2250X2550	7340X2250X2550	7340X2250X2550	8560X2250X2550
	Package(W×D×H)	mm	3850X2330X2550	4970X2330X2550	6190X2330X2550	7420X2250X2550	7420X2330X2550	8640X2330X2550
Net/Gross/Operating	Cooling only	kg	3650/3690/3723	4650/4690/4743	5550/5590/5661	6450/6490/6579	7440/7480/7589	8350/8390/8517
Loading quantity	40'GP/40'HQ	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%	6.25%,12.5%~100%	6.25%,12.5%~100%
EER		W/W	3.31	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	260	280	320	350	395	450
Compressor	Type	—	Semi-hermetic screw					
	Starting mode	—	Star Delta Start					
	Quantity	—	2	2	2	3	4	4
Water side heat exchanger	Type	—	Flooded Evaporator	Flooded Evaporator	Flooded Evaporator	Flooded Evaporator	Flooded Evaporator	Flooded Evaporator
	Water flow volume	m^3/h	147.9	163.4	180.6	199.5	227.0	261.4
		GPM	651	719	795	878	1000	1151
	Pressure drop	kPa	≤60	≤60	≤70	≤75	≤75	≤85
		ft.WG	≤20.1	≤20.1	≤23.4	≤25.1	≤25.1	≤28.4
	Connection pipe	—	DN150	DN150	DN200	DN200	DN200	DN200
Air side heat exchanger	Type	—	Aluminum Fin-copper Tube					
	Total fan air flow	m^3/h	20000×16	20000×18	20000×20	20000×22	20000×24	20000×28
		CFM	11772×16	11772×18	11772×20	11772×22	11772×24	11772×28
	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)	75	76	75	76	76	76
Dimension	Outline(W×D×H)	mm	9780X2250X2550	11000X2250X2550	12230X2250X2550	13450X2250X2550	14670X2250X2550	17120X2250X2550
	Package(W×D×H)	mm	9860X2330X2550	11080X2330X2550	12310X2330X2550	13530X2330X2550	14750X2330X2550	17200X2330X2550
Net/Gross/Operating	Cooling only	kg	9550/9590/9741	10280/10320/10485	11750/11830/11985	13000/13080/13260	14750/14830/15045	16950/17030/17289
Loading quantity	40'GP/40'HQ	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.
This series is certified by Eurovent and AHRI.

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SCREW CHILLER

R134a

Water-cooled Screw Chiller

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

Display panel
Z2G1DJ01

Comprehensive protection | Self-diagnosis | Memory function | Easier maintainability | 24 hour timer | Long-distance monitoring

- Precision water temperature control thanks to stepless capacity adjustment from 25%~100%.(single comp.) or 12.5%~100%(dual comp.).
- Higher heat exchange efficiency thanks to flooded evaporating method.
- Higher efficiency under partial load thanks to paralleling operation design.
- High reliability oil return technology to avoid compressor damage from oil lack.
- Precision and stable volume adjusting thanks to orifice plus EXV throttle method.
- Automatic operation and energy saving operation makes an easier management.

Operating condition of nominal cooling (water temperature)				Operating range (water temperature)			
Chilled water		Cooling water		Chilled water		Cooling water	
Inlet(℃)	Outlet(℃)	Inlet(℃)	Outlet(℃)	Outlet(℃)	I/O difference(℃)	Inlet(℃)	I/O difference(℃)
12	7	30	35	4~15	2.5~8	18~35	3.5~8

Model			LSBLG180H/Nb-M	LSBLG210H/Nb-M	LSBLG240H/Nb-M	LSBLG300H/Nb-M	LSBLG340H/Nb-M	LSBLG380H/Nb-M
Cooling capacity		kW	175	202	231	292	331	376
		RT	49.76	57.44	65.69	83.03	94.12	106.92
Capacity steps		%	25-100	25-100	25-100	25-100	25-100	25-100
EER		W/W	5.00	5.05	5.13	5.21	5.25	5.30
IPLV		W/W	5.87	5.71	5.80	5.91	6.02	5.94
Power supply		Ph/V/Hz	3/380/50	3/380/50	3/380/50	3/380/50	3/380/50	3/380/50
Power input		kW	35	40	45	56	63	71
RLA		A	68.4	77.2	77.2	102.5	117.9	117.9
Compressor	Type	—	Semi-hermetic twin screw comp.					
	Starting mode	—	Y-△					
	Quantity	—	1	1	1	1	1	1
Refrigerant charge volume		kg	100	100	100	110	120	130
Refrigeration oil	Type	—	BSE170	BSE170	BSE170	BSE170	BSE170	BSE170
	Charge volume	L	15	15	15	19	19	19
Evaporator	Type		Flooded Evaporator	Flooded Evaporator	Flooded Evaporator	Flooded Evaporator	Flooded Evaporator	Flooded Evaporator
	Fouling factor	$m^2 \cdot ^\circ c/kW$	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
		ft.WG	13.12	14.76	16.40	19.68	19.68	20.34
	Connection pipe	—	DN100	DN100	DN100	DN125	DN125	DN125
Condenser	Type	—	shell and tube	Shell and tube	Shell and tube	Shell and tube	Shell and tube	Shell and tube
	Fouling factor	$m^2 \cdot ^\circ c/kW$	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
		ft.WG	18.37	18.70	21.32	21.32	21.65	21.98
	Connection pipe	—	DN100	DN100	DN100	DN125	DN125	DN125
Sound pressure level		dB(A)	76.2	76.6	77.4	80.1	81.2	83.3
Outline dimension (WxDxH)		mm	3160×1150×1587	3160×1150×1587	3160×1150×1587	3160×1400×1680	3160×1400×1680	3160×1400×1720
Net/Gross/Operating weight		kg	1800/1850/1890	1900/1950/1995	2100/2150/2205	2800/2850/2940	2900/2950/3045	3100/3150/3255
Loading quantity	40'GP/40'HQ	set	3/3	3/3	3/3	3/3	3/3	3/3

Model			LSBLG450H/Nb-M	LSBLG500H/Nb-M	LSBLG580H/Nb-M	LSBLG640H/Nb-M	LSBLG680H/Nb-M	LSBLG760H/Nb-M
Cooling capacity		kW	442	495	572	636	676	752
		RT	125.69	140.76	162.65	180.85	192.23	213.84
Capacity steps		%	25-100	25-100	25-100	25-100	12.5-100	12.5-100
EER		W/W	5.33	5.32	5.35	5.30	5.37	5.30
IPLV		W/W	6.09	6.08	5.87	5.85	6.01	6.02
Power supply		Ph/V/Hz	3/380/50	3/380/50	3/380/50	3/380/50	3/380/50	3/380/50
Power input		kW	83	93	107	120	126	142
RLA		A	136.5	154.3	169.6	199.4	102.5	117.9
Compressor	Type	—	Semi-hermetic twin screw comp.					
	Starting mode	—	Y—△				Y-△	
	Quantity	—	1	1	1	1	2	2
Refrigerant charge volume		kg	210	210	210	200	240	422.27
Refrigeration oil	Type	—	BSE170	BSE170	BSE170	BSE170	BSE170	BSE170
	Charge volume	L	35	35	35	35	19	19
Evaporator	Type	—	Flooded Evaporator	Flooded Evaporator	Flooded Evaporator	Flooded Evaporator	Flooded Evaporator	Flooded Evaporator
	Fouling factor	$m^2 \cdot ^\circ c/kW$	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	76
		ft.WG	20.99	21.65	22.30	24.27	24.93	24.93
	Connection pipe	—	DN150	DN150	DN150	DN150	DN200	DN200
Condenser	Type	m^3/h	Shell and tube	Shell and tube	Shell and tube	Shell and tube	Shell and tube	Shell and tube
	Fouling factor	$m^2 \cdot ^\circ c/kW$	0.086	0.086	0.086	0.086	0.086	0.086
	Water flow volume		95	106	123	137	145	162
		GPM	419	467	542	604	639	714
	Pressure drop	kPa	69	71	72	73	76	77
		ft.WG	22.63	23.29	23.62	23.94	24.93	25.26
	Connection pipe	—	DN200	DN200	DN200	DN200	DN200	DN200
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	40'GP/40'HQ	set	3/3	3/3	3/3	3/3	3/3	3/3

Model			LSBLG880H/Nb-M	LSBLG1000H/Nb-M	LSBLG1160H/Nb-M	LSBLG1280H/Nb-M	LSBLG1400H/Nb-M
Cooling capacity		kW	871	990	1144	1275	1485
		RT	247.68	281.51	325.30	362.56	422.27
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	3/380/50	3/380/50	3/380/50	3/380/50	3/380/50
Power input		kW	163	186	214	227	265
RLA		A	136.5	154.3	169.6	199.4	234.1
Compressor	Type	—	Semi-hermetic twin screw comp.				
	Starting mode	—	Y—△				
	Quantity	—	2	2	2	2	2
Refrigerant charge volume		kg	350	350	350	350	450
Refrigeration oil	Type	—	BSE170	BSE170	BSE170	BSE170	HRB-B01
	Charge volume	L	35	35	35	35	23
Evaporator	Type	—	Flooded Evaporator	Flooded Evaporator	Flooded Evaporator	Flooded Evaporator	Flooded Evaporator
	Fouling factor	$m^2 \cdot ^\circ c/kW$	0.086	0.086	0.086	0.086	0.086
	Water flow volume	m^3/h	150	170	197	219	260
		GPM	661	750	869	966	1146
	Pressure drop	kPa	76	77	78	78	80
		ft.WG	24.93	25.26	25.58	25.58	26.24
	Connection pipe	—	DN200	DN200	DN200	DN200	DN200
Condenser	Type	—	Shell and tube	Shell and tube	Shell and tube	Shell and tube	Shell and tube
	Fouling factor	$m^2 \cdot ^\circ c/kW$	0.086	0.086	0.086	0.086	0.086
	Water flow volume	m^3/h	187	213	246	274	319
		GPM	825	939	1085	1208	1407
	Pressure drop	kPa	82	83	84	85	87
		ft.WG	26.90	27.22	27.55	27.88	28.54
	Connection pipe	—	DN250	DN250	DN250	DN250	DN250
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	4900x2020x2230
Net/Gross/Operating weight		kg	6200/6300/6510	6500/6650/6825	6800/6950/7140	7000/7150/7350	8940/9163/9340
Loading quantity	40'GP/40'HQ	set	3/3	3/3	3/3	3/3	3/3

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

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CENTRIFUGAL CHILLER

C Series Fixed-speed Centrifugal Chiller
CVE Series Permanent Magnet Synchronous Inverter Centrifugal
CC Series Magnetic Suspension Inverter Centrifugal

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CENTRIFUGAL CHILLER

R134a

C Series Fixed-speed Centrifugal Chiller

It is a kind of 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.

Operating condition of nominal cooling (water temperature)				Operating range (water temperature)			
Chilled water		Cooling water		Chilled water		Cooling water	
Inlet(℃)	Outlet(℃)	Inlet(℃)	Outlet(℃)	Outlet(℃)	I/O difference(℃)	Inlet(℃)	I/O difference(℃)
12.2	6.7	29.4	34.9	5~15	2.5~11	16~35	3.5~11

Single-stage

Model			LSBLX1400-M / LSBLX1400-G	LSBLX1600-M / LSBLX1600-G	LSBLX1800-M / LSBLX1800-G	LSBLX2000-M / LSBLX2000-G	LSBLX2200-M / LSBLX2200-G	LSBLX2400-M / 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	5.33	5.41	5.57	5.60	5.70	5.70
IPLV		W/W	6.02	6.11	6.29	6.35	6.45	6.44
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	263	296	323	357	386	421
RLA	-M	A	454.1	511.1	557.7	616.4	666.5	726.9
	-G	A	17.3	19.4	21.2	23.4	25.3	27.6
Compressor	Type	—	Semi-hermetic Centrifugal Compressor					
	Starting mode*	—	Star-delta					
	Quantity	—	1	1	1	1	1	1
Refrigerant charge volume		kg	330	360	600	625	650	700
Refrigeration oil	Type	—	No.68 synthetic fatty oil					
	Charge volume	L	50	50	60	60	60	80
Evaporator	Type	—	Flooded Shell and Tube					
	Fouling factor	$m^2 \cdot ^\circ c/kW$	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	mm	200	200	250	250	250	250
Condenser	Type	—	Shell and Tube					
	Fouling factor	$m^2 \cdot ^\circ c/kW$	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	mm	200	200	250	250	250	250
Sound pressure level (Max.)		dB(A)	≤88	≤88	≤88	≤90	≤90	≤90
Dimension	Outline(WxDxH)	mm	3630×1680×2060	3630×1680×2060	4150×1900×2250	4150×1900×2250	4150×1900×2250	4350×2070×2500
	Package(WxDxH)	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	0/2	0/0

Model			LSBLX2600-M / LSBLX2600-G	LSBLX2800-M / LSBLX2800-G	LSBLX3000-M / LSBLX3000-G	LSBLX3200-M / LSBLX3200-G	LSBLX3400-M / LSBLX3400-G	LSBLX3600-M / 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	5.76	5.79	5.70	5.75	5.80	5.66
IPLV		W/W	6.52	6.54	6.45	6.49	5.65	6.40
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	451	484	526	557	586	636
RLA	-M	A	778.7	835.7	908.2	961.7	1011.8	1098.1
	-G	A	29.6	31.8	34.5	36.5	38.4	41.7
Compressor	Type	—	Semi-hermetic Centrifugal Compressor					
	Starting mode*	—	Star-delta					
	Quantity	—	1	1	1	1	1	1
Refrigerant charge volume		kg	725	750	775	800	825	900
Refrigeration oil	Type	—	No.68 synthetic fatty oil					
	Charge volume	L	80	80	80	80	80	100
Evaporator	Type	—	Flooded Shell and Tube					
	Fouling factor	$m^2 \cdot ^\circ c/kW$	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	mm	250	250	300	300	300	300
Condenser	Type	—	Shell and Tube					
	Fouling factor	$m^2 \cdot ^\circ c/kW$	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	mm	250	250	300	300	300	350
Sound pressure level (Max.)		dB(A)	≤90	≤90	≤90	≤92	≤92	≤92
Dimension	Outline(WxDxH)	mm	4350×2070×2500	4350×2070×2500	4530×2070×2500	4530×2120×2500	4530×2120×2500	4750×2330×2750
	Package(WxDxH)	mm	4650×2110×2660	4650×2110×2660	4650×2160×2660	4650×2160×2660	4650×2160×2660	5000×2340×2910
Net/Gross/Operating weight		kg	11200/11400/13000	11600/11800/13200	11800/12000/13500	12000/12200/14000	12200/12400/14500	14600/14800/16500
Loading quantity	40'GP/40'HQ	set	0/0	0/0	0/0	0/0	0/0	0/0

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

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Model			LSBLX3800-M / LSBLX3800-G	LSBLX4000-M / LSBLX4000-G	LSBLX4400-M / LSBLX4400-G	– / LSBLX4800-G	– / LSBLX5200-G
Cooling capacity		kW	3800	4000	4400	4800	5200
		RT	1081	1136	1251	1364	1479
Capacity adjustment range		%	10-100	10-100	10-100	10-100	10-100
EER		W/W	5.70	5.78	5.72	5.78	5.87
IPLV		W/W	6.45	6.53	6.47	6.54	6.64
Power supply	-M	Ph/V/Hz	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
Power input		kW	667	692	769	830	886
RLA	-M	A	1151.6	1194.8	1327.7	——	——
	-G	A	43.8	45.4	50.5	54.5	58.1
Compressor	Type	—	Semi-hermetic Centrifugal Compressor				
	Starting mode*	—	star-delta				
	Quantity	—	1	1	1	1	1
Refrigerant charge volume		kg	925	950	1000	1050	1100
Refrigeration oil	Type	—	No.68 synthetic fatty oil				
	Charge volume	L	100	100	100	100	100
Evaporator	Type	—	Flooded Shell and Tube				
	Fouling factor	m^2·°c/kW	0.018	0.018	0.018	0.018	0.018
	Water flow volume	L/s	163.6	172.2	189.4	206.7	223.9
		GPM	2593	2730	3003	3276	3549
	Pressure drop	kPa	115	115	115	115	115
		ft.WG	38.5	38.5	38.5	38.5	38.5
	Connection pipe	mm	300	300	350	350	350
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	204.8	215.6	237.1	258.7	280.2
		GPM	3246	3417	3758	4100	4442
	Pressure drop	kPa	100	100	105	105	105
		ft.WG	33.5	33.5	35.2	35.2	35.2
	Connection pipe	mm	350	350	350	350	350
Sound pressure level (Max.)		dB(A)	≤92	≤92	≤92	≤95	≤95
Dimension	Outline(WxDxH)	mm	4750×2330×2750	4750×2330×2750	4750×2480×2750	4750×2480×2750	4750×2480×2750
	Package(WxDxH)	mm	5000×2340×2910	5000×2340×2910	5000×2490×2910	5000×2490×2910	5000×2490×2910
Net/Gross/Operating weight		kg	14800/15000/17000	15200/15400/17500	15800/16000/18000	16200/16400/18500	16600/16800/19000
Loading quantity	40'GP/40'HQ	set	0/0	0/0	0/0	0/0	0/0

Two-stage

Model			LSBLX5600S-G	LSBLX6000S-G	LSBLX6400S-G	LSBLX6800S-G	LSBLX7200S-G
Cooling capacity		kW	5600	6000	6400	6800	7200
		RT	1591	1706	1818	1934	2044
Capacity adjustment range		%	10-100				
EER		W/W	6.29	6.32	6.40	6.37	6.33
IPLV		W/W	7.10	7.13	7.22	7.20	7.15
Power supply		Ph/V/Hz	3Ph,10000V,50Hz				
Power input		kW	890	949	1000	1068	1137
RLA/LRA		A	58.4	62.3	65.6	70.1	74.6
Comperssor	Type	—	Semi-hermetic Centrifugal Compressor				
	Starting mode	—	Direct start				
	Quantity	—	1	1	1	1	1
Refrigerant charge volume		kg	1500	1600	1700	1800	1900
Refrigeration oil	Category	—	No.68 synthetic fatty oil				
	Charge volume	L	125	125	125	125	125
Evaporator	Type	—	Flooded Shell and Tube				
	Fouling factor	m^2·°c/kW	0.018	0.018	0.018	0.018	0.018
	Water flow volume	L/s	241.1	258.3	275.6	292.8	310.0
		GPM	3822	4095	4368	4641	4914
	Pressure drop	kPa	125	125	125	125	125
		ft.WG	41.0	41.0	41.0	41.0	41.0
	Connection pipe	mm	350	350	400	400	400
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	301.8	323.3	344.9	366.4	388.0
		GPM	4783	5125	5466	5808	6150
	Pressure drop	kPa	125	125	125	125	125
		ft.WG	41.0	41.0	41.0	41.0	41.0
	Connection pipe	mm	400	400	450	450	450
Sound pressure level (Max.)		dB(A)	≤95	≤95	≤95	≤95	≤95
Dimension	Outline(WxDxH)	mm	5350×2620×3100	5350×2620×3100	5350×2820×3100	5350×2820×3100	5350×2820×3100
	Package(WxDxH)	mm	5800×2630×3260	5800×2630×3260	5800×2830×3260	5800×2830×3260	5800×2830×3260
Net/Gross/Operating weight		kg	22500/22700/25950	23800/24000/27500	25500/25700/29450	26100/26300/30200	26500/26700/31000
Loading quantity	40'GP/40'HQ	set	0/0	0/0	0/0	0/0	0/0

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

R134a INVERTER

CVE Series Permanent Magnet Synchronous Inverter Centrifugal

It 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.

AHRI CERTIFIED

Quiet function | Comprehensive protection | Memory function | Long-distance monitoring | High efficiency | Energy saving function

- 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-efficiecy permanent magnet synchronous inverter motor, whose power is over 400kW and rotation speed is over 18000rp. 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(℃)	Outlet(℃)	Inlet(℃)	Outlet(℃)	Outlet(℃)	I/O difference(℃)	Inlet(℃)	I/O difference(℃)
12.2	6.7	29.4	34.9	5~15	2.5~11	12~35	3.5~11

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Model			LSBLX250SVE	LSBLX275SVE	LSBLX300SVE	LSBLX350SVE	LSBLX400SVE	LSBLX450SVE
Cooling capacity		kW	880	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	6.25	6.33	6.59
IPLV		W/W	9.94	9.98	10.01	10.38	10.51	10.94
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		kW	147	161	175	197	222	240
RLA		A	225.6	247.1	268.6	302.3	340.7	368.3
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	m²·℃/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	DN250
Condenser	Type	-	Shell and tube					
	Fouling factor	m²·℃/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	753.2	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	DN200
Sound pressure level (Max.)		Db(A)	80	80	80	82	82	82
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	5400/5850/6200	5500/5900/6400	5700/6100/6700	6100/6500/7200
Loading quantity	40'GP/40'HQ	set	0/0	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	6.53	6.81	6.74	6.84	6.74	6.92
IPLV		W/W	10.84	11.30	11.19	11.35	11.22	11.49
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		kW	269	284	313	334	365	381
RLA		A	412.8	435.9	480.4	512.6	560.2	584.7
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	m²·℃/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	-	DN250	DN250	DN250	DN250	DN250	DN250
Condenser	Type	-	Shell and tube					
	Fouling factor	m²·℃/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	1955.8	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)	85	85	85	85	88	88
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	8300/8800/9800	8400/8900/9900	8500/9000/10200	9100/9600/10500
Loading quantity	40'GP/40'HQ	set	0/0	0/0	0/0	0/0	0/0	0/0

Model			LSBLX800SVE	LSBLX850SVE	LSBLX900SVE	LSBLX950SVE	LSBLX1000SVE	LSBLX1100SVE
Cooling capacity		kW	2813	2989	3164	3340	3516	3868
		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	6.79	6.75	6.88	6.89	7.03	7.06
IPLV		W/W	11.27	11.23	11.42	11.44	11.68	11.93
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		kW	414	443	460	485	500	548
RLA		A	635.4	679.9	706.0	744.3	767.4	841.0
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	m²·℃/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	100
		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	m²·℃/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	90
		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)	88	88	88	88	88	88
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	40'GP/40'HQ	set	0/0	0/0	0/0	0/0	0/0	0/0

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R134a INVERTER

CC Series Magnetic Suspension Inverter Centrifugal

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.

130/150RT

250/275/300RT

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)

AHRI CERTIFIED

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		W/W	5.79	5.56	5.98	5.86	5.76
IPLV		W/W	10.3	10.16	10.5	10.42	10.2
Power supply		Ph/V/Hz	3/380/50	3/380/50	3/380/50	3/380/50	3/380/50
Power input		kW	79	95	147	165	183
RLA		A	121.2	145.8	225.6	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	260	255	280	305
Evaporator	Type	-	Flooded type evaporator				
	Fouling factor	m^2.℃/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.℃/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	70	70	70	70
Dimension	Outline(WxDxH)	mm	3000x1250x2000	3000x1250x2000	3800x1250x2000	3800x1250x2000	3800x1250x2000
	Package(WxDxH)	mm	3100x1350x2100	3100x1350x2100	3900x1330x2080	3900x1330x2080	3900x1330x2080
Net/Gross/Operating weight		Kg	2200/2500/2600	2200/2500/2600	3000/3250/3700	3000/3250/3700	3000/3250/3700
Loading quantity	40'GP/40'HQ	set	0/0	0/0	0/0	0/0	0/0

Operating condition of nominal cooling (water temperature)				Operating range (water temperature)			
Chilled water		Cooling water		Chilled water		Cooling water	
Inlet(℃)	Outlet(℃)	Inlet(℃)	Outlet(℃)	Outlet(℃)	I/O difference(℃)	Inlet(℃)	I/O difference(℃)
12.2	6.7	29.4	34.9	5~15	2.5~11	12~35	3.5~11

Control System Lineup

Control system \ Product series				Modulor chiller: Split serirs	Modulor chiller: Integral series	Modulor chiller: D series	Screw chiller: Air-cooled Screw chiller	Screw chiller: Water-cooled screw chiller	Centrifugal chiller	Inverter Centrifugal Chiller	Magnetic suspension inverter centrifugal chiller(CC series)
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	FE30-00/A(M)				○	○	○	○	○	○
BMS accessories*2 (mocbus)	Communication module	ME30-28/E(M)				○					
Other modules	Optoelectronic isolated converter	RS232-RS422\485				○	○	○	○	○	○
	Patch board	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.

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TERMINAL

Fan Coil Unit
Air Curtain

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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.

Inner groove copper

Washable filter

Quiet function

Multi fan speed

Compact design

- 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 equiped with air return box.

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

2 Rows/Standard Type*

Model			FP-34WA-K	FP-51WA-K	FP-68WA-K	FP-85WA-K	FP-102WA-K	FP-136WA-K	FP-170WA-K	FP-204WA-K
Air flow volume(H/M/L)		CFM	200/146/125	300/232/155	400/291/194	500/375/250	600/464/309	800/644/429	1000/750/500	1200/926/618
ESP		Pa	12	12	12	12	12	12	12	12
Capacity	Cooling/Heating	kW	1.85/3.05	2.8/4.4	3.6/5.5	4.5/7.0	5.5/8.9	7.35/11.0	9.2/14.0	11.0/17.0
Power system	Type	Ph/V/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
	Input	W	37	45	62	70	96	120	145	185
Water system	Water flow volume	l/s	0.1	0.14	0.17	0.21	0.27	0.6	0.45	0.5
	Pressure drop	kPa	12	21	16	23	36	38	38	40
		Ft·WG	4	7	5.3	7.7	12.0	12.7	12.7	13.3
Sound pressure level		dB(A)	35	38	40	42	44	46	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	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	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)	Rc3/4							
	Condensed water drain (outer groove)	inch(mm)	Rc3/4							
Loading quantity	40'GP/40'HQ	set	448/490	447482	344/386	316/355	316/355	220/247	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	HF36
	Plenum without filter	—	HF41	HF42	HF43	HF44	HF44	HF46	HF46	HF46

2 Rows/High ESP Type*

Model			FP-34WAH-K	FP-51WAH-K	FP-68WAH-K	FP-85WAH-K	FP-102WAH-K	FP-136WAH-K	FP-170WAH-K	FP-204WAH-K
Air flow volume(H/M/L)		CFM	200/146/125	300/232/155	400/291/194	500/375/250	600/464/309	800/644/429	1000/750/500	1200/926/618
ESP		Pa	30	30	30	30	30	30	30	30
Capacity	Cooling/Heating	kW	1.8/3.05	2.8/4.4	3.6/5.5	4.5/7.0	5.5/8.9	7.35/11.0	9.2/14.0	11.0/17.0
Power system	Type	Ph/V/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
	Input	W	42	55	68	80	102	140	158	195
Water system	Water flow volume	l/s	0.1	0.14	0.17	0.21	0.27	0.6	0.45	0.5
	Pressure drop	kPa	12	21	16	23	36	38	38	40
		Ft·WG	4	7	5.3	7.7	12.0	12.7	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	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	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)	Rc3/4							
	Condensed water drain (outer groove)	inch(mm)	Rc3/4							
Loading quantity	40'GP/40'HQ	set	448/490	447/482	344/386	316/355	316/355	220/247	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	HF36
	Plenum without filter	—	HF41	HF42	HF43	HF44	HF44	HF46	HF46	HF46

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

3 Rows*

Model			FP-34WAS-R	FP-51WAS-R	FP-68WAS-R	FP-85WAS-R	FP-102WAS-R	FP-136WAS-R
Air flow volume(H/M/L)		CFM	200/146/125	300/232/155	400/291/194	500/375/250	600/464/309	800/644/429
ESP		Pa	30	30	30	30	30	30
Capacity	Cooling/Heating	kW	2.19/3.29	3.37/5.06	4.28/6.42	5.04/7.56	6.46/9.70	8.17/10.90
Power system	Type	Ph/V/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
	Input	W	44	59	72	87	108	156
Water system	Water flow volume	l/s	0.11	0.17	0.22	0.25	0.32	0.37
	Pressure drop	kPa	10	15	25	30	40	20
		Ft·WG	3.3	5	8.4	10	13.3	6.7
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	1761×510×245
	Package	mm	900×560×275	1030×560×275	1150×560×275	1230×560×275	1390×560×275	1780×560×275
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)	Rc3/4					
	Condensed water drain (outer groove)	inch(mm)	Rc3/4					
Loading quantity	40'GP/40'HQ	set	448/490	392/434	344/386	316/355	268/301	220/247
Optionals	Wired remote controller	—	Luxury wired controller: WK-010PA-K; LCD controller: WK-110PA0					
	Plenum with filter	—	HF31	HF32	HF33	HF34	HF35	HF36
	Plenum without filter	—	HF41	HF42	HF43	HF44	HF45	HF46

Model			FP-170WAS-R	FP-204WAS-R	FP-238WAS-R*1	FP-272WAS-R*1	FP-306WAS-R*1	FP-340WAS-R*1
Air flow volume(H/M/L)		CFM	1000/750/500	1200/926/618	1400/971/729	1600/1235/868	1800/1006/674	2000/1400/812
ESP		Pa	30	30	30	30	30	30
Capacity	Cooling/Heating	kW	11.4/18.2	12.2/18.6	12.4/19.5	13.5/21.3	16.0/24.8	17.0/26.1
Power system	Type	Ph/V/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
	Input	W	174	212	380	475	535	640
Water system	Water flow volume	l/s	0.55	0.57	0.57	0.64	0.74	0.79
	Pressure drop	kPa	38	45	21.9	27.9	37.5	41.2
		Ft·WG	12.7	15	7.3	9.3	12.5	13.7
Sound pressure level		dB(A)	49	52	56	59	62	63
Dimension (W×D×H)	Outline	mm	1921×510×245	1921×510×245	1671×595×354	1671×595×354	1921×595×354	1921×595×354
	Package	mm	1940×560×275	1940×560×275	1750×650×380	1750×650×380	1950×650×380	1950×650×380
Net weight/Gross weight		kg	33/38.5	24/39.5	48/55	48/55	52/60	52/60
Connection pipe diameter	Water inlet & outlet (inner groove)	inch(mm)	Rc3/4		Rc1			
	Condensed water drain (outer groove)	inch(mm)	Rc3/4		Rc1			
Loading quantity	40'GP/40'HQ	set	196/220	196/220	140/166	140/166	130/153	130/153
Optionals	Wired remote controller	—	Luxury wired controller: WK-010PA-K; LCD controller: WK-110PA0					
	Plenum with filter	—	HF37	HF37	HF28	HF28	HF29	HF29
	Plenum without filter	—	HF47	HF47	HF48	HF48	HF49	HF49

4 Rows

Model			FP-34WAF-R	FP-51WAF-R	FP-68WAF-R	FP-85WAF-R	FP-102WAF-R	FP-136WAF-R
Air flow volume(H/M/L)		CFM	188/156/80	289/259/186	383/324/207	477/368/242	571/507/395	760/616/424
ESP		Pa	30	30	30	30	30	30
Capacity	Cooling/Heating	kW	2.11/3.70	3.82/5.70	4.85/7.20	5.71/8.50	7.32/10.90	9.26/13.80
Power system	Type	Ph/V/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
	Input	W	44	59	80	87	108	156
Water system	Water flow volume	l/s	0.11	0.19	0.24	0.31	0.35	0.43
	Pressure drop	kPa	15	7.8	9.7	23.3	35.5	16.4
		Ft·WG	5	2.6	3.2	7.8	11.8	5.5
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	1761×510×245
	Package	mm	900×560×275	1030×560×275	1150×560×275	1230×560×275	1390×560×275	1780×560×275
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)	Rc3/4					
	Condensed water drain (outer groove)	inch(mm)	Rc3/4					
Loading quantity	40'GP/40'HQ	set	448/490	392/434	344/386	316/355	268/301	220/247
Optionals	Wired remote controller	—	Luxury wired controller: WK-010PA-K; LCD controller: WK-110PA0					
	Plenum with filter	—	HF31	HF32	HF33	HF34	HF35	HF36
	Plenum without filter	—	HF41	HF42	HF43	HF44	HF45	HF46

*Note: Horizontal fan coil unit with air return can be added for option choice.
*1:This product model is not fit for EU.

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4 Rows

Model			FP-170WAF-R	FP-204WAF-R	FP-238WAF-R*1	FP-272WAF-R*1	FP-306WAF-R*1	FP-340WAF-R*1
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	12.2/20.6	14.2/21.4	16.0/24.0	18.7/28.1	19.8/29.7
Power system	Type	Ph/V/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
	Input	W	174	212	380	475	535	640
Water system	Water flow volume	l/s	0.51	0.58	0.78	0.89	1.02	1.13
	Pressure drop	kPa	23.9	31.5	29.2	21.7	26.2	32.5
		Ft·WG	8.0	10.5	9.7	7.2	8.7	10.8
Sound pressure level		dB(A)	51	52	56	58	60	61
Dimension (W×D×H)	Outline	mm	1921×510×245	1921×510×245	1671×595×354	1671×595×354	1921×595×354	1921×595×354
	Package	mm	1940×560×275	1940×560×275	1750×650×380	1750×650×380	1950×650×380	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)	Rc3/4		Rc1			
	Condensed water drain (outer groove)	inch(mm)	Rc3/4		Rc1			
Loading quantity	40'GP/40'HQ	set	196/220	196/220	140/166	140/166	130/153	130/153
Optionals	Wired remote controller	—	Luxury wired controller: WK-010PA-K; LCD controller: WK-110PA0					
	Plenum with filter	—	HF37	HF37	HF28	HF28	HF29	HF29
	Plenum without filter	—	HF47	HF47	HF48	HF48	HF49	HF49

3+1 Rows

Model			FP-34WAT-R	FP-51WAT-R	FP-68WAT-R	FP-85WAT-R	FP-102WAT-R	FP-136WAT-R
Air flow volume(H/M/L)		CFM	188/156/80	289/259/186	383/324/207	477/368/242	571/507/395	760/616/424
ESP		Pa	30	30	30	30	30	30
Capacity	Cooling/Heating	kW	1.95/1.76	3.07/2.49	3.88/3.17	4.55/3.83	5.82/4.85	7.35/6.69
Power system	Type	Ph/V/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
	Input	W	44	59	80	87	108	156
Water system	Water flow volume	l/s	0.11	0.17	0.21	0.29	0.32	0.39
	Pressure drop	kPa	10.6	23.3	18.2	38	56.5	16.8
		Ft·WG	3.5	7.8	6.1	12.7	18.8	5.6
Sound pressure level		dB(A)	40	42	44	47	49	50
Dimension (W×D×H)	Outline	mm	881×510×245	1011×510×245	1131×510×245	1211×510×245	1371×510×245	1761×510×245
	Package	mm	900×560×275	1030×560×275	1150×560×275	1230×560×275	1390×560×275	1780×560×275
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)	Rc3/4					
	Condensed water drain (outer groove)	inch(mm)	Rc3/4					
Loading quantity	40'GP/40'HQ	set	448/490	392/434	344/386	316/355	268/301	220/247
Optionals	Wired remote controller	—	Luxury wired controller: WK-010PA-K; LCD controller: WK-110PA0					
	Plenum with filter	—	HF31	HF32	HF33	HF34	HF35	HF36
	Plenum without filter	—	HF41	HF42	HF43	HF44	HF45	HF46

Model			FP-170WAT-R	FP-204WAT-R	FP-238WAT-R*1	FP-272WAT-R*1	FP-306WAT-R*1	FP-340WAT-R*1
Air flow volume(H/M/L)		CFM	948/836/645	1043/786/754	1400/970/729	1600/1235/867	1800/1006/674	2000/1400/812
ESP		Pa	30	30	30	30	30	30
Capacity	Cooling/Heating	kW	9.65/7.00	10.96/8.85	12.35/12.97	13.49/14.165	15.67/16.46	16.53/17.36
Power system	Type	Ph/V/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
	Input	W	174	212	380	475	535	640
Water system	Water flow volume	l/s	0.50	0.52	0.59	0.65	0.80	0.84
	Pressure drop	kPa	28	29.4	21.8	26.6	42.1	46.4
		Ft·WG	9.3	9.8	7.3	8.9	14.0	15.5
Sound pressure level		dB(A)	51	52	56	58	60	61
Dimension (W×D×H)	Outline	mm	1921×510×245	1921×510×245	1671×595×354	1671×595×354	1921×595×354	1921×595×354
	Package	mm	1940×560×275	1940×560×275	1750×650×380	1750×650×380	1950×650×380	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)	Rc3/4		Rc1			
	Condensed water drain (outer groove)	inch(mm)	Rc3/4		Rc1			
Loading quantity	40'GP/40'HQ	set	196/220	196/220	140/166	140/166	130/153	130/153
Optionals	Wired remote controller	—	Luxury wired controller: WK-010PA-K; LCD controller: WK-110PA0					
	Plenum with filter	—	HF37	HF37	HF28	HF28	HF29	HF29
	Plenum without filter	—	HF47	HF47	HF48	HF48	HF49	HF49

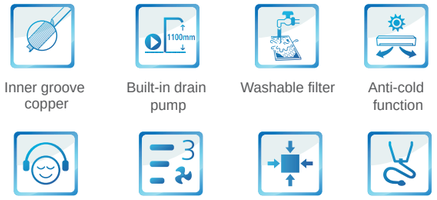
*1:This product model is not fit for EU.

Fan Coil Unit

Cassette Type

Classical panel

New panel



Inner groove copper | Built-in drain pump | Washable filter | Anti-cold function

Quiet function | Multi fan speed | Compact design | Self-diagnosis

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

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

2 Pipe Type

Model				FP-85XD/B-T*1	FP-102XD/B-T*1	FP-125XD/B-T*1	FP-140XD/B-T*1	FP-160XD/B-T*1	FP-180XD/B-T*1	FP-200XD/B-T*1
Air flow volume (H/M/L)			CFM	471/382/324	600/559/529	694/588/529	824/735/676	912/824/765	1059/853/794	1176/1000/853
Capacity	Cooling/Heating		kW	4.50/5.60	5.00/6.50	6.00/7.80	8.00/9.00	8.70/10.00	9.50/11.00	13.00/14.60
Power system	Type		Ph/V/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
	Input		W	75	110	82	120	125	160	210
Water system	Water flow volume		l/s	0.21	0.24	0.29	0.38	0.42	0.45	0.62
	Pressure drop		kPa	24	36	24	30	30	34	40
			Ft·WG	7.872	11.871	7.872	9.840	9.840	11.221	9.84
Sound pressure level			dB(A)	39	49	43	50	51	50	55
Connection pipe size	Water inlet & outlet		inch(mm)	G3/4	G3/4	G3/4	G3/4	G3/4	G3/4	G3/4
	Condensed water drain		mm	33	33	33	33	33	33	33
Body	Dimension (W×D×H)	Outline	mm	840×840×190	840×840×190	840×840×240	840×840×240	840×840×240	840×840×320	840×840×320
		Package	mm	960×960×257	960×960×257	960×960×310	960×960×310	960×960×310	960×960×394	960×960×394
	Net weight/Gross weight		kg	25/33	25/33	27/34	27/35	27/35	32/41	33/42
Panel	Dimension (W×D×H)	Outline	mm	950×950×85	950×950×85	950×950×85	950×950×85	950×950×85	950×950×85	950×950×85
		Package	mm	1030×1035×118	1030×1035×118	1030×1035×118	1030×1035×118	1030×1035×118	1030×1035×118	1030×1035×118
	Net weight/Gross weight		kg	7/11	7/11	7/11	7/11	7/11	7/11	7/11
Loading quantity	40'GP/40'HQ		set	131/147	131/147	117/133	117/133	117/133	98/112	98/112
Standard controller	Wireless remote		-	YB1FA(X-FAN)	YB1FA(X-FAN)	YB1FA(X-FAN)	YB1FA(X-FAN)	YB1FA(X-FAN)	YB1FA(X-FAN)	YB1FA(X-FAN)
Optional controller	Wired remote		-	Z4E351B	Z4E351B	Z4E351B	Z4E351B	Z4E351B	Z4E351B	Z4E351B

*1:This product model is not fit for EU.

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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.

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

Model			FP-34ZD-K	FP-51ZD-K	FP-68ZD-K	FP-85ZD-K	FP-102ZD-K	FP-136ZD-K	FP-170ZD-K	FP-204ZD-K
Air flow volume (H/M/L)		m^3/h	400/292/250	510/395/264	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	1201/927/619
Capacity	Cooling	kW	2.0	2.8	3.6	4.2	5.4	6.35	8.9	9.9
	Heating	kW	5.0	7.2	8.5	9.5	11.5	13.7	19.0	21.0
Power system	Type	Ph/V/Hz	1/230/50	1/230/50	1/230/50	1/230/50	1/230/50	1/230/50	1/230/50	1/230/50
	Input	W	45	58	72	80	86	78	150	200
Water system	Water flow volume	l/s	0.13	0.14	0.16	0.20	0.27	0.32	0.40	0.44
	Pressure drop	kPa	16.5	5	10	20	36	38	52	55
		Ft·WG	5.41	1.64	3.28	6.56	11.81	12.46	17.06	18.04
Sound pressure level		dB(A)	37	38	45	47	49	48	50	55
Connection pipe diameter	Water inlet & outlet	inch(mm)	φ3/4(19.05)	φ3/4(19.05)	φ3/4(19.05)	φ3/4(19.05)	φ3/4(19.05)	φ3/4(19.05)	φ3/4(19.05)	φ3/4(19.05)
	Condensed water drain	inch(mm)	φ5/8(15.60)	φ5/8(15.60)	φ5/8(15.60)	φ5/8(15.60)	φ5/8(15.60)	φ5/8(15.60)	φ5/8(15.60)	φ5/8(15.60)
Dimension (W×D×H)	Outline	mm	834×238×694	834×238×694	834×238×694	834×238×694	1300×188×600	1300×188×600	1590×238×695	1590×238×695
	Package	mm	963×333×845	963×333×845	963×333×845	963×333×845	1417×251×739	1417×251×739	1717×333×845	1717×333×845
Net weight/Gross weight		kg	26/33	26/33	27/34	27/34	34/40	34/40	48.5/57	48.5/57
Loading quantity	40'GP/40'HQ	set	224/267	224/267	224/267	220/267	220/244	220/244	111/117	111/117
Standard	Wireless remote controller	—	YB1FA	YB1FA	YB1FA	YB1FA	YB1FA	YB1FA	YB1FA	YB1FA
Optional	Wired remote controller	—	Z4E351B	Z4E351B	Z4E351B	Z4E351B	Z4E351B	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.
- The unit is with air valve for more reliable operation.

Nominal test condition (temperature)				
Item	DB(℃)	WB(℃)	Inlet(℃)	Outlet(℃)
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
		Ft·WG	6.56	11.81	17.38	22.96
Sound pressure level		dB(A)	35	40	43	48
Connection pipe diameter	Water inlet & outlet	inch(mm)	φ1/2(12.7)	φ1/2(12.7)	φ1/2(12.7)	φ1/2(12.7)
	Condensed water drain	inch(mm)	φ5/8(15.6)	φ5/8(15.6)	φ5/8(15.6)	φ5/8(15.6)
Dimension (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

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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.

Nominal test condition(temperature)		
Item	DB(℃)	WB(℃)
Cooling	27	19.5
Heating	21	-

Model			FM-1.25-9-K	FM-1.25-12-K	FM-1.25-15-K
Power supply		V/Hz	220-230/50	220-230/50	220-230/50
Power input		W	110	140	180
Air flow volume		m^3/h	1200	1650	2300
Sound pressure level (H/L)		dB (A)	59	61	61
Dimension (W×D×H)	Outline	mm	900x215x193	1200x215x193	1500x215x206
	Package	mm	1015x270x256	1315x270x256	1615x270x256
Net weight /gross weight		kg	16/18	20/22	25/28
Loading quantity	40'GP	set	848	660	512
	40'HQ	set	954	746	576
Setting height		m	2.3~3	2.3~3	2.3~3
Standard	Wired remote controller		ZY611	ZY611	ZY611

Control System Lineup

Control system		Product series		Cassette type	Floor ceiling type	Wall mounted type	Air curtain
Wireless remote controller		YB1FA		●	●	●	
		ZY611*1	*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 Communicaition 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.

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SPECIALIZED AC

Marine Air Conditioner
Elevator Air Conditioner
Close Control Air Conditioner

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R410A

Marine Air Conditioner

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

Display Panel
Z5A35

Golden fin condenser | Inner groove copper | Washable filter | Quiet function | Self-diagnosis | Memory function | Compact design | ℃/℉ Switch

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

Model	Hump		CYR5/NaB-T	CYR9/NaB-T	CYR12/NaB-T	CYR16/NaB-T
Capacity	Cooling	W	1400	2350	3300	3700
		BTU/h	4800	8000	11600	12600
	Heating	W	1700	2550	3500	3800
		BTU/h	5800	8700	11900	13000
EER/COP		W/W	2.69/3.40	2.94/3.23	3.30/3.37	3.52/3.17
Power supply		Ph/V/Hz	1/220~240/50 &1/230/60			
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 (W×D×H)	Outline	mm	447x308x311	410x446x311	410x459x346	479x491x341
	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

R410A

Elevator Air Conditioner

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

2~3 kW

YB1FA(XFAN)

Inner groove copper | Washable filter | Quality motor | High efficiency | Energy saving function | Fresh air supply ventilation | Low voltage startup | Wide voltage startup

Memory function | Compact design | Easier maintainability

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

Cooling operation temperature range(DB℃)
22~43

Model			GDT25	GDT35
Capacity	Cooling	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 (W×D×H)	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

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R410A

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-M	JKFD7QS/Na-M
Power supply			Ph/V/Hz	1/220/50		1/220/50		3/380/50	
Cooling capacity (total/sensible)	22℃/ 50%		kW	4.9/4.4		6.9/5.9		6.8/5.8	
	24℃/17℃		kW	5.1/4.6		7.2/6.5		7.2/6.5	
	24℃/45%		kW	5.0/4.5		7.0/6.4		7.0/6.3	
	26℃/50%		kW	5.3/4.8		7.3/6.5		7.3/6.6	
Rated input	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			℃	17~28℃±1℃		17~28℃±1℃		17~28℃±1℃	
Range of humidity and precision			%	40~60%±5%		40~60%±5%		40~60%±5%	
ESP			Pa	0	15	0	15	0	15
Indoor units	**Model**	**Normal**		**JKFD5DC/Na-E(I)**	**JKFD5DQS/Na-E(I)**	**JKFD7DC/Na-E(I)**	**JKFD7DQS/Na-E(I)**	**JKFD7C/Na-E(I)**	**JKFD7QS/Na-E(I)**
	Air flow volume		m^3/h	1850	1900	2000	2200	2000	2200
	Sound pressure level		dB(A)	61	62	61	62	61	62
	Dimension (W×D×H)	Outline	mm	800×690×2250	800×690×1950	800×690×2250	800×690×1950	800×690×2250	800×690×1950
		Package	mm	900×790×2370	900×790×2100	900×790×2370	900×790×2100	900×790×2370	900×790×2100
	Net weight/gross weight		kg	235/245	215/225	235/245	215/225	235/245	215/225
Outdoor units	**Model**			**JKFD5/Na-E(O)**	**JKFD5/Na-E(O)**	**JKFD7/Na-E(O)**	**JKFD7/Na-E(O)**	**JKFD7/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	20/20

Notes:
1. The cooling capacity was tested when the outdoor temperature was as follows: Dry-bulb temperature was 35℃; Wet-bulb temperature was 24℃.
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℃~48℃

*1:This product model is not fit for EU.

Model	Normal			JKFD13C/Na-M	JKFD13QS/Na-M	JKFD13SX/Na-M	JKFD19C/Na-M	JKFD19QS/Na-M	JKFD19SX/Na-M
Power supply			Ph/V/Hz	3/380/50			3/380/50		
Cooling capacity (total/sensible)	22℃/ 50%		kW	13.8/12.5			18.0/17.0		
	24℃/17℃		kW	14.0/12.6			19.0/17.4		
	24℃/45%		kW	13.9/12.8			18.8/17.8		
	26℃/50%		kW	15.6/14.0			20.3/18.9		
Rated input	Cooling/Heating		kW	6.0/7.1			7.9/10.5		
Rated current	Cooling/Heating		A	9.10/10.77			11.97/15.91		
Heating capacity			kW	6			9		
Humidifying	Rated capacity		kg/h	4			4		
	Power input		kW	3			3		
Range of temp. controlling and precision			℃	17~28℃±1℃			17~28℃±1℃		
Range of humidity and precision			%	40~60%±5%			40~60%±5%		
ESP			Pa	0	50	50	0	100	100
Indoor units	**Model**	**Normal**		**JKFD13C/Na-M(I)**	**JKFD13QS/Na-M(I)**	**JKFD13SX/Na-M(I)**	**JKFD19C/Na-M(I)**	**JKFD19QS/Na-M(I)**	**JKFD19SX/Na-M(I)**
	Air flow volume		m^3/h	4900	4800	4500	7200	6600	6600
	Sound pressure level		dB(A)	62	64	64	65	67	67
	Dimension (W×D×H)	Outline	mm	1100×810×2250	1100×810×1950	1100×810×1950	1380×810×2250	1380×810×1950	1380×810×1950
		Package	mm	1200×910×2370	1200×910×2100	1200×910×2070	1480×910×2370	1480×910×2100	1480×910×2070
	Net weight/gross weight		kg	355/370	325/340	325/340	435/450	395/410	430/445
Outdoor units	**Model**			**JKFD13/Na-M(O)**	**JKFD13/Na-M(O)**	**JKFD13/Na-M(O)**	**JKFD19/Na-M(O)**	**JKFD19/Na-M(O)**	**JKFD19/Na-M(O)**
	Quantity		Set	1			1		
	Air flow volume		m^3/h	9800			11900		
	Sound pressure level		dB(A)	64			64		
	Dimension (W×D×H)	Outline	mm	1080×1180×960			1080×1180×1040		
		Package	mm	1262x1133x634			1262x1133x634		
	Net weight/gross weight		kg	100/115			100/115		
Connecting pipe	Liquid/Gas		mm	φ12/16			φ16/19		
	Method of connection			Flared-fitting Joint			Flared-fitting Joint		
Loading quantity	40'GP/40'HQ		set	0/14	14/14	14/14	0/11	11/11	11/11

Model	Normal			JKFD25C2/Na-M	JKFD25QS2/Na-M	JKFD25SX2/Na-M	JKFD40C2/Na-M	JKFD40QS2/Na-M	JKFD40SX2/Na-M
Power supply			Ph/V/Hz	3/380/50			3/380/50		
Cooling capacity (total/sensible)	22℃/ 50%		kW	26.5/23.8			39.4/36.0		
	24℃/17℃		kW	27.0/24.3			40.0/36.1		
	24℃/45%		kW	26.8/24.0			39.2/37.5		
	26℃/50%		kW	27.6/24.5			42.5/38.0		
Rated input	Cooling/Heating		kW	11.2/13.8			16.5/21.0		
Rated current	Cooling/Heating		A	16.97/20.91			24.24/31.82		
Heating capacity			kW	12			18		
Humidifying	Rated capacity		kg/h	8			8		
	Power input		kW	6			6		
Range of temp. controlling and precision			℃	17~28℃±1℃			17~28℃±1℃		
Range of humidity and precision			%	40~60%±5%			40~60%±5%		
ESP			Pa	0	100	100	0	100	100
Indoor units	**Model**	**Normal**		**JKFD25C2/Na-M(I)**	**JKFD25QS2/Na-M(I)**	**JKFD25SX2/Na-M(I)**	**JKFD40C2/Na-M(I)**	**JKFD40QS2/Na-M(I)**	**JKFD40SX2/Na-M(I)**
	Air flow volume		m^3/h	7800	7500	7500	13000	12500	12500
	Sound pressure level		dB(A)	66	68	68	68	70	70
	Dimension (W×D×H)	Outline	mm	1900×810×2250	1900×810×1950	1900×810×1950	2480×810×2250	2480×810×1950	2480×810×1950
		Package	mm	2000×910×2370	2000×910×2100	2000×910×2100	2580×910×2400	2580×910×2130	2580×910×2100
	Net weight/gross weight		kg	585/600	570/585	535/550	725/755	660/690	660/690
Outdoor units	**Model**			**JKFD13/NaA-M(O)**	**JKFD13/NaA-M(O)**	**JKFD13/NaA-M(O)**	**JKFD19/NaA-M(O)**	**JKFD19/NaA-M(O)**	**JKFD19/NaA-M(O)**
	Quantity		Set	2			2		
	Air flow volume		m^3/h	9800			11900		
	Sound pressure level		dB(A)	64			64		
	Dimension (W×D×H)	Outline	mm	1080×1180×960			1080×1180×1040		
		Package	mm	1262x1133x634			1262x1133x634		
	Net weight/gross weight		kg	100/115			100/115		
Connecting pipe	Liquid/Gas		mm	φ12/16			φ16/19		
	Method of connection			Flared-fitting Joint			Flared-fitting Joint		
Loading quantity	40'GP/40'HQ		set	0/7	7/7	7/7	0/6	6/6	6/6

Notes:
1. The cooling capacity was tested when the outdoor temperature was as follows: Dry-bulb temperature was 35℃; Wet-bulb temperature was 24℃.
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℃~48℃

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Model	Normal			JKFD40C/Na-M	JKFD40QS/Na-M
Power supply			Ph/V/Hz	3/380/50	
Cooling capacity (total/sensible)	22℃/ 50%		kW	39.3/36.0	
	24℃/17℃		kW	40.0/36.1	
	24℃/45%		kW	39.4/37.4	
	26℃/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			℃	17~28℃±1℃	
Range of humidity and precision			%	40~60%±5%	
ESP			Pa	0	100
Indoor units	**Model**	**Normal**		**JKFD40C/Na-M(I)**	**JKFD40QS/Na-M(I)**
	Air flow volume		m^3/h	13000	12500
	Sound pressure level		dB(A)	68	70
	Dimension (W×D×H)	Outline	mm	2480×810×2250	2480×810×1950
		Package	mm	2560×910×2480	2560×910×2180
	Net weight/gross weight		kg	755/795	690/730
Outdoor units	**Model**			**JKFD40/Na-M(O)**	**JKFD40/Na-M(O)**
	Quantity		Set	1	
	Air flow volume		m^3/h	23800	
	Sound pressure level		dB(A)	64	
	Dimension (W×D×H)	Outline	mm	2500×1150×1250	
		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

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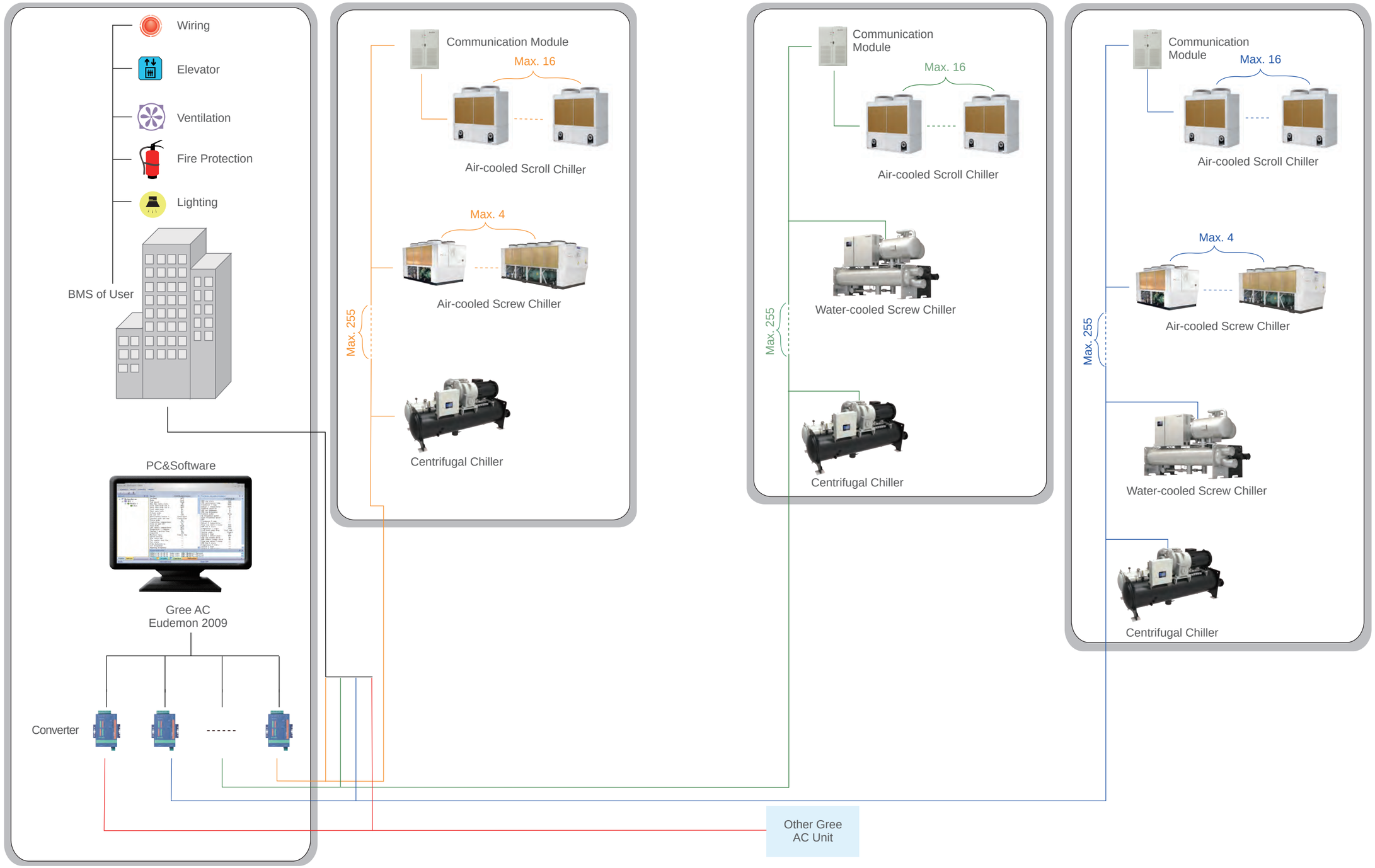
LONG-DISTANCE CONTROL SYSTEM



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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
Inida	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 Progect	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 Regestration Department	GMV
Turkey	Istanbul Kabataş 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	Nittobo Glass Weaving	Water-cooled Screw Chiller
Australia	SKF	Heat Recovery GMV

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Note

Award and Certification

ISO 9001 Quality System Certificate

ISO 14001 Environment Management System Certificate

ISO 18001 Occupation Healthy Safety System Certificate

Canadian CSA Certificate

German TÜV Certificate

3C Certificate

European Communities CE Certificate

American UL Certificate

Russian Safety Certificate

EQM

SASO Certificate

Mexico NOM Safety Certificate

German GS Certificate

European EMC Certificate

Argentina Safe Certificate

China EMC Certificate

Hongkong Energy-saving Certificate

Hongkong Safety Certificate

Australian SAA Safe Certificate

Australia SAA Certificate

CQC Certificate

America ETL Certificate

Canadian ETL Certificate

Thailand TIS Certificate