

AIR TO WATER

Versati II

Versati II + (Split Type)

Versati II + (Monobloc Type)

Split Type Water Heater

Integral Type Water Heater

Direct & Circulating Type Water Heater

PX Series Multi-functional Air-to-water Heat Pump



AIR TO WATER

INVERTER

R410A

VERSATI II

Versati II water heater can perform cooling, heating, water heating, cooling+water heating, and heating+water heating. It can be connected to radiator, floor or fan coil for heat radiation.



- Auxiliary electric heater
- Golden fin condenser
- Quiet function
- Intelligent defrosting
- Energy saving function
- High efficiency
- Easier maintainability.
- Compact design
- Low voltage startup

Item	Water Side	Heat Source/User Side
	Leaving Water Temperature(℃)	Environment Dry Bulb Temperature(℃)
Cooling	7~25	10~48
Heating	25~55	-20~35
Water Heating	40~80(Water Tank Temperature)	-20~45

Note: When operating conditions are out of the range listed above, please contact Gree.

- This unit is very powerful, smart and user-friendly, featuring various functions including holiday mode, absence mode, quiet mode, quiet preset, clock timer, weekly timer, holiday exclusion, floor setting, environment dependency mode, etc. .
- Cooling performance satisfies EU ERP energy efficiency, with a rating up to A++. Motor and water pump elements conform to the requirements set out by the EU Eco Directive.
- It can perform cooling, heating, water heating, cooling+water heating, and heating+water heating, and can be connected to radiator, floor or fan coil for heat radiation.



Outdoor Unit²

Model			GRS-CQ8.0Pd/NaE-K(O)	GRS-CQ10Pd/NaE-K(O)	GRS-CQ12Pd/NaE-K(O)	GRS-CQ14Pd/NaE-K(O)
Power Supply		V/Ph/Hz	220~240/1/50	220~240/1/50	220~240/1/50	220~240/1/50
Capacity* ¹	Cooling	kW	7.8	8.2	12.5	13.5
	Heating	kW	8	10	12	14
Power Input* ¹	Cooling	kW	2	2.1	3	3.4
	Heating	kW	1.8	2.3	2.8	3.3
EER/COP* ¹		W/W	4.0/4.5	3.9/4.4	4.2/4.3	4.0/4.2
Capacity* ²	Cooling	kW	6.3	7.2	8.5	9
	Heating	kW	7.6	9.5	11.5	12.5
Power Input* ²	Cooling	kW	2.3	2.8	2.8	3
	Heating	kW	2.2	2.9	3.4	3.8
EER/COP* ²		W/W	2.7/3.4	2.6/3.3	3.1/3.4	3/3.3
Refrigerant charge volume		kg	2.3	2.3	3.6	3.6
Sanitary water Temperature		℃	40~80	40~80	40~80	40~80
Sound Pressure Level	cooling	dB(A)	56	56	58	58
	heating	dB(A)	56	56	58	58
Connecting pipe	Gas	inch(mm)	φ15.9	φ15.9	φ15.9	φ15.9
	Liquid	inch(mm)	φ9.52	φ9.52	φ9.52	φ9.52
Dimensions (W×D×H)	Outline	mm	980x427x788	980x427x788	900x412x1345	900x412x1345
	Packaged	mm	1097x478x967	1097x478x967	998x458x1515	998x458x1515
Net weight/Gross weight		kg	80/89	80/89	107/117	107/117
Loading quantity	40'GP	set	96	96	50	50
	40'HQ	set	96	96	50	50

Model			GRS-CQ16Pd/NaE-K(O)	GRS-CQ12Pd/NaE-M(O)	GRS-CQ14Pd/NaE-M(O)	GRS-CQ16Pd/NaE-M(O)
Power Supply		V/Ph/Hz	220~240/1/50	380~415V/3/50	380~415V/3/50	380~415V/3/50
Capacity* ¹	Cooling	kW	14.5	13.5	14.5	15
	Heating	kW	15.5	12	14	15.5
Power Input* ¹	Cooling	kW	3.8	3.55	4.03	3.82
	Heating	kW	3.75	2.86	3.41	4.23
EER/COP* ¹		W/W	3.2/4.1	3.8/4.2	3.6/4.1	3.6/4.1
Capacity* ²	Cooling	kW	9.7	10	10.5	11
	Heating	kW	14.5	11.5	13	14
Power Input* ²	Cooling	kW	3.3	3.33	3.62	3.86
	Heating	kW	4.5	3.48	3.94	4.38
EER/COP* ²		W/W	2.9/3.2	3.0/3.3	2.9/3.3	2.85/3.2
Refrigerant charge volume		kg	3.6	3.6	3.6	3.6
Sanitary water Temperature		℃	40~80	40~80	40~80	40~80
Sound Pressure Level	cooling	dB(A)	58	57	57	57
	heating	dB(A)	58	57	57	57
Connecting pipe	Gas	inch(mm)	φ15.9	φ15.9	φ15.9	φ15.9
	Liquid	inch(mm)	φ9.52	φ9.52	φ9.52	φ9.52
Dimensions (W×D×H)	Outline	mm	900×412×1345	900×412×1345	900×412×1345	900×412×1345
	Packaged	mm	998×458×1515	998×458×1515	998×458×1515	998×458×1515
Net weight/Gross weight		kg	107/117	114/124	114/124	114/124
Loading quantity	40'GP	set	50	50	50	50
	40'HQ	set	50	50	50	50

- Notes:
- 1.This product model is under development.
 - 2.Gree reserves the right to modify the specifications without prior notice. Please confirm the final specifications with sales representatives.

- *1.Capacites and power inputs are based on the following conditions:

 - Cooling conditions.
 - Indoor Water Temperature 23℃/18℃.
 - Outdoor Air Temperature 35℃CDB/24℃CWB.
 - Heating conditions.
 - Indoor Water Temperature 30℃/35℃.
 - Outdoor Air Temperature 7℃CDB/6℃CWB.
 - Standing piping length 5m.
- *2.Capacites and power inputs are based on the following conditions:

 - Cooling conditions.
 - Indoor Water Temperature 12℃/7℃.
 - Outdoor Air Temperature 35℃CDB/24℃CWB.
 - Heating conditions.
 - Indoor Water Temperature 40℃/45℃.
 - Outdoor Air Temperature 7℃CDB/6℃CWB.
 - Standing piping length 5m.

Indoor Hydro Unit

Model	Indoor unit		GRS-CQ8.0Pd/NaE-K(I)	GRS-CQ10Pd/NaE-K(I)	GRS-CQ12Pd/NaE-K(I)
Power Supply		V/Ph/Hz	220~240/1/50		220~240/1/50
Nominal input		W	6100		6100
Leaving water temperature	Cooling ¹	°C	18	18	18
	Cooling ²	°C	7	7	7
	Heating ³	°C	35	35	35
	Heating ⁴	°C	45	45	45
Pump	Type	-	Water-cooled		
	Nr. of speed	-	Variable-speed		
	Power input	W	4-75	4-75	4-75
	Water flow limit	LPM	12		
Electric Heater	Operation	-	Automatic		
	Steps	-	2	2	2
	Capacity	kW	6	6	6
	Combination	kW	3+3		
	Power input	Ph/V/Hz	1Ph/220~240V/50Hz	1Ph/220~240V/50Hz	1Ph/220~240V/50Hz
Sound pressure level		dB(A)	31	31	31
Connecting pipe	Gas	inch(mm)	φ15.9	φ15.9	φ15.9
	Liquid	inch(mm)	φ9.52	φ9.52	φ9.52
Dimensions (W×D×H)	Outline	mm	981×500×324	981×500×324	981×500×324
	Packaged	mm	1043×608×395	1043×608×395	1043×608×395
Net weight/Gross weight		kg	56/65	56/65	57/66
Loading quantity	40'GP	set	205	205	205
	40'HQ	set	246	246	246

Model	Indoor unit		GRS-CQ14Pd/NaE-K(I)	GRS-CQ16Pd/NaE-K(I)	GRS-CQ12Pd/NaE-M(I)	GRS-CQ14Pd/NaE-M(I)	GRS-CQ16Pd/NaE-M(I)
Power Supply		V/Ph/Hz	220~240/1/50		380~415/3/50	380~415/3/50	380~415/3/50
Nominal input		W	6100	6100	6100	6100	6100
Leaving water temperature	Cooling ¹	°C	18	18	18	18	18
	Cooling ²	°C	7	7	7	7	7
	Heating ³	°C	35	35	35	35	35
	Heating ⁴	°C	45	45	45	45	45
Pump	Type	-	RS25/7.5	RS25/7.5	RS25/7.5	RS25/7.5	RS25/7.5
	Nr. of speed	-	800 / 4770	800 / 4770	800 / 4770	800 / 4770	800 / 4770
	Power input	W	4-75	4-75	4-75	4-75	4-75
	Water flow limit	LPM	12				
Electric Heater	Operation	-	Yes	Yes	Yes	Yes	Yes
	Steps	-	2	2	1	1	1
	Capacity	kW	6	6	6	6	6
	Combination	kW	3+3	3+3	6	6	6
	Power input	Ph/V/Hz	1Ph/220~240V/50Hz	1Ph/220~240V/50Hz	380~415V/3Ph/50Hz	380~415V/3Ph/50Hz	380~415V/3Ph/50Hz
Sound pressure level		dB(A)	31	31	31	31	31
Connecting pipe	Gas	inch(mm)	φ15.9	φ15.9	φ15.9	φ15.9	φ15.9
	Liquid	inch(mm)	φ9.52	φ9.52	φ9.52	φ9.52	φ9.52
Dimensions (W×D×H)	Outline	mm	981×500×324	981×500×324	981×500×324	981×500×324	981×500×324
	Packaged	mm	1043×608×395	1043×608×395	1043×608×395	1043×608×395	1043×608×395
Net weight/Gross weight		kg	57/66	57/66	58/67	58/67	58/67
Loading quantity	40'GP	set	205	205	205	205	205
	40'HQ	set	246	246	246	246	246

Note: *1 for floor cooling; *2 for fan coil cooling; *3 for floor heating; *4 for fan coil 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	φ620×1620	φ620×1620
	Packaged	W×D×H	mm	1623x628x645	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	φ620×1620	φ620×1620
	Packaged	W×D×H	mm	1623x628x645	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

VERSATI II + (Split Type)

R410A

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



- 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°C can prevent the growth of bacteria and ensure sanitary water, creating a wholesome life for users.
- Isolation of water and electricity ensures safe operation.
- Dual-coil design makes it convenient to join solar panel or boiler.
- Five-mode operation: heating, cooling, water heating, heating and water heating, cooling and water heating.
- The unit will periodically increase or decrease water temperature in debugging process, to improve floor adaptability for temperature change.



Item	Water Side	Heat Source/User Side
	Leaving Water Temperature(℃)	Environment Dry Bulb Temperature(℃)
Cooling	7~25	10~48
Heating	25~60	-20~35
Water Heating	40~80(Water Tank Temperature)	-20~45

Note: When operating conditions are out of the range listed above, please contact Gree.

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	220-240/1/50	220-240/1/50	380-415/3/50	380-415/3/50
Capacity*1	Cooling	kW	8.2	9.7	13.5	14
	Heating	kW	8	9.2	12	14
Power Input*1	Cooling	kW	1.86	2.46	3.46	3.68
	Heating	kW	1.85	2.19	2.67	3.33
EER/COP*1		W/W	4.41/4.32	3.94/4.20	3.90/4.49	3.80/4.20
Capacity*2	Cooling	kW	5.5	6.9	9.6	10
	Heating	kW	7.7	9	12	12.8
Power Input*2	Cooling	kW	1.85	2.34	3.02	3.22
	Heating	kW	2.26	2.65	3.24	3.56
EER/COP*2		W/W	2.97/3.41	2.95/3.40	3.18/3.70	3.11/3.60
Refrigerant charge volume		kg	3.5	3.5	5.3	5.3
Sanitary water Temperature		℃	40~80	40~80	40~80	40~80
Sound Pressure Level	cooling	dB(A)	53	53	57	57
	heating	dB(A)	54	54	57	57
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	980×427×788	980×427×788	900×412×1345	900×412×1345
	Packaged	mm	1097×477×862	1097×477×862	998×458×1515	998×458×1515
Net weight/Gross weight		kg	85/87	85/87	126/136	126/136
Loading quantity	40'GP	set	96	96	50	50
	40'HQ	set	96	96	50	50

- Notes:

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

 - Cooling conditions.
 - Indoor Water Temperature 23℃/18℃.
 - Outdoor Air Temperature 35℃CDB/24℃CWB.
 - Heating conditions.
 - Indoor Water Temperature 30℃/35℃.
 - Outdoor Air Temperature 7℃CDB/6℃CWB.
 - 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℃CDB/24℃CWB.
 - Heating conditions.
 - Indoor Water Temperature 40℃/45℃.
 - Outdoor Air Temperature 7℃CDB/6℃CWB.
 - Standing piping length 7.5m.

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	220~240/1/50	220~240/1/50	380~415/3/50	380~415/3/50
Normal 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	-	water-cooled	water-cooled	water-cooled	water-cooled
	Nr. of speed	-	variable-speed	variable-speed	variable-speed	variable-speed
	Power input	W	105	105	105	105
	Water flow limit	LPM	12	12	12	12
Electric Heater	Operation	-	-	-	-	-
	Steps	-	2	2	1	1
	Capacity	kW	3	3	3	3
	Combination	kW	3+3	3+3	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	981x500x324	981x500x324	981x500x324	981x500x324
	Packaged	mm	1043x608x395	1043x608x395	1043x608x395	1043x608x395
Net weight/Gross weight		kg	56/65	56/65	58/67	58/67
Loading quantity	40'GP	-	205	205	205	205
	40'HQ	-	246	246	246	246

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	φ620×1620	φ620×1620
	Packaged	W×D×H	mm	1623x628x630	1623x628x630	1648x708x725
Net weight/Gross weight		kg	68/77	71/80	82/92	87/97
Loading quantity		40'GP/40'HQ	set	75/100	63/63	63/63

Model			SXVD200LCJ/A-M	SXVD200LCJ2/A-M	SXVD300LCJ/A-M	SXVD300LCJ2/A-M
Water tank volume		L	200	200	300	300
Power supply		Ph/V/Hz	3/400/50	3/400/50	3/400/50	3/400/50
Electric heater power		W	3000	3000	3000	3000
Screw thread spec of pipe	Cool water inlet	inch(mm)	φ1/2"Female BSP(12.7)	φ1/2"Female BSP(12.7)	φ1/2"Female BSP(12.7)	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	φ620×1620	φ620×1620
	Packaged	W×D×H	mm	1620×625×630	1620×625×630	1645×705×710
Net weight/Gross weight		kg	68/77	71/80	82/92	87/97
Loading quantity		40'GP/40'HQ	set	75/100	63/63	63/63

Note: Gree reserves the right to modify the specifications without prior notice. Please confirm the final specifications with sales representatives.



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.



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

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



Item	Water Side	Heat Source/User Side
	Leaving Water Temperature(℃)	Environment Dry Bulb Temperature(℃)
Cooling	7~25	10~48
Heating	25~60	-20~35
Water Heating	40~80(Water Tank Temperature)	-20~45

Note: When operating conditions are out of the range listed above, please contact Gree.

Model			GRS-CQ8.0Pd/NaC-K	GRS-CQ10Pd/NaC-K	GRS-CQ12Pd/NaC-M	GRS-CQ14Pd/NaC-M
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	3.92/4.32	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		°C	40~80	40~80	40~80	40~80
Sound pressure level	Cooling	dB(A)	53	53	54	54
	Heating	dB(A)	53	53	54	54
Connecting pipe diameter	Gas	inch(mm)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)	φ5/8(15.9)
	Liquid	inch(mm)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)	φ3/8(9.52)
Dimensions (W×D×H)	Outline	mm	1390x412x890	1390x412x890	1350x381x1438	1350x381x1438
	Packaged	mm	1463x438x1035	1463x438x1035	1428x433x1575	1428x433x1575
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

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

Split Type Water Heater

Gree split type water heater offers you with sufficient hot water, ensuring an warm and comfortable life to each family. Its installation is convenient and it is applicable for a family of 3 to 5 members.



Self-diagnosis



°C/°F 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.
- Easy operation
Water temperature can be set. Water supply can be on or off depending on water temperature and water consumption, so that hot water can be supplied at any time. Unit on/off can be set by user according to requirements (the unit will stop once water temperature reaches the setting point). Running of unit in electric platykurtosis is possible to reduce electricity fee.
- Intelligent defrosting
The unit with anti-freezing and intelligent defrosting functions can efficiently prevent freezing and frosting.
- All-day use
The unit can make and supply hot water all day in despite of night, overcast and rainy days.

Outdoor Unit

Model			GRS-S3.5PdG/NaA1-K
Rated Heating Capacity ¹		W	3500
Rated Input Power ¹		W	833
Load Profile		-	L
COP ²		W/W	3.1
Energy Efficiency Class ²		-	A+
Water Heating Energy Efficiency ²		-	130%
Heating Time (7/6 °C, 15-55°C)		h	5.40
Maximum Input Power		W	2000+1500W (Electric Heater)
Circuit Breaker		A	16
Outlet Water Temperature		°C	Default: 55°C, 35°C~55°C
Power Supply		-	220-240V~50Hz
Insulation Level		-	I
Protection of Ingression		-	I PX4
Refrigerant	Name		R410A
	Charge	kg	1.40
Outline Dimensions	WxDxH	mm	842x320x591
Package Dimensions	WxDxH	mm	948x363x660
Max. Pipe Length/Height		m	20
Gross/Net Weight		kg	44.5/38.50
Sound Power Level ³		dB(A)	63
Operating Range		°C	-25~45°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 °C , as per EN16147, (EU) No 814/2013.
3. Value obtained as per EN 12102-2008.
4. Gree reserves the right to modify the specifications without prior notice. Please confirm the final specifications with sales representatives.
5. GRS-S3.0G/NbA-K is fixed-frequency model with refrigerant of R134a;GRS-S3.5PdG/NaA1-K is inverter model with refrigerant of R410A.

Water Tank

Model			SXTD200LCJW/A-K
Capacity	L		185
Power Supply for Electric Heater	-		220V-240V~50Hz
Input Power for Electric Heater	W		1500
Max. Operation Pressure	MPa		0.70
Outline Dimensions(WxDxH)	mm		462x462x1944
Package Dimensions(WxDxH)	mm		583x583x2045
Water Tank Gross/Net Weight	kg		88/75
Outer Size of Connection Pipe	mm		Φ6, Φ9.52

Note: Gree reserves the right to modify the specifications without prior notice. Please confirm the final specifications with sales representatives.

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. This unit is applicable for garage, storage room, balcony and other household locations.



Controller XK64



Controller ZF5201



High efficiency



Intelligent defrosting



Energy Saving



Wide operation range



°C/°F 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 in 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.



Model		GRS-2.4/D270ANbA-K ^{*1}	GRS-1.5/TD150ANbA-K ^{*1}	GRS-1.5/TD200ANbA-K ^{*1}
Capacity	kW	2.4	1.5	1.5
Power Input	kW	0.685	0.429	0.429
Load Profile	-	XL	L	L
COP _{DHW}	W/W	2.61	2.47	2.24
Water Heating Energy Efficiency		105%	104.00%	95.00%
Energy Efficiency Class		A	A	A
Refrigerant	-	R134a	R134a	R134a
Refrigerant Charge Volume	kg	1.1	0.8	0.8
Circuit Breaker	A	16	16	16
Refrigerant Design Pressure	MPa	2.8	2.8	2.8
Tank Design Pressure	MPa	0.8	0.8	0.8
Max. Operation Pressure	MPa	0.8	0.8	0.8
Heating Time (7/6 °C , 15-55°C)	h	7.1	6.47	9.16
Running Ambient Temperature	°C	-7 ~ 45	0 ~ 45	0 ~ 45
Outwater Temperature	°C	35~70	35 ~ 70	35 ~ 70
Air Flow Rate	m³/h	300	/	/
Available Static Pressure	Pa	40	/	/
Max. Length of Air Connection	m	5	/	/
Sound Pressure Level(heating)	dB(A)	49	50	50
Sound Power Level(heating)	dB(A)	60	62	62
Water Pipline	Volume	L	150	200
	Water Inlet Pipe	inch	0.79	0.79
	Water Outlet Pipe	inch	0.79	0.79
Dimensions(W×D×H)	Drainage Pipe	inch	0.79	0.79
	Outline	mm	660×667×1958	621×561×1760
Net Wight/Gross Weight	Packaged	mm	813×813×2100	731×717×1845
		kg	114/139	112.0/92.0
Loading Quantity	40'GP/40'HQ	set	28/28	48/48

Note: Gree reserves the right to modify the specifications without prior notice. Please confirm the final specifications with sales representatives.

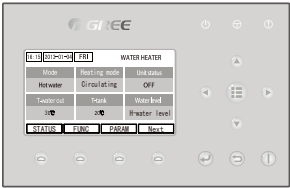
*1:This model can not installed with air duct.

*2:This model can installed with air duct.

R410A

Direct & Circulating Type Water Heater

It is a kind of heat pump water heater that could supply commercial hot water, which is applicable for operation in ambient temperature from -26℃ to 46℃.



Wired controller Z26301K



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



GRS-Dm60/NaA-M



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



GRS-Cm53/NaA-M



High efficiency



Low temperature heating



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

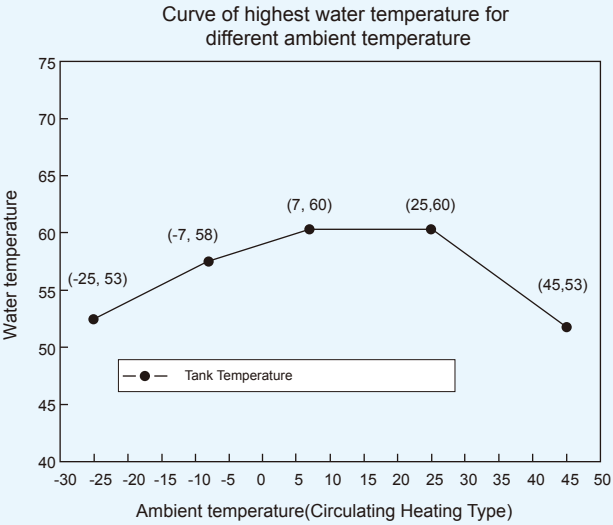
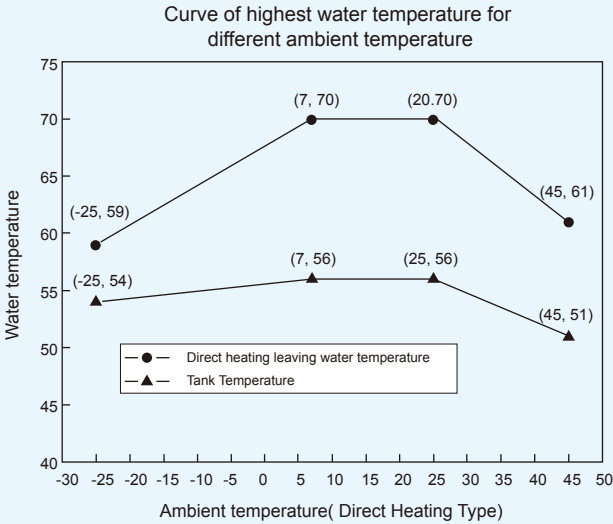
Model		GRS-Dm30/NaA-M	GRS-Dm40/NaA-M	GRS-Dm60/NaA-M
Rated water heating capacity	kW	31	40	60
Rated water supply	l/h	667	860	1300
COP	W/W	3.83	4	4
Water temperature range	℃	35 ~ 70	35 ~ 70	35 ~ 70
Power supply	Ph/V/Hz	3/380-415/50	3/380-415/50	3/380-415/50
Rated power input	Water heating kW	8.1	10	15
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-Cm36/NaA-M	GRS-Cm53/NaA-M
Rated water heating capacity	kW	28	36	53
Rated water supply	l/h	602	775	1140
COP	W/W	3.83	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

Notes:

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.
3. The above products are not for EU.
4. Gree reserves the right to modify the specifications without prior notice. Please confirm the final specifications with sales representatives.



PX Series Multi-functional Air-to-water Heat Pump

PX Series Multi-functional Air-to-water Heat Pump adopting the world’s first compressor with three cylinder two stage and variable volume designed by GREE and the latest system, structure, control system, has cooling, heating and domestic water function. It can run stably in ultra low temperature(-35 ℃) with high outlet temperature 60 ℃. It can be connected with floor radiation coil, heating radiator and fan-coil.



Outdoor Unit



Indoor Unit



200-300L



XKY02



Intelligent defrosting



Quiet function



Low temperature heating



Energy Saving



Turbo function



Wide operation range



°C/°F switch



High efficiency



Wide voltage range

- Heating capacity with full load under -15℃. Ultra heating under ambient temperature at -35℃ with outlet temperature at 60℃.
- Intelligent water anti-freezing detection technology is adopted to greatly improve the chiller’s anti-freezing performance.
- Multi objective control energy saving technology, automatic adjust the optimal operation state of the unit based on indoor temperature.

Mode	Heat Source Side Temperature(℃)	User Side Temperature(℃)
Cooling	16~48	7~22
Heatlting	-35~28	30~60

Outdoor unit

Model			GRS-CQ12Pd/NaF-K(O)	GRS-CQ14Pd/NaF-K(O)	GRS-CQ16Pd/NaF-K(O)
Power supply		V/Ph/Hz	220~240/1/50	220~240/1/50	220~240/1/50
Capacity*1	Cooling	kW	12.5	13.5	14.5
	Heating	kW	12	14	16
Power Input*1	Cooling	kW	2.95	3.34	3.72
	Heating	kW	2.79	3.2	3.7
EER/COP*1		W/W	4.24/4.36	4.05/4.37	3.9/4.3
Capacity*2	Cooling	kW	9	10	11
	Heating	kW	12	13	15
Power Input*2	Cooling	kW	2.82	3.23	3.8
	Heating	kW	4.05	4.42	5.05
EER/COP*2		W/W	3.2/2.96	3.1/2.94	2.9/2.97
Sound Pressure Level		dB(A)	57	57	57
Refrigerant		-	R410A	R410A	R410A
Refrigerant charge volume		kg	4.0	4.0	4.0
Connecting pipe diameter	Gas	mm	19	19	19
	Liquid	mm	9.52	9.52	9.52
Connecting pipe diameter	Water inlet pipe	mm	32	32	32
	Water outlet pipe	mm	32	32	32
Dimension (WxDxH)	Outline	mm	900x412x1350	900x412x1350	900x412x1350
	Package	mm	998x458x1515	998x458x1515	998x458x1515
Net weight/Gross weight		kg	133/143	133/143	133/143
Loading Quantity	40'GP	set	50	50	50
	40'HQ	set	50	50	50

Notes:
*1. The values are based on the following conditions: 1) Cooling: Indoor Water Temperature 23 ℃/18 ℃; Outdoor Air Temperature 35 ℃DB/24 ℃WB; 2) Heating: Indoor Water Temperature 30 ℃/35 ℃; Outdoor Air Temperature 7 ℃DB/6 ℃WB; 3) Standing piping length 5m.
*2. The values are based on the following conditions: 1) Cooling: Indoor Water Temperature 12 ℃/7 ℃; Outdoor Air Temperature 35 ℃DB/24 ℃WB; 2) Heating: Indoor Water Temperature 47 ℃/55 ℃; Outdoor Air Temperature 7 ℃DB/6 ℃WB; 3) Standing piping length 5m.

Indoor unit

Model			GRS-CQ12Pd/NaF-K(I)	GRS-CQ14Pd/NaF-K(I)	GRS-CQ16Pd/NaF-K(I)
Power supply		V/Ph/Hz	220~240/1/50	220~240/1/50	220~240/1/50
Rated power input		W	250	250	250
Leaving water temperature	Cooling*1	kW	7	7	7
	Cooling*2	kW	18	18	18
	Heating*1	kW	35	35	35
	Heating*2	kW	55	55	55
Pump	Type	-	RS25/7.5	RS25/7.5	RS25/7.5
	Nr.of speed	-	800/4770	800/4770	800/4770
	Power input	W	4-75	4-75	4-75
	Water flow limit	LPM	12	12	12
Sound Pressure Level		dB(A)	31	31	31
Connecting pipe diameter	Gas	mm	19	19	19
	Liquid	mm	9.52	9.52	9.52
Connecting pipe diameter	Water inlet pipe	mm	32	32	32
	Water outlet pipe	mm	32	32	32
Dimension (WxDxH)	Outline	mm	880x500x328	880x500x328	880x500x328
	Package	mm	1235x605x410	1235x605x410	1235x605x410
Net weight/Gross weight		kg	52/64	52/64	52/64
Loading Quantity	40'GP	set	205	205	205
	40'HQ	set	246	246	246

SCROLL CHILLER

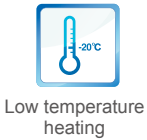
Inverter Mini Chiller (Split Type)
Inverter Mini Chiller
Mini Chiller
Modular Air-cooled Scroll Chiller



Inverter Mini Chiller (Split Type)



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 and heating. It can be used on the temperature range of -20~48 C .



- Adopt R410A, which is an eco-friendly refrigerant that is harmless to ozone layer and contains no Cl. It complies with the national requirement on energy conservation and emission reduction.
- Adopt brand-new efficient canister type heat exchanger with better heat exchange effect and higher energy efficiency; it is lighter and more compact; wall-mounted indoor unit to follow the market trend; hard to form scales, more reliable.
- User-friendly design, with energy-saving mode, absence mode, silent mode and floor commissioning function, for intelligent and high quality user experience.
- From components to system and control, they have been designed very carefully and passed strict tests. Together with self-diagnosis and malfunction diagnosis, the unit can run stably and reliably in its operating range.



Item	Water side (water temperature)				Air side (outdoor temperature)	
	Nominal operating condition		Operating range		Nominal operating condition	Operating range
	Inlet(°C)	Outlet(°C)	Outlet(°C)	I/O difference(°C)	DB(°C)	DB(°C)
Cooling	12	7	7	5	35	16~48
Heating	40	45	45	5	7	-20~28

Model	Heat Pump		HLR8Pd/NaB-K	HLR10Pd/NaB-K	HLR12Pd/NaB-K	HLR14Pd/NaB-K
Capacity	Cooling	kW	8	10	12	14
	Heating	kW	10	12	14	16
EER/COP		W/W	3.08/3.3	2.78/3.16	2.86/3.33	2.59/3.2
Power Supply		V/Ph/Hz	220/1/50			
Power input	Cooling	kW	2.6	3.6	4.2	5.4
	Heating	kW	3	3.8	4.2	5
Compressor	Type	-	inverter rotary compressor			
	Quantity	-	1	1	1	1
Refrigerant Charge volume		kg	2.8	2.8	3.4	3.4
Water flow volume		l/s	0.38	0.48	0.57	0.67
		GPM	0.31	0.39	0.47	0.55
Build-in chilled	pump power input	kW	0.27	0.27	0.27	0.27
	Delivery lift	m	7.8	7.8	7.8	7.8
Build-in expansion verssle volume		L	5	5	5	5
Chilled water outlet/inlet screw thread spec		inch	G1	G1	G1	G1
Sound Pressure level		dB(A)	58	58	59	59
Dimension(WxDxH)	Outling	mm	980x427x788	980x427x788	940x460x820	940x460x820
	Package	mm	1097x477x937	1097x477x937	1083x573x973	1083x573x973
Net weight/Gross weight		kg	82/92	82/92	103/113	103/113
Loading quantity 40'GP/40'HQ		set	74/80	74/80	69/71	69/71

Note: The product models are under development and not for EU.

Inverter Mini Chiller



Inverter mini chiller , is a king of small-size air-cooled chiller that can be connected to all sorts of fan coil units to realize cooling and heating. It can be used on the temperature range of -20~48 C .



Wired controller Z263Q



Inner groove copper



Self-diagnosis



Comprehensive protection



Memory function

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



Item	Water side (water temperature)				Air side (outdoor temperature)		
	Nominal operating condition		Operating range		Nominal operating condition		Operating range
	Inlet(°C)	Outlet(°C)	Outlet(°C)	I/O difference(°C)	DB(°C)	WB(°C)	DB(°C)
Cooling	12	7	7~25	2~10	35	24	10~48
Heating	40	45	25~60	2~10	7	6	-20~35

Model	Heat pump		HLR8Pd/Na-K	HLR10Pd/Na-K	HLR12Pd/Na-M	HLR14Pd/Na-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 water pump	Pump power input	kW	0.14	0.14	0.14	0.14
	Delivery lift	m	11	11	11	11
Build-in expansion vessel 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	1354x365x1435	1354x365x1435
	Package	mm	1463x438x1035	1463x438x1035	1443x433x1575	1443x433x1575
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

Mini Chiller



Mini Chiller is a kind of unit that makes cold water and hot water and then achieves air conditioning through the terminals selected by user. It is widely adopted in departments, villas, restaurants, shops, etc.



Quality motor



Compact design



Intelligent defrosting



Easier maintainability



Comprehensive protection



High efficiency



Wide operation range

- The appearance of unit is beautiful and installation of unit is convenient. The indoor unit and outdoor unit of split type unit can be installed in combination or split type. Meanwhile, the height of indoor unit is only 288mm. The integral type unit adopts up-inclined air outlet design with high flexibility. The unit's cooling and heating performance will not be affected by seasonal wind and installation place thanks to this design, especially suitable for installation site with limited floor height and building distance;
- The unit is equipped with water pump, expansion tank, automatic water makeup valve and safety valve. Installation of expansion water tank is not needed, which greatly reduces installation cost;
- Main control system adopts advanced computer control system for comprehensive control to the unit. Meanwhile, multiple points control function is available to control the on/off of master unit in any room, or achieve priority control to unit by setting main control point in any room.

Item	Water side (water temperature)				Air side (outdoor temperature)		
	Nominal operating condition		Operating range		Nominal operating condition		Operating range
	Inlet(°C)	Outlet(°C)	Outlet(°C)	I/O difference(°C)	DB(°C)	WB(°C)	DB(°C)
Cooling	12	7	7~25	1~5	35	24	16 ~ 43
Heating	40	45	25~60	1~5	7	6	－15 ~ 28

Model	Heat pump		HLR8WZNa-M	HLR10WZNa-M	HLR12.5WZNa-M	HLR15WZNa-M
Capacity	Cooling	kW	7.5	10	12.5	14.2
	Heating	kW	9	12	13	16.5
EER/COP		W/W	2.14/2.73	2.27/2.73	2.19/2.71	2.49/3.11
Power supply		Ph/V/Hz	3/380-415/50	3/380-415/50	3/380-415/50	3/380-415/50
Power input	Cooling	kW	3.5	4.4	5.7	5.7
	Heating	kW	3.3	4.4	4.8	5.3
Compressor	Type	—	Scroll	Scroll	Scroll	Scroll
	Quantity	—	1	1	1	1
Refrigerant charge volume		kg	3.10	3.55	4.50	5.00
Water flow volume		l/s	0.38	0.48	0.59	0.72
		GPM	5.00	6.30	7.79	9.50
Bulid-in chilled water pump	Pump power input	kW	0.55	0.55	0.55	0.55
	Delivery lift	m	18	18	18	18
Bulid-in expansion vessel volume		L	5	5	5	5
Chilled water outlet/inlet screw thread spec		inch	1"Female BSP	1"Female BSP	1"Female BSP	1"Female BSP
Indoor unit	Sound pressure level		dB(A)	38	38	38
	Dimension (W×D×H)	Outline	mm	1100×450×288	1100×450×288	1100×450×288
		Packaged	mm	1285×682×385	1285×682×385	1285×682×385
	Net weight/Gross weight		kg	84/96	84/96	84/96
Outdoor unit	Sound pressure level		dB(A)	60	60	60
	Dimension (W×D×H)	Outline	mm	950×412×840	950×412×1250	950×412×1250
		Packaged	mm	1110×450×985	1110×450×1385	1110×450×1385
	Net weight/Gross weight		kg	90/100	112/123	115/129
Outer diameter of connection pipe	Liquid pipe		inch(mm)	φ1/2(12.7)	φ1/2(12.7)	φ1/2(12.7)
	Gas pipe		inch(mm)	φ3/4(19.05)	φ3/4(19.05)	φ3/4(19.05)
Loading quantity		40'GP/40'HQ	set	52/52	63/64	63/64
Standard controller		Wired	—	Z16301		

- Notes:
- The specification is tested under the connection pipe of 7.5 meters.
 - The product models are not for EU.

Model	Heat pump		HLR22SNa-M	HLR25SNa-M	HLR35SNa-M	HLR45SNa-M	HLR35SM/NaA-M
Capacity	Cooling	kW	21.5	22.8	31	42	31
	Heating	kW	25	25	37.5	49	36
EER/COP		W/W	2.50/2.91	2.59/2.81	2.61/3.00	2.30/2.80	2.61/2.88
Power supply		Ph/V/Hz	3/380-415/50	3/380-415/50	3/380-415/50	3/380-415/50	3/380-415/50
Power input	Cooling	kW	8.6	8.8	11.9	18.3	11.9
	Heating	kW	8.6	8.9	12.5	17.5	12.5
Compressor	Type	—	Scroll	Scroll	Scroll	Scroll	Scroll
	Quantity	—	2	2	2	2	2
Refrigerant charge volume		kg	3.6×2	4.8×2	6.5×2	7.3×2	6.5×2
Water flow volume		l/s	0.92	1.2	1.4	2.2	1.4
		GPM	4.06	5.29	6.17	9.7	6.17
Bulid-in chilled water pump	Pump power input	kW	0.75	0.75	1.50	1.50	—
	Delivery lift	m	22	24	25	27	—
Bulid-in expansion vessel volume		L	8	8	8	8	—
Chilled water outlet/inlet screw thread spec		inch	1"Female BSP	1"Female BSP	1-1/2"Female BSP	1-1/2"Female BSP	1-1/2"Female BSP
Sound pressure level		dB(A)	66	66	68	68	68
Dimension (W×D×H)	Outline	mm	1460×530×1850	1460×530×1850	1750×800×1760	1750×800×1760	1750×800×1760
	Packaged	mm	1540×710×2100	1540×710×2100	1910×960×1970	1910×960×1970	1910×960×1970
Net weight/Gross weight		kg	380/387	380/392	680/690	755/765	600/610
Loading quantity		40'GP/40'HQ	set	25/25	12/12	12/12	12/12
Standard controller		Wired	—	Z12301A			Z26301C

- Notes:
- The product models are not for EU.
 - Gree reserves the right to modify the specifications without prior notice. Please confirm the final specifications with sales representatives.

Modular Air-cooled Scroll Chiller



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

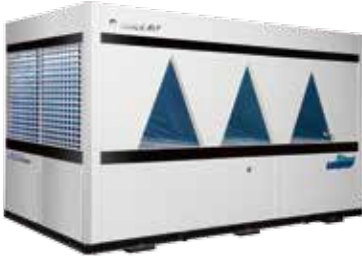
D Series



65/80kW



130/160kW



249/280kW



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-exchang-ing 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.

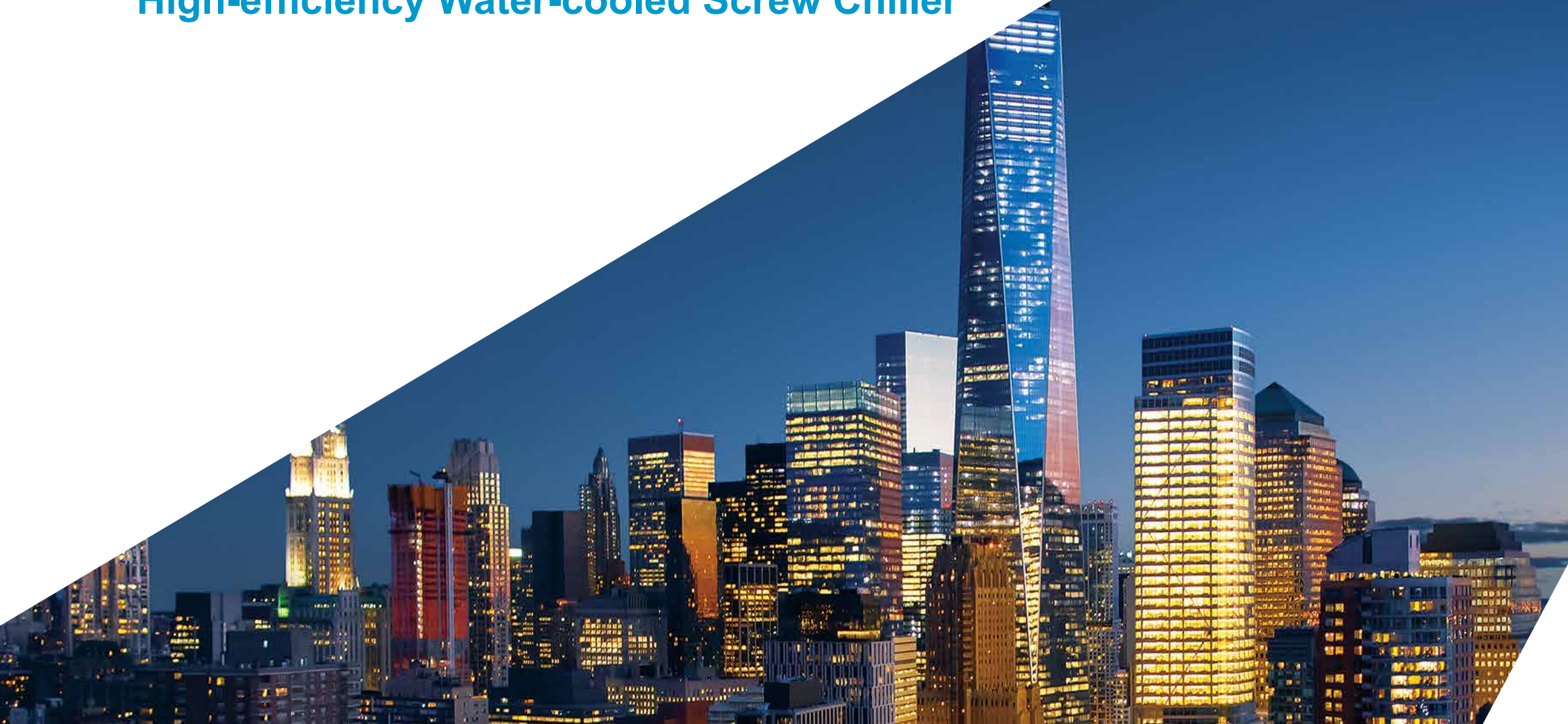
Item	Water side (water temperature)				Air side (outdoor temperature)		
	Nominal operating condition		Operating range		Nominal operating condition		Operating range
	Inlet(°C)	Outlet(°C)	Outlet(°C)	I/O difference(°C)	DB(°C)	WB(°C)	DB(°C)
Cooling	12	7	5~15	2.5~6	35	—	15~45
Heating	40	45	40~50	2.5~6	7	6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

Model	Heat pump		LSQWRF65M/NaD-M	LSQWRF80M/NaD-M	LSQWRF130M/NaD-M	LSQWRF160M/NaD-M	LSQWRF249M/NaD-M ²	LSQWRF280M/NaD-M ¹
Capacity	Cooling/Heating	kW RT	60/65 17.06/18.48	71/79.5 20.19/22.61	120/130 34.12/36.97	145/170 41.23/48.34	249/275 70.80/78.20	280/325 79.62/92.42
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	2.95/3.25	2.85/3.10
Power supply		V/Ph/Hz	380 ~ 415V-3Ph-50Hz					
Power input	Cooling	kW	21.1	25.7	42.3	53	84.4	98.2
	Heating	kW	21	27	44.4	56	84.6	104.8
Compressor	Type	—	Constant Speed Scroll					
	Starting mode	—	Direct Starting					
	Quantity	—	2	2	4	4	4	4
Water side heat exchanger	Type	—	Dry Expansion Evaporator					
	Water flow volume	l/s	2.87	3.39	5.73	6.93	11.89	13.39
		GPM	45	54	91	110	189	212
	Pressure drop	kPa	15	20	30	35	75.00	85.00
		ft.WG	4.92	6.56	9.84	11.48	24.60	27.88
	Connection pipe	—	DN65		DN80		DN100	
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	Axial-flow/8	Axial-flow/8
	Total fan air flow	l/s	2×0.375×10 ⁴	2×0.4167×10 ⁴	4×0.375×10 ⁴	4×0.4167×10 ⁴	8×0.39×10 ⁴	8×0.43×10 ⁴
		CFM	2×0.795×10 ⁴	2×0.882×10 ⁴	4×0.795×10 ⁴	4×0.882×10 ⁴	8×0.8239×10 ⁴	8×0.918×10 ⁴
Total fan motor power	kW	2×0.650	2×0.950	4×0.650	4×0.950	8×0.65	8×0.75	
Sound pressure level		dB(A)	70	71	72	74	67	69
Dimension	Outline(W×D×H)	mm	2040×1000×2230	2040×1000×2230	2226X1650X2230	2226X1650X2230	3980X2260X2450	3980X2260X2450
	Package(W×D×H)	mm	2120×1080×2230	2120×1080×2230	2306X1730X2230	2306X1730X2230	4040X2260X2450	4040X2260X2450
Net/Gross/Operating weight		kg	740/745/814	792/797/871	1315/1320/1447	1504/1509/1654	2985/2995/3284	3278/3288/3606
Loading quantity	40'GP/40'HQ	set	10/10	10/10	6/6	6/6	2/2	2/2

- Notes:
1. This product model is under development. Gree reserves the right to modify the specifications without prior notice.
Please confirm the final specifications with sales representatives.
 2. This model is not fit for EU.

SCREW CHILLER

High-efficiency Heat Pump Air-cooled Screw Chiller
High-efficiency Modular Air-cooled Screw Chiller
High-efficiency Water-cooled Screw Chiller



SCREW CHILLER

₹134a

High-efficiency Heat Pump
Air-cooled Screw Chiller

Gree High-efficiency Air-cooled Screw Chiller adopts Gree brand air-cooled heat pump specialized compressor, flooded type shell-and-tube design and a totally enclosed structure. Featuring high efficiency, high reliability and low noise, this air conditioning equipment can provide cool water in summer and hot water in winter. It can be combined with fan coil unit, floor ceiling unit, packaged unit or other kinds of terminals.



Display panel
Z2F3M

- 

Golden fin condenser
- 

Inner groove copper
- 

Modular structure
- 

Comprehensive protection
- 

Self-diagnosis
- 

Long-distance monitoring
- 

Memory function
- 

24 hour timer
- 

Intelligent defrosting
- 

High efficiency

- Highly efficient and energy saving;
- Gree's efficient air-cooled heat pump specialized compressor;
- Heat pump flooded type shell-and-tube design;
- V-shaped structure for fins, efficient heat exchange design;
- Seamless connectivity on site, cooling capacity can be enlarged infinitely;
- Totally enclosed structure, patent low noise and low vibration design, safe and comfortable.

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	Heat pump		LSBLGRF320MH/NbA-M	LSBLGRF350MH/NbA-M	LSBLGRF420MH/NbA-M	LSBLGRF470MH/NbA-M
Capacity	Cooling	kW	320	350	420	470
		RT	91.0	99.5	119.4	133.6
	Heating	kW	320	350	420	470
		RT	91.0	99.5	119.4	133.6
Capacity steps		%	25%,50%~100%	25%,50%~100%	25%,50%~100%	25%,50%~100%
EER/COP		W/W	3.40	3.43	3.41	3.41
Power supply		V/Ph/Hz	380V 3N ~50Hz	380V 3N ~50Hz	380V 3N ~50Hz	380V 3N ~50Hz
Power input	Cooling	kW	94	102	123	138
	Heating	kW	94	102	123	138
Compressor	Type	-	Semi-hermetic screw compressor			
	Starting mode	-	Start Delta Start			
	Quantity	-	1	1	1	1
Water side heat exchanger	Type	-	Flooded Evaporator			
	Water flow volume	m³/h	55.0	60.2	72.2	80.8
		GPM	242	265	318	356
	Pressure drop	kPa	≤35	≤35	≤45	≤45
		ft.WG	≤11.7	≤11.7	≤15.1	≤15.1
	Connection pipe	-	DN100	DN100	DN125	DN125
Air side heat exchanger	Type	-	Aluminum Fin-copper Tube			
	Total fan air flow	m³/h	20000x6	20000x6	20000x8	20000x8
		CFM	11772x6	11772x6	11772x8	11772x8
	Total fan motor power	kW	1.5x6	1.5x6	1.5x8	1.5x8
Dimension	Outline(W×D×H)	mm	3670x2250x2550	3670x2250x2550	4890x2250x2550	4890x2250x2550
	Package(W×D×H)	mm	3750x2330x2550	3750x2330x2550	4970x2330x2550	4970x2330x2550
Net/Gross/Operating Weight		kg	4570/4610/4661	4740/4780/4835	5670/5710/5783	5780/5820/5896
Loading quantity		40/GP/40/HQ	set	0/2	0/2	0/2

Model	Heat pump		LSBLGRF520MH/NbA-M	LSBLGRF580MH/NbA-M	LSBLGRF650MH/NbA-M	LSBLGRF700MH/NbA-M
Capacity	Cooling	kW	520	580	650	700
		RT	147.9	164.9	184.8	199.0
	Heating	kW	520	580	650	700
		RT	147.9	164.9	184.8	199.0
Capacity steps		%	25%,50%~100%	25%, 50%~100%	12.5%,25%~100%	12.5%,25%~100%
EER/COP		W/W	3.42	3.41	3.42	3.43
Power supply		V/Ph/Hz	380V 3N ~ 50Hz	380V 3N ~ 50Hz	380V 3N ~ 50Hz	380V 3N ~ 50Hz
Power input	Cooling	kW	152	170	190	204
	Heating	kW	152	170	190	204
Compressor	Type	-	Semi-hermetic screw compressor			
	Starting mode	-	Start Delta Start			
	Quantity	-	1	1	2	2
Water side heat exchanger	Type	-	Flooded Evaporator			
	Water flow volume	m³/h	89.4	99.8	111.8	120.4
		GPM	394	439	492	530
	Pressure drop	kPa	≤45	≤50	≤55	≤55
		ft.WG	≤15.1	≤15.1	≤18.4	≤18.4
Air side heat exchanger	Connection pipe	-	DN125	DN125	DN150	DN150
	Type	-	Aluminum Fin-copper Tube			
	Total fan air flow	m³/h	20000x10	20000x10	20000x12	20000x12
		CFM	11772x10	11772x10	11772x12	11772x12
Dimension	Total fan motor power	kW	1.5x10	1.5x10	1.5x12	1.5x12
	Outline(W×D×H)	mm	6110x2250x2550	6110x2250x2550	7340x2250x2550	7340x2250x2550
	Package(W×D×H)	mm	6190x2330x2550	6190x2330x2550	7420x2330x2550	7420x2330x2550
Net/Gross/Operating Weight		kg	6710/6750/6844	6970/7010/7109	8550/8590/8721	8850/8890/9027
Loading quantity		40'GP/40'HQ	set	0/1	0/1	0/1

Note: The product models are not for EU.

Model	Heat pump		LSBLGRF760MH/NbA-M	LSBLGRF820MH/NbA-M	LSBLGRF860MH/NbA-M	LSBLGRF950MH/NbA-M	LSBLGRF1050MH/NbA-M
Capacity	Cooling	kW	760	820	860	950	1050
		RT	216.1	233.2	244.5	270.1	298.6
	Heating	kW	760	820	860	950	1050
		RT	216.1	233.2	244.5	270.1	298.6
Capacity steps		%	12.5%,25%~100%	12.5%,25%~100%	12.5%,25%~100%	12.5%,25%~100%	12.5%,25%~100%
EER/COP		W/W	3.42	3.42	3.41	3.42	3.41
Power supply		V/Ph/Hz	380V 3N ~ 50Hz	380V 3N ~ 50Hz	380V 3N ~ 50Hz	380V 3N ~ 50Hz	380V 3N ~ 50Hz
Power input	Cooling	kW	222	240	252	278	308
	Heating	kW	222	240	252	278	308
Compressor	Type	-	Semi-hermetic screw compressor				
	Starting mode	-	Start Delta Start				
	Quantity	-	2	2	2	2	2
Water side heat exchanger	Type	-	Flooded Evaporator				
	Water flow volume	m3/h	130.7	141	147.9	163.4	180.6
		GPM	575	621	651	719	795
	Pressure drop	kPa	≤55	≤55	≤65	≤60	≤70
		ft.WG	≤18.4	≤18.4	≤21.7	≤20.1	≤23.4
Connection pipe	-	DN150	DN150	DN150	DN150	DN200	
Air side heat exchanger	Type	-	Aluminum Fin-copper Tube				
	Total fan air flow	m3/h	20000x14	20000x14	20000x16	20000x16	20000x18
		CFM	11772x14	11772x14	11772x16	11772x16	11772x18
	Total fan motor power	kW	1.5x14	1.5x14	1.5x16	1.5x16	1.5x18
Dimension	Outline(W×D×H)	mm	8560x2250x2550	8560x2250x2550	9780x2250x2550	9780x2250x2550	11000x2250x2550
	Package(W×D×H)	mm	8640x2330x2550	8640x2330x2550	9860x2330x2550	9860x2330x2550	11080x2330x2550
Net/Gross/Operating Weight		kg	9900/9940/10098	9710/9750/9904	10910/10950/11128	11210/11250/11434	12380/12460/12628
Loading quantity	40'GP/40'HQ	set	0/1	0/1	0/1	0/1	0/1

High-efficiency Modular Air-cooled Screw Chiller

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



Model	Heat pump		LSBLGRF1160MH/NbA-M	LSBLGRF1280MH/NbA-M	LSBLGRF1400MH/NbA-M	LSBLGRF1520MH/NbA-M	LSBLGRF1650MH/NbA-M
Capacity	Cooling	kW	1160	1280	1400	1520	1650
		RT	329.8	364.0	398.1	432.2	469.2
	Heating	kW	1160	1280	1400	1520	1650
		RT	329.8	364.0	398.1	432.2	469.2
Capacity steps		%	12.5%, 25%~100%	8.3%, 16.7%~100%	6.25%, 12.5%~100%	6.25%, 12.5%~100%	6.25%, 12.5%~100%
EER/COP		W/W	3.41	3.42	3.41	3.41	3.41
Power supply		V/Ph/Hz	380V 3N ~ 50Hz	380V 3N ~ 50Hz	380V 3N ~ 50Hz	380V 3N ~ 50Hz	380V 3N ~ 50Hz
Power input	Cooling	kW	340	374	410	446	484
	Heating	kW	340	374	410	446	484
Compressor	Type	-	Semi-hermetic screw compressor				
	Starting mode	-	Start Delta Start				
	Quantity	-	2	3	4	4	4
Water side heat exchanger	Type	-	Flooded Evaporator				
	Water flow volume	m3/h	199.5	220.2	240.8	261.4	283.8
		GPM	878	970	1060	1151	1250
	Pressure drop	kPa	≤50	≤55	≤60	≤60	≤60
		ft.WG	≤16.7	≤18.4	≤20.1	≤20.1	≤20.1
Connection pipe		-	2xDN125	DN150+DN125	2×DN150	2×DN150	2×DN150
Air side heat exchanger	Type	-	Aluminum Fin-copper Tube				
	Total fan air flow	m3/h	20000x20	20000x22	20000x24	20000x26	20000x28
		CFM	11772x20	11772x22	11772x24	11772x26	11772x28
	Total fan motor power	kW	1.5x20	1.5x22	1.5x24	1.5x26	1.5x28
Dimension	Outline(W×D×H)	mm	12230x2250x2550	13450x2250x2550	14670x2250x2550	15890x2250x2550	17120x2250x2550
	Package(W×D×H)	mm	12310x2330x2550	13530x2330x2550	14750x2330x2550	15970x2330x2550	17200x2330x2550
Net/Gross/Operating Weight		kg	13050/13130/13311	15820/15900/16136	17700/17780/18054	18740/18820/19115	19670/19750/20063
Loading quantity		40'GP/40'HQ	set	0/0	0/0	0/0	0/0

Note: The product models are not for EU.

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 falls to 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

Model	Cooling only		LSBLGF320 MH/NbA-M	LSBLGF350 MH/NbA-M*	LSBLGF420 MH/NbA-M	LSBLGF470 MH/NbA-M*	LSBLGF520 MH/NbA-M	LSBLGF580 MH/NbA-M*
Capacity	Cooling	kW	320	350	420	470	520	580
		RT	91	99.5	119.4	133.6	147.9	164.9
Capacity steps		%	25%,50%~100%	25%,50%~100%	25%,50%~100%	25%,50%~100%	25%,50%~100%	25%, 50%~100%
EER		W/W	3.2	3.24	3.23	3.26	3.21	3.22
Power supply		V/Ph/Hz	380V 3N~50Hz	380V 3N~50Hz	380V 3N~50Hz	380V 3N~50Hz	380V 3N~50Hz	380V 3N~50Hz
Power input	Cooling	kW	100	108	130	144	162	180
Compressor	Type	-	Semi-hermetic screw compressor					
	Starting mode	-	Start Delta Start					
	Quantity	-	1	1	1	1	1	1
Water side heat exchanger	Type	-	Flooded Evaporator					
	Water flow volume	m³/h	55	60.2	72.2	80.8	89.4	99.8
		GPM	242	265	318	356	394	439
	Pressure drop	kPa	≤35	≤35	≤45	≤45	≤45	≤45
		ft.WG	≤11.7	≤11.7	≤15.1	≤15.1	≤15.1	≤15.1
Connection pipe	-	DN100	DN100	DN125	DN125	DN125	DN125	
Air side heat exchanger	Type	-	Aluminum Fin-copper Tube					
	Total fan air flow	m³/h	20000x6	20000x6	20000x8	20000x8	20000x10	20000x10
		CFM	11772x6	11772x6	11772x8	11772x8	11772x10	11772x10
	Total fan motor power	kW	1.5x6	1.5x6	1.5x8	1.5x8	1.5x10	1.5x10
Dimension	Outline(W×D×H)	mm	3670x2250x2550	3670x2250x2550	4890x2250x2550	4890x2250x2550	6110x2250x2550	6110x2250x2550
	Package(W×D×H)	mm	3750x2330x2550	3750x2330x2550	4970x2330x2550	4970x2330x2550	6190x2330x2550	6190x2330x2550
Net/Gross/Operating Weight	Cooling only	kg	4130/4170/4213	4320/4360/4406	4990/5030/5090	5410/5450/5518	5980/6020/6100	6100/6140/6222
Loading quantity	40'GP/40'HQ	set	0/2	0/2	0/2	0/2	0/1	0/1

Model	Cooling only		LSBLGF630 MH/NbA-M*	LSBLGF650 MH/NbA-M	LSBLGF700 MH/NbA-M*	LSBLGF750 MH/NbA-M	LSBLGF820 MH/NbA-M*	LSBLGF860 MH/NbA-M
Capacity	Cooling	kW	630	650	700	750	820	860
		RT	179.1	184.8	199.0	213.3	233.2	244.5
Capacity steps		%	25%, 50%~100%	12.5%,25%~100%	12.5%,25%~100%	12.5%,25%~100%	12.5%,25%~100%	12.5%,25%~100%
EER		W/W	3.15	3.25	3.24	3.26	3.28	3.31
Power supply		V/Ph/Hz	380V 3N~50Hz	380V 3N~50Hz	380V 3N~50Hz	380V 3N~50Hz	380V 3N~50Hz	380V 3N~50Hz
Power input	Cooling	kW	200	200	216	230	250	260
Compressor	Type	-	Semi-hermetic screw compressor					
	Starting mode	-	Start Delta Start					
	Quantity	-	1	2	2	2	2	2
Water side heat exchanger	Type	-	Flooded Evaporator					
	Water flow volume	m³/h	108.4	111.8	120.4	129	141	147.9
		GPM	477	492	530	568	621	651
	Pressure drop	kPa	≤50	≤55	≤55	≤55	≤55	≤65
		ft.WG	≤16.7	≤18.4	≤18.4	≤18.4	≤18.4	≤21.7
	Connection pipe	-	DN150	DN150	DN150	DN150	DN150	
Air side heat exchanger	Type	-	Aluminum Fin-copper Tube					
	Total fan air flow	m³/h	21500x10	20000x12	20000x12	20000x14	20000x14	20000x16
		CFM	12654x10	11772x12	11772x12	11772x14	11772x14	11772x16
	Total fan motor power	kW	1.8x10	1.5x12	1.5x12	1.5x14	1.5x14	1.5x16
Dimension	Outline(W×D×H)	mm	6110x2250x2550	7340x2250x2550	7340x2250x2550	8560x2250x2550	8560x2250x2550	9780x2250x2550
	Package(W×D×H)	mm	6190x2330x2550	7420x2330x2550	7420x2330x2550	8640x2330x2550	8640x2330x2550	9860x2330x2550
Net/Gross/Operating Weight	Cooling only	kg	6180/6220/6304	7440/7480/7589	8120/8160/8282	8350/8390/8517	9110/9150/9292	9130/9170/9313
Loading quantity	40'GP/40'HQ	set	0/1	0/1	0/1	0/1	0/1	0/1

Note: The product models with * are not for EU.

Model	Cooling only		LSBLGF940 MH/NbA-M*	LSBLGF950 MH/NbA-M	LSBLGF1050 MH/NbA-M*	LSBLGF1160 MH/NbA-M	LSBLGF1260 MH/NbA-M*	LSBLGF1280 MH/NbA-M*
Capacity	Cooling	kW	940	950	1050	1160	1260	1280
		RT	267.3	270.1	298.6	329.9	358.3	364.0
Capacity steps		%	12.5%,25%~100%	12.5%,25%~100%	12.5%,25%~100%	8.3%, 16.7%~100%	12.5%, 25%~50%	8.3%,16.7%~100%
EER		W/W	3.36	3.39	3.28	3.31	3.15	3.28
Power supply		V/Ph/Hz	380V 3N~50Hz	380V 3N~50Hz	380V 3N~50Hz	380V 3N~50Hz	380V 3N~50Hz	380V 3N~50Hz
Power input	Cooling	kW	280	280	320	350	400	390
Compressor	Type	-	Semi-hermetic screw compressor					
	Starting mode	-	Start Delta Start					
	Quantity	-	2	2	2	3	2	3
Water side heat exchanger	Type	-	Flooded Evaporator					
	Water flow volume	m³/h	161.7	163.4	180.6	199.5	216.7	220.2
		GPM	712	719	795	878	954	970
	Pressure drop	kPa	≤60	≤60	≤70	≤55	≤70	≤55
		ft.WG	≤20.1	≤20.1	≤23.4	≤18.4	≤23.4	≤18.4
	Connection pipe	-	DN150	DN150	DN200	DN150+DN125	DN200	DN150+DN125
Air side heat exchanger	Type	-	Aluminum Fin-copper Tube					
	Total fan air flow	m³/h	20000x16	20000x18	20000x18	20000x22	21500x18	20000x22
		CFM	11772x16	11772x18	11772x18	11772x22	12654x18	11772x22
	Total fan motor power	kW	1.5x16	1.5x18	1.5x18	1.5x22	1.8x18	1.5x22
Dimension	Outline(W×D×H)	mm	9780x2250x2550	11000x2250x2550	11000x2250x2550	13450x2250x2550	11000x2250x2550	13450x2250x2550
	Package(W×D×H)	mm	9860x2330x2550	11080x2330x2550	11080x2330x2550	13530x2330x2550	11080x2330x2550	13530x2330x2550
Net/Gross/Operating Weight	Cooling only	kg	9970/10010/10169	10280/10320/10486	11150/11230/11373	13370/13450/13637	11150/11230/11373	14470/14550/14759
Loading quantity	40'GP/40'HQ	set	0/1	0/1	0/1	0/0	0/1	0/0

Model	Cooling only		LSBLGF1320 MH/NbA-M	LSBLGF1400 MH/NbA-M*	LSBLGF1500 MH/NbA-M*	LSBLGF1520 MH/NbA-M	LSBLGF1650 MH/NbA-M*	LSBLGF1720 MH/NbA-M*
Capacity	Cooling	kW	1320	1400	1500	1520	1650	1720
		RT	375.3	398.1	426.5	432.2	469.2	489.1
Capacity steps		%	6.25%,12.5%~100%	6.25%,12.5%~100%	6.25%,12.5%~100%	6.25%,12.5%~100%	6.25%,12.5%~100%	6.25%,12.5%~100%
EER	W/W		3.34	3.26	3.33	3.38	3.30	3.13
Power supply	V/Ph/Hz		380V 3N~50Hz	380V 3N~50Hz	380V 3N~50Hz	380V 3N~50Hz	380V 3N~50Hz	380V 3N~50Hz
Power input	Cooling	kW	395	430	450	450	500	550
Compressor	Type	-	Semi-hermetic screw compressor					
	Starting mode	-	Start Delta Start					
	Quantity	-	4	4	4	4	4	4
Water side heat exchanger	Type	-	Flooded Evaporator					
	Water flow volume	m³/h	227	240.8	258	261.4	283.8	295.8
		GPM	999	1060	1136	1151	1249.5	1302
	Pressure drop	kPa	≤60	≤60	≤60	≤60	≤60	≤65
		ft.WG	≤20.1	≤20.1	≤20.1	≤20.1	≤20.1	≤21.7
	Connection pipe	-	2xDN150	2xDN150	2xDN150	2xDN150	2xDN150	2xDN150
Air side heat exchanger	Type	-	Aluminum Fin-copper Tube					
	Total fan air flow	m³/h	20000x24	20000x24	20000x26	20000x28	20000x28	21500x24
		CFM	11772x24	11772x24	11772x26	11772x28	11772x28	12654x24
	Total fan motor power	kW	1.5x24	1.5x24	1.5x26	1.5x28	1.5x28	1.8x24
Dimension	Outline(W×D×H)	mm	14670x2250x2550	14670x2250x2550	15890x2250x2550	17120x2250x2550	17120x2250x2550	14670x2250x2550
	Package(W×D×H)	mm	14750x2330x2550	14750x2330x2550	15970x2330x2550	17200x2330x2550	17200x2330x2550	14750x2330x2550
Net/Gross/Operating Weight	Cooling only	kg	14880/14960/15178	15840/15920/16157	17140/17220/17483	16950/17030/17289	18470/18550/18839	17510/17590/17860
Loading quantity	40'GP/40'HQ	set	0/0	0/0	0/0	0/0	0/0	0/0

Note: The product models with * are not for EU.

SCREW
CHILLER

R134a

High-efficiency Water-cooled Screw Chiller

This series of water cooled screw chiller adopts the advanced semi-enclosed dual-screw compressor, plus R134a eco-friendly refrigerant and vertical oil separator, to guarantee long time stable operation, high efficiency and energy saving; it is widely applicable to various kinds of office buildings, hospitals, schools, shopping centers and also applicable for cooling of production processing.





Comprehensive protection



Self-diagnosis



Memory function



Easier maintainability

- 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.

AIR CONDITIONING

CERTIFIED

Water Cooled Screw Chiller

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(℃)
-	7	30	-	4~15	2.5~8	18~35	3.5~8

Model		LSBLG270HE/Nb-M		LSBLG300HE/Nb-M		LSBLG350HE/Nb-M		LSBLG380HE/Nb-M		LSBLG430HE/Nb-M		LSBLG460HE/Nb-M		
Cooling capacity		kW	265		298		345		372		430		460	
		RT	75.4		84.7		98.1		105.8		122.3		130.8	
Capacity steps		%	25-100		25-100		25-100		25-100		25-100		25-100	
EER		W/W	5.94		5.98		6.05		6.09		6.09		6.06	
IPLV		W/W	6.79		6.92		6.97		7.02		6.99		6.91	
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	44.6		49.8		57.0		61.1		70.6		75.9	
RLA		A	588		588		588		640		640		730	
Compressor	Type	—												
	Starting mode	—												
	Quantity	—												
Refrigerant charge volume		kg	85		100		105		110		115		130	
Refrigeration oil		Type	—		CPI-Solest-170		CPI-Solest-170		CPI-Solest-170		CPI-Solest-170		CPI-Solest-170	
		Charge volume	L	20		20		23		23		23		23
Evaporator	Type	Flooded type shell and tube evaporator												
	Fouling factor	m ² ·℃/kW	0.018		0.018		0.018		0.018		0.018		0.018	
	Water flow volume	m ³ /h	46		51		59		64		74		79	
		GPM	201		226		261		282		326		348	
	Pressure drop	kPa	45		46		39		43		39		41	
	Connection pipe	—												
Condenser	Type	—												
	Fouling factor	m ² ·℃/kW	0.044		0.044		0.044		0.044		0.044		0.044	
	Water flow volume	m ³ /h	57		64		74		80		92		99	
		GPM	251		282		327		352		407		435	
	Pressure drop	kPa	51		54		51		52		56		50	
	Connection pipe	—												
Outline dimension (WxDxH)		mm	3170x1188x1850		3170x1188x1850		3175x1365x1959		3175x1365x1959		3175x1365x1959		3240x1465x2040	
Net/Operating weight		kg	2300/2450		2330/2450		2750/2900		2780/2950		2800/2950		3350/3550	

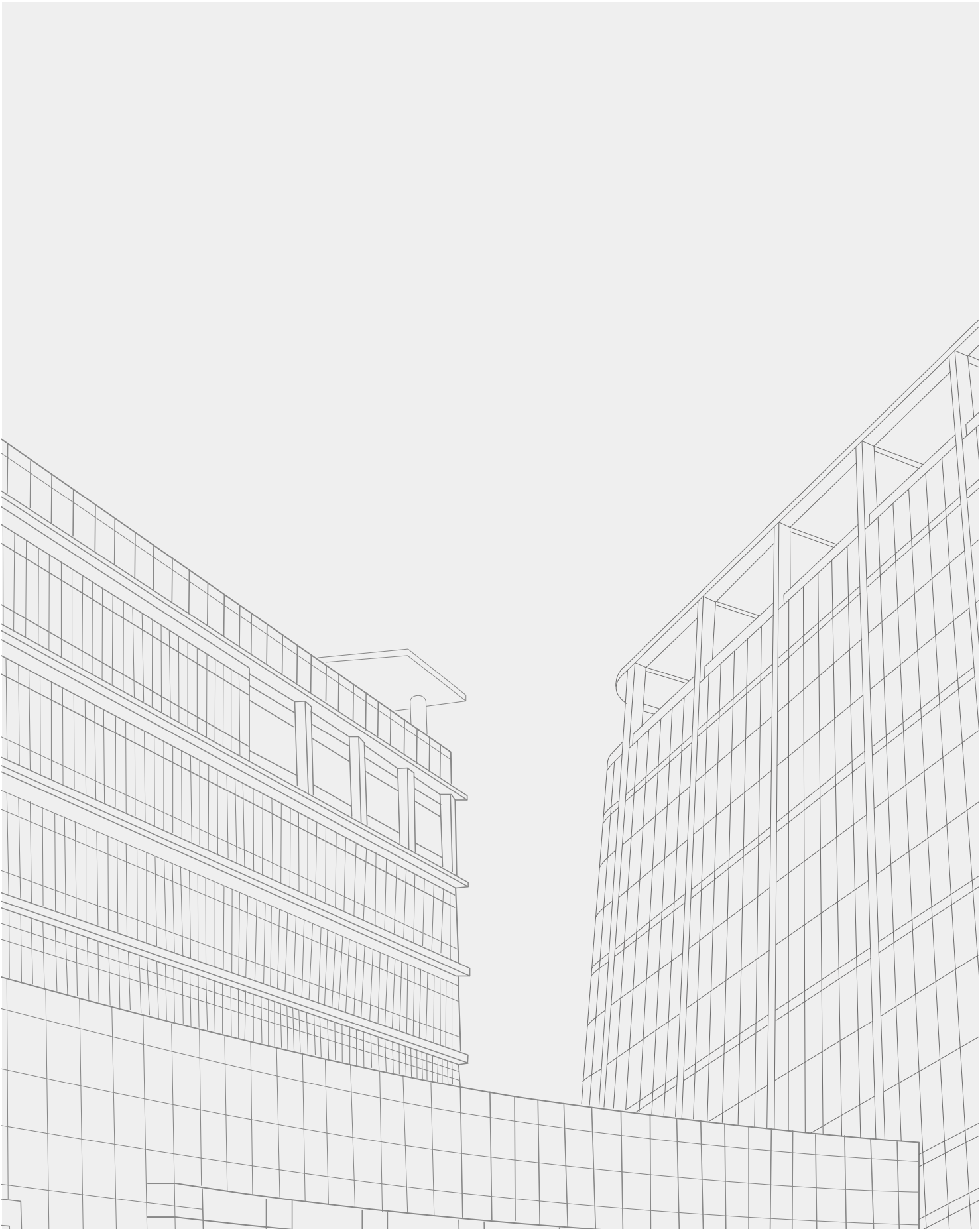
Model		LSBLG490HE/Nb-M	LSBLG550HE/Nb-M	LSBLG600HE/Nb-M	LSBLG670HE/Nb-M	LSBLG700HE/Nb-M	LSBLG760HE/Nb-M	LSBLG850HE/Nb-M	
Cooling capacity		kW	490	550	600	670	705	752	850
		RT	139.3	156.4	170.6	190.5	200.5	213.8	241.7
Capacity steps		%	25-100	25-100	25-100	25-100	12.5-100	12.5-100	12.5-100
EER		W/W	6.09	6.06	6.06	6.06	6.06	6.06	6.13
IPLV		W/W	7.02	6.90	6.93	6.91	6.97	6.99	7.06
Power supply		Ph/V/Hz	3/380/50	3/380/50	3/380/50	3/380/50	3/380/50	3/380/50	3/380/50
Power input		kW	80.4	90.7	99.0	110.5	116.4	124.0	138.6
RLA		A	800	800	950	950	580	640	640
Compressor	Type	Semi-hermetic twin screw comp.							
	Starting mode	Y-△							
	Quantity	—	1	1	1	1	2	2	2
Refrigerant charge volume		kg	140	150	180	190	100+100	110+110	120+120
Refrigeration oil	Type	—	CPI-Solest-170	CPI-Solest-170	CPI-Solest-170	CPI-Solest-170	CPI-Solest-170	CPI-Solest-170	CPI-Solest-170
	Charge volume	L	23	23	28	28	23+23	23+23	23+23
Evaporator	Type	Flooded type shell and tube evaporator							
	Fouling factor	m ² ·℃/kW	0.018	0.018	0.018	0.018	0.018	0.018	0.018
	Water flow volume	m ³ /h	84	95	103	115	121	129	146
		GPM	371	417	454	507	534	569	644
	Pressure drop	kPa	44	49	44	48	44	49	55
	Connection pipe	—	Flanged connection						
Condenser	Type	Vertical type shell and tube condenser							
	Fouling factor	m ² ·℃/kW	0.044	0.044	0.044	0.044	0.044	0.044	0.044
	Water flow volume	m ³ /h	105	118	129	144	152	162	183
		GPM	464	521	568	634	667	712	805
	Pressure drop	kPa	53	55	51	54	50	56	59
	Connection pipe	—	Flanged connection						
Outline dimension (WxDxH)		mm	3240x1465x2040	3240x1465x2040	3240x1508x2100	3240x1508x2100	3485x1530x2185	3485x1530x2185	3485x1530x2185
Net/Operating weight		kg	3370/3550	3400/3600	3830/4050	3880/4100	5250/5500	5330/5600	5380/5700

Note: The product models are not for EU.

Model			LSBLG920HE/Nb-M	LSBLG980HE/Nb-M	LSBLG1100HE/Nb-M
Cooling capacity	kW		920	980	1100
	RT		261.6	278.7	312.8
Capacity steps	%		12.5-100	12.5-100	12.5-100
EER	W/W		6.06	6.09	6.19
IPLV	W/W		6.91	7.01	7.06
Power supply	Ph/V/Hz		3/380/50	3/380/50	3/380/50
Power input	kW		151.8	160.8	177.6
RLA	A		730	800	800
Compressor	Type	—	Semi-hermetic twin screw comp.		
	Starting mode	—	Y-△		
	Quantity	—	2	2	2
Refrigerant charge volume	kg		135+135	140+140	155+155
Refrigeration oil	Type	—	CPI-Solest-170	CPI-Solest-170	CPI-Solest-170
	Charge volume	L	23+23	23+23	23+23
Evaporator	Type		Flooded type shell and tube evaporator		
	Fouling factor	m ² ·°C/kW	0.018	0.018	0.018
	Water flow volume	m ³ /h	158	169	189
		GPM	697	742	833
	Pressure drop	kPa	61	59	65
	Connection pipe	—	Flanged connection		
Condenser	Type	—	Vertical type shell and tube condenser		
	Fouling factor	m ² ·°C/kW	0.044	0.044	0.044
	Water flow volume	m ³ /h	198	211	237
		GPM	871	928	1041
	Pressure drop	kPa	73	72	77
	Connection pipe	—	Flanged connection		
Outline dimension (WxDxH)	mm		4020x1600x2200	4020x1600x2200	4020x1600x2200
Net/Operating weight	kg		6350/6700	6380/6750	6420/6800

Model			LSBLG705HE/Nb-M	LSBLG750HE/Nb-M	LSBLG1200H/Nb-M	LSBLG1300H/Nb-M	LSBLG1400H/Nb-M	LSBLG1480H/Nb-M
Cooling capacity	kW		705	752	1200	1300	1400	1480
	RT		200.5	213.8	341.2	369.6	398.1	420.8
Capacity steps	%		25%-100%	25%-100%	12.5%-100%	12.5%-100%	12.5%-100%	12.5%-100%
EER	W/W		6.06	6.06	6.15	6.14	6.16	6.18
IPLV	W/W		6.97	6.98	7.05	7.05	7.02	7.01
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		116.4	124	195	211.7	227.3	239.4
RLA	A		1510	1510	1510	1510	1510	1510
Compressor	Type	—	Screw					
	Starting mode	—	Y-△					
	Quantity	—	1	1	2	2	2	2
Refrigerant charge volume	kg		180	180	360	380	420	420
Refrigeration oil	Type	—	CPI-Solest-170	CPI-Solest-170	CPI-Solest-170	CPI-Solest-170	CPI-Solest-170	CPI-Solest-170
	Charge volume	L	28L	28L	28L	28L	28L	28L
Evaporator	Type		Evaporator					
	Fouling factor	m ² ·°C/kW	0.0176	0.0176	0.0176	0.0176	0.0176	0.0176
	Water flow volume	m ³ /h	121	129	206	224	241	255
		GPM	534	569.6	909	984.8	1060	1121
	Pressure drop	kPa	44	43	99	90	88	97
	Connection pipe	—	Flange					
Condenser	Type	—	Condenser					
	Fouling factor	m ² ·°C/kW	0.044	0.044	0.044	0.044	0.044	0.044
	Water flow volume	m ³ /h	152	162	258	280	301	318
		GPM	667.5	712	1136	1231	1325	1401
	Pressure drop	kPa	52	44	104	105	104	114
	Connection pipe	—	Flange					
Outline dimension (WxDxH)	mm		3240x1508x2100	3240x1508x2100	4550x1800x2200	4550x1800x2200	4550x1800x2200	4550x1800x2200
Net/Operating weight	kg		3930/4150	3980/4200	7790/8250	7850/8300	7900/8400	7950/8450

Note: The product models are not for EU.



CENTRIFUGAL CHILLER

CE Series Fixed-speed Centrifugal Chiller

CVE Series Permanent Magnet Synchronous Inverter Centrifugal Chiller

CC Series Magnetic Bearing Inverter Centrifugal Chiller



CE Series Fixed-speed Centrifugal Chiller

R134a

A new generation of fixed-speed centrifugal chiller, with two-stage compression technology, is highly efficient, energy-saving, safe and reliable.



Quiet function



Comprehensive protection



Memory function



Long-distance monitoring



High efficiency



Energy saving function



Two-stage compression

- Two-stage compressor air makeup technology and economizer are adopted to improve efficiency by 5~6% compared with one-stage cooling circulation system. Rotation speed of compressor is reduced, operation reliability is improved and lifespan is prolonged. Meanwhile, surge margin is wide and operation range is wide.
- Variable-area diffuser is adopted to effectively improve surge margin and system operation range, and reduce noise and vibration.
- With integrated startup cabinet and wire connection in the factory, user only needs to provide power cord, so wire connection during installation is simplified and floor area of startup cabinet is reduced.
- Semi-enclosed motor and helical refrigerant ejecting cooling technology is adopted to not only reduce the risk of refrigerant and lubricant leakage, but also prevent heat dissipation in machine room, reducing the cooling device cost and operation cost.
- New heat exchanger specially designed for centrifugal chiller contributes to even distribution of refrigerant, rational temperature field and heat exchange rate improvement; meanwhile, the heat exchanger adopts high-efficiency heat exchange tube for reducing heat transfer resistance and improving the system's cooling capacity and energy efficiency ratio.
- User-friendly touch screen is adopted for convenient operation.
- High-performance digital signal processing and intelligent control technology is adopted.



Operating condition of nominal cooling (water temperature)				Operating range (water temperature)			
Chilled water		Cooling water		Chilled water		Cooling water	
Inlet(°C)	Outlet(°C)	Inlet(°C)	Outlet(°C)	Outlet(°C)	I/O difference(°C)	Inlet(°C)	I/O difference(°C)
12.2	6.7	29.4	34.9	5~15	2.5~8	12~35	3.5~8

Model			CE310LG2HG2	CE311LG1HG1	CE320MH4HH2	CE321MH3HH1	CE330MH2JH2	CE331MH1JH1
Cooling capacity	kW		1231	1406	1582	1758	1934	2110
	RT		350	400	450	500	550	600
Capacity steps	%		10~100	10~100	10~100	10~100	10~100	10~100
EER	W/W		6.1	6.09	6.38	6.42	6.54	6.55
IPLV	W/W		6.64	6.63	6.69	6.97	6.89	7.13
Power supply	V/Ph/Hz		380/3/50	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50
Power input	kW		201.7	230.9	248	273.8	295.7	322.1
RLA	A		329.20	388.63	417.33	460.88	496.84	541.24
Compressor	Type	—	Centrifugal					
	Starting mode	—	Y-△					
	Quantity	—	1	1	1	1	1	1
Refrigerant charge volume	kg		425	450	550	575	600	625
Refrigeration oil	Type	—	No.68 synthetic fatty oil					
	Charge volume	L	50	50	50	50	50	50
	Type	—	Flooded					
Evaporator	Fouling factor	m ² ·°C/kW	0.018	0.018	0.018	0.018	0.018	0.018
	Water flow rate	L/s	53.53	61.17	68.82	76.47	84.11	91.76
		GPM	848.5	969.7	1091	1212	1333	1455
	Pressure drop	kPa	55.1	58.2	63.4	63.5	69.3	68.9
		ft.WG	18.1	19.1	20.8	20.8	22.7	22.6
	Connection pipe	—	DN200	DN200	DN250	DN250	DN250	DN250
Condenser	Type	—	Shell and Tube					
	Fouling factor	m ² ·°C/kW	0.044	0.044	0.044	0.044	0.044	0.044
	Water flow rate	L/s	66.28	75.77	84.69	94.02	103.20	112.50
		GPM	1051	1201	1343	1490	1635	1784
	Pressure drop	kPa	62.7	62.8	63.1	65.8	63.5	62.8
		ft.WG	20.6	20.6	20.7	21.6	20.8	20.6
Sound pressure level (Max.)		dB(A)	82	82	82	82	82	82
		dB(A)	82	82	82	82	82	82
Dimension	Outline(WxDxH)	mm	3850x1810x2220	3850x1810x2220	4300x1850x2310	4300x1850x2310	4250x1910x2370	4250x1910x2370
	Package(WxDxH)	mm	3950x1950x2450	3950x1950x2450	4400x1900x2550	4400x1900x2550	4400x2000x2600	4400x2000x2601
Net/Gross/Operating weight	kg		6800/7100/7450	7100/7400/7750	7300/7800/8200	7500/8000/8400	7850/8350/8800	8100/8600/9100
Loading quantity	40'GP/40'HQ	set	1	1	1	1	1	1

Model			CE410PIEKIE	CE411PIDKID	CE420PICKIC	CE421PIBKIB	CE510PIAKIA	CE511QJCMJD
Cooling capacity	kW		2285	2461	2637	2813	2989	3164
	RT		650	700	750	800	850	900
Capacity steps	%		10~100	10~100	10~100	10~100	10~100	10~100
EER	W/W		6.40	6.44	6.50	6.53	6.50	6.52
IPLV	W/W		6.82	7.02	6.94	7.11	7.09	6.98
Power supply	V/Ph/Hz		380/3/50	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50
Power input	kW		357.1	382.2	405.7	430.8	459.8	485.3
RLA	A		599.99	643.21	682.88	724.92	773.87	815.57
Compressor	Type	—	Centrifugal					
	Starting mode	—	Y-△					
	Quantity	—	1	1	1	1	1	1
Refrigerant charge volume	kg		650	675	750	775	800	900
Refrigeration oil	Type	—	No.68 synthetic fatty oil					
	Charge volume	L	60	60	60	60	80	80
	Type	—	Flooded					
Evaporator	Fouling factor	m ² ·°C/kW	0.018	0.018	0.018	0.018	0.018	0.018
	Water flow rate	L/s	99.41	107.1	114.7	122.3	130	137.6
		GPM	1576	1697	1818	1939	2061	2182
	Pressure drop	kPa	64.3	62.5	65.9	61.2	62.8	61.1
		ft.WG	21.1	20.5	21.6	20.1	20.6	20.1
	Connection pipe	—	DN250	DN250	DN250	DN250	DN250	DN300
Condenser	Type	—	Shell and Tube					
	Fouling factor	m ² ·°C/kW	0.044	0.044	0.044	0.044	0.044	0.044
	Water flow rate	L/s	122.30	131.60	140.80	150.10	159.60	168.90
		GPM	1938	2086	2232.0	2379	2529	2677
	Pressure drop	kPa	57.2	57	58.2	58.5	60.2	66.1
		ft.WG	18.8	18.7	19.1	19.2	19.7	21.7
Sound pressure level (Max.)		dB(A)	83	83	83	83	84	84
		dB(A)	83	83	83	83	84	84
Dimension	Outline(WxDxH)	mm	4550x2010x2390	4550x2010x2390	4550x2010x2390	4550x2010x2390	4550x2010x2390	4980x2210x2610
	Package(WxDxH)	mm	4700x2100x2600	4700x2100x2600	4700x2100x2600	4700x2100x2600	4700x2100x2600	5100x2300x2850
Net/Gross/Operating weight	kg		9600/10100/10700	9850/10350/10950	10100/10600/11300	10350/10950/11550	10800/11300/12050	12000/12600/13450
Loading quantity	40'GP/40'HQ	set	1	1	1	1	1	1

Model			CE512QJBMJC	CE520QJAMJB	CE521RJAMJA	CE522RJAMJA	CE610SKNQKN	CE611SKMQKM
Cooling capacity		kW	3340	3516	3692	3868	4219	4571
		RT	950	1000	1050	1100	1200	1300
Capacity steps		%	10~100	10~100	10~100	10~100	10~100	10~100
EER		W/W	6.54	6.55	6.60	6.60	6.54	6.57
IPLV		W/W	7.12	6.93	7.07	7.19	6.95	7.16
Power supply		V/Ph/Hz	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50
Power input		kW	510.7	536.8	559.4	586	645.1	695.4
RLA		A	858.29	902.18	939.99	984.90	1084.17	1169.25
Compressor	Type	—	Centrifugal					
	Starting mode	—	Y-△			soft starting		
	Quantity	—	1	1	1	1	1	1
Refrigerant charge volume		kg	925	950	950	975	1250	1300
Refrigeration oil	Type	—	No.68 synthetic fatty oil					
	Charge volume	L	80	80	80	80	100	100
Evaporator	Type	—	Flooded					
	Fouling factor	m ² ·°C/kW	0.018	0.018	0.018	0.018	0.018	0.018
	Water flow rate	L/s	145.30	152.90	160.60	168.20	183.50	198.80
		GPM	2303	2424	2546	2667	2909	3152
	Pressure drop	kPa	60.2	60.2	56.3	61.1	56.9	56.9
		ft.WG	19.7	19.8	18.5	20	18.7	18.6
	Connection pipe	—	DN300	DN300	DN300	DN300	DN350	DN350
Condenser	Type	—	Shell and Tube					
	Fouling factor	m ² ·°C/kW	0.044	0.044	0.044	0.044	0.044	0.044
	Water flow rate	L/s	178.20	187.50	196.70	206.10	225.10	243.70
		GPM	2825	2973	3118	3267	3568	3863
	Pressure drop	kPa	66.7	66.9	62.4	67.7	42	41.4
		ft.WG	21.9	21.9	20.5	22.2	13.8	13.6
	Connection pipe	—	DN300	DN300	DN300	DN300	DN350	DN350
Sound pressure level (Max.)		dB(A)	84	84	84	84	85	85
Dimension	Outline(WxDxH)	mm	4980x2210x2610	4980x2210x2610	4980x2310x2710	4980x2310x2710	5250x2530x2880	5250x2530x2880
	Package(WxDxH)	mm	5100x2300x2850	5100x2300x2850	5100x2300x2950	5100x2300x2950	5600x2900x3100	5600x2900x3100
Net/Gross/Operating weight		kg	12250/12850/13750	12500/13100/14000	13156/13756/14750	13429/14029/15050	16600/17200/18700	17000/17600/19150
Loading quantity	40'GP/40'HQ	set	1	1	1	1	1	1

Model			CE620SKLQKL	CE621TKNRKN-G	CE630TKMRKM-G	CE631TKLRKL-G	CE710TLNRLL-G	CE711TLMRLP-G	CE720TLRLQ-G
Cooling capacity		kW	4922	5274	5626	5977	6329	6680	7032
		RT	1400	1500	1600	1700	1800	1900	2000
Capacity steps		%	10~100	10~100	10~100	10~100	10~100	10~100	10~100
EER		W/W	6.52	6.55	6.62	6.65	6.66	6.68	6.66
IPLV		W/W	6.95	7.13	7.08	7.24	7.12	7.27	7.13
Power supply		V/Ph/Hz	380/3/50	10000/3/50	10000/3/50	10000/3/50	10000/3/50	10000/3/50	10000/3/50
Power input		kW	755.0	805.2	849.8	898.8	950.3	1000	1056.0
RLA		A	1268.69	35.54	37.34	37.34	40.54	40.54	42.47
Compressor	Type	—	Centrifugal						
	Starting mode	—	soft starting	Direct starting					
	Quantity	—	1	1	1	1	1	1	1
Refrigerant charge volume		kg	1350	1400	1450	1500	1600	1650	1800
Refrigeration oil	Type	—	No.68 synthetic fatty oil						
	Charge volume	L	100	100	100	100	120	120	120
Evaporator	Type	—	Flooded						
	Fouling factor	m ² ·°C/kW	0.018	0.018	0.018	0.018	0.018	0.018	0.018
	Water flow rate	L/s	214.10	229.40	244.70	260	275.30	290.60	305.90
		GPM	3394	3637	3879	4121	4364	4606	4849
	Pressure drop	kPa	57.8	55.3	46.2	46.2	57.8	57.1	57.8
		ft.WG	19	18.1	15.2	15.2	19	18.7	19
	Connection pipe	—	DN350	DN350	DN350	DN350	DN400	DN400	DN400
Condenser	Type	—	Shell and Tube						
	Fouling factor	m ² ·°C/kW	0.044	0.044	0.044	0.044	0.044	0.044	0.044
	Water flow rate	L/s	262.70	281.30	299.60	318.20	336.70	355.30	374.20
		GPM	4165	4459	4750	5044	5339	5634	5933
	Pressure drop	kPa	44.2	42.9	44.4	44.4	63.7	62.6	60.9
		ft.WG	14.5	14.1	14.6	14.6	20.9	20.5	20
	Connection pipe	—	DN350	DN400	DN400	DN400	DN450	DN450	DN450
Sound pressure level (Max.)		dB(A)	85	85	85	85	86	86	86
Dimension	Outline(WxDxH)	mm	5250x2530x2880	5400x2750x3000	5400x2750x3000	5400x2750x3000	5800x2750x3100	5800x2750x3100	5800x2750x3100
	Package(WxDxH)	mm	5600x2900x3100	5800x3200x3200	5800x3200x3200	5800x3200x3200	6400x3100x3300	6400x3100x3300	6400x3100x3300
Net/Gross/Operating weight		kg	17400/18000/19600	18600/19400/21250	19000/19800/21500	19500/20300/22050	23500/24300/26150	24000/24800/26800	24500/25300/27450
Loading quantity		40'GP/40'HQ	set	1	1	1	1	1	1

Model			CE721ULNSLN-G	CE730ULMSLM-G	CE731ULLSLL-G	CE610UN4SN4-2-G	CE611UN3SN3-2-G	CE620UN2SN2-2-G	CE621UN1SN1-2-G
Cooling capacity		kW	7384	7735	8087	8438	9142	9845	10550
		RT	2100	2200	2300	2400	2600	2800	3000
Capacity steps		%	10~100	10~100	10~100	10~100	10~100	10~100	10~100
EER		W/W	6.68	6.70	6.71	6.67	6.67	6.68	6.71
IPLV		W/W	7.27	7.17	7.30	8.19	8.18	8.20	8.24
Power supply		V/Ph/Hz	10000/3/50	10000/3/50	10000/3/50	10000/3/50	10000/3/50	10000/3/50	10000/3/50
Power input		kW	1105.0	1155.0	1205	1265.0	1371.0	1474	1572.0
RLA		A	44.14	44.14	49.01	52.93	56.45	56.84	60.62
Compressor	Type	—	Centrifugal						
	Starting mode	—	Direct starting						
	Quantity	—	1	1	1	2	2	2	2
Refrigerant charge volume		kg	2000	2100	2200	2300	2500	2700	2800
Refrigeration oil	Type	—	No.68 synthetic fatty oil						
	Charge volume	L	120	120	120	200	200	200	200
	Type	—	Flooded						
Evaporator	Fouling factor	m ² ·°C/kW	0.018	0.018	0.018	0.018	0.018	0.018	0.018
	Water flow rate	L/s	321.20	336.50	351.80	367.00	397.60	428.20	458.80
		GPM	5091	5334	5576	5818	6303	6788	7273
	Pressure drop	kPa	59.2	58.9	58.9	44.4	44.6	44.3	43.9
		ft.WG	19.4	19.3	19.3	14.6	14.6	14.5	14.4
	Connection pipe	—	DN400	DN400	DN400	DN500	DN500	DN500	DN500
	Condenser	Type	—	Shell and Tube					
Fouling factor		m ² ·°C/kW	0.044	0.044	0.044	0.044	0.044	0.044	0.044
Water flow rate		L/s	392.80	411.40	430.00	449.00	486.4	523.8	560.80
		GPM	6227	6521	6816	7118	7711	8303	8890
Pressure drop		kPa	59.8	59.2	60.8	40.1	39.9	39.7	39.7
		ft.WG	19.6	19.4	20	13.2	13.1	13	13
Connection pipe		—	DN450	DN450	DN450	DN500	DN500	DN500	DN500
Sound pressure level (Max.)		dB(A)	86	86	86	88	88	88	88
Dimension	Outline(WxDxH)	mm	5800x3000x3300	5800x3000x3300	5800x3000x3300	7600x2460x2850	7600x2460x2850	7600x2660x2950	7600x2660x2950
	Package(WxDxH)	mm	6400x3350x3350	6400x3350x3350	6400x3350x3350	8000x3360x3360	8000x3360x3360	8000x3360x3360	8000x3360x3360
Net/Gross/Operating weight		kg	26000/26800/29300	26600/27400/30000	26900/27700/30400	32000/33000/35750	33000/34000/36950	34000/35000/38150	35000/36000/39250
Loading quantity	40'GP/40'HQ	set	1	1	1	1	1	1	1

- Notes:
- Above model selection is applicable to the condition in which leaving chilled water temperature is 6.7℃ and entering cooling water temperature is 29.4℃.
 - CE610UN4SN4-2-G~CE621UN1SN1-2-G adopt independent dual-system structure.
 - Above water flow is indicated according to ARI 550/590-2015; IPLV is the test value obtained based on the working condition specified in ARI 550/590-2015.
 - Scale factors of chilled water and cooling water are 0.018 m²• °C/kW and 0.044m² • °C/kW respectively.
 - For compressor using direct starter, starting current< 7 times rated current; for compressor using star delta starter, starting current< 3.5 times rated current; for compressor using soft starter, starting current< 4.2 times rated current; direct starter takes 4 seconds, star delta starter takes 3~6 seconds, soft starter takes 10 seconds; power factor> 0.88.
 - For special working condition, please contact Gree's local sales agent.
 - Standard unit's water side bearing pressure is 1.0MPa; 1.6MPa is an available option.
 - The unit's performance parameters may be changed without prior notice due to product improvement. For the specific parameters, please refer to product nameplate.
 - The product models are not for EU.



CVE Series Permanent Magnet Synchronous Inverter Centrifugal Chiller

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 units to realize cooling for large civil and industrial buildings.



Wide operation range



Comprehensive protection



Memory function



Long-distance monitoring



High efficiency



Energy saving function



Direct-driven impeller



Integrated inverter



Two-stage compression

- As it adopts high-efficiency motor direct-driven two-stage impellers with simpler structure and more reliable operation, the size and weight of compressor is only 40% of the conventional compressor with the same cooling capacity.
- It adopts high-efficiency permanent magnet synchronous inverter motor, whose power is over 400kW and rotation speed is over 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 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 diffuser with wide blade spacing to achieve high-efficiency recycle of pressure.
- Two-stage compressor air makeup technology and economizer are adopted to improve efficiency by 5~6% compared with one-stage cooling circulation system. Rotation speed of compressor is reduced, operation reliability is improved and lifespan is prolonged. Meanwhile, surge margin and operation range are wide.
- 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	2.5~8	12~35	3.5~8

Model			CVE210HG4FG4	CVE210HG3FG3	CVE220HG2FG2	CVE220HG1FG1	CVE310LG1HG1	CVE320MH4HH2
Cooling capacity	kW		879	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		6.17	6.09	6.46	6.36	6.47	6.59
IPLV	W/W		10.06	10.31	10.37	10.77	10.95	10.7
Power supply	V/Ph/Hz		380/3/50	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50
Power input	kW		142.5	158.8	163.3	193.5	217.4	240.1
RLA	A		218.7	243.7	250.6	297.1	333.7	368.5
Compressor	Type	-	Centrifugal					
	Starting mode	-	Variable Frequency Drives					
	Quantity	-	1	1	1	1	1	1
Refrigerant charge volume	kg		350	350	375	375	450	550
Refrigeration oil	Type	-	No.68 synthetic fatty oil					
	Charge volume	L	30	30	30	40	40	40
Evaporator	Type	-	Flooded					
	Fouling factor	m ² .℃/kW	0.018	0.018	0.018	0.018	0.018	0.018
	Water flow rate	L/s	38.23	42.06	45.88	53.53	61.17	68.82
		GPM	606.1	666.7	727.3	848.5	969.7	1091
	Pressure drop	kPa	59.3	59.4	59.4	63.6	58.2	63.4
		ft.WG	19.4	19.5	19.5	20.9	19.1	20.8
Condenser	Connection pipe	-	DN200	DN200	DN200	DN200	DN200	DN250
	Type	-	Shell and Tube					
	Fouling factor	m ² .℃/kW	0.044	0.044	0.044	0.044	0.044	0.044
	Water flow rate	L/s	47.27	52.09	56.37	65.90	75.14	84.32
		GPM	749.3	825.7	893.5	1045	1191	1337
	Pressure drop	kPa	54.2	54.4	53.6	58.0	53.1	62.6
		ft.WG	17.8	17.8	17.6	19	17.4	20.5
Sound pressure level (Max.)		-	DN200	DN200	DN200	DN200	DN200	DN250
	dB(A)		80	80	80	82	82	82
Dimension	Outline(WxDxH)	mm	3770x1590x1850	3770x1590x1850	3770x1590x1850	3770x1590x1850	3850x1810x2220	4300x1850x2150
	Package(WxDxH)	mm	3900x1750x2050	3900x1750x2050	3900x1750x2050	3900x1750x2050	3950x1950x2350	4450x1950x2350
Net/Gross/Operating weight	kg		5150/5450/5700	5240/5540/5800	5500/5800/6050	5700/6000/6600	6100/6450/6400	6800/7200/7650
Loading quantity	40'GP/40'HQ	set	1	1	1	1	1	1

Model			CVE320MH3HH1	CVE410MH2JH2	CVE410MH1JH1	CVE510PIEKIE	CVE510PIDKID	CVE520PICKIC
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		6.480	6.67	6.580	6.66	6.57	6.73
IPLV	W/W		10.96	10.88	11.12	10.94	11.14	10.90
Power supply	V/Ph/Hz		380/3/50	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50
Power input	kW		271.3	289.9	320.6	343.2	374.6	391.8
RLA	A		416.5	444.9	492.0	526.7	574.9	601.3
Compressor	Type	-	Centrifugal					
	Starting mode	-	Variable Frequency Drives					
	Quantity	-	1	1	1	1	1	1
Refrigerant charge volume	kg		550	600	600	650	650	700
Refrigeration oil	Type	-	No.68 synthetic fatty oil					
	Charge volume	L	40	40	40	40	40	40
Evaporator	Type	-	Flooded					
	Fouling factor	m ² .℃/kW	0.018	0.018	0.018	0.018	0.018	0.018
	Water flow rate	L/s	76.47	84.11	91.76	99.41	107.10	114.70
		GPM	1212	1333	1455	1576	1697	1818
	Pressure drop	kPa	63.5	69.3	68.9	63.0	61.3	65.9
		ft.WG	20.8	22.7	22.6	20.7	20.1	21.6
Condenser	Connection pipe	-	DN250	DN250	DN250	DN250	DN250	DN250
	Type	-	Shell and Tube					
	Fouling factor	m ² .℃/kW	0.044	0.044	0.044	0.044	0.044	0.044
	Water flow rate	L/s	93.9	102.9	112.50	121.6	131.2	140.2
		GPM	1489	1631	1783	1928	2080	2222
	Pressure drop	kPa	65.6	63.3	62.8	56.7	56.8	57.8
		ft.WG	21.5	20.7	20.6	18.6	18.6	19
Sound pressure level (Max.)		-	DN250	DN250	DN250	DN250	DN250	DN250
	dB(A)		85	85	85	85	88	88
Dimension	Outline(WxDxH)	mm	4300x1850x2150	4250x1910x2210	4250x1910x2210	4550x2010x2300	4550x2010x2300	4550x2010x2300
	Package(WxDxH)	mm	4450x1950x2350	4400x2100x2450	4400x2100x2450	4700x2100x2500	4700x2100x2500	4700x2100x2500
Net/Gross/Operating weight	kg		6880/7280/7750	7710/8160/8600	7820/8270/8750	8860/9360/9900	8970/9470/10050	9270/9770/10400
Loading quantity	40'GP/40'HQ	set	1	1	1	1	1	1

Model			CVE520PIBKIB	CVE520PIAKIA	CVE610QJCMJD	CVE610QJBMJC	CVE620QJAMJB	CVE620RJAMJA
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	6.72	6.63	6.83	6.75	6.84	6.750
IPLV		W/W	11.10	11.24	11.30	11.44	11.16	11.44
Power supply		V/Ph/Hz	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50
Power input		kW	418.6	450.8	463.3	494.8	514	573
RLA		A	642.4	691.9	711.0	759.4	788.9	879.4
Compressor	Type	-	Centrifugal					
	Starting mode	-	Variable Frequency Drives					
	Quantity	-	1	1	1	1	1	1
Refrigerant charge volume		kg	700	700	900	900	950	950
Refrigeration oil	Type	-	No.68 synthetic fatty oil					
	Charge volume	L	40	40	50	50	50	50
Evaporator	Type	-	Flooded					
	Fouling factor	m ² .°C/kW	0.018	0.018	0.018	0.018	0.018	0.018
	Water flow rate	L/s	122.30	130.00	137.60	145.30	152.90	168.20
		GPM	1939	2061	2182	2303	2424	2667
	Pressure drop	kPa	61.2	62.8	61.1	60.2	60.2	61.1
		ft.WG	20.1	20.6	20.1	19.7	19.8	20
	Connection pipe	-	DN250	DN250	DN300	DN300	DN300	DN300
Condenser	Type	-	Shell and Tube					
	Fouling factor	m ² .°C/kW	0.044	0.044	0.044	0.044	0.044	0.044
	Water flow rate	L/s	149.5	159.2	167.9	177.50	186.5	205.5
		GPM	2370	2523	2661	2813	2956	3257
	Pressure drop	kPa	58.1	59.9	65.4	66.2	66.2	67.4
		ft.WG	19.1	19.7	21.5	21.7	21.7	22.1
Connection pipe	-	DN250	DN250	DN300	DN300	DN300	DN300	
Sound pressure level (Max.)		dB(A)	88	88	88	88	88	88
Dimension	Outline(WxDxH)	mm	4550x2010x2300	4550x2010x2300	4980x2210x2500	4980x2210x2500	4980x2210x2500	4980x2310x2600
	Package(WxDxH)	mm	4700x2100x2500	4700x2100x2500	5100x2370x2750	5100x2370x2750	5100x2370x2750	5100x2600x2850
Net/Gross/Operating weight		kg	9370/9870/10500	9480/9980/10600	10730/11230/12150	10860/11360/12250	11010/11510/12500	11670/12170/13200
Loading quantity	40'GP/40'HQ	set	1	1	1	1	1	1

Notes:
1. Above model selection is applicable to the condition in which leaving chilled water temperature is 6.7℃ and entering cooling water temperature is 29.4℃.
2. Standard unit's water side bearing pressure is 1.0MPa; 1.6MPa is an available option.
3. Scale factors of chilled water and cooling water are 0.018m².℃/kW and 0.044m².℃/kW respectively.
4. Above water flow is indicated according to ARI 550/590-2015; IPLV is the test value obtained based on the working condition specified in ARI 550/590-2015.
5. For compressor using inverter starter, starting current< rated current; power factor is 0.99.
6. The unit's performance parameters may be changed without prior notice due to product improvement. For the specific parameters, please refer to product nameplate.
7. The product models are not for EU.

CC Series Magnetic Bearing Inverter Centrifugal Chiller

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



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

- It adopts magnetic bearing to achieve oil-free operation and reduce the heat exchange influence of lubricant.
- The system adopts flooded heat exchange design and build-in subcooler in condenser.
- Impellers directly driven by the motor with gearless design, improving the reliability of the system.
- With advanced and reliable microcomputer control system, powerful group control modules and building communication interface.
- User-friendly touch screen is adopted for convenient operation, precise control and stable output.
- Multiple protection function.
- Noise of this entire unit is 10 dB(A) lower than the traditional ones.



Model			CC210FE5EE5	CC220FE4EE4	CC220FE3EE3	CC230GE2FE2	CC230GE1FE1	CC310HG5GG5
Cooling capacity		kW	352	457	527	633	703	791
		RT	100	130	150	180	200	225
Capacity adjustment range		%	10~100	10~100	10~100	10~100	10~100	10~100
EER		W/W	5.81	5.87	5.76	6.16	6.04	6.11
IPLV		W/W	9.84	9.41	9.76	9.98	10.24	9.72
Power supply		Ph/V/Hz	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50
Power input		kW	60.52	77.87	91.56	102.7	116.4	129.5
RLA		A	92.9	119.5	140.5	157.6	178.6	198.7
Compressor	Type	-	Centrifugal					
	Starting mode	-	Variable Frequency Drives					
	Quantity	-	1	1	1	1	1	1
Refrigerant charge volume		kg	210	235	250	280	300	320
Evaporator	Type	-	Flooded					
	Fouling factor	m ² .°C/kW	0.018	0.018	0.018	0.018	0.018	0.018
	Water flow rate	L/s	15.29	19.88	22.94	27.53	30.59	34.41
		GPM	242.4	315.2	363.6	436.4	484.9	545.5
	Pressure drop	kPa	31	31.9	31.7	32.4	32.0	58.0
		ft.WG	10.2	10.5	10.4	10.6	10.5	19
Connection pipe		-	DN150	DN150	DN150	DN150	DN150	DN200
Condenser	Type	-	Shell and Tube					
	Fouling factor	m ² .°C/kW	0.044	0.044	0.044	0.044	0.044	0.044
	Water flow rate	L/s	19.07	24.75	28.64	34.04	37.93	42.60
		GPM	302.3	392.4	454.0	539.6	601.2	675.3
	Pressure drop	kPa	35.5	36.2	34.9	33.9	33.9	53.7
		ft.WG	11.6	11.9	11.5	11.1	11.1	17.6
Connection pipe		-	DN150	DN150	DN150	DN150	DN150	DN200
Sound pressure level (Max.)		dB(A)	78	78	78	78	78	78
Dimension	Outline(WxDxH)	mm	3350x1140x1900	3350x1140x1900	3350x1140x1900	3350x1180x1900	3350x1180x1900	3770x1590x1950
	Package(WxDxH)	mm	3500x1360x2100	3500x1360x2100	3500x1360x2100	3500x1400x2100	3500x1400x2100	3900x1750x2050
Net/Gross/Operating weight		kg	2695/2995/3050	3329/3629/3700	3500/3800/3900	3738/4038/4200	3905/4205/4350	4796/5196/5300
Loading quantity	40'GP/40'HQ	set	1	1	1	1	1	1

Model			CC310HG4GG4	CC310HG3GG3	CC320HG2GG2	CC320HG1GG1	CC410MH4HH2	CC410MH3HH1
Cooling capacity	kW		879	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		6.16	6.06	6.34	6.23	6.42	6.48
IPLV	W/W		10.03	10.27	10.16	10.57	10.16	10.50
Power supply	Ph/V/Hz		380/3/50	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50
Power input	kW		142.7	159.6	166.4	197.5	219.1	244.2
RLA	A		219.0	244.9	255.4	303.1	336.3	374.8
Compressor	Type	-	Centrifugal					
	Starting mode	-	Variable Frequency Drives					
	Quantity	-	1	1	1	1	1	1
Refrigerant charge volume	kg		350	375	400	425	450	550
Evaporator	Type	-	Flooded					
	Fouling factor	m ² ·°C/kW	0.018	0.018	0.018	0.018	0.018	0.018
	Water flow rate	L/s	38.23	42.06	45.88	53.53	61.17	68.82
		GPM	606.1	666.7	727.3	848.5	969.7	1091
	Pressure drop	kPa	57.9	57.8	57.7	58.0	51.6	52.8
		ft.WG	19	18.9	18.9	19	16.9	17.3
	Connection pipe	-	DN200	DN200	DN200	DN200	DN200	DN250
Condenser	Type	-	Shell and Tube					
	Fouling factor	m ² ·°C/kW	0.044	0.044	0.044	0.044	0.044	0.044
	Water flow rate	L/s	47.28	52.13	56.51	66.08	75.22	84.50
		GPM	749.4	826.3	895.8	1048	1192	1340
	Pressure drop	kPa	53.6	53.9	53.3	53.6	51.3	54.7
		ft.WG	17.6	17.7	17.5	17.6	16.8	17.9
	Connection pipe	-	DN200	DN200	DN200	DN200	DN200	DN250
Sound pressure level (Max.)	dB(A)		78	78	78	78	80	80
Dimension	Outline(WxDxH)	mm	3770x1590x1950	3770x1590x1950	3770x1590x1950	3770x1590x1950	4300x1850x2150	4300x1850x2150
	Package(WxDxH)	mm	3900x1750x2050	3900x1750x2050	3900x1750x2050	3900x1750x2050	3950x1950x2350	4450x1950x2350
Net/Gross/Operating weight	kg		4833/5233/5350	4941/5341/5450	5008/5408/5600	5146/5646/5700	6335/6835/7150	6410/6910/7250
Loading quantity	40'GP/40'HQ	set	1	1	1	1	1	1

Model			CC410MH1HH1	CC510MH2JH2	CC510MH1JH1
Cooling capacity	kW		1758	1934	2110
	RT		500	550	600
Capacity adjustment range	%		10~100	10~100	10~100
EER	W/W		6.37	6.64	6.55
IPLV	W/W		10.75	10.84	11.08
Power supply	Ph/V/Hz		380/3/50	380/3/50	380/3/50
Power input	kW		276	291.2	322.1
RLA	A		423.7	446.9	494.3
Compressor	Type	-	Centrifugal		
	Starting mode	-	Variable Frequency Drives		
	Quantity	-	1	1	1
Refrigerant charge volume	kg		575	600	625
Evaporator	Type	-	Flooded		
	Fouling factor	m ² ·°C/kW	0.018	0.018	0.018
	Water flow rate	L/s	76.47	84.11	91.76
		GPM	1212	1333	1455
	Pressure drop	kPa	50.1	69.3	68.9
		ft.WG	16.4	22.7	22.6
	Connection pipe	-	DN250	DN250	DN250
Condenser	Type	-	Shell and Tube		
	Fouling factor	m ² ·°C/kW	0.044	0.044	0.044
	Water flow rate	L/s	94.12	103	112.50
		GPM	1492	1632	1784
	Pressure drop	kPa	65.9	63.3	62.8
		ft.WG	21.6	20.8	20.6
	Connection pipe	-	DN250	DN250	DN250
Sound pressure level (Max.)	dB(A)		80	80	80
Dimension	Outline(WxDxH)	mm	4250x1850x2150	4250x1910x2210	4250x1910x2210
	Package(WxDxH)	mm	4450x1950x2350	4400x2100x2450	4400x2100x2450
Net/Gross/Operating weight	kg		6400/6900/7250	7604/8104/8550	7720/8220/8650
Loading quantity	40'GP/40'HQ	set	1	1	1

- Notes:
- Above model selection is applicable to the condition in which leaving chilled water temperature is 6.7℃ and entering cooling water temperature is 29.4℃.
 - Standard unit's water side bearing pressure is 1.0MPa; 1.6MPa is an available option.
 - Scale factors of chilled water and cooling water are 0.018m²·℃/kW and 0.044m²·℃/kW respectively.
 - Above water flow is indicated according to ARI 550/590-2015; IPLV is the test value obtained based on the working condition specified in ARI 550/590-2015.
 - For compressor using inverter starter, starting current<rated current; power factor is 0.995.
 - The unit's performance parameters may be changed without prior notice due to product improvement. For the specific parameters, please refer to product nameplate.
 - The product models are not for EU.

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	2.5~8	12~35	3.5~8

Control System Lineup

Product series				Modular chiller			Screw chiller		Centrifugal chiller	Inverter Centrifugal Chiller	Magnetic suspension inverter centrifugal chiller(CC series)
				Split series	Integral series	D series	Air-cooled Screw chiller	Water-cooled screw chiller			
Control system											
Chiller	Wired remote controller	Z16301		●							
		Z12301A			●						
	Display panel	Z26301C				●					
		Z2F3M*1					●				
		Z2G1DJ01*1						●			
		CM27-GZ12/A1(M)							●	●	●
	Touch screen*1	CM18-GM8/A2(M)						○			
		Gree AC Eudemon 2009*3				○	○	○			
Long-distance monitoring software	BMS accessories*2	Communication module	ME30-28/E(M)			○					
Other modules	Optoelectronic isolated converter	RS232-RS422/485				○	○	○			
	Patch board	RS-422/485				○	○	○			
	Optoelectronic isolated signal multiplier	Z103		●	●						

- Notes:
- means standard, ○ means optional.
 - *1 With BMS(modbus) function.
 - *2 BMS interface is equipped.
 - *3 For air-cooled scroll chiller, if long-distance monitoring software Gree Eudemon 2009 is selected, the communication module ME30-28/E(M) shall be selected also. The selection shall refer to actual models.

TERMINAL

Fan Coil Unit
Air Curtain



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 equipped with air return box.



Nominal test condition (temperature)				
Item	DB (°C)	WB (°C)	Inlet (°C)	Outlet (°C)
Cooling	27	19	7	12
Heating	20	—	45	40

2 Rows/Standard Type

Model		FP-34WA/GHL-K	FP-51WA/GHL-K	FP-68WA/GHL-K	FP-85WA/GHL-K	FP-102WA/GHL-K	FP-136WA/GHL-K	FP-170WA/GHL-K	FP-204WA/GHL-K
Air flow volume(H/M/L)		m³/h	370/278/185	570/428/285	720/540/360	870/653/435	1020/765/510	1360/1020/680	1600/1200/800
		CFM	218/163/109	335/251/168	424/318/212	512/384/256	600/450/300	800/600/400	941/706/471
ESP		Pa	0	0	0	0	0	0	0
Capacity	Cooling/Heating	kW	1.75/2.2	2.9/3.4	3.4/4.2	4.3/4.7	4.9/6	6.7/8	7.0/9
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	35	54	66	84	101	150	198
Water system	Water flow volume	l/s	0.08	0.14	0.16	0.21	0.23	0.32	0.48
		kPa	15	36	31	27	42	47	34
	Pressure drop(cooling)	Ft.WG	4.92	11.808	10.168	9.84	19.68	11.48	11.808
Sound pressure level		dB(A)	37	38	40.5	44	46	47	50.5
Dimension (W×D×H)	Outline	mm	680x520x235	800x520x235	900x520x235	1000x520x235	1080x520x235	1380x520x235	1620x520x235
	Package	mm	773x313x615	890x313x615	990x313x615	1090x313x615	1470x313x615	1605x313x615	1710x313x615
Net weight/Gross weight		kg	14.5/19.2	17/21.9	18.9/24	20.8/26.2	21.9/27.5	31.5/37.5	34.1/41.6
Connection pipe diameter	Water inlet & outlet (inner groove)	inch(mm)	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
	Condensed water drain (outer groove)	inch(mm)	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Loading quantity		set	318/424	273/364	255/340	225/300	210/280	168/224	135/204
Optional		Wired remote control	-						

Note: This parameter is obtained based on the test standard of Eurovent and under 0Pa static pressure with circle bellows & filter.

2 Rows/High ESP Type

Model		FP-34WAH/GHL-K	FP-51WAH/GHL-K	FP-68WAH/GHL-K	FP-85WAH/GHL-K	FP-102WAH/GHL-K	FP-136WAH/GHL-K	FP-170WAH/GHL-K	FP-204WAH/GHL-K
Air flow volume(H/M/L)		m³/h	450/338/225	570/428/225	750/563/375	930/698/465	1100/825/550	1400/1050/700	1700/1275/850
		CFM	265/119/132	347/251/168	440/330/221	547/410/274	647/458/324	824/618/412	1000/750/500
ESP		Pa	0	0	0	0	0	0	0
Capacity	Cooling/Heating	kW	2/2.3	3.1/3.5	3.5/4.5	4.5/4.9	5.2/6.3	6.9/8.2	7.2/9.2
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	48	57	72	90	111	152	222
Water system	Water flow volume	l/s	0.10	0.15	0.17	0.22	0.25	0.33	0.49
		kPa	18	41	32	30	37	47	34
	Pressure drop(cooling)	Ft.WG	4.92	9.84	7.544	9.84	11.48	8.2	11.808
Sound pressure level		dB(A)	39	39	41	46	49	48	52
Dimension (W×D×H)	Outline	mm	680x520x235	800x520x235	900x520x235	1000x520x235	1080x520x235	1380x520x235	1520x520x235
	Package	mm	773x313x615	890x313x615	990x313x615	1090x313x615	1170x313x615	1470x313x615	1605x313x615
Net weight/Gross weight		kg	14.5/19.2	17/21.9	18.9/24	20.8/26.2	21.9/27.5	31.5/37.5	34.1/41.6
Connection pipe diameter	Water inlet & outlet (inner groove)	inch(mm)	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
	Condensed water drain (outer groove)	inch(mm)	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Loading quantity		set	318/424	273/364	255/340	225/300	210/280	168/224	135/204
Optional		Wired remote control	-						

Note: This parameter is obtained based on the test standard of Eurovent and under 0Pa static pressure with circle bellows & filter.

3 Rows

Model		FP-34WAS/GHL-K	FP-51WAS/GHL-K	FP-68WAS/GHL-K	FP-85WAS/GHL-K	FP-102WAS/GHL-K	FP-136WAS/GHL-K	FP-170WAS/GHL-K	FP-204WAS/GHL-K
Air flow volume(H/M/L)		m³/h	370/278/185	570/428/285	720/540/60	870/653/435	1020/765/510	1360/1020/680	1600/1200/800
		CFM	218/163/109	335/251/168	424/318/212	512/384/256	600/450/300	800/600/400	941/706/470
ESP		Pa	0	0	0	0	0	0	0
Capacity	Cooling/Heating	kW	2.1/2.4	3.2/3.7	4.1/4.8	4.8/5.5	5.9/6.6	7.6/8.9	8.8/10.2
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	35	58	66	78	102	161	192
Water system	Water flow volume	l/s	0.10	0.15	0.20	0.23	0.28	0.36	0.50
		kPa	20	27	25	35	45	44	32
	Pressure drop(cooling)	Ft.WG	6.56	6.888	7.216	11.48	19.68	9.84	10.824
Sound pressure level		dB(A)	37	39	40.5	44	48	47	50.5
Dimension (W×D×H)	Outline	mm	680x520x235	800x520x235	900x520x235	1000x520x235	1080x520x235	1380x520x235	1520x520x235
	Package	mm	773x313x615	890x313x615	990x313x615	1090x313x615	1170x313x615	1470x313x615	1605x313x615
Net weight/Gross weight		kg	14.9/19.6	17.4/22.3	19.3/24.4	21.3/26.7	22.7/28.3	30.9/36.9	34.5/42
Connection pipe diameter	Water inlet & outlet (inner groove)	inch(mm)	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
	Condensed water drain (outer groove)	inch(mm)	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Loading quantity		set	318/424	273/364	255/340	225/300	210/280	168/224	135/204
Optional		Wired remote control	-						

Note: This parameter is obtained based on the test standard of Eurovent and under 0Pa static pressure with circle bellows & filter.

3+1 Rows

Model			FP-34WAHT/BHL-K	FP-51WAHT/BHL-K	FP-68WAHT/BHL-K	FP-85WAHT/BHL-K	FP-102WAHT/BHL-K	FP-138WAHT/BHL-K	FP-170WAHT/BHL-K	FP-204WAHT/BHL-K
Air flow volume(H/M/L)		m³/h	430/323/215	640/480/320	740/555/370	910/683/455	1040/780/520	1600/1200/800	1980/1485/990	2100/1575/1050
		CFM	253/190/126	376/282/188	435/326/218	535/401/268	612/459/306	941/706/471	1165/874/582	1235/926/618
ESP		Pa	0	0	0	0	0	0	0	0
Capacity	Cooling/Heating	kW	2.45/3.4	3.7/4.7	4.55/5.7	5.4/6.35	6.35/7.55	8.30/9.90	10.0/11.5	10.2/11.9
	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
Power system	Input	W	45	66	71	90	113	169	186	216
	Water flow volume	l/s	0.12	0.18	0.22	0.26	0.30	0.40	0.48	0.49
Water system	Pressure drop(cooling)	kPa	8	15	24	35	56	17	32	31
		Ft.WG	2.30	4.92	7.87	11.48	18.37	5.58	10.50	10.17
Sound pressure level		dB(A)	40	42	44	46	47	48	50	52
Dimension (W×D×H)	Outline	mm	881x510x245	1011x510x245	1131x510x245	1211x510x245	1371x510x245	1761x510x245	1921x510x245	1921x510x245
	Package	mm	900x275x610	1030x275x610	1150x275x610	1230x275x610	1390x275x610	1780x275x610	1940x275x610	1940x275x610
Net weight/Gross weight		kg	19/22.5	22.5/27	25/29.5	27/31.5	30.5/35	43.5/48.5	47/53	47/53
Connection pipe diameter	Water inlet & outlet (inner groove)	inch(mm)	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
	Condensed water drain (outer groove)	inch(mm)	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Loading quantity 40'GP/40'HQ		set	321/428	270/360	252/336	271/317	198/264	156/208	144/192	144/192
Optional		Wired remote control	-	Luxury wired controller:WK-010PA-K/LCD controller:WK-110PA0						

Note: This parameter is obtained based on the test standard of Eurovent and under 0Pa static pressure with circle bellows & filter.

4 Rows

Model			FP-34WAHF/BHL-K	FP-51WAHF/BHL-K	FP-68WAHF/BHL-K	FP-85WAHF/BHL-K	FP-102WAHF/BHL-K	FP-138WAHF/BHL-K	FP-170WAHF/BHL-K	FP-204WAHF/BHL-K
Air flow volume(H/M/L)		m³/h	430/323/215	640/480/320	740/555/370	870/653/435	1040/780/520	1600/1200/800	1980/1485/990	2100/1575/1050
		CFM	253/190/126	376/282/188	435/326/218	512/384/256	612/459/306	941/706/471	1165/874/582	1235/926/618
ESP		Pa	0	0	0	0	0	0	0	0
Capacity	Cooling/Heating	kW	2.65/3.10	3.80/4.40	5.00/5.45	5.7/6.15	7.10/7.30	8.90/9.50	11.00/12.3	11.20/13
	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
Power system	Input	W	45	66	71	84	113	169	186	216
	Water flow volume	l/s	0.13	0.18	0.24	0.27	0.34	0.43	0.53	0.54
Water system	Pressure drop(cooling)	kPa	8	9	18	21	41	21	32	34
		Ft.WG	1.64	2.95	5.90	6.89	13.45	6.89	10.50	11.15
Sound pressure level		dB(A)	40	42	44	46	47	48	50	52
Dimension (W×D×H)	Outline	mm	881x510x245	1011x510x245	1131x510x245	1211x510x245	900x275x610	1030x275x610	1150x275x610	1230x275x610
	Package	mm	1371x510x245	1761x510x245	1921x510x245	1921x510x245	1390x275x610	1780x275x610	1940x275x610	1940x275x610
Net weight/Gross weight		kg	19/22.5	22.5/27	25/29.5	27/31.5	30.5/35	43.5/48.5	47/53	47/53
Connection pipe diameter	Water inlet & outlet (inner groove)	inch(mm)	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
	Condensed water drain (outer groove)	inch(mm)	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Loading quantity 40'GP/40'HQ		set	321/428	270/360	252/336	271/317	198/264	156/208	144/192	144/192
Optional		Wired remote control	-	Luxury wired controller:WK-010PA-K/LCD controller:WK-110PA0						

Note: This parameter is obtained based on the test standard of Eurovent and under 0Pa static pressure with circle bellows & filter.

Fan Coil Unit

Cassette Type



Quiet function



Multi fan speed



Compact design



Self-diagnosis



Inner groove copper



Built-in drain pump



Washable filter



Anti-cold function

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



Nominal test condition (temperature)				
Item	DB (°C)	WB (°C)	Inlet (°C)	Outlet (°C)
Cooling	27	19	7	12
Heating	20	—	45	40

2-pipe & 4-way

Model			FP-51XD/A-K	FP-68XD/A-K	FP-85XD/B-T (E)	FP-102XD/B-T (E)	FP-125XD/B-T (E)
Air flow volume(H/M/L)		m³/h	510	680	800/665/590	940/770/670	1090/860
		CFM	300	400	470/385/347	553/453/394	641/506/447
Capacity	Cooling/Heating	kW	2.75/3.4	3.6/4.2	4.5/5.4	5.0/6.1	6.0/6.9
	Type	Ph/V/Hz	1/220~240/50	1/220~240/50	1/220~240/50	1/220~240/50	1/220~240/50
Power System	Input	W	73	73	81	110	100.00
	Water flow volume	l/s	0.13	0.18	0.22	0.24	0.29
Water System	Power System	kPa	15	28	27	34	21.00
		Ft.WG	4.92	9.18	8.86	11.15	6.89
Sound prssure level		dB(A)	46	46	39	49	43.00
Body	Dimension (WxDxH)	Outline	mm	664x594x292	664x594x292	840x840x190	840x840x240
		Package	mm	776x730x285	776x730x285	960x960x257	960x960x310
	Net weight/Gross weight		kg	20/24	20/24	25/33	27/35
Panel	Dimension (WxDxH)	Outline	mm	670x670x25	670x670x25	950x950x85	950x950x85
		Package	mm	670x670x60	670x670x60	1030x1030x118	1030x1030x118
	Net weight/Gross weight		kg	7/11	7/11	7/11	7/11
Connetion pipe size	Water inlet & outlet	inch(mm)	3/4'	3/4'	3/4'	3/4'	3/4'
	Condensed water drain	inch(mm)	25mm	25mm	33	33	33.00
Loading quantity 40'GP/40'HQ		set	329/376	329/376	131/147	131/147	117/133
Standard controller		Wiredless remote	-	YB1FA (X-FAN)	YB1FA (X-FAN)	YB1FA (X-FAN)	YB1FA (X-FAN)
Optional controller		Wired remote	-	Z4E351B	Z4E351B	Z4E351B	Z4E351B

Model			FP-140XD/B-T (E)	FP-160XD/B-T (E)	FP-180XD/B-T (E)	FP-200XD/D-K(E)
Air flow volume(H/M/L)		m³/h	1400/1160/1000	1500/1200/1000	1640/1360/1200	1700/1430/1150
		CFM	823/682/588	882/706/588	964/800/706	1000/841/676
Capacity	Cooling/Heating	kW	7.4/8.4	8.4/9.0	9.5/10.05	11.1/11.7
	Type	Ph/V/Hz	1/220~240/50	1/220~240/50	1/220~240/50	1/220~240/50
Power System	Input	W	143	152	160	140
	Water flow volume	l/s	0.35	0.40	0.45	0.53
Water System	Power System	kPa	30	30	33	25
		Ft.WG	9.84	9.84	10.82	8.20
Sound prssure level		dB(A)	50	51	50	55
Body	Dimension (WxDxH)	Outline	mm	840x840x240	840x840x240	840x840x320
		Package	mm	960x960x310	960x960x310	960x960x394
	Net weight/Gross weight		kg	27/35	27/35	32/41
Panel	Dimension (WxDxH)	Outline	mm	950x950x85	950x950x85	950x950x85
		Package	mm	1030x1030x118	1030x1030x118	1030x1030x118
	Net weight/Gross weight		kg	7/11	7/11	7/11
Connetion pipe size	Water inlet & outlet	inch(mm)	3/4'	3/4'	3/4'	3/4'
	Condensed water drain	inch(mm)	33	33	33	33
Loading quantity 40'GP/40'HQ		set	117/133	117/133	98/112	98/112
Standard controller		Wiredless remote	-	YB1FA (X-FAN)	YB1FA(X-FAN)	YB1FA(X-FAN)
Optional controller		Wired remote	-	Z4E351B	Z4E351B	Z4E351B

Fan Coil Unit

Floor Ceiling Type



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

- Thanks to optimized air duct 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.



Floor Ceiling Type

Model			FP-34ZD-K (E)	FP-51ZD-K (E)	FP-68ZD-K (E)	FP-85ZD-K (E)	FP-102ZD-K (E)	FP-136ZD-K (E)	FP-170ZD-K (E)	FP-204ZD-K (E)	
Air flow volume(H/M/L)			m³/h	400/300/210	510/400/310	680/550/450	690/570/485	910/756/600	1030/854/700	1800/1260/850	1940/1500/1050
			CFM	235/176/124	300/235/182	400/324/265	406/335/285	535/445/353	606/502/412	1059/741/500	1141/882/618
Capacity	Cooling	kW	1.9	2.8	3.5	3.6	5.2	6.35	8.9	9.9	
	Heating	kW	2.4	3.4	4.1	4.2	6	6.7	10.8	12.2	
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	46	65	76	84	95	96	152	200	
Water System	Water flow volume	l/s	0.09	0.13	0.17	0.17	0.25	0.30	0.43	0.47	
	Pressure drop(cooling)	kPa	20	20	32	16	80	99	115	100	
		Ft.WG	6.56	6.56	10.50	5.25	26.24	32.47	37.72	32.80	
Sound prssure level		dB(A)	37	38	45	47	49	48	50	55	
Dimension (WxDxH)	Outline	mm	834X238X694	834X238X694	834X238X694	834X238X694	1300X188X60	1300X188X60	238X288X695	238X288X695	
	Package	mm	963X333X845	963X333X845	963X333X845	963X333X845	1417X251X739	1417X251X739	1771X333X845	1771X333X845	
Net weight/Gross weight		kg	26/33	26/33	26/33	26/33	34/40	34/40	48.5/57	48.5/57	
Connction pipe diameter	Water inlet & outlet	inch(mm)	3/4"(19.05)	3/4"(19.05)	3/4"(19.05)	3/4"(19.05)	3/4"(19.05)	3/4"(19.05)	3/4"(19.05)	3/4"(19.05)	
	Condensed water drain	inch(mm)	5/8"(15.6)	5/8"(15.6)	5/8"(15.6)	5/8"(15.6)	5/8"(15.6)	5/8"(15.6)	5/8"(15.6)	5/8"(15.6)	
Loading quantity	40"GP/40"HQ	set	224/267	224/267	224/267	224/267	220/244	220/244	111/117	111/117	
Standard controller	Wireless remote	-	YB1FA	YB1FA	YB1FA	YB1FA	YB1FA	YB1FA	YB1FA	YB1FA	
Optional controller	Wired remote	-	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.



Wall-mounted Type

Model			FP-34BA2/D-K (E)	FP-51BA2/D-K (E)	FP-68BA2/D-K (E)	FP-85BA2/D-K (E)	FP-34BB3/A-K(E)	FP-51BB3/A-K(E)
Air flow volume(H/M/L)			m³/h	360/320/280	550/410/360	680/590/530	850/700/600	360/320/290
			CFM	212/189/166	324/243/216	400/348/311	500/411/352	212/189/166
Capacity	Cooling	kW	2	2.5	3.6	4	1.8	2.4
	Heating	kW	2.3	2.8	4.1	4.5	2.3	2.6
Power System	Type	Ph/V/Hz	1/220~240/50	1/220~240/50	1/220~240/50	1/220~240/50	1/220~240/50	1/220~240/50
	Input	W	50	50	60	66	36	42
Water System	Water flow volume	l/s	0.10	0.12	0.17	0.19	0.09	0.11
	Power System	kPa	18	25	52	60	18	25
Sound prssure level	Pressure drop	Ft.WG	5.90	8.20	17.06	19.68	5.90	8.20
		dB(A)	35	40	43	48	35	40
Dimension (WxDxH)	Outline	mm	845x180x275	845x180x275	940x200x298	940x200x298	845x180x275	845x180x275
	Pressure drop	mm	915x255x355	915x255x355	1010x285x380	1010x285x380	915x255x355	915x255x355
Net weight/Gross weight		kg	10/12.5	10/12.5	12/16	13/17	10/12.5	10/12.5
Connction pipe diameter	Water inlet & outlet	inch(mm)	Φ1/2(12.7)	Φ1/2(12.7)	Φ1/2(12.7)	Φ1/2(12.7)	Φ1/2(12.7)	Φ1/2(12.7)
	Condensed water drain	inch(mm)	Φ5/8(15.6)	Φ5/8(15.6)	Φ5/8(15.6)	Φ5/8(15.6)	Φ5/8(15.6)	Φ5/8(15.6)
Loading quantity	40"GP/40"HQ	set	765/850	765/850	595/671	595/671	765/850	765/850
Standard controller	Wireless remote	-	YB1FA(XFAN)	YB1FA(XFAN)	YB1FA(XFAN)	YB1FA(XFAN)	YB1FA(XFAN)	YB1FA(XFAN)
Optional controller	Wired remote	-	Z4E351B	Z4E351B	Z4E351B	Z4E351B	Z4E351B	Z4E351B

Model			FP-68BB3/A-K(E)	FP-85BB3/A-K(E)	FP-34BA3/B-K	FP-51BA3/B-K	FP-68BA3/B-K	FP-85BA3/B-K	
Air flow volume(H/M/L)			m³/h	680/600/530	850/708/616	360/322/282	510/413/367	680/591/532	830/708/616
			CFM	400/324/282	500/417/363	212/189/166	300/243/216	400/348/313	488/417/363
Capacity	Cooling	kW	3.5	4.6	1.85	2.65	3.5	4.55	
	Heating	kW	3.7	4.9	2.45	3.05	3.85	4.8	
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	51	65	30	30	40	60	
Water System	Water flow volume	l/s	0.17	0.22	0.09	0.13	0.17	0.22	
	Power System	kPa	52	62	13	25	40	65	
		Ft.WG	17.05	20.33	4.26	8.20	13.11	21.31	
Sound prssure level		dB(A)	43	48	35	40	43	48	
Dimension (WxDxH)	Outline	mm	940x200x298	940x200x298	845x180x275	845x180x275	940x200x298	940x200x298	
	Pressure drop	mm	1010x285x380	1010x285x380	915x255x355	915x255x355	1010x285x380	1010x285x380	
Net weight/Gross weight		kg	12/16.0	12/16.0	8.8/11.8	8.8/11.8	10.8/14.8	10.8/14.8	
pipe diameter	Water inlet & outlet	inch(mm)	Φ1/2(12.7)	Φ1/2(12.7)	Φ1/2(12.7)	Φ1/2(12.7)	Φ1/2(12.7)	Φ1/2(12.7)	
	Condensed water drain	inch(mm)	Φ5/8(15.6)	Φ5/8(15.6)	Φ5/8(15.6)	Φ5/8(15.6)	Φ5/8(15.6)	Φ5/8(15.6)	
Loading quantity	40"GP/40"HQ	set	595/671	595/671	765/850	765/850	595/671	595/671	
Standard controller	Wireless remote	-	YB1FA(XFAN)	YB1FA(XFAN)	YB1FA(XFAN)	YB1FA(XFAN)	YB1FA(XFAN)	YB1FA(XFAN)	
Optional controller	Wired remote	-	Z4E351B	Z4E351B	Z4E351B	Z4E351B	Z4E351B	Z4E351B	

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.



Item	Working condition parameters
Dry bulb temperature of inlet air °C	5~40

Model			FM-1.25-9-K	FM-1.25-12-K
Power supply		V/Hz	220-230/50	220-230/50
Power input		W	110	140
Air flow volume		m³/h	1200	1650
Sound pressure level (H/L)		dB (A)	59	61
Dimension (W×D×H)	Outline	mm	900x215x193	1200x215x193
	Package	mm	1015x270x256	1315x270x256
Net weight /Gross weight		kg	16/18	20/22
Loading quantity	40'GP	set	848	660
	40'HQ	set	954	746
Setting height		m	2.3~3	2.3~3
Standard	Wired remote controller		ZY611	ZY611

Note: Gree reserves the right to modify the specifications without prior notice. Please confirm the final specifications with sales representatives.

Control System Lineup

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

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

SPECIALIZED AC

Marine Air Conditioner
Close Control Air Conditioner
Elevator Air Conditioner



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



Golden fin
condenser



Inner groove
copper



Washable
filter



Quiet function



Self-diagnosis



Memory
function



Compact design



°C/°F Switch

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



Model	Heat Pump		CYR5/NaC-T		CYR9/NaC-T		CYR12/Na-T	
Capacity	Cooling	kW	1.10	1.30	2.10	2.35	3.10	3.50
		Btu/h	3700	4400	7100	8000	10500	11900
	Heating	kW	1.40	1.50	2.20	2.45	3.20	3.60
		Btu/h	4800	5100	7500	8400	10900	12200
EER/COP		W/W	1.96/2.64	2.24/2.73	2.33/2.50	2.55/2.85	2.82/2.91	2.92/3.27
Power supply		V/Ph/Hz	220-240/1/50	230/1/60	220-240/1/50	230/1/60	220-240/1/50	230/1/60
Power input	Cooling	kW	0.56	0.58	0.90	0.92	1.10	1.20
	Heating	kW	0.53	0.55	0.88	0.86	1.10	1.10
Input current	Cooling	A	3.50	2.70	4.90	4.00	6.10	5.30
	Heating	A	3.40	2.50	4.80	3.90	6.00	4.90
Sound pressure level		dB(A)	58	58	58	58	58	58
Refrigerant charge volume		kg	0.32	0.32	0.34	0.34	0.53	0.53
Air flow volume (H)		CFM	188	188	265	265	274	324
		m³/h	320	320	450	450	466	550
Dimension (WxDxH)	Outline	mm	285x408x295	285x408x295	380x408x310	380x408x310	380x440x330	380x440x330
	Package	mm	594x493x360	594x493x360	683x513x360	683x513x360	608x533x395	608x533x395
Net weight/Gross weight		kg	25.5/30.0	25.5/30.0	28.0/33.0	28.0/33.0	33.0/38.0	33.0/38.0
Condenser pipe diameter		mm	22.2	22.2	22.2	22.2	22.2	22.2
Loading quantity	40"GP	set	528	528	444	444	410	410
	40"HQ	set	616	616	518	518	492	492
Fan motor supply air outlet diameter		inch(mm)	3.6(91.5)	3.6(91.5)	3.6(91.5)	3.6(91.5)	4.7(119.4)	4.7(119.4)

Model	Heat Pump		CYR16/Na-T		CYR24/NaC-T	
Capacity	Cooling	kW	3.20	3.50	6.40	7.50
		Btu/h	10900	11900	21800	25600
	Heating	kW	4.00	4.40	6.65	7.60
		Btu/h	13600	15000	22700	25900
EER/COP		W/W	2.67/3.08	2.41/2.93	4.41/3.80	4.17/3.62
Power supply		V/Ph/Hz	220-240/1/50	230/1/60	220-240/1/50	230/1/60
Power input	Cooling	kW	1.20	1.45	1.45	1.80
	Heating	kW	1.30	1.50	1.75	2.10
Input current	Cooling	A	6.00	6.20	6.80	8.00
	Heating	A	6.10	6.30	8.20	9.30
Sound pressure level		dB(A)	62	62	60	60
Refrigerant charge volume		kg	0.46	0.46	0.95	0.95
Air flow volume (H)		CFM	348	406	560	650
		m³/h	590	690	951	1104
Dimension (W×D×H)	Outline	mm	450x465x330	450x465x330	620x540x385	620x540x385
	Package	mm	663x558x395	663x558x395	853x638x440	853x638x440
Net weight/Gross weight		kg	37.5/43.5	37.5/43.5	60.5/68.0	60.5/68.0
Condenser pipe diameter		mm	25.4	25.4	25.4	25.4
Loading quantity	40'GP	set	350	350	225	225
	40'HQ	set	420	420	270	270
Fan motor supply air outlet diameter		inch(mm)	4.7(119.4)	4.7(119.4)	4.7(119.4)	4.7(119.4)



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.



- Rapid and safe start-up.
- Flexible installation and 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		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				
	24℃/17℃		kW			27.0/24.3				
	24℃/45%		kW			28.8/24.0				
	26℃/50%		kW			27.6/24.5				
Rated input	Cooling/Heating		kW		11.2/12.8	11.2/13.8	11.2/13.8	16.5/21.0		
Rated current	Cooling/Heating		A		17.02/19.45	17.02/20.97	17.02/20.97	24.24/31.82		
Heating capacity			kW		11	12	12	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	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		m³/h		5220	7500	7500	13000	12500	12500
	Sound pressure level		dB(A)		62.5	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/Na-A-M(O)	JKFD13/Na-A-M(O)	JKFD13/Na-A-M(O)	JKFD19/Na-A-M(O)	JKFD19/Na-A-M(O)	JKFD19/Na-A-M(O)		
	Quantity		Set		2		2			
	Air flow volume		m³/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		89/115		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°C; Wet-bulb temperature was 24°C.
2. The noise value was tested in the semi-anechoic chamber but the actual value will be a little higher for the change of ambient temperature.
3. The temperature range of running environment is between -35°C~48°C.

Class	Item		Model Unit	JKFD5CR/Na-E	JKFD5QSR/Na-E	JKFD7CR/Na-M	JKFD7QSR/Na-M
Characteristics of Units	Total Cooling Capacity / Sensible Cooling Capacity (22 C / 50%)		kW	5.3/4.8		6.8/5.8	
	Total Cooling Capacity / Sensible Cooling Capacity (24 C/17 C)		kW	5.5/5.1		7.2/6.5	
	Total Cooling Capacity / Sensible Cooling Capacity (24 C/45%)		kW	5.4/4.9		7.0/6.3	
	Total Cooling Capacity / Sensible Cooling Capacity (26 C/50%)		kW	5.7/5.2		7.3/6.6	
	Heating Capacity		kW	2.7		2.7	
	Rated Humidifying Capacity		kg/h	2		4	
	Air Flow Volume		m³/h	1900	1900	1950	1950
	External Static Pressure		pa	0	15	0	15
	Acoustic Noise of Indoor Units		dB(A)	58	56	63	55
	Range of Temp. Controlling and Precision			17 ~ 28 C ±1 C		17 ~ 28 C ±1 C	
	Range of Humidity and Precision			40 ~ 60%±5%		40 ~ 60%±5%	
	Power Supply			220V ~ 50Hz		380V 3N ~ 50Hz	
Cooling System	Compressor		Type	Hermetic Scroll Type		Hermetic Scroll Type	
	Evaporator		Type	Inner Screw Thread Pipe with Hydrophilic Film Aluminum Fin		Inner Screw Thread Pipe with Hydrophilic Film Aluminum Fin	
	Condenser		Type	Inner Screw Thread Pipe with Hydrophilic Film Aluminum Fin		Inner Screw Thread Pipe with Hydrophilic Film Aluminum Fin	
	Refrigerant			R410A		R410A	
	Throttling Method			Electric Expansion Valve		Electric Expansion Valve	
Air Supply System	Indoor Units	Fan	Type	Low Noise and Centrifugal External-rotor		Low Noise and Centrifugal External-rotor	
			Type of Drive	Direct Drive		Direct Drive	
		Air Filter	Type	Plate Filter (G4)		Plate Filter (G4)	
Heating System	Heater	Type	Electric Heating		Electric Heating		
Humidifying System	Humidifier	Type	infrared		infrared		
		Mode of Control	Automatic Control by Mainboard		Automatic Control by Mainboard		
Evaporator	The Model of Indoor Units			JKFD5CR/Na-E(I)	JKFD5QSR/Na-E(I)	JKFD7CR/Na-M(I)	JKFD7QSR/Na-M(I)
	Dimension	Width	mm	800	800	800	800
		Depth	mm	700	700	700	700
		Height	mm	2250	1950	2250	1950
	Net Weight		kg	257	237	257	237
Outdoor Units	The Model of Outdoor Units			JKFD5P/Na-E(O)		JKFD7P/Na-E(O)	
	Quantity		set	1		1	
	Condensate Fan	Type	Low Noise Axial Type		Low Noise Axial Type		
		Type of Drive		Direct Drive		Direct Drive	
	Acoustic Noise of Outdoor Units		dB(A)	60		60	
	Dimension	Width	mm	900		900	
		Depth	mm	412		412	
		Height	mm	1350		1350	
	Net Weight		kg	71		71	
Connecting Pipe	Liquid Line of Refrigerants		mm×(unit)	Φ9.52×1		Φ9.52×1	
	Gas Pipe of Refrigerants		mm×(unit)	Φ12×1		Φ12×1	
	Method of Connection			Flared Joint		Flared Joint	

Notes:

- 1.This unit is designed, manufactured and inspected according to National Standard GB/T 19413-2010.
2. Tested ambient temperature of cooling capacity: indoor side dry bulb temp. 24℃, web bulb temp.17℃, outdoor side dry bulb temp. 35℃.
3. Noise was measured according to relevant standard of half-anechoic room, so in actual operation, noise may increase as ambient temperature changes.
4. Specific parameters shall be referred to unit nameplate and subject to change without prior notice.
- 5.Ambient temperature range for operation: -35℃~48℃
6. All the above models can realize modular operation.
7. Any other special requirements, please contact us.



Class	Item		Model	JKFD15CR/Na-M	JKFD15QSR/Na-M	JKFD20CR/Na-M	JKFD20QSR/Na-M
Characteristics of Units	Total Cooling Capacity / Sensible Cooling Capacity (22 C / 50%)		kW	14.8/13.5		19.0/18.0	
	Total Cooling Capacity / Sensible Cooling Capacity (24 C /17 C)		kW	15.0/13.6		20.0/18.4	
	Total Cooling Capacity / Sensible Cooling Capacity (24 C /45%)		kW	14.9/13.8		19.8/18.8	
	Total Cooling Capacity / Sensible Cooling Capacity (26 C /50%)		kW	16.6/15.0		21.3/19.9	
	Heating Capacity		kW	7		10	
	Rated Humidifying Capacity		kg/h	4		4	
	Air Flow Volume		m3/h	3700	4800	4150	6000
	External Static Pressure		Pa	0	75	0	75
	Acoustic Noise of Indoor Units		dB(A)	64	62	63	61
	Range of Temp. Controlling and Precision			17 ~ 28 C ±1 C		17 ~ 28 C ±1 C	
	Range of Humidity and Precision			40 ~ 60%±5%		40 ~ 60%±5%	
	Power Supply			380V 3N ~ 50Hz		380V 3N ~ 50Hz	
Cooling System	Compressor		Type	Hermetic Scroll Type		Hermetic Scroll Type	
	Evaporator		Type	Inner Screw Thread Pipe with Hyrophilic Film Aluminum Fin		Inner Screw Thread Pipe with Hyrophilic Film Aluminum Fin	
	Condenser		Type	Inner Screw Thread Pipe with Hyrophilic Film Aluminum Fin		Inner Screw Thread Pipe with Hyrophilic Film Aluminum Fin	
	Refrigerant			R410A		R410A	
	Throttling Method			Electric Expansion Valve		Electric Expansion Valve	
Air Supply System	Indoor Units	Fan	Type	Low Noise and Centrifugal External-rotor		Low Noise and Centrifugal External-rotor	
			Type of Drive	Direct Drive		Direct Drive	
		Air Filter	Type	Plate Filter (G4)		Plate Filter (G4)	
Heating System	Heater	Type		Electric Heating		Electric Heating	
Humidifying System	Humidifier	Type		infrared		infrared	
		Mode of Control		Automatic Control by Mainboard		Automatic Control by Mainboard	
Evaporator	The Model of Indoor Units			JKFD15CR/Na-M(I)	JKFD15QSR/Na-M(I)	JKFD20CR/Na-M(I)	JKFD20SR/Na-M(I)
	Dimension	Width	mm	980	980	980	980
		Depth	mm	950	950	950	950
		Height	mm	2250	1950	2250	1950
	Net Weight		kg	380	348	400	360
Outdoor Units	The Model of Outdoor Units			JKFD15P/Na-M(O)		JKFD20P/Na-M(O)	
	Quantity		set	1		1	
	Condensate Fan	Type		Low Noise Axial Type		Low Noise Axial Type	
		Type of Drive		Direct Drive		Direct Drive	
	Acoustic Noise of Outdoor Units		dB(A)	64		64	
	Dimension	Width	mm	1400		1400	
		Depth	mm	715		715	
		Height	mm	1130		1130	
	Net Weight		kg	136		136	
	Liquid Line of Refrigerants		mm×(unit)	Φ12×1		Φ16×1	
Connecting Pipe	Gas Pipe of Refrigerants		mm×(unit)	Φ16×1		Φ19×1	
	Method of Connection			Flared Joint		Flared Joint	

- Notes:
- 1.This unit is designed, manufactured and inspected according to National Standard GB/T 19413-2010.
 2. Tested ambient temperature of cooling capacity: indoor side dry bulb temp. 24 C , web bulb temp.17 C , outdoor side dry bulb temp.35 C .
 3. Noise was measured according to relavant standard of half-anechoic room, so in actual operation, noise may increase as ambient temperature changes.
 4. Specific parameters shall be referred to unit nameplate and subject to change without prior notice.
 - 5.Ambient temperature range for operation:: -35 C ~48 C
 6. All the above models can realize modular operation.
 7. Any other special requirements, please contact us..

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.



2~3kW



YB1FA



Inner groove copper



Washable filter



Quality motor



High efficiency



Energy saving function



Fresh air supply ventilation



Low voltage startup



Wide voltage startup

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

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

Model			GDT25	GDT35
Capacity	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)		m³/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

Note: Elevator AC is not fit for selling to the regions under the requirement of any certifications or energy efficiency. Gree reserves the right to modify the specifications without prior notice. Please confirm the final specifications with sales representatives.

Reference Projects



Mordovia Arena
Water-cooled Screw Chiller; Fan Coils
Russia



Sochi More-Mall
Centrifugal Chiller
Russia



Mir Kino Cinema
Duct
Russia



Expo 2015
GMV4; GMV5
Italy



Wymondham Leisure Centre
GMV5 Heat Recovery
UK



Buha
Versati
Serbia



Sketch
GMV5; U-match Split Systems
UK



Trattoria Restaurant
U-Match; Duct
France

Reference Projects Lineup

Country	Project Name	Installed Series
Philippine	Tosot Philippines Corporation	GMV5 PV
Iran	Tehran University	PV Inverter Centrifugal Chiller
Macedonia	Nikob Cash Center Skopje	GMV5 PV
Thailand	7-11 Store	GMV5 PV
Italy	Expo 2015	GMV4; GMV5
Brazil	2016 Rio de Janeiro Olympics Games	GMV4; GMV4 Mini; Free Match; Splits
Bulgaria	G. Asparuhov Stadium	GMV 4; Cassette IDU
Russia	Mordovia Arena	Water-cooled Screw Chiller; Fan Coils
Malawi	National Stadium	GMV5 Duct System
South Africa	Soccer City-Soccer Stadium of 2010 FIFA	Water-cooled Packaged Unit
Angola	FNB Stadium-Main Stadium of 2010 Africa Cup of Nations	Digital D4 (Modular Digital VRF); Duct Split Unit
Russia	Sochi More-Mall	Centrifugal Chiller
India	Bicon Headquarter Building	Water-cooled Screw Chiller; Air-cooled Screw Chiller
France	Trattoria Restaurant	U-Match; Duct
UK	Wymondham Leisure Centre	GMV5 Heat Recovery
UK	Sketch	GMV5; U-match Split Systems
Russia	Mir Kino Cinema	Duct
Myanmar	Grand Hantha International Hospital	Inverter Centrifugal Chiller; AHU; Fan Coil
Sudan	Ministry of Finance	GMV5
Cuba	CECMED National Pharmacy Laboratory	Water-cooled Screw Chiller; Hydronic Air Handling Unit; Fan Coil Unit
Malta	ST James Hospital	Air-cooled Scroll Chiller (C Series); Mini Chiller
Bulgaria	Sliven Town Library	Air-cooled Scroll Chiller
Senegal	Grande Mosquee De Touba	Water-cooled Package Unit
Brazil	Farroupilha Porto Alegre School	GMV4
UK	Richmond upon Thames College	GMV5
Russia	Uralzheldorproekt Institute	GMV
Sudan	National University Sudan	GMV4 DC Inverter
Serbia	Student Dormitory in Novi Sad	Modular Air-cooled Screw Chiller
Panama	Panama De Universidad Technology	DC Inverter GMV
Bahrain	IBN School	Rooftop Package Unit
Cyprus	Lancashire University	DC Inverter GMV
UK	Persimmon Homes HQ	GMV5 Heat Recovery
Russia	AVM-Orsetto Business Center	GMV
Indonesia	Oppo and J &T Office Tower-Landmark Pulit	GMV5 Duct System; GMV5 Fresh Air System; AC Elevator; Air Curtain
Indonesia	Satoria Tower	GMV5; GMV5 Duct Type; Split Wall Mounted
Oman	Al Habsi	GMV5
Oman	Raha Towers	GMV5 Compact
Bahrain	Millennium Tower	Fan Coil Unit
Oman	Trading Building	Air Cooled Screw Chiller
Costarica	Ins Call Center	DC Inverter GMV
Russia	Green Park Commercial Center	DC Inverter GMV
Croatia	FINA Rijeka	Air-cooled Scroll Chiller (C Series)
Lebanon	CUBIC Commercial Center	GMV5
Palestine	Ministry of Foreign Affairs	DC Inverter GMV
Pakistan	Al Tijara Building	DC Inverter GMV
Serbia	Buha	Versati
Indonesia	Sudirman Suites	Centrifugal Chiller; Concealed Ceiling Type; AHU; Duct Type; Wall Mounted Unit
Sri Lanka	Astoria	GMV5; Duct Type
Myanmar	Golden City	GMV5; Duct Type
Australia	Subi Strand	GMV5 Mini
Australia	Toccata	GMV5 Mini
Australia	Linq	GMV5 Mini
Australia	Unison	GMV5
Oman	ERA Real Estate	GMV5
Iraq	NawRoz City-500 Luxury Apartment	Super Free Match

Country	Project Name	Installed Series
Iraq	Lebanese Village	DC Inverter GMV; U-Match; Super Free Match; Air Cooled Screw Chiller
Iraq	New Eskan Project	Super Free Match
Bulgaria	Private House, Markovo Village	Mini Chiller
Lebanon	Conad Supermarket	U-match (Inverter Series)
America	Charter Court Apartments	TMV5
Russia	Mechta Shopping Mall	U-Match
Russia	Krasnaya Pakhra Recreation Center	GMV
Philippine	Unitop Tagegarao	Water-cooled Screw Chiller
Philippine	One Mall	Centrifugal Chiller; Water-cooled Screw Chiller; AHU
Myanmar	Time City	DC Inverter Centrifugal Chiller
Mauritius	Grand Bay La Croisette	GMV4
Angola	Ulengo Center Glakeni	GMV5
Oman	Centrepont Mall	GMV5 Compact
Oman	Nawaras Commercial Centre	High-efficiency Air-cooled Screw Chiller; Terminal; GMV5; Rooftop
Russia	Tools Shop	U-Match
India	Tanishq Flag Store	DC Inverter GMV
Palestine	Palestinian Trade Tower	DC Inverter GMV
Indonesia	Grand Mercure & Ibis Hotel Yogyakarta	High-efficiency Modular Air-cooled Screw Chiller
Philippine	Sunlight Hotel Coron	GMV5
Philippine	Sunshine Island Hotel	GMV5; Duct Type
Thailand	Harbour View Residence Hotel	GMV5
Mauritius	Heritage Le Telfair Hotel	GMV5 Duct System
Qatar	Hilton Garden Inn	Fan Coil Unit
Yemen	Al-Bustan	DC Inverter GMV
Cyprus	Limassol Hotel	Free Match
Bulgaria	Alen Mak Hotel	Air-cooled Scroll Chiller
Bulgaria	Sana 1 Hotel	DC Inverter GMV
Greece	Samos Bay Hotel	DC Inverter GMV
Indonesia	Ibis Budget Hotell	Heat Pump Water Heater; Split Wall Mounted; U-Match Split Duct
Brazil	Compal Factory	Modular Air-cooled Scroll Chiller
Russia	MLP-Podolsk Logistic Center	GMV
Russia	IEK Warehouse	GMV
China	Top Giga Material TGHQ	CVE Series Permanent Magnet Synchronous Inverter Centrifugal Chiller
Brazil	XCMG Brasil	DC Inverter GMV
Russia	Aircraft Plant	U-Match

Award and Certification

