

Performance data and Outdoor unit specification

Model		GRS-CQ12PdNaD-M	
Code		ER01001190	
Capacity <sup>1</sup>	Heating ( floor heating )	kW	12.00
	Cooling ( floor cooling )	kW	13.50
Power Input <sup>1</sup>	Heating ( floor heating )	kW	2.67
	Cooling ( floor cooling )	kW	3.46
ER <sup>1</sup>	Cooling ( floor cooling )	-	3.90
COP <sup>1</sup>	Heating ( floor heating )	-	4.49
Capacity <sup>2</sup>	Heating ( Fan coil or Radiator )	kW	12.00
	Cooling ( for Fan coil )	kW	9.60
Power Input <sup>2</sup>	Heating ( Fan coil or Radiator )	kW	3.24
	Cooling ( for Fan coil )	kW	3.02
ER <sup>2</sup>	Cooling ( for Fan coil )	-	3.18
COP <sup>2</sup>	Heating ( Fan coil or Radiator )	-	3.70
Power Supply	V/Ph/Hz	-	380-415/3/50
Rated input	Cooling	Kw	4.20
	Heating	Kw	5.2
Rated current	Cooling	A	6.90
	Heating	A	8.20
Compressor	Brand	-	/
	Type	-	Inverter Rotary
	Model	-	QXAT-F310zN050
	Compressor Power Input	W	3950-60Hz>
	Quantity	-	1
Fan	Type	/	Propeller
	Quantity	-	2
	Air flow volume	CFM	1717.243
Fan Motor	Quantity	-	2
	Model	-	SWZ120A
	Motor Insulation Class	-	E
	Motor Safe Class	-	IP23
Refrigerant	Output	W	120
	Type	-	R410A
	Charge	kg	5.3
Heat exchanger	Control	-	Electronic Expansion Valve
	Quantity	-	1
	Type	-	Aluminum Fin-copper Tube
Heat exchanger	Rows	-	2
	Columns	-	10
FPI		Fins/inch	14
Sanitary water Temperature		°C	40-80
Sound Pressure Level	cooling	dB(A)	57
	heating	dB(A)	57
Connecting pipe (refrigerant)	Gas	mm(inch)	
	Liquid	mm(inch)	
	Connection method	-	Flare Connection
Dimensions	Outline (HxWxD)	mm	900.0x1345x412
	Packaged (HxWxD)	mm	998x458x1515
Weight	Net	kg	126
	Gross	kg	136
Loading quantity	20'GP	-	24.0
	40'GP	-	50.0
	40'HQ	-	50.0

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

- ①. Cooling conditions -  
Indoor Water Temperature 23°C/18°C;  
Outdoor Air Temperature 35°CDB/24°CWB
- ②. Heating conditions  
Indoor Water Temperature 30°C/35°C  
Outdoor Air Temperature 7°CDB/6°CWB
- ③. Standard piping length 7.5m

2 Capacities and power inputs are based on the following conditions:

- ①. Cooling conditions  
Indoor Water Temperature 12°C/7°C;  
Outdoor Air Temperature 35°CDB/24°CWB
- ②. Heating conditions -  
Indoor Water Temperature 40°C/45°C;  
Outdoor Air Temperature 7°CDB/6°CWB
- ③. Standard piping length 7.5m

Operation range

Nominal Operating Condition	Outdoor temp. (DB)	Cooling	°C	35
		Heating	°C	7
	Outdoor temp. (WB)	Water heating	°C	7
		Cooling	°C	95
Operating Range	Outdoor temp. (DB)	Heating	°C	6
		Water heating	°C	6
	Outdoor temp. (WB)	Cooling	°C	10~48
		Heating	°C	-20~35
Operating Range	Outdoor temp. (WB)	Water heating	°C	-20~45

INDOOR UNIT

Model		GRS-CQ12PdNaD-M		
Code		ER010N1190		
Nominal input (indoor only)		6.2		
Connecting pipe (refrigerant)	Gas	mm(inch)		
	Liquid	mm(inch)		
Connecting pipe (water)	Water inlet	mm(inch)		
	Water outlet	mm(inch)		
Safety valve		Bar	/	
Outflow water temp.	Cooling (Fan coil unit)	°C	7	
	Cooling (Floor cooling)	°C	18	
	Heating (Fan coil unit)	°C	45	
	Heating (Floor heating)	°C	35	
Main components	pump	Type	-	Water-cooled
		Nr. of speed	-	variable-speed
		Power input	W	105
	Expansion Vessel	Water flow limit	LPM	12
		Volume	Liter	10
		Water Pressure(Max)	Bar	3
		Water Pressure(Pre)	Bar	1
	Electric Heater	Type	-	Sheath
		Material	-	Stainless Steel
		Operation	-	Automatic
		Steps	-	1
		Capacity	kW	6
	Heat Exchanger	Combination	-	6
Power input		kW	6	
Heat Exchanger	Type	-	Brazed Plate HEX	
	Quantity	-	/	
Sound Pressure Level (cooling mode)		dB(A)	31	
Sound Pressure Level (heating mode)		dB(A)	31	
Dimensions	Outline (HxWxD)	mm	981x324x500	
	Packaged (HxWxD)	mm	608x1043x395	
Weight	Net	kg	58	
	Gross	kg	67	