

Performance data and Outdoor unit specification

| Model                         |                                  | GRS-CQ8.0Pd/NaD-K |                            |
|-------------------------------|----------------------------------|-------------------|----------------------------|
| Code                          |                                  | ER01001210        |                            |
| Capacity <sup>1</sup>         | Heating ( floor heating )        | kW                | 8.00                       |
|                               | Cooling ( floor cooling )        | kW                | 8.20                       |
| Power Input <sup>1</sup>      | Heating ( floor heating )        | kW                | 1.85                       |
|                               | Cooling ( floor cooling )        | kW                | 1.86                       |
| EER <sup>1</sup>              | Cooling ( floor cooling )        | -                 | 4.41                       |
| COP <sup>1</sup>              | Heating ( floor heating )        | -                 | 4.32                       |
| Capacity <sup>2</sup>         | Heating ( Fan coil or Radiator ) | kW                | 7.70                       |
|                               | Cooling ( for Fan coil )         | kW                | 5.50                       |
| Power Input <sup>2</sup>      | Heating ( Fan coil or Radiator ) | kW                | 2.26                       |
|                               | Cooling ( for Fan coil )         | kW                | 1.85                       |
| EER <sup>2</sup>              | Cooling ( for Fan coil )         | -                 | 2.97                       |
| COP <sup>2</sup>              | Heating ( Fan coil or Radiator ) | -                 | 3.41                       |
| Power Supply                  | V/Ph/Hz                          | -                 | 220-240/1/50               |
| Rated input                   | Cooling                          | Kw                | 2.70                       |
|                               | Heating                          | Kw                | 3.6                        |
| Rated current                 | Cooling                          | A                 | 13.80                      |
|                               | Heating                          | A                 | 16.40                      |
| Compressor                    | Brand                            | -                 | -                          |
|                               | Type                             | -                 | Inverter Rotary            |
|                               | Model                            | -                 | QXAT-D20zN040              |
|                               | Compressor Power Input           | W                 | 2300~60Hz                  |
|                               | Quantity                         | -                 | 1                          |
| Fan                           | Type                             | -                 | Propeller                  |
|                               | Quantity                         | -                 | 1                          |
|                               | Air flow volume                  | CFM               | 2067                       |
| Fan Motor                     | Quantity                         | -                 | 1                          |
|                               | Model                            | -                 | SWZ150A                    |
|                               | Motor Insulation Class           | -                 | E                          |
|                               | Motor Safe Class                 | -                 | IP44                       |
|                               | Output                           | W                 | 150                        |
| Refrigerant                   | Type                             | -                 | R410A                      |
|                               | Charge                           | kg                | 3.5                        |
|                               | Control                          | -                 | Electronic Expansion Valve |
|                               | Quantity                         | -                 | 1                          |
| Heat exchanger                | Type                             | -                 | Aluminum Fin-copper Tube   |
|                               | Rows                             | -                 | 3                          |
|                               | Columns                          | -                 | 6                          |
|                               | FPI                              | Fins/inch         | 16                         |
|                               | Sanitary water Temperature       | °C                | 40~80                      |
| Sound Pressure Level          | cooling                          | dB(A)             | 53                         |
|                               | heating                          | dB(A)             | 54                         |
| Connecting pipe (refrigerant) | Gas                              | mm(inch)          | -                          |
|                               | Liquid                           | mm(inch)          | -                          |
|                               | Connection method                | -                 | Flare Connection           |
| Dimensions                    | Outline (HxWxD)                  | mm                | 980.0x788x427              |
|                               | Packaged (HxWxD)                 | mm                | 1097x477x662               |
| Weight                        | Net                              | kg                | 85                         |
|                               | Gross                            | kg                | 87                         |

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 |
|                             |                    | Water heating | °C | -20~45 |

INDOOR UNIT

| Model                               |                         | GRS-CQ8.0Pd/NaD-K<-> |              |                  |
|-------------------------------------|-------------------------|----------------------|--------------|------------------|
| Code                                |                         | ER010N1210           |              |                  |
| 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                |
|                                     | Electric Heater         | Water Pressure(Pre)  | Bar          | 1                |
|                                     |                         | Type                 | -            | Sheath           |
|                                     |                         | Material             | -            | Stainless Steel  |
|                                     |                         | Operation            | -            | Automatic        |
|                                     |                         | Steps                | -            | 2                |
|                                     |                         | Capacity             | -            | 6                |
|                                     | Heat Exchanger          | Combination          | kW           | 3+3              |
|                                     |                         | Power input          | kW           | 6                |
|                                     |                         | Type                 | -            | Brazed Plate HEX |
| Quantity                            |                         | -                    | 1            |                  |
| 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                   | 56           |                  |
|                                     | Gross                   | kg                   | 65           |                  |