

| Model Name   |                   |                              | PUHZ-SHW80VAA(-BS)  | PUHZ-SHW80YAA(-BS)  |
|--|-------------------|------------------------------|---|---|
| Power supply (phase, cycle, voltage)                   |                   |                              | 1φ, 230V, 50Hz  | 3φ, 400V, 50Hz  |
|  | Max. current      | A                            | 22.0  | 13.0  |
| Breaker size   |                   |                              | 25.0  | 16.0  |
| Outer casing   |                   |                              | Galvanized plate  | Galvanized plate  |
| External finish  |                   |                              | Munsell: N8.75<br>Munsell N2.75 (FRONT PANEL)   | Munsell: N8.75<br>Munsell N2.75 (FRONT PANEL)   |
| Refrigerant control                                    |                   |                              | Linear expansion valve  | Linear expansion valve  |
| Compressor   |                   |                              | Hermetic scroll   | Hermetic scroll   |
|  | Model             |                              | DNK28FBAMT  | DNK28FBBMT  |
|  | Motor output      | kW                           | 2.2   | 2.2   |
| Start type   |                   |                              | Inverter  | Inverter  |
| Protection devices                                     |                   |                              | HP switch<br>LP switch<br>Discharge thermo<br>Overcurrent detection<br>Comp. surface thermo | HP switch<br>LP switch<br>Discharge thermo<br>Overcurrent detection<br>Comp. surface thermo |
|  | Oil (Model)       | L                            | 1.00 (FVC68D)   | 1.00 (FVC68D)   |
| Crankcase heater                                       |                   |                              | -   | -   |
| Heat exchanger   |                   | Air                          | Plate fin coil  | Plate fin coil  |
|  |                   | Water                        | -   | -   |
| Fan  | Fan(drive) x No.  |                              | Propeller fan x 1   | Propeller fan x 1   |
|  | Fan motor output  | kW                           | 0.2   | 0.2   |
|  | Air flow          | m <sup>3</sup> /min<br>(CFM) | 50 (1,760)  | 50 (1,760)  |
| Defrost method   |                   |                              | Reverse cycle   | Reverse cycle   |
| Noise level (SPL)                                      | Heating           | dB(A)                        | 45  | 45  |
|  | Cooling           | dB(A)                        | 48  | 48  |
| Noise level (PWL)                                      | Heating           | dB(A)                        | 59  | 59  |
| Dimensions   | Width             | mm(in)                       | 1050 (41-5/16)  | 1050 (41-5/16)  |
|  | Depth             | mm(in)                       | 480 (18-7/8)  | 480 (18-7/8)  |
|  | Height            | mm(in)                       | 1020 (40-3/16)  | 1020 (40-3/16)  |
| Weight   |                   | kg(lbs)                      | 116 (256)   | 128 (282)   |
| Refrigerant (GWP)                                      |                   |                              | R410A (1975)  | R410A (1975)  |
|  | Quantity          | kg(lbs)                      | 4.6 (10.1)  | 4.6 (10.1)  |
| Pipe size O.D.   | Liquid            | mm(in)                       | 9.52 (3/8)  | 9.52 (3/8)  |
|  | Gas               | mm(in)                       | 15.88 (5/8)   | 15.88 (5/8)   |
| Connection method                                      |                   |                              | Flared  | Flared  |
| Between the indoor & outdoor unit                      | Height difference | m                            | Max. 30   | Max. 30   |
|  | Piping length     | m                            | 2 to 75   | 2 to 75   |
| Guaranteed operating range (Outdoor)                   | Heating           | °C                           | -28 to +21  | -28 to +21  |
|  | DHW               | °C                           | -28 to +35  | -28 to +35  |
|  | Cooling*          | °C                           | -15 to +46  | -15 to +46  |
| Outlet water temp.<br>(Max in heating, Min in cooling) | Heating           | °C                           | +60   | +60   |
|  | Cooling           | °C                           | +5  | +5  |
| Nominal return water temperature range                 | Heating           | °C                           | +5 to +59   | +5 to +59   |
|  | Cooling           | °C                           | +8 to +28   | +8 to +28   |
| Water flow rate range                                  |                   | L/min                        | 10.2 to 22.9  | 10.2 to 22.9  |

\* Optional air protection guide is required where ambient temperature is lower than -5°C.  
 The temperature is 10°C when the unit is connected with Cylinder unit or Hydrobox.  
 For more details, refer to "Cylinder unit / Hydrobox".

| Model name                             |             | PUHZ-SHW230YKA2                  |       |
|--|-------------|----------------------------------|-------|
| Nominal water flow rate (Heating mode) |             | L/min                            | 65.9  |
| Heating (A7/W35)                       | Capacity    | kW                               | 23.00 |
|  | COP         |                                  | 3.65  |
|  | Power input | kW                               | 6.31  |
| Heating (A2/W35)                       | Capacity    | kW                               | 23.00 |
|  | COP         |                                  | 2.37  |
|  | Power input | kW                               | 9.71  |
| Pressure difference (water circuit)    |             | kPa                              | -     |
| Heating pump input (based on EN14511)  |             | kW                               | -     |
| Nominal water flow rate (Cooling mode) |             | L/min                            | 57.3  |
| Cooling (A35/W7)                       | Capacity    | kW                               | 20.00 |
|  | EER (COP)   |                                  | 2.22  |
|  | Power input | kW                               | 9.01  |
| Cooling (A35/W18)                      | Capacity    | kW                               | 20.00 |
|  | EER (COP)   |                                  | 3.55  |
|  | Power input | kW                               | 5.63  |
| Pressure difference (water circuit)    |             | kPa                              | -     |
| Cooling pump input (based on EN14511)  |             | kW                               | -     |
| Recommended plate heat exchanger       |             | ACH70-40 x 2 Parallel connection |       |

The table shows performance data obtained when a plate heat exchanger is connected.

| Model name                             |             | PUHZ-SHW80VAA(-BS) |      | PUHZ-SHW80YAA(-BS) |  |
|--|-------------|--------------------|------|--------------------|--|
| Nominal water flow rate (Heating mode) |             | L/min              | 22.9 | 22.9               |  |
| Heating (A7/W35)                       | Capacity    | kW                 | 8.0  | 8.0                |  |
|  | COP         |                    | 4.65 | 4.65               |  |
|  | Power input | kW                 | 1.72 | 1.72               |  |
| Heating (A2/W35)                       | Capacity    | kW                 | 8.0  | 8.0                |  |
|  | COP         |                    | 3.55 | 3.55               |  |
|  | Power input | kW                 | 2.25 | 2.25               |  |
| Pressure difference (water circuit)    |             | kPa                | -    | -                  |  |
| Heating pump input (based on EN14511)  |             | kW                 | -    | -                  |  |
| Nominal water flow rate (Cooling mode) |             | L/min              | 20.4 | 20.4               |  |
| Cooling (A35/W7)                       | Capacity    | kW                 | 7.1  | 7.1                |  |
|  | EER (COP)   |                    | 3.31 | 3.31               |  |
|  | Power input | kW                 | 2.15 | 2.15               |  |
| Cooling (A35/W18)                      | Capacity    | kW                 | 7.1  | 7.1                |  |
|  | EER (COP)   |                    | 4.52 | 4.52               |  |
|  | Power input | kW                 | 1.57 | 1.57               |  |
| Pressure difference (water circuit)    |             | kPa                | -    | -                  |  |
| Cooling pump input (based on EN14511)  |             | kW                 | -    | -                  |  |
| Recommended plate heat exchanger       |             | MWA2-38PA          |      | MWA2-38PA          |  |

The table shows performance data obtained when a plate heat exchanger is connected.

Unit : mm

- PUAZ-SW75/100VAA(-BS)
- PUAZ-SW75/100YAA(-BS)
- PUAZ-SHW80/112VAA(-BS)
- PUAZ-SHW80/112YAA(-BS)

Outdoor unit

