

| MODEL NAME                                          |                    |              | PUD-SHWM140VAA(-BS)                                                             | PUD-SHWM140YAA(-BS)                                                             |
|-----------------------------------------------------|--------------------|--------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| POWER SUPPLY(Phase, voltage, frequency)             |                    |              | 1φ, 230 V, 50 Hz                                                                | 3φ, 400 V, 50 Hz                                                                |
|                                                     | Max. Current       | A            | 35.0                                                                            | 12.0                                                                            |
| Braker size                                         |                    | A            | 40                                                                              | 16                                                                              |
| Outer casing                                        |                    |              | Galvanized plate                                                                | Galvanized plate                                                                |
| External finish                                     |                    |              | Munsell N8.75, N2.75 (FRONT PANEL)                                              | Munsell N8.75, N2.75 (FRONT PANEL)                                              |
| Refrigerant control                                 |                    |              | Linear expansion valve                                                          | Linear expansion valve                                                          |
| Compressor                                          |                    |              | Hermetic scroll                                                                 | Hermetic scroll                                                                 |
|                                                     | Model              |              | DVK36FBEMT                                                                      | DVK36FBBMT                                                                      |
|                                                     | Motor output       | kW           | 3.6                                                                             | 3.6                                                                             |
|                                                     | Start type         |              | Inverter                                                                        | Inverter                                                                        |
|                                                     | Protection devices |              | HP switch<br>Discharge thermo<br>Comp. Surface thermo<br>Over current detection | HP switch<br>Discharge thermo<br>Comp. Surface thermo<br>Over current detection |
|                                                     | Oil (Model)        | L            | 0.9 (FW68S)                                                                     | 0.9 (FW68S)                                                                     |
| Crankcase heater                                    |                    |              | -                                                                               | -                                                                               |
| Heat exchanger                                      | Air                |              | Plate fin coil                                                                  | Plate fin coil                                                                  |
|                                                     | Water              |              | -                                                                               | -                                                                               |
| Fan                                                 | Fan(drive) x No.   |              | Propeller fan x1                                                                | Propeller fan x1                                                                |
|                                                     | Fan motor output   | kW           | 0.200                                                                           | 0.200                                                                           |
|                                                     | Air flow           | m³/min (CFM) | 50 (1760)                                                                       | 50 (1760)                                                                       |
| Defrost method                                      |                    |              | Reverse cycle                                                                   | Reverse cycle                                                                   |
| Noise level (SPL)                                   | Heating            | dB           | 48                                                                              | 48                                                                              |
|                                                     | Cooling            | dB           | -                                                                               | -                                                                               |
| Noise level (PWL)                                   | Heating            | dB           | 62                                                                              | 62                                                                              |
| Dimensions                                          | Height             | mm(in)       | 1050 (41-5/16)                                                                  | 1050 (41-5/16)                                                                  |
|                                                     | Depth              | mm(in)       | 480 (18-7/8)                                                                    | 480 (18-7/8)                                                                    |
|                                                     | Width              | mm(in)       | 1020 (40-3/16)                                                                  | 1020 (40-3/16)                                                                  |
| Weight                                              |                    | kg(lbs)      | 110 (243)                                                                       | 122 (269)                                                                       |
| Refrigerant (GWP)                                   |                    |              | R32                                                                             | R32                                                                             |
|                                                     | Chargeless         | kg           | 1.7 (3.8)                                                                       | 1.7 (3.8)                                                                       |
|                                                     | MAX.               | kg           | 1.83 (4.0)                                                                      | 1.83 (4.0)                                                                      |
| Pipe size O.D.                                      | Liquid             | mm(in)       | 6.35 (1/4)                                                                      | 6.35 (1/4)                                                                      |
|                                                     | Gas                | mm(in)       | 12.7 (1/2)                                                                      | 12.7 (1/2)                                                                      |
| Connection method                                   |                    |              | Flared                                                                          | Flared                                                                          |
| Between the indoor & outdoor unit                   | Height difference  | m            | 25                                                                              | 25                                                                              |
|                                                     | Piping length      | m            | 2 to 25                                                                         | 2 to 25                                                                         |
| Guaranteed operating range (Outdoor)                | Heating            | °C           | -28 to +24                                                                      | -28 to +24                                                                      |
|                                                     | DHW                | °C           | -28 to +35                                                                      | -28 to +35                                                                      |
|                                                     | Cooling            | °C           | -                                                                               | -                                                                               |
| Outlet water temp. (Max in Heating, Min in Cooling) | Heating            | °C           | +60                                                                             | +60                                                                             |
|                                                     | Cooling            | °C           | -                                                                               | -                                                                               |
| Nominal return water temperature range              | Heating            | L/min        | +10 to +59                                                                      | +10 to +59                                                                      |
|                                                     | Cooling            | L/min        | -                                                                               | -                                                                               |
| Water Flow rate range                               |                    | L/min        | 14.3 to 34.4                                                                    | 14.3 to 34.4                                                                    |

■ PUD-SWM60VAA(-BS)  
PUD-SWM100YAA(-BS)  
PUD-SHWM80VAA(-BS)  
PUD-SHWM120VAA(-BS)

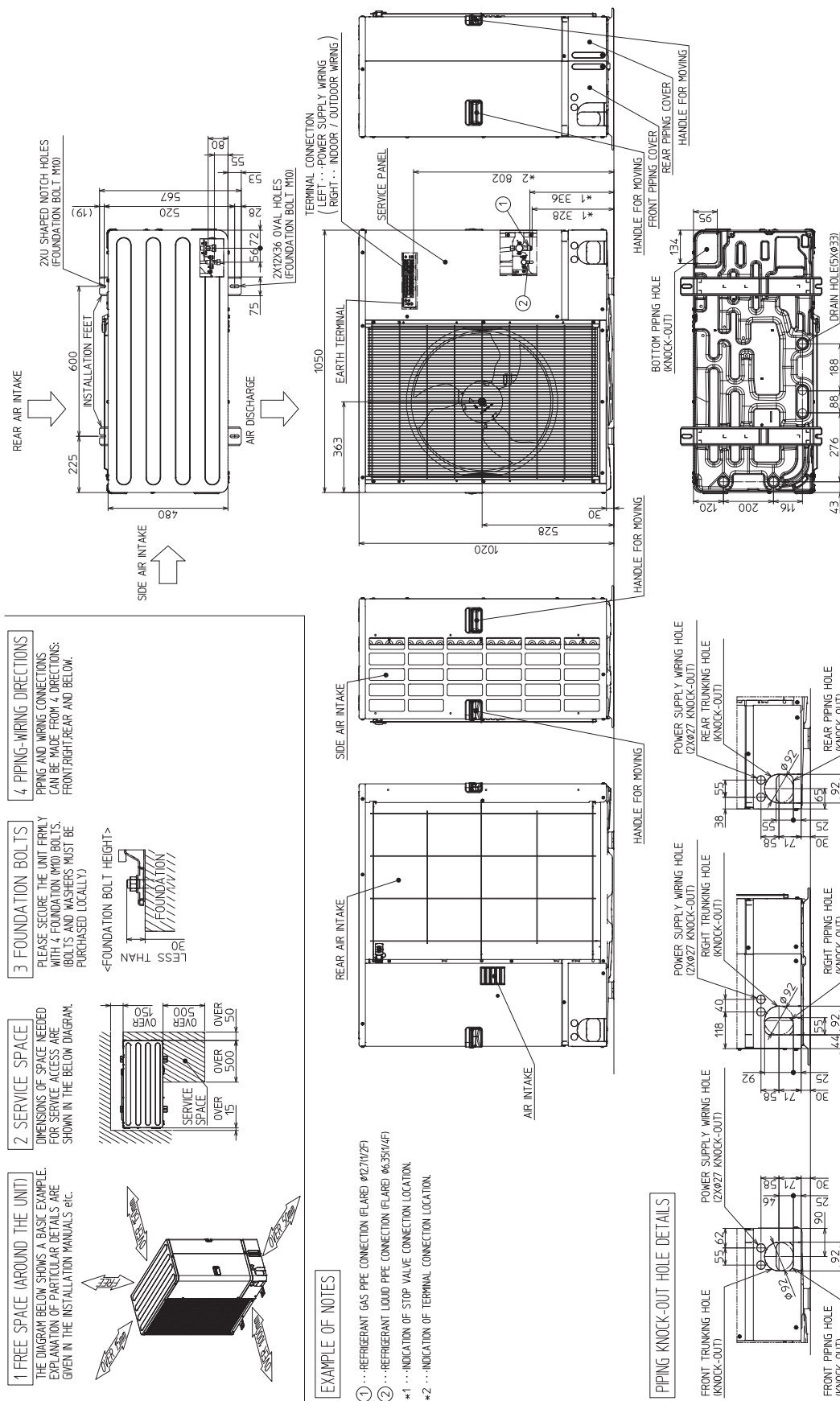
PUD-SWM80VAA(-BS)  
PUD-SWM120VAA(-BS)  
PUD-SHWM80YAA(-BS)  
PUD-SHWM120YAA(-BS)

PUD-SWM80YAA(-BS)  
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PUD-SHWM140VAA(-BS)

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Unit: mm

Outdoor unit



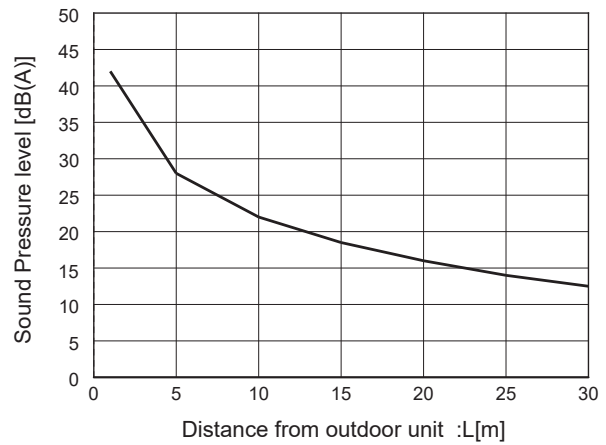
## ■ PUD-SHWM140VAA(-BS) PUD-SHWM140YAA(-BS)

| Water outlet temperature [°C] |           | 25       |      | 35       |      | 40       |      | 45       |      | 50       |      | 55       |      | 60       |      |
|-------------------------------|-----------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|
| Ambient temperature [°C]      |           | Capacity | COP  | Capacity | COP  | Capacity | COP  | Capacity | COP  | Capacity | COP  | Capacity | COP  | Capacity | COP  |
| Max                           | -28 (INJ) | -        | -    | 9.8      | 1.90 | 9.7      | 1.75 | 9.6      | 1.55 | -        | -    | -        | -    | -        | -    |
|                               | -20 (INJ) | -        | -    | 11.8     | 2.00 | 11.7     | 1.85 | 11.5     | 1.70 | 11.0     | 1.50 | -        | -    | -        | -    |
|                               | -15 (INJ) | -        | -    | 14.2     | 2.10 | 14.1     | 2.00 | 14.0     | 1.85 | 12.9     | 1.75 | 11.7     | 1.70 | -        | -    |
|                               | -10 (INJ) | 15.5     | 2.10 | 14.9     | 2.20 | 14.8     | 2.10 | 14.6     | 1.95 | 14.5     | 1.85 | 14.3     | 1.80 | -        | -    |
|                               | -7 (INJ)  | 16.2     | 2.20 | 15.8     | 2.20 | 15.6     | 2.15 | 15.4     | 2.05 | 15.3     | 1.95 | 15.2     | 1.80 | 11.0     | 1.50 |
|                               | 2         | 15.6     | 2.90 | 14.6     | 2.90 | 14.5     | 2.60 | 14.3     | 2.30 | 14.2     | 2.10 | 14.0     | 1.95 | 12.0     | 1.65 |
|                               | 7         | 15.4     | 4.10 | 14.4     | 3.50 | 14.2     | 3.25 | 13.9     | 2.95 | 13.3     | 2.60 | 12.6     | 2.40 | 11.0     | 2.10 |
|                               | 12        | 16.3     | 5.00 | 15.4     | 4.20 | 15.1     | 3.75 | 14.8     | 3.25 | 14.2     | 2.85 | 13.6     | 2.45 | 12.4     | 2.20 |
|                               | 15        | 16.7     | 5.50 | 15.8     | 4.85 | 15.5     | 4.45 | 15.2     | 4.00 | 14.6     | 3.50 | 14.0     | 3.00 | 12.8     | 2.60 |
|                               | 20        | 17.9     | 5.30 | 17.0     | 5.00 | 16.7     | 4.60 | 16.4     | 4.20 | 15.7     | 3.80 | 15.0     | 3.35 | 13.8     | 2.90 |
| Nominal                       | -28 (INJ) | -        | -    | 9.8      | 1.90 | 9.7      | 1.75 | 9.6      | 1.55 | -        | -    | -        | -    | -        | -    |
|                               | -20 (INJ) | -        | -    | 11.8     | 2.00 | 11.7     | 1.85 | 11.5     | 1.70 | 11.3     | 1.45 | -        | -    | -        | -    |
|                               | -15 (INJ) | -        | -    | 14.0     | 2.15 | 14.0     | 2.00 | 14.0     | 1.85 | 12.9     | 1.75 | 11.7     | 1.70 | -        | -    |
|                               | -10 (INJ) | 14.0     | 2.60 | 14.0     | 2.69 | 14.0     | 2.35 | 14.0     | 2.00 | 14.0     | 1.85 | 14.0     | 1.80 | -        | -    |
|                               | -7 (INJ)  | 14.0     | 2.95 | 14.0     | 2.70 | 14.0     | 2.45 | 14.0     | 2.20 | 14.0     | 1.95 | 14.0     | 1.87 | 11.0     | 1.50 |
|                               | 2         | 14.0     | 3.15 | 14.0     | 3.05 | 14.0     | 2.70 | 14.0     | 2.35 | 14.0     | 2.15 | 14.0     | 1.95 | 12.0     | 1.65 |
|                               | 7         | 12.0     | 5.50 | 12.0     | 4.70 | 12.0     | 3.95 | 12.0     | 3.20 | 12.0     | 2.80 | 12.0     | 2.45 | 11.0     | 2.10 |
|                               | 12        | 12.0     | 6.60 | 12.0     | 5.55 | 12.0     | 4.80 | 12.0     | 4.00 | 12.0     | 3.40 | 12.0     | 2.80 | 12.0     | 2.30 |
|                               | 15        | 12.0     | 7.20 | 12.0     | 5.90 | 12.0     | 5.25 | 12.0     | 4.60 | 12.0     | 4.05 | 12.0     | 3.45 | 12.0     | 2.75 |
|                               | 20        | 12.0     | 8.40 | 12.0     | 6.70 | 12.0     | 5.95 | 12.0     | 5.20 | 12.0     | 4.45 | 12.0     | 3.70 | 12.0     | 3.35 |
| Mid                           | -28 (INJ) | -        | -    | 7.8      | 2.05 | 7.8      | 1.85 | 7.7      | 1.60 | -        | -    | -        | -    | -        | -    |
|                               | -20 (INJ) | -        | -    | 9.4      | 2.20 | 9.3      | 2.00 | 9.2      | 1.80 | 9.0      | 1.60 | -        | -    | -        | -    |
|                               | -15 (INJ) | -        | -    | 11.2     | 2.45 | 11.2     | 2.20 | 11.2     | 1.90 | 10.3     | 1.90 | 9.4      | 1.80 | -        | -    |
|                               | -10 (INJ) | 11.2     | 3.35 | 11.2     | 2.90 | 11.2     | 2.60 | 11.2     | 2.30 | 11.2     | 2.05 | 11.2     | 1.90 | -        | -    |
|                               | -7 (INJ)  | 11.2     | 3.45 | 11.2     | 3.05 | 11.2     | 2.75 | 11.2     | 2.40 | 11.2     | 2.20 | 11.2     | 2.00 | 8.8      | 1.65 |
|                               | 2         | 11.2     | 3.90 | 11.2     | 3.40 | 11.2     | 3.05 | 11.2     | 2.70 | 11.2     | 2.40 | 11.2     | 2.10 | 9.6      | 1.85 |
|                               | 7         | 9.6      | 6.00 | 9.6      | 4.90 | 9.6      | 4.25 | 9.6      | 3.55 | 9.6      | 3.10 | 9.6      | 2.60 | 8.8      | 2.30 |
|                               | 12        | 9.6      | 7.10 | 9.6      | 5.95 | 9.6      | 5.15 | 9.6      | 4.30 | 9.6      | 3.65 | 9.6      | 3.00 | 9.6      | 2.55 |
|                               | 15        | 9.6      | 7.50 | 9.6      | 6.20 | 9.6      | 5.50 | 9.6      | 4.80 | 9.6      | 4.25 | 9.6      | 3.65 | 9.6      | 2.90 |
|                               | 20        | 9.6      | 8.75 | 9.6      | 7.10 | 9.6      | 6.25 | 9.6      | 5.40 | 9.6      | 4.60 | 9.6      | 3.80 | 9.6      | 3.70 |
| Min                           | -28       | -        | -    | 4.2      | 1.90 | 4.1      | 1.70 | 4.0      | 1.50 | -        | -    | -        | -    | -        | -    |
|                               | -20       | -        | -    | 5.1      | 2.40 | 5.0      | 2.15 | 4.9      | 1.85 | 4.7      | 1.55 | -        | -    | -        | -    |
|                               | -15       | -        | -    | 5.8      | 2.70 | 5.7      | 2.40 | 5.6      | 2.05 | 5.5      | 1.85 | 5.4      | 1.60 | -        | -    |
|                               | -10       | 4.0      | 3.60 | 3.8      | 2.90 | 3.7      | 2.60 | 3.6      | 2.25 | 3.5      | 1.95 | 3.3      | 1.65 | -        | -    |
|                               | -7        | 4.2      | 3.75 | 3.9      | 3.00 | 3.8      | 2.65 | 3.7      | 2.30 | 3.5      | 2.05 | 3.2      | 1.75 | 3.9      | 1.65 |
|                               | 2         | 3.9      | 4.70 | 3.5      | 3.65 | 3.4      | 3.25 | 3.2      | 2.80 | 3.0      | 2.35 | 2.7      | 1.90 | 3.5      | 1.90 |
|                               | 7         | 3.9      | 5.80 | 3.5      | 4.20 | 3.4      | 3.75 | 3.2      | 3.30 | 3.0      | 2.90 | 2.7      | 2.45 | 3.4      | 2.25 |
|                               | 12        | 4.2      | 7.10 | 3.9      | 5.10 | 3.7      | 4.60 | 3.5      | 4.10 | 3.3      | 3.50 | 3.0      | 2.85 | 3.8      | 2.65 |
|                               | 15        | 4.4      | 7.40 | 4.3      | 6.00 | 4.2      | 5.25 | 4.1      | 4.45 | 3.9      | 3.90 | 3.6      | 3.30 | 4.0      | 2.85 |
|                               | 20        | 5.2      | 8.00 | 4.8      | 6.85 | 4.6      | 6.00 | 4.4      | 5.10 | 4.2      | 4.40 | 4.0      | 3.65 | 4.4      | 3.50 |

■ PUD-SWM60VAA(-BS)  
PUD-SHWM60VAA(-BS)



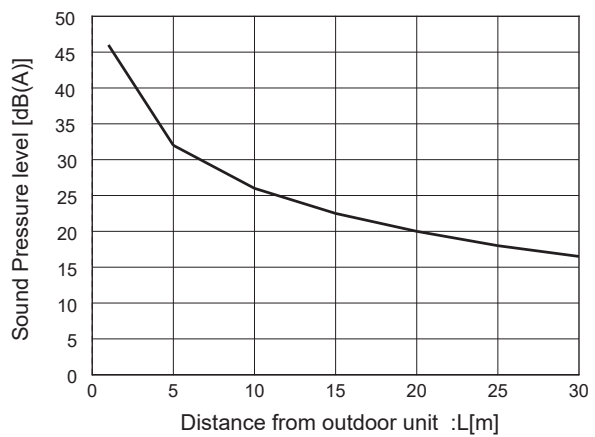
■ PUD-SWM80VAA(-BS)  
PUD-SWM80YAA(-BS)  
PUD-SHWM80VAA(-BS)  
PUD-SHWM80YAA(-BS)



■ PUD-SWM100VAA(-BS)  
PUD-SWM100YAA(-BS)  
PUD-SHWM100VAA(-BS)  
PUD-SHWM100YAA(-BS)



■ PUD-SWM120VAA(-BS)  
PUD-SWM120YAA(-BS)  
PUD-SHWM120VAA(-BS)  
PUD-SHWM120YAA(-BS)



■ PUD-SHWM140VAA(-BS)  
PUD-SHWM140YAA(-BS)

