

3.3 WH-SDC12K9E8 WH-UDZ12KE8

| Item | | Unit | Outdoor Unit | | |
|------------------------------|---|-----------|---|------------------|------------------|
| Performance Test Condition | | | EN 14511 / EN14825 | | |
| Cooling Capacity | Condition (Ambient/Water) | | A35W7 | | |
| | kW | | 10.70 | | |
| | BTU/h | | 36500 | | |
| | kcal/h | | 9200 | | |
| Cooling EER | W/W | | 2.68 | | |
| | kcal/hW | | 2.30 | | |
| Heating Capacity | Condition (Ambient/Water) | | A7W35 | A2W35 | |
| | kW | | 12.10 | 11.50 | |
| | BTU/h | | 41300 | 39240 | |
| | kcal/h | | 10410 | 9890 | |
| Heating COP | W/W | | 4.78 | 3.44 | |
| | kcal/hW | | 4.11 | 2.96 | |
| Heating ErP | Low Temperature Application (W35) | | Warmer | Average | Colder |
| | Application | Climate | | | |
| | Pdesign | kW | 9.0 | 12.0 | 11.0 |
| | Tbivalent / TOL | °C | 2 / 2 | -10 / -10 | -15 / -22 |
| | SCOP / ns | (W/W) / % | 6.47 / 256 | 4.58 / 180 | 4.31 / 169 |
| | Annual Consumption | kWh | 1859 | 5416 | 6289 |
| | Class | | A+++ | A+++ | A++ |
| | Medium Temperature Application (W55) | | Warmer | Average | Colder |
| | Application | Climate | | | |
| | Pdesign | kW | 9.0 | 12.0 | 9.0 |
| | Tbivalent / TOL | °C | 2 / 2 | -3 / -10 | -15 / -22 |
| | SCOP / ns | (W/W) / % | 4.34 / 171 | 3.33 / 130 | 3.26 / 127 |
| | Annual Consumption | kWh | 2772 | 7453 | 6801 |
| | Class | | A+++ | A++ | A++ |
| Noise Level | Condition (Ambient/Water) | | A35W7 | A7W35 | A2W35 |
| | dB (A) | | Cooling: 50 | Heating: 52 | Heating: 52 |
| | Power Level dB | | Cooling: 68 | Heating: 69 / 65 | Heating: 69 / 65 |
| Air Flow | m ³ /min (ft ³ /min) | | Cooling: 94.6 (3340) Heating: 76.0 (2680) | | |
| Refrigeration Control Device | | | Expansion Valve | | |
| Refrigeration Oil | cm ³ | | FW50S (1300) | | |
| Refrigerant (R32) | kg (oz) | | 1.60 (56.5) Precharge 2.20 (77.7) Maximum charge | | |
| F-GAS | GWP | | 675 | | |
| | CO ₂ eq (ton) (Precharged / Maximum) | | 1.080 / 1.485 | | |
| Dimension | Height | mm (inch) | 1340 (52-25/32) | | |
| | Width | mm (inch) | 900 (35-14/32) | | |
| | Depth | mm (inch) | 320 (11-24/32) | | |
| Net Weight | kg (lbs) | | 90 (198) | | |
| Pipe Diameter | Liquid | mm (inch) | 6.35 (1/4) | | |
| | Gas | mm (inch) | 12.70 (1/2) | | |

| Item | | Unit | Outdoor Unit | | |
|--|---------------------------|-------------|--|---------------|---------------|
| Standard Length | | m (ft) | 7 (23.0) | | |
| Pipe Length Range | | m (ft) | 3 (9.8) ~ 30 (98.4) | | |
| I/D & O/D Height Difference | | m (ft) | 20 (65.6) | | |
| Additional Gas Amount | | g/m (oz/ft) | 30 (0.3) | | |
| Refrigeration Charge Less | | m (ft) | 10 (32.8) | | |
| Compressor | Type | | Hermetic Motor | | |
| | Motor Type | | Synchronous Electric Motor (6-poles) | | |
| | Rated Output | kW | 3.00 | | |
| Fan | Type | | Propeller Fan | | |
| | Material | | PP | | |
| | Motor Type | | DC (8-poles) | | |
| | Input Power | W | - | | |
| | Output Power | W | 60 | | |
| | Fan Speed | rpm | Cooling: 680 (Top), 720 (Bottom) Heating: 490 (Top), 530 (Bottom) | | |
| Heat Exchanger | Fin material | | Aluminium (Pre Coat) | | |
| | Fin Type | | Corrugated Fin | | |
| | Row × Stage × FPI | | 2 × 62 × 19 | | |
| | Size (W × H × L) | mm | 903.7 × 1302 × 36.38 | | |
| Power Source (Phase, Voltage, Cycle) | ∅ | | Three | | |
| | V | | 400 | | |
| | Hz | | 50 | | |
| Input Power | Condition (Ambient/Water) | | A35W7 | A7W35 | A2W35 |
| | kW | | Cooling: 4.00 | Heating: 2.53 | Heating: 3.34 |
| Maximum Input Power For Heatpump System | | kW | 7.60 | | |
| Power Supply 1 : Phase (∅) / Max. Current (A) / Max. Input Power (W) | | | 3∅ / 11.8 / 7.60k | | |
| Power Supply 2 : Phase (∅) / Max. Current (A) / Max. Input Power (W) | | | 3∅ / 13.0 / 9.00k | | |
| Power Supply 3 : Phase (∅) / Max. Current (A) / Max. Input Power (W) | | | - / - / - | | |
| Starting Current | | A | 4.0 | | |
| Running Current | Condition (Ambient/Water) | | A35W7 | A7W35 | A2W35 |
| | A | | Cooling: 6.3 | Heating: 4.0 | Heating: 5.1 |
| Maximum Current For Heatpump System | | A | 11.8 | | |
| Power Factor Power factor means total figure of compressor and outdoor fan motor. | | % | Cooling: 92 | Heating: 93 | Heating: 95 |
| Power Cord | Number of core | | - | | |
| | Length | m (ft) | - | | |
| Thermostat | | | Electronic Control | | |
| Protection Device | | | Electronic Control | | |

| Item | | Unit | Indoor Unit | | |
|--|---------------------------|---------------------------|--|-------------|-------------|
| Performance Test Condition | | | EN 14511 / EN14825 | | |
| Operation Range | Outdoor Ambient | °C | Cooling: 10 / 43 ^{*1, *2} Heating: -25 / 35 | | |
| | Water Outlet | °C | Cooling: 5 / 20 ^{*1, *2} Heating: 20 / 55 (Below Ambient -15°C) ^{*3} 20 / 60 (Below Ambient -10°C) ^{*3} | | |
| Internal Pressure Differential | | kPa | Cooling: 42.0 Heating: 52.0 | | |
| Noise Level | Condition (Ambient/Water) | | A35W7 | A7W35 | A2W35 |
| | dB (A) | | Cooling: 33 | Heating: 33 | Heating: 33 |
| | Power Level dB | | Cooling: 46 | Heating: 46 | Heating: 46 |
| Dimension | Height | mm (inch) | 892 (35-1/8) | | |
| | Width | mm (inch) | 500 (19-11/16) | | |
| | Depth | mm (inch) | 348 (13-23/32) | | |
| Net Weight | | kg (lbs) | 41 (90) | | |
| Refrigerant Pipe Diameter | Liquid | mm (inch) | 6.35 (1/4) | | |
| | Gas | mm (inch) | 12.70 (1/2) | | |
| Water Pipe Diameter | Inlet | mm (inch) | (1-1/4) | | |
| | Outlet | mm (inch) | (1-1/4) | | |
| Water Drain Hose Inner Diameter | | mm (inch) | 12 (17/36) | | |
| Pump | Motor Type | | Brushless DC Motor | | |
| | No. of Speed | | 7 (Software Selection) | | |
| | Input Power | W | 145 | | |
| Hot Water Coil | Type | | Brazed Plate | | |
| | No. of Plates | | 36 | | |
| | Size (W × H × L) | mm | 120 x 376 x 66 | | |
| | Water Flow Rate | l/min (m ³ /h) | Cooling: 30.7 (1.8) Heating: 34.4 (2.1) | | |
| Pressure Relief Valve Water Circuit | | kPa | Open: 300, Close: 210 and below | | |
| Flow Sensor | Type | | Piezoelectric sensor | | |
| | Range | l/min | 5 ~ 60 | | |
| Protection Device | | A | Residual Current Circuit Breaker (25 ~ 40) | | |
| Expansion Vessel | Volume | l | 10 | | |
| | MWP | bar | 3 | | |
| Capacity of Integrated Electric Heater | | kW | 9.00 | | |

- Note:**
- In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
 - If the EUROVENT Certified models can be operated under the “extra-low” temperature condition, -7°C DB and -8°C WB temperature with rated voltage 230V shall be used.
 - Capacity is measured at outdoor temperature 7°C DB and 6°C WB with controlled water inlet 30°C and water outlet 35°C (EN 14511-2)
 - Flowrate indicated are based on nominal capacity adjustment of leaving water temperature (LWT) 35°C and ΔT=5°C.
 - EER and COP classification is at 230V only in accordance with EU directive 2003/32/EC.
 - *** The sound pressure level is measured with distance 1.0m from the unit and height at 1.5m. (Test carry out for cooling at ambient 35°C DB and Water Out 7°C, heating at ambient 7°C DB / 6°C WB and water out 55°C)
 - **** The sound power level is measured with accordance to EN12102 under conditions of the EN14825.
- ^{*1} The system is locked to operate without COOL mode. It can be unlocked only by authorised installer or our authorised service partners.
- ^{*2} Only displayed when COOL mode is unlocked (This means when COOL mode is available).
- ^{*3} Between outdoor ambient -10°C and -15°C, the water outlet temperature gradually decreases from 60°C to 55°C.