

### 3.3 WH-SDC0509L3E5 WH-WDG09LE5

| Item                                   |   | Unit                      | Outdoor Unit                                 |             |             |
|--|---|---------------------------|--|-------------|-------------|
| Performance Test Condition             |   |                           | EN 14511 / EN 14825                          |             |             |
| Cooling Capacity                       | Condition (Ambient/Water)                       |                           | A35W7  |             |             |
|  | kW  |                           | 8.20   |             |             |
|  | BTU/h   |                           | 28000  |             |             |
|  | kcal/h  |                           | 7050   |             |             |
| Cooling EER                            | W/W   |                           | 2.82   |             |             |
|  | kcal/hW   |                           | 2.42   |             |             |
| Heating Capacity                       | Condition (Ambient/Water)                       |                           | A7W35  | A2W35       |             |
|  | kW  |                           | 9.00   | 7.00        |             |
|  | BTU/h   |                           | 30700  | 23900       |             |
|  | kcal/h  |                           | 7740   | 6020        |             |
| Heating COP                            | W/W   |                           | 4.55   | 3.41        |             |
|  | kcal/hW   |                           | 3.91   | 2.94        |             |
| Heating ErP                            | Low Temperature Application (W35)               |                           | Warmer                                       | Average     | Colder      |
|  | Application                                     | Climate                   |  |             |             |
|  | Pdesign   | kW                        | 7.0  | 8.0         | 9.0         |
|  | Tbivalent / TOL                                 | °C                        | 2 / 2  | -10 / -10   | -15 / -22   |
|  | SCOP / ns                                       | (W/W) / %                 | 6.44 / 255                                   | 4.84 / 190  | 4.31 / 170  |
|  | Annual Consumption                              | kWh                       | 1453   | 3417        | 5142        |
|  | Class   |                           | A+++   | A+++        | A++         |
|  | Medium Temperature Application (W55)            |                           | Warmer                                       | Average     | Colder      |
|  | Application                                     | Climate                   |  |             |             |
|  | Pdesign   | kW                        | 7.0  | 8.0         | 8.0         |
|  | Tbivalent / TOL                                 | °C                        | 2 / 2  | -7 / -10    | -15 / -22   |
|  | SCOP / ns                                       | (W/W) / %                 | 4.50 / 177                                   | 3.67 / 144  | 3.33 / 130  |
|  | Annual Consumption                              | kWh                       | 2080   | 4499        | 5915        |
|  | Class   |                           | A+++   | A++         | A++         |
|  | Noise Level                                     | Condition (Ambient/Water) |  | A35W7       | A7W35       |
| dB (A) ***                             |   |                           | Cooling: -                                   | Heating: -  | Heating: -  |
| Power Level dB ***                     |   |                           | Cooling: 63                                  | Heating: 63 | Heating: 63 |
| dB ****                                |   |                           | -  | Heating: 54 | Heating: 54 |
| Air Flow                               | m <sup>3</sup> /min (ft <sup>3</sup> /min)      |                           | Cooling: 61.0 (2154)<br>Heating: 74.0 (2613) |             |             |
| Refrigeration Control Device           |   |                           | Expansion Valve                              |             |             |
| Refrigeration Oil                      | cm <sup>3</sup>                                 |                           | PZ68S (1100)                                 |             |             |
| Refrigerant (R290) Precharge / Maximum | kg (oz)   |                           | 1.00 (35.3) / (-)                            |             |             |
| F-GAS                                  | GWP   |                           | 3  |             |             |
|  | CO <sub>2</sub> eq (ton) (Precharged / Maximum) |                           | 0.003 / (-)                                  |             |             |
| 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)  |                           | 33 (73)                                      |             |             |

| Item   |                           | Unit                      | Outdoor Unit                               |               |             |
|--|---------------------------|---------------------------|--|---------------|-------------|
| Pipe Diameter (Inner)  |                           | mm                        | 25   |               |             |
| Standard Length  |                           | m (ft)                    | 5.0 / 16.4                                 |               |             |
| Maximum Pipe Length  |                           | m (ft)                    | 30.0 (98.4)                                |               |             |
| I/D & O/D Height Difference  |                           | m (ft)                    | 10.0 (32.8)                                |               |             |
| Water Pipe Connector   | Indoor                    | mm (inch)                 | 1  |               |             |
|  | Outdoor                   | mm (inch)                 | 1  |               |             |
| Compressor   | Type                      |                           | Hermetic Motor Compressor (Rotary)         |               |             |
|  | Motor Type                |                           | Synchronous Electric Motor (4-poles)       |               |             |
|  | Rated Output              | kW                        | 1.70                                       |               |             |
| Fan  | Type                      |                           | Propeller Fan                              |               |             |
|  | Material                  |                           | PP   |               |             |
|  | Motor Type                |                           | DC (8-poles)                               |               |             |
|  | Input Power               | W                         | 2.178 (Heating) / 3.201 (Cooling)          |               |             |
|  | Output Power              | W                         | 120  |               |             |
|  | Fan Speed                 | rpm                       | Cooling: 570<br>Heating: 560               |               |             |
| Heat Exchanger   | Fin material              |                           | Aluminium (Pre Coat)                       |               |             |
|  | Fin Type                  |                           | Corrugated Fin                             |               |             |
|  | Row × Stage × FPI         |                           | 2 × 46 × 19                                |               |             |
|  | Size (W × H × L)          | mm                        | 36.38 × 966 × 880.6 : 908.6                |               |             |
| Hot Water Coil   | Type                      |                           | Braze Plate                                |               |             |
|  | No. of Plates             |                           | 26   |               |             |
|  | Size (W × H × L)          | mm                        | 57.8 × 524 × 117                           |               |             |
|  | Water Flow Rate           | l/min (m <sup>3</sup> /h) | Cooling: 23.5 (1.4)<br>Heating: 25.8 (1.5) |               |             |
| Power Source (Phase, Voltage, Cycle)   |                           | Ø                         | Single                                     |               |             |
|  |                           | V                         | 230  |               |             |
|  |                           | Hz                        | 50   |               |             |
| Input Power  | Condition (Ambient/Water) | A35W7                     | A7W35                                      | A2W35         |             |
|  | kW                        | Cooling: 2.91             | Heating: 1.98                              | Heating: 2.05 |             |
| Maximum Input Power For Heatpump System  |                           | kW                        | 3.56                                       |               |             |
| Power Supply 1 : Phase (Ø) / Max. Current (A) / Max. Input Power (W)                 |                           |                           | 1Ø / 15.8 / 3.56k                          |               |             |
| Power Supply 2 : Phase (Ø) / Max. Current (A) / Max. Input Power (W)                 |                           |                           | 1Ø / 13.0 / 3.00k                          |               |             |
| Power Supply 3 : Phase (Ø) / Max. Current (A) / Max. Input Power (W)                 |                           |                           | - / - / -                                  |               |             |
| Starting Current   |                           | A                         | 12.9                                       |               |             |
| Running Current  | Condition (Ambient/Water) | A35W7                     | A7W35                                      | A2W35         |             |
|  | A                         | Cooling: 12.9             | Heating: 8.8                               | Heating: 9.1  |             |
| Maximum Current For Heatpump System  |                           | A                         | 15.8                                       |               |             |
| Power Factor<br>Power factor means total figure of compressor and outdoor fan motor. |                           | %                         | Cooling: 98                                | Heating: 98   | Heating: 98 |
| Power Cord   | Number of core            |                           | -  |               |             |
|  | Length                    | m (ft)                    | -  |               |             |
| Thermostat   |                           |                           | Electronic Control                         |               |             |
| Protection Device  |                           |                           | Electronic Control                         |               |             |
| Pressure Relief Valve Water Circuit  |                           | kPa                       | Open: 300, Close: 210 and below            |               |             |

| Item  |                           | Unit             | Indoor Unit   |                |                |
|---|---------------------------|------------------|---|----------------|----------------|
| Performance Test Condition                        |                           |                  | EN 14511 / EN 14825   |                |                |
| Operation Range                                   | Outdoor Ambient           | °C (min. / max.) | Cooling: 10 / 43<br>Heating (Circuit): -25 / 35   |                |                |
|   | Water Outlet              | °C (min. / max.) | Cooling: 5 / 20<br>Heating (Circuit): 20 / 55 (Below Ambient -20 °C) * <sup>3</sup><br>Heating (Circuit): 20 / 75 (Above Ambient -10 °C) * <sup>3</sup> |                |                |
| Internal Pressure Differential                    |                           | kPa              | Cooling: 25.0<br>Heating: 25.0  |                |                |
| Noise Level                                       | Condition (Ambient/Water) |                  | A35W7   | A7W35          | A2W35          |
|   | dB (A)                    |                  | Cooling: 28***  | Heating: 28*** | Heating: 28*** |
|   | Power Level dB            |                  | Cooling: 41***  | Heating: 41*** | Heating: 41*** |
| Dimension   | Depth                     | mm (inch)        | 602 (23-45/64)  |                |                |
|   | Width                     | mm (inch)        | 599 (23-37/64)  |                |                |
|   | Height                    | mm (inch)        | 1642 (64-41/64)   |                |                |
| Net Weight  |                           | kg (lbs)         | 93 (205)  |                |                |
| Water Pipe Diameter                               | Room                      | mm (inch)        | 31 (1-1/4)  |                |                |
|   | Shower                    | mm (inch)        | -   |                |                |
| Water Drain Hose Inner Diameter                   |                           | mm (inch)        | 15 (9/16)   |                |                |
| Pump  | Motor Type                |                  | Brushless DC Motor (Sensorless vector control system)   |                |                |
|   | No. of Speed              |                  | 7 (Software Selection)  |                |                |
|   | Input Power               | W                | 145   |                |                |
| Flow Sensor                                       | Type                      |                  | Vortex (Piezoelectric sensor)   |                |                |
|   | Measuring range           | l/min            | 5 ~ 60  |                |                |
| Pressure Release Valve                            |                           | kPa              | Open: 800, Close: 640 and below   |                |                |
| Protection Device                                 |                           | A                | Earth Leakage Circuit Breaker (30 ~ 40)   |                |                |
| Expansion Vessel                                  | Volume                    | l                | 10  |                |                |
|   | MWP                       | bar              | 3   |                |                |
| Capacity of Integrated Electric Heater / OLP TEMP |                           | kW / °C          | 3.00 / 85   |                |                |

**Note:**

- In case it is necessary to indicate the air flow volume in (l/s), the value in (m<sup>3</sup>/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.
- \*\*\* 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.
- EER and COP classification is at 230V only in accordance with EU directive 2003/32/EC.
- \*\*\*\* The sound power level is measured with accordance to EN12102 under full load conditions. (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)