

2.3 WH-ADC0916H9E8 WH-UQ16HE8

| Item | | Unit | Outdoor Unit | | | |
|----------------------------|------------------------------------|---------------------------|---|-------------|-------------|-------|
| Performance Test Condition | | | EN 14511 | | | |
| Cooling Capacity | Condition (Ambient/Water) | | A35W7 | | | |
| | kW | | 12.20 | | | |
| | BTU/h | | 41600 | | | |
| | kcal/h | | 10490 | | | |
| Cooling EER | W/W | | 2.57 | | | |
| | kcal/h | | 2.20 | | | |
| Heating Capacity | Condition (Ambient/Water) | | A7W35 | A2W35 | | |
| | kW | | 16.00 | 16.00 | | |
| | BTU/h | | 54600 | 54600 | | |
| | kcal/h | | 13760 | 13760 | | |
| Heating COP | W/W | | 4.28 | 3.10 | | |
| | kcal/h | | 3.68 | 2.67 | | |
| Heating ErP | Low temperature Application (W35) | | | | | |
| | Application | Climate | Warmer | Average | Colder | |
| | Pdesign | kW | 16.0 | 16.0 | 19.0 | |
| | Tbivalent / TOL | °C | 2/2 | -10 / -10 | -15 / -22 | |
| | SCOP / ns | (W/W) / % | 5.86 / 231 | 4.08 / 160 | 3.83 / 150 | |
| | Annual Consumption | kWh | 3650 | 8107 | 12233 | |
| | Class | | A++ | A++ | A++ | |
| | Low temperature Application (W55) | | | | | |
| | Application | Climate | Warmer | Average | Colder | |
| | Pdesign | kW | 16.0 | 16.0 | 18.0 | |
| | Tbivalent / TOL | °C | 2 / 2 | -10 / -10 | -15 / -22 | |
| | SCOP / ns | (W/W) / % | 4.05 / 159 | 3.20 / 125 | 3.20 / 125 | |
| | Annual Consumption | kWh | 5280 | 10330 | 13870 | |
| | Class | | A++ | A++ | A++ | |
| | Noise Level | Condition (Ambient/Water) | | A35W7 | A7W35 | A2W35 |
| | | dB(A) | | Cooling: 53 | Heating: 51 | - |
| Power level dB | | | Cooling: 68 | Heating: 65 | - | |
| Air Flow | m³/min (ft³/min) | | Cooling: 109.4 (3860) Heating: 76.0 (2680) | | | |
| Refrigerant Control Device | | | Expansion Valve | | | |
| Refrigerant Oil | cm³ | | FV50S (1200) | | | |
| Refrigerant (R410A) | kg (oz) | | 2.99 (105.5) | | | |
| F-GAS | GWP | | 2088 | | | |
| | CO2eq (ton) (Precharged / Maximum) | | 6.243 / 8.331 | | | |
| Dimension | Height | mm (inch) | 1410 (55-1/2) | | | |
| | Width | mm (inch) | 1283 (50-1/2) | | | |
| | Depth | mm (inch) | 320 (12-19/32) | | | |

| Item | | Unit | Outdoor Unit | | |
|--|-------------------|---------------------------|--|---------------|---------------|
| Net Weight | | kg (lbs) | 161 (355) | | |
| Pipe Diameter | Liquid | mm (inch) | 9.52 (3/8) | | |
| | Gas | mm (inch) | 15.88 (5/8) | | |
| Standard Length | | m (ft) | 5 (16.4) | | |
| Pipe Length Range | | m (ft) | 3 (9.8) ~ 30 (98.4) | | |
| I/D & O/D Height Different | | m (ft) | 20 (65.6) | | |
| Additional Gas Amount | | g/m (oz/ft) | 50 (0.5) | | |
| Refrigerant Chargeless | | m (ft) | 10 (32.8) | | |
| Compressor | Type | | Hermetic Motor | | |
| | Motor Type | | Brushless (4-poles) | | |
| | Rated Output | kW | 4.76 | | |
| 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: 580 (Top), 620 (Bottom) | | |
| Heat Exchanger | Fin Material | | Aluminium (Pre Coat) | | |
| | Fin Type | | Corrugated Fin | | |
| | Row x Stage x FPI | | 2 x 51 x 19 | | |
| | Size (W x H X L) | mm | 898.8 x 1295.4 x 44 | | |
| Power Source (Phase, Voltage, Cycle) | | ∅ | Three | | |
| | | V | 400 | | |
| | | Hz | 50 | | |
| Input Power | | Condition (Ambient/Water) | A35W7 | A7W35 | A2W35 |
| | | kW | Cooling: 4.76 | Heating: 3.74 | Heating: 5.16 |
| Maximum Input Power for Heatpump System | | kW | 10.27 | | |
| Power Supply 1 : Phase (∅) / Max. Current (A) / Max. Input Power (W) | | | 3∅ / 15.5 / 10.27k | | |
| 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 | 7.2 | | |
| Running Current | | Condition (Ambient/Water) | A35W7 | A7W35 | A2W35 |
| | | A | Cooling: 7.2 | Heating: 5.7 | Heating: 7.8 |
| Maximum Current for Heatpump System | | A | 15.5 | | |
| Power Factor Power factor means total figure of compressor and outdoor fan motor. | | % | Cooling: 96 | Heating: 96 | Heating: 96 |
| Power Cord | Number of core | | - | | |
| | Length | m (ft) | - | | |
| Thermostat | | | Electronic Control | | |
| Protection Device | | | Electronic Control | | |

| Item | | Unit | Indoor Unit | | |
|--|---------------------------|------------------|---|-------------|-------|
| Performance Test Condition | | | EN 14511 | | |
| Operation Range | Outdoor Ambient | °C (min. / max.) | Cooling: 16 / 43 Heating: -28 / 35 | | |
| | Water Outlet | °C (min. / max.) | Cooling: 5 / 20 Heating (Tank): - / 65* Heating (Circuit): 20 / 55 (Below ambient -15°C) 20 / 60 (Below ambient -10°C) | | |
| Internal Pressure Differential | | kPa | Cooling: 40.0 Heating: 69.0 | | |
| Noise Level | Condition (Ambient/Water) | | A35W7 | A7W35 | A2W35 |
| | dB(A) | | Cooling: 33 | Heating: 33 | - |
| | Power level dB | | Cooling: 46 | Heating: 46 | - |
| Dimension | Height | mm (inch) | 717 (28-7/32) | | |
| | Width | mm (inch) | 598 (23-17/32) | | |
| | Depth | mm (inch) | 1800 (70-27/32) | | |
| Net Weight | | kg (lbs) | 126 (278) | | |
| Refrigerant Pipe Diameter | Liquid | mm (inch) | 9.52 (3/8) | | |
| | Gas | mm (inch) | 15.88 (5/8) | | |
| Water Pipe Diameter | Room | mm (inch) | 31 (1-1/4) | | |
| | Shower | mm (inch) | 19 (3/4) | | |
| Water Drain Hose Inner Diameter | | mm (inch) | 12.10 (17/38) | | |
| Pump | Motor Type | | DC Motor | | |
| | Input Power | W | 132 | | |
| Hot Water Coil | Type | | Brazen Plate | | |
| | No. of Plates | | 52 | | |
| | Size (H x W x L) | mm | 93 x 119 x 376 | | |
| | Water Flow Rate | l/min (m³/h) | Cooling: 35.0 (2.1) Heating: 45.9 (2.8) | | |
| Pressure Relief Valve Water Circuit | | kPa | Open: 300, Close: 266 and below | | |
| Flow Switch | Type | | Electronic Sensor | | |
| Protection Device | | A | Residual Current Circuit Breaker (25) | | |
| Expansion Vessel | Volume | l | 10 | | |
| | MWP | bar | 3 | | |
| Capacity of Integrated Electric Heater / OLP TEMP | | kW / °C | 9.00 / 80 | | |
| Tank Volume (Spec / Nett) | | L | 200 / 185 | | |
| Max. Tank Water Set Temperature | | °C | 65 | | |
| Tank Coil Surface | | m² | 1.8 | | |
| Maximum Working Pressure | Heat / Cool | bar | 3.0 | | |
| | Tank Circuit | bar | 10.0 | | |
| Operating Pressure | Tank Unit | bar | 3.5 | | |
| | Expansion Relief Valve | bar | 8.0 | | |
| Expansion Vessel Pre-Charge Pressure (DHW Circuit) | | bar | 3.5 | | |
| Pressure Reducing Valve Set Pressure (DHW Circuit) | | bar | 3.5 | | |

| Item | | Unit | Indoor Unit |
|-----------------|---|----------------|-----------------------|
| Pressure Vessel | Material | | EN-1.4521 |
| | Volume | L | 185 |
| | Design Pressure | bar | 10 |
| Heat Exchanger | Material | | EN-1.4162 / EN-1.4521 |
| | Diameter | mm | 22 |
| | Thickness | mm | 0.8 |
| | Surface Area | m ² | 1.8 |
| | Total Length | m | 25 |
| DHW Tank | Total Corrosion ion (Chloride + Sulphate + Nitric) | mg/L | < 150 |
| | Conductivity @ Water Tank Water Temperature < 60°C | µS/cm | < 1250 |
| | Conductivity @ Water Tank Water Temperature < 65°C | µS/cm | < 1200 |
| | Saturation Index (LSI) @ 20°C | | > -4.0 / < 0.4 |
| | PH | | 6.5 - 8.5 |

Note:

- Cooling capacities are based on outdoor air temperature of 35°C Dry Bulb with controlled indoor water inlet temperature of 12°C and water outlet temperature of 7°C.
- Heating capacities are based on outdoor air temperature of 7°C Dry Bulb (44.6°F Dry Bulb), 6°C Wet Bulb (42.8°F Wet Bulb) with controlled indoor water inlet temperature of 30°C and water outlet temperature of 35°C.
- Specifications are subjected to change without prior notice for further improvement.
- * Above 55°C, only possible with backup heater operation.
- It is recommended to follow DHW tank water quality limit for Panasonic Air to Water All in One according to Drinking Water Directive 98/83 EC.