

2 Specifications

| Model name | | | EHSE-YM9ED | EHSE-MED | ERSD-MED | ERSD-VM2D | ERSC-MED | ERSC-VM2D | | | |
|--|--|--|---------------------------|------------------|------------------|------------------|------------------|------------------|-------------|-------------|----------|
| Dimensions | Without package | Height | mm | 950 | 950 | 800 | 800 | 800 | 800 | | |
| | | Width | mm | 600 | 600 | 530 | 530 | 530 | 530 | | |
| | | Depth | mm | 360 | 360 | 360 | 360 | 360 | 360 | | |
| | With package | Height | mm | 560 | 560 | 560 | 560 | 560 | 560 | | |
| | | Width | mm | 690 | 690 | 600 | 600 | 600 | 600 | | |
| | | Depth | mm | 1150 | 1150 | 990 | 990 | 990 | 990 | | |
| Casing | Munsell | - | 6.2PB 9/0.9 | 6.2PB 9/0.9 | 6.2PB 9/0.9 | 6.2PB 9/0.9 | 6.2PB 9/0.9 | 6.2PB 9/0.9 | | | |
| | RAL code | - | 260 90 05 | 260 90 05 | 260 90 05 | 260 90 05 | 260 90 05 | 260 90 05 | | | |
| | Material | - | Pre-coated metal | Pre-coated metal | Pre-coated metal | Pre-coated metal | Pre-coated metal | Pre-coated metal | | | |
| Product weight (empty) | | kg | 63 | 61 | 38 | 44 | 41 | 48 | | | |
| Product weight (full) | | kg | 73 | 71 | 39 | 50 | 44 | 54 | | | |
| Gross weight | | kg | 78 | 76 | 51 | 58 | 54 | 61 | | | |
| Water volume of heating circuit in the unit *1 | | L | 10.0 | 10.0 | 1.7 | 5.2 | 2.6 | 6.1 | | | |
| Type of installation | | - | Wall mounted | Wall mounted | Wall mounted | Wall mounted | Wall mounted | Wall mounted | | | |
| Electrical data | Control board *2 (Including 3 pumps) | Power supply | Ph | ~N | ~N | ~N | ~N | ~N | ~N | | |
| | | | V | 230 | 230 | 230 | 230 | 230 | 230 | | |
| | | | Hz | 50 | 50 | 50 | 50 | 50 | 50 | | |
| | | Input | kW | 0.34 | 0.34 | 0.30 | 0.30 | 0.30 | 0.30 | | |
| | | | Current | A | 2.56 | 2.56 | 1.95 | 1.95 | 1.95 | 1.95 | |
| | | | Breaker | A | 10 | 10 | 10 | 10 | 10 | 10 | |
| | Booster heater | Power supply | Ph | 3~ | - | - | ~N | - | ~N | | |
| | | | V | 400 | - | - | 230 | - | 230 | | |
| | | | Hz | 50 | - | - | 50 | - | 50 | | |
| | | Capacity | kW | 3+6 | - | - | 2 | - | 2 | | |
| | | | Heater step | - | 3 | - | 1 | - | 1 | | |
| | | | Current | A | 13 | - | 9 | - | 9 | | |
| | Immersion heater | Power supply | Ph | - | - | - | - | - | - | | |
| | | | V | - | - | - | - | - | - | | |
| | | | Hz | - | - | - | - | - | - | | |
| | | Capacity | kW | - | - | - | - | - | - | | |
| | | | Current | A | - | - | - | - | - | | |
| | | | Breaker | A | - | - | - | - | - | | |
| | Water circulation pump (Primary circuit) | Type | - | DC motor | DC motor | DC motor | DC motor | DC motor | DC motor | | |
| | | | Input (10/20/max L/min)*3 | Speed 1 | W | 31/37/38 | 31/37/38 | 10/13/15 | 10/13/15 | 10/13/15 | 10/13/15 |
| | | | | Speed 2 | W | 51/63/38 | 51/63/38 | 16/21/27 | 16/21/27 | 16/21/27 | 16/21/27 |
| | | | | Speed 3 | W | 75/94/105 | 75/94/105 | 24/32/42 | 24/32/42 | 24/32/42 | 24/32/42 |
| | | | | Speed 4 | W | 106/134/153 | 106/134/153 | 34/46/58 | 34/46/58 | 34/46/58 | 34/46/58 |
| | | Speed 5 | | W | 148/180/180 | 148/180/180 | 47/58/60 | 47/58/60 | 47/58/60 | 47/58/60 | |
| Performance curve: please refer to section 5.6.4 | | Current (10/20/max L/min)*3 | Speed 1 | A | 0.3/0.3/0.3 | 0.3/0.3/0.3 | 0.2/0.2/0.3 | 0.2/0.2/0.3 | 0.2/0.2/0.3 | 0.2/0.2/0.3 | |
| | | | Speed 2 | A | 0.4/0.5/0.5 | 0.4/0.5/0.5 | 0.2/0.3/0.4 | 0.2/0.3/0.4 | 0.2/0.3/0.4 | 0.2/0.3/0.4 | |
| | | | Speed 3 | A | 0.6/0.7/0.8 | 0.6/0.7/0.8 | 0.3/0.4/0.5 | 0.3/0.4/0.5 | 0.3/0.4/0.5 | 0.3/0.4/0.5 | |
| | | | Speed 4 | A | 0.9/1.1/1.2 | 0.9/1.1/1.2 | 0.4/0.5/0.6 | 0.4/0.5/0.6 | 0.4/0.5/0.6 | 0.4/0.5/0.6 | |
| | Speed 5 | | A | 1.2/1.4/1.4 | 1.2/1.4/1.4 | 0.5/0.6/0.6 | 0.5/0.6/0.6 | 0.5/0.6/0.6 | 0.5/0.6/0.6 | | |
| Water circulation pump (DHW circuit) | Input | Speed I | W | - | - | - | - | - | - | | |
| | | Speed II (Default setting) | W | - | - | - | - | - | - | | |
| | | Speed III | W | - | - | - | - | - | - | | |
| | Current | Speed I | A | - | - | - | - | - | - | | |
| | | Speed II (Default setting) | A | - | - | - | - | - | - | | |
| | | Speed III | A | - | - | - | - | - | - | | |
| | Flow rate | Speed I | L/min | - | - | - | - | - | - | | |
| | | Speed II (Default setting) | L/min | - | - | - | - | - | - | | |
| | | Speed III | L/min | - | - | - | - | - | - | | |
| Flow rate | Primary circuit | Max.*4 | L/min | 61.5 | 61.5 | 36.9 | 36.9 | 36.9 | 36.9 | | |
| | | Min.*5 | L/min | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | | |
| Heat exchanger | Refrigerant - Primary circuit water | - | MWA2-72PA | MWA2-72PA | MWA1-44DM | MWA1-44DM | MWA2-38PA-4 | MWA2-38PA-4 | | | |
| | Primary circuit water - Domestic hot water | - | - | - | - | - | - | - | | | |
| Domestic hot water tank | Volume | L | - | - | - | - | - | - | | | |
| | Material | - | - | - | - | - | - | - | | | |
| | Declared load profile | - | - | - | - | - | - | - | | | |
| | Average climate | η_{wh} (water heating efficiency)*6 | - | - | - | - | - | - | - | | |
| | | P_{as} (standby power input)*6 | kW | - | - | - | - | - | - | | |
| | | Water heater energy efficiency class | - | - | - | - | - | - | - | | |
| Heat loss *7 | | kWh/24hr | - | - | - | - | - | - | | | |
| Expansion vessel (Primary circuit) | Volume | L | - | - | - | 10 | - | 10 | | | |
| | Charge pressure | MPa | - | - | - | 0.1 | - | 0.1 | | | |
| Safety device | Primary circuit | Control thermistor | °C | 1 to 80 | 1 to 80 | 1 to 80 | 1 to 80 | 1 to 80 | 1 to 80 | | |
| | | Pressure relief valve | MPa | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | | |
| | | Flow sensor (Min. flow) | L/min | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | | |
| | | BH manual reset thermostat | °C | 90 | - | - | 90 | - | 90 | | |
| | | BH thermal Cut Off | °C | 121 | - | - | 121 | - | 121 | | |
| | | DHW tank | Control thermistor | °C | - | - | - | - | - | - | |
| | IH manual reset thermostat | | °C | - | - | - | - | - | - | | |
| | Temperature & pressure relief valve | | °C | - | - | - | - | - | - | | |
| | | | MPa | - | - | - | - | - | - | | |
| | Connections | Water | Primary circuit | mm | G1-1/2 -B | G1-1/2 -B | G1-B | G1-B | G1-B | G1-B | |
| DHW circuit | | | mm | - | - | - | - | - | - | | |
| Refrigerant | | Gas | mm | φ25.4(Brazing) | φ25.4(Brazing) | φ12.7 | φ12.7 | φ15.88 | φ15.88 | | |
| | | Liquid | mm | φ9.52 | φ9.52 | φ6.35 | φ6.35 | φ9.52 | φ9.52 | | |
| Refrigerant *8 | | - | R410A | R410A | R32/R410A | R32/R410A | R410A | R410A | | | |
| Guaranteed operating range *9 | Ambient | °C | 0 to 35 | 0 to 35 | 0 to 35 | 0 to 35 | 0 to 35 | 0 to 35 | | | |
| | | %RH | ≤80 | ≤80 | ≤80 | ≤80 | ≤80 | ≤80 | | | |
| | Outdoor temperature | Heating | °C | - | - | 10 to 46 | 10 to 46 | 10 to 46 | 10 to 46 | | |
| Operating range | Heating | Room temperature | °C | 10 to 30 | 10 to 30 | 10 to 30 | 10 to 30 | 10 to 30 | 10 to 30 | | |
| | | Flow temperature | °C | 20 to 60 | 20 to 60 | 20 to 60 | 20 to 60 | 20 to 60 | 20 to 60 | | |
| | Cooling | Room temperature | °C | - | - | - | - | - | - | | |
| | | Flow temperature | °C | - | - | 5 to 25 | 5 to 25 | 5 to 25 | 5 to 25 | | |
| | DHW *10 | °C | - | - | - | - | - | - | - | | |
| | | Legionella prevention *10 | °C | - | - | - | - | - | - | | |
| Sound power level (PWL) | | dB(A) | 45 | 45 | 41 | 41 | 40 | 40 | | | |

*1 Volume of sanitary water circuit, primary DHW circuit (from 3-way valve to confluent point with Heating circuit), piping to Expansion vessel, and Expansion vessel is not included in this value.
 *2 When powered from independent source.
 *3 Allowable flow rate range differs depending on connected outdoor unit. Please refer to section 5.6.4.
 *4 If the water flow rate range exceeds maximum, the flow speed will be greater than 1.5 m/s, which could corrode the pipes.
 *5 If the water flow is less than the minimum, the flow error will be activated.

*6 Hot water performance differs depending on connected outdoor unit.
 *7 24h temperature decay at top of the tank from 65degC at ambient temperature 20degC (BS EN 12897)
 *8 Refrigerant of outdoor unit connected to cylinder unit.
 *9 The environment must be frost-free.
 *10 For the model without both booster heater and immersion heater, the max. hot water temperature is [Max. outlet water of outdoor unit -3°C]. For the max. outlet of outdoor unit spec table.