

| SPECIFICATIONS VOLTA W-S 10 R290 |  | UNITS   | S/L H   | S/L P         | S/L A         | S/L F         |
|----------------------------------|--|---------|---|---------------|---------------|---------------|
| APPLICATION                      | Place of installation                                    | —       | Indoors   |               |               |               |
|                                  | Type of brine system <sup>1</sup>                        | —       | Ground source / Air source / Hybrid source        |               |               |               |
|                                  | DHW, Heating and Pool                                    | —       | ✓   | ✓             | ✓             | ✓             |
|                                  | Superheater (SH) system option <sup>11</sup>             | —       | ✓   | ✓             | ✓             | ✓             |
|                                  | Integrated Active cooling                                | —       | —   | —             | ✓             | ✓             |
|                                  | Integrated Passive cooling                               | —       | —   | ✓             | —             | ✓             |
| PERFORMANCE                      | Modulation range of the compressor                       | %       | 15 to 100   |               |               |               |
|                                  | Heating power output <sup>2</sup> , BOW35                | kW      | 1.9 to 10.2                                       |               |               |               |
|                                  | COP <sup>2</sup> , BOW35                                 | —       | 4.3   |               |               |               |
|                                  | Active cooling power output <sup>2</sup> , B35W7         | kW      | —   | 1.6 to 8.6    |               |               |
|                                  | EER 2, B35W7   | —       | —   | 4.1           |               |               |
|                                  | Max. DHW temperature without / with support <sup>5</sup> | °C      | 75 / 80   |               |               |               |
|                                  | Noise power emission level <sup>6</sup>                  | db      | 35 to 46  |               |               |               |
|                                  | Energy label / ηs / SCOP W35 average climate control     | —       | A+++ / 180% / 4.78                                |               |               |               |
|                                  | Energy label / ηs / SCOP W55 average climate control     | —       | A++ / 140% / 3.75                                 |               |               |               |
| OPERATION LIMITS                 | Distribution / Set heating outlet temperature range      | °C      | 10 to 70 / 70                                     |               |               |               |
|                                  | Distribution / Set cooling outlet temperature range      | °C      | -20 to 35 / -15                                   | 5 to 35 / 7   |               |               |
|                                  | Brine inlet temperature range in heating applications    | °C      | -25 to 35   |               |               |               |
|                                  | Brine inlet temperature range in cooling applications    | °C      | 10 to 70  |               |               |               |
|                                  | Minimum / Maximum refrigerant circuit pressure           | bar     | 1 / 32  |               |               |               |
|                                  | Production / Pre-load circuit pressure                   | bar     | 0.5 to 3,0 / 1.5                                  |               |               |               |
|                                  | Brine / Pre-load circuit pressure                        | bar     | 0.5 to 3.0 / 0.7                                  |               |               |               |
|                                  | Volume / Max. DHW storage tank pressure (VOLTA W L)      | l / bar | 165 / 8   |               |               |               |
| WORKING FLUIDS                   | R290 Refrigerant load                                    | kg      | 0,6   |               |               |               |
|                                  | Compressor oil type / load                               | kg      | HXL4467 / 0.74                                    |               |               |               |
| CONTROL ELECTRICAL DATA          | 1/N/PE 230 V / 50-60 Hz <sup>8</sup>                     | —       | ✓   |               |               |               |
|                                  | Maximum recommended external protection <sup>9</sup>     | —       | C16A  |               |               |               |
|                                  | Transformer primary circuit fuse                         | A       | 0.5   |               |               |               |
|                                  | Transformer secondary circuit fuse                       | A       | ✓   |               |               |               |
| ELECTRICAL DATA: SINGLE-PHASE    | 1/N/PE 230 V / 50-60 Hz <sup>8</sup>                     | —       | ✓   |               |               |               |
|                                  | Maximum recommended external protection <sup>9</sup>     | —       | C25A  |               |               |               |
|                                  | Maximum consumption <sup>2</sup> , BOW35                 | kW / A  | 2.9 / 12.4  |               |               |               |
|                                  | Maximum consumption <sup>2</sup> , BOW35                 | kW / A  | 3.7 / 15.9  |               |               |               |
|                                  | Minimum / Maximum starting current <sup>7</sup>          | A       | 2.8 / 5.8   |               |               |               |
|                                  | Correction of cosine Ø                                   | —       | 0.96 / 1  |               |               |               |
| ELECTRICAL DATA: THREE-PHASE     | 3/N/PE 400 V / 50-60 Hz <sup>8</sup>                     | —       | ✓   |               |               |               |
|                                  | Maximum recommended external protection <sup>9</sup>     | —       | C13A  |               |               |               |
|                                  | Maximum consumption <sup>2</sup> , BOW35                 | kW / A  | 2.9 / 4.1   |               |               |               |
|                                  | Maximum consumption <sup>2</sup> , BOW35                 | kW / A  | 3.7 / 5.3   |               |               |               |
|                                  | Minimum / Maximum starting current <sup>7</sup>          | A       | 0.9 / 4.2   |               |               |               |
|                                  | Correction of cosine Ø                                   | —       | 0.96 / 1  |               |               |               |
| DIMENSIONS/ WEIGHT               | Height x width x depth                                   | mm      | VOLTA W S: 1051x609x716 · VOLTA W L: 1943x609x724 |               |               |               |
|                                  | Empty weight (without assembly)                          | kg      | S 195 · L 260                                     | S 205 · L 270 | S 195 · L 260 | S 205 · L 270 |

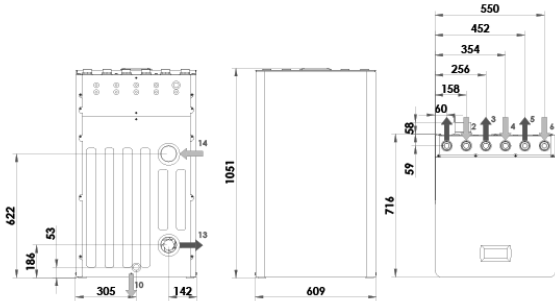
- Air source by replacing the ground source circuit by one or more VOLTA W-O air units. Consult the VOLTA W-O aerothermal units manual for more detailed information.
- In compliance with EN 14511, this includes the consumption of the circulation pumps and the compressor driver.
- Considering brine and production flow rates in compliance with EN 14511.

- Considering a heat slope from 20°C to 50°C in absence of consumption.
- Considering support provided by the emergency electrical heater.
- In compliance with EN 12102.
- Starting current depends on the working conditions of the hydraulic circuits.
- The admissible voltage range for proper operation of the heat pump is ±10%.

- Maximum consumption can vary significantly according to working conditions, or if the compressor's operation range is restricted. Consult the technical service manual for more detailed information.
- Certification in process.
- Integrated by default in modules S/L A and S/L F.

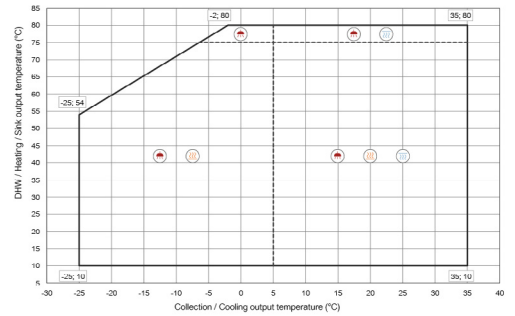
### Dimensions and hydraulic connections

VOLTA W S

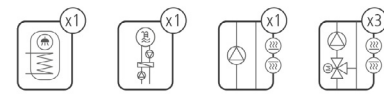


1. Heating/Cooling Outlet - 1 1/4" M
2. Heating/Cooling Inlet - 1 1/4" M
3. Brine Outlet - 1 1/4" M
4. Brine Inlet - 1 1/4" M
5. DHW system Outlet - 1 1/4" M
6. DHW System Inlet - 1 1/4" M
7. CW Inlet - 1" F
8. DHW Outlet - 1" F
9. DHW Recirculation Inlet - 3/4" F
10. Drain - 16 mm
11. Safety duct outlet - Ø80
12. Safety duct inlet - Ø80

### Operational chart

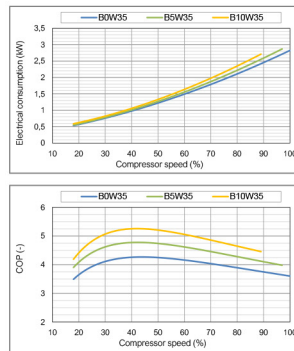
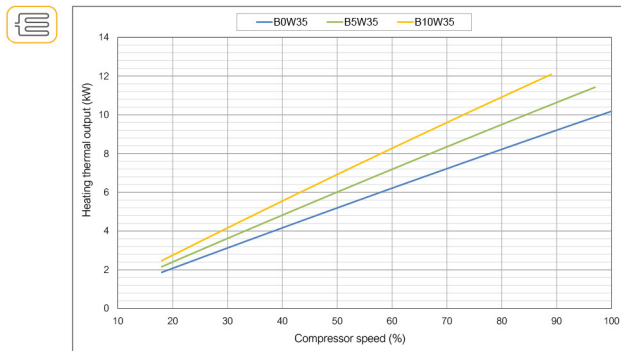


### Installation management



### Performance curves

#### Thermal performance



#### Hydraulic performance

