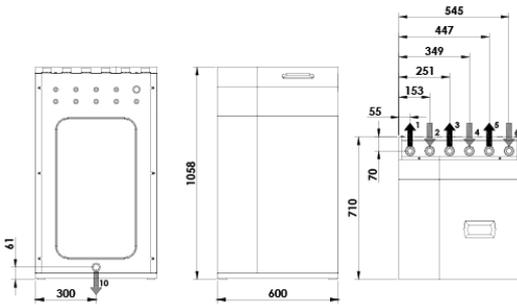


| SPECIFICATIONS VOLTA W-S 22 R410A | | UNITS | S/L H | S/L P | S/L A | S/L F |
|-----------------------------------|--|---------|---|---------------|---------------|---------------|
| APPLICATION | Place of installation | — | Indoors | | | |
| | Type of brine system ¹ | — | Ground source / Air source / Hybrid source | | | |
| | DHW, Heating and Pool | — | ✓ | ✓ | ✓ | ✓ |
| | Superheater (SH) system option | — | ✓ | ✓ | ✓ by default | ✓ by default |
| | Integrated Active cooling | — | — | — | ✓ | — |
| | Integrated Passive cooling | — | — | ✓ | — | ✓ |
| PERFORMANCE | Modulation range of the compressor | % | 15 to 100 | | | |
| | Heating power output ² , BOW35 | kW | 4.0 to 22.8 | | | |
| | COP ² , BOW35 | — | 4.9 | | | |
| | Active cooling power output ² , B35W7 | kW | — | 4.2 to 22.0 | | |
| | EER ² , B35W7 | — | — | 5.3 | | |
| | Max. DHW temperature without / with support ⁵ | °C | 63 / 70 | | | |
| | Noise power emission level ⁶ | db | 35 to 46 | | | |
| | Energy label / ηs / SCOP W35 average climate control | — | A+++ / 184% / 4.71 | | | |
| | Energy label / ηs / SCOP W55 average climate control | — | A++ / 147% / 3.77 | | | |
| OPERATION LIMITS | Distribution / Set heating outlet temperature range | °C | 10 to 60 / 20 to 60 | | | |
| | Distribution / Set cooling outlet temperature range | °C | 5 to 35 / 7 to 25 | | 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 60 | | | |
| | Minimum / Maximum refrigerant circuit pressure | bar | 2 / 45 | | | |
| | 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 | R410A Refrigerant load without SH / with SH | kg | 1.4 | | 1.5 | |
| | Compressor oil type / load | kg | POE / 1,18 | | | |
| CONTROL ELECTRICAL DATA | 1/N/PE 230 V / 50-60 Hz ⁸ | — | ✓ | | | |
| | Maximum recommended external protection ⁹ | — | C16A | | | |
| | Transformer primary circuit fuse | A | 0.5 | | | |
| | Transformer secondary circuit fuse | A | 2.5 | | | |
| ELECTRICAL DATA: SINGLE-PHASE | 1/N/PE 230 V / 50-60 Hz ⁸ | — | ✓ | | | |
| | Maximum recommended external protection ⁹ | — | C32A | | | |
| | Maximum consumption ² , BOW35 | kW / A | 5.5 / 23.9 | | | |
| | Maximum consumption ² , BOW55 | kW / A | 5.5 / 23.9 | | | |
| | Minimum / Maximum starting current ⁷ | A | 2.6 / 12.5 | | | |
| | Correction of cosine Ø | — | 0.96 / 1 | | | |
| ELECTRICAL DATA: THREE-PHASE | 3/N/PE 400 V / 50-60Hz ⁸ | — | ✓ | | | |
| | Maximum recommended external protection ⁹ | — | C16A | | | |
| | Maximum consumption ² , BOW35 | kW / A | 6.0 / 8.7 | | | |
| | Maximum consumption ² , BOW55 | kW / A | 6.0 / 8.7 | | | |
| | Minimum / Maximum starting current ⁷ | A | 0.9 / 4.2 | | | |
| | Correction of cosine Ø | — | 0.96 / 1 | | | |
| DIMENSIONS/ WEIGHT | Height x width x depth | mm | VOLTA W S: 1058x600x710 · VOLTA W L: 1851x600x720 | | | |
| | Empty weight (without assembly) | kg | S 185 · L 247 | S 193 · L 255 | S 185 · L 247 | S 193 · L 255 |

- Air source/Hybrid source by replacing/combining the ground source circuit by/with one or more VOLTA W-O. Consult the VOLTA W-O 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 or the SH system. Maximum DHW temperature with the SH system can be limited by the compressor discharge temperature.
- 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.

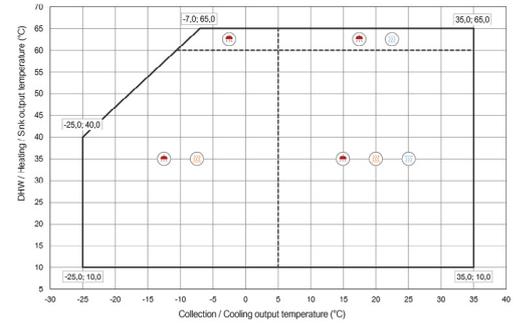
Dimensions and hydraulic connections

VOLTA W 5

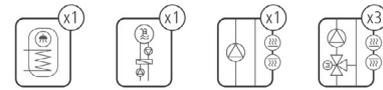


1. Heating/Cooling Outlet - 1 1/4" M
2. Heating/Cooling Inlet - 1 1/4" M
3. Brine Outlet - 1 1/4" M
4. Brine Inlet - 1 1/4" M
5. DHW system Outlet - 1 1/4" M
6. DHW System Inlet - 1 1/4" M
7. CW Inlet - 1" F
8. DHW Outlet - 1" F
9. DHW Recirculation Inlet - 3/4" F
10. Drain - 16 mm

Operational chart

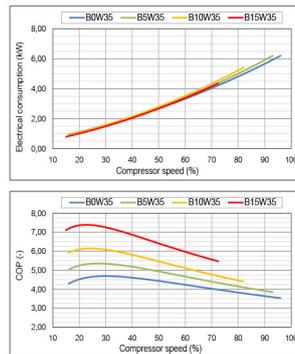
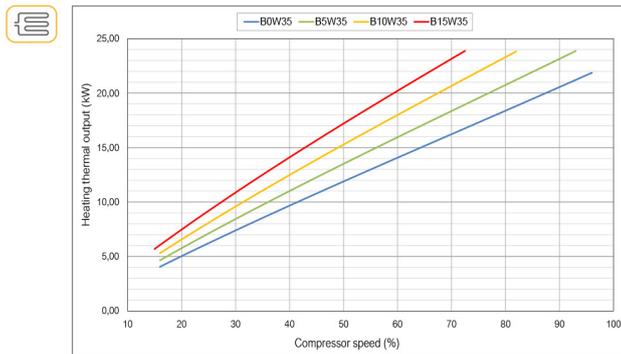


Installation management



Performance curves

Thermal performance



Hydraulic performance

