

SPECIFICATIONS VOLTA W-S 6 R290		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	—	—	—	—	—
	Integrated Active cooling	—	—	—	✓	✓
	Integrated Passive cooling	—	—	✓	—	✓
PERFORMANCE	Modulation range of the compressor	%	12.5 to 100			
	Heating power output ² , BOW35	kW	1.0 to 6.0			
	COP ² , BOW35	—	4.3			
	Active cooling power output ² , B35W7	kW	—	1.0 to 6.0		
	EER ² , B35W7	—	—	4.4		
	Max. DHW temperature without / with support ³	°C	75 / 80			
	Noise power emission level ⁶	db	33 to 44			
	Energy label / ηs / SCOP W35 average climate control	—	A+++ / 182% / 4.64			
	Energy label / ηs / SCOP W55 average climate control	—	A++ / 140% / 3.60			
OPERATION LIMITS	Distribution / Set heating outlet temperature range	°C	10 to 75 / 20 to 75			
	Distribution / Set cooling outlet temperature range	°C	5 to 35 / 7 to 25			
	Brine inlet temperature range in heating applications	°C	-25 to 35			
	Brine inlet temperature range in cooling applications	°C	10 to 75			
	Minimum / Maximum refrigerant circuit pressure	bar	0.5 / 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			
WORKING FLUIDS	Volume / Max. DHW storage tank pressure (VOLTA W L)	l / bar	165 / 8			
	R290 Refrigerant load	kg	0.15			
	Compressor oil type / load	kg	PZ46M / 0.3			
	1/N/PE 230 V / 50-60 Hz ⁸	—	✓			
CONTROL ELECTRICAL DATA	Maximum recommended external protection ⁹	—	✓			
	Transformer primary circuit fuse	A	0.5			
	Transformer secondary circuit fuse	A	2.5			
	1/N/PE 230 V / 50-60 Hz ⁸	—	✓			
ELECTRICAL DATA: SINGLE-PHASE	Maximum recommended external protection ⁹	—	C16A			
	Maximum consumption ² , BOW35	kW / A	1.6 / 6.8			
	Maximum consumption ² , BOW55	kW / A	2.0 / 8.6			
	Minimum / Maximum starting current ⁷	A	0.6 / 1.8			
	Correction of cosine Ø	—	0.96 / 1			
DIMENSIONS/ WEIGHT	Height x width x depth	mm	VOLTA W S: 1058x550x602 · VOLTA W L: 1851x600x720			
	Empty weight (without assembly)	kg	S 133 · L 194	S 125 · L 186	S 133 · L 194	S 133 · L 194

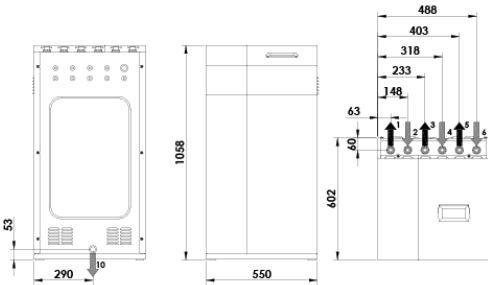
- Air source by replacing the ground source circuit by one or more VOLTA W-O air units. Consult the VOLTA W-O aerothermal units manual for more detailed information.
- In compliance with EN 14511, this includes the consumption of the circulation pumps and the compressor driver.
- Considering brine and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

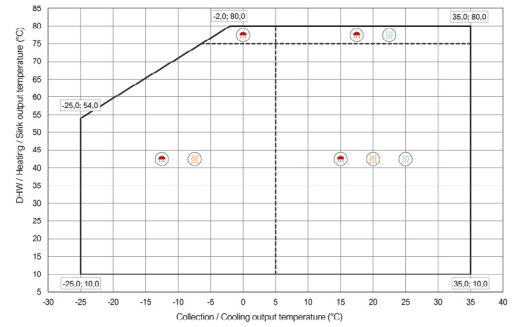
Dimensions and hydraulic connections

VOLTA W S

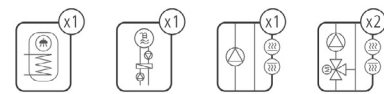


1. Heating/Cooling Outlet - 1" M
2. Heating/Cooling Inlet - 1" M
3. Brine Outlet - 1" M
4. Brine Inlet - 1" M
5. DHW system Outlet - 1" M
6. DHW System Inlet - 1" M
7. CW Inlet - 1" F
8. DHW Outlet - 1" F
9. DHW Recirculation Inlet - 3/4" F
10. Drain - 16 mm

Operational chart

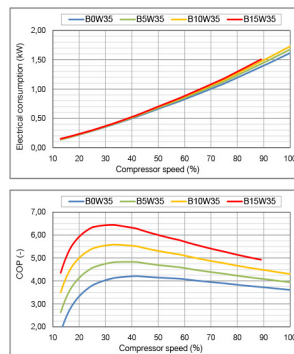
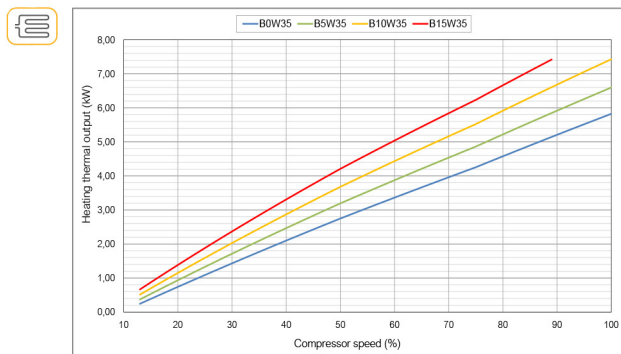


Installation management



Performance curves

Thermal performance



Hydraulic performance

