

VOLTA W S/L 6 R290



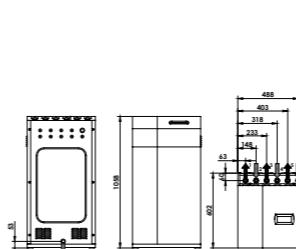
- Modulating thermal power control within a wide range (12,5-100%) and modulating flow rate control of both brine and production circuits (20-100%).
- Natural refrigerant R290: GWP 3.
- Inverter technology.
- Compact design including brine and production circulation pumps, brine and production expansion vessels (8l and 12l respectively), brine and production safety valves and DHW three-way valve.
- Integrated management of up to 3 different emission temperatures, 2 buffer tanks (heating and cooling), 1 DHW tank, 1 pool and hourly control of DHW recirculation.
- Integrated management of aerothermal collection modulating units, in case of air source or hybrid configurations.
- Integrated management of external On/Off or modulating auxiliary systems, such as electrical heaters, On/Off boilers or modulating boilers.
- Integrated free cooling in models P and F.
- Integrated active cooling in models A and F.
- Single-phase version available.
- Integrated photovoltaic hybridisation.
- Integrated energy meters to measure the electrical consumption, the heating/cooling thermal power, the COP and the monthly and annual SPF.

SPECIFICATIONS VOLTA W S/L 6 R290		UNITS	S/L H	S/L P	S/L A	S/L F
APPLICATION		-	Indoors			
		-	Ground source / Air source / Hybrid source			
		-	✓	✓	✓	✓
		-	-	-	-	-
		-	-	-	✓	✓
PERFORMANCE		%	12,5 to 100			
		kW	1,0 to 6,0			
		-	4,3			
		kW	-	1,0 to 6,0		
		EER ² , B35W7	-	4,4		
OPERATION LIMITS		°C	75 / 80			
		db	33 to 44			
		-	A+++ / 182% / 4,64			
		-	A++ / 140% / 3,60			
		-	10 to 75 / 20 to 75			
WORKING FLUIDS		°C	5 to 35 / 7 to 25			
		°C	-25 to 35			
		°C	10 to 75			
		bar	0,5 / 32			
		bar	0,5 to 3,0 / 1,5			
CONTROL ELECTRICAL DATA		bar	0,5 to 3,0 / 0,7			
		l / bar	165 / 8			
		kg	0,15			
		kg	PZ46M / 0,3			
		1/N/PE 230 V / 50-60 Hz ⁸	-	✓		
ELECTRICAL DATA: SINGLE-PHASE		Maximum recommended external protection ⁹	-	-		
		A	0,5			
		A	2,5			
		1/N/PE 230 V / 50-60 Hz ⁸	-	✓		
		Maximum recommended external protection ⁹	-	C16A		
DIMENSIONS/WEIGHT		kW / A	1,6 / 6,8			
		kW / A	2,0 / 8,6			
		A	0,6 / 1,8			
		-	0,96 / 1			
		Height x width x depth	mm	VOLTA W S: 1058x550x602 · VOLTA W L: 1851x600x720		
		Empty weight (without assembly)	kg	S 125 · L 186	S 133 · L 194	S 125 · L 186
				S 133 · L 194		

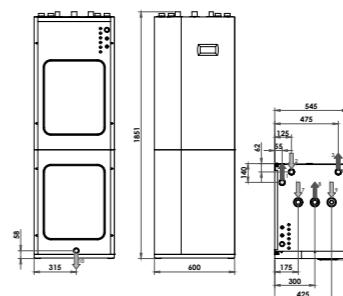
1. Air source by replacing the ground source circuit by one or more VOLTA W-O air units. Consult the VOLTA W-O aerothermal units manual for more detailed information.
2. In compliance with EN 14511, this includes the consumption of the circulation pumps and the compressor driver.
3. Considering brine and production flow rates in compliance with EN 14511.
4. Considering a heat slope from 20°C to 50°C in absence of consumption.
5. Considering support provided by the emergency electrical heater.
6. In compliance with EN 12102.
7. Starting current depends on the working conditions of the hydraulic circuits.
8. The admissible voltage range for proper operation of the heat pump is ±10%.
9. 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.
10. Certification in process.

Dimensions and hydraulic connections

VOLTA W S

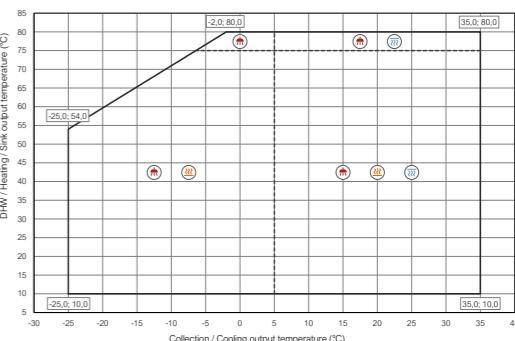


VOLTA W L

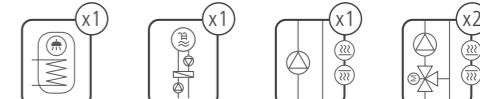


1. Heating/Cooling Outlet - 1" M
2. Heating/Cooling Inlet - 1" M
3. Brine Outlet - 1" M
4. Brine Inlet - 1" M
5. DHW system Outlet - 3/4" F
6. DHW System Inlet - 1" M
7. CW Inlet - 1" F
8. DHW Outlet - 1" F
9. DHW Recirculation Inlet - 3/4" F
10. Drain - 16 mm

Operational chart

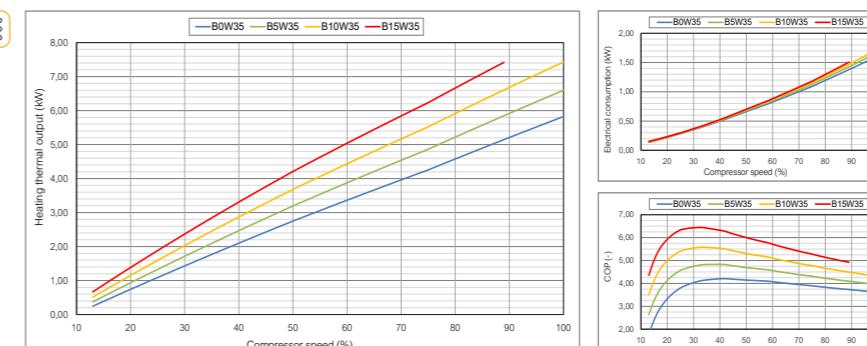


Installation management



Performance curves

Thermal performance



Hydraulic performance

