VOLTA W S/L

VOLTA W S/L 16 R290



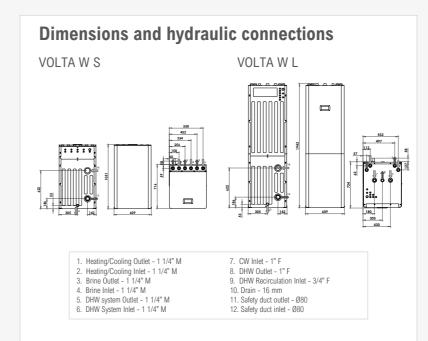
- Modulating thermal power control within a wide range (15-100%) and modulating
 Integrated management of external On/Off or modulating auxiliary systems, such flow rate control of both brine and production circuits (20-100%).
- Natural refrigerant R290: GWP 3.
- Inverter technology.
- Compact design 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 4 different emission temperatures, 2 buffer tanks (heating and cooling), 1 DHW tank, 1 pool and hourly control of DHW recirculation.
- Integrated management of air source collection modulating units, in case of air source or hybrid configurations.

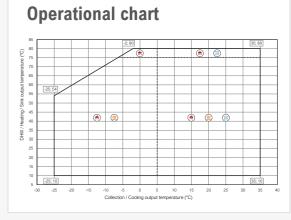
- as electrical heaters, On/Off boilers or modulating boilers.
- Integrated free cooling in models P and F.
- Integrated active cooling in models A and F.
- Single-phase (230V) and three-phase (400V) version available.
- Integrated photovoltaic hybridisation.
- Integrated energy meters to measure the electrical consumption, the heating/ cooling thermal power, the COP and the monthly and annual SPF.

SPECIFICATIONS VOL	TA W S/L 16 R290	UNITS	S/L H	S/L P	S/L A	S/L F	
APPLICATION	Place of installation	-	Indoors				
	Type of brine system ¹	-	G	Ground source / Air source / Hybrid source			
	DHW, Heating and Pool	-	✓	✓	✓	✓	
	Superheater (SH) system option 11	-	✓	✓	✓	✓	
	Integrated Active cooling	-	-	-	✓	✓	
	Integrated Passive cooling	-	-	✓	-	✓	
PERFORMANCE	Modulation range of the compressor	%	15 to 100				
	Heating power output ² , B0W35	kW	3,1 to 16,1				
	COP ² , B0W35	-	4,6				
	Active cooling power output ² , B35W7	kW	- 2,2 to 13,8				
	EER ² , B35W7	-	- 3,7				
	Max. DHW temperature without / with support 5	°C	75 / 80				
	Noise power emission level ⁶	db	35 to 46				
	Energy label / ŋs / SCOP W35 average climate control	-	A+++ / 188% / 4,85				
	Energy label / ŋs / SCOP W55 average climate control	-	A++ / 146% / 3,84				
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)	I / bar	165 / 8				
WORKING FLUIDS	R290 Refrigerant load	kg	0,86				
	Compressor oil type / load	kq	HXL4467 / 1,18				
CONTROL ELECTRICAL DATA	1/N/PE 230 V / 50-60 Hz ⁸	-	√				
	Maximum recommended external protection ⁹	-	C16A				
	Transformer primary circuit fuse	Α		0,5			
	Transformer secondary circuit fuse	A	2,5				
ELECTRICAL DATA: SINGLE-PHASE	1/N/PE 230 V / 50-60 Hz ⁸	-	<i>∠,</i> 5				
	Maximum recommended external protection ⁹	-	C32A				
	Maximum consumption ² , B0W35	kW / A	4,4 / 19,2				
	Maximum consumption ² , B0W35	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 / 50-60 Hz ⁸	-	√ √				
	Maximum recommended external protection ⁹	_	C13A				
	Maximum consumption ² , B0W35	kW / A	4,4 / 6,4				
	Maximum consumption ² , B0W35	kW / A	5,5 / 7,9				
	Minimum / Maximum starting current ⁷	A	0,9 / 4,2				
	Correction of cosine Ø	- 13	0,96 / 1				
DIMENSIONS/WEIGHT	Height x width x depth	mm	VOLTA W S: 1051x609x716 · VOLTA W L: 1943x609x724				
	Empty weight (without assembly)	kg	\$ 195 · L 260 \$ 205 · L 270 \$ 195 · L 260 \$ 205 · L 27				
	empty weight (without assembly)	ку	2 132 · F 700	2 Z02 · F Z/0	2 132 · F 700	2 702 . [2/	

- 1. Air source by replacing the ground source circuit by 3. Considering brine and production flow rates in 7. Starting current depends on the working conditions one or more VOLTA W-O air units. Consult the VOLTA compliance with EN 14511.
- 2. In compliance with EN 14511, this includes the 5. Considering support provided by the emergency 9. consumption of the circulation pumps and the electrical heater. compressor driver.
- W-O aerothermal units manual for more detailed 4. Considering a heat slope from 20°C to 50°C in 8.

 - 6. In compliance with EN 12102.
- of the hydraulic circuits. The admissible voltage range for proper operation of 10. Certification in process.
- the heat pump is $\pm 10\%$. 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
- 11. Integrated by default in modules S/L A and S/L F.





Installation management



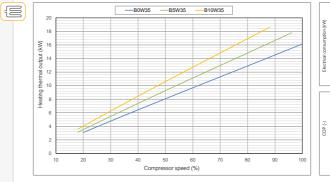


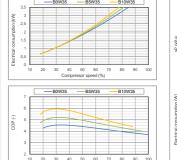


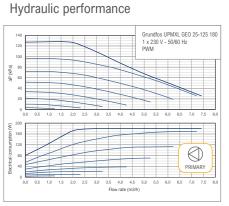


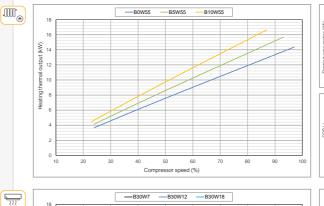
Performance curves

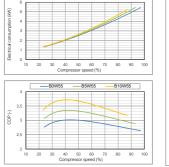
Thermal performance

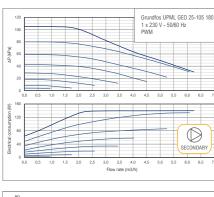


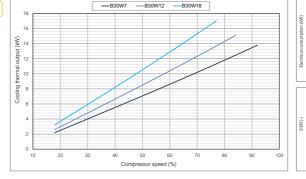


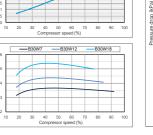


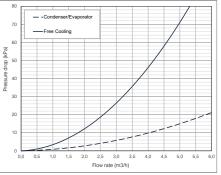














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