

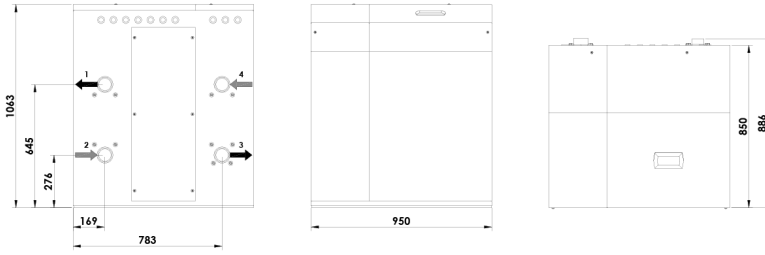
SPECIFICATIONS VOLTA W H 90		UNITS	W H H	W H A
APPLICATION	Place of installation	—	Indoors	
	Type of brine system ¹	—	Ground source / Air source / Hybrid source	
	DHW with external tank	—	✓	✓
	Heating and Pool	—	✓	✓
	External Passive cooling management	—	✓	✓
	Integrated Active cooling	—	—	✓
PERFORMANCE	Modulation range of the compressor	%	25 to 100	
	Heating power output ¹ , BOW35	kW	21.1 to 86.7	
	COP ¹ , BOW35	—	4.5	
	Active cooling power output ¹ , B35W7	kW	—	22.3 to 90.3
	EER ¹ , B35W7	—	—	4.6
	Max. DHW temperature without / with support	°C	60 / 70	
	Noise power emission level ³	db	59 to 72	
	Energy label / ηs / SCOP W35 average climate control	—	A+++ / 199% / 5.08	
	Energy label / ηs / SCOP W55 average climate control	—	A++ / 147% / 3.78	
OPERATION LIMITS	Distribution / Set heating outlet temperature range ²	°C	10 to 60 / 20 to 60	
	Distribution / Set cooling outlet temperature range ²	°C	5 to 35 / 7 to 25	
	Brine inlet temperature range in heating applications ²	°C	-20 to 35	
	Brine inlet temperature range in cooling applications ²	°C	10 to 60	
	Minimum / Maximum refrigerant circuit pressure	bar	2 / 45	
	Production / Pre-load circuit pressure	bar	0.5 to 5.0	
	Brine / Pre-load circuit pressure	bar	0.5 to 5.0	
WORKING FLUIDS	R410A Refrigerant load	kg	8.5	9.1
	Compressor oil type / load	kg	POE 160SZ / 7.7	
	Nominal primary flow rate, BOW35 1 (ΔT = 3 °C)	l/h	4765 to 19360	
	Nominal secondary flow rate, BOW35 1 (ΔT = 5 °C)	l/h	3625 to 14935	
CONTROL ELECTRICAL DATA	1/N/PE 230 V / 50-60 Hz ⁵	—	✓	
	Maximum recommended external protection ⁷	—	C1A	
	Transformer primary circuit fuse	A	0,63	
	Transformer secondary circuit fuse	A	4.0	
ELECTRICAL DATA: THREE-PHASE	3/N/PE 400 V / 50-60Hz ⁵	—	✓	
	Maximum recommended external protection ⁷	—	C63A	
	Maximum consumption ² , BOW35	kW / A	20.3 / 31.8	
	Maximum consumption ² , BOW55	kW / A	29.6 / 45.1	
	Maximum consumption	kW / A	33.7 / 52.9	
	Minimum / Maximum starting current ⁴	A	10.8 / 16.7	
	Correction of cosine Ø	—	0.96 / 1	
DIMENSIONS / WEIGHT	Height x width x depth	mm	1063x950x886	
	Empty weight (without assembly)	kg	450	465

- In compliance with EN 14511, this includes the consumption of the circulation pumps and the compressor driver.
- With variable speed circulating pumps, managed by the VOLTA W H heat pump.
- According to EN 12102.
- Starting current depends on working condition 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 range of operation is restricted.

- External protection exclusively regarding the VOLTA W heat pump controller electrical consumption. This protection should be updated in case of using the controller single-phase electrical supply to wire other equipments depending on the features of such equipments.
- In case of air source or hybrid source configuration, it is required to combine the VOLTA W H heat pump with the VOLTA S-Source.
- Note: primary circuit and secondary circuit circulation pumps not included.

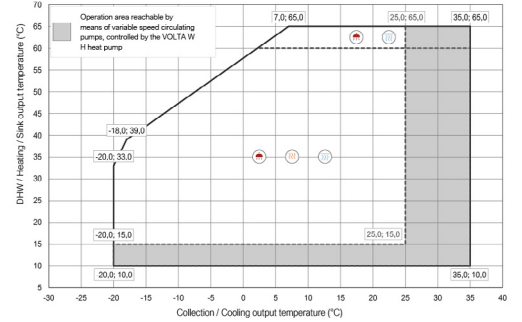
Dimensions and hydraulic connections

VOLTA W H

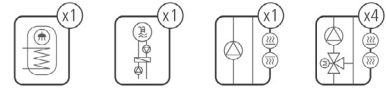


1. Secondary Outlet - 2 1/2" M
2. Secondary Inlet - 2 1/2" M
3. Primary Outlet - 2 1/2" M
4. Primary Inlet - 2 1/2" M

Operational chart

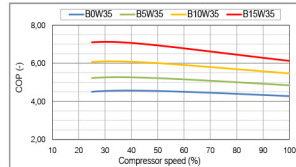
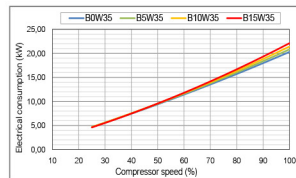
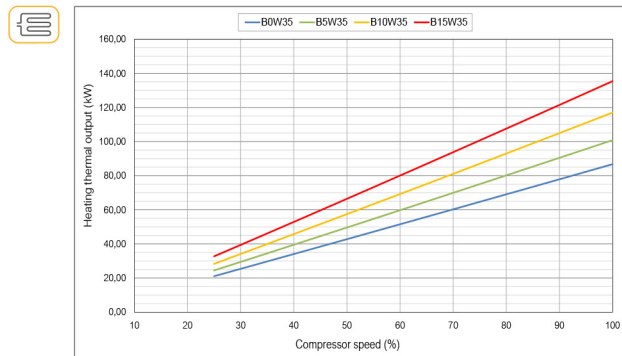


Installation management



Performance curves

Thermal performance



Hydraulic performance

