

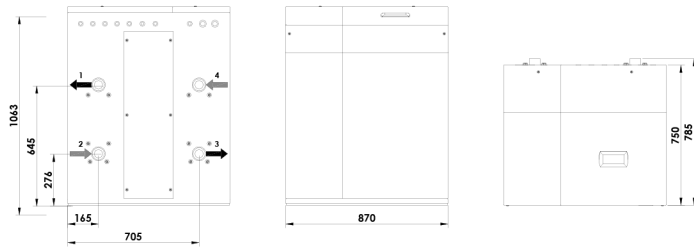
SPECIFICATIONS VOLTA W H 70		UNITS	W H H	W H A
APPLICATION	Place of installation	—	Indoors	
	Type of brine system ¹	—	Ground source / Air source / Hybrid source	
	DHW with external tank	—	✓	✓
	Heating and Pool	—	✓	✓
	External Passive cooling management	—	✓	✓
	Integrated Active cooling	—	—	✓
PERFORMANCE	Modulation range of the compressor	%	25 to 100	
	Heating power output ¹ , BOW35	kW	17.1 to 59.6	
	COP ¹ , BOW35	—	4.5	
	Active cooling power output ¹ , B35W7	kW	—	15.1 to 61.5
	EER ¹ , B35W7	—	—	4.5
	Max. DHW temperature without / with support	°C	60 / 70	
	Noise power emission level ³	db	53 to 71	
	Energy label / η _s / SCOP W35 average climate control	—	A+++ / 200% / 5.09	
	Energy label / η _s / SCOP W55 average climate control	—	A+++ / 152% / 3.90	
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	4.7	5.5
	Compressor oil type / load	kg	POE 160SZ / 4.1	
	Nominal primary flow rate, BOW35 (ΔT = 3 °C)	l/h	3230 to 13195	
	Nominal secondary flow rate, BOW35 (ΔT = 5 °C)	l/h	2465 to 10265	
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	—	C50A	
	Maximum consumption ² , BOW35	kW / A	14.3 / 23.2	
	Maximum consumption ² , BOW55	kW / A	20.4 / 32.3	
	Maximum consumption	kW / A	23.7 / 37.0	
	Minimum / Maximum starting current ⁴	A	7.5 / 11.8	
	Correction of cosine Ø		0.96 / 1	
DIMENSIONS / WEIGHT	Height x width x depth	mm	1063x870x785	
	Empty weight (without assembly)	kg	322	336

- 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.

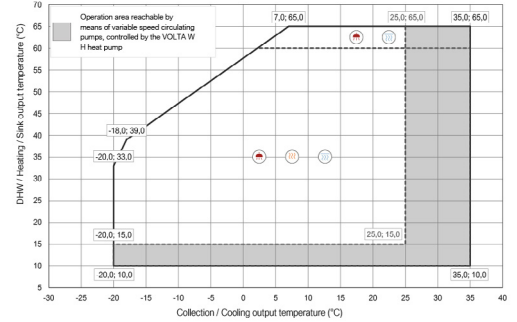
Dimensions and hydraulic connections

VOLTA W H

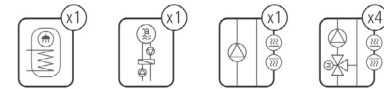


1. Secondary Outlet - 2" M
2. Secondary Inlet - 2" M
3. Primary Outlet - 2" M
4. Primary Inlet - 2" M

Operational chart

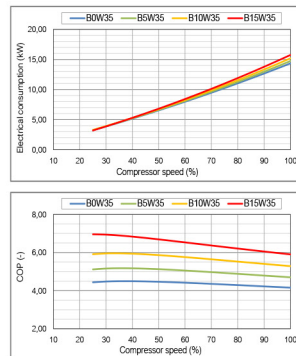
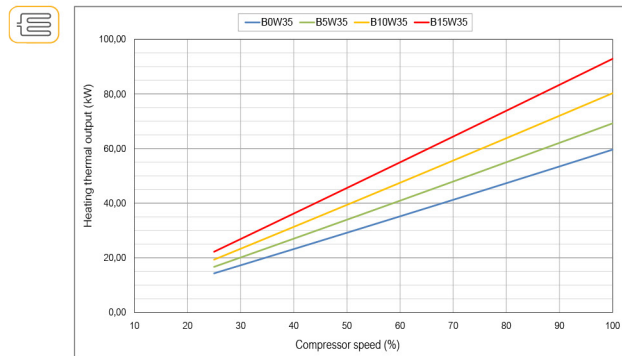


Installation management



Performance curves

Thermal performance



Hydraulic performance

