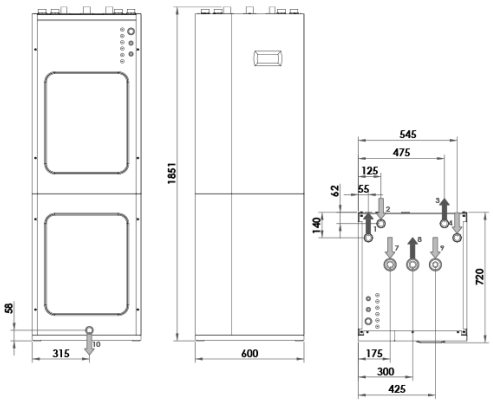
SPECIFICATIONS VOLTA W-L 12 R410A		UNITS	S/L H	S/L P	S/L A	S/L F
APPLICATION	Place of installation	—	Indoors			
	Type of brine system [1]	—	Ground source / Air source / Hybrid source			
	DHW, Heating and Pool	—	✓	✓	✓	✓
	Superheater (SH) system option	—	✓	✓	✓	✓
	Integrated Active cooling	—	—	—	✓	✓
	Integrated Passive cooling	—	—	✓	—	✓
PERFORMANCE	Modulation range of the compressor	%	12.5 to 100			
	Heating power output [2], B0W35	kW	2.1 to 16.0			
	COP [2], B0W35	-	4.6			
	Active cooling power output [2], B35W7	kW	—		2.1 to 15.0	
	EER [2], B35W7	—	—		5.2	
	Max. DHW temperature without / with support [5]	°C	63 / 70			
	Noise power emission level [6]	db	34 to 45			
	Energy label / ηs / SCOP W35 average climate control	—	A+++ / 194% / 4.95			
	Energy label / ηs / SCOP W55 average climate control	—	A++ / 142% / 3.65			
OPERATION LIMITS	Distribution / Set heating outlet temperature range	°C	10 to 60 / 20 to 60			
	Distribution / Set cooling outlet temperature range	°C	5 to 35 / 7 to 25		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 60			
	Minimum / Maximum refrigerant circuit pressure	bar	2 / 45			
	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)	l / bar	165 / 8			
WORKING FLUIDS	R410A Refrigerant load without SH / with SH	kg	0.9 / 1.0		1.0	
	Compressor oil type / load	kg	POE / 0.74			
CONTROL ELECTRICAL DATA	1/N/PE 230 V / 50-60 Hz [8]	—	✓			
	Maximum recommended external protection [9]	—	C16A			
	Transformer primary circuit fuse	A	0.5			
	Transformer secondary circuit fuse	A	2.5			
ELECTRICAL DATA: SINGLE-PHASE	1/N/PE 230 V / 50-60 Hz [8]	—	✓			
	Maximum recommended external protection [9]	—	C32A			
	Maximum consumption [2], B0W35	kW / A	4.2 / 18.6			
	Maximum consumption [2], B0W55	kW / A	5.0 / 21.7			
	Minimum / Maximum starting current [7]	A	2.0 / 8.0			
	Correction of cosine Ø	—	0.96 / 1			
ELECTRICAL DATA: THREE-PHASE	3/N/PE 400 V / 50-60Hz [8]	—	✓			
	Maximum recommended external protection [9]	—	C16A			
	Maximum consumption [2], B0W35	kW / A	4.2 / 6.2			
	Maximum consumption [2], B0W55	kW / A	5.0 / 7.2			
	Minimum / Maximum starting current [7]	A	0.7 / 2.6			
	Correction of cosine Ø	—	0.96 / 1			
DIMENSIONS/ WEIGHT	Height x width x depth	mm	VOLTA W S: 1058x600x710 · VOLTA W L: 1851x600x720			
	Empty weight (without assembly)	kg	S 185 · L 246	S 193 · L 254	S 185 · L 246	S 193 · L 254

1. Air source/Hybrid source by replacing/combining the ground source circuit by/with one or more VOLTA W-O. Consult the VOLTA W-O 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 or the SH system. Maximum DHW temperature with the SH system can be limited by the compressor discharge temperature.
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.

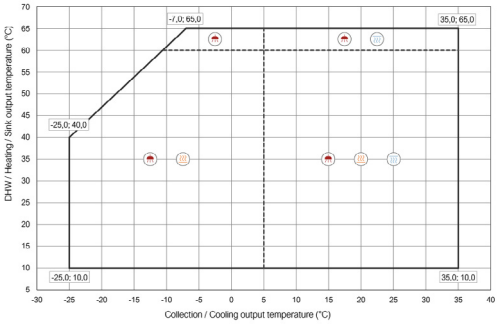
Dimensions and hydraulic connections

VOLTA W L

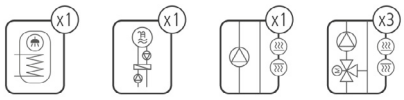


1. Heating/Cooling Outlet - 1 1/4" M
2. Heating/Cooling Inlet - 1 1/4" M
3. Brine Outlet - 1 1/4" M
4. Brine Inlet - 1 1/4" M
5. DHW system Outlet - 1 1/4 " M
6. DHW System Inlet - 1 1/4" M
7. CW Inlet - 1 " F
8. DHW Outlet - 1 " F
9. DHW Recirculation Inlet - 3/4 " F
10. Drain - 16 mm

Operational chart

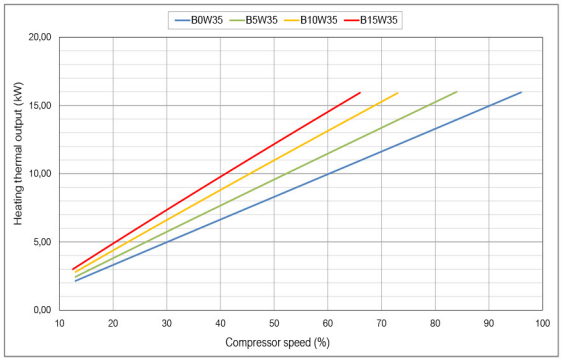


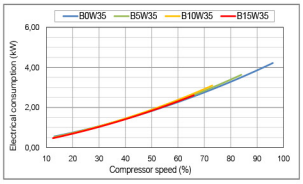
Installation management

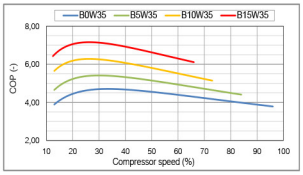


Performance curves

Thermal performance







Hydraulic performance