



VOLTA

HEAT PUMPS

POWERED BY ECOFOREST



**Volta Heat Pump Range
Residential and Commercial**





VOLTA

HEAT PUMPS

POWERED BY ECOFOREST

Volta heat pumps are manufactured by Ecoforest and the market leading range was launched in the UK in 2021. Ecoforest was founded by Jose Carlos Alonso in 1959, his vision was to develop innovative products that were both economic and environmentally-friendly, with the intention of making the world a better place. Today, more than 50 years later, Ecoforest is the technological leader in the heating sector, with solutions based solely on clean and natural energy.

GEOTHERMAL RANGE

The Volta geothermal heat pump range is one of the most advanced on the market. The water-to-water range has variable-speed compressors and inverter technology achieving unique efficiencies.

AIR SOURCE RANGE

The range of Volta A-O monobloc air-to-water heat pumps takes air source heat pumps to another level. Careful design combined with its features and performance make it perfect for residential installations. The use of natural refrigerant, heats water to temperatures above 70°C, making it an ideal system for both retrofits and new builds.



W-L

R410A 6-22kW
R290 1-16kW

GEOTHERMAL



Variable speed compressor



Natural refrigerant



High efficiency



Internet connectivity



Hydraulic connection



Compact indoor unit



CONNECTIVITY

Volta S-Web



PHOTOVOLTAIC HYBRIDISATION

The future is based on the mix of all renewables



W-S
R410A 6-22kW
R290 1-16kW

W-H
R410A / R454B 40-90kW
R290 45-75kW

W-XS
R290 1-6kW



W-S R290 6/10/16kW

Ground Source Heat Pump Brine to Water

KEY FEATURES

- Inverter technology and Scroll compressor
- Ability to modulate thermal power (15-100%) and the speed of the production circulator (20-100%)
- Compact installations: circulation pumps, safety valves and expansion vessels of the primary and secondary circuits inbuilt. 3-way valve for DHW production integrated
- Active cooling inbuilt (VOLTA W-S-A and W-S-F R290)
Passive cooling inbuilt (VOLTA W-S-P and W-S-F R290)
- Integrated energy meters
- R290 as natural refrigerant, environmentally friendly, low GWP of 3
- Superheater option available on 10kW and 16kW models
- Ground source or hybrid collection systems: management of modulating air source units
- Internet connection and remote control
- Hybridisation with photovoltaic energy

POWER

1-6kW
2-10kW
4-16kW

MODULATION

INVERTER

WATER

75°C

POWER SUPPLY

Single Phase
Three Phase

DIMENSIONS

H 1060mm
W 600mm
D 710mm

WEIGHT

133kg

SOURCE



Ground



Water



Air



Hybrid

SERVICES



DHW



Heating



Active/Passive
Cooling



Pool



Photovoltaic



Internet

RANGE

VOLTA W-S 6 R290 1P

1-6kW

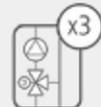
VOLTA W-S 10 R290 1/3P

2-10kW

VOLTA W-S 16 R290 1/3P

4-16kW

PRODUCTION MANAGEMENT



CASCADE





W-S R410A 10/14/22kW

Ground Source Heat Pump Brine to Water

KEY FEATURES

- Inverter technology and Scroll compressor
- Ability to modulate thermal power (12.5-100%) and the speed of the production circulator (20-100%)
- Compact installations: circulation pumps, safety valves and expansion vessels of the primary and secondary circuits inbuilt. 3-way valve for DHW production integrated
- Active cooling inbuilt (VOLTA W-S-A and W-S-F)
Passive cooling inbuilt (VOLTA W-S-P and W-S-F)
- Integrated energy meters
- Simultaneous heating and cooling production allowing unique performance
- SUPERHEATER: Allows DHW production up to 70°C without the need of an electrical heater
- Ground source or hybrid collection systems: management of modulating air source units
- Internet connection and remote control
- Hybridisation with photovoltaic energy inbuilt

POWER

1-10kW
3-14kW
5-22kW

MODULATION

INVERTER

DHW



70°C

POWER SUPPLY



Single Phase
Three Phase

DIMENSIONS

H 1060mm
W 600mm
D 710mm

WEIGHT

193kg

COLLECTION



Ground



Water



Air



Hybrid

SERVICES



DHW



Heating



Active/Passive
Cooling



Pool



Photovoltaic



Internet



RANGE

VOLTA W-S 10 1/3P

1-10kW

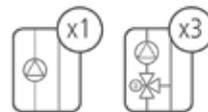
VOLTA W-S 14 1/3P

3-14kW

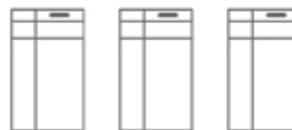
VOLTA W-S 22 1/3P

5-22kW

PRODUCTION MANAGEMENT



CASCADE





VOLTA
HEAT PUMPS

W-L R290 6/10/16kW Ground Source Heat Pump Brine to Water

KEY FEATURES

- Inverter technology and Scroll compressor
- Ability to modulate thermal power (15-100%) and the speed of the production circulator (20-100%)
- Compact installations: circulation pumps, safety valves and expansion vessels of the primary and secondary circuits inbuilt. 3-way valve for DHW production integrated
- Active cooling inbuilt (VOLTA W-S-A and W-S-F R290)
Passive cooling inbuilt (VOLTA W-S-P and W-S-F R290)
- Integrated energy meters
- Environmentally friendly, low GWP of 3
- Superheater option available on 10kW and 16kW models
- Ground source or hybrid collection systems: management of modulating air source units
- Internet connection and remote control
- Hybridisation with photovoltaic energy

POWER

1-6kW
2-10kW
4-16kW

MODULATION

INVERTER

WATER



75°C

POWER SUPPLY



Single Phase
Three Phase

DIMENSIONS

H 1804mm
L 600mm
D 720mm

WEIGHT

255kg

SOURCE



Ground



Water



Air



Hybrid

SERVICES



DHW



Heating



Active/Passive
Cooling



Pool



Photovoltaic



Internet



RANGE

VOLTA W-L 6 R290 1P

1-6kW

VOLTA W-L 10 R290 1/3P

2-10kW

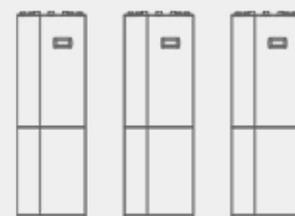
VOLTA W-L 16 R290 1/3P

4-16kW

PRODUCTION MANAGEMENT



CASCADE





W-L R410A 10/14/22kW

Ground Source Heat Pump Brine to Water

KEY FEATURES

- Inverter technology and Scroll compressor
- Ability to modulate thermal power (12.5-100%) and the speed of the production circulator (20-100%)
- Compact installation: circulation pumps, safety valves and expansion vessels of the primary and secondary circuits inbuilt. 3-way valve for the production of DHW integrated
- 165ltr stainless steel DHW tank inbuilt
- Active cooling inbuilt (VOLTA W-L-A and W-L-F)
Passive cooling inbuilt (VOLTA W-L-P and W-L-F)
- Integrated energy meters
- Simultaneous heating and cooling production allowing unique performance
- SUPERHEATER: Allows DHW production up to 70°C without the need of an electrical heater
- Ground source or hybrid collection systems: management of modulating air source units
- Internet connection and remote control
- Hybridisation with photovoltaic energy integrated

POWER

1-10kW
3-14kW
5-22kW

MODULATION

INVERTER

DHW



70°C

POWER SUPPLY



Single Phase
Three Phase

DIMENSIONS

H 1804mm
L 600mm
D 720mm

WEIGHT

255kg

SOURCE



Ground



Water



Air



Hybrid

SERVICES



DHW



Heating



Active/Passive
Cooling



Pool



Photovoltaic



Internet



R410A

165 LTR TANK

INVERTER

MODEL

VOLTA W-L 10 1/3P

1-10kW

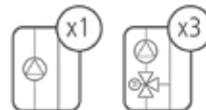
VOLTA W-L 14 1/3P

3-14kW

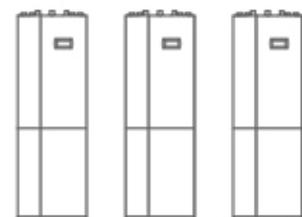
VOLTA W-L 22 1/3P

5-22kW

PRODUCTION MANAGEMENT



CASCADE





W-H R290 45/75kW
Ground Source Heat Pump Brine to Water

KEY FEATURES

- Inverter technology and Scroll compressor
- Ability to modulate thermal power (12.5-100%) and the speed of the production circulator (20-100%)
- VOLTA S-Cascade: manager for cascade installations, allowing for the control of up to 6 units
- Active cooling (VOLTA W-H-A)
- Passive cooling externally
- Energy meters included
- Simultaneous cooling-heating production
- VOLTA S-Source: source manager that allows control of up to 3 different sources of collection for air source or hybrid collection systems
- Integrated management of external modulating or ON/OFF auxiliary support equipment
- Internet connection and remote control
- Hybridisation with PV systems integrated

POWER	MODULATION	SIMULTANEOUS	POWER SUPPLY	DIMENSIONS	WEIGHT
12-40kW 15-60kW 25-90kW	INVERTER	Cooling Heating	Three Phase	H 1063mm W 950mm D 886mm	355kg

COLLECTION



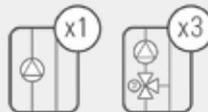
SERVICES



MODEL

VOLTA W-H 45	45kW
VOLTA W-H 75	75kW

PRODUCTION MANAGEMENT



CASCADE





W-H R410A 40/60/90kW / 454B 80kW
Ground Source Heat Pump Brine to Water

KEY FEATURES

- Inverter technology and Scroll compressor
- Ability to modulate thermal power (12.5-100%) and the speed of the production circulator (20-100%)
- VOLTA S-Cascade: manager for cascade installations, allowing for the control of up to 6 units
- Active cooling (VOLTA W-H-A)
- Passive cooling externally
- Energy meters included
- Simultaneous cooling-heating production
- VOLTA S-Source: source manager that allows control of up to 4 different sources of collection for air source or hybrid collection systems
- Integrated management of external modulating or ON/OFF auxiliary support equipment
- Internet connection and remote control
- Hybridisation with PV systems integrated

<p>POWER</p> <p>12-40kW 15-60kW 25-90kW</p>	<p>MODULATION</p> <p>INVERTER</p>	<p>SIMULTANEOUS</p> <p>Cooling Heating</p>	<p>POWER SUPPLY</p> <p>Three Phase</p>	<p>DIMENSIONS</p> <p>H 1063mm W 950mm D 886mm</p>	<p>WEIGHT</p> <p>355kg</p>
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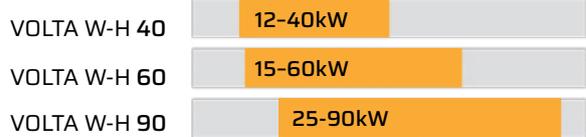
COLLECTION



SERVICES



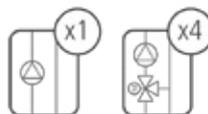
R410A



R454B



PRODUCTION MANAGEMENT



CASCADE





W-XS R290 1-6kW

Ground Source Heat Pump Brine to Water

KEY FEATURES

- **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, 7 litre production expansion vessel, brine and production safety valves and DHW three-way valve
- **Integrated management of up to 2 different emission temperatures**
- **Integrated management of aerothermal collection modulating units**, in case of air source or hybrid configurations
- **Integrated active cooling in model A**
- **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
- **Only 790mm x 595mm x 575mm** (height x width x depth)

POWER

1-6kW

MODULATION

INVERTER

WATER



75°C

POWER SUPPLY



Single Phase

DIMENSIONS

H 790mm
W 595mm
D 575mm

WEIGHT

107kg

COLLECTION



Ground



Water



Air



Hybrid

SERVICES



DHW



Heating



Active Cooling



Pool



Photovoltaic



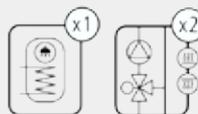
Internet

MODEL

VOLTA W-XS 1P

1-6kW

PRODUCTION MANAGEMENT



CASCADE





VOLTA
HEAT PUMPS

A-O R290 8/10/16kW

Air Source Monobloc Heat Pump Air to Water

KEY FEATURES

- Inverter technology and R290 natural refrigerant
- Thermal power modulation (20-100%) and production circulator pump speed control (20-100%)
- Hydrokits to achieve compact installations: DHW, 3-way valve, filter, filling kit, separator-exchanger, circulation pump, support electrical heater and DHW tank
- Active cooling production on all models
- Integrated energy meters
- Defrost method (DDC), more power in less time, the cycle is reversed without stopping the compressor
- Hybridisation with integrated PV systems
- Internet connection and remote control
- Performance under extreme conditions: the use of propane as a refrigerant ensures that temperature and power delivered is stable even under extreme external temperatures

POWER

1-8kW
3-10kW
3-16kW

MODULATION

INVERTER

R290



GWP: 3

POWER SUPPLY



Single Phase
Three Phase

DIMENSIONS

H 823/1250mm
W 1040/1240mm
D 435/625mm

WEIGHT

115kg
175kg

OUTDOOR UNIT VOLTA A-O-A



INDOOR UNIT VOLTA A-I



APPLICATIONS



DHW



Heating



Cooling



Pool



Photovoltaic



Internet

MODEL

VOLTA A-O-A 8 R290

1-8kW

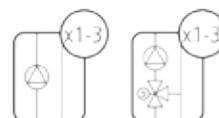
VOLTA A-O-A 10 R290

2-10kW

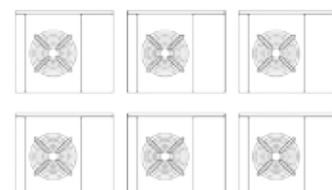
VOLTA A-O-A 16 R290

3-16kW

PRODUCTION MANAGEMENT



CASCADE





VOLTA

HEAT PUMPS

POWERED BY ECOFOREST



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