



**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.

### **GEOHERMAL 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**

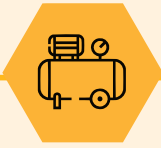
The range of Volta A-O monobloc air-to-water heat pumps takes air source heat pumps to another level. Careful design combined with its features and performance make it perfect for residential installations. The use of natural refrigerant, heats water to temperatures above 70°C, making it an ideal system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



**W-L**

**R410A** 6-22kW  
**R290** 1-16kW

# GEOTHERMAL



Variable speed compressor



Natural refrigerant



High efficiency



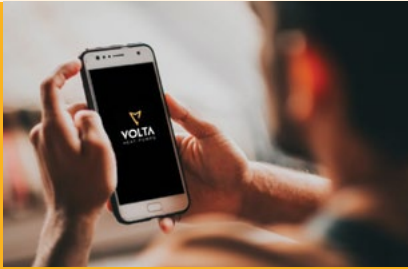
Internet connectivity



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

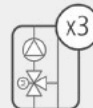
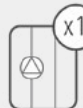
VOLTA W-S 10 R290 1/3P

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

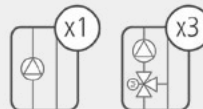
VOLTA W-S 14 1/3P

3-14kW

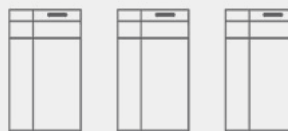
VOLTA W-S 22 1/3P

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

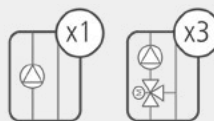
VOLTA W-L 10 R290 1/3P

2-10kW

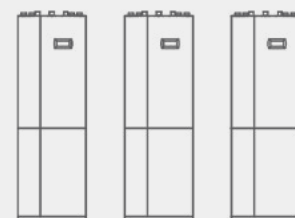
VOLTA W-L 16 R290 1/3P

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**

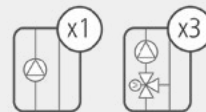
165 LTR TANK

INVERTER

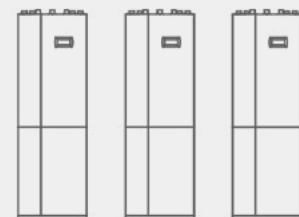
#### MODEL

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**

12-40kW  
15-60kW  
25-90kW

**MODULATION**

INVERTER

**SIMULTANEOUS**

Cooling Heating

**POWER SUPPLY**

Three Phase

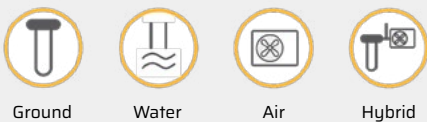
**DIMENSIONS**

H 1063mm  
W 950mm  
D 886mm

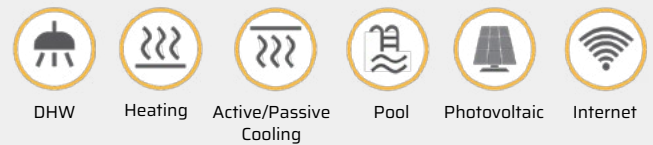
**WEIGHT**

355kg

**COLLECTION**



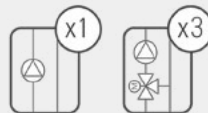
**SERVICES**



**MODEL**

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

**PRODUCTION MANAGEMENT**



**CASCADE**





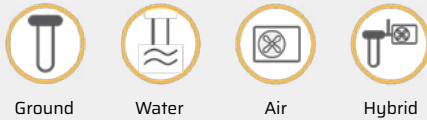
**W-H R410A 40/60/90kW / 454B 80kW**  
**Ground Source Heat Pump Brine to Water**

**KEY FEATURES**

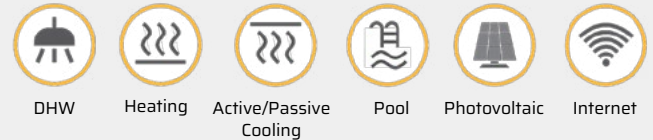
- Inverter technology and Scroll compressor
- Ability to modulate thermal power (12.5-100%) and the speed of the production circulator (20-100%)
- VOLTA S-Cascade: manager for cascade installations, allowing for the control of up to 6 units
- Active cooling (VOLTA W-H-A)
- Passive cooling externally
- 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

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

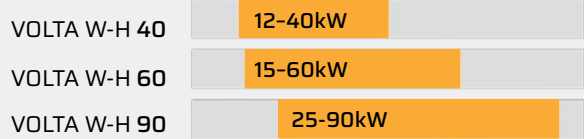
**COLLECTION**



**SERVICES**



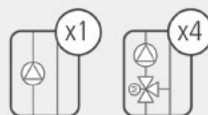
**R410A**



**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 aérothermal 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



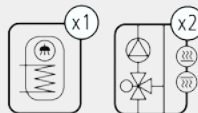
Internet

#### MODEL

VOLTA W-XS 1P

1-6kW

#### PRODUCTION MANAGEMENT



#### CASCADE



## A-O-A 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

#### ELC. 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

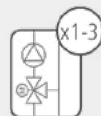
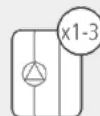
VOLTA A-O-A 10 R290

2-10kW

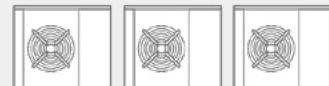
VOLTA A-O-A 16 R290

3-16kW

#### PRODUCTION MANAGEMENT



#### CASCADE



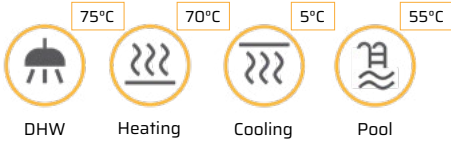
# A-O-A R290 6-24kW

## Air Source Monobloc Heat Pump Air to Water

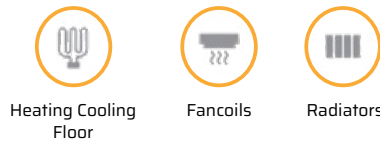
### KEY FEATURES

- Modulating thermal output control across a wide range (17%-100%), fan speed control (20%-100%), and modulating flow control in the production circuit (20%-100%).
- Natural refrigerant R290 with GWP 3.
- Inverter technology.
- Compact design incorporating the production circulator within the outdoor unit.
- Hydraulic connection between the outdoor and indoor modules.
- Integrated energy metering for electrical consumption, thermal output (heating/cooling), and instantaneous and seasonal performance monthly and annual.
- Reversible models with integrated active cooling production.
- Indoor unit selection based on project requirements.
- Models available in single-phase and three-phase versions.
- Integrated photovoltaic hybridisation.

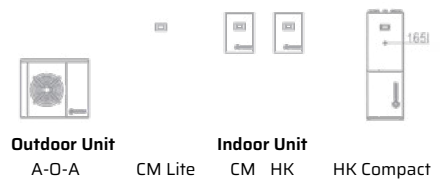
### APPLICATIONS



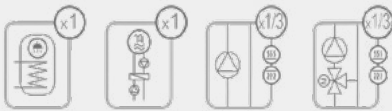
### COMPATIBLE PRODUCTION SYSTEMS



### MONOBLOC HEAT PUMP



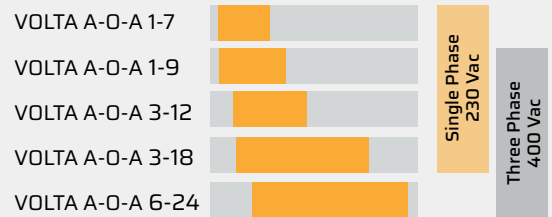
### MANAGEMENT OF SHUNT GROUPS



### PERFORMANCE



### MODELS



### CASCADE





# VOLTA

HEAT PUMPS

POWERED BY ECOFOREST



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