

COMPANY PROFILE



**enerblue**

INSPIRED BY NATURE



Company foundation and first heat pumps with R410A and R134a refrigerant.

2007

2010

Heat pump range extended to 250 kW.

Production of heat pumps with R744 (CO<sub>2</sub>) refrigerant.

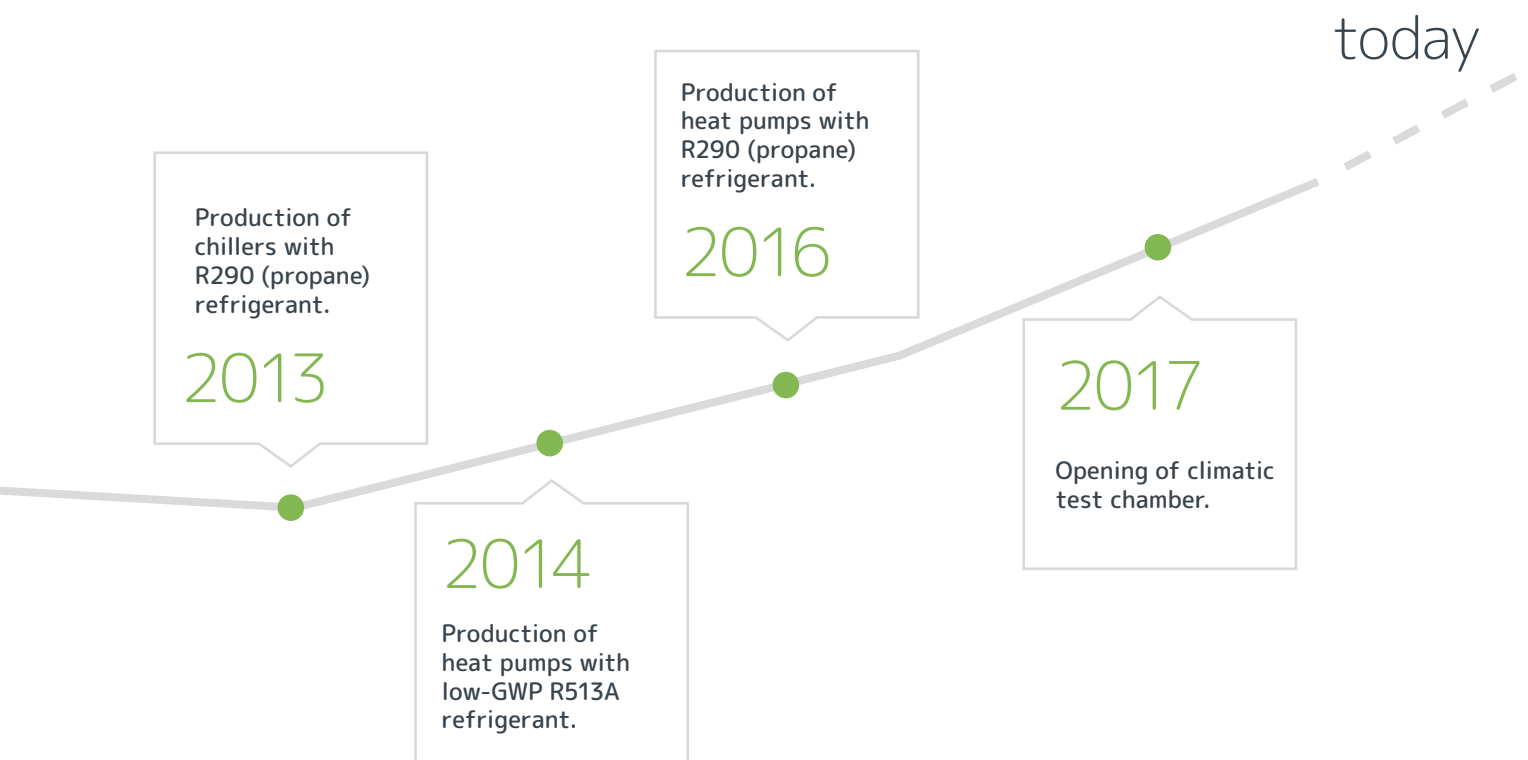
2012



# LOCAL SKILLS, CUTTING-EDGE TECHNOLOGY

Enerblue was founded in 2007 in the highly specialised, technologically advanced eastern Veneto area: a young, dynamic company, it was founded on a desire to make the most of the outstanding heating and air conditioning know-how within this industrial district.

Thanks to a broad skills set, the Enerblue team can keep all the processes in-house; from research and design to production and marketing.







# ENERGY EFFICIENCY, FLEXIBLE SERVICES AND TAILOR-MADE PRODUCTS.

Thanks to constantly growing facilities, we analyse, design and produce every single product internally to meet a wide range of customer needs and provide innovative, efficient tailor-made solutions.

# OPEN INNOVATION AND CONSTANT GROWTH



Global warming and the progressive need to reduce CO<sub>2</sub> emissions demand that we make green and future-oriented choices.

In addition to heat pumps with traditional refrigerant gases, our vision and commitment to sustainability have led us to develop products that use natural refrigerants.

Propane (R290) and CO<sub>2</sub> (R744) are central in the projects development of our heat pumps.

The use of very low-GWP, high-efficiency natural refrigerants is now our mission.

Our close contacts with the University of Padua, which has unrivalled expertise in these technologies, ensure our learning and growth curve is uninterrupted, always complies with the standards in force and is attentive to any impact on the environment.



## OUR SERVICES

# CLIMATIC TEST CHAMBER AND WITNESS TESTS

ENERBLUE Lab was established out of the need to support the company innovation programs (i.e. research into new technology and continuous improvement) and so obtain more reliable, environmentally sustainable units.

A test lab that allows us to check performances and ensure product quality certification.

The various stages of testing are carried out on all products:

- Heat pumps and chillers up to a power rating of 350 kW – simulated ambient temperature from -15 °C to 45 °C and relative humidity from 20% to 100%;
- Total-recovery heat pumps (DWS), in air-to-water and water-to-water versions;
- Chillers with integrated free-cooling module.

On request, we also allow for WITNESS tests to be carried out so that unit performance under various pre-set operating conditions can be verified.





# TECHNICAL SUPPORT AND PRODUCT ACADEMY

Our customers can count on specialised and fast technical support. Through constant telephone assistance, remote monitoring of units and direct technical intervention, we provide an all-round support package.

To make service even more efficient we organise periodic **training courses** for all our partners. We also organise, on request, commissioning and training on customers' installed systems.



# PRODUCT OVERVIEW

## NATURAL SOLUTIONS

### HP90 - HP90 W

Units for the production of very high temperature water with CO<sub>2</sub> as natural refrigerant gas (R744).

Heating capacity air-to-water (A7;W80) 14,5 ÷ 124,9 kW

Heating capacity water-to-water (W7;W80) 15,8 ÷ 133,2 kW



Heating



Semi-hermetic reciprocating compressors



Axial fans



Total cool recovery (Optional)



### Purple HP

High efficiency air-to-water reversible heat pumps with axial fans and natural refrigerant gas (R290).

Heating capacity (A7;W45) 26 ÷ 221 kW

Cooling capacity (A35;W7) 22 ÷ 181 kW



Reversible



Semi-hermetic reciprocating compressors



Axial fans



### Purple

High efficiency air-to-water chillers for process applications with axial fans and natural refrigerant gas (R290).

Cooling capacity (A35;W7) 28 ÷ 290 kW



Cooling



Semi-hermetic reciprocating compressors



Axial fans





## Purple Inverter

High efficiency air-to-water inverter chillers with EC fans and natural refrigerant gas (R290).

Cooling capacity (A35;W7) 28 ÷ 290 kW



Cooling



Semi-hermetic reciprocating compressors



EC Axial fans



Inverter compressors

R290



## Purple FC

High efficiency air-to-water free-cooling chillers with axial fans and natural refrigerant gas (R290).

Cooling capacity (A35;W7) 54 ÷ 146 kW



Cooling



Semi-hermetic reciprocating compressors



Axial fans



Free cooling

R290



## HIGH TEMPERATURE HEAT PUMPS

### Orange - Orange Max

High efficiency air-to-water heat pumps with axial fans and scroll compressors.

#### Standard version

Heating capacity (A7;W45) 7 ÷ 40 kW

Cooling capacity (A35;W7) 6 ÷ 45 kW

#### Max version

Heating capacity (A7;W45) 44 ÷ 75 kW

Cooling capacity (A35;W7) 40 ÷ 88 kW



Reversible



Scroll compressors



Axial fans



Multifunctional (Optional)

R410A



60° | Max WATER temperature

-16° | Min. ext. AIR temperature

## Orange HT - Orange HT Max

High efficiency air-to-water heat pumps with axial fans and scroll compressors.

### Standard version

Heating capacity (A7;W45): 6 ÷ 37 kW

Cooling capacity (A35;W7) 6 ÷ 49 kW

### Max version

Heating capacity (A7;W45) 42 ÷ 77 kW

Cooling capacity (A35;W7) 37 ÷ 90 kW

 **R410A**



**65°** |   
Max WATER  
temperature

**-20°** |   
Min. ext. AIR  
temperature



Reversible



Scroll  
compressors



Axial fans



Multifunctional  
(Optional)

## Orange Inverter

Reversible air-to-water heat pumps with DC inverter compressors.

Heating capacity (A7;W45) 17 ÷ 34 kW

Cooling capacity (A35;W7) 16 ÷ 30 kW

 **R410A**



**60°** |   
Max WATER  
temperature

**-18°** |   
Min. ext. AIR  
temperature



Reversible



Twin-Rotary  
compressors



Axial fans



Inverter  
compressors

## Brown

High efficiency, high temperature air-to-water heat pumps with axial fans and scroll compressors.

Heating capacity (A7;W45) 94 ÷ 244 kW

Cooling capacity (A35;W7) 83 ÷ 214 kW

 **R410A**



**62°** |   
Max WATER  
temperature

**-18°** |   
Min. ext. AIR  
temperature



Reversible



Scroll  
compressors



Axial fans



Multifunctional  
(Optional)



Inverter compressors  
(Optional)

## Black Evo HT

High efficiency, very high temperature air-to-water heat pumps with axial fans.

Heating capacity (A7;W45) 35 ÷ 238 kW

Cooling capacity (A35;W7) 32 ÷ 201 kW

R134a  
R513A



80° |   
Max WATER temperature  
-20° |   
Min. ext. AIR temperature



Reversible



Semi-hermetic  
reciprocating  
compressors



Axial fans



Multifunctional

## Bronze

Only heating, high temperature water-to-water heat pumps, with scroll compressors.

Heating capacity (W35;W70) 29 ÷ 224 kW

R134a



80° |   
Max WATER temperature



Heating



Scroll  
compressors

## Red - Red Max

High efficiency water-to-water geothermal heat pumps.

Heating capacity (W 10°C/W 45°C) 5 ÷ 120 kW

Cooling capacity (W 30°C/W 7°C) 6 ÷ 85 kW

R410A



60° |   
Max WATER temperature



Reversible



Scroll  
compressors



Multifunctional  
(Optional)

## ELECTRONIC DEVICES

### Manager Lite\_Pro

Cascade controller  
up to 6 units



### Enerblue on web

Web monitoring via  
custom secure VPN





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