enerblue

INSPIRED BY NATURE

PRODUCT OVERVIEW

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

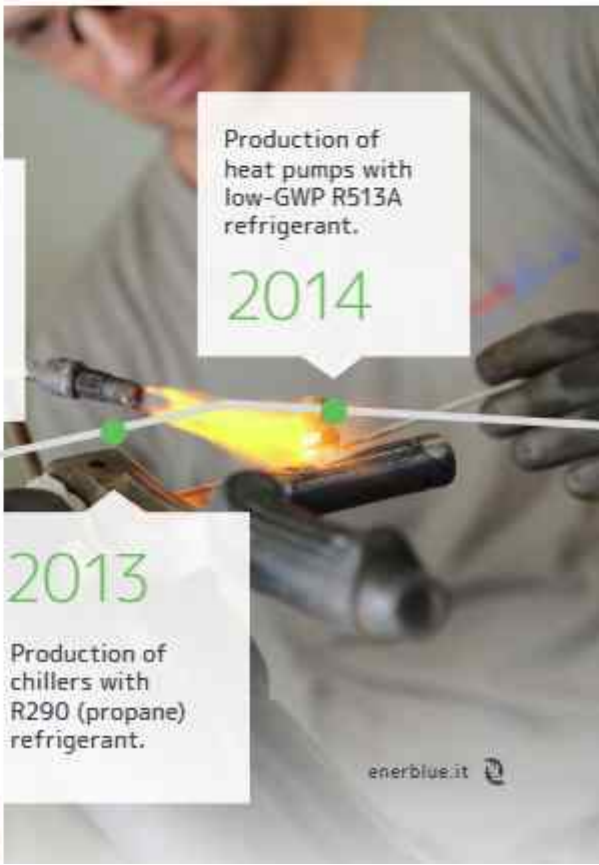
2007

Production of heat pumps with R744 (CO2) refrigerant.

2012

Production of heat pumps with low-GWP R513A refrigerant.

2014



2010

Heat pump range extended to 250 kW.

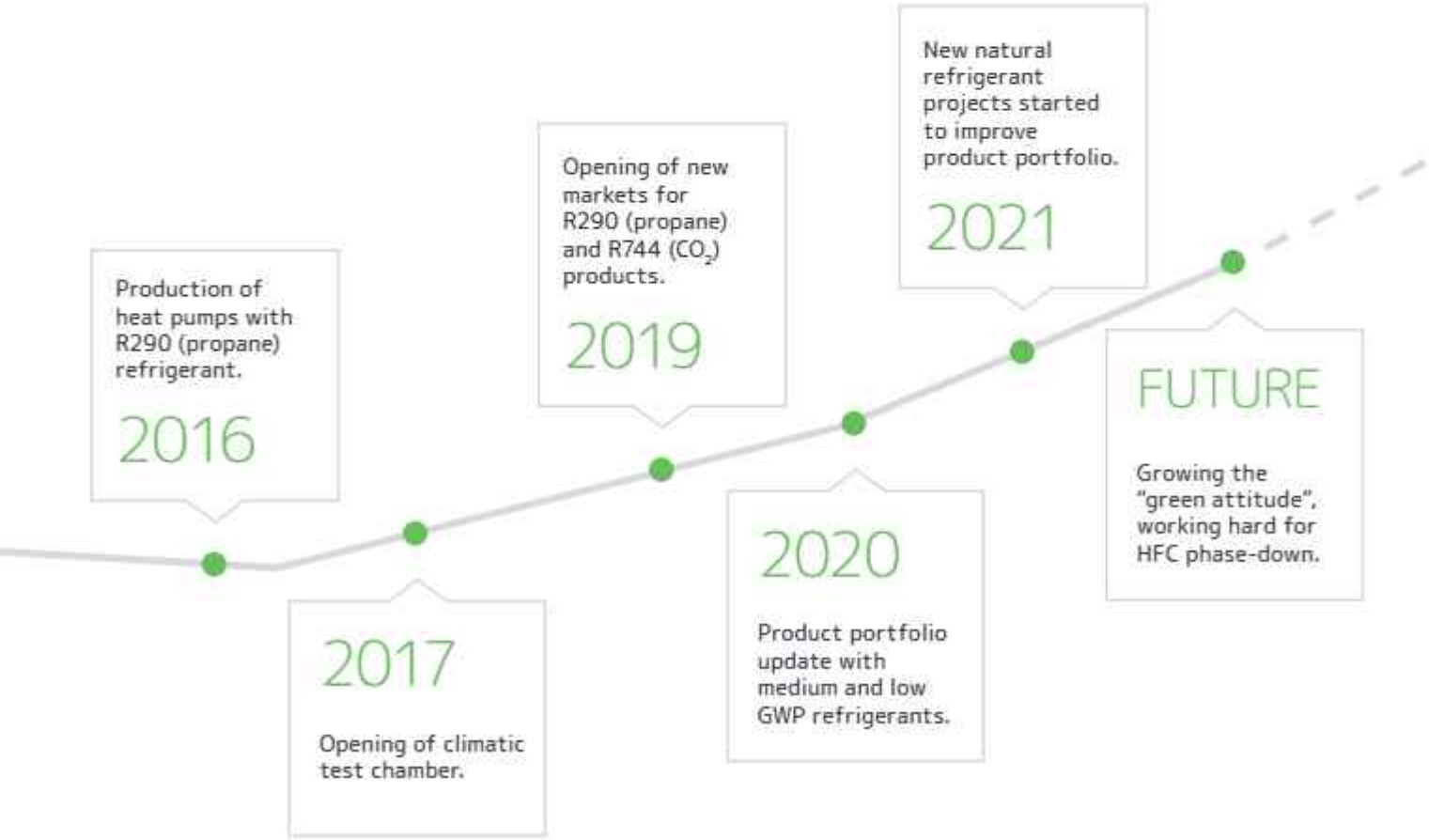
2013

Production of chillers with R290 (propane) refrigerant.

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 ih-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 CO2 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 CO2 (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.

AIR-TO-WATER HEAT PUMPS WITH NATURAL REFRIGERANT

PALLADIUM

Ultra low-noise, high temperature reversible heat pumps with natural refrigerants gas **(R290).**

Heating capacity (A7;W35) 50 ÷ 164 kW
Cooling capacity (A35;W7) 40 ÷ 135 kW

Reversible | Axial EC fans | Scroll compressors | Ultra Low Noise

PALLADIUM DWS

Ultra low-noise, high temperature reversible heat pumps with natural refrigerants gas **(R290).**

Heating capacity (A7;W35) 50 ÷ 164 kW
Cooling capacity (A35;W7) 40 ÷ 135 kW

Reversible | Axial EC fans | Scroll compressors | Ultra Low Noise

PALLADIUM 4P

Ultra low-noise, high temperature reversible heat pumps with natural refrigerants gas **(R290).**

Heating capacity (A7;W35) 50 ÷ 164 kW
Cooling capacity (A35;W7) 40 ÷ 135 kW

Reversible | Axial EC fans | Scroll compressors | Ultra Low Noise

PURPLE HP

High efficiency air-to-water reversible heat pumps with axial fans, ON-OFF compressors 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

PURPLEi HP

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

Heating capacity (A7;W45) 26 ÷ 221 kW
Cooling capacity (A35;W7) 22 ÷ 181 kW

Reversible | Axial fans | Semi-hermetic reciprocating compressors

IRIDIUM - IRIDIUM WW

Units for the production of high temperature water with CO2 as natural refrigerant gas **(R744).**

Heating capacity air-to-water (A7;W80) 14,8 ÷ 124,3 kW
Heating capacity water-to-water (W7;W80) 16 ÷ 137,9 kW

Heating | Semi-hermetic reciprocating compressors | Axial fans | Total cool recovery (Optional)

WATER-TO-WATER HEAT PUMPS WITH NATURAL REFRIGERANT

STEEL

Water-to-water heat pumps with natural refrigerant gas **R290** and hermetic scroll compressors

Heating capacity (W7|W55) 30 ÷ 87 kW
Cooling capacity (W35|W7) 25 ÷ 74 kW

Reversible on water side

Scroll compressors

IRON

Water-to-water heat pumps with natural refrigerant gas **R290** and semihermetic reciprocating compressors

Heating capacity (W7|W55) 104 ÷ 368 kW
Cooling capacity (W35|W7) 95 ÷ 309 kW

Reversible on water side

Semi-hermetic reciprocating compressors

CHILLERS WITH NATURAL REFRIGERANT

SILVER

Water chillers with screw compressors regulated by inverter and **R290** natural refrigerant (GWP = 3)

Available in 11 sizes

Cooling capacity (A35; W7) 308 ÷ 768 kW

Cooling | EC Axial fans | Screw compressors | Total heat recovery or desuperheater

PURPLE

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

Cooling capacity (A35;W7) 28 ÷ 290 kW

Cooling | Semi-hermetic reciprocating compressors | Axial fans

PURPLEi

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

PURPLE FC

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

Cooling capacity (A35:W7) 54 – 146 kW

Cooling | Semi-hermetic reciprocating compressors | Axial fans | Free cooling

HIGH TEMPERATURE HEAT PUMPS WITH LOW GWP GAS

BLACK HT Evo

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

Heating capacity (A7:W45) 32– 201 kW
Cooling capacity (A35:W7) 29 – 188 kW

Reversible | Semi-hermetic reciprocating compressors | Axial fans

BRONZE Evo

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

Heating capacity (W35:W70) 29 – 224 kW

Heating | Scroll compressors

BLACK HT WW

Water/Water heat pump, reversible on water side, for high temperature application with pistons semi hermetic compressors.

Heating capacity (W7:W55) 36 – 277 kW
Cooling capacity (W35:W7) 31 – 241 kW

Reversible on water side | Semi-hermetic reciprocating compressors

MEDIUM 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) 27 ÷ 40 kW
Cooling capacity (A35;W7) 24 ÷ 38 kW

Max version
Heating capacity (A7;W45) 43÷ 74 kW
Cooling capacity (A35;W7) 39 ÷ 66 kW

Reversible | Scroll compressors | Axial fans | Multifunctional (Optional)

ORANGE HT MAX

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

Max version
Heating capacity (A7;W45) 41 ÷ 75 kW
Cooling capacity (A35;W7) 38 ÷ 70 kW

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

Reversible | Twin-Rotary compressors | Axial fans | Inverter compressors

MEDIUM TEMPERATURE HEAT PUMPS

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
R454B

Reversible | Scroll compressors | Axial fans | Multifunctional (Optional) | Inverter compressors (Optional)

RED - RED Max

High efficiency water-to-water geothermal heat pumps with scroll compressors.

Heating capacity (W 10°C/W 45°C) 28 – 112 kW
Cooling capacity (W 30°C/W 7°C) 22 – 85 kW

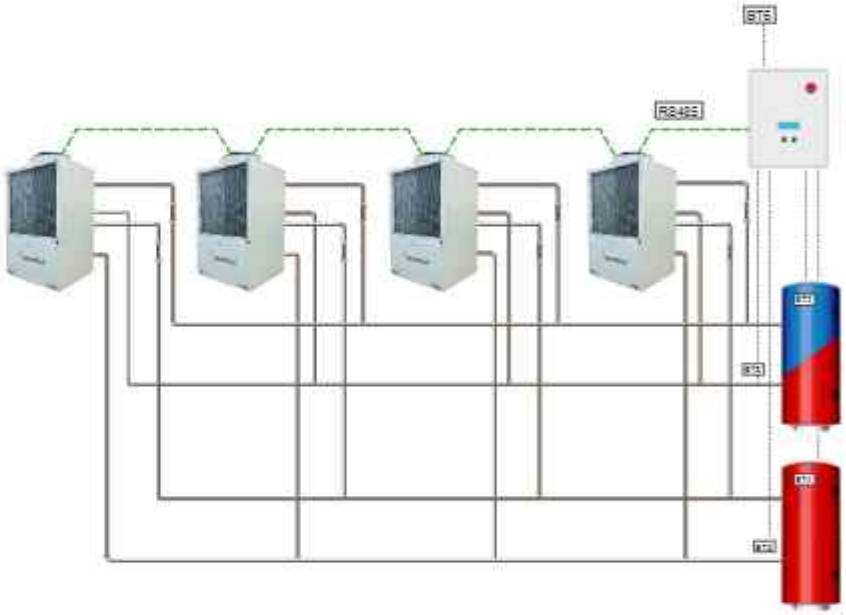
R410A
R454B

Reversible on water side | Scroll compressors | Multifunctional (Optional)

MANAGER Pro

Cascade controller up to 6 units (max 4 units with DHW/DWS + 2 units without DHW/DWS) with Electrical panel IP 55 + RS485 serial connection card - Modbus RTU+ Router UMTS configured with SIM card + Access via private VPN

Optional: Bacnet IP - MS/TP



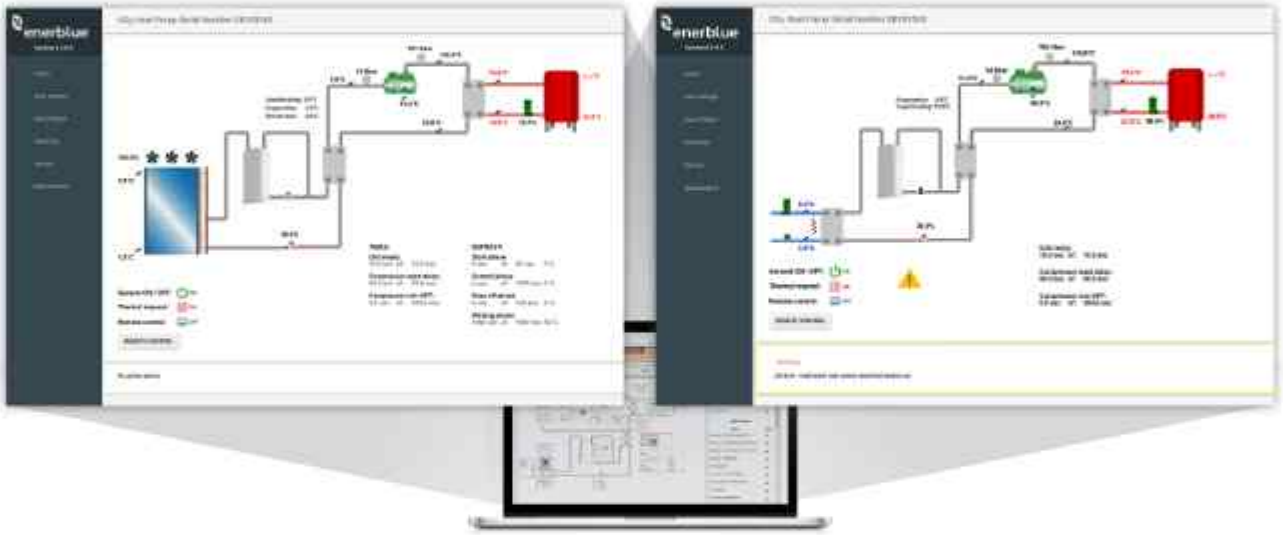
Enerblue on web

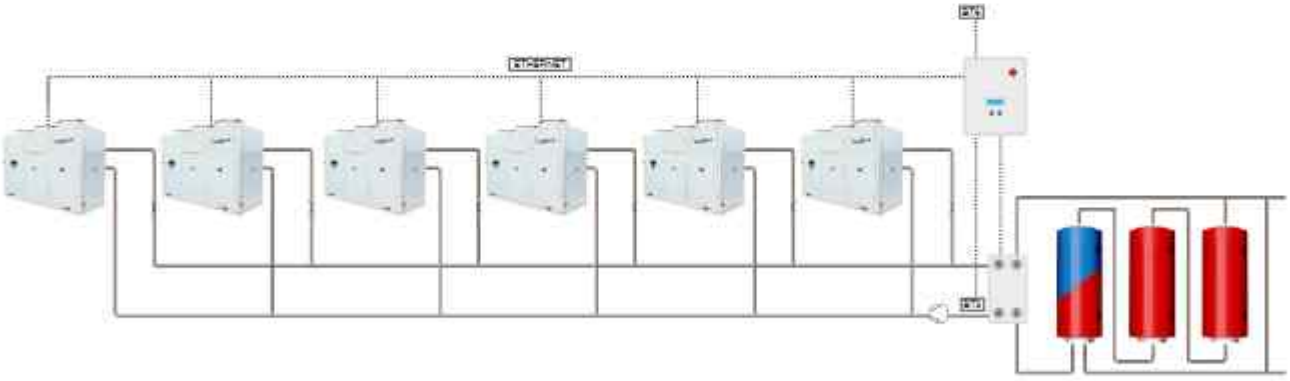
Web monitoring via custom secure VPN

MANAGER IRIDIUM

Cascade controller up to 6 units with Electrical panel IP 55 + RS485 serial connection card - Modbus RTU+ Router UMTS configured with SIM card + Access via private VPN

Optional: Bacnet IP - MS/TP **ENERBLUE software**





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