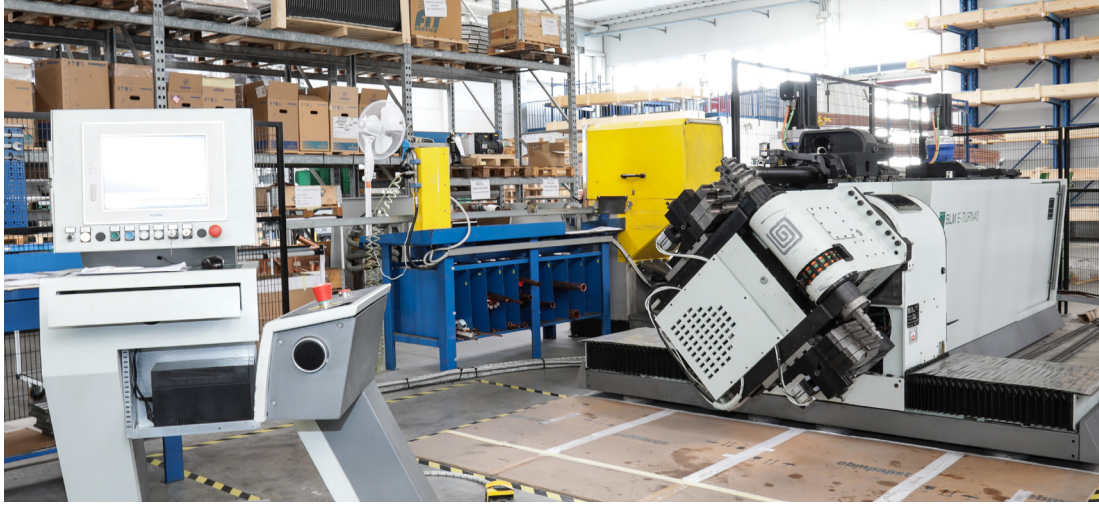
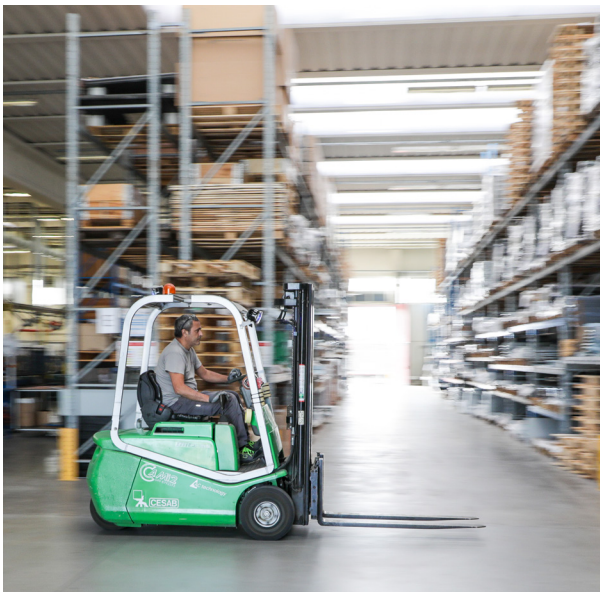
EN

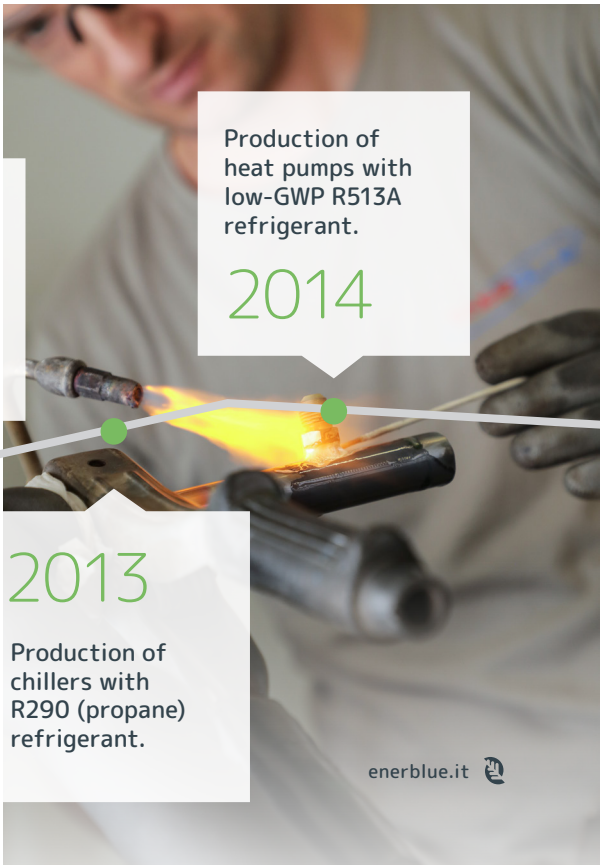
PRODUCT OVERVIEW

enerblue

INSPIRED BY NATURE







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.

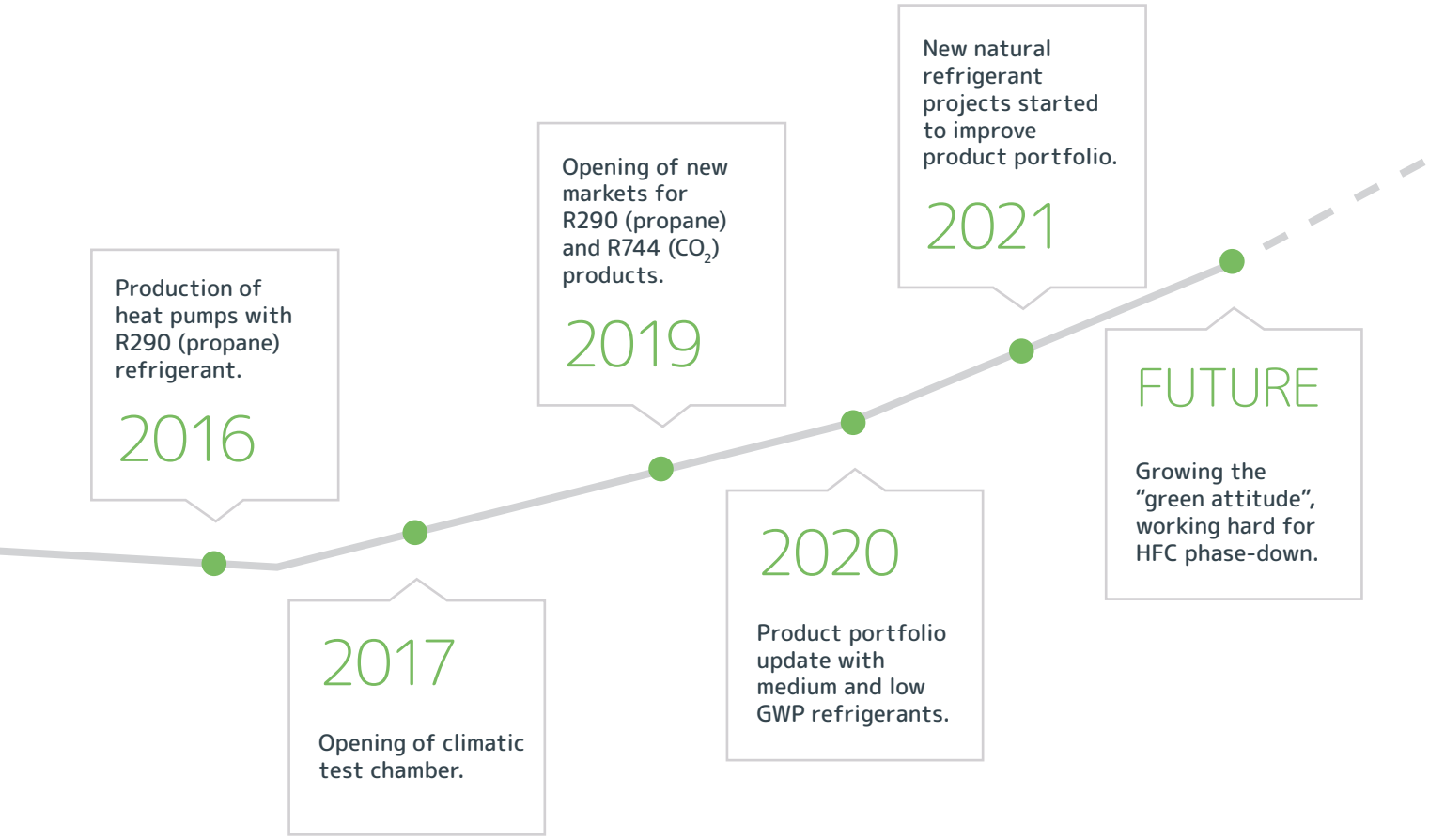
2013

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.

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:

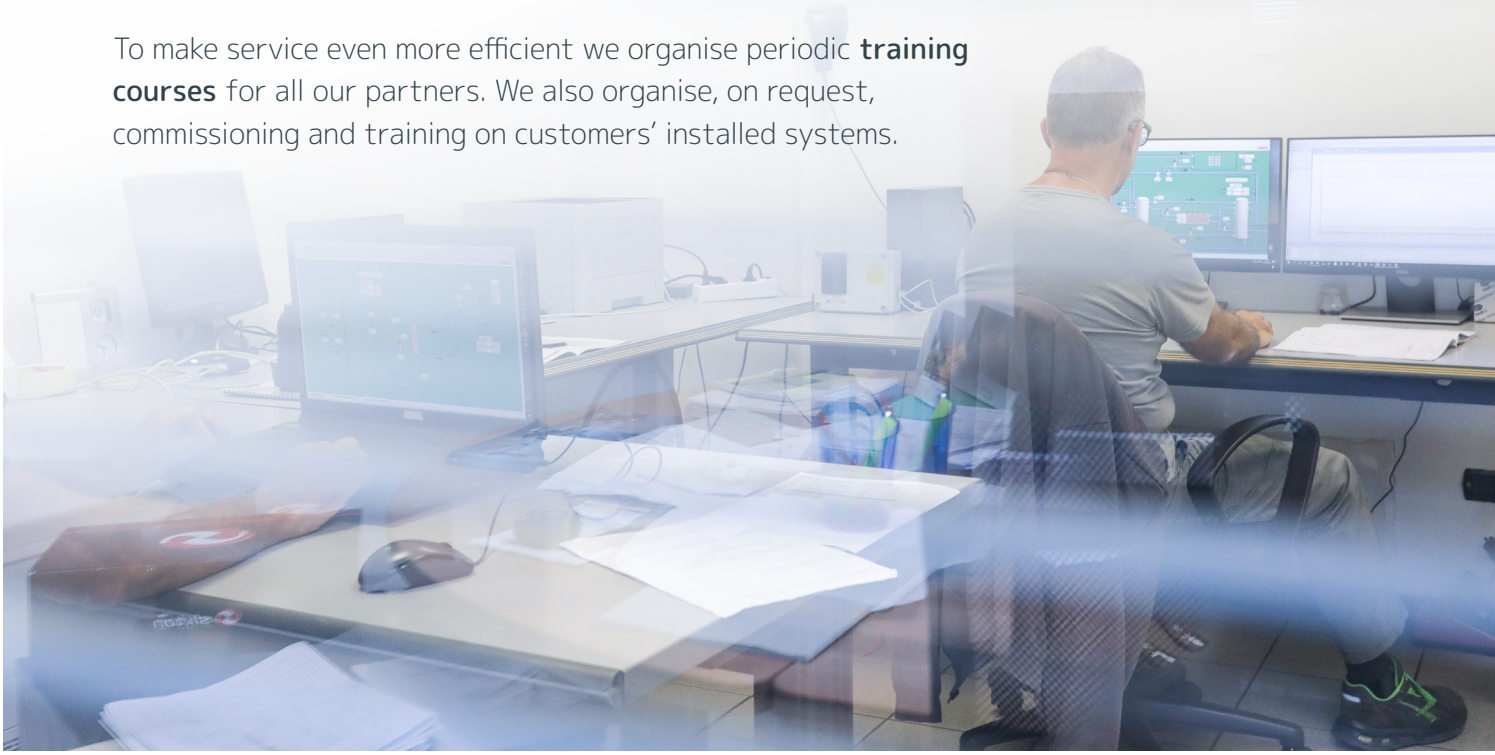
- Heat pumps and chillers up to a power rating of 350 kW – simulated ambient temperature from -15 °C to 45 °C and relative humidity from 20% to 100%;
- Total-recovery heat pumps (DWS), in air-to-water and water-to-water versions;
- Chillers with integrated free-cooling module.

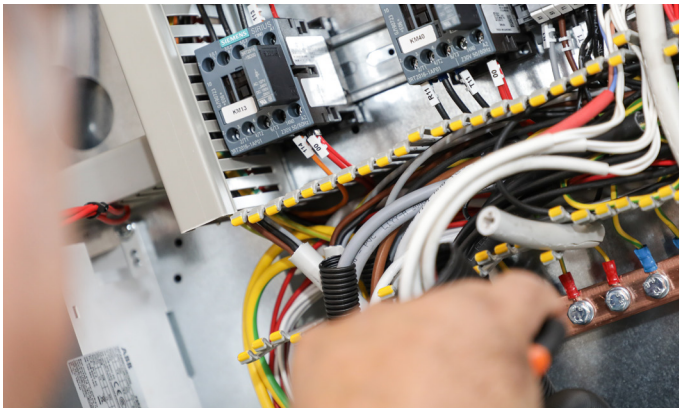
On request, we also allow for WITNESS tests to be carried out so that unit performance under various pre-set operating conditions can be verified.

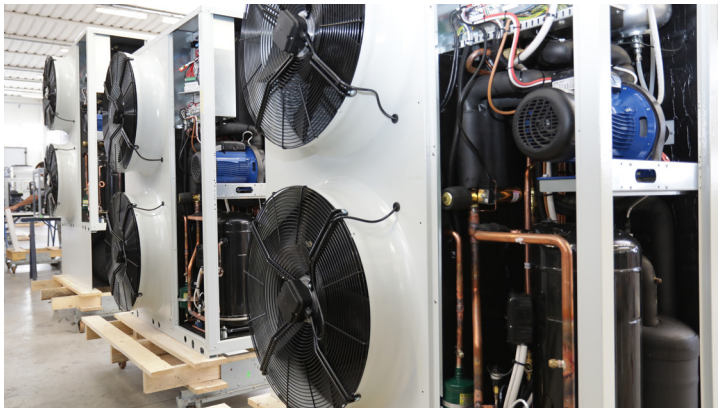
TECHNICAL SUPPORT AND PRODUCT ACADEMY

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 COOLING AND HEATING

IRIDIUM

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

IRIDIUM WW

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

Heating capacity water-to-water (W7;W80) 16 ÷ 137,9 kW

Heating | Semi-hermetic reciprocating compressors

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

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

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

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

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

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

HIGH TEMPERATURE AIR TO WATER HEAT PUMPS

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

R410A

60° | Max WATER temperature
-18° | Min. ext. AIR temperature

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 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)

R410A

65° | Max WATER temperature
-20° | Min. ext. AIR temperature

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 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

R513A

80° | Max WATER temperature

-20° | Min. ext. AIR temperature

Reversible | Semi-hermetic reciprocating compressors | Axial fans

MEDIUM AND HIGH TEMPERATURE WATER TO WATER HEAT PUMPS

RED - RED Max

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

Heating capacity (W 10°C/W 45°C) 5 ÷ 120 kW
Cooling capacity (W 30°C/W 7°C) 6 ÷ 85 kW

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

R410A

60° | Max WATER temperature

BRONZE Evo

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

Heating capacity (W35:W70) 29 ÷ 224 kW

Heating | Scroll compressors

R134a
R513A

80° | Max WATER temperature

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

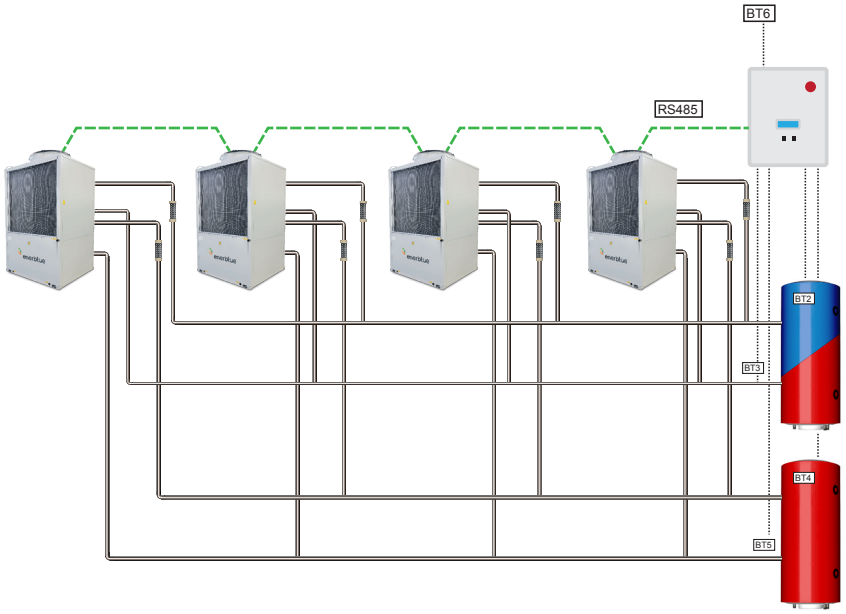
R513A

80° | Max WATER temperature

MANAGER Pro

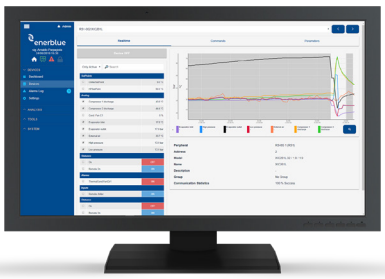
Cascade controller up to 6 units (max 4 units with DHW/DWS + 2 units without DHW/DWS) with Electrical panel IP 55 + RS485 serial connection card - Modbus RTU+ Router UMTS configured with SIM card + Access via private VPN

Optional: Bacnet IP - MS/TP



Enerblue on web

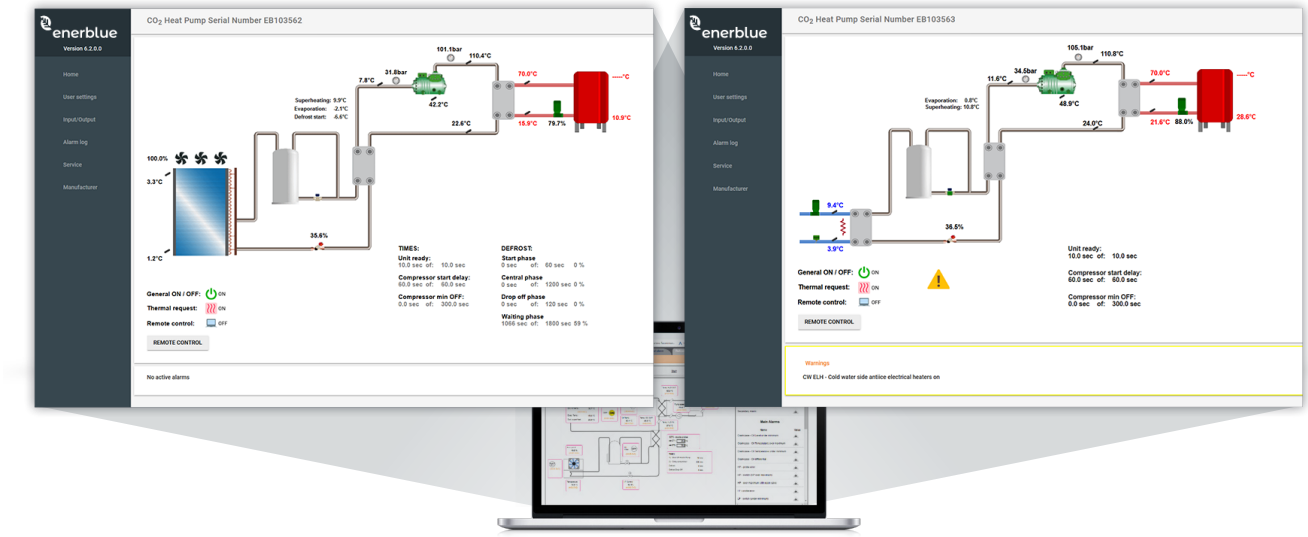
Web monitoring via custom secure VPN

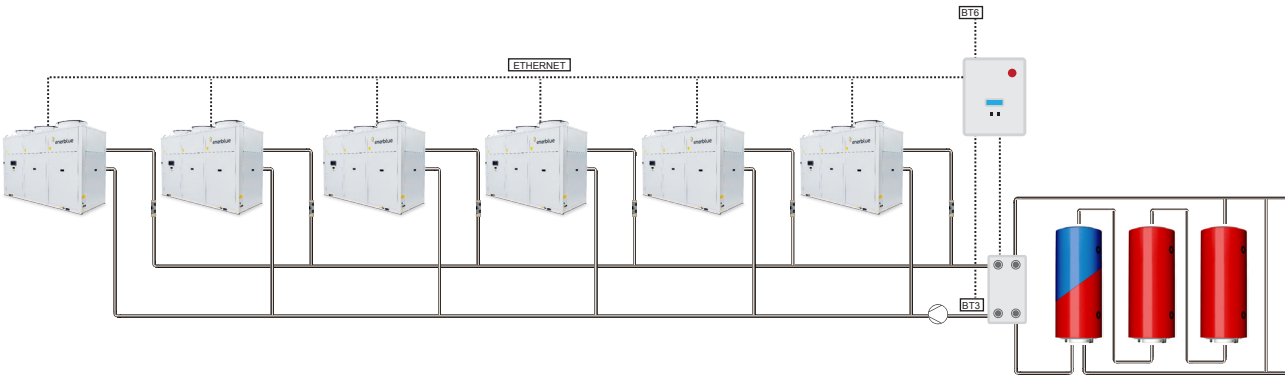


MANAGER IRIDIUM

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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