



TITAN Zero

Air source heat pump and chiller with refrigerant R290 **230÷420** kW



TITAN Zero

THE POWER OF NATURE HAS NO LIMITS



Air source heat pump and chiller with reciprocating compressors and plate heat exchangers:

- Full Inverter Compressors
- Reliable and durable unit
- Heavy duty design philosophy
- Low Refrigerant Charge
- Eurovent certified



CLIMATE EUROPEAN CLIMATE STRATEGY CHANGE IS GOING TO BE UPDATED AND FIGHT REINFORCED

TARGET

Reduction of **55%** Greenhouse Gas emission by **2030**

Increased **renewable energy** (above **32%**) by **2030**

Net-zero Greenhouse Gas Emission by **2050**



HOW?

F-gas regulation Regulation

Renewable Energy Directive

European Performance of Buildings Directive (**EPBD**)

Ecodesign **ERP** Directive

Keep temperature increase below 1.5°C

Become a climate neutral economy

SUSTAINABLE CHOICE

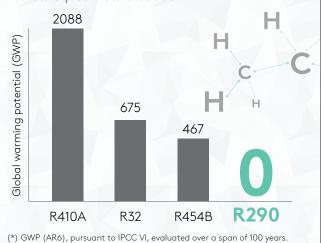
- Nearly zero Global Warming Potential (GWP≈0*)
- No Ozone Layer impact
- Natural fluid
- Excellent thermodynamic properties
- -40% gas charge compare to R410A

RELIABLE CHOICE

- Long lasting reciprocating compressor with inverter technology
- Implementation of the highest safety standard

SMART CHOICE

- No carbon tax or refrigerant tax
- Pushed by incentive schemes
- Future-proof natural solution



TEWI

TOTAL EQUIVALENT WARMING IMPACT

TEWI [tons CO₂ eq.]

Direct emissions + Indirect emissions

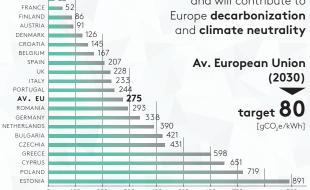
Leakage rate per year Service life (years) Leftover refrigerant after disposal Global Warming Potential

SWEDEN 8

LITHUANIA

Plant cooling / Heating load Efficiency Electricity consumption CO₂ emission intensity

European electricity **carbon intensity** is **dropping**, so **natural heat pumps** become day by day more **sustainable** and will contribute to



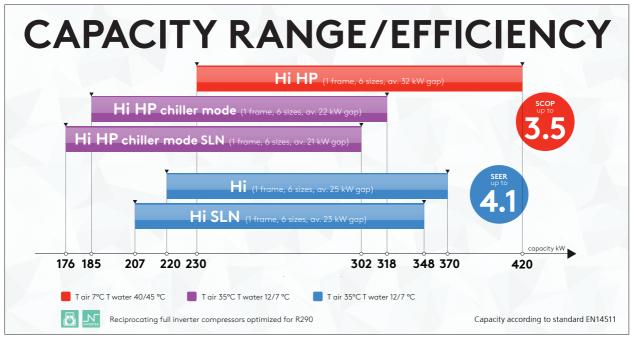
Electricity emission intensity [gCO₂e/kWh], 2019 data, Source EEA

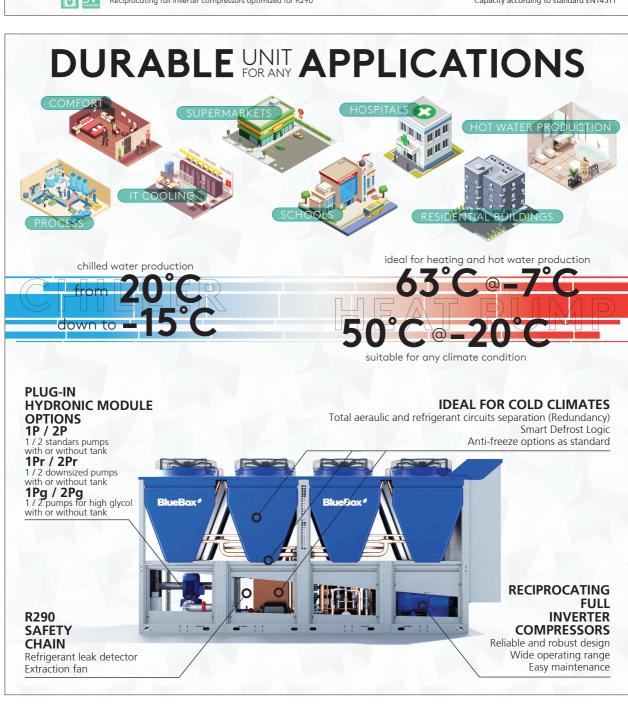
TITAN Zero

MINIMUM CARBON FOOTPRINT THANKS TO ITS

HIGH EFFICIENCY

LOW CHARGE OF PROPANE





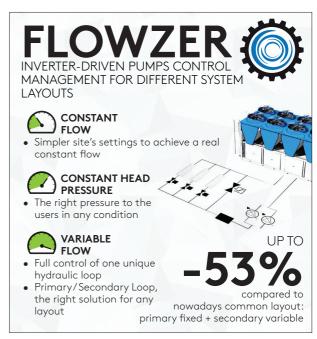


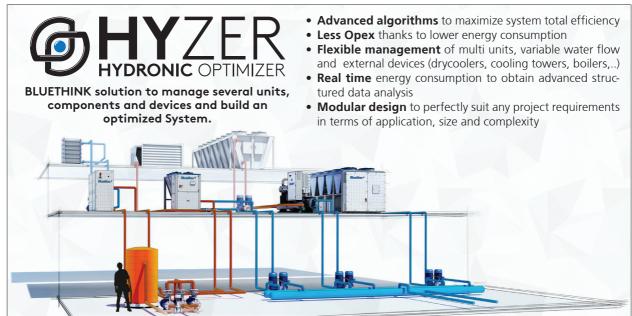
Monitoring, performance reports, full management.

Blue Box control platform allows a total access to the machine from any device, in complete autonomy.









Feel good **inside**

