



### **ZETA Zero HP**

Air source reversible heat pump with R290 refrigerant **30÷230** kW



# **ZETA Zero**

A NEW RANGE OF HEAT PUMPS



INVISIBLE TO ENVIRONMENT

Air source reversible heat pump with scroll compressors and plate heat exchangers:

- Fixed speed (HP version) or inverter (Hi HP version) compressors
- Integrated XR Function
- Low refrigerant charge
- Hot water production up to 70°C @-10°C ambient



# 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

# R290 H NATURAL REFRIGERANT H

#### SUSTAINABLE CHOICE

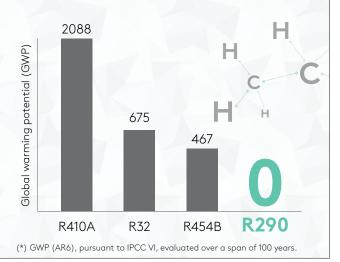
- Nearly zero Global Warming Potential (GWP≈0\*)
- No Ozone Layer impact
- Natural fluid
- Excellent thermodynamic properties
- -40% gas charge compare to R410A

#### **RELIABLE CHOICE**

• 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 CO<sub>2</sub> eq.]

Direct emissions + Indirect emissions

Leakage rate per year Service life (years) Leftover refrigerant after disposal Global Warming Potential Plant cooling / Heating load Efficiency Electricity consumption CO<sub>2</sub> emission intensity

European electricity carbon intensity is dropping, so natural heat pumps become day by day more sustainable



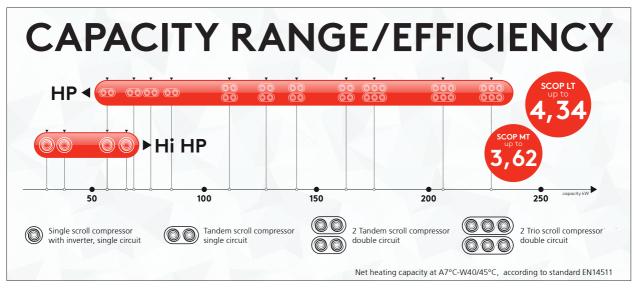
Electricity emission intensity [gCO<sub>3</sub>e/kWh], 2019 data, Source EEA

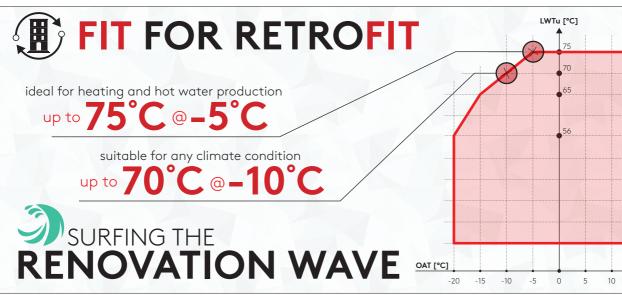
ZETA Zero

MINIMUM CARBON FOOTPRINT
THANKS TO ITS

HIGH EFFICIENCY

LOW CHARGE OF PROPANE







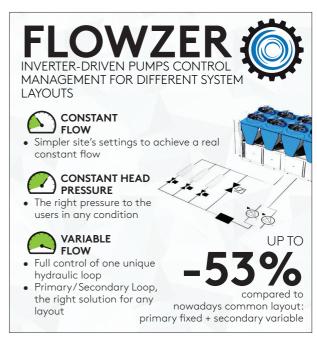


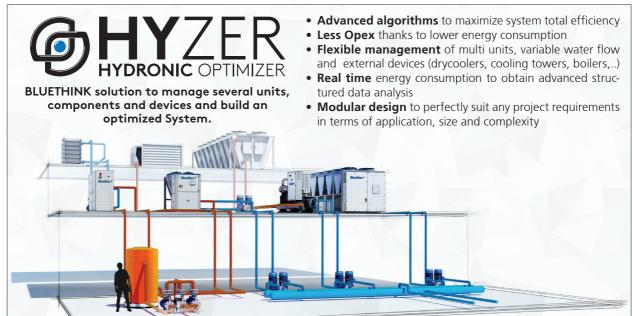
Monitoring, performance reports, full management.

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









## Feel good **inside**

