



## **OMICRON Zero S4**

High efficiency polyvalent units for 4-pipes system with refrigerant R290 cooling **50÷170** kW heating **50÷170** kW



## **OMICRON Zero**

# ENERGY IN LOOP WITH NATURE



PREMIUM Efficiency in all working conditions

- New "XR" integrated function
- Extended working envelope
- Extreme efficiency in all working conditions
- Reduced footprint
- Eurovent certified

E M I S S I O N

# 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

#### SUSTAINABLE CHOICE

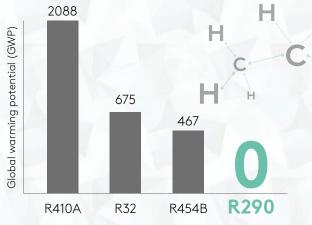
- Nearly zero Global Warming Potential (GWP≈0\*)
- Natural fluid
- Natural non toxic refrigerant
- No Ozone Layer impact
- -40% gas charge compare to R410A

#### RELIABLE CHOICE

• Implementation of the highest safety standard

#### **SMART CHOICE**

- No carbon tax
- Pushed by incentivation schemes
- Future-proof natural solution. On going HFC phase-out



(\*) GWP (AR6), pursuant to IPCC VI, evaluated over a span of 100 years.

## TEWI

TOTAL EQUIVALENT WARMING IMPACT

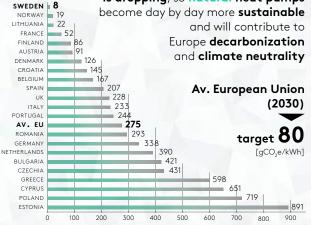
**TEWI** [tons CO, eq.]

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>2</sub>e/kWh], 2019 data, Source EEA

### OMICRON Zero

MINIMUM CARBON FOOTPRINT
THANKS TO ITS

**HIGH EFFICIENCY** 

LOW CHARGE OF PROPANE

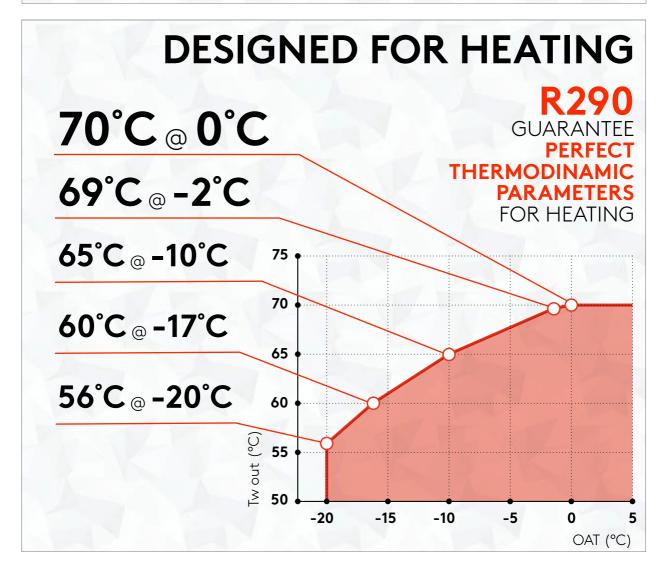
# CAPACITY RANGE/EFFICIENCY EXTENDED RANGE (12 kW gap up to 100 kW, 25 kW gap up to 170 kW) 100 heating appoint of the second condition of the second

Excellent efficency in all working conditions, especially in heating.

New **XR Function** (E**X**TRA **R**ECOVERY) allow to achieve high efficiency in all possible working conditions, keeping high capacity and efficiency also with extremelly low outside air temperature.

Combining High Efficiency version, heat recovery guaranteed from 4 pipes units and natural R290 refrigerant is possible to reduce Carbon Footprint of the unit and of the whole HVAC system providing really sustainable choice.

Net cooling capacity at A7 W 40-45 / according to EN14511



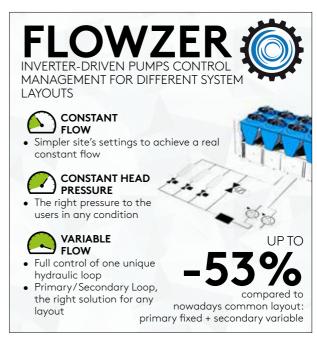


Monitoring, performance reports, full management.

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











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