

ZETA REV HP XT



XT



## ZETA REV HP XT

High efficiency air source  
reversible heat pumps  
heating **40÷200** kW

versatile  
Heating · Cooling · Ventilation

# ZETA REV HEAT PUMP IS NOW EXTREME

## General

High efficiency air source reversible heat pumps.

## Options

LN: low noise

DS: partial heat recovery

- Domestic hot water management
- Flowzer - Variable flow pump management
- Blueeye - Remote supervision
- Integrated hydraulic modules

EXTREME  
AMBIENT  
TEMPERATURE  
LIMITS  
DOWN TO  
-20°C

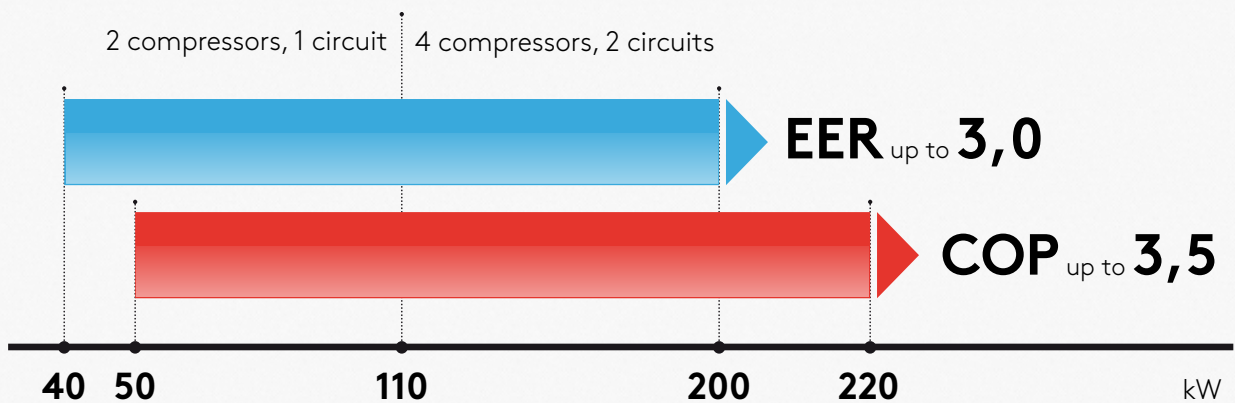
HIGH  
WATER  
TEMPERATURE  
UP TO  
65°C

COMPLIANT  
TO  
ECODESIGN

EXTREME  
EFFICIENCY  
COP  
UP TO 3,5



# RANGE & EFFICIENCY



Cooling net capacity: air 35°C; water 12/7°C  
 Heating net capacity: air 7°C DB; water 40/45°C

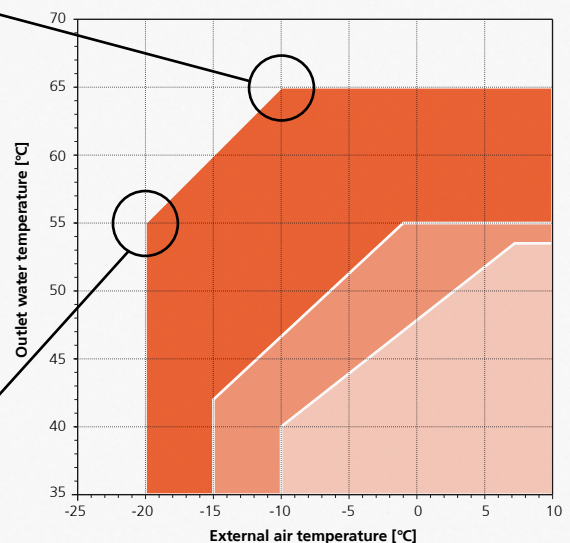


Compliant to  
**Regulation 813/2013-SCOP**  
 (whereas applicable).

# OPERATING LIMITS

**65°C**  
 water temperature  
**-10°C**  
 ambient temperature

**55°C**  
 water temperature  
**-20°C**  
 ambient temperature



**EXTREME** Heat Pump | **HIGH EFFICIENCY** Heat Pump | **STANDARD** Heat Pump

# DOMESTIC HOT WATER

The unit can also supply domestic hot water (option) by **3-way valve**

**Zeta Rev HP XT** allows to cover the whole thermal load requirement of the system, ensuring the space heating/cooling and also the request of domestic hot water. Satisfying these needs by means of a single unit offers a simpler, cost-efficient solution.

# VAPOUR INJECTION

- Injection technology allows heat pumps to withstand more extreme conditions than with conventional units.
- Lower air temperatures are reached, enhancing the use of heat pumps in cold climates.
- Hotter water can be obtained: reliable, flexible adoption in comfort systems with high temperature distribution – besides the supply of tap water.
- ZETA REV HP XT with VAPOUR INJECTION stretches further the combination of low air / high water temperatures, compared to simpler liquid injection.
- Vapour injection improves energy efficiency too: at extreme conditions it grants the best COP, for real savings.



Two scroll compressors per circuit. They are fitted to the vapour injection circuit via dedicated ports.

The injection circuit includes the economizer and the electronic expansion valve, all managed by advanced control algorithms.

## SMART ANTI-ICE CIRCUIT

The defrost cycle can be a critical condition: ZETA REV HP XT features the **Smart Anti-Ice Circuit**, to avoid ice forming on the bottom part of exchanger: the function is efficiently activated according to air temperature - only when necessary.



## EC AXIAL FANS



EC axial fans with electronically commutated brushless motor as option.

**15%** energy saving per fan  
**2.000\*** €/y saving


(\*unit with 8 fans; operating 8700 hours/year; 0,10 €/kWh)

# BLUE ● ● ● ● ● ● ● ● THINK

Monitoring, performance reports, full management.

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

## Integrated web server



- **SET POINT**  
operating set point
- **MODE**  
unit mode (heating, cooling)
- **UNIT**  
visual status of unit (circuits, compressors..)
- **GRAPHS**  
real time diagrams of main variables (temperatures, pressure..)
- **INPUT/OUTPUT**  
status of inputs / outputs (digital and analogic)
- **MULTILOGIC**  
management of multiple units
- **LOGS**  
download and analyze unit data history



## BLUEYE CONNECT

REMOTE ACCESS TO UNIT

SAVE MONEY  
FAST SERVICE




## BLUEYE CLOUD

CLOUD RECORDING DATAPOINTS

PREDICTIVE MAINTENANCE  
CUSTOMER REPORTING  
ANALYSIS



## FLOWZER



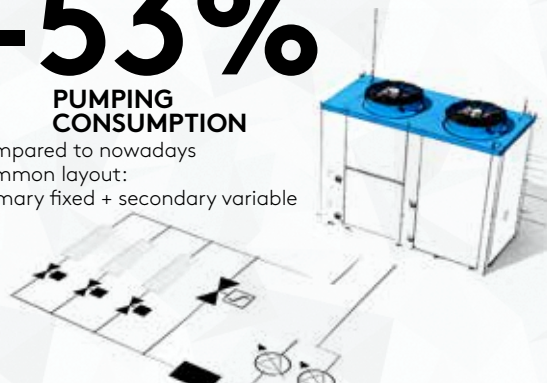
INVERTER-DRIVEN PUMPS CONTROL  
MANAGEMENT FOR DIFFERENT SYSTEM  
LAYOUTS

UP TO

# -53%

**PUMPING CONSUMPTION**

compared to nowadays  
common layout:  
primary fixed + secondary variable




## HYZER

HYDRONIC OPTIMIZER

**BLUETHINK solution to manage several units, components and devices and build an optimized System.**

- **Advanced algorithms** to maximize system total efficiency
- **Less Opex** thanks to lower energy consumption
- **Flexible management** of multi units, variable water flow and external devices (drycoolers, cooling towers, boilers,..)
- **Real time** energy consumption to obtain advanced structured data analysis
- **Modular design** to perfectly suit any project requirements in terms of application, size and complexity



# versatile

Heating · Cooling · Ventilation

