





High efficiency air source chillers and heat pumps cooling **40**÷**240** kW









NIGHTSHIFT FUNCTION

**★ EER** up to 3.26
 ( - 3 dB(A)

EXTENDED OPERATING LIMITS

UP TO 4, 45



#### General

Chillers and reversible units. Extended range, versatile applications. Also with inverter-driven brushless compressors.

#### Configurations

HE: high efficiency SLN: Super Low Noise

SEi-HEi: inverter-driven compressor

/HP: reversible heat pump

LE: with remote user-side heat exchanger

/LN: low noise

DC:with desuperheater DS: with total recovery







## ECODESIGN framework Directive (2009/125/EC)

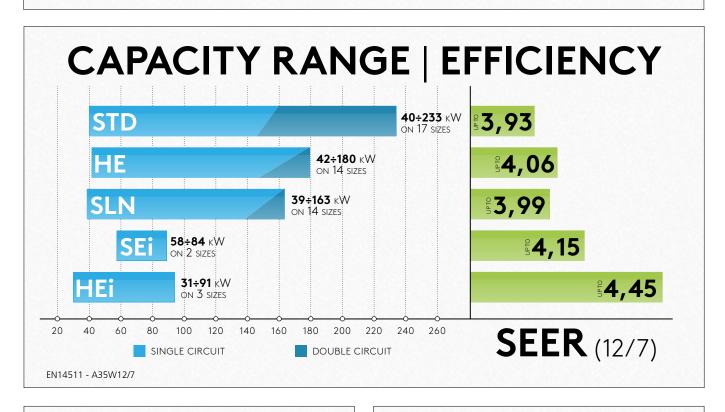


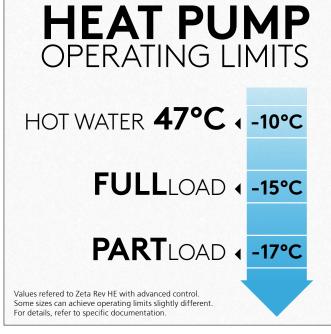




- The **ECODESIGN Directive**, with its Regulations, sets new challenging standards for a more efficient use of energy
- For the European market, all chillers and heat pumps must comply with related seasonal efficiency targets
- SEER SEPR HT Regulation 2281/2016: chillers and large heat pumps; mandatory since January 1st, 2018
- SCOP Regulation 813/2013: small heat pumps

All ZETA REV models comply to tier 1 • SEER (LT, MT) and SEPR HT. All ZETA REV heat pumps comply to Ecodesign (SCOP)





# **HYDRAULIC**

A wide range of options allow to configure the chiller to suit various application. Differentiated levels of pump's useful head are available, with or without buffer tank.

STANDARD > av. 1,5 bars

OVERSIZED > av. 2,7 bars

INDUSTRIAL ▶ up to ◆

### SEI·HEI VERSIONS DC INVERTER SCROLL COMPRESSOR



Units with 1, 2 or 3 compressors, of which one brushless inverter DC type:

- higher energy efficiency at part load
- higher cooling capacity at peak load
- more accurate temperature control

## energy saving

12% per year

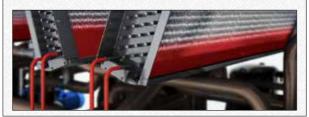
(compared with standard scroll compressor)

Yearly saving based on Ecodesign's SEER profile, comfort application.

### SMART ANTI-ICE CIRCUIT

REVERSIBLE HEAT PUMP VERSIONS

The defrost cycle can be a critical condition: ZETA REV 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.





The unit (HE or SLN) can operate in high efficiency mode or super low noise mode according to day time setting.

Zeta Rev HE →← Zeta Rev SLN

### up to 3 dB(A)

of sound power reduction



**Zeta Rev** chillers use this new generation of condensing coil as standard.

30% LESS REFRIGERANT 10% OVERALL CHILLER WEIGHT REDUCTION LESS AIR SIDE PRESSURE DROP

### EC AXIAL

FANS ELECTRONICALLY COMMUTATED BRUSHLESS MOTOR AS OPTION



#### **STANDARD**

15% ENERGY SAVING PER FAN
1.000 €/y\* SAVING

( \*2 unit with 3 fans; operating 8700 hours/year; 0,10 €/kWh

**OVERSIZE** 

FURTHER ENERGY SAVING



+ 100 Pa

AVAILABLE PRESSURE PER FAN



### PRESSURE RECUPERATOR

+ 50 Pa

AVAILABLE PRESSURE PER FAN COMPARED TO OVERSIZED FANS

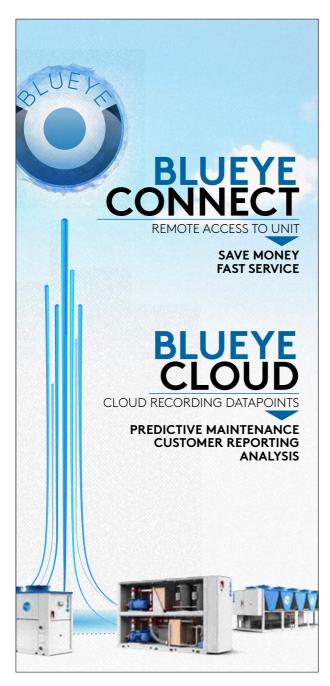
UP TO 3dB(A)

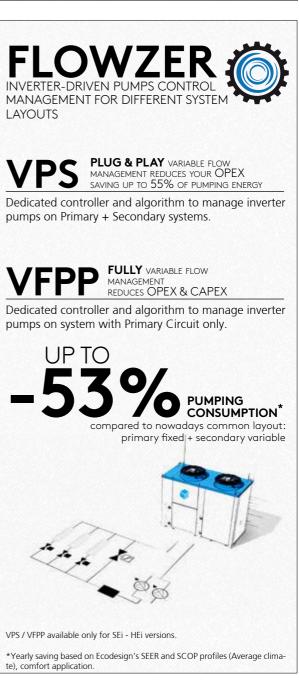


Monitoring, performance reports, full management.

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







### **Blue Box** applied product range

find out the complete product range on our web site and catalogues



### Zeta Rev HP XT > 40÷200 kW



Reversible heat pumps. Extreme heating envelope. Smart configuration options.















#### Beta Rev > 40÷240 kW



Chillers and reversible units for indoor installation. Extensive range, also with self-adaptive highefficiency fans.



















### Tetris 2 > 84÷913 kW



Modular chillers and reversible units for large commercial systems. Wide range; multiple combinations of high-efficiency, low-noise versions.

















### Kappa Rev > 296÷1983 kW





Modular chillers and reversible units for large commercial systems. Wide range and versions

















#### Tetris W Rev > 32÷615 kW



Water-source chillers, with heating and reversible versions. Extensive range, versatile applications.













### Omega Sky > 444÷1589 kW





Water-source chillers with heat pump reversible versions for indoor installations.













Omicron Rev S4 > 100÷860 kW





Modular multifunctional units for large 4-pipe systems. Smart configuration options.

















