





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)

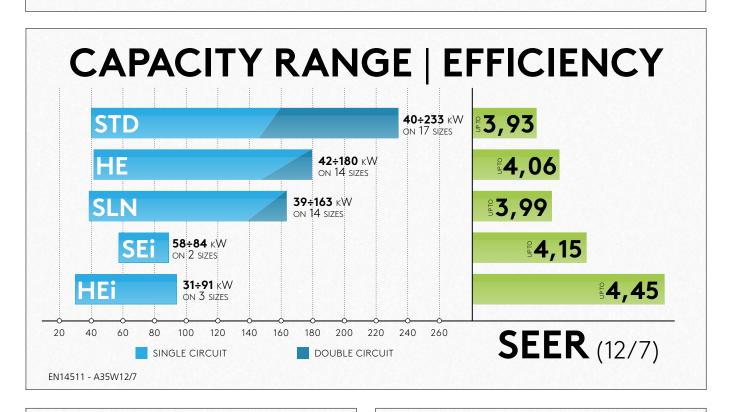
NERGY RELATED PRODUCTS EFFICI

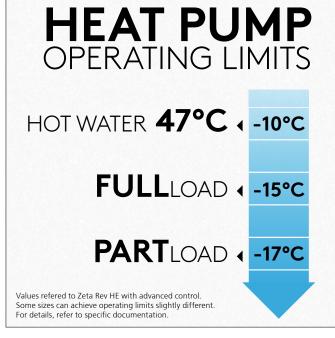


- The **ECODESIGN Directive**, with its Regulations, sets new challenging standards for a more efficient use of energy
- For the European market, all chillers and heat pumps must comply with related seasonal efficiency targets
- SEER SEPR HT Regulation 2281/2016: chillers and large heat pumps; mandatory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

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 **5** bars

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.

