

Zeta Rev .Ei

Air cooled inverter chiller



30÷90 kW

General

High efficiency chillers with inverter-driven scroll compressors.

Configurations

SEi: Smart efficiency inverter version

HEi: High efficiency inverter version

Bullet points

- ▶ Brushless DC inverter-driven scroll compressor, also combined with conventional scroll compressors
- ▶ Eurovent class A
- ▶ Night Shift function, with silent night operation
- ▶ Advanced control, with integrated web server
- ▶ Multilogic function for multiple unit system
- ▶ Integrated hydraulic modules also with a buffer tank
- ▶ WISE WATER (option), management of variable flow on primary circuit with inverter-driven pumps on user side
- ▶ Management of freecooling (option)



REVolutionary Efficiency inverter

EC
inverter
fans*

Microchannel
condensing coil

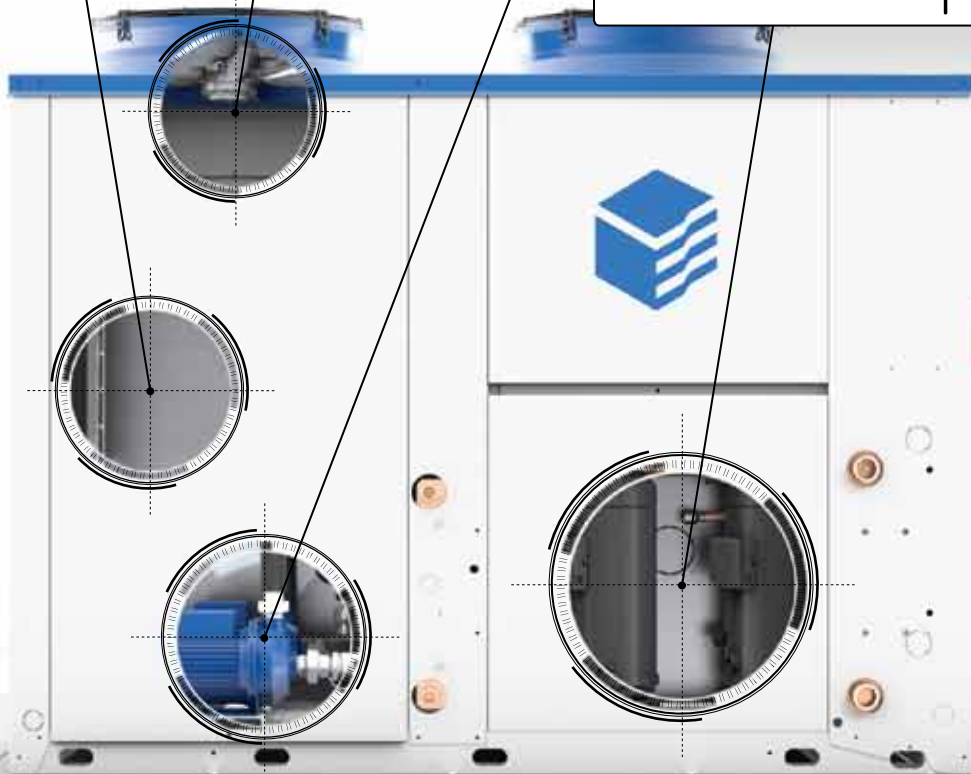
WISE
WATER
control*

DC INVERTER
scroll compressor

PAYBACK TIME
less than

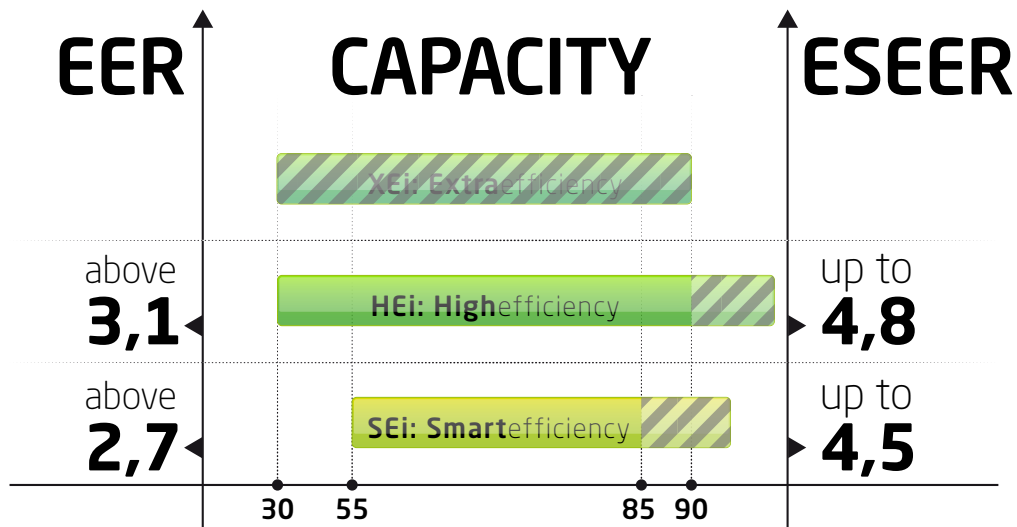
TWO YEARS

compared to
conventional units



*: as option

UNIT RANGE

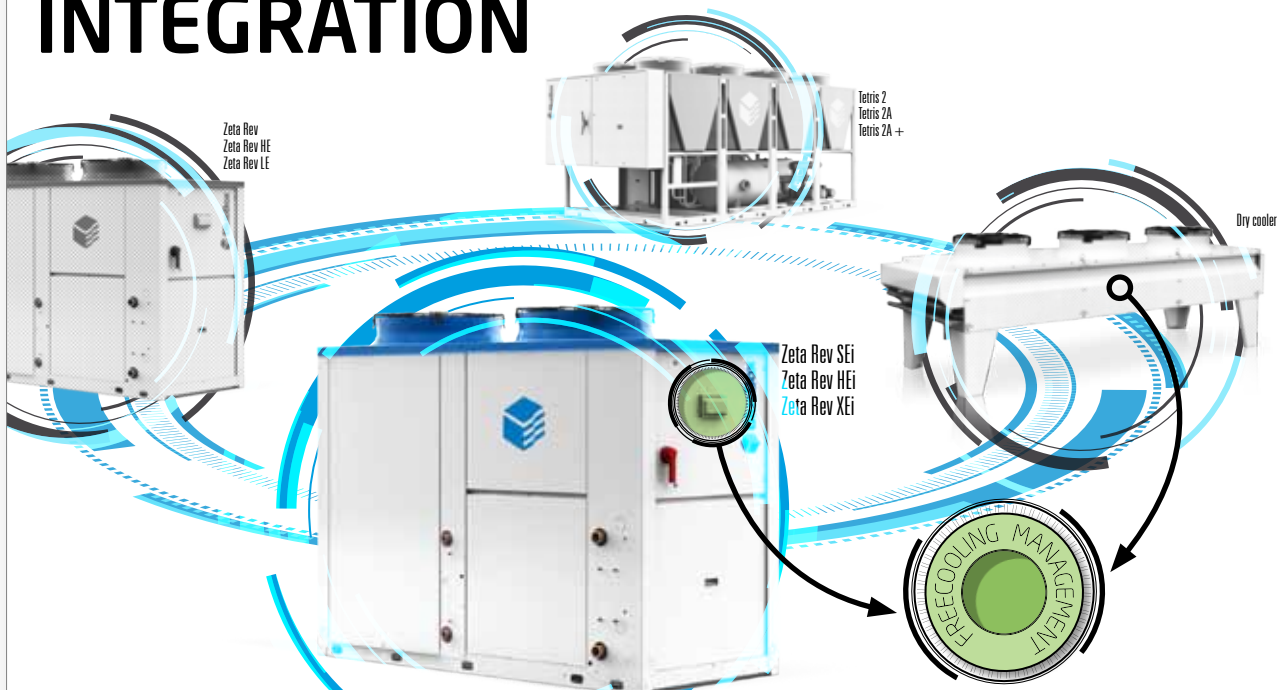


Preliminary values referred to nominal regime
Ambient air temperature 35°C; evaporator inlet/outlet water temperature 12-7 °C
EER value compliant with EN 14511.

ADVANCED SYSTEM INTEGRATION

MAIN FEATURES

- > USB, RS485 and Ethernet ports as standard
- > Recording of unit parameters one month long
- > Integrated web server as standard for remote management



MULTILOGIC FUNCTION

- > Up to 31 different units managed together
- > Master / Slave logic
- > Different plant configurations

FREECOOLING MANAGEMENT

- > Embedded function on Zeta Rev unit
- > Flexible selection by customer of additional components: 3-way valve and dry-cooler operation
- > Separate fan sections for chiller and freecooling operation
- > Freecooling system with Eurovent-certified unit

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

**up to 12%
per year**

(compared with standard scroll compressor)

WISE WATER option

Management of systems with variable flow on the primary circuit, associated to inverter-driven pumps:

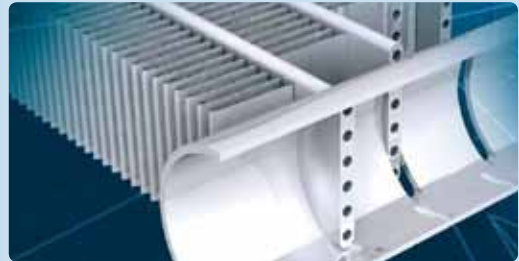
- Reduced energy consumption
- Saved footprint
- Simplified piping
- Self-adaptive algorithms suitable for different system requirements

pumping
energy saving

50%

MICROCHANNEL ALUMINIUM COIL

Zeta REV .Ei units use this new generation of condensing coil as standard.



FEATURES & BENEFITS

- Extended life cycle
- less air side pressure drop

**30% less
refrigerant**



INTEGRATED WEB SERVER

Unit management by integrated web page always available. User friendly interface based on visual icons:



Set point



Alarm



Synoptic



Service



In/Out



Graphs

EC AXIAL FANS

EC axial fans with electronically commutated brushless motor as option.

15%

energy saving per fan

GNS (Association for Nuclear Service)
Essen - Germany
7 x DATA TECH
3 x ZETA ECHOS FC
2 x ZETA ECHOS



GNS

GNS Gesellschaft für
Nuclear-Service von
Friedrichshafen GmbH

Blue Box technological product range

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



Zeta Echos FC > 44÷143 kW

High efficiency air cooled freecooling chillers. Patented system.



Tetris FC series > 97÷518 kW

High efficiency air cooled modular freecooling chillers.



Kappa V Evo FC > 325÷1178 kW

High efficiency air cooled freecooling chillers.



Kappa Rev HEi & XEi > 286÷1451 kW

Air cooled chillers and heat pumps with Inverter compressor.



Tetris W FC/NG > 39÷634 kW

High efficiency water cooled freecooling chillers with integrated hydronic module.



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