

# Kappa Rev



Air cooled modular screw chiller & heat pump



Image based on Kappa Rev XEi (full inverter compressors)

296 ÷ 1983 kW

## General

High energy efficiency chillers with screw compressors also driven by inverter and shell&tube exchanger.

## Configurations

HE: High efficiency unit  
LN: Low noise unit  
SLN: Super Low noise unit  
HP: Reversible heat pump  
DS: Unit with desuperheaters  
DC: Heat exchange condenser  
HAT: unit for high temperature of external air  
HWT: unit for production of water at high temperature  
HEi: unit with hybrid compressors  
XEi: unit with full inverter compressors  
Pump and integrated buffer tank available as option

## Bullet points

- ▶ Full inverter and hybrid versions available
- ▶ Up to 2 MW cooling and heating capacity
- ▶ High seasonal efficiency
- ▶ Eurovent A Class Unit
- ▶ Multilogic function
- ▶ Integrated web server
- ▶ Microchannel condensing coil
- ▶ Low refrigerant charge
- ▶ Wide operating limits
- ▶ Integrated hydraulic modules also with a buffer tank.
- ▶ Three types of pumps: standard, oversize and for high percentages of glycol (e.g. up to 50%).

# Revolution BF61NS

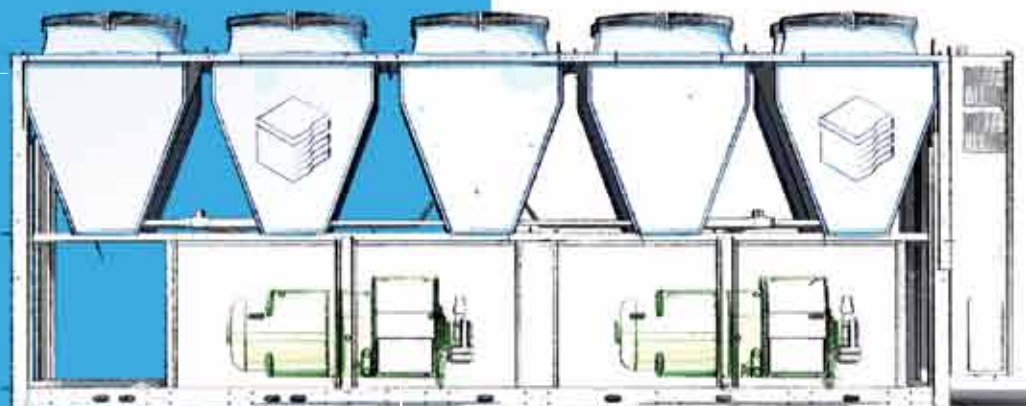
MODULAR DESIGN



SHELL AND TUBE EXCHANGER

MICROCHANNEL ALUMINIUM COIL

EC FANS



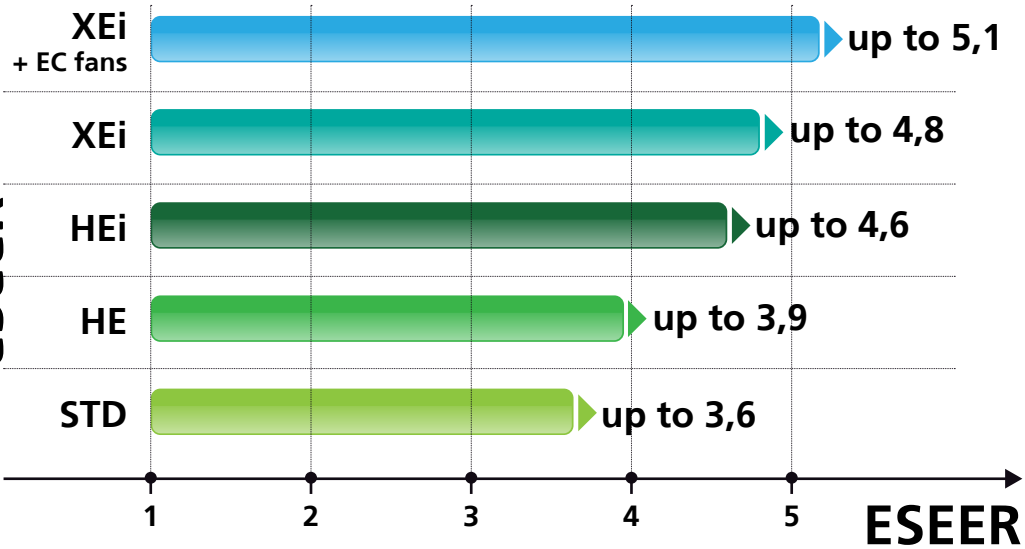
INVERTER SCREW COMPRESSORS (HYBRID AND FULL VERSION)

SUPPLY  
UP TO 2 MW

ESEER  
UP TO 5,1

# EFFICIENCY

## ESEER



# VERSIONS

Version	EER	Class
STD	av 2,8	
HE	≥ 3,1	A CLASS
SLN	av 3,0	
HEi	≥ 3,1	A CLASS
XEi	≥ 3,0	A CLASS

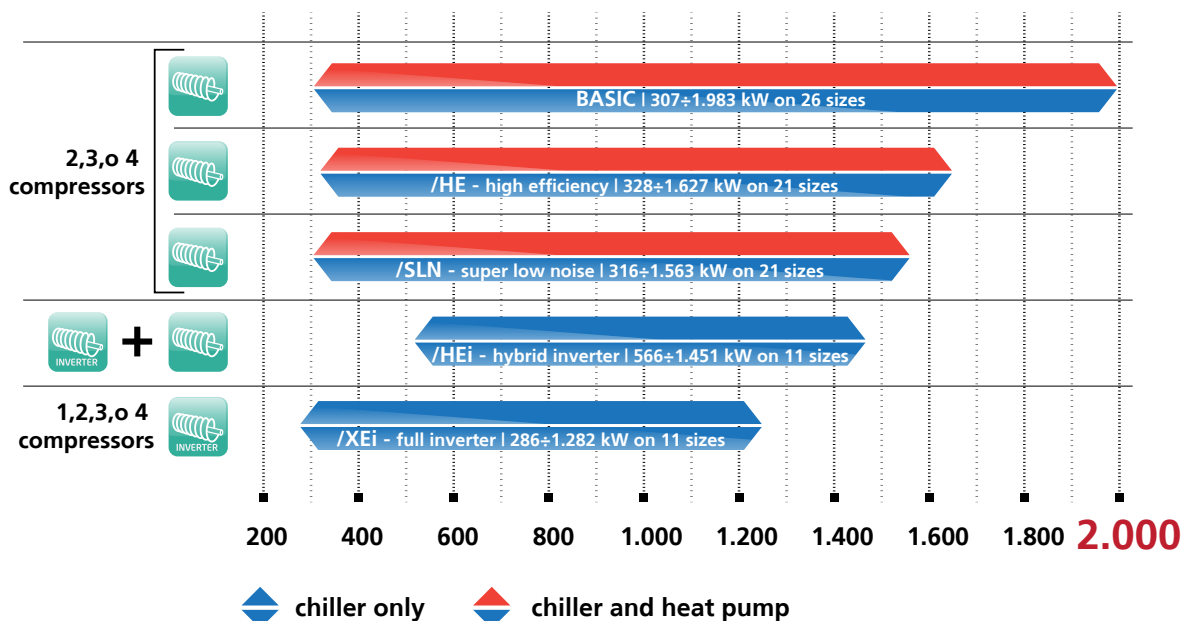
EER Values conform to EN 14511-3:2011

Kappa Rev series is available with a host of options and configurations to meet most designers requirements.

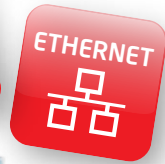
**HYBRID INVERTER VERSION**  
inverter screw + stepless screw compressor

**FULL INVERTER VERSION**  
all inverter screw compressors

# WIDE CAPACITY RANGE



# SMART CONTROL



## ADVANCED CONTROL FUNCTIONS

### MASTER-SLAVE

the higher efficiency at part load grants the maximim benefit in redundancy applications

- Unit management by integrated web page ←
- Data logging of all units parameters one month long ←
- User friendly interface based on visual icons ←
- RS485 and Ethernet ports as standard ←
- Fast restart procedure in case of power supply interruptions ←

### MULTILOGIC FUNCTION

- Up to 32 units (1 Master e 31 Slave) connected to the same hydronic circuit ←
- Management of units with different logics and priority levels ←

## INVERTER SCREW COMPRESSOR



Inverter compressor is

### up to 38%

more efficient than stepless compressor

Min part load operation  
**up to 6%**  
(4 compressors unit)

## EC AXIAL FANS

EC axial fans with electronically commutated brushless motor as option.

**15%**  
energy saving per fan  
**3.000\***  
€/y saving

(\*unit with 12 fans; operating 8700 hours/year; 0,10€/kW)

## MICROCHANNEL ALUMINIUM COIL

**Kappa Rev** units use this new generation of condensing coil on chiller section as standard.



This means:

- Extended life cycle
- 30% less refrigerant
- 10% overall chiller weight reduction
- less air side pressure drop

## NIGHT SHIFT SYSTEM

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

Kappa Rev HE\* ↔ Kappa Rev SLN

**up to 6 dB(A)**  
of sound power reduction

\*Kappa Rev HE must be configured as Kappa Rev SLN



**E -Plus neighborhood (Datacenter for mobile operator)**  
**Düsseldorf - Germany**  
2 x screw chillers + 20x Datatech  
Supply -> 3 MW



# Blue Box applied product range

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



## Epsilon Echos series > 6÷44 kW



High efficiency air cooled chillers and heat pumps.



## Zeta Rev > 40÷240 kW



## Beta Rev > 40÷240 kW



High efficiency air cooled chillers and heat pumps.



## Tetris 2 series > 84÷913 kW



High efficiency air cooled modular chillers and heat pumps.



## Kappa V Evo series > 637÷1750 kW



Air cooled water chiller.



## Tetris W Rev series > 32÷615 kW



High efficiency water cooled chillers and heat pumps.



## Omega Rev series > 143÷1569 kW



Water-cooled chillers and heat pumps.



## Omicron Rev S4 > 100÷450 kW



High efficiency air cooled multifunctional units for 4-pipe systems.



## Omicron V Evo > 335÷773 kW



Air cooled multifunctional units for 4-pipe systems or independent production of domestic hot water, heating and cooling.



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