





Air cooled modular screw chillers and heat pumps cooling **286**÷**1983** kW





Revolutionary Freecooling

modular freecooling













HAT

HE igh efficienc

hvbrid inverter

i XEi

KEI LG

100%
Mechanical cooling
STD > ESEER up to 3.6
HE > ESEER up to 3.9
HEi > ESEER up to 4.6
XEi > ESEER up to 5.1

100%
freecooling
(TFT: Total freecooling temperature)

Basic > TFT up to -2°C

Custom > TFT up to 1,5°C

Extra > TFT up to 3°C



EFFICIENCY

modular freecooling



modular freecoling uses less yearly energy

up to -14%

compared to common freecooling method

Total cost per year ▶ € 151.712,00 (0,11 €/kW)

Energy saving referred to KAPPA REV FC, in comparison to the KAPPA REV (nominal cooling capacity 820÷840 kW - inlet/outlet water temparature 15/10 °C; e.g. 30%)

The common method of freecooling chillers is to use a close couple condenser and freecooling coil, which shares the same fans and air flow.

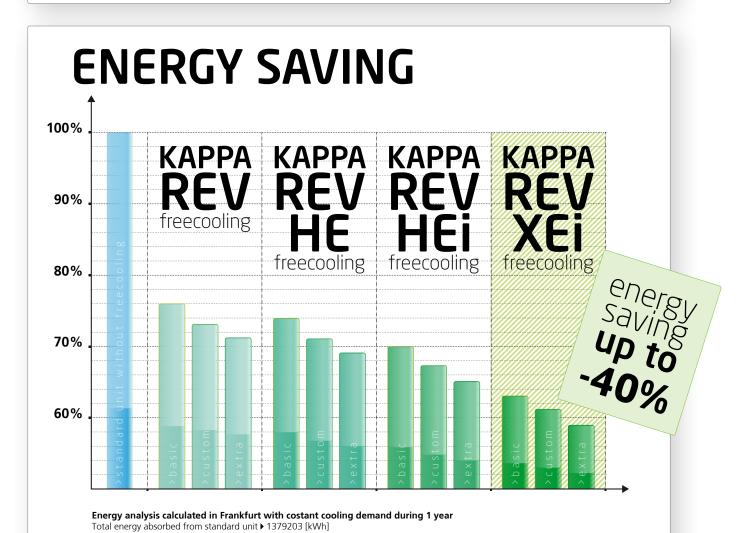
The result is a compromise of efficiency performance.

- Summertime EER is lower than non freecooling units.
- All fans need to operate all time.

Kappa Rev FC have two dedicated sections that have their own fans and coils functioning independently, to ensure the optimium balance between mechanical cooling and free cooling

This means that:

- **Freecooling section** operates with fan speed control to maximise the freecooling mode, while fans are stopped in summer.
- **Chiller section** operate with fan speed control with condensing control function in hybrid freecooling mode, or stopped fans when 100% freecooling is achieved.
- **Designed structure** allows more configurations with 3 different freecooling levels.



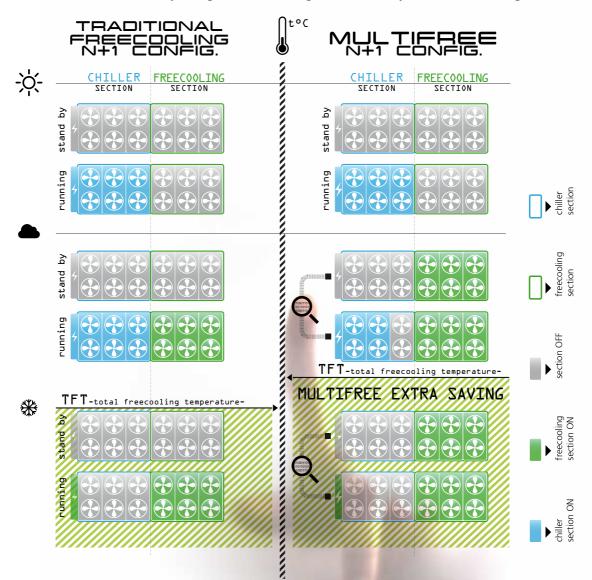


MULTILOGIC FUNCTION

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

MULTIFREE FUNCTION

> Maximise the efficiency using the freecooling from stand-by unit in n+1 configuration





Blue Box technological product range

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



Zeta Rev .Ei > 32÷91 kW



High efficiency air cooled chillers with brushless DC inverter scroll compressor.













Zeta Rev FC > 44÷143 kW



High efficiency air cooled free coolingchillers. Patented system. Available also with brushless DC inverter compressor.













Tetris FC > 97÷518 kW



High efficiency air cooled free cooling modular chillers.











Kappa Rev .Ei > 286÷1451 kW High efficiency air cooled modular chillers with inverter screw compressors.















Kappa V Evo FC > 325÷1178 kW















Tetris W FC/NG > 39+634 kW



High efficiency water cooled free cooling chillers with integrated hydronic module.









Kappa Rev LGW > 240÷1020 kW



Low GWP, high efficiency air cooled modular chillers, also with free-cooling module.











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