## Kappa Rev FC Air cooled modular freecooling chiller



High energy efficiency freecooling chillers with screw compressors also driven by inverter characterized by a substantial energy saving, high performance and low noise emission.

#### **Mechanical Configurations**

- STD: standard efficiency
- HE: High efficiency unit
- SLN: Super Low noise unit
- HEi: unit with hybrid compressors
- XEi: unit with full inverter compressors

#### **Freecooling Configurations**

Basic: **TFT** up to  $-2,4^{\circ}$ C ( $-5^{\circ}$ C as avg) Custom:**TFT** up to  $+1,3^{\circ}$ C ( $-1^{\circ}$ C as avg) Extra: **TFT** up to  $+3,1^{\circ}$ C ( $+2^{\circ}$ C as avg)

#### **Bullet points**

- Dedicated freecooling section
- Full inverter and hybrid versions available
- ► Eurovent A Class Unit
- Eurovent certified chiller section
- Hybrid freecooling: capability, in the mid seasons, to operate in mixed mode freecoling/chiller
- SLN unit with Night Shift function
- 3 efficiency levels of the chiller section, combinable with 3 levels of TFT of freecooling section
- Multilogic function
- Integrated web server
- Microchannel condensing coil



# **Revolutionary** Freecooling

## modular freecooling















## EFFICIENCY

#### modular freecooling



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.



### ADVANCED CONTROL FUNCTIONS

- > 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

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### **MULTIFREE FUNCTION**

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



Atlantic Haus Hamburg - Germany 2x screw air cooled freecooling chillers Supply -> 1,1 MW

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