





Air cooled modular freecooling chiller **97**÷**518** kW





MODULAR FREECOOLING

without compromise

General

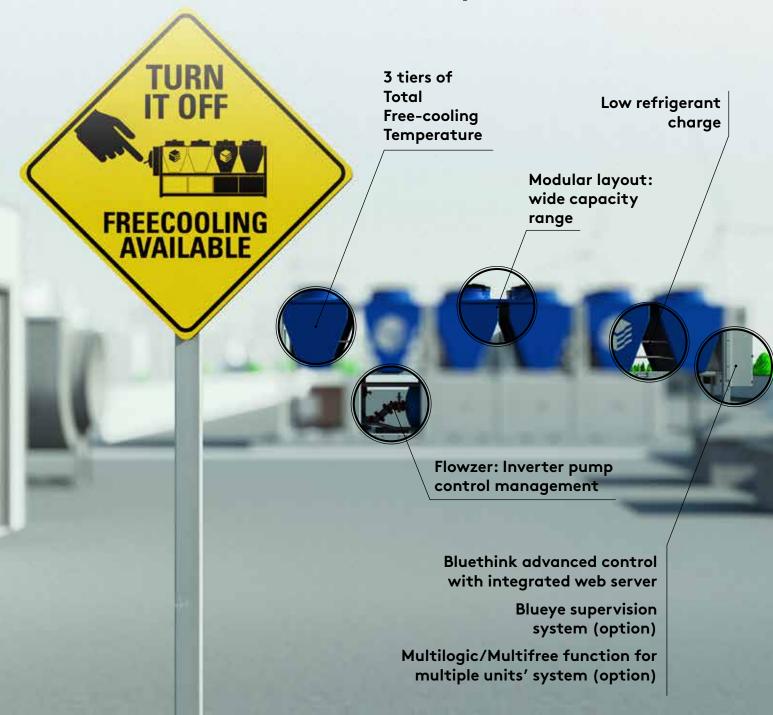
High efficiency modular free-cooling chillers. Air source. Scroll compressors. Plate exchanger. Selectable dedicated free-cooling module.

Configurations

A and A+: High efficiency unit LN: Low sound level SLN: Superlow sound level DS: Desuperheater

DC: Recovery condenser

3 free-cooling modules: Basic, Custom, Extra



EFFICIENCY

modular free-cooling



modular free-coling uses less yearly energy

up to -16%

compared to common free-cooling method

The common method of free-cooling 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 free-cooling units.
- All fans need to operate all time.

Tetris 2 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 free-cooling mode, or stopped fans when 100% freecooling is achieved.
- **Designed structure** allows more configurations with 3 different free-cooling levels.

Tetris 2 FC allow all combinations with 3 free-cooling levels. Every chiller version can be couple with the different free-cooling sections.



ENERGY SAVING

	Basic	Custom	Extra
MILAN (0,22 €/kW)	13%	17%	20%
	29.000 €/y saving	38.000 €/y saving	45.000 €/y saving
LONDON (0,10 €/kW)	17%	21%	23%
	16.000 €/y saving	20.000 €/y saving	22.000 €/y saving
BERLIN (0,11 €/kW)	22%	26%	28%
	23.000 €/y saving	27.000 €/y saving	29.000 €/y saving
MOSCOW (0,06 €/kW)	38%	41%	44%
	21.000 €/y saving	23.000 €/y saving	25.000 €/y saving

Energy saving achieved using TETRIS 2 FC, in comparison to the correspondent standard unit

Tetris 2 FC 47.6, nominal cooling capacity 518 kW -- inlet/outlet water temparature 15/10 °C; e.g. 30%

€/kW: Derived from the International Energy Agency publication, Energy Prices and Taxes; Prices include all taxes where not refundable on purchase.



EXTENDED OPERATING LIMITS

Operating limit reachable with SUN accessory, heaters for operation with air below -25°C



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

up to 3 dB(A) of sound power reduction



EC AXIAL FANS | 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 €/kWh



FURTHER ENERGY SAVING + 100 Pa

AVAILABLE PRESSURE PER FAN



LESS AIR SIDE PRESSURE DROP

+ 50 Pa

AVAILABLE PRESSURE PER FAN
COMPARED TO OVERSIZED FANS

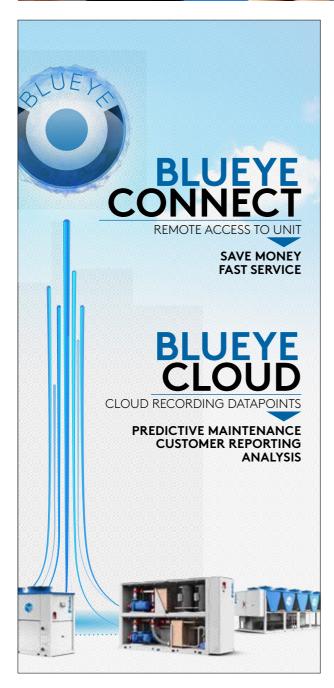
UP TO 3dB(A)
OF UNIT NOISE REDUCTION

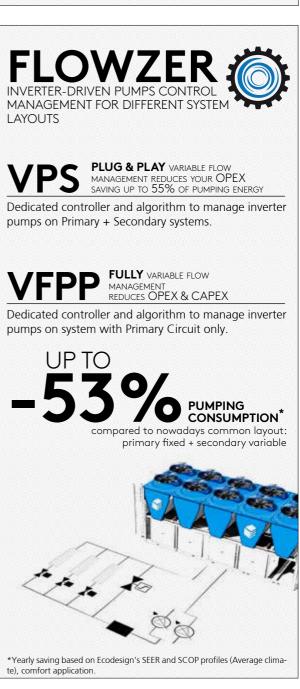


Monitoring, performance reports, full management.

Blue Box control platform allows a total access to the machine from any device, in complete autonomy.







Blue Box technological product range

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



Zeta Rev .Ei & FC > 30÷90 kW



Chiller range with high overall efficiency. Versatile configuration. Free-cooling model: independent section, no-glycole option.

















Zeta Rev HE FC > 44÷143 kW



 $\label{thm:cooling} \begin{tabular}{ll} Free-cooling chillers. Extensive range, versatile applications. Independent free-cooling section, no-glycole option. \end{tabular}$















Kappa Rev FC > 320÷1300 kW



Modular free-cooling chillers for large systems. Wide range and versions available. Selectable independent free-cooling module.

















Kappa Rev .Ei & FC > $286 \div 1451 \text{ kW}$



Modular chillers for large systems. High overall efficiency, two tiers. Wide capacity range. Free-cooling model: selectable independent module.



















Kappa Rev LGW & FC > 240÷1020 kW



Low GWP modular chillers for large systems. Unique width of range and versions. Free-cooling model: selectable independent module.

















Kappa V Evo & FC > 325÷1178 kW



Compact chillers for large systems. Free-cooling model available.















Tetris W Rev FC/NG > 39:634 kW



Water-source free-cooling chillers, no-glycole. Wide range, fully integrated management.











