



Tetris 2



FACTORY HOTEL
Münster - Germany



Air cooled modular
chillers and heat pumps
cooling **84÷913** kW



SAVING & PERFORMANCE

AT REAL CONDITION YEAR-ROUND

General

The generation of energy efficient, highly configurable modular chillers and reversible units with scroll compressors, created to meet the needs of commercial and industrial sectors.

Configurations

A and A+: High efficiency units
LN: Low noise unit
SLN: Super Low noise unit

HP: Reversible heat pump
DS: Partial heat recovery
DC: Total heat recovery

Night Shift System
operating as high efficiency or super
low noise mode according to daytime

Eco-Friendly
Low refrigerant charge

Multilogic function for
multiple units' system (option)

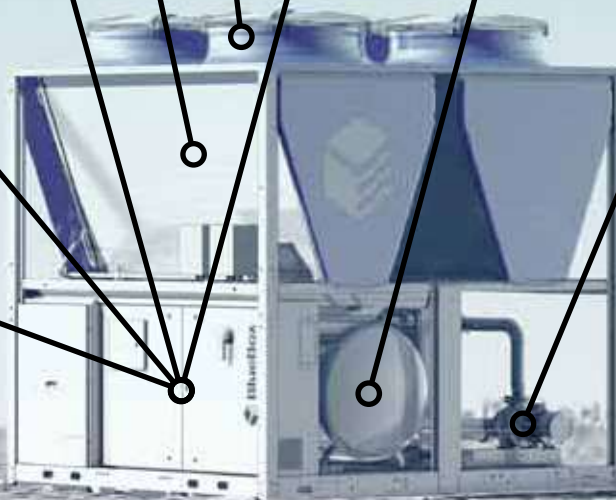
Blueye supervision
system (option)

Bluethink advanced
control with integrated
web server

Extended
operation limits
in heating

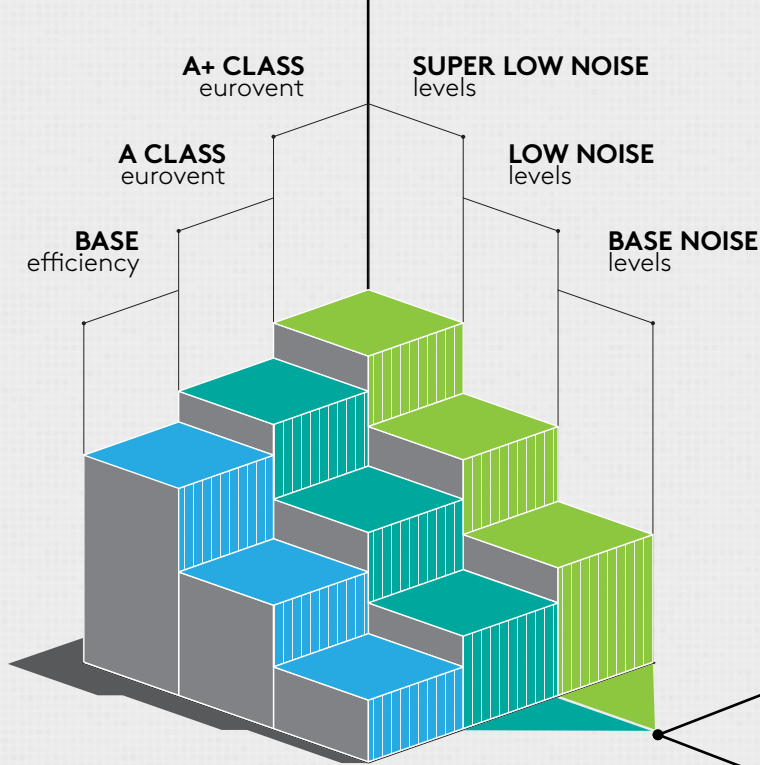
Integrated hydraulic modules
also with a buffer tank

Flowzer: Inverter pump
control management
Flowzer VFPP: variable
flow primary pump



OPTIMIZED EFFICIENCY & NOISE REDUCTION

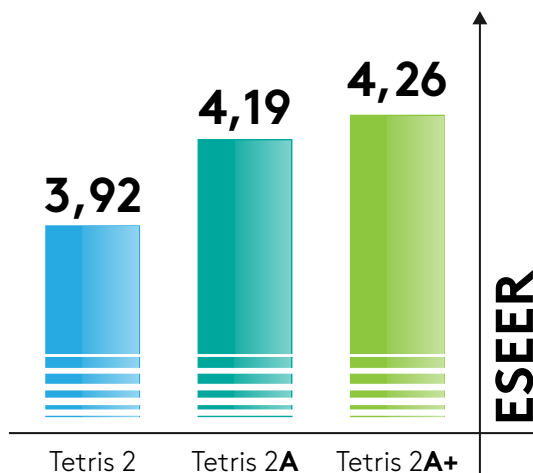
EFFICIENCY < > NOISE LEVELS



High efficiency units available compliant to **Regulation 2016/2281-SEER tier1 2018.**

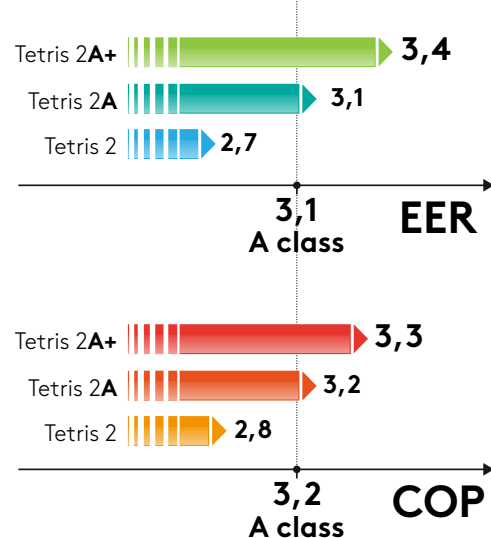
Reversible units compliant to **Regulation 813/2013-SCOP** (whereas applicable).

HIGH EFFICIENCY AT PART LOAD (average values)



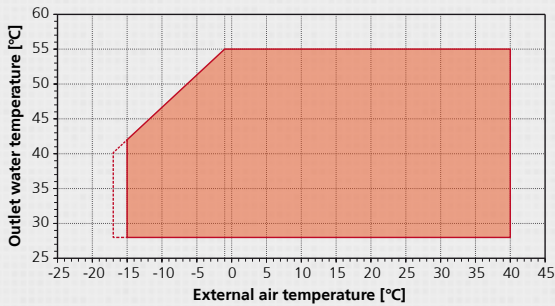
Net values conforming to EN 14511 at nominal conditions.

A CLASS FOR BOTH HEATING & COOLING (average values)



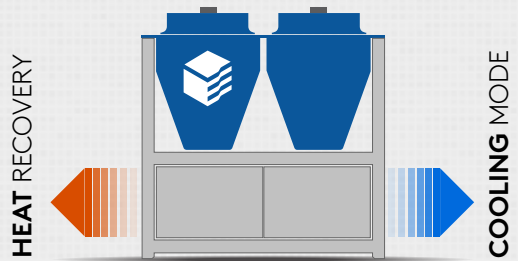
HEATING

OPERATING LIMITS



55°C at **-1°C**
FULL LOAD down to **-15°C**
down to **-17°C** PART LOAD

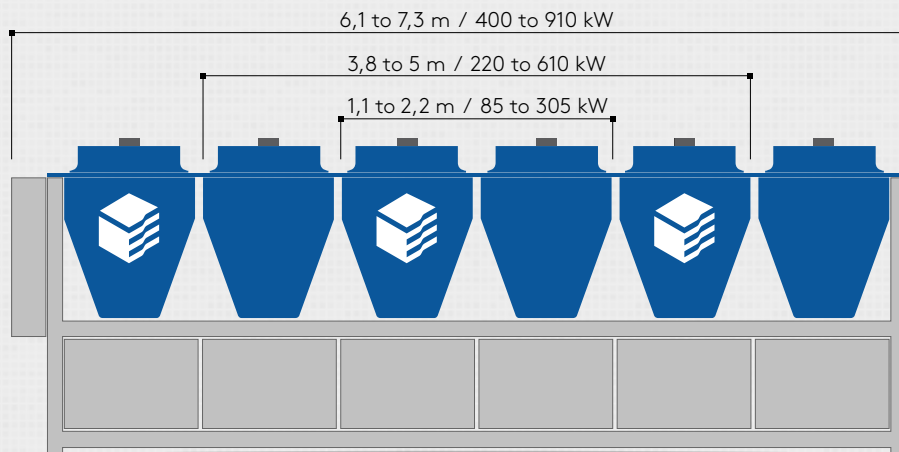
HEAT RECOVERY



ENERGY RECOVERY
UP TO 100% RECOVERY IN COOLING MODE

COMPACTNESS

► best solution for replacement projects



AVERAGE
1,3 m
less
THAN
TYPICAL
COMPETITORS

MICROCHANNEL ALUMINIUM COIL

Tetris units use this new generation of condensing coil as standard.

30% LESS REFRIGERANT
10% OVERALL CHILLER WEIGHT REDUCTION
LESS AIR SIDE PRESSURE DROP

EC AXIAL FANS



EC axial fans with electronically commutated brushless motor as option.

15% energy saving per fan
2.000* €/y saving

(*unit with 8 fans; operating 8700 hours/year; 0,10 €/kWh)



BLUE ● ● ● ●

● ● ● ● THINK

control platform

Integrated web server main features



Set point
operating set point



Alarms
alarm history



Unit
visual status of unit
(circuits, compressors..)



Input/Output
status of inputs / outputs
(digital and analogic)



Graphs
real time diagrams
of main variables
(temperatures, pressure..)

- > USB, RS485 and Ethernet ports as standard
- > Recording of unit parameters one month long

MULTILOGIC FUNCTION

Management of multiple units of a system / hydraulic loop.

- > Specific operational logics to satisfy different installation requirements
- > Maximized energy efficiency
- > Feature fully embedded in the control resources and factory-preset
- > Fast commissioning. Simple LAN connection between units. No external devices required.

BLUEYE

Remote supervision via web by Blue Box.

It offers, for one or more units / systems:

- > operation status monitoring
- > access to unit's settings and parameters
- > data recording via cloud, with options about data displaying, graphs, etc.
- > differentiated access profiles and privileges to ensure a safe and efficient interaction
- > also the status of system's additional components can be monitored, e.g. pumps, energy meters, valves



FLOWZER

HYDRAULIC MANAGEMENT OPTIONS
BASED ON INVERTER-DRIVEN PUMPS

The new family of scalable options associated to the wide range of built-in pump modules.

For each application layout, FLOWZER offers the best-fitting solution about the water distribution to the system:

- Pumping energy saving; minimized operational cost
- No external devices required.

> **Flowzer VP**

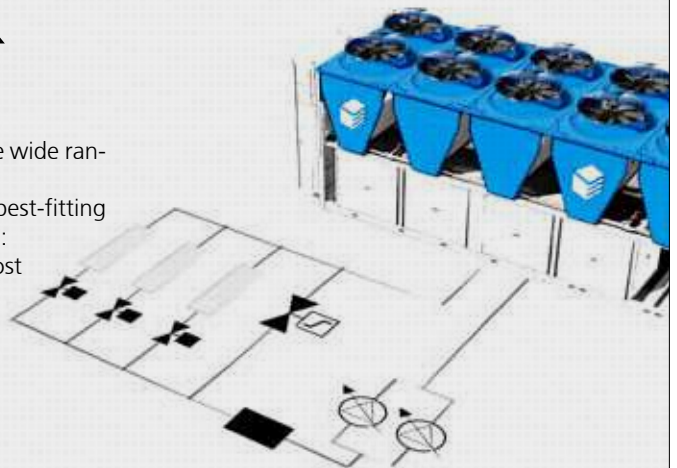
Operation at fixed speed setpoint

> **Flowzer VD**

Management of constant ΔP

> **Flowzer VPS**

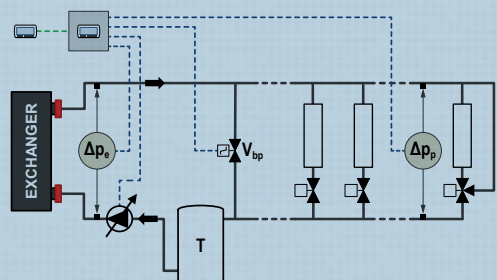
Management of constant ΔT on Primary/Secondary pump circuit



> **Flowzer VFPP**

Management of constant ΔT on primary pump circuit
Simplified system's circuit, as additional external pumps of secondary circuit are not required.

up to -80%
pumping energy consumption*



*Based on 4000 hours of operation in cooling mode (0,15 €/kWh). With Tetris 2, additional saving achieved for year-round operation in heating.