



# 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)

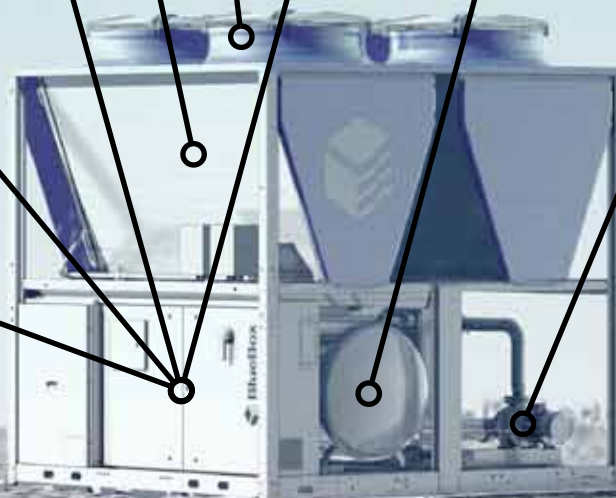
**Blueye supervision**  
system (option)

**Bluethink advanced**  
control with integrated  
web server

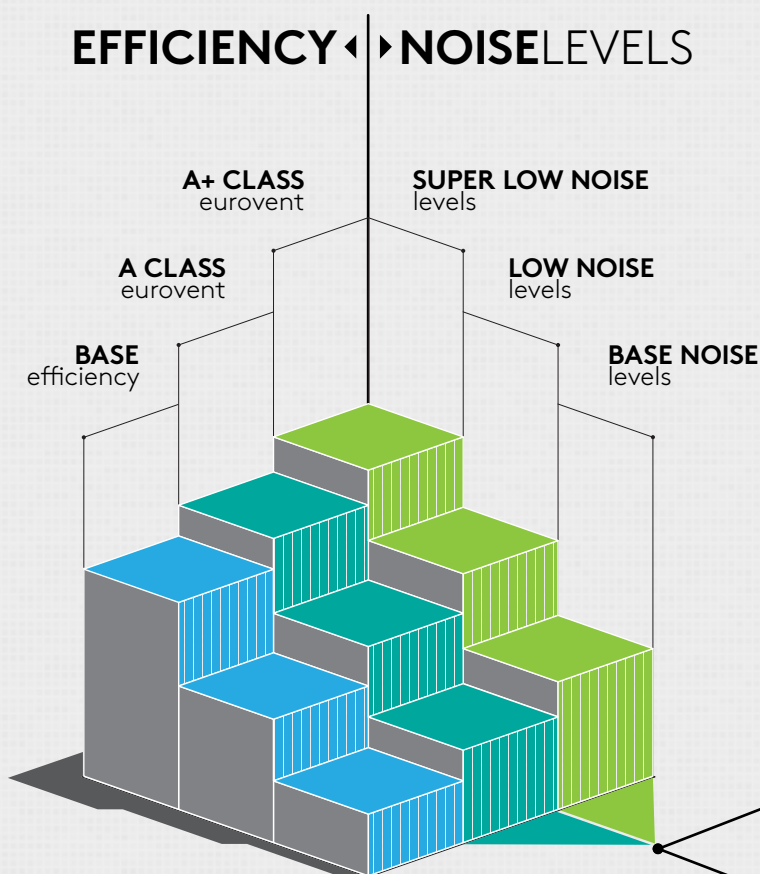
**Extended**  
operation limits  
in heating

**Integrated hydraulic modules**  
also with a buffer tank

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



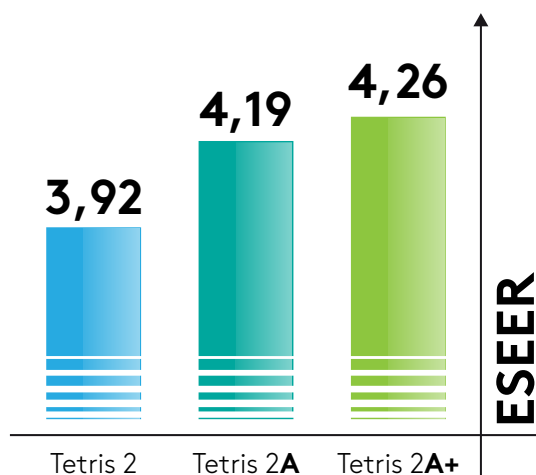
# OPTIMIZED EFFICIENCY & NOISE REDUCTION



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

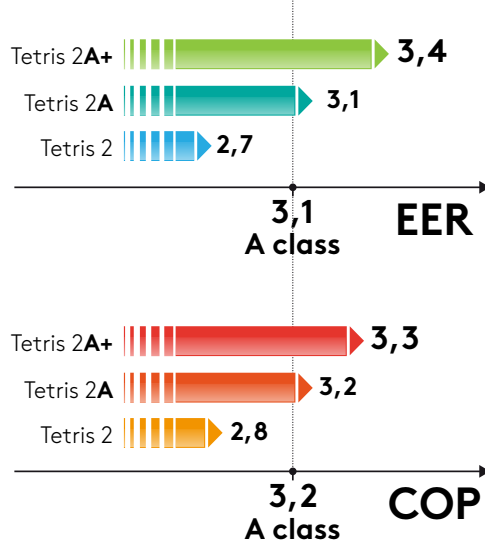
Reversible units compliant to  
**Regulation 813/2013-SCOP**  
(whereas applicable).

## HIGH EFFICIENCY AT PART LOAD (average values)



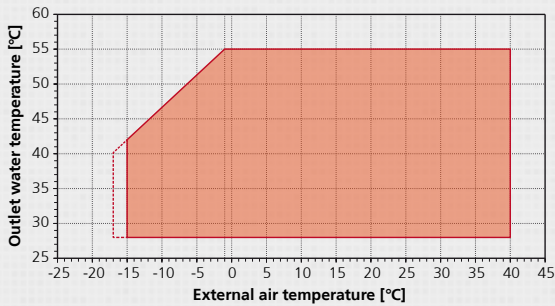
Net values conforming to EN 14511 at nominal conditions.

## A CLASS FOR BOTH HEATING & COOLING (average values)



# HEATING

## OPERATING LIMITS

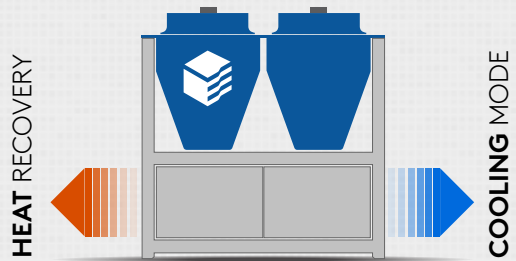


**55°C** at **-1°C**

**FULL LOAD** down to **-15°C**

down to **-17°C** **PART LOAD**

## HEAT RECOVERY

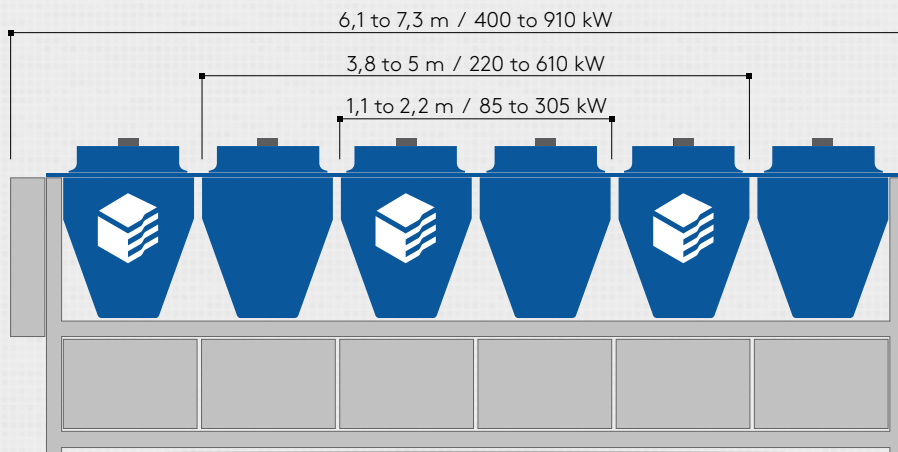


## ENERGY RECOVERY

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

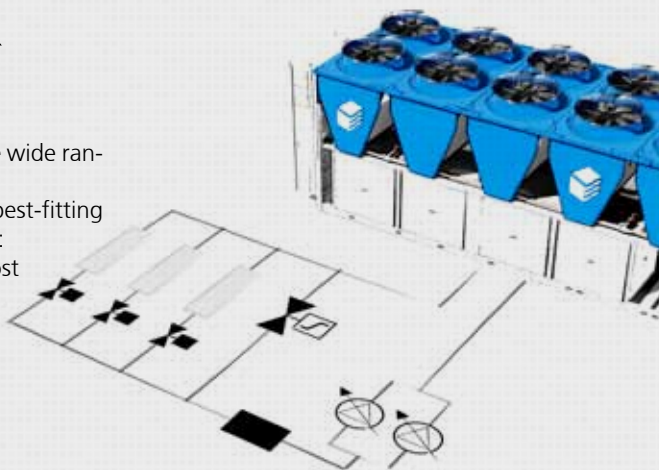
Operation at fixed speed setpoint

#### > Flowzer VD

Management of constant  $\Delta P$

#### > Flowzer VPS

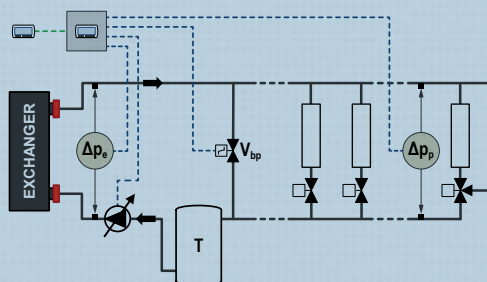
Management of constant  $\Delta T$  on Primary/Secondary pump circuit



#### > Flowzer VFPP

Management of constant  $\Delta T$  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.

# 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.



## Kappa Rev series > 296÷1983 kW



High efficiency air cooled modular chillers and heat pumps.



## 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÷860 kW



Multi-functional units for 4-pipe systems



Blue Box Group S.r.l.

Via Valletta, 5 - 30010 Cantarana di Cona, (VE) Italy

www.bluebox.it - info@bluebox.it

Phone +39 0426 921111 - Fax +39 0426 302222