OMICRON REV S4

Multi-functional unit for 4-pipe systems
cooling **40÷850** kW
heating **45÷890** kW

BlueBox
by Swegon

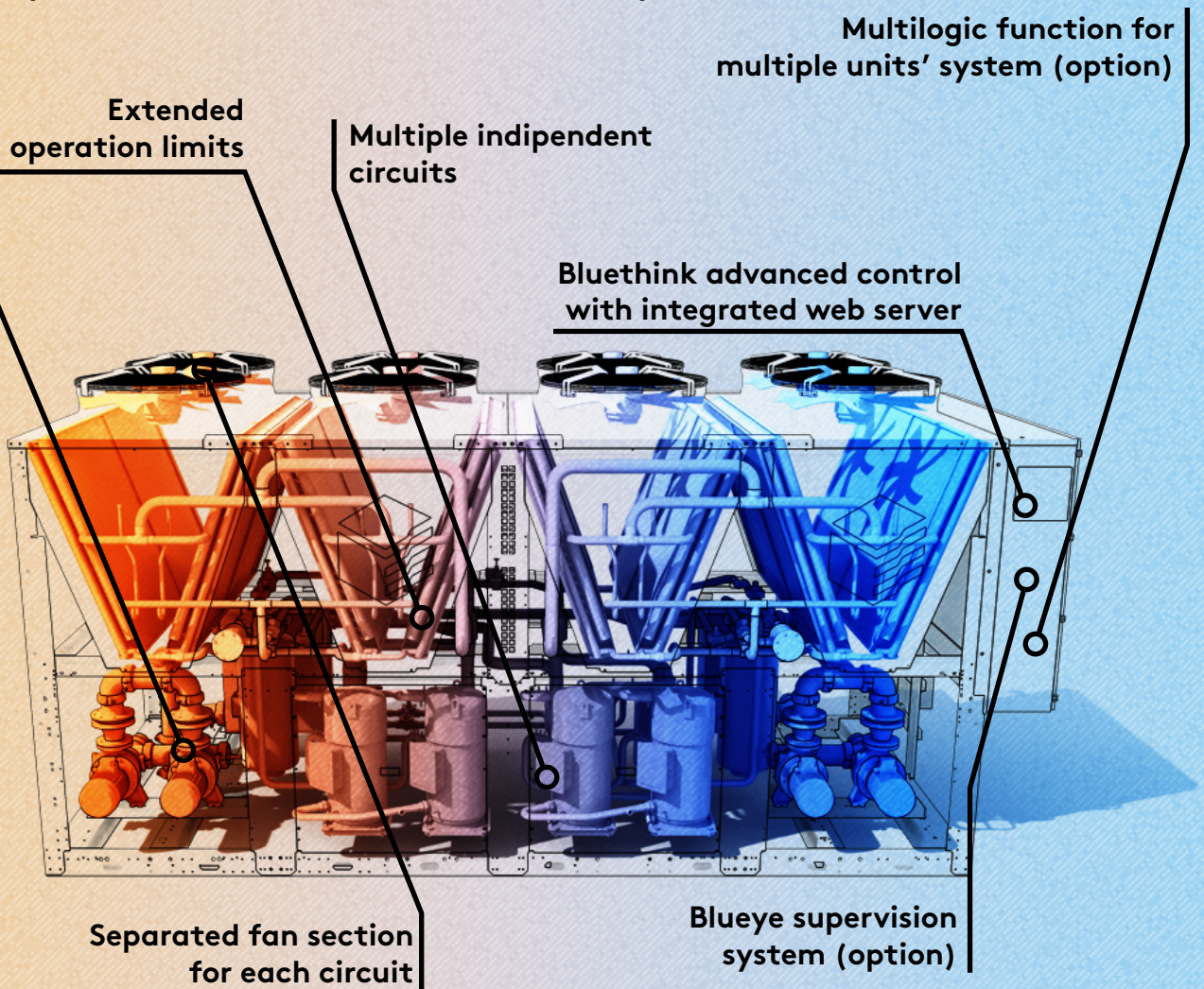
Omicron Rev S4

Designed for simultaneous heating and cooling in 4-pipe systems

General
High efficiency modular multifunctional units for 4-pipe systems. Units with scroll compressors, 2 refrigerant circuits and plate heat exchangers (x.2 and x.4 sizes); with 3 or 4 circuits and shell&tube heat exchangers (x.6 and x.8 sizes). Two heat exchangers for independent and simultaneous supply to cooling and heating water circuits. Air source, axial fans.

Configurations
HE: high efficiency unit
HE/LN: high efficiency, low noise unit
SLN: super low noise unit

Flowzer options: inverter driven pump management
Flowzer VFPP, VPS:
- **Bluethink-based solutions**
- **Variable flow to maximize savings on pumping consumption**
- **Smart options for both refurbishments and new systems**



ERP 2021 SEER

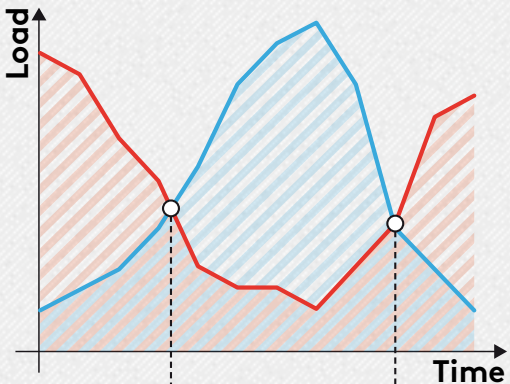
EUROVENT CERTIFIED PERFORMANCE
www.eurovent-certification.com

4-PIPE SYSTEMS

With nowadays construction techniques and increased thermal insulation, depending on solar exposure more and more commercial buildings require simultaneous cooling and heating during mid season and winter.

Moreover, latest European regulations are incentivizing the use of electrical heat pumps for heating, even in Northern European countries.

OMICROV REV S4 range has been designed to fulfill this market demand about providing cooling and heating simultaneously for warm and cold climates as well.



ENERGY SAVING

Cooling mode

EER up to **3.25**

Heating mode

COP up to **3.31**

Combined mode

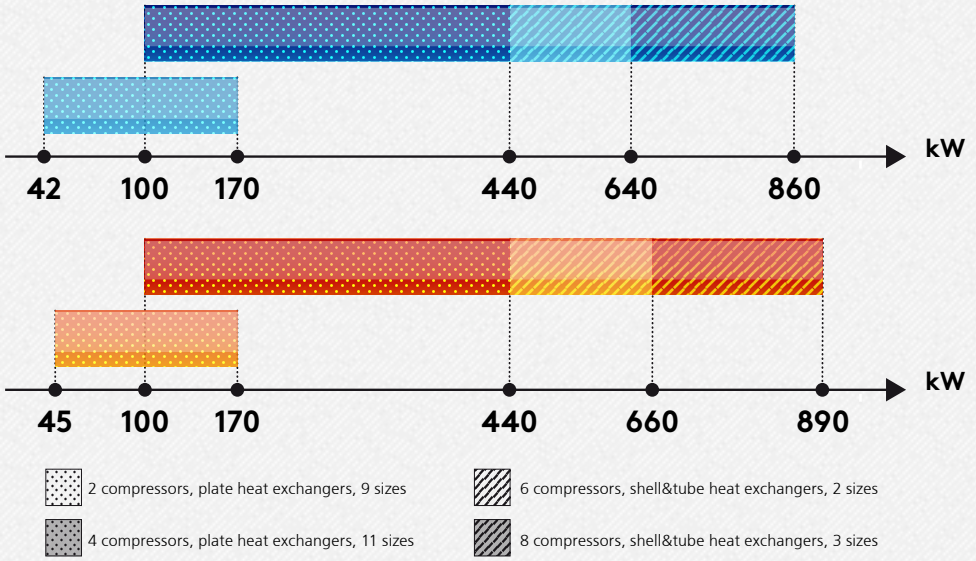
TER: $\frac{P_{cooling} + P_{heating}}{P_{a\ compressors}}$

up to **8.05**

Max € saving

EER=A35 W12-7; COP=A7(6) W40-45 – net values according to EN14511.
TER=W12-7 W40-45

WIDE CAPACITY RANGE



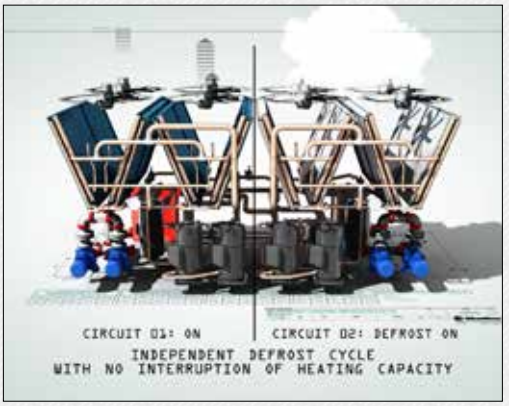
High Efficiency

Excellent efficiency at full load, especially for cooling mode.
Moreover, outstanding part-load performances can be achieved thanks to the partialization steps and the smart logic developed for OMICRON REV S4, also in the case of multiple units integrated into a single large system.
Efficient multifunctional units such as OMICRON REV S4 allow to obtain better ratings, compared to alternative traditional systems, in programmes or incentives based on energy efficiency and sustainability.
Qualifying the system in such a way provides also an intrinsically higher value for the building.

Net cooling capacity at A35 W12-7 – according to EN14511

PERFORMANCE EXTENDED THROUGHOUT THE YEAR

Operational limits favourable also for the heating mode:
up to 55°C leaving water temperature.
This is ideal for modern, energy-efficient buildings.
OMICRON REV S4 can operate **down to -15°C**, granting heating output without interruptions.
In fact, the defrost cycle can be a critical condition:



Fully independent modular coils' sections for **each refrigerant circuit.**
Separate fan sections allow independent defrost cycles, just when necessary.
No disruptions during heating mode operation.

T air
-15°C
Mode: heating (full load)

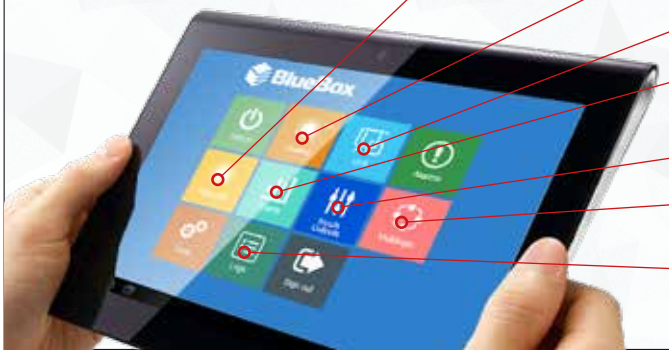
up to T air **45°C**
Mode: cooling (full load)

up to T water **55°C**
Heating (for T air down to -1°C)
or **Combined mode**

BLUE ● ● ● ●
● ● ● ● THINK

Monitoring, performance reports, full management.
Blue Box control platform allows a total access to the machine from any device, in complete autonomy.

Integrated web server



- **SET POINT** operating set point
- **MODE** unit mode (heating, cooling)
- **UNIT** visual status of unit (circuits, compressors..)
- **GRAPHS** real time diagrams of main variables (temperatures, pressure..)
- **INPUT/OUTPUT** status of inputs / outputs (digital and analogic)
- **MULTILOGIC** management of multiple units
- **LOGS** download and analyze unit data history

BLUEYE CONNECT

REMOTE ACCESS TO UNIT

SAVE MONEY
FAST SERVICE

BLUEYE CLOUD

CLOUD RECORDING DATAPOINTS

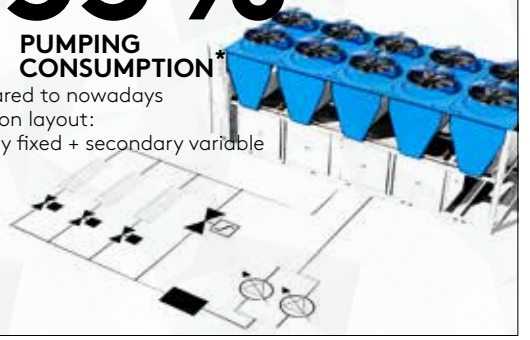
PREDICTIVE MAINTENANCE
CUSTOMER REPORTING
ANALYSIS

FLOWZER

INVERTER-DRIVEN PUMPS CONTROL MANAGEMENT FOR DIFFERENT SYSTEM LAYOUTS

UP TO
-53%
PUMPING CONSUMPTION*

compared to nowadays common layout: primary fixed + secondary variable



HYZER HYDRONIC OPTIMIZER

BLUETHINK solution to manage several units, components and devices and build an optimized System.

- **Advanced algorithms** to maximize system total efficiency
- **Less Opex** thanks to lower energy consumption
- **Flexible management** of multi units, variable water flow and external devices (drycoolers, cooling towers, boilers,..)
- **Real time** energy consumption to obtain advanced structured data analysis
- **Modular design** to perfectly suit any project requirements in terms of application, size and complexity

Feel good **inside**

Swegon

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