

OMICRON SKY S4 R5



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Multi-function unit for 4-pipe systems
and R454B refrigerant
cooling **40÷800 kW**
heating **45÷840 kW**



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Energy Loop

Omicron Sky

use waste energy from different applications to generate new one for free, creating infinite energy loop and increasing **indoor environmental quality**.



Specifically **designed to reduce carbon footprint** of the whole HVAC system combining:

- **High efficiency in every working mode**
- **MAX Heat Recovery in every working conditions due to advanced integrated control and integrated of 4 pipes system**
- **R454B with low Global warming potential and excellent thermodynamic characteristic**

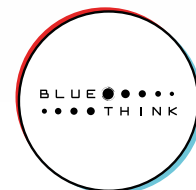
Modular multifunctional units for 4-pipe systems. Units with scroll compressors, 2 or more refrigerant circuits totally independent to guarantee perfect functioning in every possible working mode.



Eurovent certified



Low GWP below 500



Advanced control



CLIMATE CHANGE CHALLENGE

Keep temperature increase **below 1.5°C**
 Become a **climate neutral economy**



**REDUCE CARBON FOOTPRINT
 IN EVERY POSSIBLE WAY**

TEWI

TOTAL EQUIVALENT WARMING IMPACT

Direct emissions + Indirect emissions

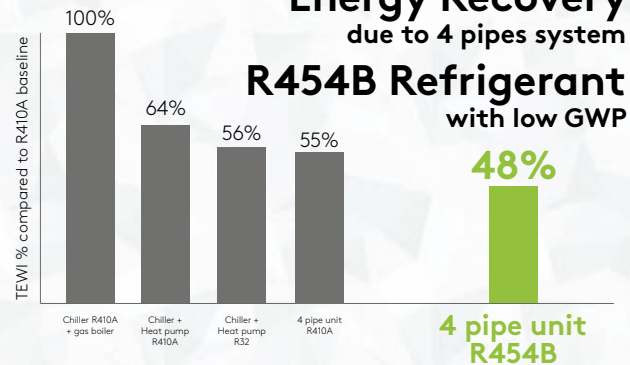
Leakage rate per year
 Service life (years)
 Leftover refrigerant after disposal
 Global Warming Potential

Plant cooling / Heating load
 Heat pump efficiency
 Electricity consumption
 CO₂ emission intensity

Omicron SKY S4 R5 not only reduce carbon Footprint due to astonishing Efficiency at full and partial load but also due to 2 special features of the range:

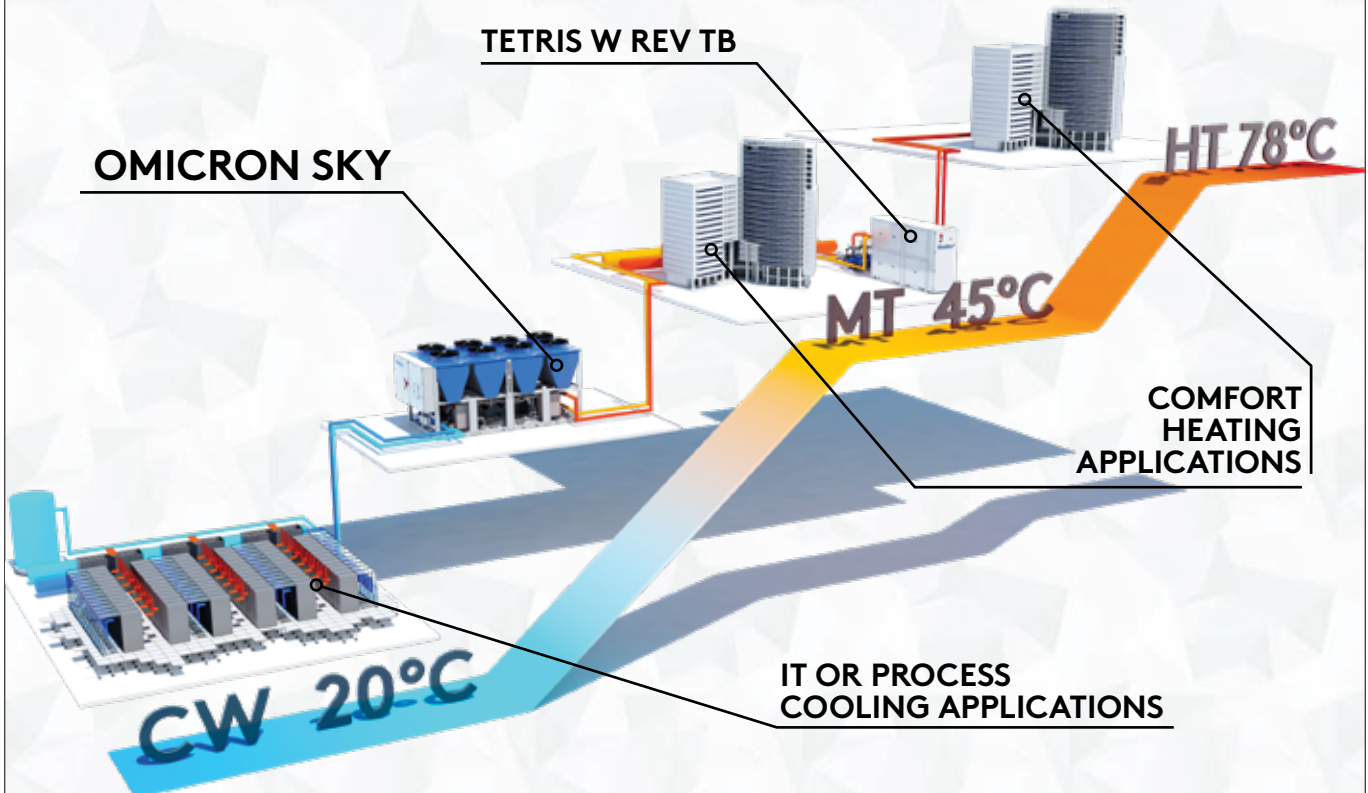
**Energy Recovery
 due to 4 pipes system**

**R454B Refrigerant
 with low GWP**

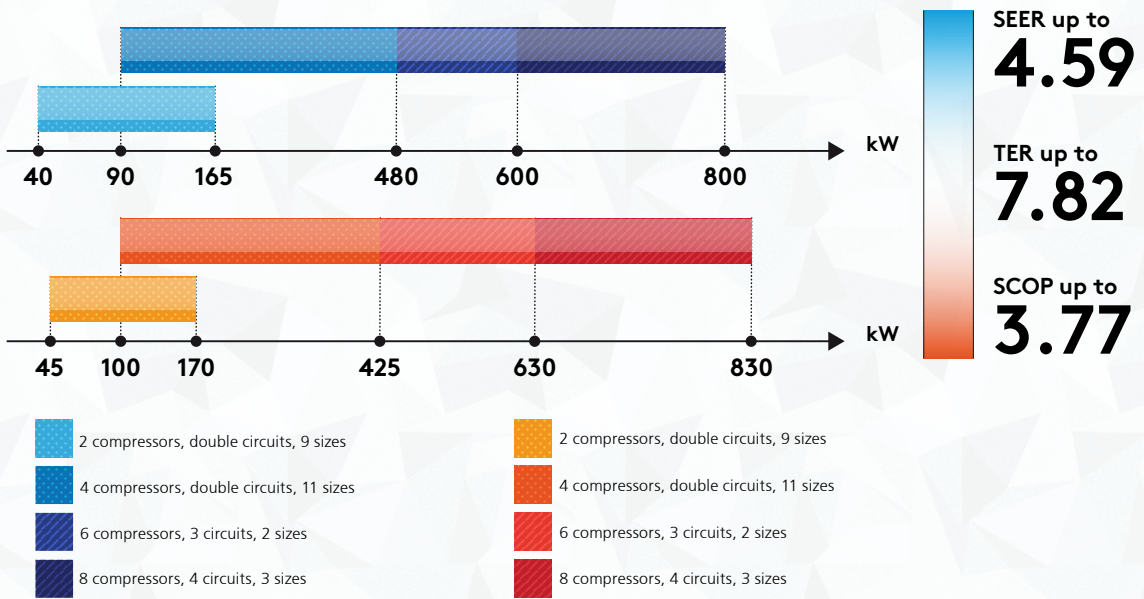


APPLICATIONS

No matter what sort of application, the maximum energy quantity is retrieved through the integrated 4 pipes heat recovery system



WIDE CAPACITY RANGE



WIDER 4 PIPES HIGH EFFICIENCY R454B RANGE OF THE MARKET

Excellent efficiency in all working mode especially cooling.

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.

Combining High Efficiency version, heat recovery guaranteed from 4 pipes units and new R454B refrigerant is possible to reduce Carbon Footprint of the unit and of the whole HVAC system providing really sustainable choice.

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

PERFORMANCE EXTENDED THROUGHOUT THE YEAR

TOTALLY INDEPENDENT CIRCUITS

Management of independent defrost on each circuit for higher supplying stability
 Aeraulic separation provides complete redundancy of the refrigeration circuits



T_{air}
-15°C
 Mode: heating (full load)

T_{air}
 up to **40°C**
 Mode: cooling (full load)

T_{water}
 up to **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

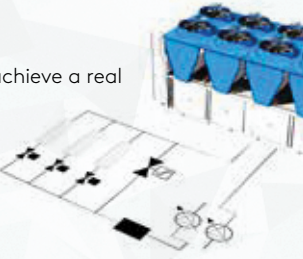


FLOWZER


INVERTER-DRIVEN PUMPS CONTROL MANAGEMENT FOR DIFFERENT SYSTEM LAYOUTS



- CONSTANT FLOW**
 - Simpler site's settings to achieve a real constant flow
- CONSTANT HEAD PRESSURE**
 - The right pressure to the users in any condition
- VARIABLE FLOW**
 - Full control of one unique hydraulic loop
 - Primary/Secondary Loop, the right solution for any layout



UP TO
-53%
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

