



SIGMA SKY R7



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High efficiency water source
chillers and heat pumps

38÷650 kW

WESTERNTM
AIRCONDITIONING
WARMTEPOMPEN

BlueBox

Sigma Sky R7

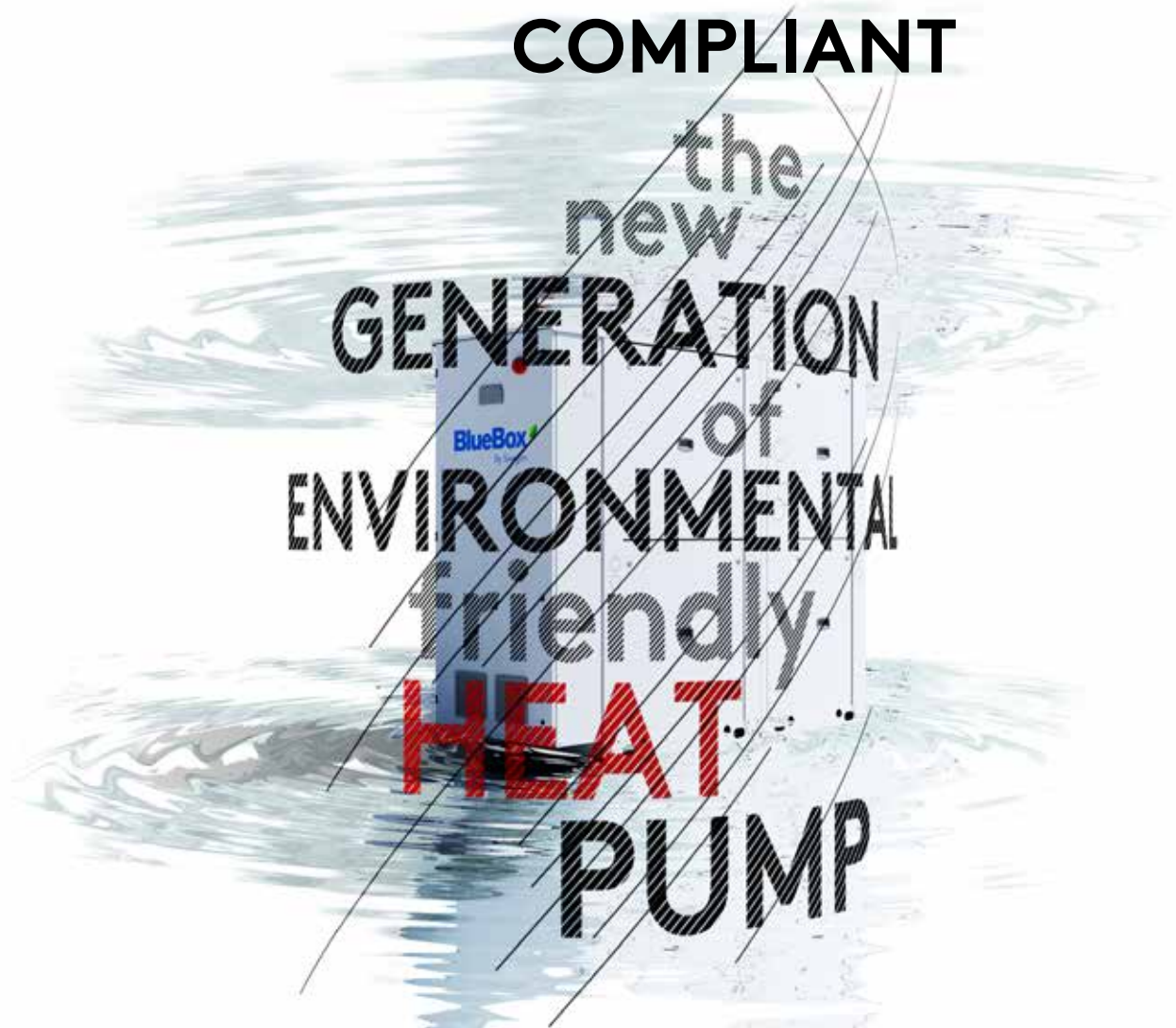
A complete range of

WATER

SOURCE units

TIER 2

COMPLIANT



Single and double circuit inverter or ON/OFF scroll compressors unit with plate heat exchangers:

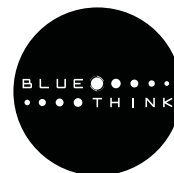
- SKY generation, low environmental impact
- Extended working limits
- New design with reduced footprint
- Hydraulic modules on board available
- Compatible with Bluethink and Flowzer (options)



Eurovent certified



Low GWP below 700



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

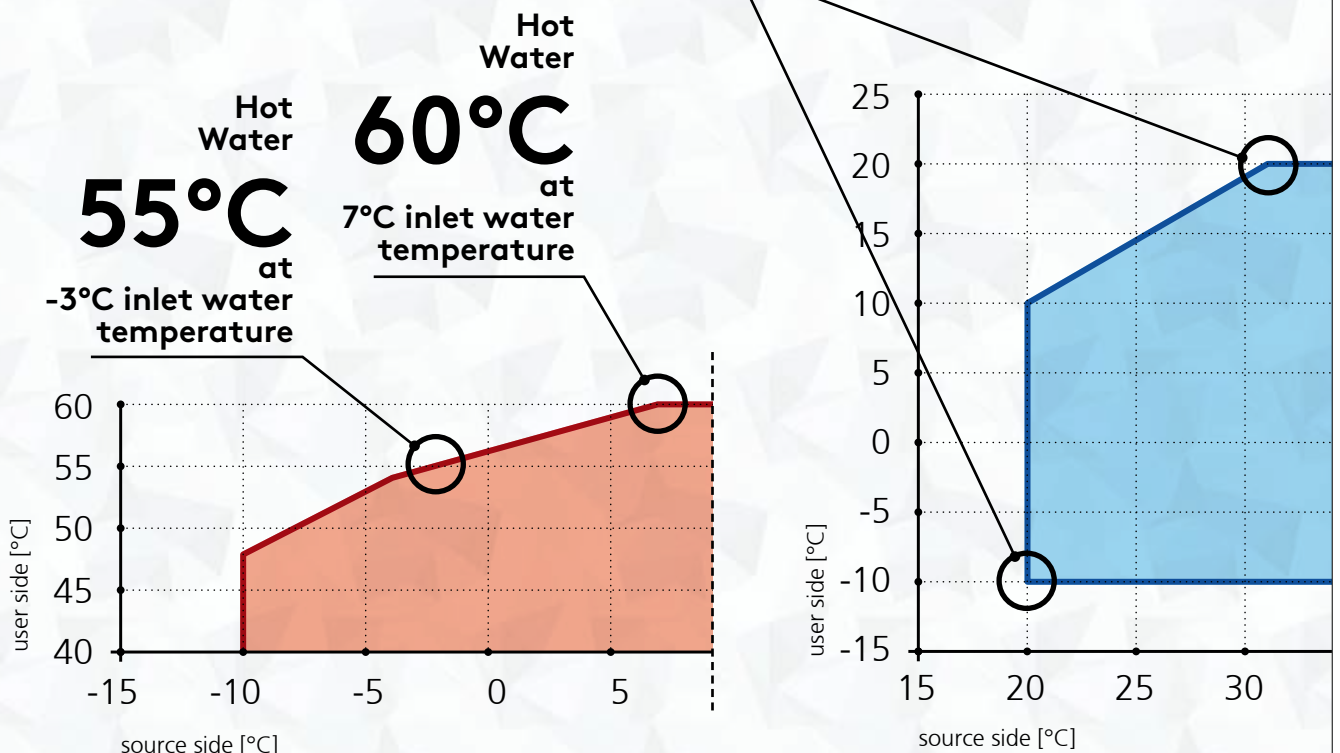
Plant cooling / Heating load
 Heat pump efficiency
 Electricity consumption
 CO₂ emission intensity



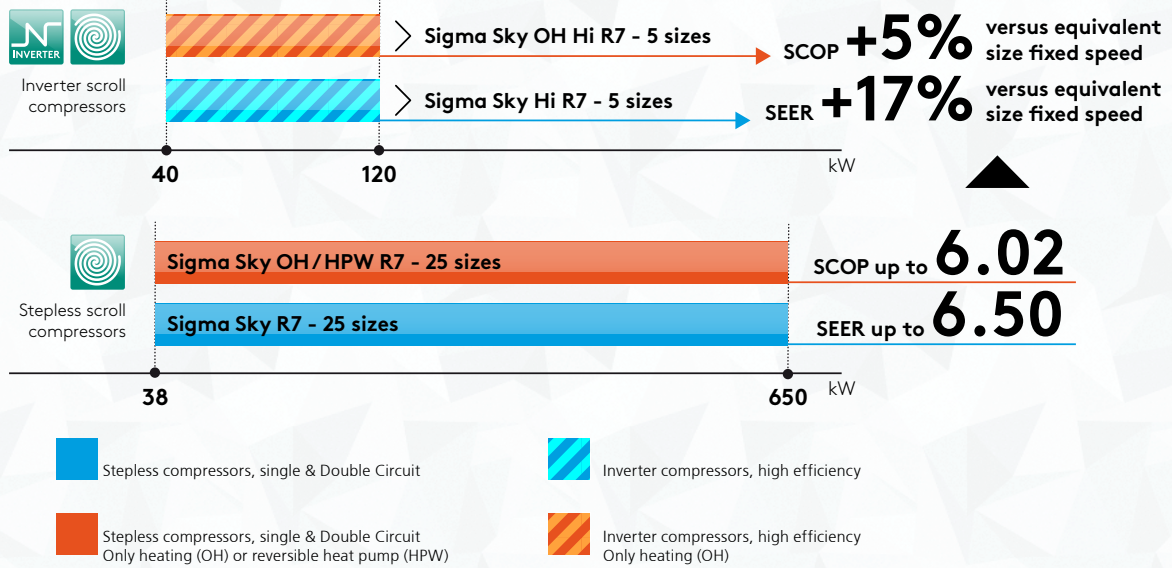
Compared to the top level water to water units on the market, **Sigma Sky R7** reduces the environmental impact thanks to **low GWP refrigerant** and its high efficiency due the use of **inverter compressors**

OPERATING LIMITS

Chilled water production from
-10°C to 20°C



WIDE CAPACITY RANGE



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

EASY INSTALLATION

Sigma Sky R7 **new design** provides a lot of options and pumping configurations to suit every requirements.

This means:

- **Less design time**
- **Quicker and less cost for installation team**
- **Reduced refrigerant charge.**
- **Reduced unit footprint**
- **Less connections for easier installation**

ON BOARD HYDRAULIC MODULE

Sigma Sky R7 can be fitted with different hydraulic modules with a new compact design:


- 1 or 2 reduced pumps (user side only)
- 1 or 2 standard pumps (source or user side)
- 1 or 2 pumps oversized (source or user side)
- Valve for 1 pump & check valve for 2 pumps
- Auxiliary tank available on board



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

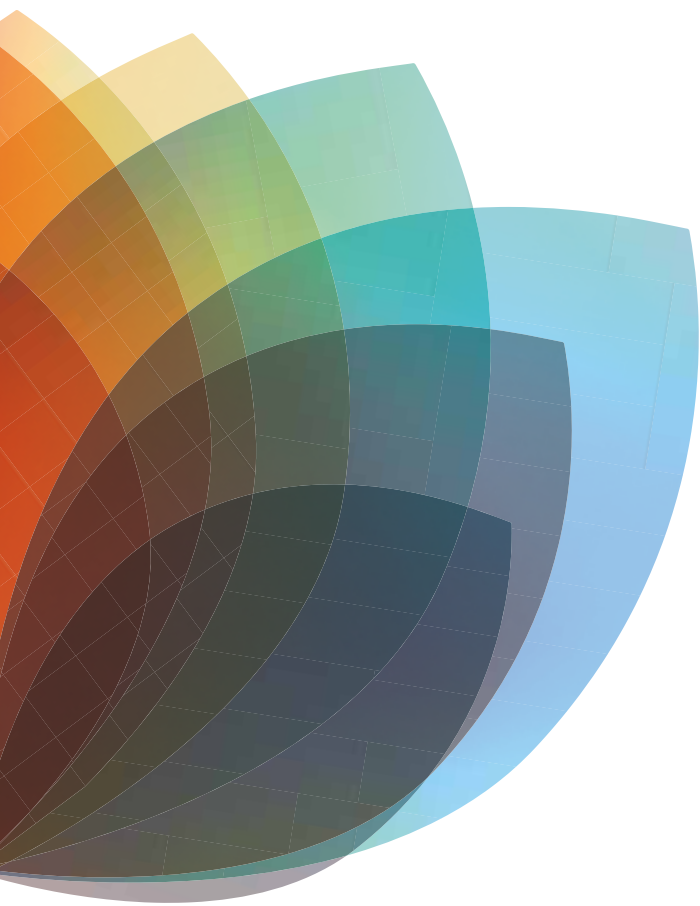
HYDRONIC OPTIMIZER

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



Feel good **inside**



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