



SIGMA SKY R7



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High efficiency water source
chillers and heat pumps

38÷650 kW

BlueBox 
by Swegon

Sigma Sky R7

A complete range of

WATER
SOURCE units
TIER 2
COMPLIANT

the
new
GENERATION
of
ENVIRONMENTAL
friendly
HEAT
PUMP

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**

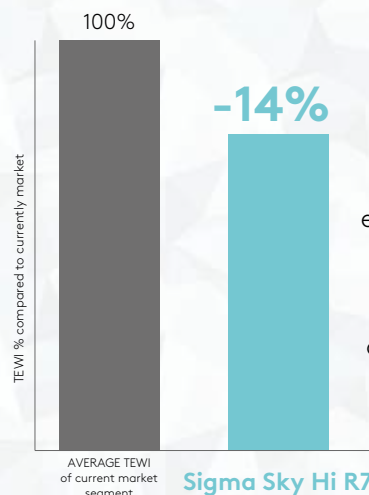
TEWI

TOTAL EQUIVALENT WARMING IMPACT

Direct emissions + Indirect emissions

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

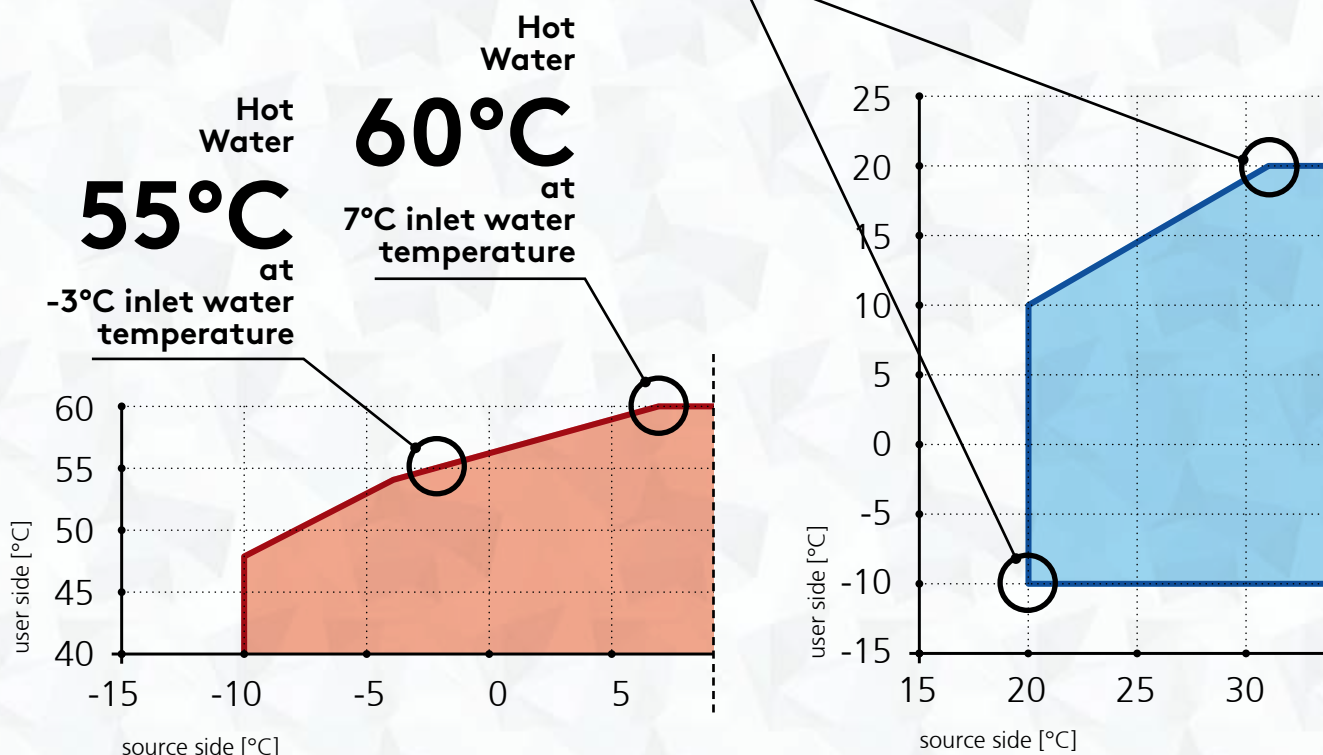
Plant cooling / Heating load
Heat pump efficiency
Electricity consumption
CO₂ emission intensity



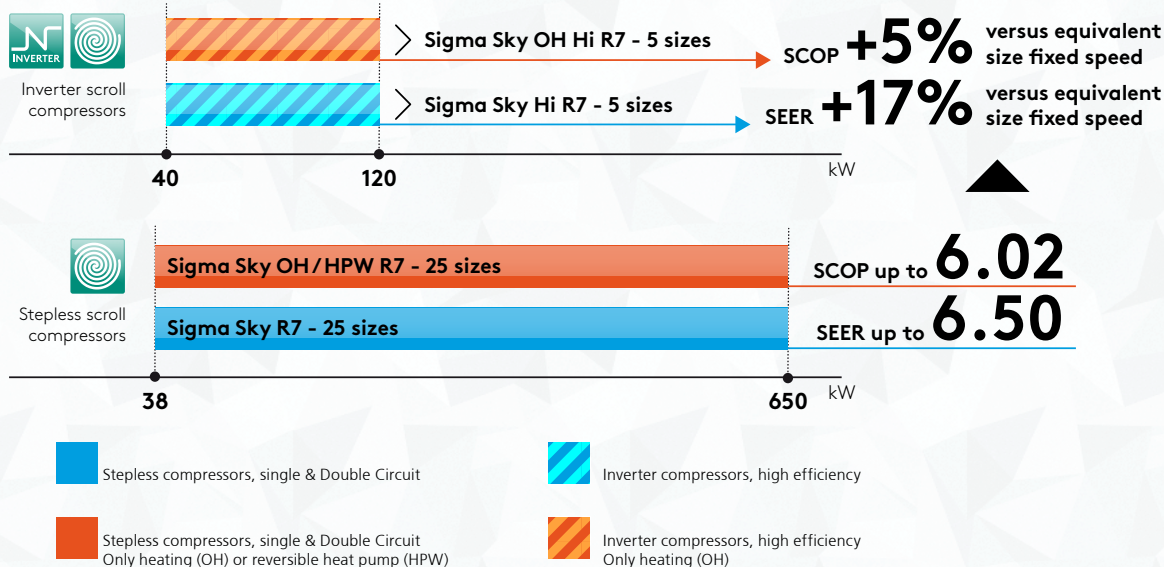
Compared to the top level water to water units on the market, **Sigma Sky R7** reduces the environmental impact thanks to **low GWP refrigerant** and its high efficiency due the use of **inverter compressors**

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**

