ZETA SKY

High efficiency air source chiller and heat pump
30÷240 kW

BlueBox by Swegon

Cooke Industries - Phone: +64 9 579 2185 Email: sales@cookeindustries.co.nz Web: www.cookeindustries.co.nz

ZETA SKY

LET'S COOL THE PLANET

R454B | GWP < 500

GWP < 700 | R32

Lowest GWP available in the market for scroll units

Available also with inverter and EEV technology for more energy saving

Low Charge design

Extended working limits
56°C hot water @ 0°C OAT

DHW full management

Compatible with Bluethink and Flowzer options

General
Air-source reversible HP unit. Single and double circuit.
Scroll compressors unit with plate heat exchangers.

Configurations
HP: Hot Water production up to 58°C
SLN: super low noise versions
LN: low noise versions
DS: Heat recovery by desuperheater

General
Air-source chiller and reversible HP unit. Single and double circuit.
Scroll compressors unit with plate heat exchangers.

Configurations
STD: Cold water supply from -8 up to 20°C
HP: Hot Water supply up to 60°C
DHW: domestic hot water management
SLN: Super Low Noise
LN: low noise
DS: Heat recovery by desuperheater
DC: Total recovery (chiller only)

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CLIMATE CHANGE FIGHT

Ecodesign
ErP Directive

F-gas regulation
81% ton eq. CO2 reduction in 15 years
compare to 2015 baseline

EPBD (2010/31/EU)
Energy performance building directive
Nearly zero energy buildings

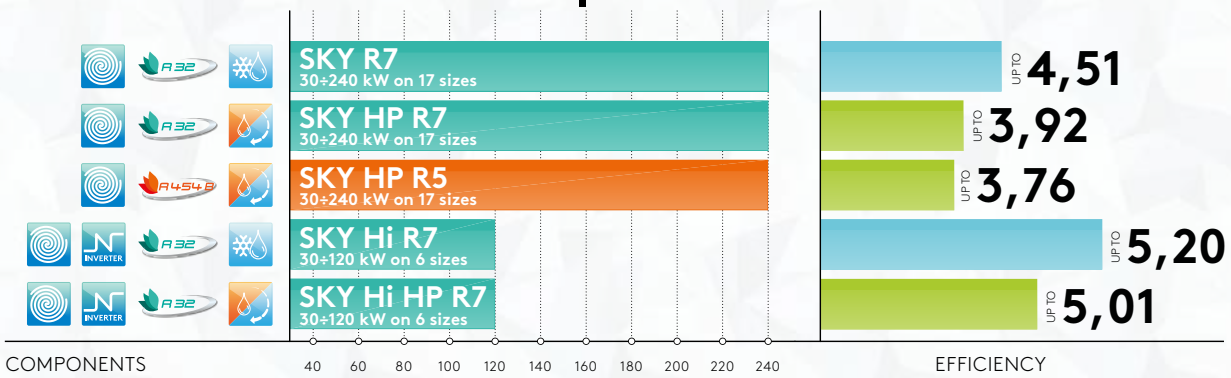
Kigali agreement
Reduce HFC production and
consumption by 80%
in the next 30 years

Carbon tax
Incentives

Global T increase
< 1.5°C

All Blue Box SKY unit generation are designed to fight the climate change

CAPACITY | EFFICIENCY

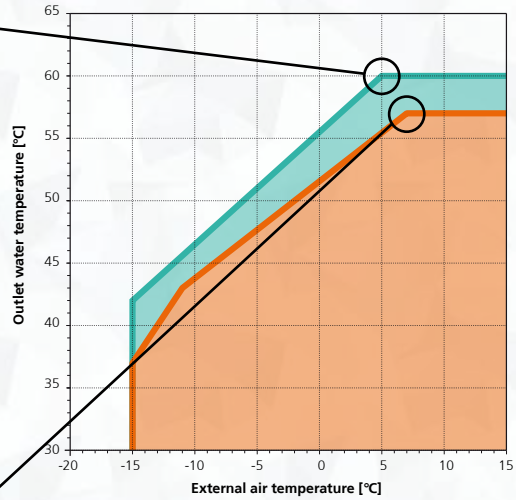


SCROLL COMPRESSORS
DC INVERTER
CHILLER ONLY
REVERSIBLE HEAT PUMP
SEER
SCOP
EN14511 / EN14825

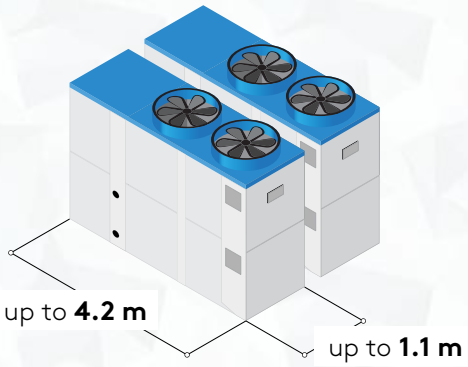
OPERATING LIMITS

ZETA SKY HP R7
up to
60°C
water temperature

ZETA SKY HP R5
up to
57°C
water temperature



COMPACTNESS ▶ AV. 35 kW/m²



Compact

One of the most compact unit in the market in the 100-250 kW range
Ideal for both refurbishment projects as well as new installations
Plenty of room for hydronics circuits, and recovery exchangers

Easy handling

Easy transport by forklift or crane
Reduced transport costs
Units can be paired both in trucks as well as in containers

Easy Maintenance

Full access to refrigerant circuit and compressors vain
Easy single side coil cleaning
All components protected within the frame

EC AXIAL FANS

ELECTRONICALLY COMMUTATED BRUSHLESS MOTOR AS OPTION

STANDARD

15% ENERGY SAVING PER FAN

1.000 €/y* SAVING (*2 UNIT WITH 3 FANS; OPERATING 8700 HOURS / YEAR; 0,10 € / kWh)

OVERSIZE

FURTHER ENERGY SAVING

+ 100 Pa AVAILABLE PRESSURE PER FAN

PRESSURE RECUPERATOR

+ 50 Pa AVAILABLE PRESSURE PER FAN COMPARED TO OVERSIZED FANS

▼

UP TO **3dB(A)** OF UNIT NOISE REDUCTION

Hi VERSION DC INVERTER

SCROLL COMPRESSOR

- Higher efficiency at part load
- Continuous modulation according to the load
- Accurate temperature control and stability
- Minimum water volume

energy saving

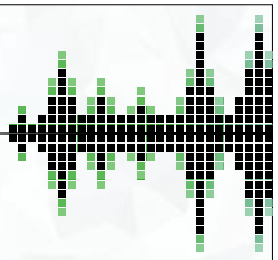
▼

up to

12% per year

(compared with standard scroll compressor)

MULTIPLE LOW NOISE OPTIONS



/LN up to **-2 dB(A)**
sound power level

/SLN up to **-4 dB(A)**
sound power level

HYDRAULIC MODULE

A wide range of options allow to configure the chiller to suit various application. Differentiated levels of pump useful head are available, with or without buffer tank.

DOWNSIZED

▶ av. **1 bars**

STANDARD

▶ av. **1,5 bars**

LOW TEMPERATURE

▶ av. **1,5 bars / 40% gly.**

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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

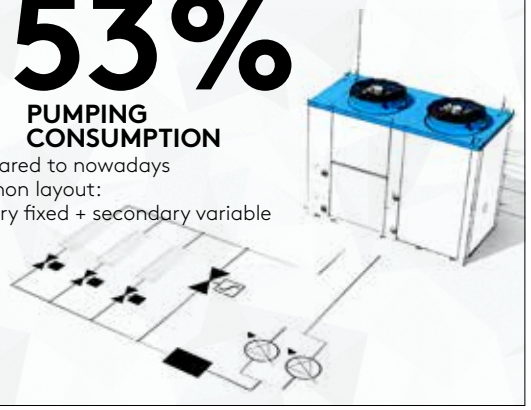
INVERTER-DRIVEN PUMPS CONTROL MANAGEMENT FOR DIFFERENT SYSTEM LAYOUTS

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

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