

OMEGA Sky



OMEGA Sky

High efficiency water source
chillers and heat pumps.

436÷1564 kW

OMEGA Sky ECODESIGN^{ed}

General

High efficiency water-source chillers.
Screw compressors. Shell & tube heat exchangers.

Configurations

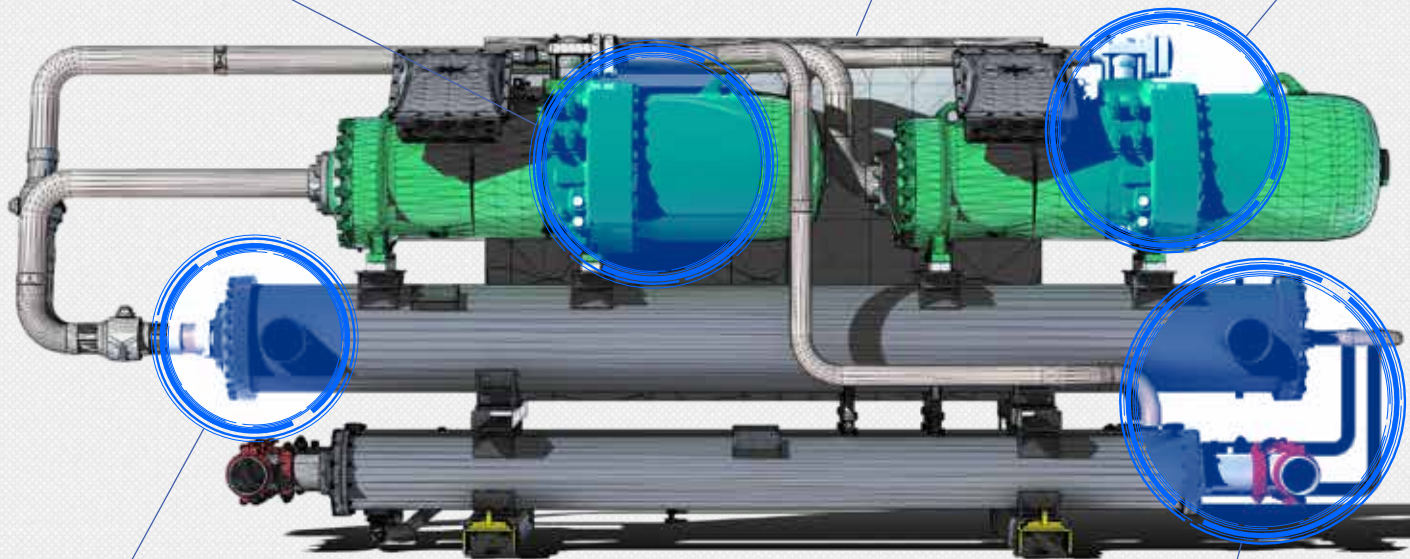
LN: low noise
XLN: super low noise
OH: heating-only heat pump
HPW: reversible heat pump (water side)
DC: total heat recovery
LC: condenser-less execution for split system

Bluethink advanced control

Web server
Blueye supervision
Multilogic function

**Environmentally
friendly refrigerants:
R513A default
& LGW R1234ze**

**Highest performances
on the market segment**



High-efficiency dry evaporator
low charge, low pressure drop

**Plug & Play
unit for easy
indoor installation**

ECODESIGN framework Directive (2009/125/EC)

ENERGY
RELATED
PRODUCTS

SEASONAL
EFFICIENCY

SEER | SEPR | SCOP

- The **ECODESIGN Directive**, with its Regulations, sets new challenging standards for a more efficient use of energy
- For the European market, all chillers and heat pumps must comply with related seasonal efficiency targets
- **SEER SEPR HT - Regulation 2281/2016: chillers and large heat pumps; mandatory since January 1st, 2018**

All OMEGA SKY models comply to tier 1 • SEER (LT, MT) and SEPR HT.

Also heat pump versions are compliant to Ecodesign.

COOLING | HIGH EFFICIENCY AT PART LOAD

Net value according to EN14511
Condition: W30/35 W12/7

up to
5.4



According to Regulation 2016/2281
and norm EN 14825.
SEER / ηsc reference: LT / low
temperature condition, user-side
temperature 12/7°C

up to
6.4

According to Ecodesign
Directive and Regulation
2281/2016

up to
8.0



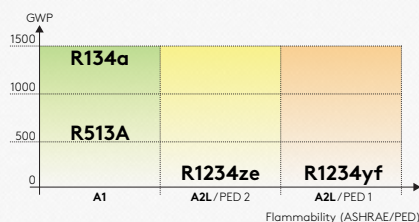
LOW GWP



- Non flammable – category A1
- **Smart GWP 573***
- Not subject to shortage or price hikes
- May be promoted by local incentive schemes
- R134a: option



- Category A2L, classified as PED group 2
- **Lowest GWP < 1***
- Not subject to shortage or price hikes
- Totally exempted by local taxation/bans
- Best future-proof choice



Performances related to all three refrigerants are
certified by Eurovent.

* GWP (AR5) according to IPCC V time horizon 100 years.

ENVIRONMENTALLY FRIENDLY HEATING

2

versions to satisfy different requirements
**HEATING ONLY
& REVERSIBLE**
compressor optimized for heating



**Leaving
water
temperature
up to**

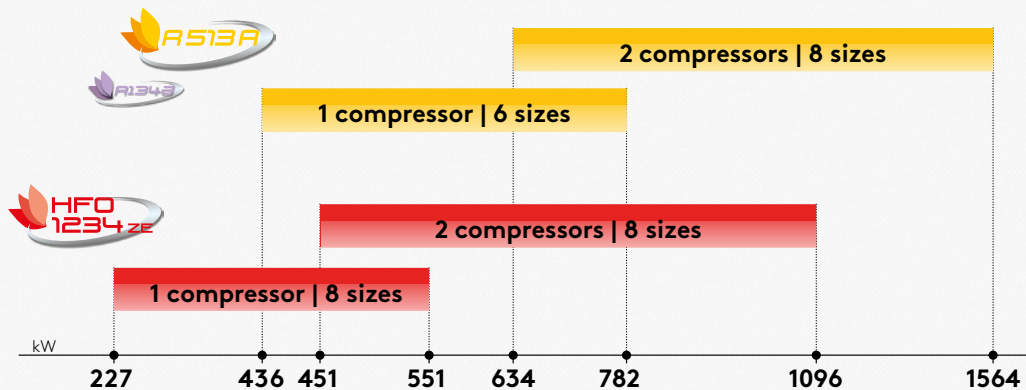
65°C*



**High performance heating
coupled with
LOW GWP refrigerants**

* applies to OMEGA SKY LGW OH.

CAPACITY RANGE



Cooling capacity: net value according to EN14511. Condition: source W30/35, user W12/7

Swegon participates to the Eurovent Certification Programme (LCP-HP): Water source chillers and reversible units, capacity up to 1500 kW

EASY ON SITE HANDLING

- Depth 900 mm for sizes up to 800 kW (single compressor)
- Simple piping
- All connections on one side, with optional water manifold for condensers (sizes .2) or fittings
- Flanged connections (option)
- Ability to manage external pumps (1 or 2; on user-, source-side or also recovery)
- Control of condensation via different options, according to source-side layout, also suitable for external inverter-driven pumps



FREE COOLING APPLICATION

- Fully integrated management of all components by Bluethink
- Boost on yearly energy savings

Water-cooled indoor chillers = unique solution by Blue Box

- Ideal for systems with year-round cooling load, e.g. industrial applications, data centers
- Indoor installation allows to comply with architectural constraints.
- Selection of dry cooler easily matches noise requirements.





BLUE ● ● ● ●
● ● ● ● THINK
control platform

Integrated web server



Unit ON
ON / OFF unit



Mode
unit mode
(heating, cooling)



Unit
visual status of unit
(circuits, compressors..)



Alarms
alarm history



Set points
operating set point



Graphs
real time diagrams
of main variables
(temperatures, pressure..)



Input/Output
status of inputs / outputs
(digital and analogic)



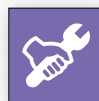
Multilogic
status of multiple
units



Tools
visual status of unit
(circuits, compressors..)



Logs
download and
analyze unit data history



Maintenance
service advanced log in



Sign Out

M Multilogic function

Management of multiple units of a system / hydraulic loop.

- > Specific operational logics to satisfy different installation requirements
- > Maximized energy efficiency
- > Fully embedded in the control resources and factory-preset
- > Fast commissioning. Simple LAN connection between units. No external devices required.



Blueye

Remote supervision via web by Blue Box.

It offers, for one or more units / systems:

- > operation status monitoring
- > access to unit's settings and parameters
- > data recording via cloud, with options about data displaying, graphs, etc.
- > differentiated access profiles and privileges to ensure a safe and efficient interaction
- > also the status of system's additional components can be monitored, e.g. pumps, energy meters, valves



Connectivity

Default available

- > Modbus over TCP/IP, Modbus RTU (RS-485)

Options

- > LonWorks Gateway
- > BACnet
- > SNMP Gateway
- > Hot Spot Wi-Fi

Feel good **inside**

