



Omega Sky



High efficiency water cooled
chillers and heat pumps.
436 ÷ 1564 kW





OMEGA SKY ECODESIGN *ed*

General

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

Configurations

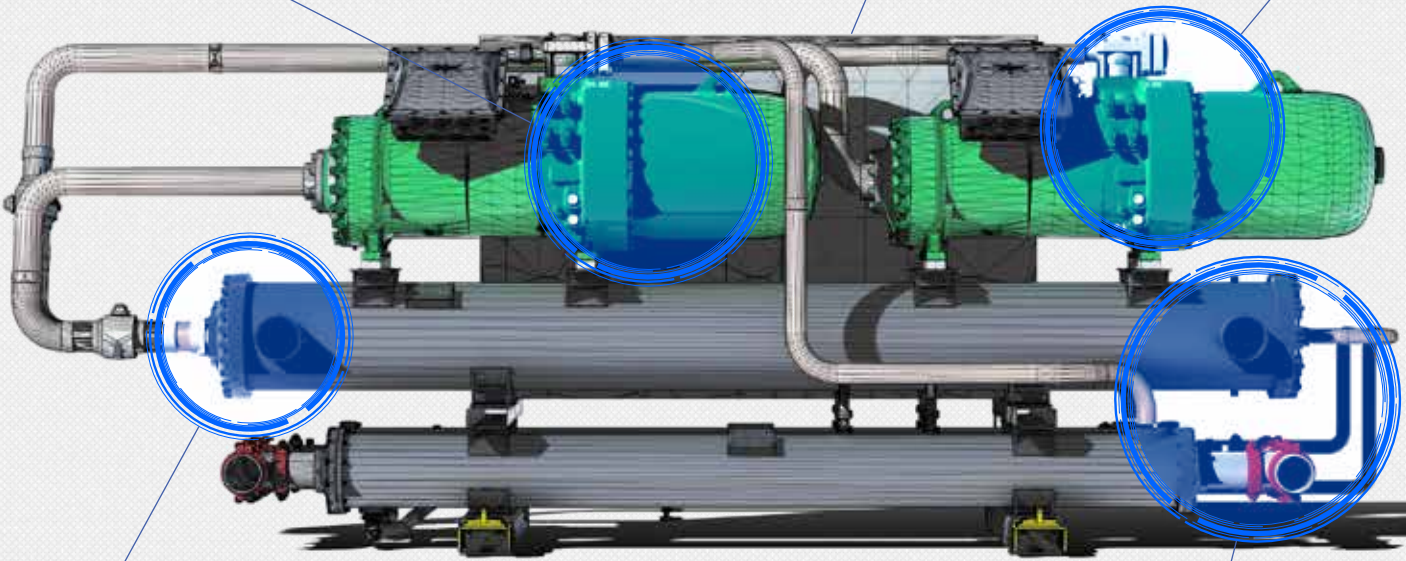
LN: low noise
XLN: super low noise
OH: heating-only heat pump
HPW: reversible heat pump (water side)
DC: total heat recovery
LC: condenser-less execution for split system

Bluethink advanced control

Web server
Blueeye 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)

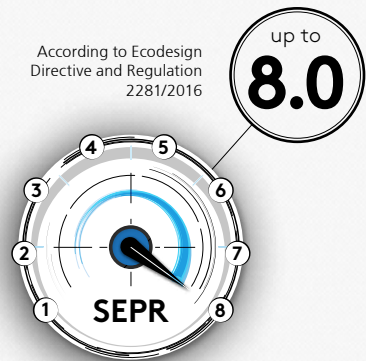
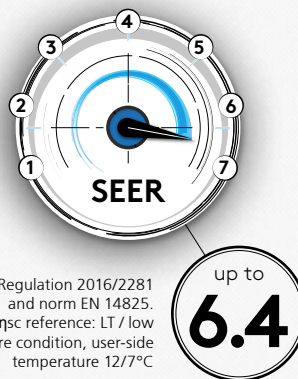
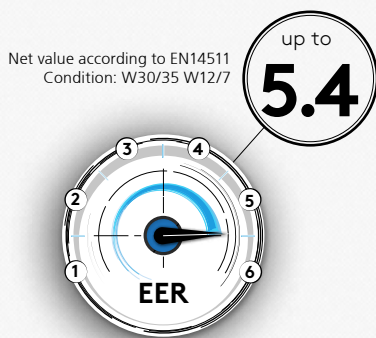
ENERGY RELATED PRODUCTS > SEASONAL EFFICIENCY > SEER | SEPR | SCOP

- 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



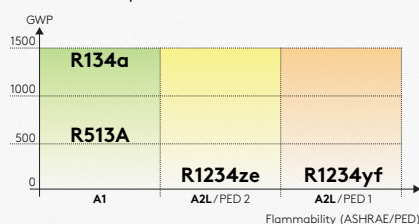
LOW GWP



- 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*

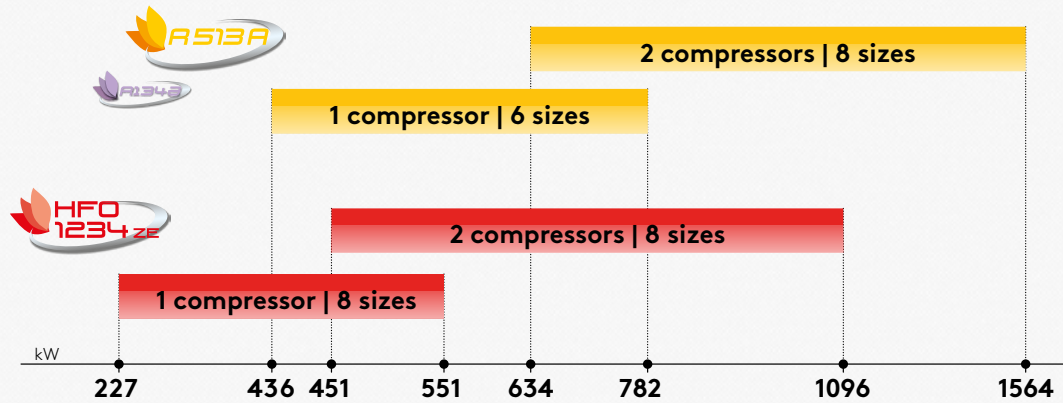


High performance heating coupled with

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

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



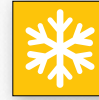
Mode
unit mode
(heating, cooling)



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 analog)



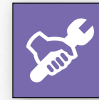
Multilogic
status of multiple
units



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

Blue Box applied product range

find out the complete product range on our web site and catalogues



Zeta Rev > 40÷240 kW

Chillers and reversible units. Extensive range, versatile applications.



Zeta Rev HP XT > 40÷200 kW

Reversible heat pumps. Extreme heating envelope. Smart configuration options.



Tetris 2 > 84÷913 kW

Modular chillers and reversible units for large commercial systems. Wide range; multiple combinations of high-efficiency, low-noise versions.



Tetris W Rev > 32÷615 kW

Water-source chillers, with heating and reversible versions. Extensive range, versatile applications.



Omega Sky Xi > 260÷970 kW

High efficiency water source chillers and heat pumps. Inverter-driven screw compressor.



Kappa Rev > 296÷1983 kW

Modular air source chillers and reversible units.



Kappa Sky > 260÷1360 kW

Modular air source chillers for large systems. Inverter-driven screw compressors.



Omicron Rev S4 > 100÷860 kW

Modular multifunctional units for large 4-pipe systems. Smart configuration options.

