

EPSILON Sky R7



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High efficiency reversible heat pumps,
chillers and condensing units

6÷45 kW



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by Swegon

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EPSILON Sky

5 VERSIONS FOR EVERY APPLICATIONS



INDOOR ENVIRONMENTAL QUALITY
coupled with AHU SWEGON GOLD

▼
Reversible heat pump / condensing unit with inverter compressor



RESIDENTIAL HEATING, COOLING AND DHW PRODUCTION

▼
Reversible heat pump with inverter / fixed speed compressor



LIGHT COMMERCIAL HEATING AND COOLING

▼
Reversible heat pump with inverter / fixed speed compressor



IT COOLING
coupled with COOLBLADE BTD Sky and DATATECH BTD Sky

▼
Condensing unit with inverter compressor



PROCESS AND TECHNOLOGICAL APPLICATIONS COOLING

▼
Chiller with inverter compressor



CLIMATE CHANGE FIGHT

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

Ecodesign ErP Directive

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

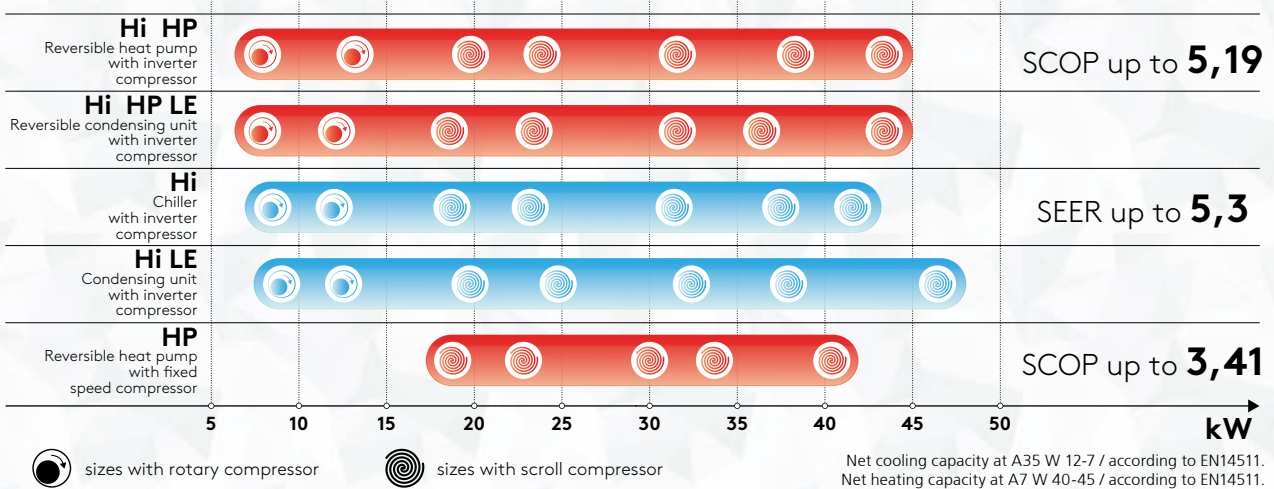
Carbon tax Incentives



Global T increase < 1.5°C

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

CAPACITY/EFFICIENCY



OPERATING LIMITS

▼ Leaving water temperature up to

60°C

at -2°C outside air temperature

space heating and domestic hot water production



comfort cooling and process applications

Chilled water production ▼

-10 ÷ 20°C



DETAILS making the DESIGN

HEAT PUMP OPTIMIZATION

All heat pump versions are equipped with coils with hydrophilic coating and use a special control logic for electronic expansion valve to reduce and shorten defrosting cycles.

EFFICIENCY

FULL INVERTER VERSION AVAILABLE

- Compressors driven by inverter (Hi version)
- EC Fans (Optional)
- Inverter driven pump (Optional)

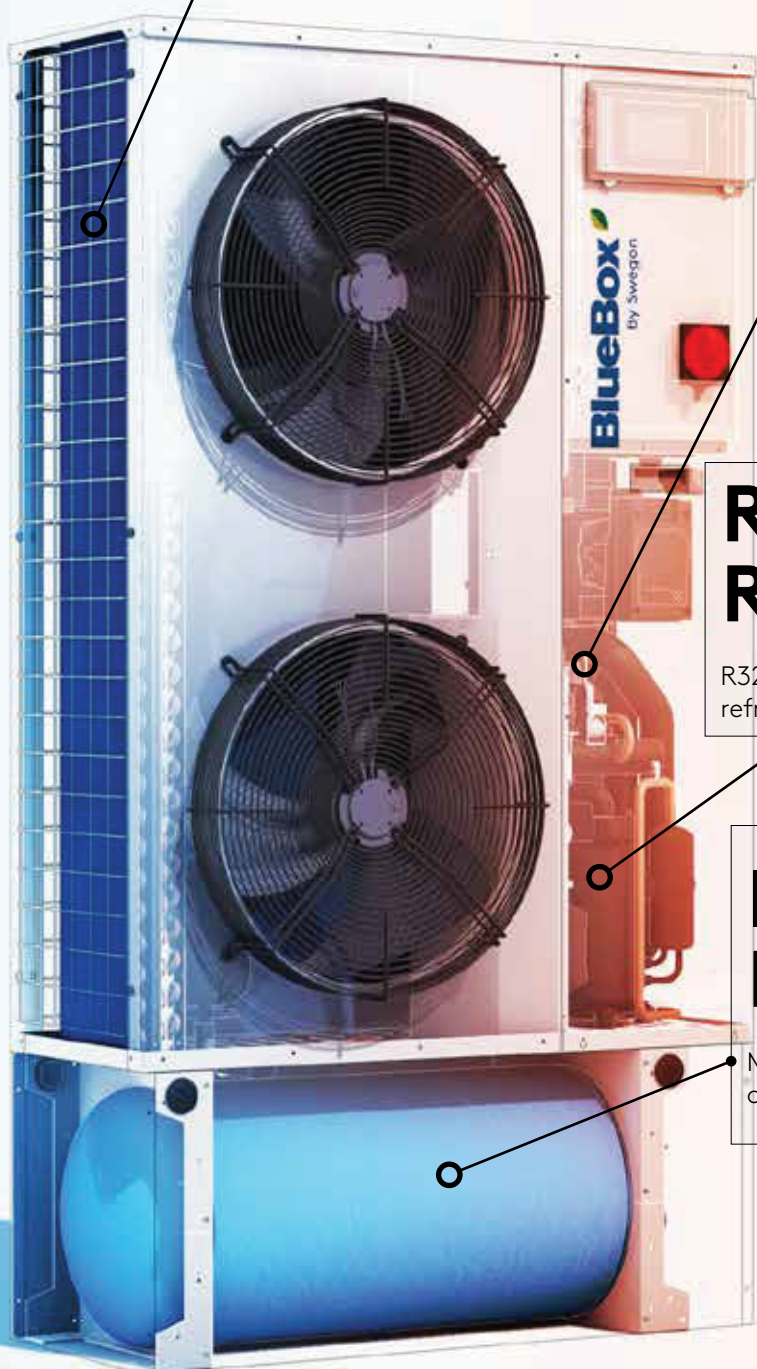
In addition to the advantage of higher efficiency, the use of inverter allows the unit to adapt its capacity to the heating/cooling load maximizing energy savings.

R32 REFRIGERANT

R32 charge is reduced at minimum thanks to refrigerant circuit design optimization.

INSTALLATION FLEXIBILITY

Multiple hydraulic kits (with standard or oversized pump and with or without tank)



BLUE ● ● ● ● ● ● ● ● THINK

Monitoring, performance reports, full management.

Blue Box control platform allows a total access to the machine from any device, in complete autonomy.

Touch interface for unit configuration and monitoring



MULTILOGIC

Ready for cascade system, no need of external hardware

SMART GRID

Ready to be connected to smart grid system

web server



Easy access, management, data recording from web portal



FLOWZER

Inverter-driven pumps control management for different system layouts

SYSTEM INTEGRATION

SMART Link+ FOR WATER COILS

Modulation of water temperature according to real time load to reduce energy consumption up to 15%

SMART Link DX FOR REFRIGERANT COILS

Optimization of system working mode to keep safe and efficient conditions while guaranteeing good indoor climate

GOLD air handling unit



EPSILON Sky heat pump/condensing unit



