



OMEGA SKY Xi

High efficiency water source chillers and heat pumps.
Inverter-driven screw compressor.
250÷940 kW



OMEGASKY Xi LET'S COOL THE PLANET

Environmentally friendly refrigerants: R513A default & LGW R1234ze

Cooling capacity range extended

on the low

end

Dedicated combination of external inverter and variable Vireserved screw compressor

Hybrid
Falling Film
evaporator:
low refrigerant
charge

BLUE BOX PROPRIETARY CONTROL STRATEGY

Bluethink advanced control Web server Blueye supervision Multilogic function Flowzer

BlueBox*



High efficiency water source chillers and heat pumps. Inverter-driven screw compressor. High performance evaporator with low refrigerant charge.

Configurations

base model: cooling only HPW: heat pump reversible on water side OH: heating only

LGW: R1234ze refrigerant unit

/XLN: super low noise unit /LN: low noise unit

/DC: with total recovery









ECODESIGN framework Directive (2009/125/EC)



SEASONAL 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 Xi models comply to tier 2 • SEER (LT, MT) and SEPR HT.

Also heat pump versions are compliant to Ecodesign.

2021TIER2 ECODESIGN

CAPACITY RANGE | EFFICIENCY Xi - 250÷940 kW on 10 sizes Xi LGW - 180÷640 kW on 10 sizes -kW type/components/refrigerant 200 400 600 800 1000 Net cooling capacity (R513A) EN14511 W35/30 W12/7

LOW GWP R513A) Default for full line-up Smart GWP 573 (*) Not subject to shortage or price hikes • May be promoted by local incentive schemes • R134a remains as option into pricelist Lowest GWP < 1 (*) • Not subject to shortage or price hikes • Totally exempted by local taxation/bans Best future-proof choice 1500

R1234ze

Performances related to all three refrigerants are certified by (*) GWP (AR5) according to IPCC V time horizon 100 years.

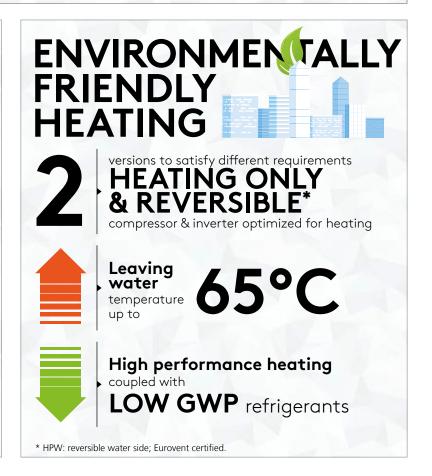
R1234yf

Flammability (ASHRAE/PED)

R134a

R513A

1000



HIGH EFFICIENCY AT PART

Benefit of variable Vi, part-load efficiency values (SEER)

LOAD

Combined benefit of:

- INVERTER COMPRESSOR ▼ high efficiency at part load
- VARIABLE Vi FEATURE ▼

Vi: suction volume / discharge volume ratio Variable: automatically adapted based on operating conditions



EXTRA HIGH EFFICIENCY

ESPECIALLY AT LOW CONDENSING TEMPERATURE +23% +24% +7,5% 100% Partialization %

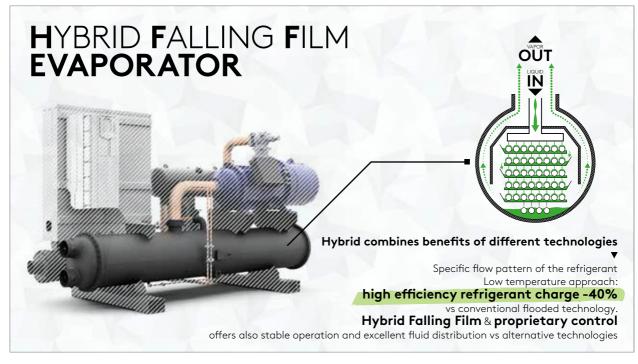
High efficiency chiller

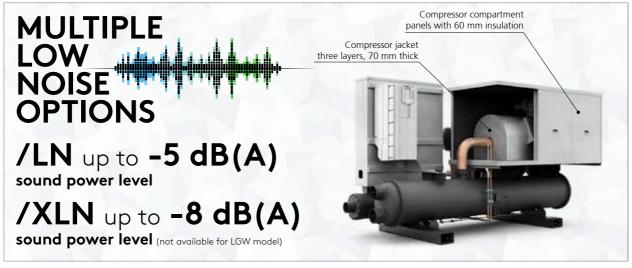
Average inverter flooded chiller .

OMEGA SKY Xi

Partialization % associated to different conditions as per SEER calculation (reference: Regulation 2016/2281).

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







Monitoring, performance reports, full management.

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









Feel good **inside**

