



TITAN SKY Hi R0 FC

Full inverter free cooling chiller with natural refrigerant **35÷150** kW





NATURAL FREE COOLING CHILLER

Inverter compressor Natural refrigerant (R290) Extended Free cooling coil surface

Unbeatable use of Primary energy thanks to Inverter technology and Free Cooling function • No Ozone Layer impact & Nearly Zero Global warming potential • Optimized Low Refrigerant Charge design • Meets the highest seasonal efficiency standard (European Ecodesign Erp) • Pure water on user side (NG glycol free version)



CHILLER 35÷150 kW • Min Cold water: -15°C • Max Tair: 52°C • SEER: up to 4.6

FREE COOLING

Full Free Cooling at 5K from delivery temperature



Natural refrigerant



Inverter technology



Advanced control

CLIMATE EUROPEAN CLIMATE STRATEGY CHANGE IS GOING TO BE UPDATED AND FIGHT REINFORCED

TARGET

Reduction of **55%** Greenhouse Gas emission by **2030**

Increased **renewable energy** (above **32%**) by **2030**

Net-zero Greenhouse Gas Emission by **2050**



HOW?

F-gas regulation Regulation

Renewable Energy Directive

European Performance of Buildings Directive (**EPBD**)

Ecodesign **ERP** Directive

Keep temperature increase below 1.5°C



SUSTAINABLE CHOICE

- Nearly zero Global Warming Potential (GWP=3)
- Natural fluid
- Natural non toxic refrigerant
- No Ozone Layer impact
- -40% gas charge compare to R410A

RELIABLE CHOICE

- Long run reciprocating compressor with inverter technology
- Implementation of the highest safety standard

SMART CHOICE

- No carbon tax
- Pushed by incentivation schemes
- Future-proof natural solution. On going HFC phase-out



FREE COOLING

A STEP FORWARD SUSTAINABILITY

MODULAR COILS DESIGN

Condensing and free cooling coils are completely independent:

- Each coil is designed independently
- Low air pressure drops, low power absorbed by fan
- Optimized Condensing and Free cooling control
- Easy coils maintenance



GLYCOL FREE VERSION

Allows to separate freecooling circuit, with glycol, from user side circuit:

- suitable for plant where glycol mixtures are not allowed
- safe operation e.g. in case of leakages
- cost saving: circuit's filling and safety arrangements



Becor

Become a climate neutral economy

CAPACITY RANGE												
*	TITAN SKY Hi R0 FC SINGLE CIRCUI 35÷105 kW on 7 sizes					TITAN SKY HI R0 FC DOUBLE CIRCUIT						
kW 30	40	50	60	70	80	90	100	110	120	130	140	150
EN14511 / E	Chiller with reciprocating full inverter compressors optimized for R290 EN14825				SEER up to 4.6 SEPR up to 5.9							







Monitoring, performance reports, full management. Blue Box control platform allows a total access to the machine from any device, in complete autonomy.







CWDS

CHILLED **W**ATER **D**YNAMIC **S**ETPOINT System approach with the highest level optimization

Link freecooling chiller operation to the real IT load requirements

No point producing coldest water and then bypass it, if the load is not 100%

Energy saving opportunities

Increased water temperatures means higher evaporation in Chiller Mode, more Free Cooling, lower operating cost



Feel good **inside**



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