

Transcritical CO2 condensing units for low temperature applications with a capacity range of 30kW - 500kW

Solid frame construction, painted with epoxy powders. The principle of operation of the standard version is based on a gravity-flooded evaporator, which allows for better temperature control and lower energy consumption. Use of a natural refrigerant such as CO2 (R744) with zero OPD, GWP = 1. Reversible version, with dedicated logic to optimize COP based on the required water temperature. Highly efficient coalescing oil separator with an inspection flange enabling periodic filter replacement.



OPTIONS:

- Heat recovery (single- or double-wall exchanger)
- Pump module for heat recovery
- Evaporator module
- Factory tanks up to 800 liters capacity
- Emergency cooling unit

TECHNICAL DATA - TRANSCRITICAL CO2 CONDENSING UNITS

FEATURES	BENEFITS
Transcritical and/or subcritical design	A safe factor for the environment - CO2 is already in the atmosphere, it is non-toxic and non-flammable
High pressure safety controls	Significantly higher volumetric cooling capacities
Heat recovery module options	Leaks will not damage the products
No engine room	High performance even in large systems

OUR DEVICES FALL WITHIN THE SCOPE OF ECO-DESIGN IMPLEMENTED IN ACCORDANCE WITH REGULATION NO. 2015/1095

Model	Cooling capacity at Te=-32°C	Cooling capacity at Te=-43°C
FRIZ-KS050	50	30
FRIZ-KS100	100	60
FRIZ-KS160	160	95
FRIZ-KS250	250	145
FRIZ-KS300	300	195
FRIZ-KS400	400	260
FRIZ-KS500	500	330

* NOMINAL CAPACITY CALCULATED AT A CONDENSING TEMPERATURE OF +45°C