

REMOTE GAS COOLERS FOR CO₂ TRANSCRITICAL APPLICATION



SUPERMERCATO
SUPERMARKET



CELLE
FRIGORIFERE
COLD
ROOMS



MURALI E
VETRINE
WALL AND
DISPLAY CABINETS



BANCHI
COUNTERS

GREEN SOLUTIONS



REFRIGERANTE
NATURALE
NATURAL
REFRIGERANT



RISPARMIO
ENERGETICO
ENERGY
SAVING



BASSA
RUMOROSITÀ
LOW
NOISE



EASY
FIX
EASY
FIX



ANTIPIOGGIA
WEATHER
PROOF

GENERAL FEATURES

The gas coolers made by Rivacold have been designed to satisfy all transcritical CO₂ applications in commercial and industrial refrigeration sectors. The entire range are dedicated for outdoor installation and to be easily fitted remotely to the range of transcritical CO₂ multi-compressor packs and integrated systems made by Rivacold. The installation of the same model with horizontal or vertical air flow (using the support legs) makes their installation easy and adaptable for every needs. The gas coolers are divided into 4 different ranges, depending on the diameter and number of fan motors: 500 mm (1-4), 630 mm (1-4), 800 mm (2-8) 1000 mm (6)

HEAT EXCHANGERS

The high-efficiency heat exchangers of the entire range are manufactured with aluminium fins with "PYRAMIDAL" profile. This particular structure of the fin allows maximizing the heat exchange surface and thus optimizing the power supplied according to the surface itself; moreover, with the same power it is possible to reduce the airflow and therefore, the noise generated by the machine itself. The geometry used is 25 x 21.65 and 2.1 mm fin pitch. The structure of the internal battery and of its sides guarantees robustness of the entire assembly and protection of pipes during handling, installation and commissioning. The copper tube is type K65 and allows working with operating pressures up to 120 bar. All batteries are subjected to testing with nitrogen at a minimum pressure of nitrogen of 172 bars and charged under a minimum nitrogen pressure for a shipment in total safety.

CASING

The casing is made of galvanized steel with powder coating (grey RAL 7035) in order to guarantee a high resistance to corrosion. The design features of the structure as a whole ensure robustness and endurance for long lasting outdoor installations. All components are enclosed and protected by the casing inside the structure; every single fan is separated individually by splitters that prevent the backflow of air.




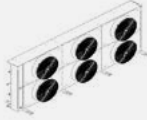
FAN MOTORS

The high-efficiency fan motors feature excellent performance in terms of low noise and low power consumption. All fans are EC electronic type. The fan motors used have the following characteristics: external rotor, power supply 200-277/1/50-60Hz and 380-480/3/50-60Hz according to the model; protection rating IP 54; operating temperature from -20°C to +60°C; epoxy-coated steel grid; the fan motors are supplied non-wired.

OPTIONAL

Disconnecting switch on each fan (service switch), disconnect switch wiring, fan-motor wiring to the junction box; vinyl coated fins coils (pre-coated), supporting legs (vertical airflow version); supporting legs with increased height (upon customers request)

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RANGE	CAPACITY						FANS	
	25 kW	50 kW	100 kW	200 kW	400 kW	800 kW		
RRCX 500	16.6 - 118.8 kW							1 - 4
RRCX 630	24.3 - 236.9 kW							1 - 4
RRCX 800	75.7 - 515 kW							2 - 8
RRCX 1000	471.3 - 649.8 kW							6

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