

## REMOTE GAS COOLERS FOR CO<sub>2</sub> 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 CO<sub>2</sub> 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 CO<sub>2</sub> 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 130bar. All batteries are subjected to testing with nitrogen at a minimum pressure of nitrogen of 186 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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SERIE RANGE	POTENZA / CAPACITY						VENTOLE FANS
	25 kW	50 kW	100 kW	200 kW	400 kW	800 kW	
RRCX 500	22.2 - 135.1 kW						1 - 4
RRCX 630	32.7 - 269.5 kW						1 - 4
RRCX 800	101.3 - 581.6 kW						2 - 8
RRCX 1000	377.2 - 733.9 kW						6

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