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Marine Refrigeration Solutions

Static Air cooler elements

Static air cooler elements are mostly installed in the refrigerated holds of fishing vessels. They are very often connected to a Ammonia refrigeration system and sometimes to a CO₂ system.

The dimensions of the static air cooler elements can be according our standards or client requirements. In general, tailor made solutions are required for the refrigerated holds of fishing vessels.



Good quality for a competitive price

AIR COOLERS (GALVANIZED)

The cooler as shown in the picture below is a so called dry cooler for cooling of compressor oil. The cooler is equipped with explosion proof fans and motors and is designed for an ambient temperature of 45 °C. The design is according ASME and the witness test was carried out by LRS.

We delivered;

- Dry coolers;
- CO₂ and NH₃ air coolers.
- Static air cooler elements (Finned Coils).



We deliver galvanized coolers with flat fins and spiral wound fins. The galvanizing process (Hot dipped) guarantees a lasting contact between the fin and the pipe, as well as a very good corrosion resistance. The distance between the spiral wounded fins can be varied according the clients requirements or to what is advisable for the application. Usually a fin distance of 6 to 8 mm is applied for the dry cooling application with an increasing distance to 18 mm in case of low temperature applications.

Technical information

General:		Remarks
Supplied to;	Marine and shore based installations	
Dimensions	To customers requirements	
Applications :		
Marine	Fish holds, Reefer vessels	
Shore	Blast freezers, frozen storages	
Refrigeration data:		
Refrigerants	Ammonia, R22, CO ₂ and others on request	
Coolants	Brine, Glycol, etc.	
Evaporating temperatures	From -50 °C and higher	
Design Pressure	25 Bar (Ammonia, R22 and R507)	50 Bar (CO ₂)
Execution:		
Pipes	25 x 2 mm (Standard)	Others on request
Fin	25 x 0,6 mm	Others on request
Fin distances	6 to 18 mm	Others on request
Cooler surface per running meter of pipe	Fin distance; Surface (m² / m) 6 mm ; 2 8 mm ; 1,55 10 mm ; 1,26 12 mm ; 1,06 14 mm ; 0,92 16 mm ; 0,81 18 mm ; 0,73	Fin distance; Surface (m² / m) 7 mm ; 1,76 9 mm ; 1,38 11 mm ; 1,15 13 mm ; 0,98 15 mm ; 0,86 17 mm ; 0,77
Standard static cooling coils	Type; Surface (m²) EV; 8 x 2400-15 ; 16,5 EV; 10 x 2400-15 ; 20,6 EV; 12 x 2400-15 ; 24,8 EV; 8 x 3600-15 ; 24,8 EV; 10 x 3600-15 ; 31,0 EV; 12 x 3600-15 ; 37,2 EV; 8 x 4800-15 ; 33,0 EV; 10 x 4800-15 ; 41,3 EV; 12 x 4800-15 ; 49,5	Type ; Surface (m²) EV; 8 x 2400-18 ; 14,0 EV; 10 x 2400-18 ; 17,5 EV; 12 x 2400-18 ; 21,0 EV; 8 x 3600-18 ; 21,0 EV; 10 x 3600-18 ; 26,3 EV; 12 x 3600-18 ; 31,5 EV; 8 x 4800-18 ; 28,0 EV; 10 x 4800-18 ; 35,0 EV; 12 x 4800-18 ; 42,0
Supports	Angle bars with slotted holes	
Corrosion protection (Outside)	Completely hot dipped galvanized	
Options	Stainless steel pipes	
Design & approval:		
All types	CE-PED, ASME or any ships classification society	