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Marine Refrigeration Supplies

Unit assembly

MAREFSUP can do a lot more than just delivery of individual Heat Exchangers, pressure vessels and its belonging components. MAREFSUP BV has the expertise and the means to deliver complete assembled units to the requirements of the customer.

Our possibilities range from the design and the production of the assembled units including: Compressors, heat exchangers with liquid separators, refrigerant pumps, oil drain tanks, valves, controls and its connecting piping. We are specialized in using Natural Refrigerants.

Good quality for a competitive price

FEATURES

- Long term experience and knowhow of Natural refrigerants;
- Complete delivery and assembly of the package;
- Complete 3D design and engineering by MAREFSUP BV;
- Delivery including P&ID, itemlists and manuals;
- Tailor made solutions to the requirements of the Customers;
- Delivery including CE-PED declaration of conformity or certification by ships classification society;



The pictures above show different solutions for the Cascade condensers. The Cascade condenser in the lower picture has an external liquid separator while the Cascade condenser in the upper picture has an Internal liquid separator. The maximum height of the unit at site was to be limited to 3,5 meters which we solved by offering a tailor made solution to our client.

Technical information

<u>General:</u>		Remarks
Application	Shore and Offshore	
Dimensions & Capacities	Acc. Customer requirements	Tailor made solutions
<u>Design:</u>		Remarks
Thermal design Unit design / Arrangement Mechanical design Refrigeration design	MAREFSUP MAREFSUP MAREFSUP MAREFSUP	Heat exchangers manufactured by INTEGASA
<u>Refrigeration data:</u>		
Refrigerants	Ammonia, HFC's, CO ₂ , Propylene,	Others on request
Design temperatures	From -50 °C and higher	
Design Pressure	Up to 100 Bar	
<u>Execution:</u>		
Heat Exchanger and pressure vessel materials	Carbon Steel Titanium CuNi 90/10 CuNi 70/30 Stainless; AISI 304, 316L, 316Ti Super duplex; SAF2205, SAF2507	Others on request
Covered standards, design codes and Classification societies for unit design.	Standards and design codes CE-PED CODAP ASME BS-PD5500 AD Merkblätter	Marine Classification societies American Bureau of Shipping Bureau Veritas Det Norske Veritas Germanischer Lloyd Lloyds Register of Shipping Russian register of Shipping Registro Italiano Navale
<u>Accessories:</u>		
Stop valves	AWP or Danfoss	
Control equipment	Danfoss	
Refrigerant pumps	Hermetic	CAM or CNF
<u>Software</u>		
Unit and Heat exchanger design	Solidworks premium	
Thermal design	HTRI	
Mechanical design	Microprotol	