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Marine Refrigeration Solutions

Pressure vessels

Pressure vessels are considered to be simple and easy to produce. In many cases however specialized vessels are required such as liquid separators, oil separators and high pressure vessels for CO₂ that are used in refrigeration plants or industrial process plants for the chemical industry.

In these cases our knowledge to design such equipment can be essential to make a proposal to the specification of the client.



Good quality for a competitive price

LIQUID AND OIL SEPARATORS

We are proud that we have the design knowledge to calculate liquid separators for any kind of refrigerant, based on the required capacity, operating temperature, type and circulation rate of the refrigerant.

For oil separators for Ammonia screw compressors we can guarantee a maximum oil carryover of 5 to 10 and ppm.

Additionally we have designed and produced CO₂ oil separators for screw compressor packages with a design pressure of 48 Bar as well as CO₂ liquid separators with a design pressure of 34 Bar and a design temperature of -50 °C.



We can offer completely assembled liquid separators that are fitted on a frame together with the refrigerant circulation pumps, valves, filters and other belongings. Please check our PDF brochure " Unit assembly "

Technical information

<u>General:</u>		Remarks
Application	Marine, Offshore and shore	
Dimensions & Capacities	Acc. Requirements or calculations	
<u>Design:</u>		Remarks
Functional and Separation design	MAREFSOL	
Mechanical design and Production.	MAREFSOL	
<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>		
Processed materials	CS 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.	Standards and design codes CE-PED ASME (U-Stamp) API PD5500 AD Merkblätter Stoomwezen CODAP	Classification societies American Bureau of Shipping Bureau Veritas Det Noske Veritas Germanischer Lloyd Lloyds Register of Shipping Russian register of Shipping Registro Italiano Navale Nippon Kaiji Kyokai Korean Register of Shipping Indian register of Shipping
<u>Quality assurance :</u>	Quality Management System	Certified by Classification societies
As pressure vessel and Heat Exchanger Manufacturer	UNE-EN-ISO 9001:2000	Det Noske veritas ; Class I & II Certification
	According the requirements of Annex III, Module H&H1 of the Pressure Equipment Directive 97/23/EC. Certified by Lloyds Register	Lloyds Register of Shipping; Certification according to class 2.1. certificate for pressure vessels welding
		Germanischer Lloyd; Pressure vessels welding Certification
		Bureau Veritas; Mode II Surveyor certification