



- 1) Founded in 2008;
- 2) Design, Engineering and Consultancy;
- 3) Delivery and installation
- 4) of Complete Refrigeration plants for Marine applications;
- 5) Supervision, testing and commissioning;
- 6) Service and repair

Worldwide projects.



Our business

1) Juice Carrier in China



Our business- 2018



1) Container vessel converted to Juice Carrier in China



Our business – 2016 to 2019

1) 4 Reefer vessels in China





Marine Refrigeration Solutions

Our business

- 1) Fishing vessel – Label Normandy. Project 2017





Our business

- 1) Reefer Machinery room
Label Normandy.
Completely installed in a
small space by MAREFSOL.

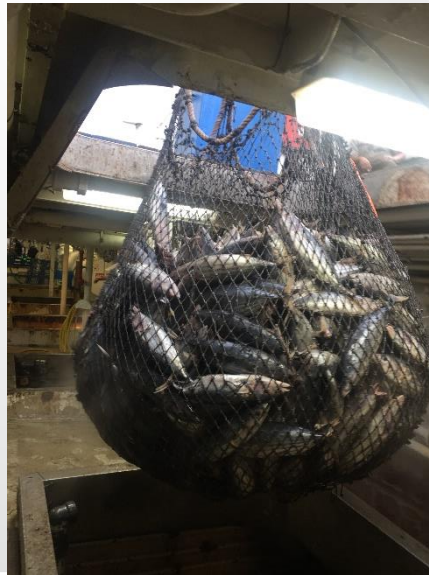


Our business

- 1) Pelagic freezing trawlers including;
 - Ammonia / CO2 systems
 - Brine systems;
 - Ammonia pump systems

Our business

- 1) Tuna seiners;
 - Ammonia systems
 - Brine systems;
 - Ammonia pump systems
 - Service and repair, system upgradings



Our business

1) Brine Chiller Unit Reefer



Marine Refrigeration Solutions





Our business

- 1) R404A/Pekasol chiller unit;
- 2) Design and production by MAREFSUP including electrical and software engineering.
- 3) Installed aboard of Fruit juice carrier IBIS ARROW;



- 1) Founded in 2008
- 2) Design, sales and external fabrication of Shell and Tube Heat Exchangers;
- 3) Design of assembled Heat Exchanger units, compressor units and Chiller units;
- 4) Type approval CE-PED for units assembly of ammonia and CO2 Refrigeration units by Energie Consult (NOBO 1242);
- 5) F-gas certificate by Energie Consult (NOBO 1242)
- 6) Products can be designed, produced and tested according AD 2000, ASME VIII (Incl. U stamp) , LR, BV, DNV , GL, RINA, etc.



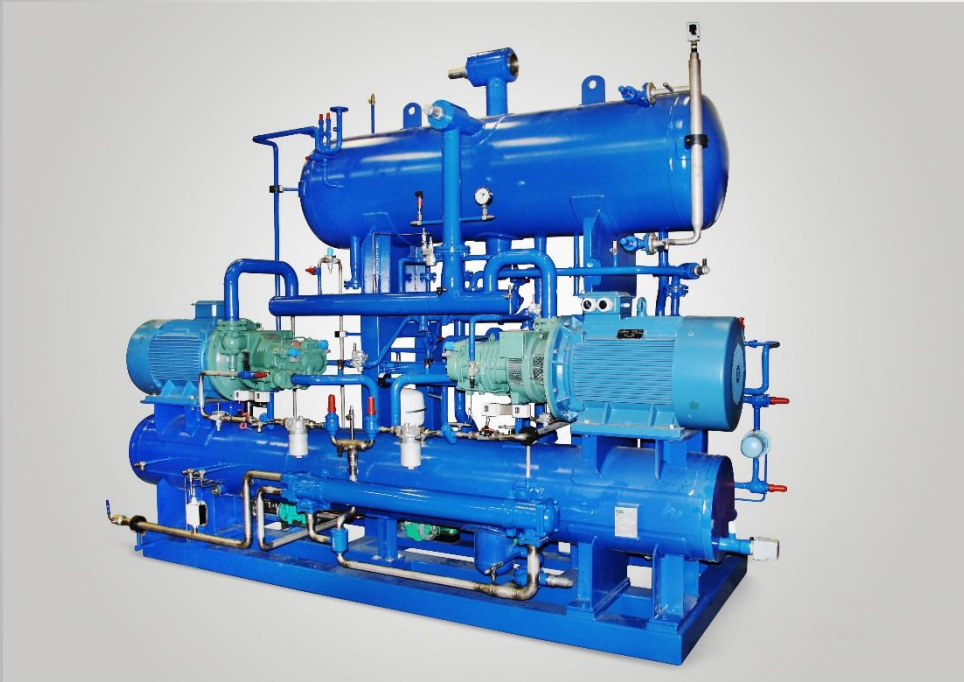
Project example 1

- 1) R507 /CO2 Cascade unit;
- 2) Design and production by MAREFSUP, including electrical switchboards, PLC controls and software.
- 3) Installed in Frozen storage and freezing facility in New Zealand;



Project example 2

- 1) High temperature Heat pump test unit;
- 2) Design and production by MAREFSUP.



Project example 3

- 1) NH3 compressor – pump unit;
- 2) Design and production by MAREFSUP.
- 3) Installed in Juice storage en blending plant in Rotterdam;



Project example 4

- 1) NH3 compressor unit;
- 2) Design and production by MAREFSUP.
- 3) Installed Meat producing company in Belgium;



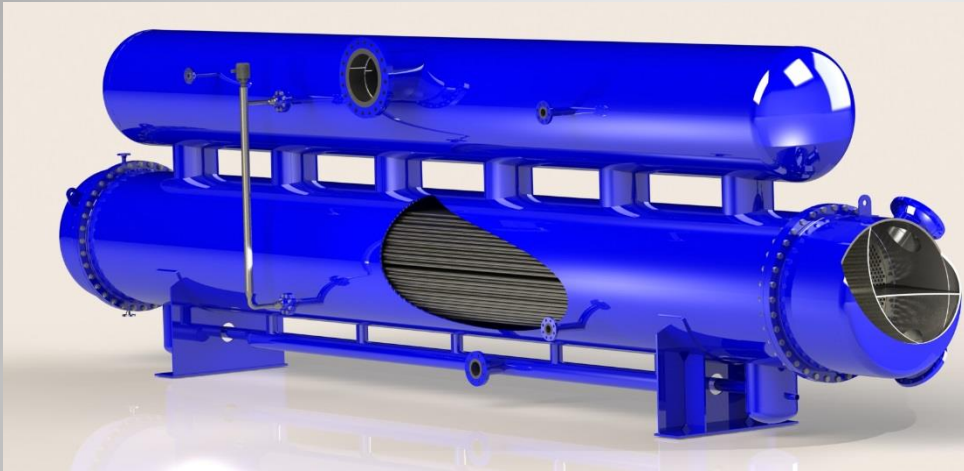
Project example 5

- 1) Plate in shell Heat Exchangers and units;
- 2) Design and production by MAREFSUP.

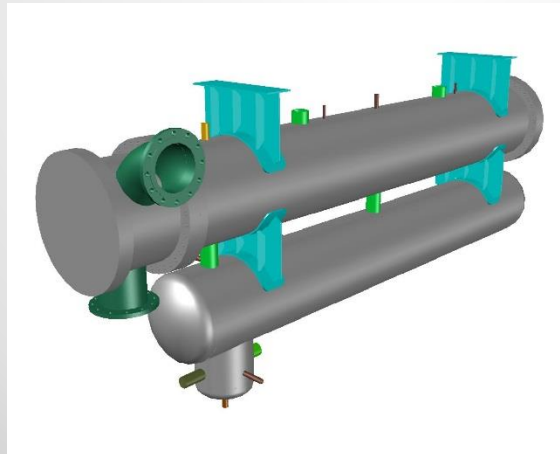


MAREFSUP

Marine Refrigeration Supplies

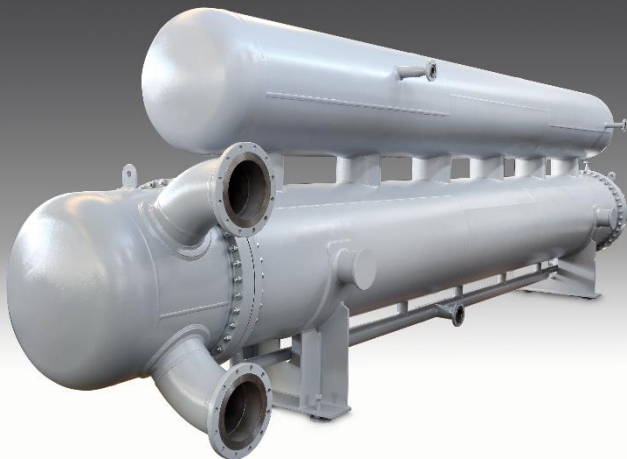


HTRI



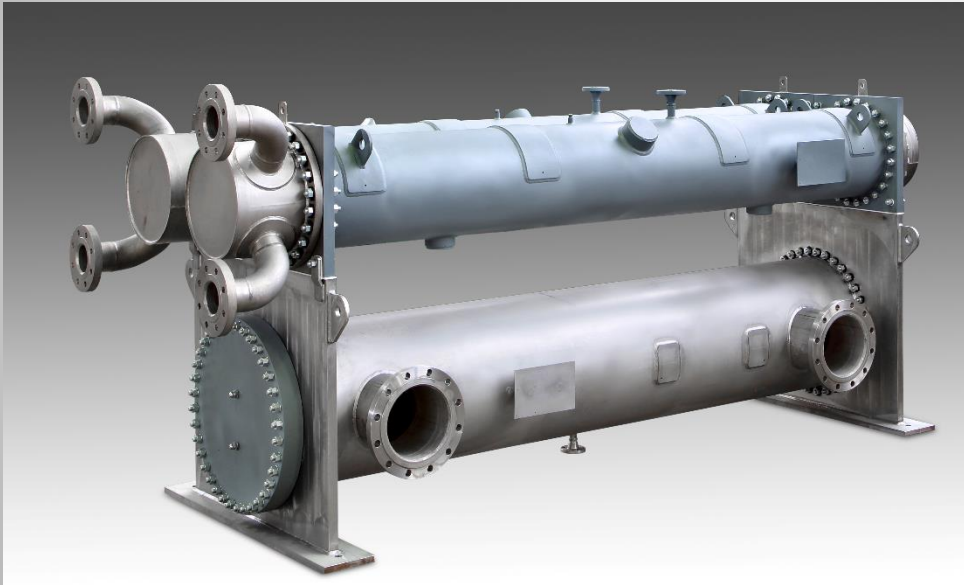
Design Tools;

- 1) Solidworks premium for 3D design-Licensed by MAREFSUP;
- 2) Autocad 2014 – Licensed by MAREFSUP.
- 3) HTRI – Licensed by MAREFSUP;
- 4) Lauterbach design tools for strength calculations-Licensed by MAREFSUP.



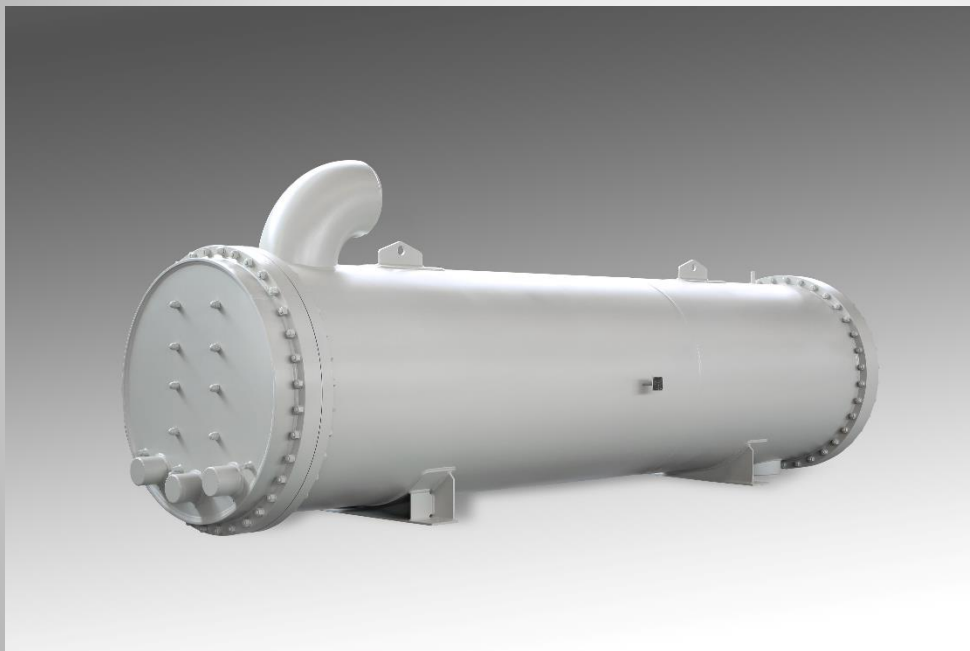
Project example 6

- 1) Project for INEOS in Belgium;
- 2) Thermal calculations and liquid separator design by MAREFSUP.
- 3) Liquid separator design by MAREFSUP;



Project example 7

- 1) Project for BP in UK;
- 2) Thermal calculations and liquid separator design by MAREFSUP.
- 3) Liquid separator design by MAREFSUP;
- 4) Titanium condenser tubes and titanium water heads;



Project example 8

- 1) Brine coolers;
- 2) Thermal calculations and liquid separator design by MAREFSUP.
- 3) Direct expansion R404A, Tevap $-45,3\text{ C}$, Tin -40 Tout -42C ;
- 4) 3200 Steel innerfinned tubes;



Project example 9

- 1) Propylene oil separators;
- 2) Design by MAREFSUP.
- 3) Application; Cascade system LNG carrier;
- 4) Delivered with GL approval.
- 5) Also NH₃ oil separators with a guaranteed oil carry over below 5 ppm.

Service and parts



World wide Service

We have delivered thousands of froster plates for many brands of platefreezers. In many cases the mechanical design was improved as well as the thermal efficiency.

When service or repair is required we can advise in advance wherever required for almost any type of refrigeration system including all types of shell and tube heat exchangers.



TEAM MAREFOL / MAREFSUP;





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