



Oco Marine Equipment Ltd.
南通欧科船舶设备有限公司

Professional In Thermal & Refrigeration Technology

- ◆ Heat Exchanger
- ◆ Marine Boiler Service
- ◆ Electrical Heater
- ◆ Air-conditioner and Refrigerator

Oco Marine, Your Most Reliable Partner

Oco Marine is known all over the world as an innovative, dedicated and reliable thermal equipment & engineering partner. **Oco Marine's** success is based upon high-class quality, professional service, broad experience and long-term relationship with customers.

Oco Marine designs and manufactures its products to highest standards to ensure a long operational lifetime and durability. If required, the products can be quality assured by all main certification societies.

Oco Marine provides a complete after sales service from supply of spare parts to inspection, maintenance and repair.



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Add: No.888 COOPEN PARK, Jinxin Road, Gaoxin District, Nantong City, China
E-mail: info@ocomarine.com
Website: www.ocomarine.com
Tel: +86 513 8685 8135
Post Code: 226300



ClassNK



high-class quality and professional service

OCO MARINE EQUIPMENT

Air Coolers



Applied To Following Engine Tyes:

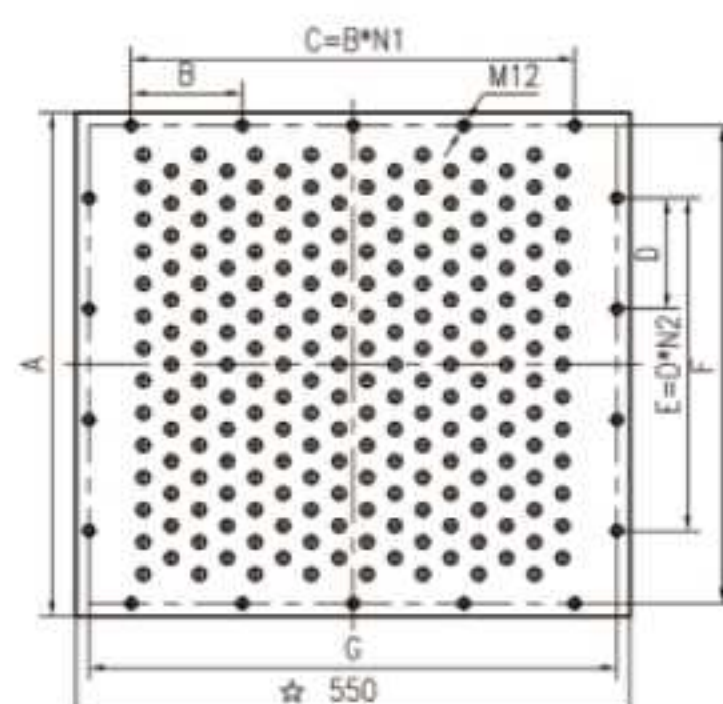
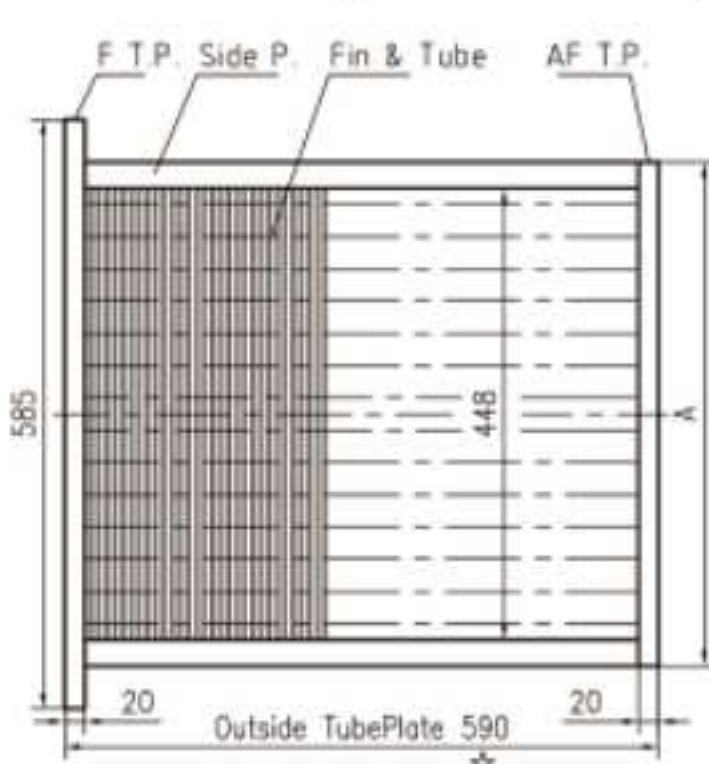
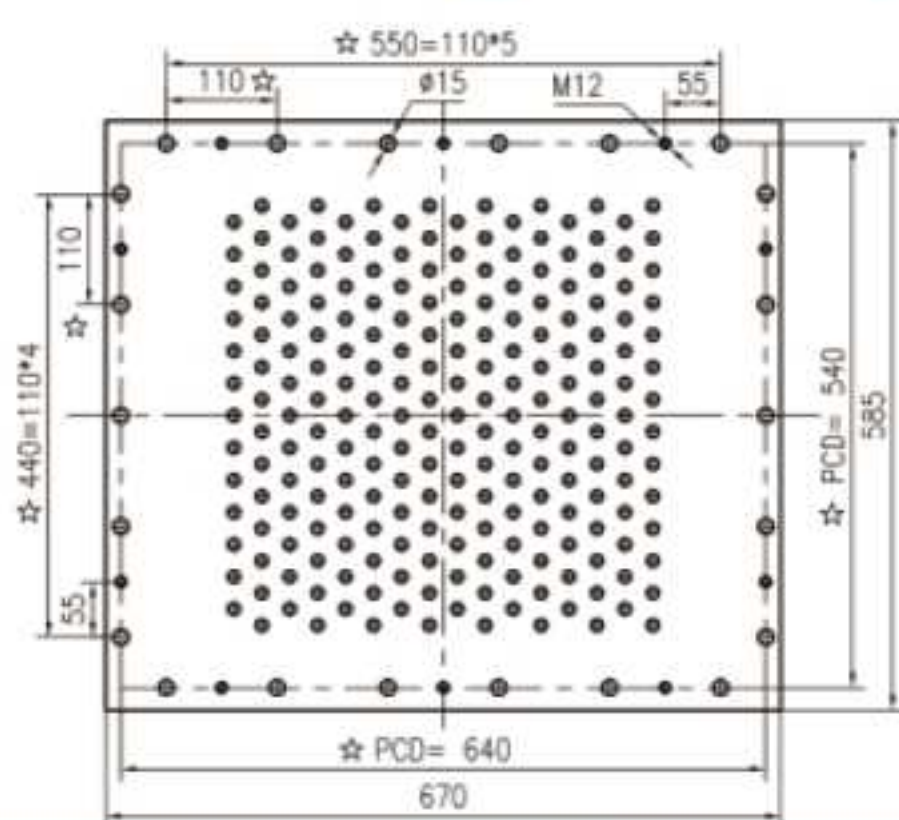
- ◆ MAN
- ◆ B & W
- ◆ SULZER
- ◆ YANMAR
- ◆ MITSUBISHI
- ◆ WARTSILLA
- ◆ AKASAKA
- ◆ FLAT
- ◆ BLACKSTONE
- ◆ MAK
- ◆ PIELSTICK
- ◆ DEUTZ
- ◆ S.K.L
- ◆ CREPELLE
- ◆ M.W.M
- ◆ ALPHA
- ◆ CATERPILLAR
- ◆ DAIHATSU
- ◆ NOHAB POLAR

Material:

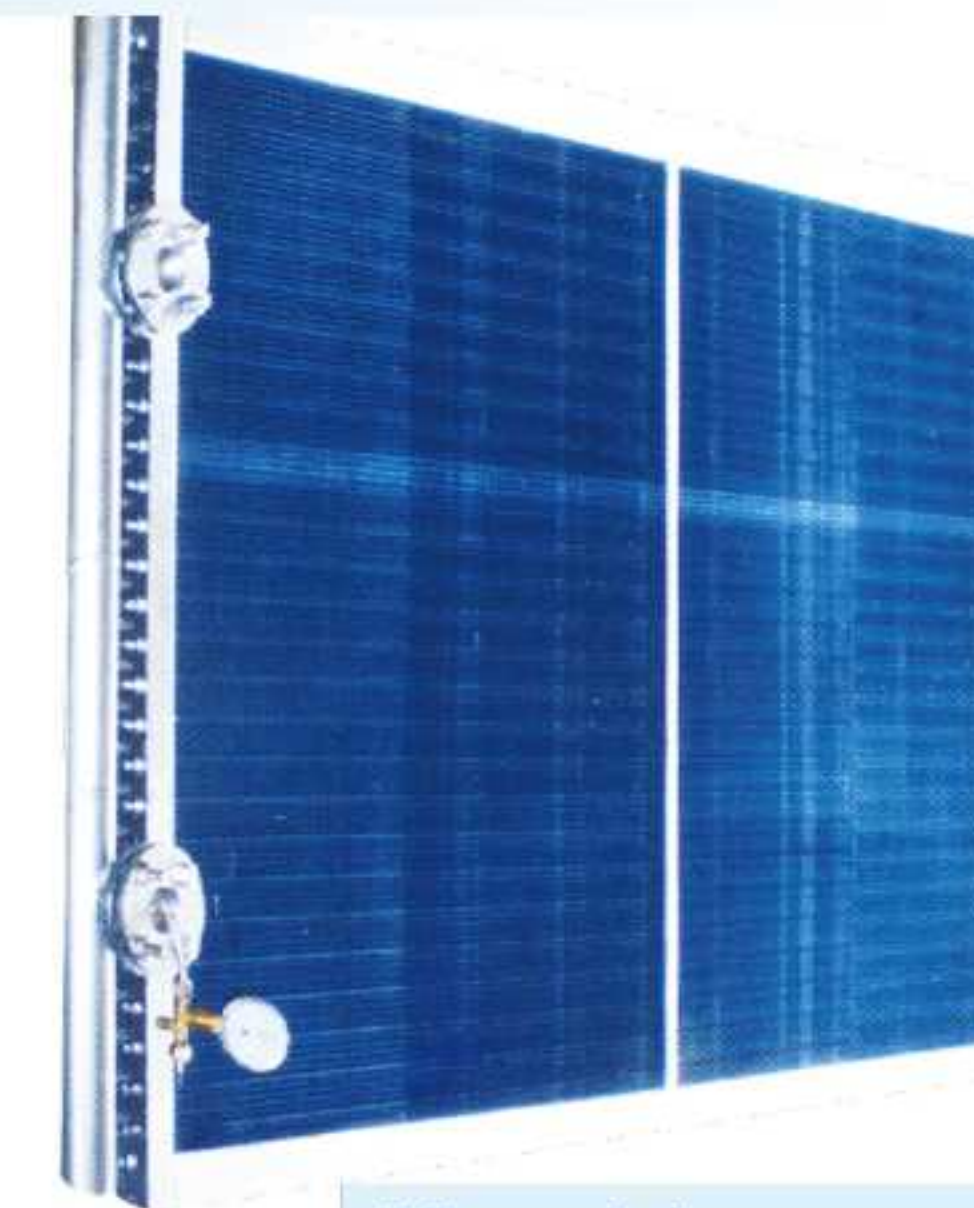
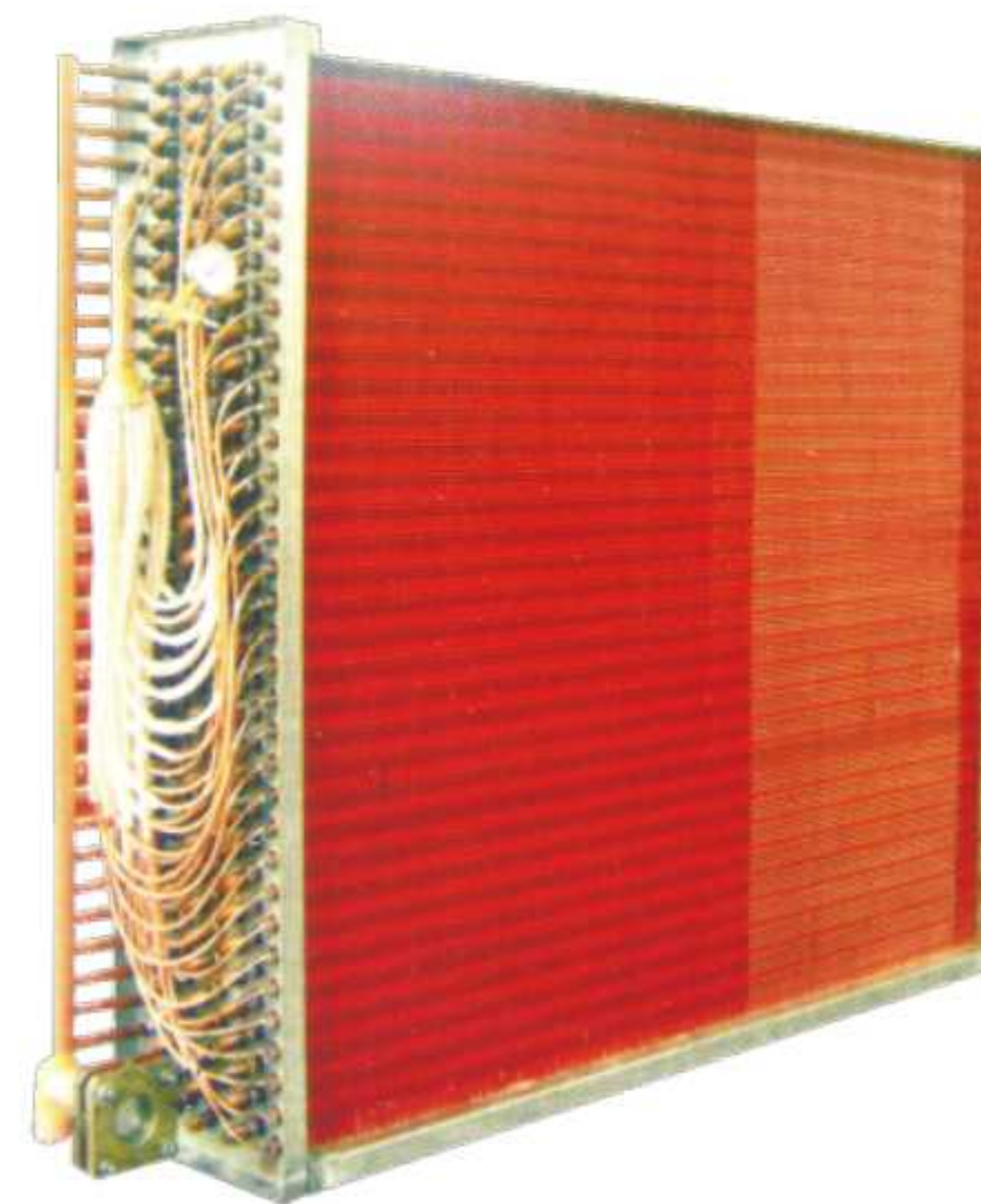
Tube Sheet: Nabal Brass
Tube: Al-Cu, Cu-Ni
Fin: Copper

Confirm Drawing with ship

Dimensions request to ship and feedback
In case no original drawing on board



A/C Evaporator & Heater



Material:

Tube: Copper
Fin: Aluminium, Copper

Advanced fins for heat-transfer enhancement improve efficiency greatly. Especially applied to non-condensable gas, typical application as follows:

- ♦ M/E air cooler
- ♦ A/E air cooler
- ♦ A/C evaporator
- ♦ A/C heater
- ♦ cabin heater
- ♦ cabin radiator

- design according to thermodynamic parameters and fixing dimensions.
- manufacture based on advanced technology and normative procedure.
- board to survey if possible when technical file was missing.
- also provide following professional services:
 - ◆ detection leakage and mending or plugging.
 - ◆ removal and installation.
 - ◆ chemical and ultrasonic cleaning.

Metal-Plastic Complex Cover and Pipe

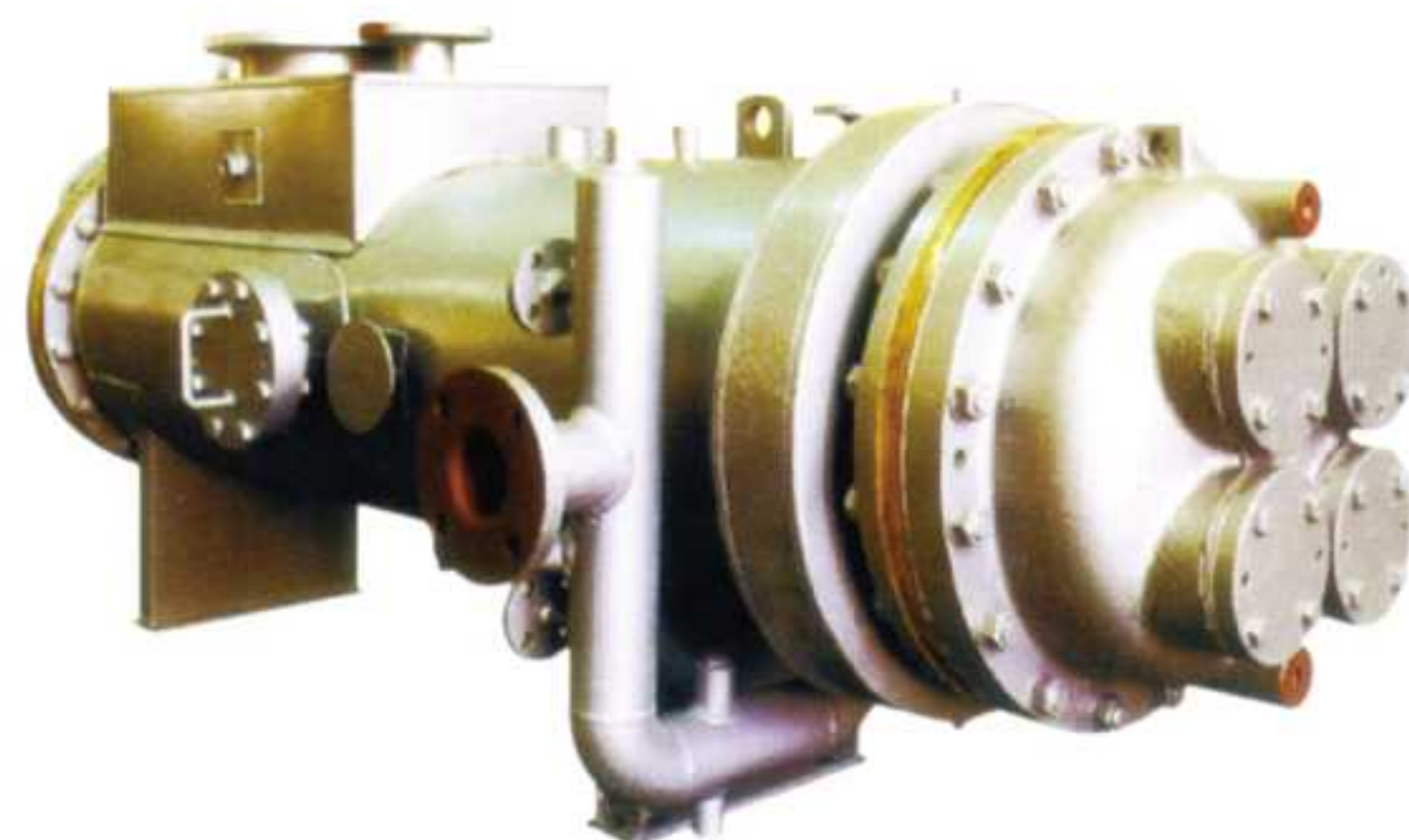
Stabile plastic lining would prevent corrosion greatly.
Prolong lifetime and decrease cost of maintenance.



lining material: PE/PP/PVC
lining thickness: 3~10mm
working temperature: -40℃~-120℃
working pressure: 0~1.6MPa



Fresh water generator



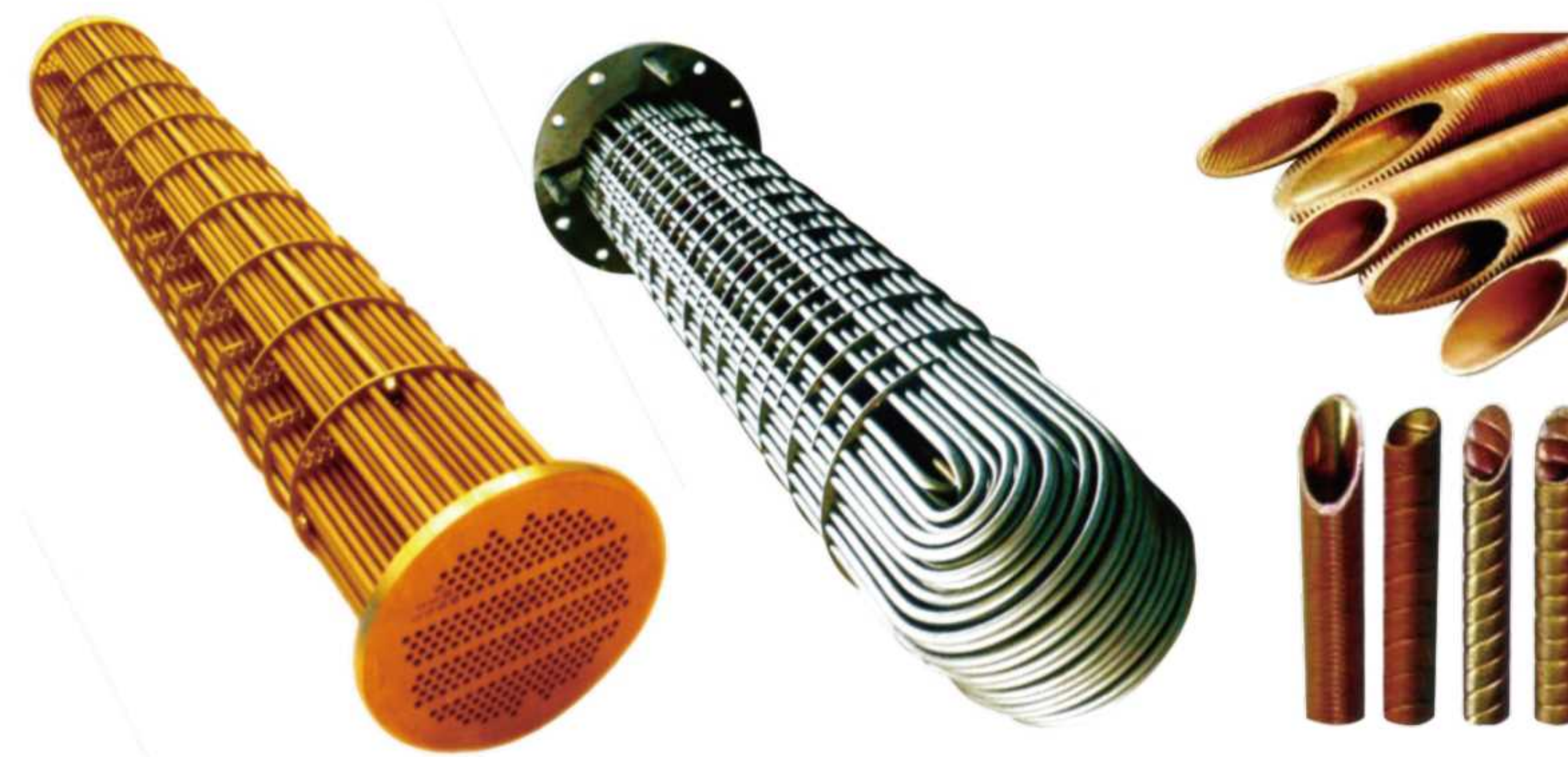
ATM condenser



L.O. cooler



F.O. heater



Shell-tube heat exchanger has more advantages in cost, maintenance, condition. It is especially applied to high thermal capacity medium such as liquid, steam.

typical applications as follows:

- ◆ vacuum condenser
- ◆ ATM condenser
- ◆ A/C condenser
- ◆ L.O. cooler
- ◆ F.O. heater
- ◆ F.O. heater
- ◆ F.W. cooler
- ◆ butter worth heater
- ◆ fresh water generator

- design according to thermodynamic parameters and fixing dimensions.
- manufacture based on advanced technology and normative procedure.
- board to survey if possible when technical file was missing.
- also provide following professional services:

- ◆ detection leakage and mending or plugging.
- ◆ removal and installation.
- ◆ chemical and ultrasonic cleaning.
- ◆ retubing partly or fully.
- ◆ mending shell.

Metal-Plastic Complex Cover and Pipe

Stabile plastic lining would prevent corrosion greatly.
Prolong lifetime and decrease cost of maintenance.



lining material: PE/PP/PVC
lining thickness: 3~10mm
working temperature: -40℃~-120℃
working pressure: 0~1.6MPa

Hydraulic Oil Cooler (radiator)



Glass-fiber Reinforced Epoxy Pipe



Plate Heat Exchanger

• Sorts & Use

Function Classification: Plate Type Cooler / Plate Type Heater
Plate Type Cooler is used in cooling of lubricating oil / fresh water / acid or alkali medium of dynamic equipment; Plate Type Heater is used in heating of fresh water / oil / drinking water.

• Structure

Plate Type Heat Exchanger enjoys advantages of compact shape, small size and convenient maintenance. Different corrugations (ripple / level / inverted / diagonal) and good performance are decided with heat transmission of Plate Type Heat Exchanger.

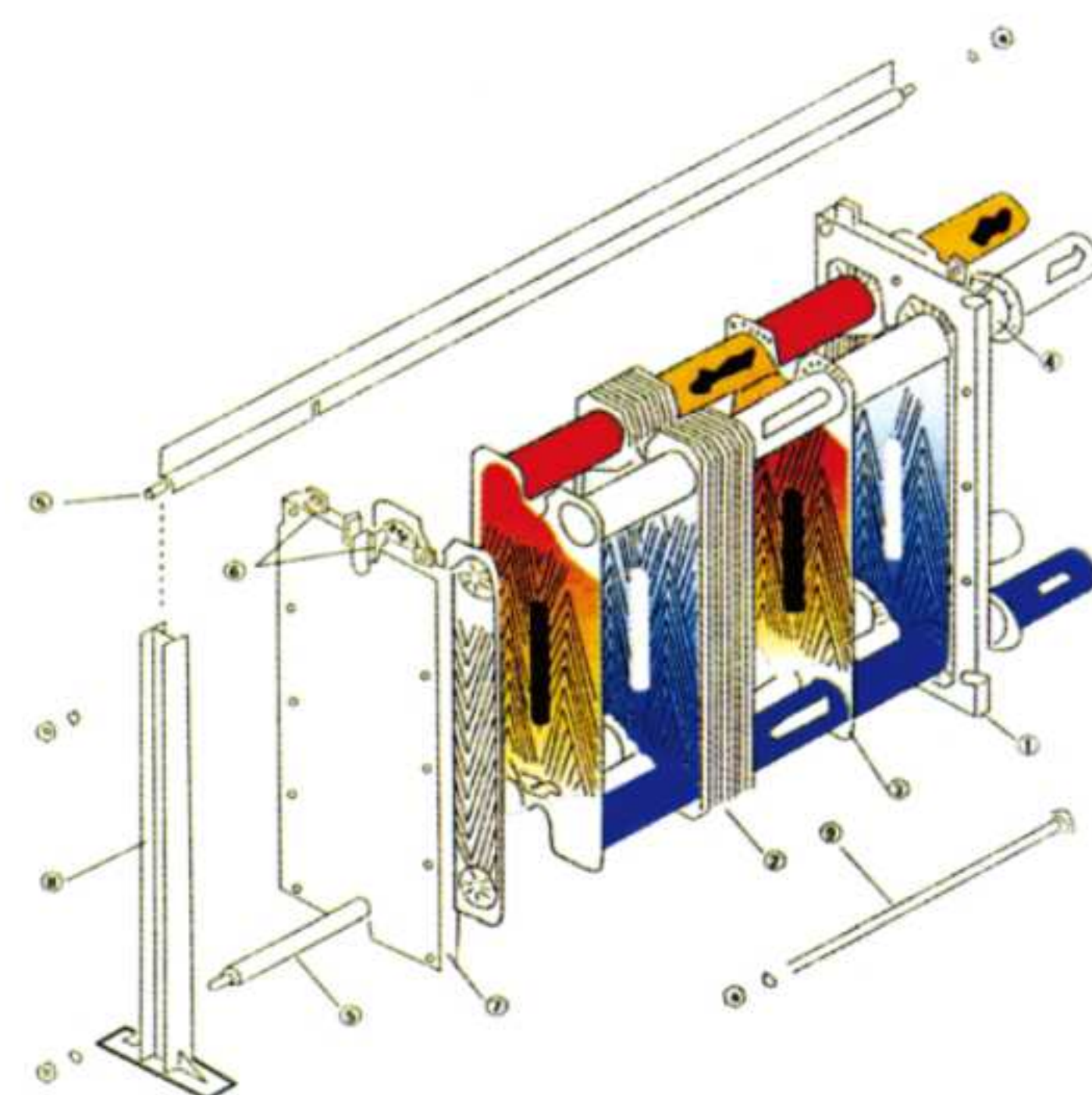
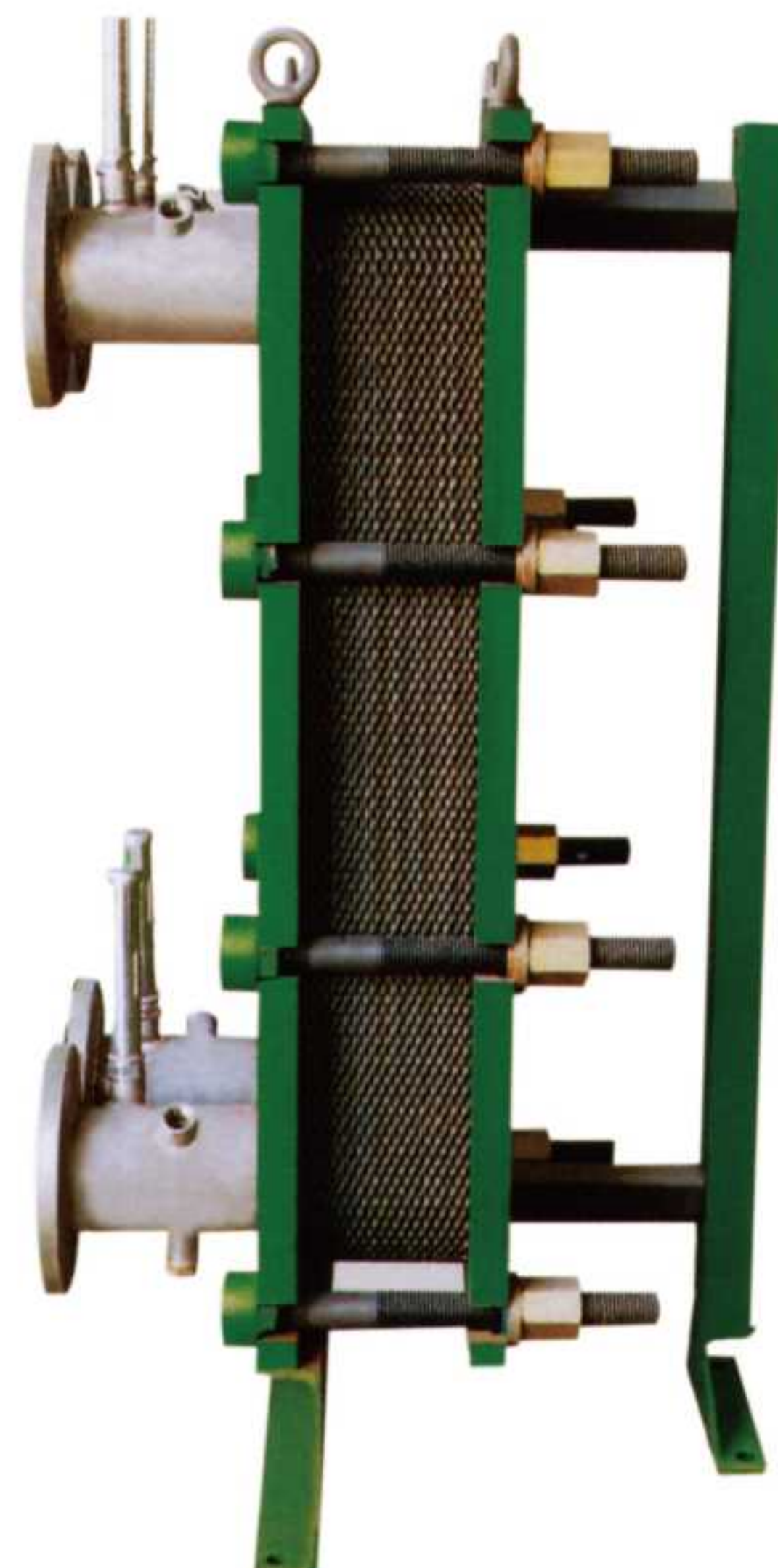


Plate Type Heat Exchanger Structure Drawing

Plate Type Heat Exchanger Structure Drawing

- 1) dead locking plate
- 2) plate
- 3) gasket
- 4) connecting pipe / Flange
- 5) up-down-leader
- 6) rolling-device
- 7) moving locking plate
- 8) support
- 9) clamp bolt & nut

• Design for MGO/MDO cooler

Plate cooler for MGO/MDO Type selection

Fill Below Medium data requirement

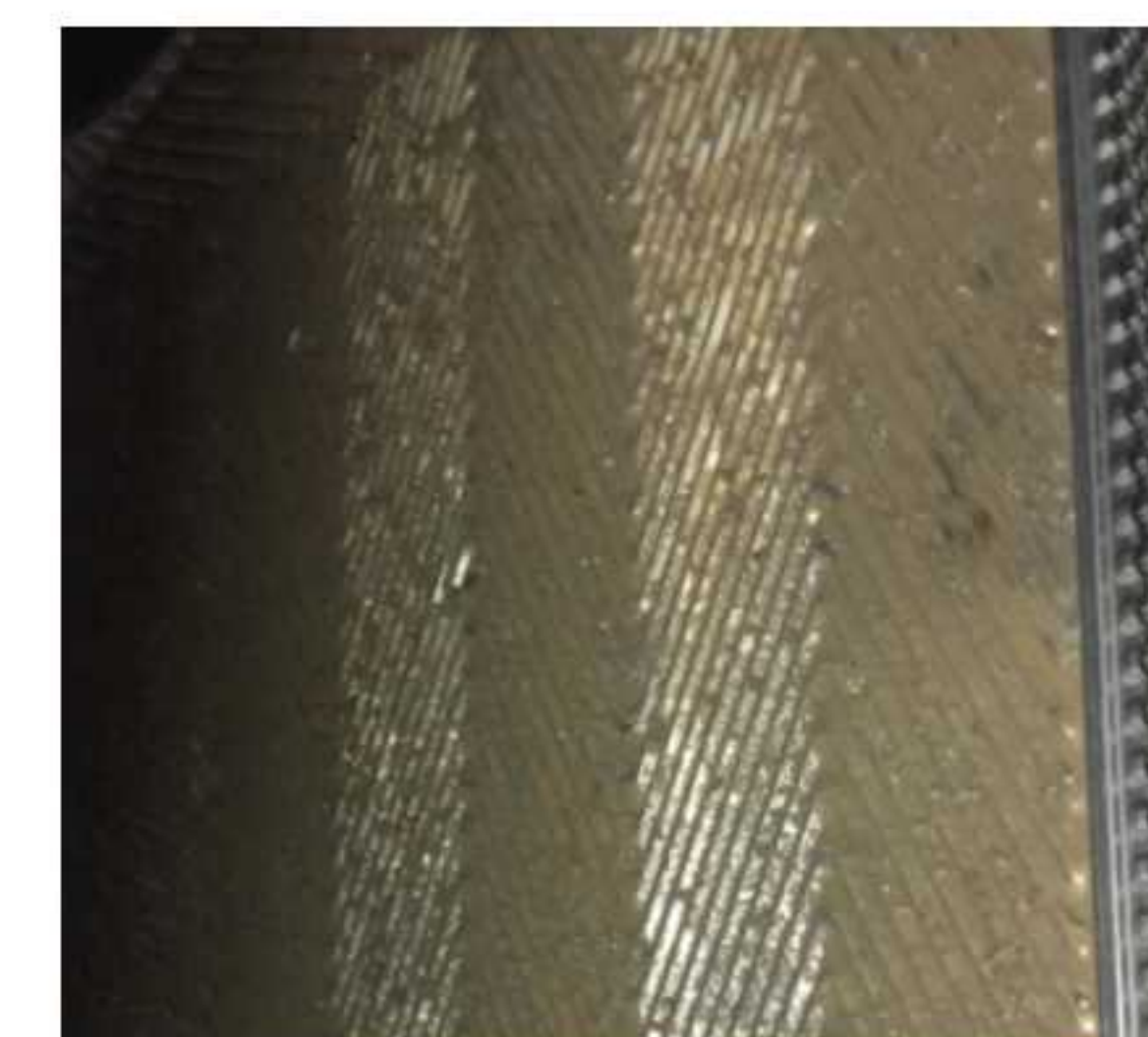
F.O (MGO/MDO)		Cooling water (sea water / fresh water)	
Temp. inlet	() °C	Temp.inlet	() °C
Temp. outlet	40 °C/ ()		
Volume	() m³/h	Volume	() m³/h



• Various plate and gasket to choose



• Cleaning & replace gaskets (CFW) on board



Before

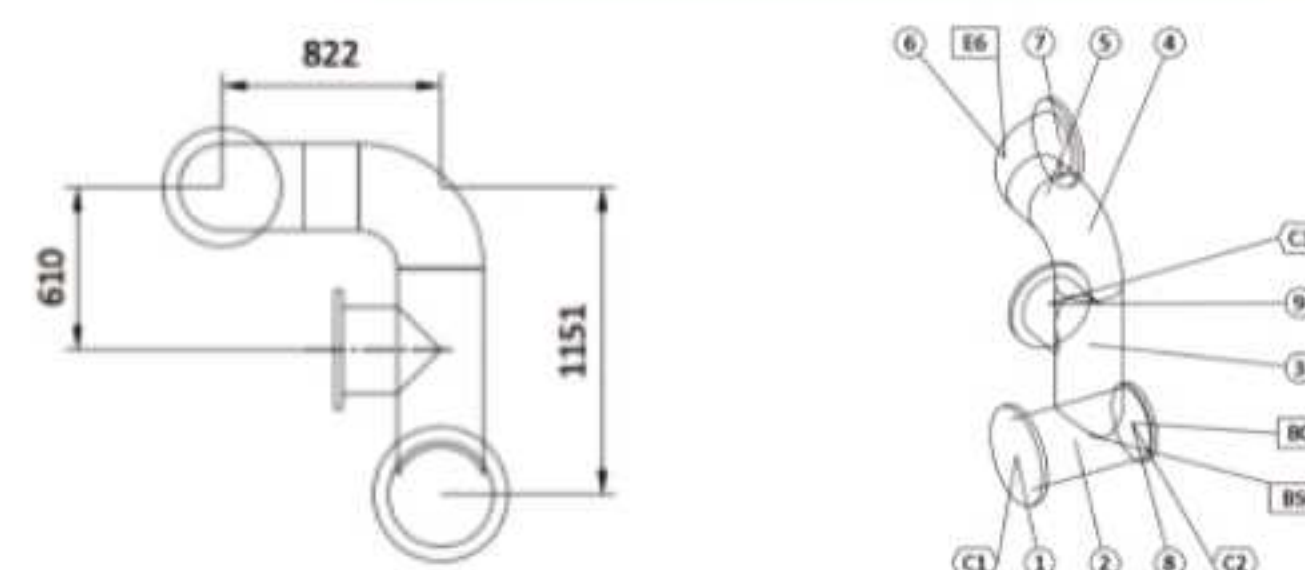
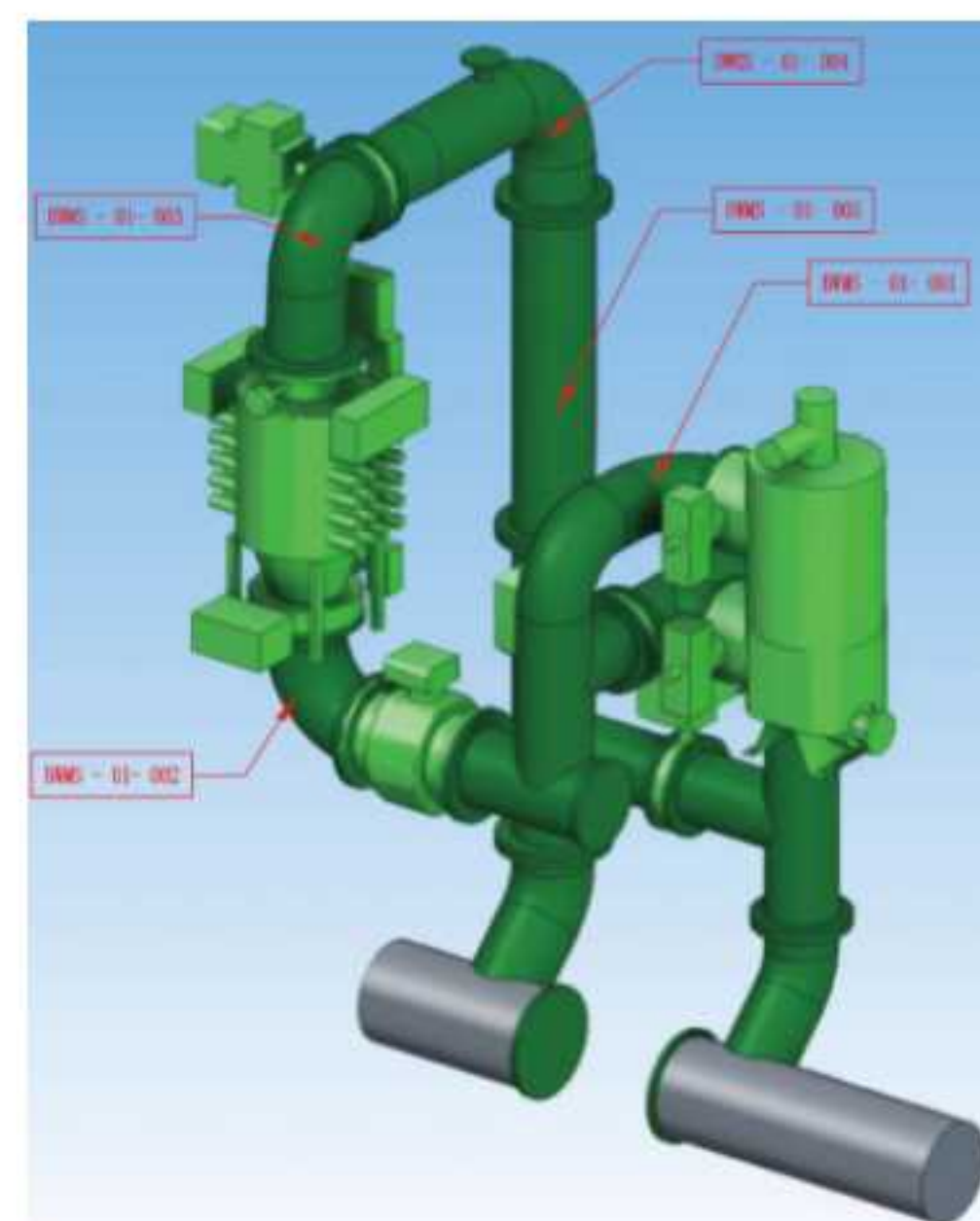


after cleaning

Prefabrication BWTS' Piping

- Preabrication piping set

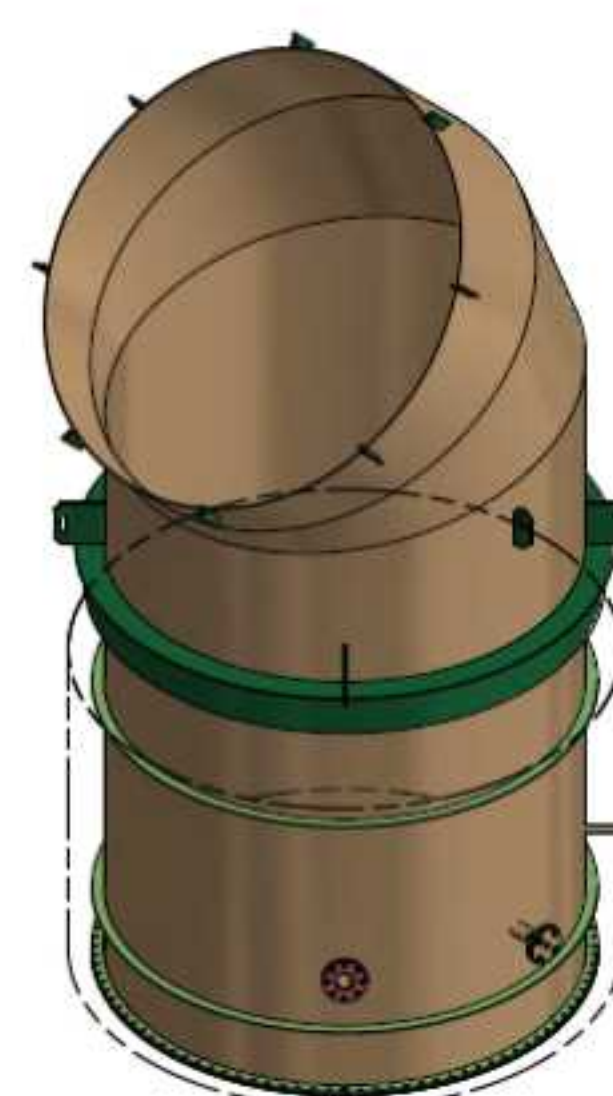
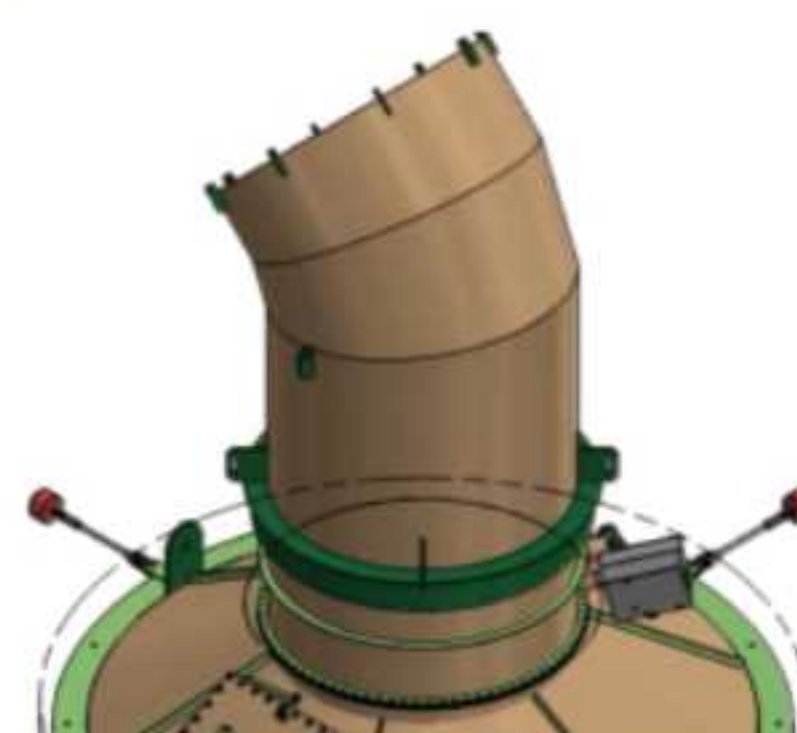
Fabrication according to client's drawing, accurate dimensions for further installation, coating Galvanize or specified PE



Prefabrication Gas pipe of Scrubber

- Fabrication Gas pipe

Fabrication according to client's drawing, Fire (high temperture) resistance stainless steel



Valve & Filter



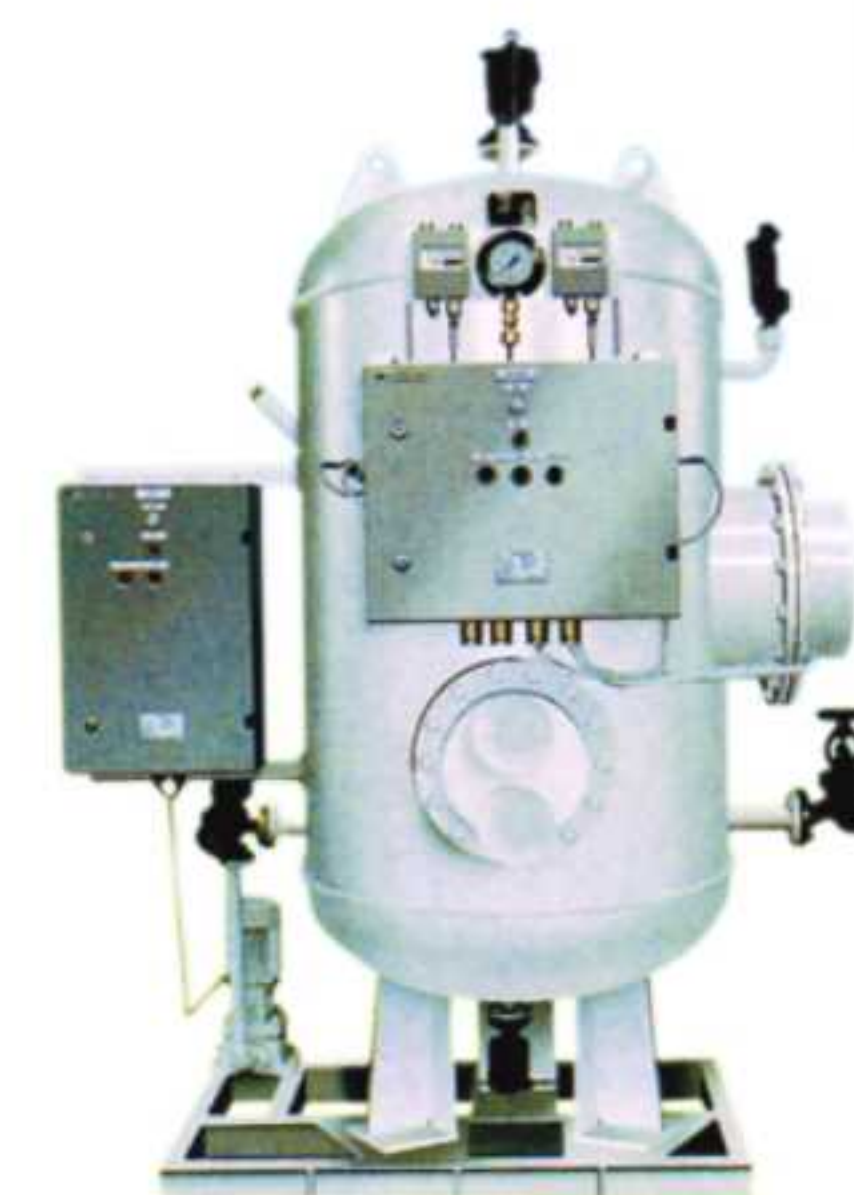
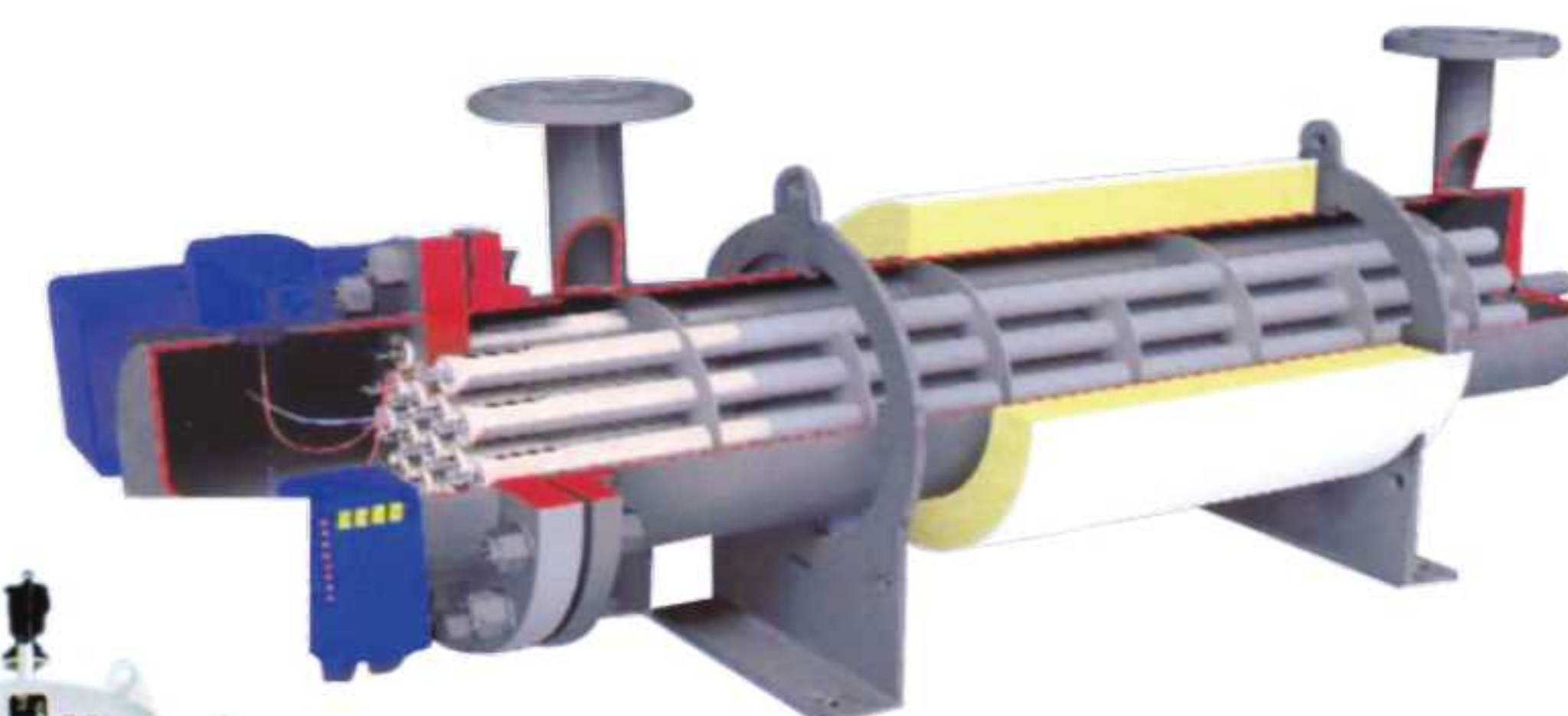
Electrical Heater

Technical Data:

Heating capacity: 5~150KW
Working pressure: 0~16bar
Working temperature: 30℃~150℃
Surface loads:
Air: 1.0~2.0 W/cm²
Water: 3.0~8.0 W/cm²
Oil: 0.5~1.5 W/cm²



F.O. electrical heater



Water tank



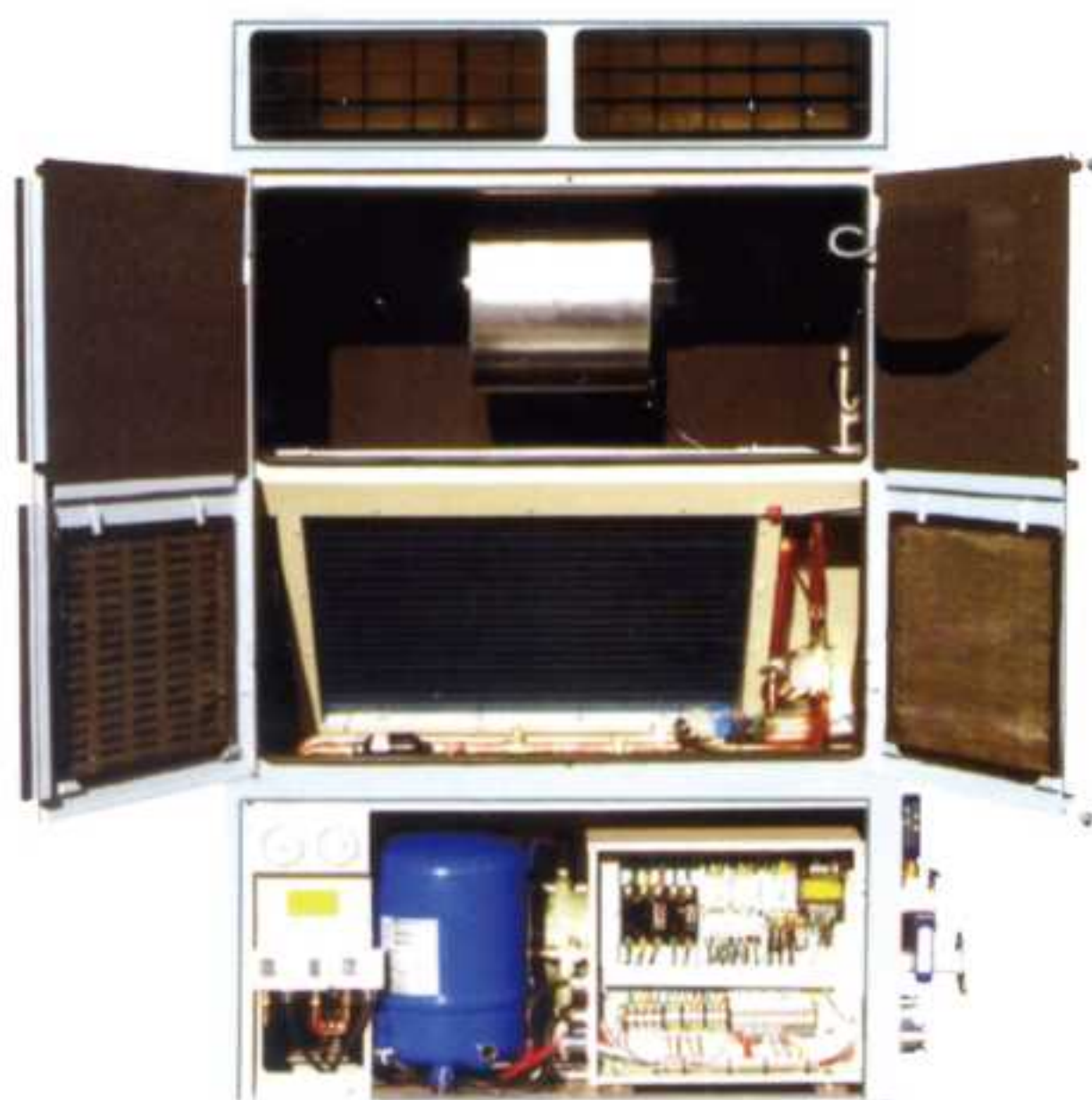
Sanitary electrical heater

- Safe electric heating element.
- Credible control unit and sensor.
- High control precision.
- Multiple safety protection.
- Flexible design for customization.
- Applied to heat air, water, oil.

Electrical elements



Air-conditioner and Refrigerator



Control room A/C

**24 hours emergency or general service in china,
Full engineers and implements are available.**

- ◆ Professionally inspect system and advise.
- ◆ Manufacture or repair condenser and evaporator.
- ◆ Renew or overhaul compressor, expansion valve, filter, draught fan, motor, etc.
- ◆ Connect circuit, detect leakage, then vacuumize.
- ◆ Retrive and fill refrigerant medium.
- ◆ Inspect control system and renew elements.
- ◆ Debug full system in good condition.

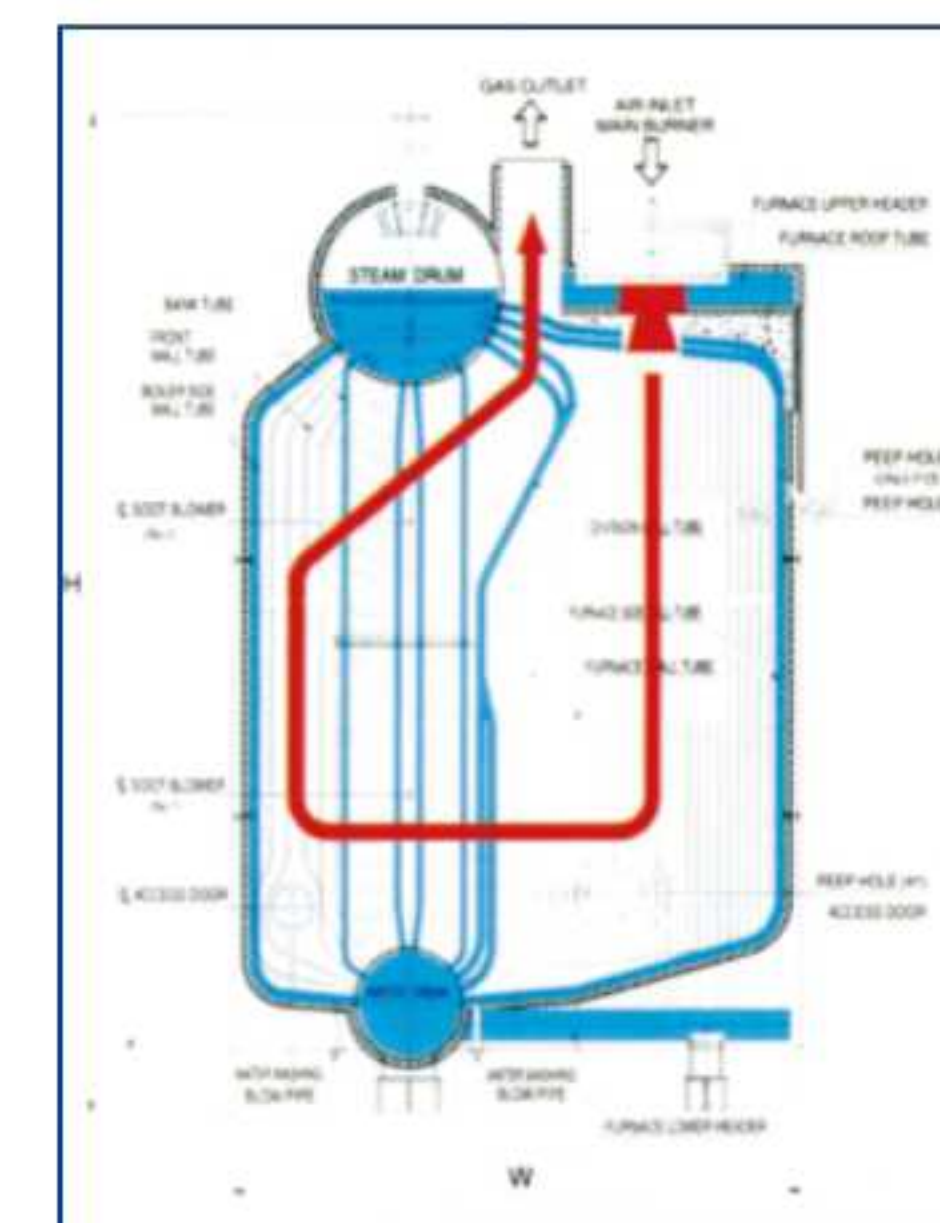
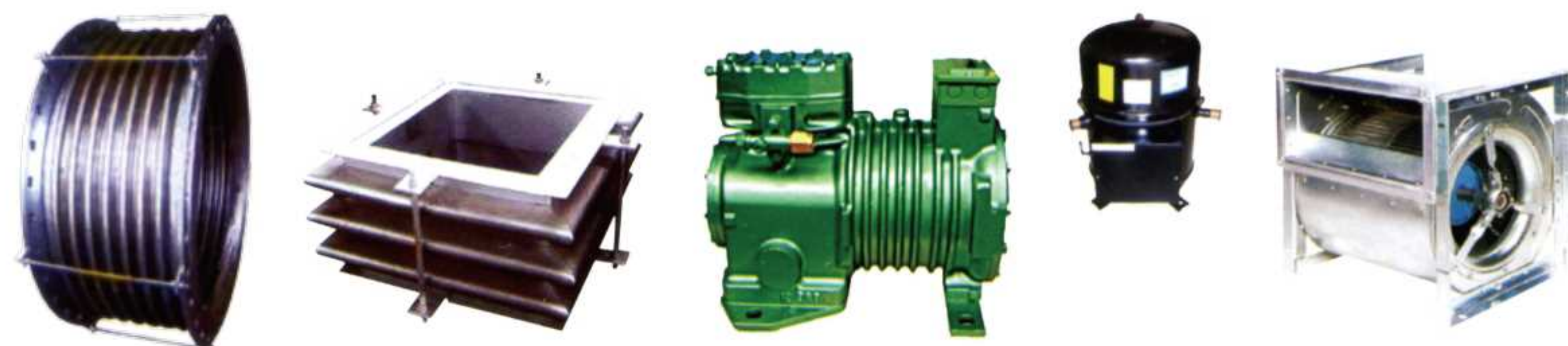


Refrigerator



A/C condenser and evaporator

Expansion Bellows (Joints)



Marine Boiler Repairs For Following Boiler Makers

- ◆ Aalborg
- ◆ Kangrim
- ◆ Osaka
- ◆ Kawasaki
- ◆ Sunrod
- ◆ Miura
- ◆ Green
- ◆ Mitsubishi

- Full equipments for the fabrication of all types of boiler & EGE tubes.
- Boiler inspections: damage reports, cost estimate, full boiler surveys.
- 24 hours emergency repair services, supervisors and repair teams available.
- Highly skilled and experienced teams and certified welders on board.
- Work according to rules of all classification societies.



Impeller Of Fans

