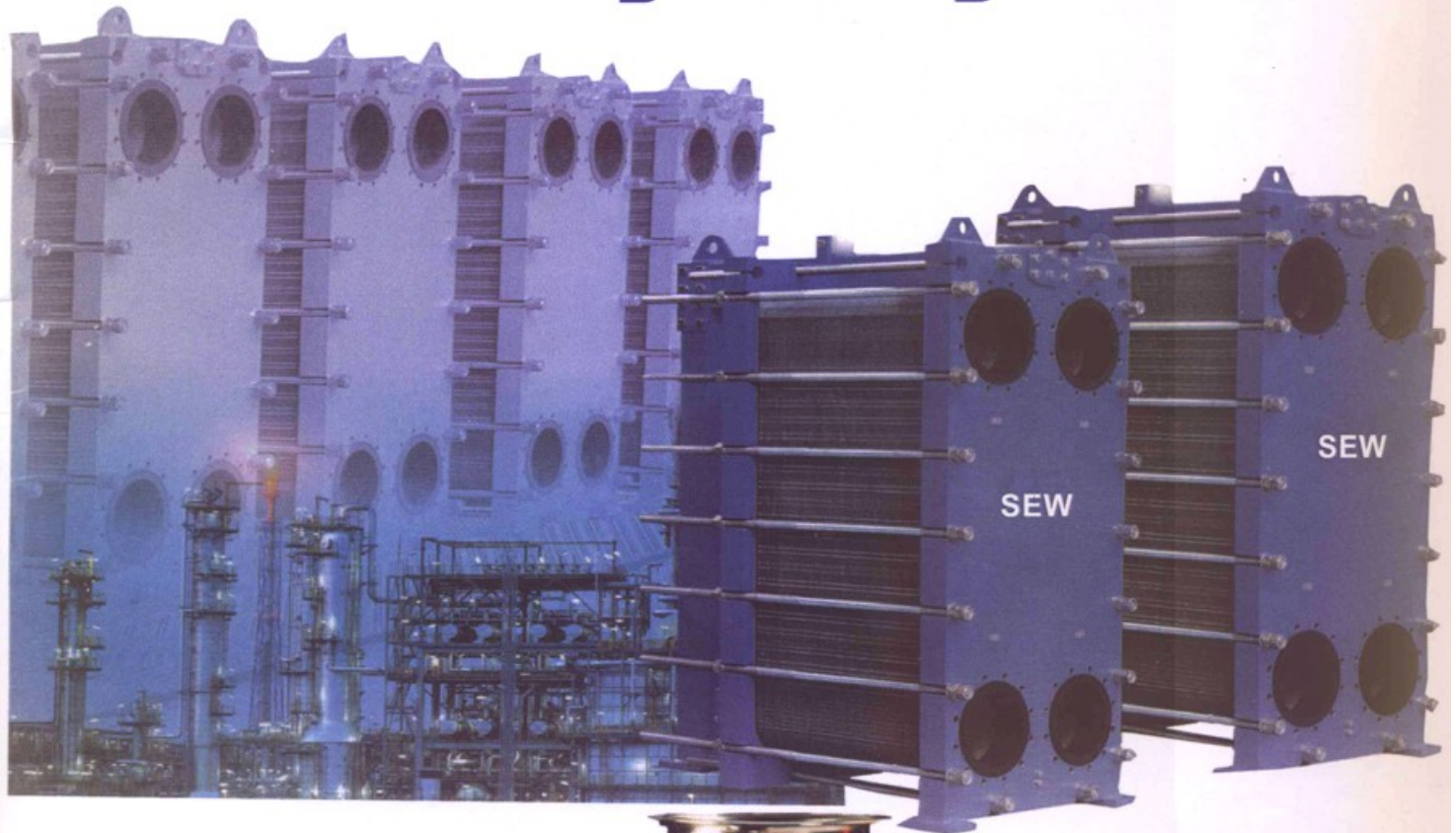




# Shanky

## Engineering Works



Web Site : [www.shanky.in](http://www.shanky.in)  
[www.shankyheatexchangers.com](http://www.shankyheatexchangers.com)  
[www.heatexchangersew.com](http://www.heatexchangersew.com)  
[www.heatexchanger.co](http://www.heatexchanger.co)

We, Shanky Engineering Works, **ISO 9001:2008** certified company Incepted in the year 1994, with the determined objective of offering a high end range of Heat Exchangers such as Plate Heat Exchanger, Phase Change Heat Exchanger, Shell and Tube Heat Exchanger, Fluid Heat Exchanger, Fin Tube Heat Exchanger, Tube Type Heat Exchanger, Heat Recovery unit(HRU), oil coolers, U-Tube Bundle Heat Exchanger, Kettle Type Re-boiler, Shell & Tube Condenser, Shell & Tube Evaporator, intercooler, aftercooler, Marine Steam Condenser, Pressure Vessel, Customised SS Storage Tanks with or without Agitator, Moisture Separator, etc. to a market looking for quality products. We also provide services in the sphere of repairing of these engineering equipment. Having wide domain expertise, we offer complete solution including quality products at affordable price and reliable service. Our young professionals are technically qualified and trained from various institutions. They hold affluent industry experience of 26 years to carry out the assigned task effectively. It is our business policy to make major investments from time to time in development & critical jobs for various industries Under the inspiring guidance of our mentor, Mr. U.C. Dubey, we have been able to make a name for ourselves in the domain. With his rich experience, we have successfully attained a remarkable position in the market.

## PRODUCTS

### PLATE HEAT EXCHANGER

We offer PHEs from port dia ranging from 1 in Dia to 12 In Dia.

We have a stock of more than 30,000 plates MOC SS316L and gaskets of more than 50 models of all leading brands in India.

We offer PHE designs in multiple plate models giving the customer the option to choose the most economical and efficient design.

### WE HAVE STANDARD PHES MODELS FOR THE FOLLOWING PROCESSES

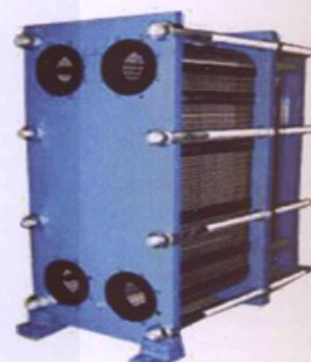
- PHEs for Cooling Hydraulic Oil in Power Packs
- PHEs for Cooling Process Water ( RF heaters )
- PHEs for Hot water generation
- PHEs for Heating / cooling applications of Milk / Juice / Ice Cream Mixes / Cream / Sugar Syrups
- PHEs for Generator Jacket Water cooling
- PHEs for Cooling Quench Oils in Quenching Furnaces
- PHEs for Cooling process water in Wire drawing Industries and many more...

### GASKET MATERIALS

- NBR
- NBR HT
- HNBR
- EPDM
- EPDM HT
- SILICON
- VITON

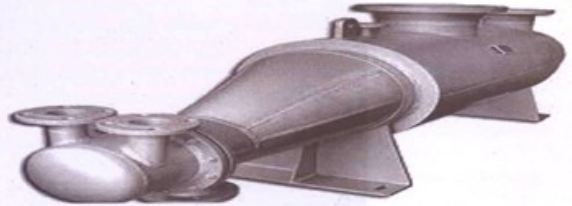
### CONSTRUCTION OF PLATE HEAT EXCHANGER PLATES

- AISI 316
- AISI 304
- SMO 254
- TITANIUM
- HASTELLOY



### KETTLE TYPE REBOILER

Kettle reboilers are very simple and reliable. They may require pumping of the column bottoms liquid into the kettle. In this reboiler type, steam flows through the tube bundle and exits as condensate. The liquid from the bottom of the tower, commonly called the bottoms, flows through the shell side. There is a retaining wall or overflow weir separating the tube bundle from the reboiler section where the residual reboiled liquid (called the bottoms product) is withdrawn, so that the tube bundle is kept covered with liquid.

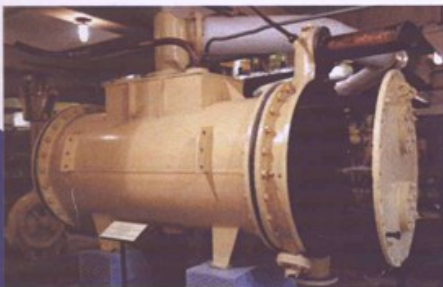


### HRU (HEAT RECOVERY UNIT)

Waste heat found in the exhaust gas of various processes or even from the exhaust stream of a conditioning unit can be used to preheat the incoming gas. This is one of the basic methods for recovery of waste heat. The recovery process will add to the efficiency of the process and thus decrease the costs of fuel and energy consumption needed for that process.

### MARINE STEAM CONDENSER

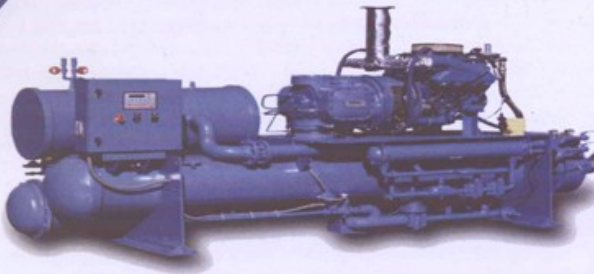
The waste steam produces from different equipments in marine ship; condensate that particular waste steam becomes a distilled water and feed it again in boiler for processing.



### SURFACE CONDENSER

These condensers are heat exchangers which convert steam from its gaseous to its liquid state at a pressure below atmospheric pressure. the purpose of a surface condenser is to condense the exhaust steam and convert the exhaust steam into pure water so that it may be reused in the steam generator or boiler as boiler feed water.

## INDUSTRIAL CHILLER



A chiller is a machine that removes heat from a liquid via a vapor-compression or absorption refrigeration cycle. This liquid can then be circulated through a heat exchanger to cool equipment, or another process stream (such as air or process water).. Industrial chillers are used for controlled cooling of products, mechanisms and factory machinery in a wide range of industries.

### SHELL & TUBE CONDENSER:

The shell and tubes condensers vouch for very high performances with all kind of the commonest refrigerants i.e R22, R134a, R404A, R407C, R507, R410a, R508B. Capacity from 1.3 tons to 221 tons in two pass and 1.1 tons to 176 tons in four pass condenser Heat-exchanger tubes: made of copper or copper nickel (Seawater-resistant design) with newly developed tube geometric and low fouling profile on the coolant side. Detachable, permits mechanical cleaning of the pipes connecting and baffle side are interchangeably



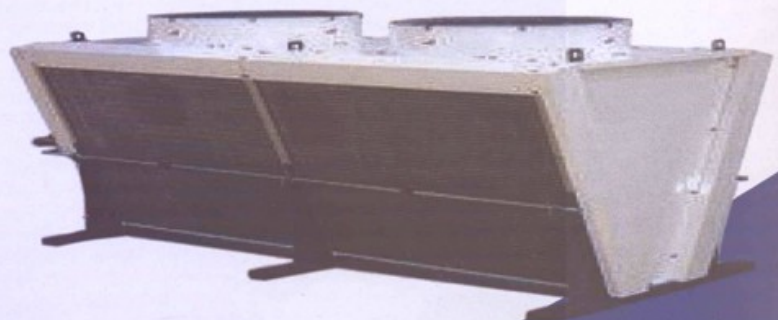
### SHELL & TUBE EVAPORATOR:

Shell & Tube evaporators are used for cooling water or glycol solutions in Water Chillers and production of hot water in heat pumps. These are often referred to as shell & tube evaporators or chillers. a



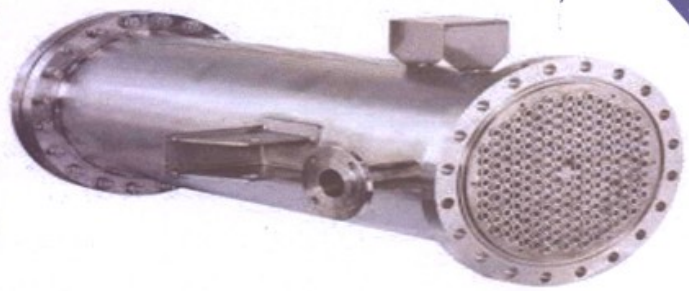
### DRY COOLING TOWER/ COIL COOLER

Dry Cooling Tower is one of the latest model Cooling Tower. It is specially designed with copper or aluminium finned tube to increase the heat transfer area and these towers are particularly designed for water scarce areas.



### **SHELL & TUBE HEAT EXCHANGER:**

Shell & Tube Heat Exchangers are most commonly used in almost all industries like- Refineries, Chemical plants, Fertilizer plants, Genset units, Oil & Gas and Shipping. Typical use of Heat Exchanger is to cool or heat the fluids or gases.

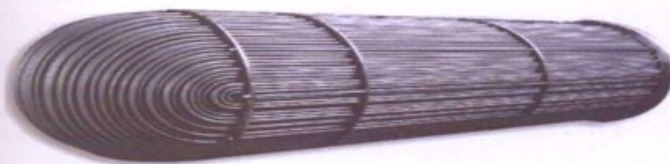


### **HIGH PRESSURE SHELL & TUBE HEAT EXCHANGER :**



When gas is having design pressure more than 50 bar, then it is recommended to design the Heat Exchanger with Gas on Tube Side & water on shell side. It is a removable tube bundle, outside packed floating tube sheet design

### **U TUBE BUNDLE HEAT EXCHANGERS:**



A heat-exchanger system consisting of a bundle of U tubes(hairpin tubes) surrounded by a shell (outer vessel); one fluid flows through the tubes, and the other fluid flows through the shell, around the tubes. we can build "U" tube bundles, straight tube "floating" tube bundles, or we can have fixed tube sheet heat exchangers when the bundles are not removable.

### **OIL COOLERS HEAT EXCHANGERS**

We Shanky Engineering Works Manufacture Oil Coolers Which is Used To Cool Down The Temperature Of Oil Uses In Machinery Like Die Casting, Injection Moulding, Hydraulic Power Pack, Wire Drawing Machine, Etc.



## INTER COOLER

An intercooler is any mechanical device used to cool a fluid, including liquids or gases. These are mainly used in internal combustion engines to improve their volumetric efficiency by increasing intake air charge density through nearly isobaric (constant pressure) cooling.



## AFTER COOLER

Aftercoolers are heat exchangers for cooling the discharge from a air compressor. They use either air or water and are an effective means of removing moisture from compressed air. Aftercoolers reduce the amount of water vapour in a compressed air system by condensing the water vapour into liquid form.

## Moisture Separator

This is the device which separates the moisture from air. separator are an excellent way to reduce moisture in a compressed air system.



## FINNED TUBE HEAT EXCHANGER

Equipments used for heating Air by using Steam Or Thermic Fluid as the heating medium. Finned tubes are used as the heat transferring media to the air. Many combinations of finned tubes can be used as per the requirement, depending on temperature and application

## PRESSURE VESSEL



Pressure Vessels are most commonly used in almost all industries like- Refineries, Chemical plants and Fertilizer plants. These pressure vessels are mainly used as Gas storage, Water storage, Air receivers, Separators, Fuel Tank and Buffer Vessels.

## CUSTOMIZED SS STORAGE TANKS

We are in manufacturing, supplying and exporting quality range of Customized SS Storage Tanks. All our products are precisely developed at our sophisticated infrastructure with the help of advanced techniques and machines.



## OUR PRODUCT RANGE CAPABILITY

PARAMETERS	UNIT	HEAT EXCHANGER
DIAMETER	Meter	3.5
LENGTH	Meter	10
WEIGHT	TON	50
SHELL THICKNESS	Millimeter	Upto 50 Thick
TUBE SHEET DRILLING	Millimeter	Up to 100 Thick
DESIGN TEMPERATURE	Centigrade	-60 to 400 Deg
DESIGN PRESSURE	Bar	Up to 500
HEAT TRANSFER AREA	Square Meters	1 to 1000

## MATERIALS WE HANDLE

MATERIALS HANDLED
90:10 Cu:Ni
70:30 Cu:Ni
Admiralty Brass
Aluminium Brass
CopperBrass
Carbon Steel.

**Any Other Metal According To Customer**

## INDUSTRIES WE SERVE



Textile  
Paints  
Breweries  
Water & Waste Water  
Management  
Pollution Control



Mineral  
Metallurgy  
Refrigeration  
Engineering  
Electronics



Organic Chemical  
Inorganic Chemical  
Petrochemical  
Pharmaceutical  
Food/Fruit Processing



Oil & Fats  
Paper & Pulp  
Pesticide  
Fertilizers  
Soaps & Detergents



Iron & Steel  
Power  
Cement  
Chloro Alkalies  
Gelatin



Oleoresin  
Starch  
Plastic  
Rubber  
Distillery

## OUR CUSTOMERS

### Why Choose Shanky Engineering Works

- One Stop Shop for all Heat Exchanger solution
- Smooth tube Heat Exchanger
- Corrugated Tube Heat Exchanger
- Innovative Technology
- Application Engineering
- Customised Solution
- Quality Heat Transfer solution ensuring sustainability with a competitive Edge.



Contact us :

## SHANKY ENGINEERING WORKS

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Please feel free to contact us. Warm and Healthy Regards