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*Shell & Tube H/E*



**PREMIER**

# Premier Engineering Works

**HEAT EXCHANGERS | OIL & GAS COOLERS | INTER/AFTER COOLERS | COOLING COILS/COOLING TOWERS | CONDENSERS/CHILLERS | EVOPARATORS | RADIATORS**

Premier Engineering Works had its inception in the Year 1986 and Alfa Radiators in 2001 to manufacture and supply Heat Exchangers, Coolers, Radiators, Condensers, Chillers and Evaporators for Heavy Engines, Earth Moving Equipments, Automobiles ,Air compressor Units and Plants etc...

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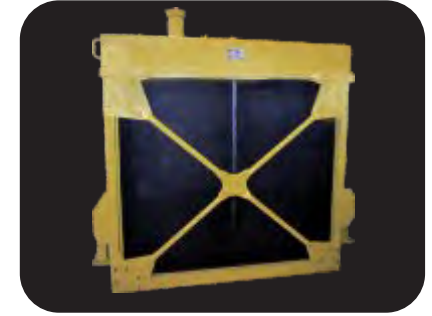
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**ABOUT US**

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We are equipped with experienced R&D and Engineers for our Product developments. Our Products will be engaged in perfect inspection and testing processes right from initial stage to finishing stage as per Quality Standards. Hence we are proud that our products ensure International Standards.

We are OEM suppliers to Indian Railways, Defence etc for Coolers and Radiators.

We have a well equipped manufacturing units that comprises state of the art technology.

**APPLICATIONS:**

- ☛ Thermal Power Plants
- ☛ Steel Plants
- ☛ Petrochemical Plants
- ☛ Nuclear Power Stations
- ☛ fertilizer Plants
- ☛ Diesel Power Stations
- ☛ Chemical Plants
- ☛ Textile Machineries
- ☛ Tyre Manufacturing Units
- ☛ Food Products
- ☛ Gas Power Stations
- ☛ Hydro Electric Projects
- ☛ Heavy Electrical Industry
- ☛ Cement & Mining Industries

**PRODUCT RANGE:**

- ☛ Heat Exchangers
- ☛ Oil & Gas Coolers
- ☛ Inter/after Coolers
- ☛ Cooling Coils/Cooling Towers
- ☛ Condensers/chillers
- ☛ Evaporators
- ☛ Radiators



QUALITY CONTROL 

We have a well-defined Quality Control process that is structured to meet the international benchmarks of Quality.

As a customer oriented organization, we pay utmost importance to the quality. We implement quality checks at every stage of manufacturing process as per quality standards and focus on utilizing the best material from most reliable suppliers. All our Products undergo the following types of tests that ensure their quality & safety

Also we have outsourcing facilities for the following

- Vibration testing
- Pressure cycle testing
- Heat performance testing
- Temperature cycle testing
- Radiography
- Hardness
- Dye Penetrant
- Approved Third Party Inspections (Lloyds, Rites, TUV etc)



## HEAT EXCHANGERS

Shell &amp; Tube Heat Exchanger

Air Cooled Heat Exchanger

Wire Finned Heat Exchanger

Marine Heat Exchanger

Plate Fin Heat Exchanger

'u' Tube Heat Exchanger

Straight Tube Bundles

## Shell &amp; Tube Heat Exchanger

"Shell & Tube Heat Exchangers" which are the most widely and commonly used Heat Transfer Equipment in Petrochemical, Pharmaceutical, Oil & Gas, Power Generation Industries and Cement industries

"Premier" Shell & Tube Heat Exchangers are the product of a team which has extensive process fundamental knowledge attained through years of practical and operational experience. Each of our manufactured Heat Exchanger is warranted for long trouble free performance with minimal maintenance.

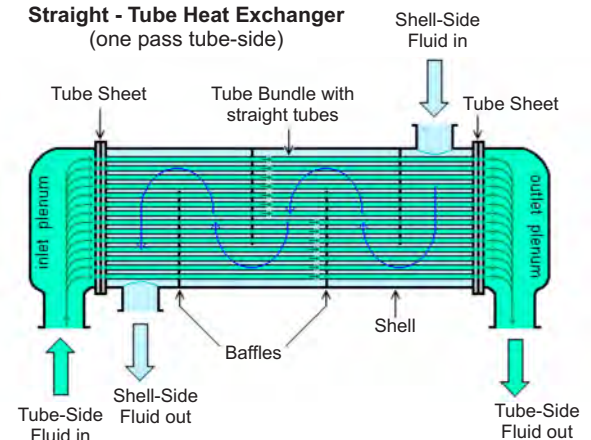
"Premier" Shell & Tube Heat Exchangers are built in a wide variety of size and metallurgy as per customer's requirement.

Length can vary from 0.5 meter to 20 meters & Diameter can be very from 0.15 meter to 2.0 meters.

The design and test pressure can be upto 150 Kg/Cm<sup>2</sup>G.

Also the metallurgy offered includes materials like Copper, Admiralty Brass, Naval Brass, Cupro Nickel, Other than the most commonly used various Carbon Steel and Stainless Steel Grades.

The Heat Exchangers are fabricated in accordance with TEMA / ASME / API & ASHARE Standard requirements. Heat Exchangers for Sea Water Marine applications with, Brass and Cupro-Nickel construction designed & offered as per customer specific requirements.



ENQUIRY

## HEAT EXCHANGERS

Shell &amp; Tube Heat Exchanger

Air Cooled Heat Exchanger

Wire Finned Heat Exchanger

Marine Heat Exchanger

Plate Fin Heat Exchanger

'u' Tube Heat Exchanger

Straight Tube Bundles

## Air Cooled Heat Exchanger

**Air Cooled Heat Exchangers** are constructed by Tubes & Fins so that the hot process fluid to be cooled flows through a tube while the cooling air flows across the outer surface to remove heat. The cooling air is propelled by fans in either a forced draft or induced draft configuration.

These Heat Exchangers can be Cover Plate / Plug Box and pipe bend models.

MOC:

**Tube materials**

carbon or low alloy steel  
stainless steel, copper  
copper alloys, nickel alloys.

**Fin materials**

Carbon steel, Stainless Steel  
Aluminum, Copper



ENQUIRY

## Wire Finned Heat Exchanger

Fins are basically external surfaces on tube for increasing the surface area of the bare tube, resulting in a compact Heat Exchanger.

The method of attaching the fins over tube is of prime importance, since even a slightest air gap between the tube and fins will defeat the whole purpose of fins over the tube.

Considering the above facts Premier has indigenously designed and developed a special purpose tube fining machine capable of producing finned tubes.

Finned tubes are able to even out the heat transfer between the inside of the tube and the outside. When the heat transfer coefficient on the outside of the tube is significantly lower than the heat transfer coefficient on the inside of the tube, there is a major advantage to incorporate fins on the outside tube surface to take full advantage of the high heat transfer rate on the inside of the tube.



ENQUIRY



## HEAT EXCHANGERS

Shell &amp; Tube Heat Exchanger

Air Cooled Heat Exchanger

Wire Finned Heat Exchanger

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Plate Fin Heat Exchanger

'u' Tube Heat Exchanger

Straight Tube Bundles

## Marine Heat Exchanger

Marine Heat Exchanger is the universal way to cool a boat's engine, using the lake, river or ocean water in which the boat floats. The water-antifreeze mixture runs throughout the Heat Exchanger dumping heat, but remaining separate from corrosive salts and chemicals found in the water the boat is floating in. Heat from the water-antifreeze mixture is then transferred to the ocean (or lake or river) water, which flows, into a Heat Exchanger. Since this water may be corrosive a sealed mixture of distilled water and antifreeze may cool the engine. If the ocean water eventually corrodes and ruins the Heat Exchanger it can be replaced at a fraction of the cost of replacing the engine.

To protect the Marine Heat Exchanger from corrosive salts, a sacrificial zinc anode is screwed into the Heat Exchanger. This anode must be occasionally replaced as part of regular maintenance. This filter have to be periodically cleaned or else the flow of water to the Heat Exchanger will become obstructed and the engine will overheat.



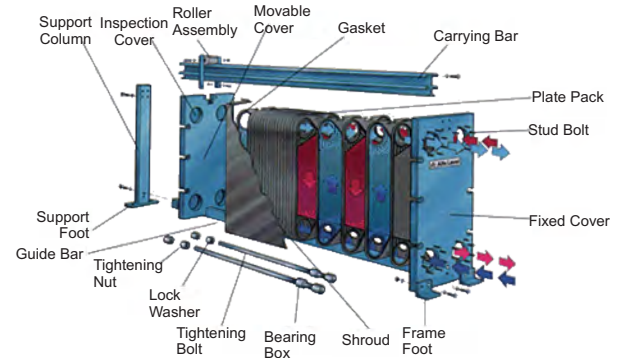
ENQUIRY

## Plate Fin Heat Exchanger

A plate-fin heat exchanger is prepared of layers of corrugated sheets alienated by flat metal plates, typically aluminum, to generate a series of finned chambers. Separate hot and cold fluid streams flow through alternating layers of the heat exchanger and are enclosed at the edges by sidebars. Heat is transferred from one stream through the fin interface to the separator plate and through the next set of fins into the adjacent fluid. The fins also serve up to increase the structural integrity of the heat exchanger and permit it to withstand high pressures while providing an extended surface area for heat transfer.



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## HEAT EXCHANGERS

Shell &amp; Tube Heat Exchanger

Air Cooled Heat Exchanger

Wire Finned Heat Exchanger

Marine Heat Exchanger

Plate Fin Heat Exchanger

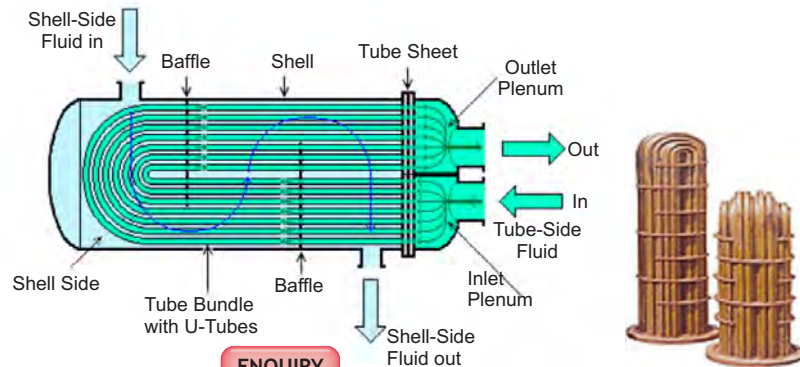
'u' Tube Heat Exchanger

Straight Tube Bundles

## 'u' Tube Heat Exchanger

The U Tube bundle heat exchanger is the most common type of heat exchanger in all Industries. Mostly used in higher-pressure and Higher Temperature applications. In nuclear power plants called pressurized water reactors, large heat exchangers called steam generators are two-phase, shell-and-tube heat exchangers which typically have U-tubes. They are used to boil water recycled from a surface condenser into steam to drive a turbine to produce power.

## U-Tube Heat Exchanger



ENQUIRY

## Straight Tube Bundles

Premier supplies Tube Bundles for all types of coolers suit to Compressors, DG Set, Bearings etc. Our replacements meet / exceed the original OEM quality & specifications & performance.



ENQUIRY

## OIL COOLERS

## Shell &amp; Tube Type

Hydraulic Oil Coolers have been manufactured by Premier since 1981, using an established design combining high performance with durability and reliability.

A choice of Copper or 90/10 Cupro-Nickel Tubes.

Naval brass tube plates.

Extruded aluminium shell

Cast aluminium shell

Cast iron headers.

Nitrile seals. (Viton seals are available for applications where operating temperatures > 100°C)

For Hydraulic Oil Coolers operating in more demanding environments, We can also manufacture oil cooler using Stainless Steel and Carbon Steel.



ENQUIRY

## Air Cooled Type

Premier offers Fin & Tube type Oil Coolers to cool Transformer Oil, Lube Oil, Tempering Oil etc. Oil is cooled in tubes using ambient air with the help of fan & motor.



ENQUIRY

## Air Blast Oil Cooler

An air blast cooler is a heat exchanger. But, unlike a water heat exchanger which uses water as the cooling medium, an air blast cooler uses free ambient air as its cooling medium. Made up of a radiator fan and motor, oil or water is passed through the radiator and the ambient air is blown over the matrix, transferring the heat from the oil or water to the ambient air.

Installing an air blast cooler ensures the temperature of the oil never exceeds its optimum working temperature.

Air blast coolers can be installed almost anywhere, particularly in locations where water is not available or is too expensive to consider in today's climate. We are manufacturing Gas Coolers also.

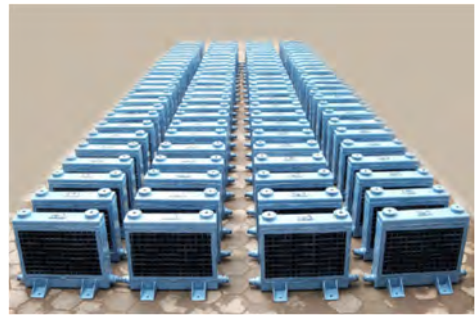


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**INTER/AFTER COOLERS**

**Inter / After Coolers**

Premier offers Shell & Tube type and Fin & Tube Type Inter / After Coolers for use in multistage compressed air systems. These are available in standard horizontal / vertical models, with or without built in Moisture Separators. These are available from 30 CFM to 10,000 CFM. These are designed at 7 Kg per sq. cm gauge or as specified by client. For Inter / After Coolers of higher capacities at different pressures please contact us.

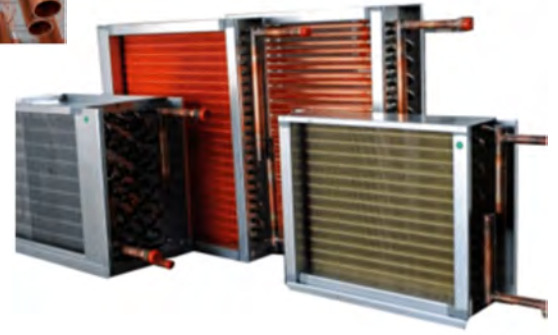


ENQUIRY

**Cooling Coils**

**COOLING COILS**

Coils for Heating, Cooling, and Heat Recovery can be manufactured to almost any size using 1/2" or 5/8" o.d copper tubes with aluminium or copper fins and galvanized or stainless steel casings for duct or ahu mounting.



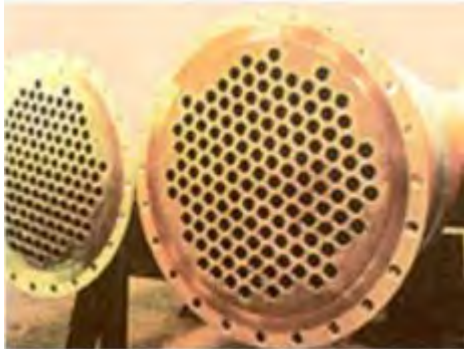
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## CONDENSER/CHILLER

## Water Cooled Condensers

Premier offers cleanable Shell & Tube Integrally Finned Water Cooled Condensers from 3TR to 200TR capacity. These Condensers are built in a wide variety of sizes from 6 inch to 24 inch in diameter. Length vary from 3 feet to 20 feet over the tube heads. The Condensers are designed for a pressure of 20 Kg per sq.cm gauge on shellside and 7 Kg per sq.cm gauge on water side.

They are tested upto 28 Kg per sq.cm gauge on the shell side & 10 Kg. per sq.cm gauge on water side. The Condensers are fabricated as per TEMA / ASME unfired pressure vessels codes & ASHRAE standards requirements. Condensers for sea water marine application or with steels shells are also offered & designed as per customer specific requirements.



ENQUIRY

## Air Cooled Condensers

Premier offers Fin & Tube, Air Cooled Condensers from 1TR to 260TR capacity. These Condensers are designed for an optimum combination of high heat transfer performance & low operating cost. The staggered tube, corrugated plate fin provides a highly efficient air flow pattern through the condenser. Copper tubes are mechanically/ hydraulically expanded assures maximum fin-tube bonding for optimum heat transfer.

Air Cooled Condensers are tested at 28 Kg per sq. cm gauge with dry nitrogen. Fin & Tube type Condensers for sea water marine application or with steels shells are also offered & designed as per customer specific requirements.



ENQUIRY

COOLING TOWER 

DRY Cooling Tower

FRP Cooling Tower

Wooden Type Cooling Towers

Cross Flow Cooling Tower

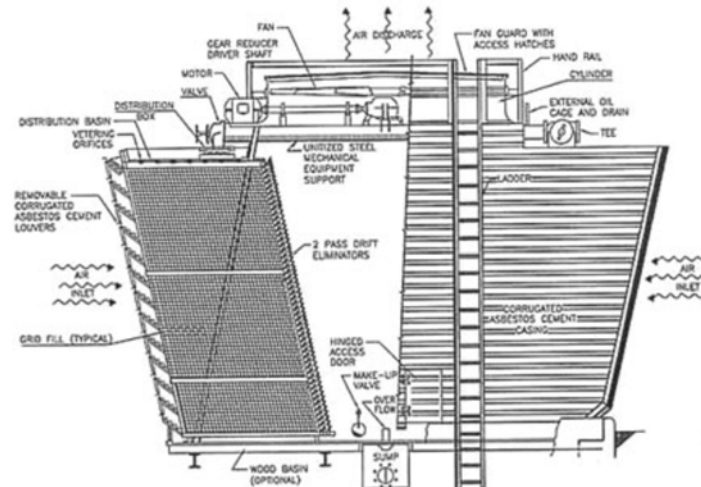
A cooling tower is a heat exchanger, inside of which heat is withdrawn from the water by contact between the water and the air. The heat transfer occurs through the heat exchange between air and water and through the evaporation of a small part of the water that needs to be cooled. This will allow to cool down to a temperature lower than the ambient temperature, which is an important advantage compared to dry coolers

**DRY Cooling Tower**

DRY Cooling Tower is used for Diesel Gensets, Air Compressors, Injection moulding machines, Rubber and Tyre Industries, Distilleries, Sugar mills, Fertilizer Plants and Petrochemicals.

**Advantages**

- Cooling Tower is not required
- Heat Exchanger is not required
- Water Treatment Plants is not required
- No Water loss
- No scale of forming problem
- Power saving
- Maintenance cost is very very low
- Low cost and Higher Efficiency

ENQUIRY 

## COOLING TOWER

## FRP Cooling Tower

FRP Cooling Tower is used for all types of industries to cool the recycle water flow. Round Shape will give very good appearance and 100% cooling efficiency. The rotary sprinkler gives uniform water flow over the wet deck Fills and gives maximum of cooling efficiency. Cooling Towers of capacity 10TR to 1000TR with salient features like Low noise, Compact Design and Light weight. All MS supports are Hot Dip Galvanized duly epoxy coated. Axial flow fan dynamically balanced with motor body epoxy coated. Totally corrosion resistant construction.



ENQUIRY

## Cross Flow Cooling Tower

Cross Flow Cooling towers is one of the low maintenance, High efficiency Cooling tower because you can easily clean the fans while the tower is in operation and also the power consumption is very very less.



ENQUIRY

## DRY Cooling Tower

## FRP Cooling Tower

## Wooden Type Cooling Towers

## Cross Flow Cooling Tower

## Wooden Type Cooling Tower of capacity from 10 TR to 500 TR

## Salient features :

Heavy duty heat transfer system with easy mechanism.

Water losses is completely controlled by louvers.

Tapered base and bottom most level water outlet confirm the last drop to exist easily.

Roofing to safeguard motor and fan complete assembly.

Attractive compact design.

All Woods are chemically treated well and water proof sheets are seated and constructed well.

High cooling efficiency is giving by Honey comb type PVC Fills.

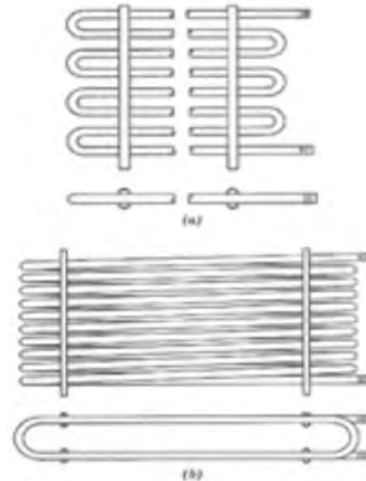


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EVAPORATOR 

Premier is one of the most experienced manufacturers of multiple effect evaporators in India for dairy, food processing and chemical industries. We developed energy efficient evaporators indigenously and in a short span of its existence has become a brand to reckon with.

- Bare Tube Evaporator
- Finned Evaporator
- Shell & Tube Type Evaporator
- Plate Type Evaporator

[ENQUIRY](#)

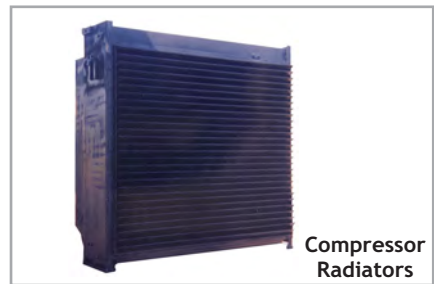
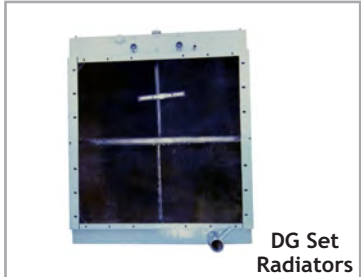


**RADIATORS** 

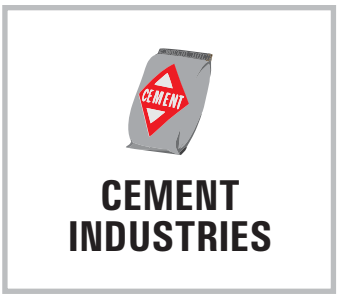
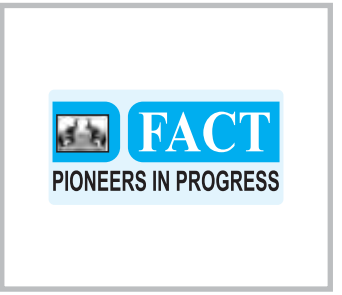
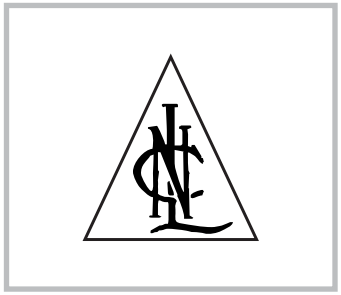
We have a separate unit for Radiators. Our range of radiators are crafted from copper fin & brass tube that provides good corrosion resistance characteristics and fine durability against mechanical and thermal shocks.

We are manufacturing more than 150 radiators having application in Passenger cars, Tractors, SUV, MUV, LCV, HCV and Generators. We use best in class raw materials from reputed suppliers and our radiators undergo stringent quality and performance tests to get a product of highest quality. We are major after market player in radiators and also work with OEM's in automotive, tractor and diesel generator segment.

[ENQUIRY](#)



## CLIENTELE



**PREMIER****PREMIER ENGINEERING WORKS****Mr. B. V. Thanggavelu (Managing Director)****No. 4/23 - E, Lakshmi Nagar, Edayarpalayam Pirivu, Kuniyamuthur Post****Coimbatore - 641008, Tamil Nadu, India****☎ + (91)-(422)-2252917 | + (91)-(422)-2670405 | + (91)-(422)-2679030****Fax: + (91)-(422)-2251628 | + (91)-(422)-2670404****☎ + (91)-9843042215 | + (91)-9047042214 | + (91)-9047042217****✉ premiercbe@vsnl.net****SEND A MAIL . . .****Name****Designation****Company Name****Mail ID****Phone No****Requirements**