



JC Equipments Pvt. Ltd



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JC Equipments Pvt. Ltd

Technically Driven Heat Exchangers





Profile

JC is the leading ISO-9001-2008 certified, ASME U & S Stamp Authorized Designer, Manufacturer and Exporter of Industrial Cooling Towers and Heat Exchangers since 1989 & also we are a Corporate member of CTI, USA.

Our company was established at Coimbatore, India during the year 1989. With our dedicated efforts in successfully satisfying our customers, we emerged as market leaders in Heat Exchangers, Cooling Towers within a span of 21 years. We are committed to deliver superior quality Equipments that meet international standards for all range of industries as well.

Our approach to satisfy a wide range of customers includes, regular revamp of our products, providing customized solutions, recalculating Heat Exchangers, Cooling Towers so as to constantly catch up with the emerging technologies.

We have the state of art infrastructure catering individual shop floor for each department like Administration, Finance, Accounts, Design, R&D, Marketing, Purchase, Planning, Production, Quality Control, Stores and Dispatch. We take good efforts to upgrade the expertise of our people in the latest technical trends. Our factory layout and extremely skilled manpower guarantees products that speak world class quality.

Vision

- Promoting our product world wide
- Appointing Authorized dealers in major countries
- 24X7 customer care service

Mission

- Supplying High Efficiency Heat Exchangers & Cooling Towers with latest Design Technology.
- Assured Quality & performance
- Best pricing
- Prompt Dispatch

We Specialize in :

- SHELL AND TUBE HEAT EXCHANGER
- DOUBLE PIPE HEAT EXCHANGER
- FINNED TUBE HEAT EXCHANGER
- AIR COOLED HEAT EXCHANGER
- MARIN HEAT EXCHANGERS
- WATER COOLED OIL COOLER
- U TUBE BUNDLES
- RE BOILERS
- ALL KIND OF PRESSURE VESSELS
- PLATE TYPE HEAT EXCHANGER

- FRP COOLING TOWERS BOTTLE SHAPE
- FRP COOLING TOWERS SQUARE SHAPE
- FRP COOLING TOWERS SEAMLESS
- TIMBER COOLING TOWERS
- RADIATOR TYPE DRY COOLING TOWERS
- NATURAL DRAFT COOLING TOWERS
- CLOSE CIRCUIT COOLING TOWERS
- ALL TYPES OF COOLING TOWER SPARES



Quality Policy

- In manufacturing products that enhance customer expectations by quality, timeliness and cost,
- in providing effective and prompt service so as to achieve total customer satisfaction at all times,
- in continually upgrading our quality, communication and the skill sets to meet customer requirements efficiently,
- in abiding by statutory and legal requirements for our activities.

Quality Certificates



Testing & Quality control

Manufacturing products that Enhance customer Expectations by

- Quality
- Timeliness
- Cost

- | Providing Effective and prompt service to achieve customer satisfaction.
- | Continuously Upgrading Quality and Technology



Products

[Shell And Tube Heat Exchanger](#)

[Double Pipe Heat Exchanger](#)

[Finned Tube Heat Exchanger](#)

[Air Cooled Heat Exchanger](#)

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[U Tube Bundle Heat Exchanger](#)

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Products | Shell And Tube Heat Exchanger |

A shell and tube heat exchanger is the most common type of heat exchanger in all Industries. Mostly used in higher-pressure and Higher Temperature applications.

This Type of Heat exchangers are having two divisions one is shell and other is Tubes. Here One fluid runs through the tubes, and another fluid flows over the tubes (through the shell) to transfer heat between the two fluids. For this purpose seamless/ERW or Rolled pipes are used for shell. And Seamless tubes are used for Tubes.

Types of Shell and Tube heat exchangers

- Fixed-Tube Sheet Design.
- Full-Through Floating-Head Design.
- Tubes can be 'U' bundle.
- Split-Ring Floating-Head Design.
- Bayonet Tube Design

Application of Shell and Tube heat exchangers

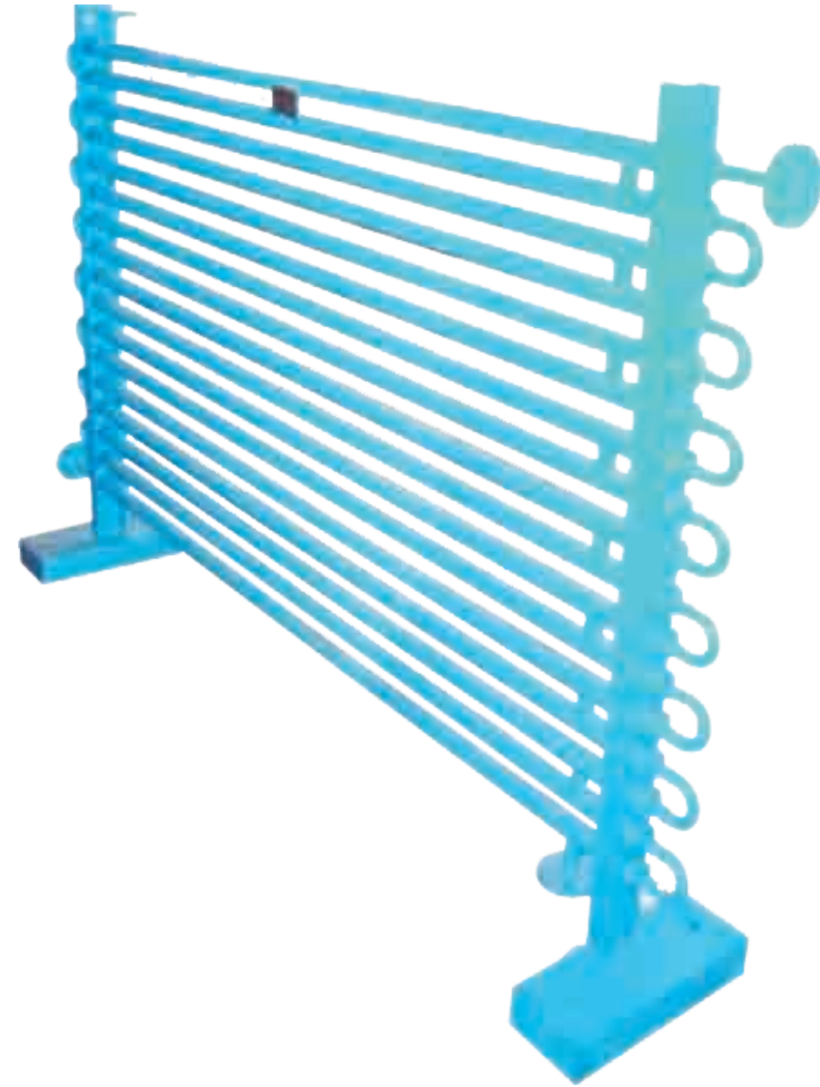
1. Power Plants - Condensers, Pre Heaters, Waste water treatment
2. Oil Refineries – Inter cooling Purpose, Re Processing Purpose,
3. Manufacturing Industries – Oil coolers for :
 1. Quenching Oil
 2. Lubrication Oil
4. Offshore Industry :
 1. Water Makers,
 2. Condensers
5. Nuclear Power Plants - Chillers and Water Coolers
6. Food and Dairy Industries
7. Refrigeration systems
8. Pulp and Paper Industries
9. Wine-brewery industry
10. plastic and Fertilizers Industries





Products | Double Pipe Heat Exchanger |

Double Pipe Heat Exchangers A double pipe heat exchanger is one of the simplest form of Shell and Tube Heat Exchangers – Here, just one pipe inside another larger pipe. One fluid flows through the inside pipe and the other flows through the annulus between the two pipes. The wall of the inner pipe is the heat transfer surface. To make an Unit very Compact, The Arrangement is made Multiple Times and Continues Serial and Parallel flow. This is also called as a hairpin heat exchanger. These are may have only one inside pipe, or it may have multiple inside tubes, but it will always have the doubling back feature shown. In some of the Special Cases the Fins also Used in Tube side.



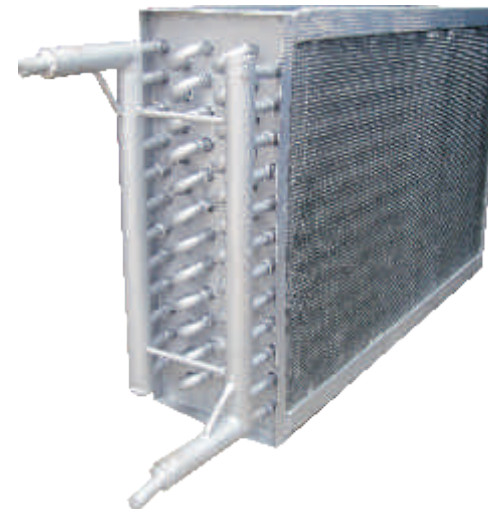


Products | Finned Tube Heat Exchanger |

Finned Tube Heat Exchangers (FTHE) /Air Fin Coolers:
Method of Heat Transfer :

An Finned Tube heat exchanger, is simply a pressure vessel which cools a circulating fluid within finned tubes by forcing ambient air over the exterior of the tubes. Also, This is known as device for rejecting heat from a fluid directly to ambient air. The main advantage of an FTHE is that it does not require water, which means the plants requiring large cooling capacities are need not be located near a supply of cooling water.

Finned Tube heat exchanger are generally used where a process system generates heat which must be removed, but for which there is no local use. Also This is One of the simplest ways is to use the ambient air.



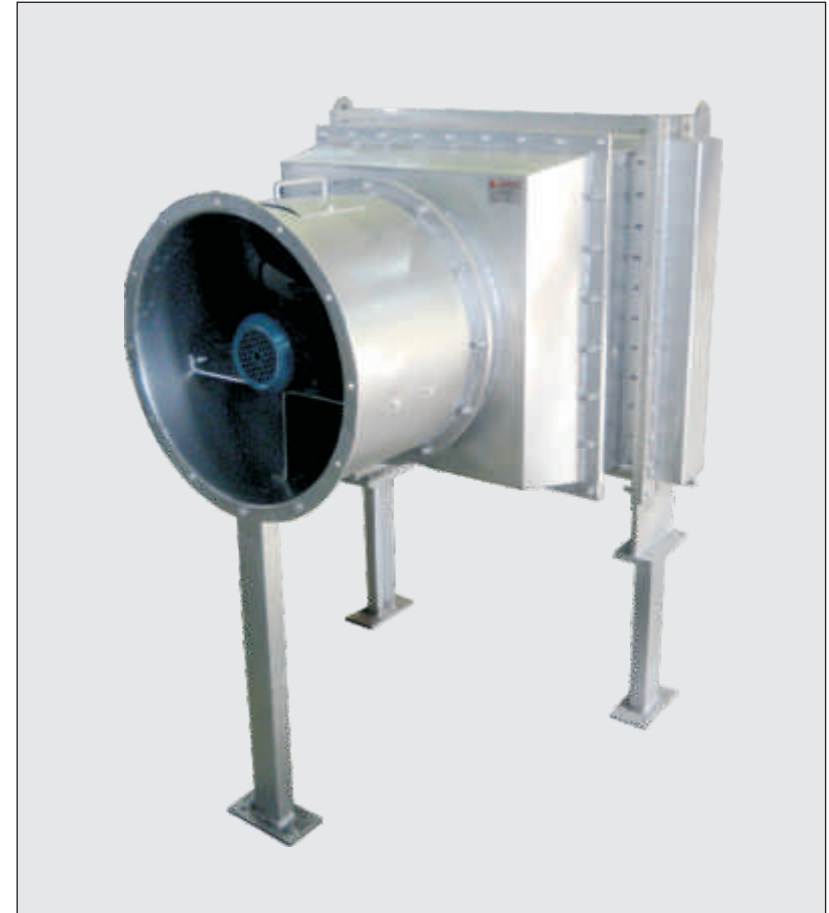


Products | Air Cooled Heat Exchanger |

Air cooled heat Exchangers are same In the Functions of Finned Tube Heat Exchanger. This type of Heat Exchangers is specially used in Large Quantity cooling Requirements. We are main Suppliers Air cooled Heat Exchangers for Oil Refineries and Process Fluid Cooling.

Types of Air cooled Heat Exchangers:

1. Forced DraftACHE :
2. Induced DraftACHE





Products | Plate Type Heat Exchanger |

A plate type heat exchanger is a type of heat exchanger that uses metal plates to transfer heat between two fluids. This has a major advantage over a conventional heat exchanger in that the fluids are exposed to a much larger surface area because the fluids spread out over the plates. This facilitates the transfer of heat, and greatly increases the speed of the temperature change. It is not as common to see plate heat exchangers because they need well-sealed gaskets to prevent the fluids from escaping, although modern manufacturing processes have made them feasible.

The concept behind a heat exchanger is the use of pipes or other containment vessels to heat or cool one fluid by transferring heat between it and another fluid. In most cases, the exchanger consists of a coiled pipe containing one fluid that passes through a chamber containing another fluid. The walls of the pipe are usually made of metal, or another substance with a high thermal conductivity, to facilitate the interchange, whereas the outer casing of the larger chamber is made of a plastic or coated with thermal insulation, to discourage heat from escaping from the exchanger. The plate heat exchanger (PHE) was invented by Dr Richard Seligman in 1923 and revolutionized methods of indirect heating and cooling of fluids.

Features

- **Superior thermal performance**
- **Availability of a wide variety of corrosion resistant alloys.**
- **Ease of maintenance**
- **Expandability and multiplex capability.**
- **Compact design**

The advantages that exist with the use of plate heat exchangers are as follows:

- 1) The heat transfer coefficient of the plates is very high. This is because the plates are very thin, have a large surface area, and contain flow that is turbulent. With a high heat transfer rate the exchanger will be more efficient.
- 2) The operational and maintenance costs are low due to low start up costs, high efficiency, low space requirement and ease of cleaning.
- 3) Due to the design of the double gasket, the chance of the two substances mixing is low.
- 4) Plates can be easily added or removed depending on the desired application.
- 5) The equipment is relatively low weight since it is not designed to hold large amounts of the substances at one time.

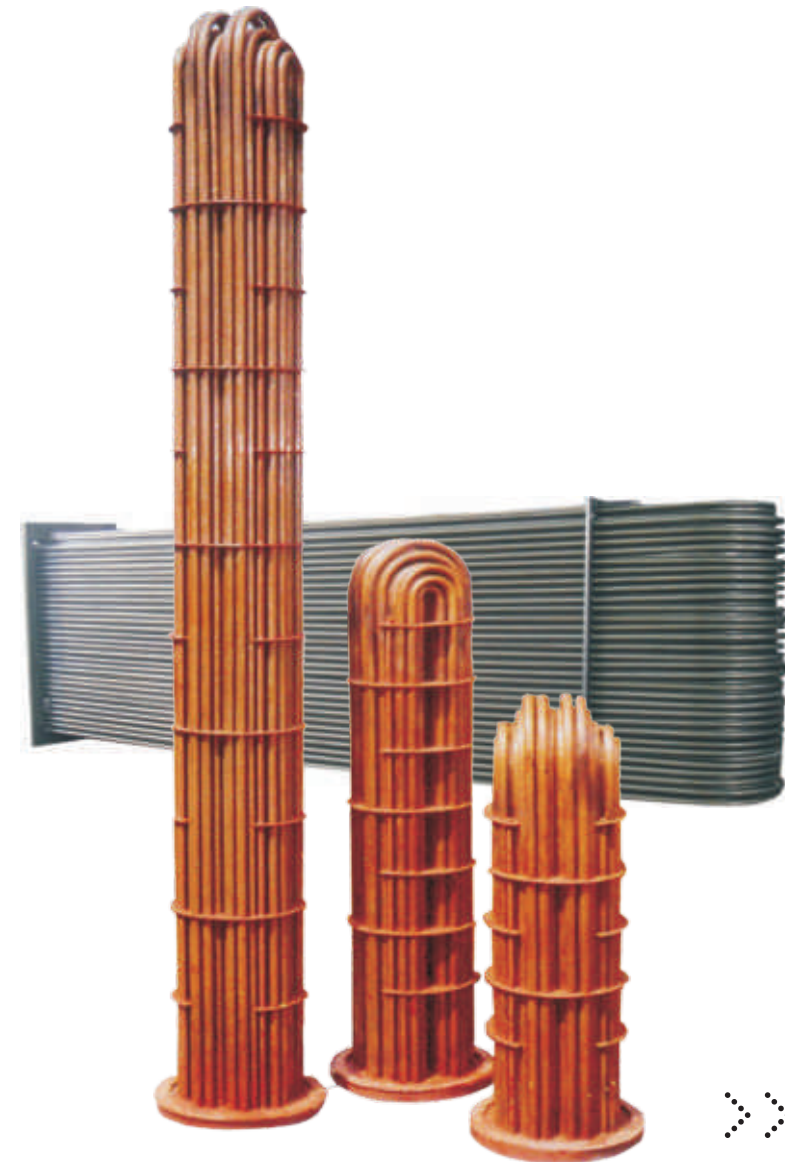




Products | U Tube Bundle Heat Exchanger |

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. Most shell-and-tube heat exchangers are either 1, 2, or 4 pass designs on the tube side. This refers to the number of times the fluid in the tubes passes through the fluid in the shell. In a single pass heat exchanger, the fluid goes in one end of each tube and out the other.

In Offshore Industries, Water Makers are made up of U tube Heat Exchangers. To Maintain the Lower Pressure Drop in High Tube Length. 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. Most shell-and-tube heat exchangers are either 1, 2, or 4 pass designs on the tube side. This refers to the number of times the fluid in the tubes passes through the fluid in the shell. In a single pass heat exchanger, the fluid goes in one end of each tube and out the other.





Products | Re Boilers |

A reboiler is a heat exchanger that is used to generate the vapor supplied to the bottom tray of a distillation column. The liquid from the bottom of the column is partially vaporized in the exchanger, which is usually of the shell-and-tube type. The heating medium is most often condensing steam, but commercial heat-transfer fluids and other process streams are also used. Boiling takes place either in the tubes or in the shell, depending on the type of reboiler. Exchangers that supply vapor for other unit operations are referred to as vaporizers, but are similar in most respects to reboilers.





Products | Marine Coolers |

Marine Coolers are the most common way to cool a boat's engine, using the lake, river or ocean water in which the boat floats. Since this water may be corrosive the engine may be cooled by a sealed mixture of distilled water and antifreeze. Heat from the water-antifreeze mixture is then transferred to the ocean (or lake or river) water which flows into a heat exchanger. The water-antifreeze mixture runs through the heat exchanger dumping heat, but remaining separate from corrosive salts and chemicals found in the water the boat is floating in. 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 periodically replaced as part of regular maintenance.





Products | Oil Coolers |

We are proud to introduce ourselves as one of the leading Industrial Oil Cooler Manufacturers from India. We have outstanding information and communication technologies that have made us one of the top notch air Oil Cooler and engine oil cooler manufacturers in India. Our hi-tech plant and use of best quality raw materials help us to generate oil cooler that are industry benchmark of innovation and quality. We are flawless in our efforts to provide uninterrupted services to our clients and this had made us one of the revered oil cooler exporters from India.

We produce Hydraulic Oil Coolers which are packed floating head type in general and are suitable for figment of the return line of a Hydraulic oil system. The hydraulic oil coolers designed by us are used extensively in power packs, presses, dredgers, plastics injection equipment and a number of other hydraulic systems.

Application

Diesel Engines

Marine

Plastic Machinery

Hydraulic Power Packs

Other Industrial applications





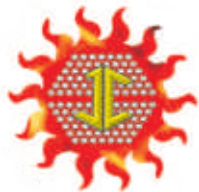
JC Equipments Pvt. Ltd



An ISO 9001 : 2008 Certified Company

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JC Equipments Pvt. Ltd

Carefully Engineered Cooling Systems





Products

FRP Cooling Towers

Dry Type Cooling Towers

Timber Cooling Towers

Natural Draft Cooling Towers

RCC Cooling Towers

Closed Circuit Cooling Towers



Products | FRP Cooling Towers |

FRP Bottle Shape Cooling Towers

The **Round Shape FRP** (Fiber glass Reinforced Plastic) **Cooling Tower** also called as **Bottle Shape Cooling Tower** . The casing and basins are designed to withstand severe vibration, high wind load and to resist corrosion. The **Cooling Tower** consists of Honey comb PVC fills and eliminators in a design that maximizes economy and efficiency and directly driven fan and Motor 'Minimum drift Losses' . Uniform distribution of hot water by rotating arm sprinkler. Hot dipped Galvanized hardware to withstand wind forces. The **bottle shape** makes possible to provide maximum cooling efficiency in minimum plan area with lower energy consumption.

FRP Square Type Cooling Towers

The Square Shape Cooling Towers designed especially for an alternative to round model for selection to our buyers. The Cooling Tower consists of Honey comb PVC fills and eliminators in a design that maximizes economy and efficiency & directly driven fan & Motor with spray Nozzles 'Minimum drift Losses. Hot dipped Galvanized hardware with rectangular casing body with elegant design.

FRP Seamless Cooling Towers

We Design & Manufacture a comprehensive Seamless Cooling Tower here in India, our designing peoples concentrate much more to develop these kind of Seamless Cooling Towers as per our buyers requirement that have a single piece shell. There are no seems, panels, rivets or plenty of fasteners in this Seamless Cooling Towers and with no compromise of Quality, Competitive price & Elegant look. Contact us for more information on our Seamless Cooling Towers.





Products | Dry Cooling Towers |

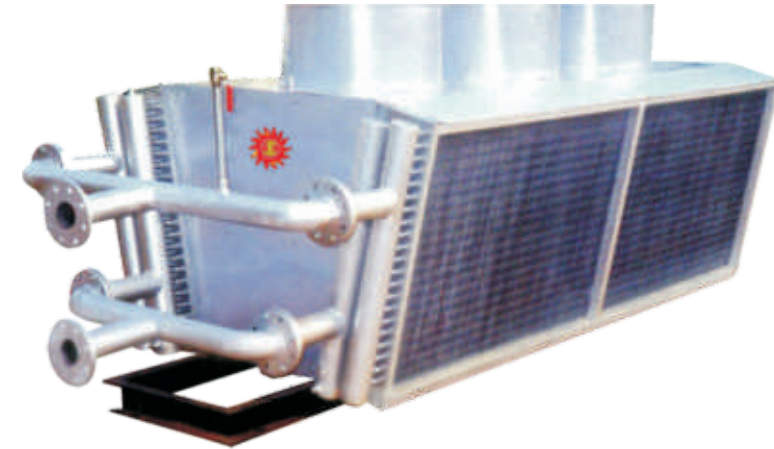
Dry Cooling Towers functioning in combination of extended sine wave finned surface heat transfer coils, with axial flow fans and rigid construction for regular operation. The hot water from any equipment can be sent to the inlet of the Dry Cooling Tower & that hot water get Cooled and Cold water outlet from the Dry Cooling Tower is connected to the pump, which pumps the cold water to the equipment to transfer the heat from the equipment with less Evaporation loss, Maintenance free, No need of raw Water tank & 100% free from descaling.

Dry cooling tower is an equipment which is used to cool and maintain the temperature of process hot water at a particular level. This operates on the principle of heat transfer by a heat exchanger with extended fins. The fan is driven by an Electric Motor. Applying dry cooling means saving water.

Dry cooling technologies prove technical qualities and effectiveness in power plant heat rejection.

Dry Cooling benefits are:

1. Conserving significant amount of water.
2. Minimizing environmental impact.
3. Very economical in cost.





Products | Timber Cooling Towers |

Coimbatore cooling towers is the leading manufacturer of timber type cooling towers. It is mechanical strength, durability and high efficiency. Manpower with vast specialized experience in cooling tower manufacturing is back bone of the organization. We have with us persons who have been entirely responsible from concept to final product manufacturing. We have major time tested development that has been incorporated in standards. Our CCT timber cooling towers are atmospheric cooling tower and mechanical cooling towers. Atmospheric towers are only for smaller capacities and mechanical draft towers are for higher range. Induced draft cooling towers are efficiency and popular due to sucking of air from the tower and exhaust at the top or side. The timber cooling towers are made out of pine wood or chirr wood after properly seasoned and chemically treated with arsenic chromate to with stand its life against biting, fungus and termite etc.

Boiler waterproof plywood [marine grade], asbestos, treated woods, ss or hot dip. Galvanized bolt and nuts are used in the timber cooling towers. Marine grade plywood are used for hot water chamber in timber tower. The water is distributed by even distribution nozzles by gravity. So no extra pumping cost. The industry commitment to Research & Development delivers a constant streams of new products as well as refinement in existing materials & process.





Products | Natural Draft Cooling Towers |

The Natural draft cooling towers are particularly pretty as a cost-saving solution for power plants and other industrial plants requiring larger quantities of cooling water. Natural Draft cooling tower operates without fans and Fills, the large amount of electric power or else required for large cooling tower systems is not required. The mandatory cooling air is pass on through the tower by natural draft henceforth neither fan nor fan power is required for these kind of Cooling Solution. No maintenance required like other Wet (or) Dry Cooling Towers. By using of Non clock nozzle are easy to cleaning reqduce spillage and evaporation loss. Hot Dipped Galvanized Structural's and S.S.fasteners increase the lifetime as well as the efficiency of the cooling tower it can be installed for any range of cooling application.

Structure : Is made from heavy M.S.Angle/Tee/Channel sections and Hot Dipped Galvanised or lined with FRP for corrosion resistance.

Louvers : Are made from Fiberglass Reinforced Plastics which ensures corrosion resistance and good mechanical properties.

Water Distribution Headers : Are made from "c" class galvanised pipe.

Nozzles : Are made from Rigid PVC (or) Brass Nozzle to give good corrosion resistance.

Nuts and Bolts : Are made from Stainless Steel (or) HDG Bolt and Nuts.

Features and Functions of Natural Draft Cooling Towers

Natural Draft Cooling Tower especially hold attraction as solution for saving costs for large industrial plants and power stations; that require large amounts of cooling water.

The needed cooling air is transported to the tower with the help of natural draft. Hence there is no necessity for fan or fan power. It is also used for the release of treated exhaust gas. It also implies that there is no need of gas reheating or chimney. PVC Fills, motor, fan are not required by Natural Draft Cooling Towers. FRP Louvers that are specially designed aerodynamically, minimize evaporation loss and spillage.





Products | RCC Cooling Towers |

We are Specialist in the establishment of Reinforced Concrete Cooling Towers. We Do RCC Cooling Towers Design and Construction for both in Cross Flow RCC Cooling Towers and Counter Flow RCC Cooling Towers, With Long life Compare to FRP and Timber Cooling Towers. RCC Towers made of Concrete cell. All Internal Parts are As per Other Cooling Towers.

The Performance of Cooling Tower is Pre Determined and Over Designed based on Long Life Approach. Also Our style of construction is Completely User Friendly and Attractive suitable for huge wate flow application plants like



- ❑ **RCC Cooling Towers for power plants,**
- ❑ **RCC Cooling Towers for sugar plants,**
- ❑ **RCC Cooling Towers for Cement plants,**
- ❑ **RCC Cooling Towers for Boilers and water treatment plants etc.,**



Products | Closed Circuit Cooling Towers |

Closed circuit cooling towers operate in a manner similar to open cooling towers, except that the heat load to be rejected is transferred from the process fluid (the fluid being cooled) to the ambient air through a heat exchange coil. The coil serves to isolate the process fluid from the outside air, keeping it clean and contaminate free in a closed loop. This creates two separate fluid circuits: (1) an external circuit, in which spray water circulates over the coil and mixes with the outside air, and (2) an internal circuit, in which the process fluid circulates inside the coil. During operation, heat is transferred from the internal circuit, through the coil to the spray water, and then to the atmosphere as a portion of the water evaporates.





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