

# JANANI ENTERPRISES

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# JANANI ENTERPRISES

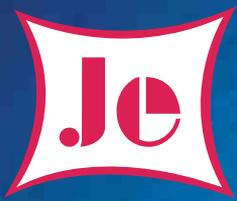
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## | Profile |

Incepted in the year 2003, Janani Enterprises, Coimbatore is one of the leading manufacturers and exporters of a wide array of Industrial FRP (Fibre Glass Reinforced Plastic) Cooling Towers, Industrial Heat Exchangers (with bundle of copper tubes), Dry Cooling Towers, Weather Proof Chillers, Heat Exchangers, Cooling Tower Spares and Wooden & RCC Cooling Towers. These are widely used in the Oil Refineries, Distilleries and Breweries Plants, and Fertilizer Plant, Cement Plant, and Engineering Industry. Our Cooling Towers are ranging from 10TR to 1000TR including FRP, Wooden, Dry, Fan Less and Fill Less Cooling Towers.

We are involved in Designing Chillers ranging from 1TR to 750TR. We are also Specialized in Design of (Glycol Chilling Plants and Brine Chilling Plants) Further, we are undertaking the projects of Centralized AC, Humidification Plants, Ventilations and Refrigerations. Our well-equipped research facilities enable us in developing the Cooling Towers confirming to the international standards of quality. Furthermore, our logistic support helps us in exporting our Cooling Towers to the markets located in the parts of Dubai, South Africa, Tanzania, and Srilanka.

We also technologically upgrade our production process and plan to reduce evaporation loss of water by 60% from the present situation. Last but not the least we have acquired a great significance in the market of India. This is evident from the fact that we have acquired various renowned clients such as TVS, Ultra Tech Cement, Apollo Hospitals, Chennai, TVS Rubber Factory, Madurai, and ISRO Sri-Harikotta. We offer quality assured Industrial Cooling Towers, Industrial Heat Exchangers, Weather Proof Chillers and Cooling Towers Spares in the leading industrial prices. The temperature can even be brought down up-to (-)40°C. To acquire utmost customer satisfaction, we employ easy transaction modes and assure to deliver the consignments within an estimated lead time of 4-6 weeks. Our reliable logistic support enables us in exporting the Cooling Towers to overseas markets of Dubai, South Africa, Tanzania, and Srilanka.



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## | Products |

### INDUSTRIAL CHILLERS

Round shape Cooling Tower Capacities

Square Cooling Tower Capacities

Dry Cooling Towers

### CROSS FLOW COOLING TOWER

### NATURAL DRAFT COOLING TOWERS

### WOODEN COOLING TOWER | TIMBER COOLING TOWER

### INDUSTRIAL CHILLER - AIR COOLED CHILLER

### WATER COOLED CHILLER

### PLATE HEAT EXCHANGER

### SHELL AND TUBE HEAT EXCHANGER

### INTER COOLER / AFTER COOLER HEAT EXCHANGER

### OIL COOLERS HEAT EXCHANGERS

### EVAPORATOR COIL COOLER

### EVAPORATOR COOLING SYSTEMS

### EVAPORATIVE AIR COOLING MACHINE

### AIR COOLER

### HUMIDIFICATION PLANT

### RADIATORS

### COOLING TOWER FILLS

### COOLING TOWER FAN

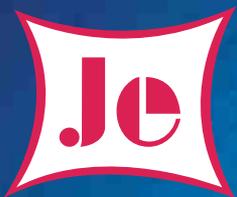
### TUBE BUNDLE

### COOLING TOWER SPRINKLERS

### COOLING TOWER MOTOR

### COOLING TOWER NOZZLE

### WATER TREATMENT CHEMICAL



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## | Products |

### INDUSTRIAL CHILLERS

We are well versed for providing various sorts of Industrial Chillers to our customers. These are offered in different sizes, specifications and are used in various industries. These have long lives, offer maximum usage and also consist of single phase preventer, OLR (Over Load Relay) LP switch, HP switch, Solenoid Valve, ON Delay Timer, MCB's, Water- Level Controller, Temperature Indicator Controller, Water Circulation Pump and Water Filter.

Parameter	0.75TR	1TR	2TR	3TR	4TR	5TR	6TR
Cooling capacity Outlet Temperature of Refrigerated water Water Thermal Difference Inlet Temperature Ambient Temperature	Kcal/hr Kiwi °C °C °C °C	2300 2.7 15 5 20 40	3225 3.7 15 5 20 40	6300 70.3 15 5 20 40	8845 10.3 15 5 20 40	1310 0 15.2 15 5 20 40	1512 0 15.2 15 5 20 40
Cooling system Compressor Quantity Type Hermetically sealed Absorbed Powder Refrigerant	No Kw	Air Cooled 1 0.9 R22	Air Cooled 1 1.44 R22	Air Cooled 1 2.35 R22	Air Cooled 1 3.3 R22	Air Cooled 1 5.25 R22	Air Cooled 1 6.1 R22
Pump Max.Pressur/Head	Mtrs	3	3	3	3	3	3
Tank Material Capacity	Ltrs	SS 40	SS 40	SS 70	SS 70	SS 100	SS 100
Fans Quantity Absorbed Powder Power Supply N/Out Water Connection	No Watts V/hz/ph	1 110 230/5 0/1 ¾"	1 110 230/5 0/1 ¾"	1 110 230/5 0/1 1"	1 240 415/5 0/3 1"	2 240 415/5 0/3 1.12"	2 240 415/5 0/3 1.12"
Dimensions Length Breadth Height Weight	Mm mm mm Kgs	650 490 784 130	650 490 784 130	900 600 930 200	900 600 930 250	1000 850 1084 275	1000 850 1084 370
Correction Factors: Cooling capacity related Ambient Temperature: Temperature in Correction factor Cooling Capacity related to water outlet	OC 1.2 OC	30 1.1 5 0.6	35 1 10 0.75	40 0.9 15.1	40 0.8 20 1.6	50 25 1.3	



## | Products |

### ROUND SHAPE COOLING TOWER CAPACITIES

Round Shape Cooling Tower are called as Bottle Shape Cooling Towers and Induced Draft Counter Flow Cooling Towers.

#### ***Round Shape Cooling Tower Capacities***

Round Shape Cooling Tower gives 100% Cooling efficiencies it gives good appearance. Our Cooling Towers Capacities are ranging from 5 M<sup>3</sup>/Hr To 11000 M<sup>3</sup>/Hr and resulted differences in temperature availability of capacities from 5 TR TO 1000 TR in FRP type.

#### **Features**

The Bottle Shaped FRP Cooling Tower is utilized in several industries and has the following features.

- All the components have a modular and compact design
- The casing and the design has an exclusive circular design. Therefore no impact of the direction of prevailing wind is encountered.
- This FRP water Cooling Tower has a very efficient sprinkler head system that is rotative and is made of aluminum alloy
- Axial flow fans that are designed aerodynamically with adjustable pitch are used
- The Bottle Shaped FRP Cooling Tower helps conserve power
- Quiet operation is ensured
- The sump is given easy access with a galvanized mesh of hot dip. This is done to avoid entry to foreign objects into the water basin
- The possibility of corrosion and rust gets minimized due to the framework steel components that are hot dip galvanized.





## | Products |

### ROUND SHAPE COOLING TOWER CAPACITIES

Though the Cooling Tower maintenance is not difficult, it is important.

#### Cooling Tower Maintenance

- Efficient treatment of water
- Prevent scale deposits
- Do way with or clean spray nozzles that get clogged
- Adequate air flow should be ensured
- Adequate performance of pump also should be assured

#### Round shape Cooling Towers Spares

- PVC Fill : A good quality fill and is of long life too.
- Drift Eliminator: They carry over losses due to moisture drops.
- Sprinkler: Due to the even water distribution over the honey comb fills.
- Fan: Flow type fan that is Aero dynamically designed is of well balanced construction. we have availability of FRP fan and Aluminum fan



Round Shape Cooling Tower Capacities





## | Products |

### SQUARE SHAPE COOLING TOWER CAPACITIES

The square Cooling Tower is of the design: vertical induced draft counter flow, with a uniform distribution of water and an optimal transfer of heat. These are utilized by all large industries in order to cool the water that has undergone recycling. The installation of Cooling Tower can be done independent of the direction of wind. Cooling Towers are nothing but heat rejection devices that are used to remove unwanted heat into the air from the cooling stream of water to a reduced temperature.

#### Square Cooling Tower Capacities

Square Cooling Tower gives 100% Cooling efficiencies and it gives good appearance, flow rate from 5 M<sup>3</sup>/Hr To 11000 M<sup>3</sup>/Hr gives differences in temperature 4°C To 30°C Availability of Capacities from 5 TR To 1000 TR in single cell

#### Technical Features Of Square Cooling Tower

- The flow of water ranges between 5 M<sup>3</sup>/Hr To 11000 M<sup>3</sup>/Hr
- The design easily blends with the architectural environs
- The casing of the same is of tough Fibre Glass Reinforced Plastic (FRP). It possesses sufficient structural power to endure winds of high velocities as well as vibrations. Besides Gel coat, an ultra violet stabilized resin is also used for extended life. The square Cooling Tower is resistant against local impacts and local repairs could be easily done in case of occurrence of slight damages.
- A temperature difference from 4°C To 30 °C can be ensured
- It uses less energy on the whole due to minimal resistance of air to water
- Nozzles are designed easy cleaning while running the square shape Cooling Towers





## | Products |

### SQUARE SHAPE COOLING TOWER CAPACITIES

#### Applications Of Square Cooling Tower

- In cold rooms and air condition plants
- Aluminum Die casting
- Dairy industry
- Chemical industries
- In food industries such as hotels as well as in industries of Food Processing
- Oil refineries
- Automobile industries
- Forging and Mechanical industries
- Plants manufacturing glass
- Also employed for mega watt project industries' heat process
- By plastic moulding machineries



Square Shape Cooling Tower Capacities





## | Products |

### DRY COOLING TOWERS

Dry Cooling Towers are produced in forced draught and induced draught designs, and in Single and Multi-Fan Arrangements, Depending on customer specifications and requirements, We are the professional dry Cooling Tower and Air Cooled Condenser Manufacturers, Tubes in Copper and Fins are Aluminium MOC we use 5/8" or 3/8" OD copper tubes as per customer specification, all tubes are well expanded tested for pressure and leak.

#### Advantages Of Dry Cooling Towers

- A great deal of water gets preserved on using dry Cooling Towers.
- Less or no preparation needed as atmospheric air is in abundance
- No formation of scale or heat exchanger cleaning is required
- There are no mobile parts except for the fan and the motors.  
Hence the Cooling Tower maintenance is negligible.
- Dust, fly ash, living organisms or dirt do not get mixed up with process water
- There are no constraints placed on the location of plant
- No corrossions caused by air
- This Cooling Tower performance ensures minimal environmental impact
- Reduced annual operating expenses

#### Applications

Predominantly used for air compressor and power generating units for applications of engine water cooling. Petroleum plant, power utility, steel manufacturing industry, cement, sugar factories , chemical and gas-processing industrials



Dry Cooling Towers



## | Products |

### CROSS FLOW COOLING TOWER



The Rectangular Cooling Towers or the closed type Cooling Towers or the cross flow Cooling Towers has a range of cooling capacity of a single cell Cooling Tower of around 70M<sup>3</sup>/Hr to 300 M<sup>3</sup>/Hr. The suitable refrigeration is between 4° C and 30°C. Multiple cells may be fixed together. This installation plants are available when your cooling requirements exceed The motors in this Cooling Tower system are present outside the tower. This setup is devoid of the problem of hot mist. When compared to the section of motor inside fan, it is very easy to remove and thus repair.

#### Structure

Frame: The supporting structures are of hot-dip galvanized steel, used to reduce corrosion or rusting, thus ensuring extended life.

#### Cross Flow Cooling Tower Capacity

Water flow rate from 5 M<sup>3</sup>/Hr To 550 M<sup>3</sup>/Hr gives differences in temperature 4°C To 30°C Availability of Capacities from 5 TR TO 600 TR.

#### Casing

The casing of this industrial Cooling Tower is made of FRP (Fiberglass Reinforced Plastic). It is of light weight, simple to assemble and there is no need to paint. This reduces the cost of the Cooling Tower maintenance.

#### Advantages

- Lower maintenance and longer service life.
- Available with PVC fills or treated wood fills,
- In virtually unlimited capacity
- he furnishing of the inspection doors of the tower are done in such a way to provide easy access to the inside for maintenance, inspection, float valve adjustment, sump flushing out and lift-out strainer cleaning.
- FRP fan specially designed for higher efficiency.



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| **Products** |

## NATURAL DRAFT COOLING TOWERS / FAN LESS FILL LESS COOLING TOWER



Our natural draft Cooling Towers are not required any fan or fills, no maintenance like other cooling towers, non clogging nozzles are easy to cleaning reduce spillage and evaporation loss. Hot dip galvanized structural 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 applications

### Capacities

Natural draft Cooling Tower Availability of Capacities from 5 TR TO 1000 TR in Single cell





## | Products |

### NATURAL DRAFT COOLING TOWERS

#### Features and Functions

- 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.
- The rates of flow come around 2,00,000m<sup>3</sup>/h per 9,00,000gpm
- PVC fills are not required by these FRP Cooling Towers
- FRP louvers that are specially designed aerodynamically, minimize evaporation loss and spillage
- The effusion and lifetime of this industrial Cooling Tower is increased with the aid of fastener.
- The tower could be installed for a variety of cooling applications
- The needed volume of air stream for cooling is produced by stack effect
- The economic benefit of such industrial Cooling Towers exists in their low requirement of electric energy. The costs of operation are minimal
- These industrial Cooling Towers are highly economical for depreciation and loads of high cooling over an extended period
- The recirculation of the rapid air causes reduced performance. This gets reduced by the high distance between the air outlet and inlet of the tower.





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### WOODEN COOLING TOWER | TIMBER COOLING TOWER ( Induced /Forced)

Wooden Cooling Tower was developed to offer greater cooling capacity in smaller space with lower operating costs. Wooden Cooling Tower are generally constructed over sumps designed to accommodate wooden Cooling Tower.

Wooden Cooling Tower gives 100% cooling efficiencies and It gives good appearance flow rate from

5 M3/Hr To 500 M3/Hr gives differences in temperature 4°C To 30°C Availability of Capacities from 5 TR TO 1000 TR in single cell, A wooden Cooling Tower available in a wide selection of frame sizes to efficiently serve application requirements

#### Capacity Of Cooling Tower

Induced draft timber Cooling Tower are design with our well experience engineers, they usually design according to the customer request and their specific details given like LPM, inlet and out let temperature and WBT, Cooling Tower dimensions and maximum height Cooling Tower capacity and size shall be calculated with this specific details provided by the customer.

#### Cooling Tower Frame Work

Cast iron body adjustable distribution valves with locking bar shall be included, water distributes uniformly over the entire fill area.

#### Cooling Tower Filling

Cooling Tower fan 4 or more aluminium blades, each can adjustable individually attached MS/AL Hub, oil gauge shall be extended outside the fan



Wooden Cooling Tower | Timber Cooling Tower

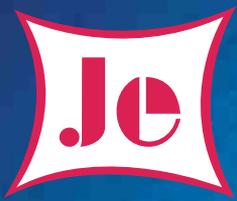
#### Cooling Tower Distribution System

All structural framework are chemically treated pinewood joint shall be through hot dip galvanized bolts and nuts and steel and nails shall be stainless steel.

#### Cooling Tower Mechanical Equipment

Fill splash bars shall be consist of treated wood, drift eliminator shall be designed to limit drift loss,





## | Products |

### WOODEN COOLING TOWER | TIMBER COOLING TOWER

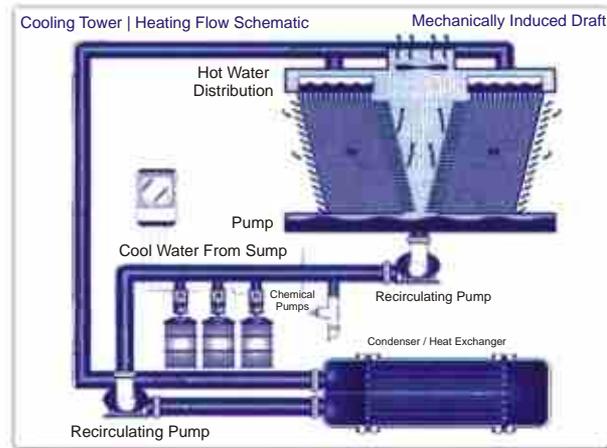
#### Features

- The location of this wooden Cooling Tower can be closer to the plant as there is no problem of drift
- There is no loss of efficiency because of the recirculation of the discharge of hot air from the tower top at significant height
- Our quality of wooden Cooling Tower design is superior
- This wooden Cooling Tower provides a fill pack that is wooden and a sprinkler in a design that maximizes efficiency and economy.
- Janani wooden Cooling Tower is highly reliable as well as durable
- Janani Cooling Towers fans and sprinkler provide great cooling in an area of minimum plan , with reduced energy

No cost of operation and so cost effective

- The risk of fire is negligible
- The minimum approach of the wooden Cooling Tower is around 4-5°C
- Janani wooden Cooling Tower can be closely grouped thus saving height

#### How our System Works



#### **Drift Eliminator**

Fans of standard aluminum alloy, multi bladed impellor of axial flow with aerofoil or profile blades that are similar; adjustable manually for pitch while the assembly does not move

#### **Fan assembly**

Fans of standard aluminum alloy, multi bladed impellor of axial flow with aerofoil or profile blades that are similar; adjustable manually for pitch while the assembly does not move

#### **Janani nozzles**

Specially designed to provide the required water distribution. They are highly resistant to the temperature and damages of weathering

#### **Distribution deck**

The open gravity kind, which helps in the uniform distribution of water over the complete fill area.

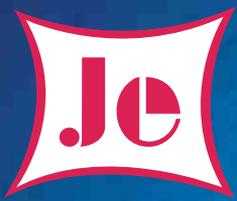
#### **Casing & louvers**

The casing is a cement board of corrugated Asbestos

#### **Filling & support**

The splash bars and the supporting frame of structure are wood that is treated with preservative





## | Products |

### INDUSTRIAL CHILLER - AIR COOLED CHILLER

Chilled water is used to cool and dehumidify air in mid to large size commercial, industrial facilities like Water chillers can be either water cooled chiller or air cooled chiller Whenever a chiller's heat rejection can be used for a productive purpose, in addition to the cooling function.

#### **Water Cooled Chillers :**

Water cooled chillers are typically indoor installation and operation, it's all cooled by a separate condenser water loop and connected to outdoor Cooling Towers to expel heat to the atmosphere.

#### **Air Cooled Chiller:**

Air Cooled chillers are intended for outdoor installation and operation. Air cooled machines are directly cooled by ambient air being mechanically circulated directly through the machine's condenser coil to expel heat to the atmosphere.

#### **Quality Control:**

Our chillers are compact design covering minimum floor area. low cost maintenance, break through technology and long life serviceability Chilled water temperature can range from 5°C to 7°C Our Chillers manufacturing range from 0.5 TR to 250 TR



Industrial Chiller - Air Cooled Chiller





## | Products |

### INDUSTRIAL CHILLER - AIR COOLED CHILLER

#### Function Of Industrial Chiller

The industrial chillers are normally packaged, complete and closed-loop systems. They include the condenser, pumps, chiller, temperature control systems and associated valves.

Circulates water or any other coolant at constant pressure and temperature. The coolant flows from the chiller to the point of application and back again.

Refrigeration is used as the cooling process in most of the industrial chillers. Some depend on air or water that flows over the coils containing a specific coolant in order to regulate the temperature.

The coolant that is used most commonly in process chillers is water, though coolant mixtures are employed frequently. The latest development in industrial water chillers is the utilization of water cooling rather than air cooling.

The condenser cools the refrigerant with water and not air.

A Cooling Tower cools the air, thus reducing the need for energy as well as the chiller size. This is because of the condenser's small surface area and the lack of cooling fans which minimizes the noise levels too.



Industrial Chiller - Air Cooled Chiller





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### Industry Chiller Application

Chilled water or other liquid from the chiller is pumped through process or laboratory equipment. Industrial chillers are used for controlled cooling of products, mechanisms and factory machinery in a wide range of industries like.

- Plastic industry in injection and blow moulding,
- Metal working cutting oils, welding equipment,
- Die-casting and machine tooling, chemical processing,
- Pharmaceutical formulation,
- Food and beverage processing,
- Paper and cement processing,
- Vacuum systems • X-ray diffraction
- Power supplies and power generation stations, analytical equipment, compressed air and gas cooling.
- Janani chiller used to cool high-heat specialized items such as MRI machines and lasers, and in hospitals, hotels and campuses.
- The chillers for industrial applications can be centralized,
- Decentral chillers are usually small in size (cooling capacity), usually from 0.2 tons to 10 tons. Central chillers generally have capacities ranging from 10 tons to 100

### Specifications

When determining industrial chiller specifications, the following aspects need to be taken into consideration:

- Source of power
- Chiller rating
- Capacity of the evaporator and condenser
- Cooling capacity of the chiller
- Type of the evaporator
- Ambient temperature
- Material of evaporator and condenser
- Type of fan Expectations of efficiency
- Materials of plumbing and piping
- Limits of noise level
- Number of compressors and their type
- Number of circuits
- Fluid leaving temperature
- Coolant requirements Type of refrigerant



## | Products |

### WATER COOLED CHILLER

Water cooled chillers are typically indoor installation and operation, they are cooled by a separate condenser water loop and connected to outdoor Cooling Towers to expel heat to the atmosphere.

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- Limits of noise level
- Number of compressors and their type
- Number of circuits
- Fluid leaving temperature
- Coolant requirements
- Type of refrigerant



Water Cooled Chiller





## | Products |

### WATER COOLED CHILLER

#### Function Of Water Cooled Chiller

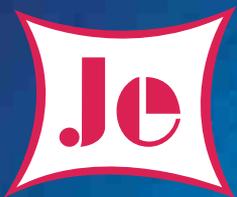
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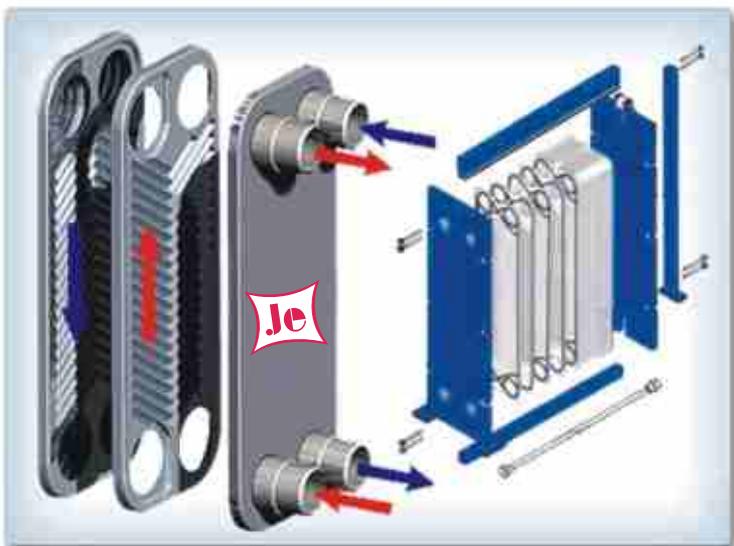
- Plastic industry in injection and blow moulding,
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## | Products |

### PLATE HEAT EXCHANGER



The plate heat exchanger consists of a pack of corrugated metal plates with portholes for the passage of the two fluids between which heat transfer will take place. The plate pack is assembled between a frame plate and a pressure plate and compressed by tightening bolts.

### Function of Plate Heat Exchangers

The plates are fitted with a gasket which seals the channel and directs the fluids into alternate channels. The number and size of the plates are determined by the flow rate, physical properties of the fluids, pressure drop and temperature program. The plate corrugations promote fluid turbulence and support the plates against differential pressure. The plates and the pressure plate are suspended from an upper carrying bar and located by a lower guiding bar both of which are fixed to the support columns. Connections are located in the frame cover, or if either or both fluids make more than a single pass within the unit, the frame and pressure plates. We are in the process of developing the Plate Heat Exchanger and would take up the manufacturing in the near future.

### Equivalent to other Heat Exchangers

If you are unhappy with the original design of plate heat exchangers, send us the operating specifications and improvements required and we will offer a suitable replacement heat exchangers. We can also provide a shell and tube equivalent, if you would prefer to have a unit that is more easily repaired on our factory

### Applications

- Lube Oil Coolers
- Steam Heaters
- Jacket Water Coolers
- Water Heaters (non-electrical)
- Fuel Oil Heaters
- Gearbox Oil coolers



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### SHELL AND TUBE HEAT EXCHANGER

Janani Enterprises designing the shell and tube heat exchanger is quite result oriented for process industries and for Oil Cooling. The tubes used internally are deliberately of various shapes and design to obtain different outcomes. While a few of the tubes may be plain, others may come finned longitudinally or horizontally. Additionally, the tubes can also be of various materials and thermal conductivity. For instance, Janani Enterprises Equipments can be designed from carbon steel, stainless steel, cupronickel, copper or brass.

#### Testing Of Heat Exchanger

Owing to the complex nature of the shell and tube heat exchangers, regular inspection of the equipment is necessary. This can help to assess the thickness of the tube walls that are prone to fitting, erosion and corrosion over time. The status of the whole bundle of tubes may be charted and assessed through a thorough inspection with the help of a device known as Internal Rotary Inspection System that functions via ultra sonic testing and also has a non-destructive nature

#### Specification

Design	Shell
Length	upto 20,000 mm
Weight	upto 20 M.T
Pressure	upto 300 Kg/cm <sup>3</sup>
Temperature	upto 1000°C
Tube Plate	Dia upto 4000 mm
	Thickness upto 100 mm.

#### Features

- Materials we used for Shell, Carbon steel, stainless Steel sizes up to 20000 mm,
- Tubes Copper, Brass, Cupro-nickel , Carbon Steels in sizes from 6 mm to 50 mm OD, Stainless Steels,
- Tube Sheets: Carbon Steel, Stainless Steel, Brass etc.
- Channels and Cover : Carbon Steel, Stainless Steel, Case Iron, Brass , Mild Steel etc...
- Gaskets : Rubber, Compressed

#### Application

- Chemical, Petrochemical,
- Fertiliser. Thermal Power plants,
- Refrigeration Plants,
- Marine Engines,
- Turbines, Hydraulic Systems,
- Sugar Machinery.





## | Products |

### INTER COOLER / AFTER COOLER HEAT EXCHANGER



#### Purpose of Inter-cooler and after cooler Heat exchangers

Janani Enterprises Inter-cooler and after cooler Heat exchangers are utilized in several industries, especially in chemical plants and oil refineries, textile industries. The purpose of these heat exchangers is to transfer heat from machinery to the other, most often from a liquid to the other. The constant efficiency of the heat exchanger demands for regular inspection to assess the equipment integrity. An inter cooler, also known as the charge air cooler is heat exchange device of the air to air or air to liquid kind that is used on supercharged and turbocharged internal combustion engines in order to maximize its volumetric efficiency by raising the charge density of intake air via almost isobaric.

#### Types of inter cooler/ after cooler

The inter-coolers, sometimes called as the after coolers, come in varied shape, design and size based on the special requirements and performance of the supercharger system.

#### Some of the usual spatial designs are

- TMIC (Top Mounted Inter Coolers)    HMIC (Hybrid Mounted Inter-coolers)    FMIC(Front Mounted Inter coolers).

Each of these kinds could be cooled with an air to liquid system, air to air system , or its combination.





## | Products |

### INTER COOLER / AFTER COOLER HEAT EXCHANGER

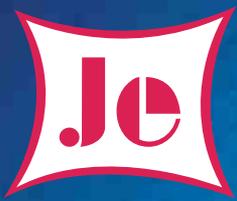
#### **Function of inter cooler/ after cooler**

Our inter-cooler heat exchanger to successfully cool the air passing through the device, The inter-cooler needs to be cooled with the aid of some outside means. Many of the inter-coolers undergo cooling like an engine radiator where the air flows above the inter-cooler fins outside, that in return cools the air present inside the inter-cooler. Thus it is known as air to air inter-coolers. Some of the inter-coolers that are water cooled rather than by air are known as air to water inter-coolers or after coolers

#### **Advantages of inter cooler/ after cooler**

- The advantage that Janani equipment's after cooler heat exchanger is that the air passing through the device can be cooled better when compared to a traditional inter-cooler where ice and excessively cold water is utilized to cool the device.
- Water is a good conductor of heat rather than air; with the capacity to conduct four times its heat. It is for this reason that the after coolers are comparatively more effective. The downside is that as time goes, the water gets heated to the air temperature passing through the device and so loses its capacity to cool the incoming air.
- Some of the after coolers utilize a small radiator in order to cool the water running through the system, thus making the heat exchangers ideal for racing as well as street use.
- After cooler heat exchangers that are ice packed work well for applications of drag racing as only around ten seconds of functioning is required before one shuts down and goes to the victory dais.
- For street applications and mild racing, after coolers or air to air inter-coolers with radiators are feasible since the ability to cool the incoming air does not minimize with time.





## | Products |

### OIL COOLERS HEAT EXCHANGERS



Oil cooler are classified in to two. One is air cooled - oil cooler then water –cooled oil cooler. Air cooled oil coolers are mostly used where water availability is scarce and expensive. Water-cooled oil cooler, maintenance and operating cost are usually low. The cooled water manifolds, charges oil and air coolers for usage on marine engines. These heat exchangers are suitable for power steering, bow thrusters ,deck machinery etc.

#### Application

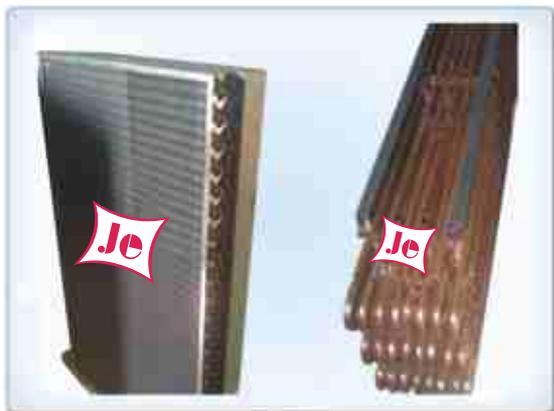
Oil Coolers are used for various applications involving cooling of Oils,

- Industrial Oil Coolers heat exchangers are widely used in refrigeration,
- power plants,
- air conditioning,
- processing of natural gas,
- chemical plants,
- petroleum refineries and petrochemical plants.
- Plastic Machinery
- Hydraulic Power Packs
- Marine oil cooler



## | Products |

### EVAPORATOR COIL COOLER



Fin Type Cooler are produced in forced draught and induced draught designs, and in single and multi-fan arrangements, depending customer specifications and requirements, We are the professional Fin Type Cooler and air cooled condenser manufacturers, tubes in copper and fins are aluminium MOC we use 5/8" or 3/8" and 1/2" OD copper tubes as per customer specification, all tubes are well expanded tested for pressure and leak.

#### **Function of Fin Fan Coolers**

Air Cooled Heat Exchangers - also known as Fin Fan Coolers, are heat transfer devices for rejecting heat from a hot process fluids such as refinery products or steam directly, to the surrounding atmosphere.

Janani Enterprises Fin Fan Coolers are basically that multiple rows of fin tubes with a fan to move lower temperature ambient air over the coils in order to cool the hotter fluid, just like a radiator in industrial an automobile. An industrial example is a unit large enough to reject the heat from a turbine exhaust steam condensation system

#### Advantages of Fin Type Cooler

- A great deal of water gets preserved on using Fin Type Cooler.
- Less or no preparation needed as atmospheric air is in abundance
- No formation of scale or heat exchanger cleaning is required
- There are no mobile parts except for the fan and the motors.  
Hence the Cooling Tower maintenance is negligible
- Dust, fly ash, living organisms or dirt do not get mixed up with process water
- There are no constraints placed on the location of plant
- No corrosions caused by air
- This Cooling Tower performance ensures minimal environmental impact
- Reduced annual operating expenses

#### Applications

- Predominantly used for air compressor and power generating units for applications of engine water cooling.
- Petroleum plant,
- power utility,
- steel industry,
- cement,
- sugar factories,
- Chemical and gas-processing industrials.
- Chillier machines,
- refrigeration system
- petrochemical refineries



## | Products |

### EVAPORATOR COOLING SYSTEMS

An evaporative cooling system offers effective cooling by combining water evaporation, which is a natural process, with a reliable and simple air-moving system. Air from the outside is pulled via moist pads where evaporation cools it and is circulated in a building or a house with the help of a large blower. During this process, the temperature of the air in the outside gets reduced as much as thirty degrees.

#### Features

- Compared to the conventional systems, the fill type system attains maximum saturation.
- The design is compact and pre-fabricated, consumes less space, which is only about forty percent of that occupied by conventional systems.
- There is no requirement for masonry work and can be placed outside the building too.
- Consumption of power is negligible when compared to spray machines. This is due to low drop in pressure and low pump.
- The level of maintenance is also negligible since no nozzles are used. This promises trouble-free service.
- Since there are no nozzles of high pressure, the noise level is only about eighty decibel near the machines.
- Quick installation ensured as the machine is fabricated and tested at factory and possesses the flexibility for relocation.
- The equipments are available in FRP casings or stainless steel.
- The content material at the surface is specially engineered for the purpose of direct evaporative cooling & humidification. It is constructed from a unique cellulose paper that comes impregnated with compounds that are insoluble and prevent rotting. It also contains wetting agents and stiffening saturates. The material is made out of corrugated sheet that is assembled in pads that are self supporting.
- There is an arrangement of patented angle on the sheets in order to direct the flow of water towards the side of the air inlet, the place of occurrence of maximum evaporation.



- The pad is also constructed to flush away the dust from the atmosphere and has a contact surface of about 440 m<sup>2</sup>/m<sup>3</sup> between water and air.
- The cover of water distribution is of fiber glass reinforced plastic for its anti corrosive properties. the metal parts are of sixteen gauge steel sheet that is galvanized.
- The water tank is of 3 mm frp that is of reinforced steel.



## | Products |

### EVAPORATIVE AIR COOLING MACHINE



Our Ancestors maintained the earth GREEN by being close to nature. They built massive structures with Natural- Resources. Janani EQUIPMENTS were indeed master-builders who created all GREEN –BUILDINGS. Our Ancestors used mass and moisture and simple Evaporative Air Cooling Techniques innovatively to keep Indoor, Environmental, Quality (IEQ) cool and comfortable, consuming very little or no energy.

- Specially Designed and developed Evaporative cooling system using principle of natural evaporation of water to cool hot and dry air.
- Keeps indoor Environmental Quality (IEQ) cool, comfortable and Fresh and Healthy.
- Compact, light in weight and easy to dismantle, assemble and install.
- Simple to operate with negligible maintenance.
- Power consumption 1/10th of air-conditioning plant.
- Highly economical in initial and running cost.
- Fitted with High Cooling-Efficiency (Above 86%) cellulose pad.
- Fabricated from polyester coated G.I sheet for long life and elegant looks.
- Dynamically balanced fan blade for low noise/low power and high air delivery.
- Tailor made energy efficient motors ensure low power consumption.
- Submersible impeller pumps to avoid air lock and priming.
- Efficient water distribution system.
- Regular features like bleed off/Auto cut valve and rubber Mountings.



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### AIR COOLER

Janani equipments evaporator cooling system division manufacturing includes of Evaporative cooling performance which installed outside of wall, brings fresh air into room by air distribution pipe with lowest power consumption, allows door and windows open, make your workshops and offices, factories cool in hot weather to be possible by paying 80% less power consumption to get best productivity and highest working efficiency. This dynamic due to changes in external temperature and humidity level. Under typical operating conditions, an evaporative cooler will nearly always deliver air cooler than 27°C (80°F). A typical residential 'swamp cooler' in good working order should cool air to within 3–4°C (5–7°F) of the wet-bulb temperature.

Janani cooling machines ensure even & continuous water distribution which in turn gives higher cooling efficiency. Water distributor used will not allow circulating water to leak/to fall fan motor or to deviate its flow. Even water distribution will ensure higher cooling.

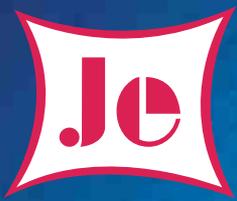


### HUMIDIFICATION PLANT

With our state-of-the-art technology, Janani Enterprises manufacture a wide range of Humidification Plant. Our range of Humidification Plants caters to the needs of textile industries and helps to manufacture yarns of various garments. We offer these plants in customized specifications as per the demands of our valued clients.

Our humidification of indoor air for thermal comfort. In a broader sense, the term can refer to any form of cooling and heating, ventilation, or disinfection that modifies the condition of air. An air conditioner (often referred to as AC or air con.) is an appliance system, or machine designed to stabilise the air temperature and humidity within an area to use for cooling as well as heating depending on the air properties at a given time, typically using a refrigeration cycle but sometimes using evaporation,





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### RADIATORS



Janani equipment's Radiators are actually heat exchangers that are utilized to transfer thermal energy from a medium to the other for heating and cooling purposes. Most of the radiators are designed to function in buildings, electronics and automobiles. It is a heat source to the environment, though it may be to heat the surrounding or cool the coolant or fluid that is given to it, as in engine cooling. Janani equipment's wide variety and range of radiators, constructed from copper are manufactured with the latest in technology and technical data. A radiator makes use of hot water that circulates via metal pipes to heat air. As it passes through the pipe, the pipe itself gets heated and this heat is transmitted to the air, thus the room becomes warm. The hot water flows back to a boiler, in which it is heated & then circulated back.

### Radiator Function in Engine Cooling

A liquid coolant is passed via the engine block, where it gets heated, and then is passed via the radiator where the heat is lost to the atmosphere. Though the coolant is usually water based, it can also be oil. The coolant air can be pumped or fanned through the radiator. The hot water radiator is copper pipe that is iteratively bent perpendicularly to create a heating surface of maximum area. The pipes follow the ridged lines. Through valves present at the bottom, water enters and exits. The pipes of copper are bent backward and forward ten to twenty times covering a maximum surface in order to give more heat. Large radiators have many such bents as they have a huge surface area that heats the full room in the building. The hot water that is pumped inside the radiators from the main heating boiler passes through the copper pipes, heats the outer surface and ultimately warms the room. A screw valve located at the bottom of each radiator helps in temperature control. These radiators are of two kinds namely single pipe & double pipe. The radiators of single pipe operate with steam whereas the radiators of double pipe operate with hot water or steam. The double pipe kind is the vintage radiator type that has the highest demand.



## | Products |

### COOLING TOWER FAN

We have Choice of Cooling Tower fan in Aluminium and FRP Available in different sizes from 0.45 m to 10 m dia. It's an efficient axial flow propeller type design and Adjustable pitch blades, more number of blades results in smooth and pulsation-free operation Our Cooling Tower fan Matched with all types of low noise cross flow Cooling Tower and counter flow cooling Tower.

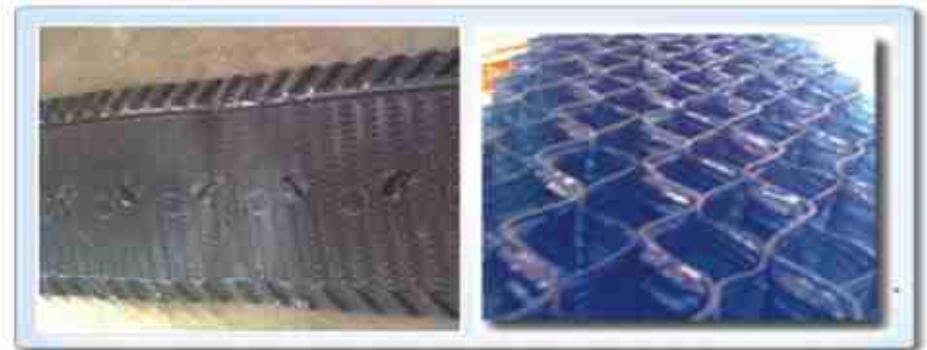


Cooling Tower Aluminium

FanCooling Tower FRP Fan

### COOLING TOWER FILLS

We have industrial major standard size of PVC FILLS like 12mm, 19mm, 27 mm flute size in 60°C Continuous Working Temp in two types 1) honey comb type PVC fills – these are the standard size of PVC FILLS, used in bottle shape and square shape Cooling Tower. This types of fill available in three different colour white, black and blue 2) double edges folded PVC Fills the durability increases this types of fill, it's available in two different colour black and blue. This fills are used in bottle shape, square shape Cooling Tower, Counter Flow Cooling Tower, Mechanical induced draft Cooling Tower.



Cooling Towers Fills



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### TUBE BUNDLE



#### Testing Of Tube Heat Exchanger

Owing to the complex nature of the tube heat exchangers, regular inspection of the equipment is necessary. This can help to assess the thickness of the tube walls that are prone to fitting, erosion and corrosion over time. The status of the whole bundle of tubes may be charted and assessed through a thorough inspection with the help of a device known as Internal Rotary Inspection System that functions via ultra-sonic testing and also has a non-destructive nature.

#### **Specification and servicing.**

We can manufacture a complete unit, replacement tube bundles (elements) or even a "parts kit" We replace existing tube bundle as per customer request we do size like Length upto 20,000 mm, Weight up to 20 M.T , Pressure up to 300 Kg/cm<sup>3</sup> Temperature up to 1000°C, Tube Plate Dia upto 4000 mm, Thickness up to 100 mm.

Janani Enterprises designing the tube heat exchanger is quite result oriented for process industries and for Oil Cooling. The tubes used internally are deliberately of various shapes and design to obtain different outcomes. While a few of the tubes may be plain, others may come finned longitudinally or horizontally. Additionally, the tubes can also be of various materials and thermal conductivity. For instance, Janani equipment can be designed from carbon steel, stainless steel, cupronickel, copper or brass.

### COOLING TOWER SPRINKLERS



We manufacturer and supply kinds of Aluminium alloy sprinkler head and PVC alloy sprinkler head We have size of aluminium alloy sprinkler head is from 2" to 12" with 4 way sprinkler; these are Good quality, reliable in use.



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## | Products |

### COOLING TOWER MOTOR

Janani equipment has all major branded Cooling Tower motors, our Cooling Tower motors are specially designed flange mounted motors in totally enclosed.

- They are provided with specially designed long shaft directly mount the fan blades.
- Cooling Tower motors also helps in the better cooling of the motor
- We have in different rpm level of Cooling Tower motors like 960,710,520 rpm
- Cooling Tower Motors are available ranging from 0.5HP to 30HP capacities.
- Cooling Tower motor is compact in design & perfect in weight to facilitate easy maintenance.
- All rotors are balanced on electronic dynamic balancing machine.
- This types of motors used in Cooling Towers and air conditioning and refrigeration industries & plants
- Higher efficiency and power factor ensuring lower power consumption and lower operating temperature of the motor
- 'F' class insulation



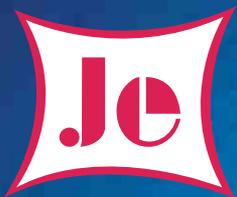
### COOLING TOWER NOZZLE

Janani equipment Cooling Tower nozzle is designed to discharge water spray into a confined area. The discharge pattern is long and narrow and will effectively protect long, narrow, passageways which are limited in height.

We have availability of different make Cooling Tower spares and nozzle.

- Although designed to protect water Cooling Towers, these nozzles may be used in other areas where lengths of throw up to 20 feet may be required.
- The Cooling Tower nozzle is then in its ready condition to fix in Cooling Tower.





## | Products |

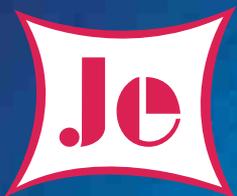
### WATER TREATMENT CHEMICAL

We are engaged in offering a wide range of Water Treatment Chemicals formulated using quality ingredients. The Water Treatment Plant, the ground water is softened using lime, filtered, fluoridated, and disinfected using chlorine. The Water Treatment Plant, the groundwater is softened using lime, filtered, fluoridated, and disinfected using chlorine extensively used to purify and treated water and making it suitable for industrial, domestic and household purposes. Our range of chemicals is developed to improve various problems associated with water treatment such as scale, corrosion, bio-fouling and suspended solids.

### Application

- Agriculture
- Airport • Cell tower
- Health care facilities
- Hotels and motels
- Industrial security
- Oil and gas exploration
- Radio and television station
- Sea port security
- Schools and colleges & universities
- Water & waste water plant
- Bio-chemistry lab
- Research centre





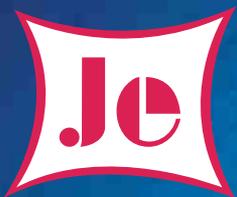
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M/S GSK	M/S ICI	
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### Chennai Branch

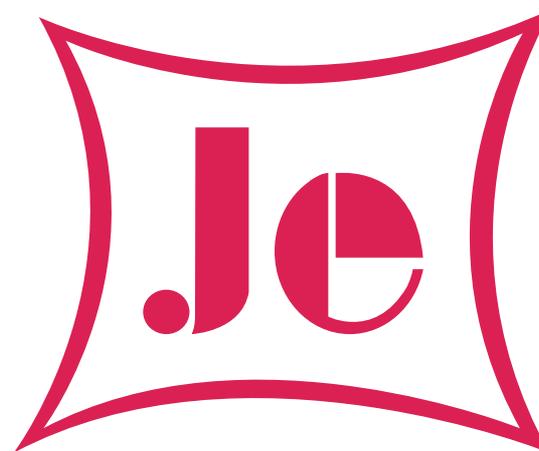
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Describe your requirements :

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Press Submit  
Then Press ALLOW to Send