

Cooling Tower



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's give good appearance flow rate from 5 M³/Hr To 550 M³/Hr gives differences in temperature 4°C To 30 °C Availability of Capacities from 5 TR To 600 TR.

Features

The bottle shaped FRP cooling tower is utilized in several industries and has the following features.

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 possibility of corrosion and rust gets minimized due to the framework steel components that are galvanized hot dip

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: The carry over losses due to moisture drops.

Fan: flow type fan that is aero dynamically designed is of well balanced construction. we have availability of **FRP fan** and **Aluminum fan**

Square Shaped Cooling Tower



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 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 it's give good appearance flow rate from 5 M³/Hr To 550 M³/Hr gives differences in temperature 4°C To30 °C Availability of Capacities from 5 TR TO 600 TR in single cell

Technical Features Of Square Cooling Tower

The flow of water ranges between 5 M³/Hr To 550 M³/Hr

The design easily blends with the architectural environs

The casing of the is of tough **Fiber 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 To30 °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

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

Dry Cooling Towers



Dry Cooling towers 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 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 corruptions 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.

Cross Flow Cooling Tower



The rectangular cooling tower or the closed type cooling tower or the cross flow cooling tower has a range of cooling capacity of a single cell cooling tower of around 70M³/Hr to 300 M³/Hr. The suitable refrigeration is between 120 and 440. 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 M³/Hr To 550 M³/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 Polyester).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.

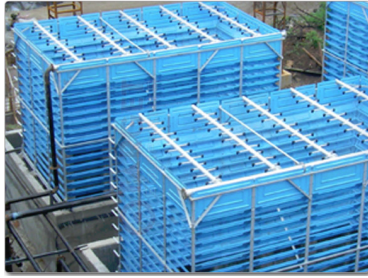
Available with PVC fills or treated wood fills,

In virtually unlimited capacity

The 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.

Natural Draft Cooling Towers



Our natural draft cooling tower not required any fan are fills, no maintenance like other cooling towers, non clock nozzle are easy to cleaning reduce spillage and evaporation loss. Hat 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 application.

Capacities

Natural draft cooling tower Availability of Capacities from 5 TR TO 1000 TR in Single cell

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 200,000/m/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 tier 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 tepid air causes reduced performance. This gets reduced by the high distance between the air outlet and inlet of the tower.

Wooden / Timber Cooling Tower



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.

Capacity Of Cooling Tower

Induced draft timber cooling tower are design with our well experience engineers, they usually design according to 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

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 Filling

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

Cooling Tower Distribution System

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

Cooling Tower Mechanical Equipment

Cooling tower fan 4 or more aluminium blades, each can adjustable individually attached iron hub, oil gauge shall be extended outside the fan

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

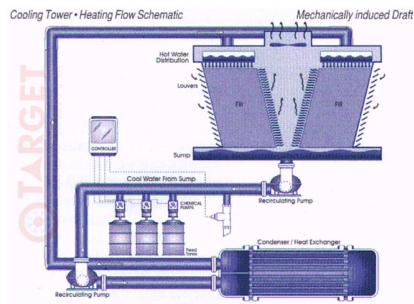
Our quality of wooden cooling tower design is superior

This wooden cooling tower provides a fill pack that is wooden and a sprinkler in a design that maximizes efficiency and economy.

Target equipments wooden cooling tower is highly reliable as well as durable

Target equipments Cooling Towers fans and sprinkler provide great cooling in an area of minimum plan , with reduced energy

How our System Works



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
Drift Eliminator	A system of higher efficiency, double pass and single bank , specially created for maximum removal of droplets of water at velocities of operating face
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
Target 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.