

1st time in India Dry Cooling Tower Installed for 30 MT Induction Furnace and CCM 3 STAND Machine (Primary Cooling)



C Series

COUNTER FLOW
CROSS FLOW
DRY COOLING TOWERS
NATURAL DRAFT TOWERS
WOODEN COOLING TOWERS

Industrial COOLING TOWERS

| Heavy Duty | Higher Capacity | Water Saving | Maintenance Delight |

Classik Cooling Towers an ISO 9001 : 2015 Certified, dynamic company, leading in the field of cooling tower technologies. We offer single source responsibility for complete water-cooling solutions to all industries.

Classik success has been the result of a continual commitment to product improvement, quality workmanship and dedication to provide unparalleled service.

Our Emphasis on research and development has led to many product innovations – a hallmark of CLASSIK through the years.



Save Water and Save Earth

Water being a precious resource, needs to be conserved by one and all. Industries need water to remove the heat from their equipment and machineries. Cooling towers remove this heat from the processed water & by doing so ensures water consumption & sewer costs are conserved.



Corporate Member of CTI



Classik Commitment to Quality Service

CLASSIK commitment demands delivery of the technologically best product performance available anywhere but it reaches far beyond that.

CLASSIK commitment to quality and service has given us many satisfied clients over the past years. We strive for good performance at minimum maintenance cost.

Classik Strength

More than 22000 Satisfied Clients World-wide. Accepted by Major OEM and Consultants Globally.

We have Integrated full-fledged Manufacturing Unit to cater any tailor made requirements.

Technocrats, R&D Engineers, Dedicated Workforce, Professional Employees join together to produce Excellent Cooling Towers and after market services.



Chronology

- 2000 - Established in Coimbatore, Manchester of South India.
- 2001 - Major supplies to Steel and Power Industries.
- 2002 - First Export to Nigeria 500 TR x 3 Nos.
- 2003 - Corporate Member of CTI (Cooling Technology Institute, USA)
- 2004 - ISO 9001 : 2001 Quality System Certification First Dry Cooling Tower installed at Textile Industry, India
- 2005 - First International Exhibit at Sri Lanka (SME '04) and Vietnam (HVACR '04)
- 2006 - Major Export to Middle East.
- 2007 - More than 100 units of Wooden Cooling Towers installed at Effluent treatment plants.
- 2008 - Equipped for Mfg. of PVC Fills Media for Cooling Towers.
- 2009 - Massive Closed Circuit Cooling Tower successfully run at Iraq.
- 2010 - Modular Cooling Tower 2500TR x 5 successfully installed at Saudi Arabia. 2500TR x 2 installed at Egypt. Exhibit at Egypt, INDEE, Cairo
- 2011 - Exhibit at Saudi Arabia, Upgraded to integrated manufacturing Company with 81,000 Sq. ft.
- 2012 - 1st time in India Dry Cooler Installed and successfully performed for 30MT Induction Furnace.
- 2013 - 1st time in India Dry Cooler installed for CCM (Concast Machine) 2 stand machine primary cooling.
- 2014 - Designed & Exported 6000 TR Double Cross Flow Cooling Tower in Dubai.
- 2015 - Dry coolers Design Data Selected by World Famous Coil Solution Software & Dry Cooling Tower with SS Tubes designed and exported to Saudi Arabia with a capacity of 2500Kw.

Counterflow Cooling Towers (CCF Series)

Being **Bottle Shape** with – stands High Wind Velocity. 360 Degree Air Intake and uniform water spray assures maximum thermal efficiency.

Eliminators are of special F.R.P design to reduce carryover to the barest minimum.

A high efficient nylon rotating sprinkler head system and aluminium alloy sprinkler system is incorporated. Both sprinkler systems are self - rotating at low head loss.

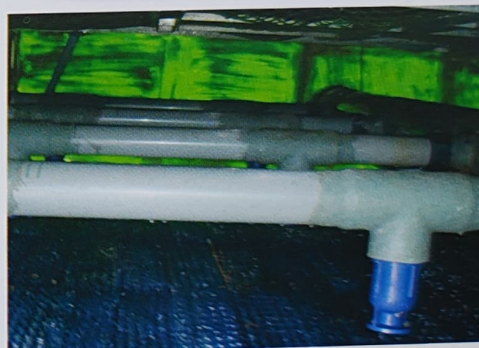
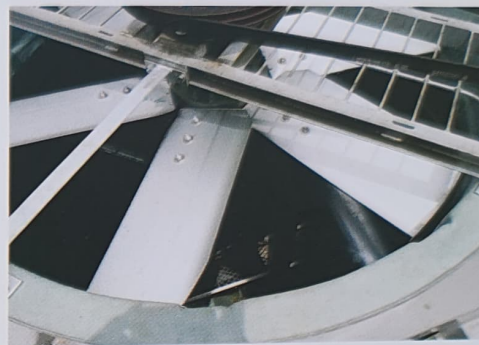
The axial flow fibre fan is not only low noise but capable of producing large volume air flow.

Aero – dynamically designed propeller fans at low speed are used to save power as per consumption and to assure quiet operation. Fan blade is aluminium alloy also available.

The **Square design** incorporates the static spray nozzle distribution to atomize water into mist state and ensure uniformity in water dispersion and are easy to maintain even during the operation.

Our cooling Towers are designed for multi-cell construction, thus offering better flexibility in tower selection and operation.

The tower is reassembled in the factory, knocked down into some unit, transported to the job site and reassembled into the final shape. The quality is thus stable. The transport and set-up is easy and quick.



Crossflow Cooling Towers (CXF Series)

Hot water Basin Constructed of Fibre Reinforced Plastic (FRP), Fitted with Polypropylene flower nozzles for even distribution.

Nozzles are easy maintainable even while in running condition.

Pump Power is conserved since gravity would suffice water inlet.

Incorporate multi blade cast aluminium adjustable pitch fan assembly driven by special TEFL IP 55 protected motor with Low RPM and higher air discharge.

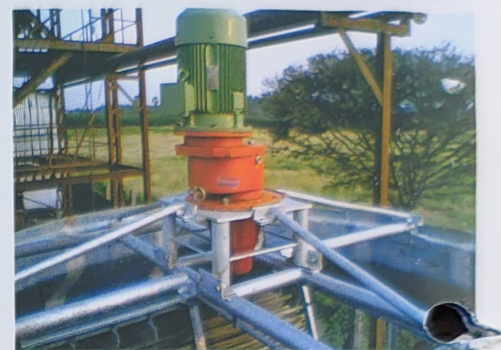
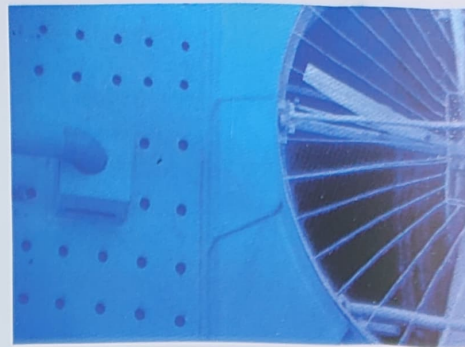
The fan coupled directly or belt driven to the motor is placed vertically / horizontally to draw the air across the fill media.

The treated pine wood splash bars are supported on Stainless Steel Grid to ensure positive and permanent positioning.

The design incorporates accommodation of water with very high TDS factors.

The tower structural and supporting sections are Hot Dipped Galvanized with SS 304 Bolts and Nuts. Suitable for Hot, Harsh and Humid atmospheric industrial conditions.

The standard cladding profile of corrugated asbestos cement sheet, the joint of which are lapped to minimize water spillage.



250TR x 4 Shopping Mall



2000TR - Steel Rolling Mill



600TR - Chemical Process Plant



Closed Circuit Cooling Towers

The Water losses are 0.01%, the closed loop type and the towers are most space saving / energy efficient one's.

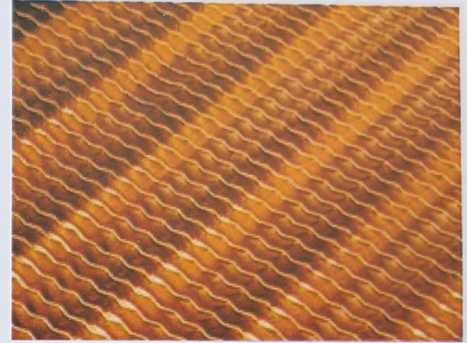
Dry cooling towers are in a single unit, which can be provided in capacities from 100 kw to 1500 kw and they can be multiplexed to reach many thousands of kilowatt.

The fluid coils of international standards are designed with copper tubing and aluminium foil fins and selected through software providing accurate data on thermal transfer rate based on which they are manufactured.

The evaporative cooling towers essentially combines a cooling tower and a condenser coil in single equipment. A small quantity of water is evaporated, removing heat from the primary circuit and cooling it inside the coil.

Therefore, like a cooling tower, all of the heat rejection is by evaporation, thus saving about 95% of water normally required by a "once-thorough" system.

Set of evaporative cooling towers was being tested at our factory with real heat load, with required water flow and was exported to Iraq after confirming the performance.



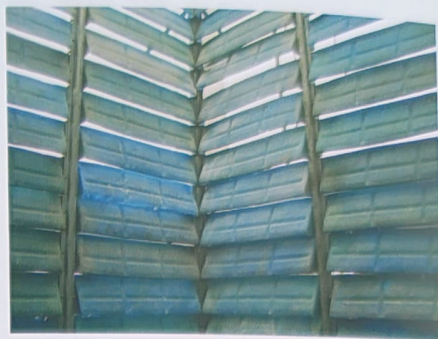
Climatic Cooling Towers

Devoid of either the fan or the fill media these towers are guaranteed for 100% savings in power & maintenance down time. The special aero dynamic designed FRP / GI louvers minimize spillage and evaporation losses.

The Hot Dipped Galvanized structural and S.S. fasteners increase the life periods of the towers.

The unique non clog nozzle atomizes water to fine mist state to ensure efficiencies of the towers and are easily maintained even during operations.

In this process, water gets cooled and the air gets heated / saturated thereby carrying away some sensible heat from water.



Heat Exchanger

Shell & Tube Heat Exchanger suitable for heat transfer fluids. Lubricating oil, power pack oil and other process coolants. Models available in wide range (4" to 10") shell diameter suitable for load 1500 Kcal/Hr to 75000 Kcal/hr. (2Hp to 100Hp).

Plate Heat Exchanger is made of 2 frames and a number of plates, that depend on the volume to be exchanged. This method allows the disassembly of the PHE for cleaning, taking down the plates from the free side without the need to disconnect any pipes.



Plate Type Heat Exchanger



Inter Cooler & After Cooler



Shell & Tube Bundle



Engineering Specification

Each cooling tower is manufactured to cool liters of water per minute from ____°C (HW) entering water temperature to ____°C (CW) leaving water temperature at ____°C (WB) entering wet bulb temperature.

The cooling towers are guaranteed to perform in accordance with the conditions specified without any modifications.



Structure

The cooling Tower Casing shall be constructed from FRP (Fiberglass Reinforced Polyester). Structure shall be constructed from HDG (Hot Dipped Galvanized) steel.



Basin

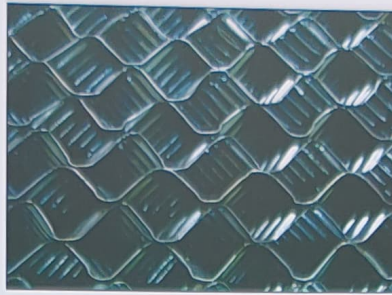
The basin sump shall be constructed from HDG steel. The basin shall be made of FRP and equipped with drain outlet for ease of cleaning.



Air Inlet Louvers

Air Inlet Louvers shall be made from FRP Designed to prevent water splash-out and to increase air intake air volume. Louvers are designed to be easily removable

intended for easy access to cleaning.



Infill

Infill shall be of ultra-violet ray treated PVC (Polyvinyl Chloride). The PVC infill shall be vacuum-formed to facilitate a good spread of water over the surface area. It also incorporate a built-in drift eliminator.



Water Distribution System

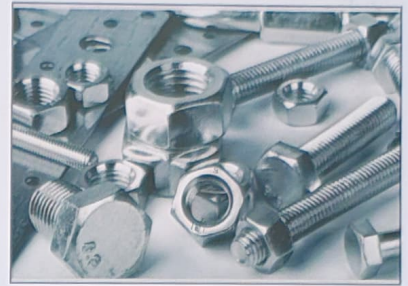
The hot water distribution shall be of open gravity type basin. It shall be constructed of HDG Steel designed with multiple array of holes to facilitate even distribution of stable water sprinkling effect.



Mechanical Equipment (Fan Section)

Fans shall be axial flow type with FRP blades. The fans shall be designed to provide necessary air flow for heat transfer. Fan blades shall be assembled, balanced and pitched. The fan shall operate within a FRP fan cylinder, which provides a streamlined air entry and minimum tip clearance for

maximum fan efficiency.



Bolts & Nuts

All Bolts & Nuts shall be of 304 Stainless Steel materials.



Motor

The fan motor(s) shall be to IP55 Standard with Class F insulation, specifically designed for cooling tower service. The motor shall be located on top of the fan cylinder for ease of maintenance also available motor shall be fully outside of the moist discharge of air stream.



Mechanical Support

The Mechanical Support shall of HDG Steel and bolted to the top of fan cylinder. HDG Steel fan guard shall be bolted to the top of mechanical support for safety measure. Extended lubrication lines shall be provided to the bearings with grease nipples located outside for ease of schedule maintenance.