

Energy Efficient Wet & Dry Thermal Cooling Solution



About Aerotech

“Aerotech covers the entire spectrum of process cooling technology. This drives our ability to meet future challenges.”



AEROTECH ENERGY PVT. LTD. is an ISO certified Company, incorporated in 1997, to provide specialized engineering services in energy sector. We are headquartered in Mumbai, Maharashtra. We have manufacturing facilities spread over 8000 m² area in WADA, Maharashtra (India). Depending on customer requirements, we can provide any type of cooling solution for power generation efficiency while assuring cooling water economy. Our rich product portfolio ranges from all dry air cooled condenser (ACC) and Heller technologies to all wet cooling towers, with limitless dry/wet combination systems and evaporative add-on solutions in between.

We have specialty in manufacturing Air Cooled Condensers, Air Cooled Heat Exchangers, Evaporative Condensers, Cooling Towers, Energy Efficient FRP Axial Flow Fans & upgradation of all kinds of cooling systems & many FRP products for industrial application.

“The process of cooling industry is changing and AEROTECH is always evolving to match these changing needs.”



Products

1. WET COOLING SYSTEMS:

- ▲ Pultruded FRP
- ▲ Treated Timber
- ▲ RCC
- ▲ Package FRP

2. DRY COOLING STEAM SYSTEMS:

- ▲ Air Cooled Steam Condenser
- ▲ Air Cooled Heat Exchangers

3. EVAPORATIVE CONDENSERS:

4. ADIABATIC COOLING TOWERS

5. ENERGY EFFICIENT FRP AXIAL FLOW FANS

Unique Aerodynamic & Thermal Design

We have so far replaced more than 5000 cooling tower and air cooled condenser fans as well as other types metallic and solid FRP industrial Axial Flow fans with our Energy Efficient light weight FRP Hollow Bladed Axial Flow Fan Assemblies where clients got advantage of good power saving or improved air flow with existing motor rating.



Air cooled steam condenser

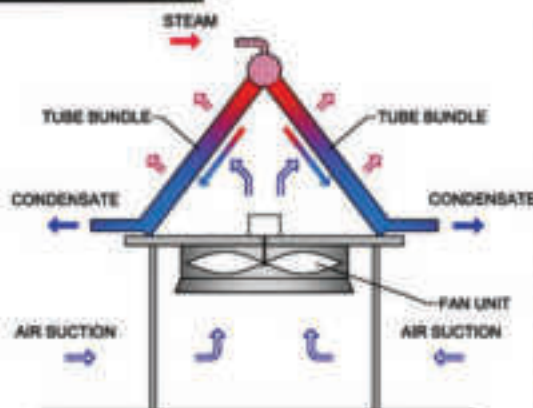
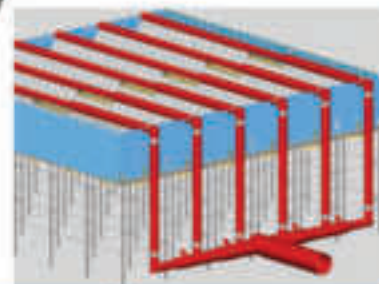
Considering the present socio-enviro scenario the huge deficits of natural resources are making projects non-viable & availability of water is one of them. One has to explore the alternatives which can minimize need of water to make the projects feasible and keep running.

Dry Cooling Division specializes in the design, manufacturing, supply and erection & commissioning of following products for Oil & Gas, Power, Chemical and Petrochemical plants

Air Cooled Heat Exchangers (or) Fin Fan Cooler or Air Fin Coolers are mainly used for Heat rejecting from a hot process fluid to the surrounding atmosphere by using the atmospheric air as a cooling media. Air Fin Coolers are basically designed with multiple rows of finned tubes in a series of surface and required numbers of fans to move the low temperature atmospheric ambient air over the finned tube coil surface in order to cool the hotter fluid media.

Single Row Fin-Tube : Single Row Finned Tube shall be manufactured exactly as per geometrical details (pitch, fin height, fin size, base tube dimension etc.) as specified in the drawing supplied.

Air Cooled Steam Condenser comprises of Tube Bundles with Circular / Flat / Elliptical finned tubes fixed at a height on a "A" or V - frame structure at an angle of 60 Deg. Axial Flow Fan mounted at the lower vertex of the 'A' or 'V' frame throw the cooler air at ambient temperature into the 'A' or 'V' frame.



Cooling Tower

Cooling towers are usually designed for specific purposes. Not all cooling towers work for all applications or industrial processes. Here we help you understand the various types of cooling towers, their advantages/disadvantages and determine which cooling tower type is right for your industrial process. Check out the cooling tower list and parts list that provides an overview of cooling tower types to help you figure out which tower is right for your industrial application and what replacement parts you might need.

- **Cross Flow Cooling Towers**
- **Counter Flow Cooling Towers**
- **Forced Draft & Induced Draft Cooling Towers**
- **Factory Assembled Cooling Towers (FAP) Factory Assembled Product**
- **Field-Erected-Towers (FEP) Field Erected Product**

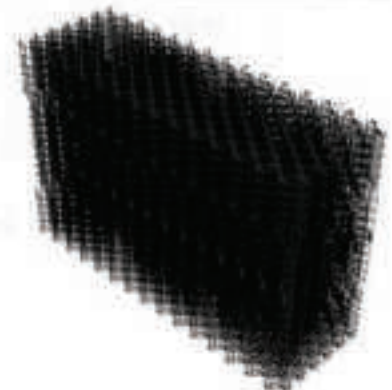
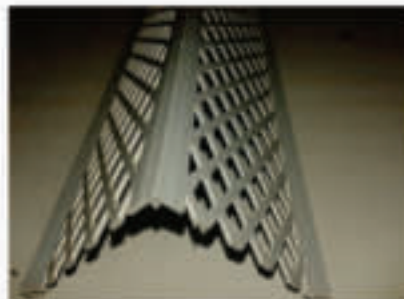
Aerotech strived to improve and perfect cooling tower design from many number of different perspectives, such as thermodynamics and construction engineering

To meet stringent time frames imposed by the market for the erection of these structures in pultruded FRP, treated Timber, RCC.

Furthermore, advance technology is used in prestigious projects.

The efficiency of heat exchange and low clog characteristics of each components have been extensively investigated, resulted in numerous progress.

Our large variety of fills allows us to select the optimal solution for each projects, Taking into consideration water characteristics in cooling tower, Aerotech able to select most suitable from variety of fills, Water distribution, efficient nozzle and achieve required air flow with energy efficient fans. Drift eliminator has been developed aerodynamically for low pressure drop & entrapment of drift.





In evaporative condensers, both air and water are used to extract heat from the condensing refrigerant. Evaporative condensers combine the features of a cooling tower and water-cooled condenser in a single unit.

In these condensers, the water is sprayed from top part on a bank of tubes carrying the refrigerant and air is induced upwards. There is a thin water film around the condenser tubes from which evaporative cooling takes place. The heat transfer coefficient for evaporative cooling is very large. Hence, the refrigeration system can be operated at low condensing temperatures.



Evaporative Condenser

Energy Saving Fan

The cost of power has been prompted to the industries look in to equipment s to reduce energy consumption with Aerotech make FRP hollow bladed fans for Air Cooled Condenser, Cooling Towers, Air Cooled Heat Exchanger, Ventilation & Entire range of Axial Flow Fans for industrial applications.

Unique manufacturing and balancing methodology ensured high quality as well as trouble free operation throughout the life.

Aerotech in-house technology & more than 20 years of experience grant a qualification to the industries for reliable source of all our products.



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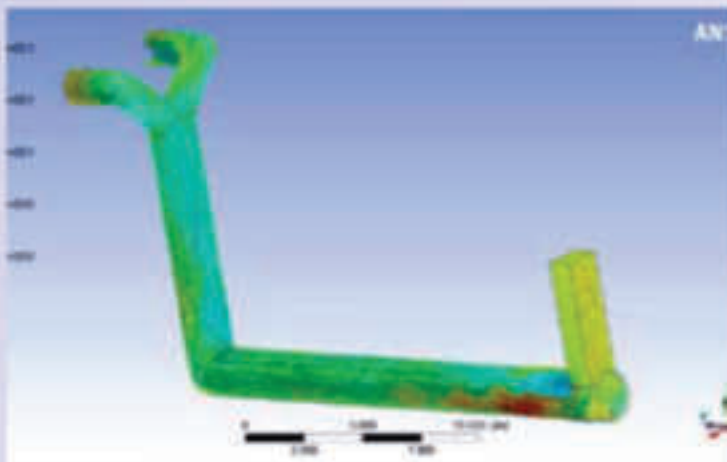
Performance & Technology

Over the years, **Aerotech** has built competency and made inherent know how in the designing of **Air Cooled Condenser, Cooling Towers, Thermal Performance Enhancement** on conventional Non performing system energy efficient fans & complete heat transformation system.

Strength of the company has significant role in solving specific problems on any of ACC & CT.

Aerotech provide fully customized design to meet customer specific requirements. Aerotech well equipped with all kinds of relevant established software to ensure the best guaranteed engineering solution.

Aerotech strives to achieve the continuous improvement in design as well as the manufacturing technology.



Quality & Safety

Aerotech products are manufactured with quality assurance to perform under most stringent operating criteria for years after installation. We emphasize on superiority of design and construction which apply to every product through vigorous quality managements at every level plus commitment to quality which is at the heart of our organization.

“Aerotech Quality & Safety is the important aspect in our production line. We have implemented and maintained a standard for every process of production and installation.”

In fact "Aerotech" products are supplied and installed all over India and overseas, making us the biggest as well as the best manufacturer of cooling system.



Services



AEROTECH service analyzes the inventory and the potential for improvement at the customer's plant so that an ideal and customized solution can be found, careful control and adherence to global standards ensures that you will receive the quality you would expect from the plant manufacturer at local hourly rates.

Our vast experience in upgradation of existing Cooling Towers and Condensers constructed by any of the other manufacturers confirms our experience and versatility.

AEROTECH can also provide on-site service assistance, guaranteeing the performance of the plants that we install (build, operate and maintain). This ensures that our clients operations will not suffer due to poor performance and no additional charges are made for repair or replacements.

- ▲ Solution for Thermal Upgradation
- ▲ Solution for Maintenance Free ACC & CT Technology
- ▲ Solution for Energy Saving
- ▲ System Services and Spares
- ▲ Spare parts delivery and installation
- ▲ Service framework agreements, Service and maintenance
- ▲ Inspections and evaluations
- ▲ Installations and removal, Cleaning work
- ▲ Complete replacement of heat exchanger bundles and fills
- ▲ Overhaul and upgrade of fans, motors and gearboxes
- ▲ Refurbishment, increase in efficiency and optimization of cooling towers of all kinds
- ▲ Complete overhaul of the entire cooling units and systems
- ▲ Construction of fan-assisted cooling towers

All work, including necessary engineering services and procurement, under one roof.



Worldwide Reference



USA | Nigeria | UAE | Zambia | Bangladesh | Thailand
Saudi Arabia | Australia | Spain | Malaysia | Pakistan
Singapore | Italy | Philippines | Kenya | UK | China





Our Clientele



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