



CORPORATE BROCHURE

ADVANCE  TM
shifting gears

Meeting global cooling needs for more than 35 years

AN ISO 9001 : 2015 CERTIFIED COMPANY

VISION & MISSION

VISION

Advance Cooling Towers envisions being the preferred manufacturer of choice in the cooling tower industry by offering our customers products and solutions that will bring significant value addition in the domains that they operate in.

Advance has always been one step ahead, staying true to its brand name. Our zest to innovate, break traditional barriers and

remain customer centric in all our endeavours has helped us chart a significant course in the cooling tower industry, over the last three and a half decades

MISSION

- To consistently invest in research and development, technological improvements and in building a robust service network.
- To develop products and solutions that have a distinct advantage in the market in terms of quality, cost and energy efficiency.
- To ensure unparalleled after sales service.
- To be committed to continuous improvement and respond to changing customer needs promptly and effectively.



We manufacture
Induced Draft Counter /
Cross Flow Cooling Towers.

A SERIES

'A' series of cooling towers are engineered to meet the required performance in diverse working conditions. Its performance is certified under CTI-STD 201 certification programme. The validation of this certification is done every year by CTI licensed third party testing agency. 'A' series is an outcome of our extensive R&D and is referred as 'Premium series' by our clients for its phenomenal performance. It is structurally robust to withstand harsh working conditions.



KEY FEATURES

- CTI certified series, with components complying to CTI STD.
- MOC: MSHDG / SS304 / SS316 / Pultruded FRP with option of fully Metallic tower.
- Standard 4 pole, IE2 Motor with option of IE3 / IE4 / FLP / VFD / Electronically Commutated.
- Equipped with Belt drive system with option of Direct drive / Gear drive.
- Axial fans with aerodynamically designed blade profiles with option of ultra-low noise fan.
- Pultruded FRP flap type air inlet louvers with option of cellular louvers.
- Ladder, platform and safety railing facilitate ease of maintenance.
- Aesthetic smooth finish on both sides of FRP panel and water basin.
- Multi cell option available with single cell capacity of 80 TR to 3000 TR.
- Option available for with / without basin.



NTM SERIES

'NTM' series of cooling towers are engineered to meet the required performance in diverse working conditions. It is the latest addition in portfolio of our CTI certified cooling towers. Its performance is certified under CTI-STD 201 certification programme. The validation of this certification is done every year by CTI licensed third party testing agency. It is structurally robust to withstand harsh working conditions.

KEY FEATURES

- CTI certified series, with components complying to CTI STD.
- MOC: MSHDG / SS304 / SS316 / Pultruded FRP.
- Standard IE2 Motor with option of IE3 / IE4 / FLP / VFD / Electronically Commutated.
- Equipped with Direct drive system with option of Gear drive.
- Axial fans with aerodynamically designed blade profiles.
- Pultruded FRP flap type air inlet louvers with option of cellular louvers.
- Aesthetic smooth finish on both sides of FRP panel.
- Multi cell option available with single cell capacity of 30 TR to 400 TR.
- Option available for with / without basin.

RM SERIES

'RM' series of cooling towers are engineered to meet the required performance in diverse working conditions. 'RM' series is an outcome of our extensive R&D and is referred as 'Premium series' by our clients for its phenomenal performance. It is structurally robust to withstand harsh working conditions.

KEY FEATURES

- Cooling tower components complying to CTI STD.
- MOC: MSHDG / SS304 / SS316 / Pultruded FRP with option of fully Metallic tower.
- CT offered with different types of fills in various depts to meet site specific requirements.
- Standard 4 pole IE2 Motor. An option of IE3 / IE4 / FLP / VFD / Electronically Commutated motors is available.
- Equipped with Belt drive system with option of Direct drive / Gear drive.
- Axial fans with aerodynamically designed blade profiles with option of ultra-low noise fan.
- Pultruded FRP flap type air inlet louvers with option of cellular louvers.
- Ladder, platform and safety railing facilitate ease of maintenance.
- Aesthetic smooth finish on both sides of FRP panel and water basin.
- Multi cell option available with single cell capacity of 80 TR to 5000 TR.
- Option available for with / without basin.





KR SERIES

'KR' series of cooling towers are engineered to meet the required performance in diverse working conditions. It is structurally robust to withstand harsh working conditions.

KEY FEATURES

- Cooling tower components complying to CTI STD.
- MOC: MSHDG / SS304 / SS316 / Pultruded FRP.
- Standard IE2 Motor with option of IE3 / IE4 / FLP / VFD / Electronically Commutated.
- Equipped with Direct drive system with option of Gear drive.
- Axial fans with aerodynamically designed blade profiles.
- Pultruded FRP flap type air inlet louvers with option of cellular louvers.
- Aesthetic smooth finish on both sides of FRP panel.
- Multi cell option available with single cell capacity of 15 TR to 500 TR.
- Option available for with / without basin.

DM SERIES

'DM' series is the modular round bottle design series of Induced Draft Counter Flow cooling towers. It is equipped with a rotating distribution system, and its high quality fiberglass provides robustness and longevity. DM series towers are highly acclaimed by industry veterans for its excellent performance and endurance. It is structurally robust to withstand harsh working conditions.

KEY FEATURES

- Round bottle shaped cooling tower.
- Cooling tower components complying to CTI STD.
- MOC: FRP with MSHDG / SS304 / SS316.
- Equipped with Direct drive system.
- Mesh at air inlet.
- Capacity 5 TR to 300 TR.
- Options available with / without FRP basin.
- Rotating Sprinkler (MOC: Aluminium / SS304) for water distribution.





LARGE INDUSTRIAL CT

ACTPL have developed these large capacity industrial cooling towers to cater the need of industrial segments especially Chemical, Pharma, Food Processing, Metal, Sugar and Captive Power Plants. These towers are designed for higher efficiency, energy water conservation and ease of maintenance. Multiple fill options are available as per the process requirement to handle extreme water quality.

KEY FEATURES

- Engineered for wide range of Industrial operating conditions.
- Single cell design with maximum capacity upto 6000 Tr at standard operating parameters-(36/32/28 deg C)
- Maximum water flow capacity of around 4500 cmh / cell
- Available in CTI STD 201 certification.
- Designed for High Wind speed up to 55m/s in accordance to IS 875.
- Seismic Load considered as per IS 1893 .
- Fiber Reinforced Pultruded Frame structure makes it highly resistive to sea water application.
- Stiffened with diagonal braces to transfer wind, earthquake loads.
- Motor placed outside the Fan stack which prevents the motor coming in contact with highly corrosive moist air.
- Drive shaft connected motor and Gear box, Hand Rail, Walkways and Ladders are available.

SM SERIES (CROSS FLOW CT)

ACTPL has developed, cross flow cooling towers keeping in view the industrial segments especially in chemical, Pharma, Food processing, Metal, Sugar, and captive power plants. These towers are designed for higher energy efficiency and the actual site requirements resulting in reduced energy losses in Motor, FAN, Transmission drive etc and overall improvement in capability of cooling towers. These CTs are also good for easier maintenance of the complete unit. These cooling towers are designed with custom fill options capable of handling extreme water quality available at site.

KEY FEATURES

- Engineered for wide range of Industrial operating conditions.
- Single cell design with maximum capacity up-to 1600 TR at standard operating parameters-(36/32/28 deg C)
- Maximum water flow capacity of around 1250 CMH / cell
- Available in CTI ATC-105 performance requirement.
- Designed for High Wind Loads. (As per IS 875).
- Structural integrity against seismic Loads. (As per IS 1893).
- MOC option of Fiber Reinforced Polymer - Pultruded Frame structure makes it highly resistive to corrosion under sea water application.
- Louvers, Platform, Hand Rail, Walkways and Ladders are available.



ADVANCE INITIATIVES

CT WITH EC FANS

- After intensive R&D, Advance is ready to offer CTs with EC (Electronically Commutated) fans.
- This step would be a forward leap in energy saving initiatives.
- CTI certification is in process for CT with EC fans.

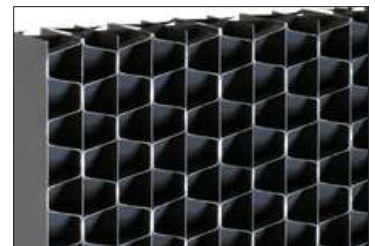


SITE SPECIFIC FILLS

- ACTPL is offering various types of fills suited for specific site conditions.
- Fill types vary depending on water quality available, from very soft to very harsh water.
- ACTPL has tested all the fills and provide fills which does smooth consistent performance without choking due to scaling, fouling etc.

DRIFT ELIMINATORS & LOUVERS

- ACTPL offers options of Drift Eliminators with very low drift rate in industry. It will save precious water and helps in avoiding Legionella disease spread.
- Option of cellular louvers helps to avoid water loss due to splashing. It also absorbs noise and restricts entry of external garbage into CT.



FM CERTIFICATION

- ACTPL is always been a leader for incorporating global standards, developing FM certified cooling towers is the latest achievement.
- These CTs would be the most secure equipment capable of safe operations against internal/external hazards.
- Once certification is completed, ACTPL will be the first Indian CT manufacturer to have it.

INHOUSE TESTING FACILITIES

THERMAL TESTING

Fully equipped Thermal Test Rig provides precise and accurate thermal performance evaluation and viability of implementing cutting edge tech in ADVANCE Cooling Towers.

FAN BALANCING SETUP

Every ACTPL make fan assembly is dynamically balanced on the state-of-the-art Dynamic Balancing test bench.

MATERIALS LAB

Our Material test lab provides an in-depth analysis of components to ensure prolonged quality life of cooling tower.



SERVICES WE OFFER

DESIGN & TECHNICAL ADVISORY / CONSULTING

Our unmatched experienced staff offers performance audits and consulting to provide engineering solutions for: Increasing capability, Eliminating Redundancy, Longer operations, Energy saving, Water saving, Noise reduction, Safety accessories, and many more.

REFURBISHMENT / RETROFITS

With decades of experience, our highly experienced team can restore your towers to optimal condition in case of: Cooling towers nearing to end of its life cycle, increased operational demand, underperforming cooling tower.

THERMAL PERFORMANCE TESTING

With presence of highly precise instruments and competent staff we can provide onsite impartial testing as per CTI ATC – 105 to help our customer aware about the current performance of existing cooling tower.

ONSITE INSPECTIONS

In addition, with after sales services, our experienced service engineer's team also enable us to perform keen inspection of cooling tower irrespective of the type or make.

We are proud member of :



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