



**GIRESH
COOLING TOWERS**

COOLING TOWER PRODUCTS

Our commitment to quality, integrity, and customer satisfaction is evident in every aspect of our operations.

More Info

www.gireeshcoolingtowers.com

Call Us

+91 99527 15671

SSCT - Series

Square Shape Cooling Tower



The Square Shape Cooling Tower is designed for efficient heat rejection while optimizing installation space. Its compact square configuration allows easy placement in industrial plants where space utilization and modular expansion are important.

Constructed using high-quality Fiber Reinforced Plastic (FRP), the tower offers excellent resistance to corrosion, chemicals, and harsh weather conditions. This makes it ideal for long-term operation in industries such as power plants, HVAC systems, chemical processing, and manufacturing units.

The tower operates on the counter flow principle, where hot water flows downward through specially designed PVC fills while ambient air is drawn upward by an induced draft fan located at the top of the tower. This opposite flow pattern maximizes heat transfer efficiency and improves cooling performance.



- High Efficiency **Counter Flow Design** for maximum cooling performance
- Corrosion Resistant **FRP Structure** suitable for harsh environments
- Space Saving **Square Shape** Design for easy installation
- Energy Efficient **Induced Draft** Fan System
- High Performance **PVC Fill** Media for improved heat transfer
- **Low Maintenance** with Long Operational Life

Bottle Shape Cooling Tower

BSCT - Series

The Bottle Shape Cooling Tower is specially designed to provide high cooling efficiency while maintaining a compact and aesthetically optimized structure. Its unique bottle-shaped configuration enhances airflow dynamics and ensures better thermal performance, making it suitable for installations where both efficiency and structural stability are important.

Manufactured using high-quality Fiber Reinforced Plastic (FRP), the tower offers superior resistance to corrosion, chemicals, UV exposure, and extreme weather conditions. This durable construction ensures long service life and reliable operation in demanding environments such as power plants, HVAC systems, plastic industries, chemical processing units, and various manufacturing facilities.

The tower works on the counter flow cooling principle, where hot water is distributed from the top and flows downward through high-efficiency PVC fills. At the same time, fresh ambient air is drawn upward by a powerful induced draft fan mounted at the top of the tower. This opposite movement of air and water increases contact time, maximizes heat dissipation, and significantly improves overall cooling efficiency.



- **Aerodynamic Bottle Profile** for optimized airflow and superior cooling efficiency
- **Robust FRP Construction** offering excellent corrosion and chemical resistance
- Space-Saving **Vertical Design** ideal for tight industrial layouts
- Energy-Efficient **Induced Draft** Fan System for reliable performance
- High-Performance **PVC Film Fill** for maximum heat transfer
- Low Maintenance Design with **long operational life**

WCT - Series

The Wooden Cooling Tower is engineered for high-efficiency cooling while offering a durable and environmentally friendly construction. Built from high-quality treated timber, the tower resists moisture, decay, and fungal attack, ensuring long-term performance in demanding industrial conditions.

Hot water passes through specially designed splash fill media, while ambient air is drawn through the tower. The inclusion of drift eliminators prevents water droplets from escaping with the airflow, ensuring efficient cooling while minimizing water loss. This makes the tower ideal for power plants, chemical processing, HVAC systems, and manufacturing units.



Wooden Cooling Tower



- **Durable Treated Timber Construction** resistant to decay, rot, and fungal growth
- **High-Efficiency Cross Flow Design** for optimal heat dissipation
- **Splash Fill Media** for enhanced water-air contact and cooling efficiency
- **Drift Eliminators** to minimize water loss and prevent droplet carryover
- **Energy-Efficient Induced Draft Fan** for consistent airflow
- **Low Maintenance Design** with long operational life
- **Environmentally Friendly** and Sustainable Material Choice

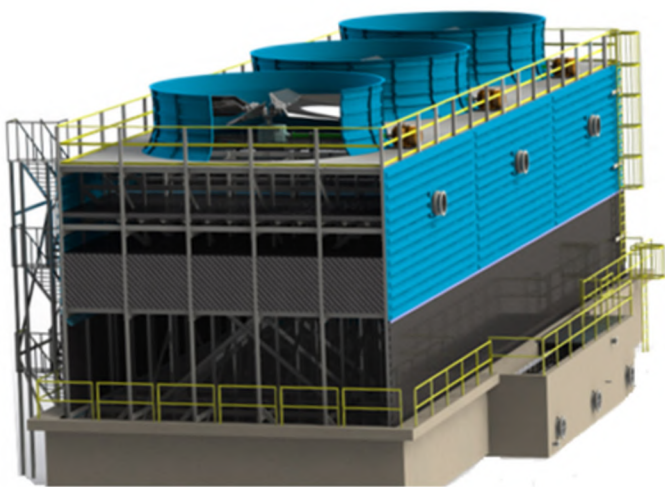
Pultruded FRP Cooling Tower

PCT - Series

The Pultruded FRP Cooling Tower is designed for superior cooling efficiency while providing a lightweight, corrosion-resistant, and maintenance-friendly solution. Constructed from high-strength pultruded fiberglass reinforced plastic (FRP), the tower offers exceptional durability against chemicals, UV exposure, and harsh environmental conditions, ensuring long-term, trouble-free operation.

Hot water flows through engineered splash or film fill media, while ambient air is drawn through the tower. Counterflow designs allow air to move upward against the downward flow of water for maximum heat transfer efficiency in compact installations, whereas crossflow designs let air flow horizontally across the descending water stream for easier maintenance and inspection. The inclusion of drift eliminators minimizes water loss, while the FRP construction ensures resistance to corrosion, scaling, and microbial growth.

Ideal for power plants, chemical processing, HVAC systems, and industrial manufacturing units, the pultruded FRP cooling tower combines high performance with long-term reliability in demanding applications.



- Durable **Pultruded FRP Construction** – Resistant to corrosion, UV damage, scaling, and microbial growth
- High-Efficiency **Counterflow & Crossflow Designs** – Optimized airflow and water distribution for maximum heat dissipation
- Advanced **Splash/Film Fill Media** – Enhances water-air contact for superior cooling efficiency
- **Drift Eliminators** – Minimize water loss and prevent droplet carryover
- Energy-Efficient **Induced Draft Fan** – Ensures consistent airflow with low power consumption
- **Low Maintenance Design** – Lightweight, corrosion-resistant materials reduce upkeep and extend operational life
- **Versatile Industrial Applications** – Suitable for power plants, chemical processing, HVAC systems, and manufacturing units

CCCT - Series

Closed Circuit Cooling Tower

The Closed Circuit Cooling Tower is designed for efficient and reliable heat rejection with durable metal construction that withstands harsh industrial environments. Built from high-quality steel or other metals, the tower ensures long-term performance with low maintenance requirements. Hot process fluid flows through a closed coil while water is sprayed over the coil and ambient air is drawn through the tower.

Counterflow designs allow air to move upward against the downward water flow for compact, high-efficiency cooling. Crossflow designs let air flow horizontally across descending water for easier inspection and maintenance, while mixed flow designs combine both for optimized performance in demanding applications.

Drift eliminators minimize water loss, and the closed-loop system keeps the process fluid separate from air for safe, efficient operation.

Ideal for power plants, chemical processing, HVAC, and industrial manufacturing, the metal-constructed closed circuit cooling tower delivers long-term reliability and consistent cooling performance.

- **Durable Metal Construction** – Resists corrosion and harsh conditions
- **Counterflow, Crossflow & Mixed Flow** – Efficient heat transfer
- **Closed Coil System** – Keeps fluid separate from air
- **Spray/Fill Media** – Improves cooling performance
- **Drift Eliminators** – Reduce water loss
- **Energy-Efficient Fans** – Consistent airflow, low power
- Low Maintenance – **Long-lasting, easy to maintain**



Fanless FRP Cooling Tower

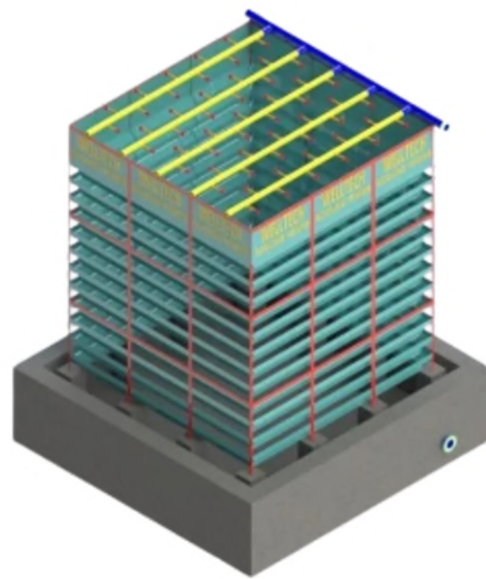
FLCT - Series

FRP Fanless Cooling Towers are designed for efficient cooling without the use of a fan, reducing power consumption and maintenance costs. Made from high-quality Fiber Reinforced Plastic (FRP), these towers offer excellent durability, corrosion resistance, and long service life.

The fanless design uses natural air draft for cooling, making it ideal for industries looking for energy-saving and eco-friendly cooling solutions. FRP Fanless Cooling Towers are widely used in industrial processes, HVAC systems, and manufacturing units where reliable and low-maintenance cooling is required.



- **No fan** – zero power consumption
- **Corrosion-resistant** FRP body
- **Low maintenance**
- **Long service life**
- **Energy-efficient cooling**



FCT - Series

Forced Draft Cooling Tower

Forced Draft Cooling Towers use a blower or axial fan to push air through the tower, ensuring effective heat removal and improved cooling performance. The forced airflow increases heat transfer efficiency and provides consistent cooling for industrial processes.

These cooling towers are widely used in process cooling, HVAC systems, power plants, and manufacturing industries where reliable and efficient cooling is required.



- High cooling efficiency
- Blower or axial fan driven airflow
- Uniform air distribution
- Reliable and stable operation
- Suitable for various industrial applications



Cross Flow Cooling Tower

CCT - Series

Cross Flow Cooling Towers are designed to provide efficient heat removal by allowing air to flow horizontally across the downward flow of hot water. In this system, hot water is distributed over the fill media, where it spreads and comes into contact with the incoming air. The heat is removed through evaporation and air movement, and the cooled water is collected at the bottom basin for reuse in the system.

These cooling towers are commonly made with durable structures and efficient water distribution systems, ensuring reliable performance, easy maintenance, and long operational life. Cross Flow Cooling Towers are widely used in industrial plants, HVAC systems, power stations, and manufacturing units where consistent and effective cooling is required.

Single Cross Flow Configuration uses air entering from one side of the tower, providing a simple design that is suitable for small to medium capacity cooling applications.

Double Cross Flow Configuration allows air to enter from both sides of the tower, improving air-water contact and cooling efficiency, making it ideal for large-scale industrial cooling requirements.



- **Efficient Cooling Performance** – Provides effective heat removal through direct air and water contact.
- **Energy Efficient Design** – Requires lower fan power compared to some other cooling tower types.
- **Uniform Water Distribution** – Ensures proper water flow over the fill media for better cooling.
- **Simple and Compact Structure** – Easy to install and suitable for various industrial applications.
- **Low Maintenance** – Simple design makes inspection and maintenance easier.
- **Durable Construction** – Built with corrosion-resistant materials for longer service life.
- **Flexible Configurations** – Available in single cross flow and double cross flow designs based on cooling capacity needs.
- **Wide Industrial Use** – Suitable for HVAC systems, manufacturing plants, and process cooling applications.



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