



CTI Certification Validation No. C154A-25R00
SFCT-SQ Series



Superflow Cooling Towers Pvt. Ltd.

20+ Years of Excellence in Cooling Solutions

- **High-Efficiency, Energy-Saving Cooling Towers**
- **CTI-Certified, CE-Certified & ASHRAE 90.1 Compliant**
- **Trusted by Industries. Recognised Globally.**
- **Sustainable Solutions for Green Buildings (IGBC/LEED)**



Performance You Can Rely On, Cooling You Can Trust.



About Us

For over three decades, **Superflow Cooling Towers Pvt. Ltd. (SFCTPL)** has been at the forefront of **design, engineering, and manufacturing high-quality, high-efficiency cooling towers**. Built on a strong foundation of hard work, ethics, and a relentless pursuit of excellence, Superflow has earned a reputation as a **hallmark of quality and reliability** in India's cooling tower industry.

Innovation & Expertise

As a technology-driven organisation, Superflow continues to play a vital role in **developing innovative products and advanced technologies** for the evaporative cooling market. Our product portfolio includes a **comprehensive range of FRP Induced Draft Cooling Towers** in **round, square, and rectangular configurations**, tailored to meet the diverse needs of industries worldwide.

Certifications & Global Standards

Superflow is an **ISO 9001 certified company**, driven by the mission of **setting global benchmarks in cooling tower technology**.

- Our **SFCT-SQ range of cooling towers** is **CTI (Cooling Technology Institute, Houston, USA) certified** for thermal performance as per **CTI STD-201 standards**. (Certification details available at www.cti.org)
- The entire product line is **CE certified**, assuring compliance with international quality and safety standards.
- All cooling towers are **ASHRAE 90.1 compliant**, making them eligible for **LEED certification by IGBC (Indian Green Building Council)** and contributing to sustainable, energy-efficient building practices.

Our Vision

With over 30 years of expertise and a global outlook, **Superflow Cooling Towers Pvt. Ltd.** continues to **redefine industry standards**—delivering **efficiency, reliability, and innovation** in every cooling solution.

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Induced Draught Cooling Towers

Superflow's Induced Draught Cooling Towers are engineered with advanced German technology to ensure **optimum thermal performance, reliability, and durability** for a wide range of industrial applications.

Key Technical Features

Heat Exchange System (PVC Fills)

- High-strength PVC fills with **double-folded margins** for erosion resistance and extended lifespan.
- Film-type design provides maximum **air–water contact surface** for efficient heat transfer.
- Automatic drainage feature minimizes water carryover and pressure drop.
- Withstands continuous water temperatures up to **65 °C**.
- Manufactured using **precision German technology** with automated bonding process.

Drift Eliminators

- German-engineered, high-efficiency profile design.
- Drift loss restricted to $\leq 0.001\%$ of circulating water flow under standard conditions.

Water Distribution System

- **Rigid PVC headers & laterals**, designed for high strength and corrosion resistance.
- Capable of withstanding **2 KSC (~20 m head)** without failure.
- Delivers uniform water distribution with **no external pumping pressure requirement** in Superflow tower design.

Axial Flow Fans & Drive System

- Aerodynamically designed axial flow fans, **statically & dynamically balanced**.
- Direct drive eliminates gearbox-related maintenance issues.
- Equipped with **TEFC, IP55-protected motors** from reputed makes like **NEI, Siemens, ABB**.
- Motor–fan assemblies co-guaranteed for reliability and long service life.

Tower Body (FRP Casing)

- Fabricated with **isothelic resin & FRP matting** for corrosion resistance and structural strength.
- Resistant to **UV rays, wind loads, and treatment chemicals**.
- Available in multiple color options.

Advantages

- **Energy-efficient** design lowers operational costs.
- **Compact construction** for space-saving installation.
- **High reliability & low maintenance** due to direct drive design.
- Meets **global quality standards** for thermal performance.

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Overview

SFCT-SQ – CTI Certified Cooling Towers

Our **SFCT-SQ range of cooling towers** is **CTI certified** for thermal performance under CTI Standard STD-201. This certification assures building owners, designers, and installers that the cooling tower will perform **exactly as published in manufacturer catalogues**, eliminating the need for costly field tests and guaranteeing reliable system performance.

- ✓ Manufacturer's thermal performance certified by **Cooling Technology Institute (STD-201)**
- ✓ **Certification Validation No. C154A-25R00**
- ✓ Range: **27 CUM/H to 2700 CUM/H** (Various models available)

Why CTI-Certified Cooling Towers?

- **Guaranteed Thermal Performance:** Each model is independently tested and certified by the Cooling Technology Institute (CTI) to verify that its actual performance matches the manufacturer's published ratings.
- **Energy Efficiency & Cost Savings:** Accurate performance ensures your system operates at optimal efficiency, reducing power consumption and operational costs.
- **Reliability & Peace of Mind:** Certified towers eliminate the risk of undersized or underperforming installations, ensuring consistent cooling across varying load conditions.
- **Compliance & Global Acceptance:** CTI certification is recognized worldwide and aligns with ASHRAE, LEED, and other international standards.
- **No Field Testing Required:** Certification eliminates the need for costly on-site performance tests, saving time and resources during commissioning.

Choosing a **CTI-certified tower** means investing in **verified performance, proven reliability, and lifetime operating efficiency.**

Advantages of SFCT-SQ

Why Choose SFCT-SQ?

- Modular construction – easy to scale up
- Available in various shell sizes from 27 CUM/H to 2700 CUM/H
- **CTI STD-201 certified** for thermal performance
- Entire range also **CE certified**
- **ASHRAE 90.1 compliant** – supports IGBC/LEED Green Buildings
- Lightweight, weatherproof, mechanically strong
- Impact-resistant FRP construction
- Complete with inlet, outlet, drain, make-up & quick-fill connections
- Easy to install, maintain & repair
- Operates efficiently up to **55°C water temperature**
- Available in **aesthetic colours** as per requirement

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Applications:

- **HVACR**
- **Pharmaceuticals**
- **Food & Beverage**
- **Oil & Gas**
- **Plastics & Moulding**
- **DG Sets**
- **Power Plants**
- **Steel**
- **Chemicals & Fertilisers**
- **Sugar**
- **Cement**
- **Process Plants**

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Key Technical Highlights of CTI-Certified Cooling Towers

- **Application-Specific Design**

Each Superflow cooling tower is custom-engineered to suit the project's exact cooling load, water flow, and site conditions. Instead of fixed tonnage classifications, designs are tailored for real-world efficiency and flexibility.

- **Precision Performance Evaluation**

All towers undergo comprehensive in-house testing and site validation using calibrated instruments and digital monitoring. This ensures that every delivered unit meets its designed thermal and hydraulic performance.

- **Energy-Efficient Thermal Performance**

Superflow towers are developed with optimized air–water contact geometry, ensuring maximum heat rejection with minimal fan power and water drift. Our designs prioritize low operating costs and reliable performance.

- **Advanced Heat Exchange Components**

High-quality PVC fills (MUNTERS, BRENTWOOD, or equivalent) and precision drift eliminators are used for efficient thermal exchange, reduced water carryover, and long-term performance stability.

- **Balanced Airflow System**

Fans and Stacks are aerodynamically tuned to provide smooth air circulation and uniform cooling across all operating conditions. Available depending on site requirements.

- **Robust Structural Integrity**

Built using FRP panels, stainless steel fasteners, and hot-dip galvanized steel frameworks, Superflow towers resist corrosion, vibration, and mechanical stress even under demanding industrial operations.

- **Reliable Selection & Documentation**

Each project includes accurate selection sheets, design data, and performance charts — enabling transparent technical evaluation and confidence during procurement and inspection stages.

- **Quiet & Smooth Operation**

Optional low-speed fan drives and aerofoil fan designs make Superflow towers well-suited for urban, commercial, and HVAC installations where noise control is essential.

- **Dedicated Supervision & Installation**

Every Superflow installation is managed directly by our trained in-house engineers — from site planning to commissioning. We do not rely on third-party subcontractors for critical execution.

- **Sustained Quality Control**

Through continuous testing, periodic inspections, and material traceability, Superflow ensures every tower maintains its performance consistency and structural reliability year after year.

- **Reliable Cooling. Sustainable Future.**

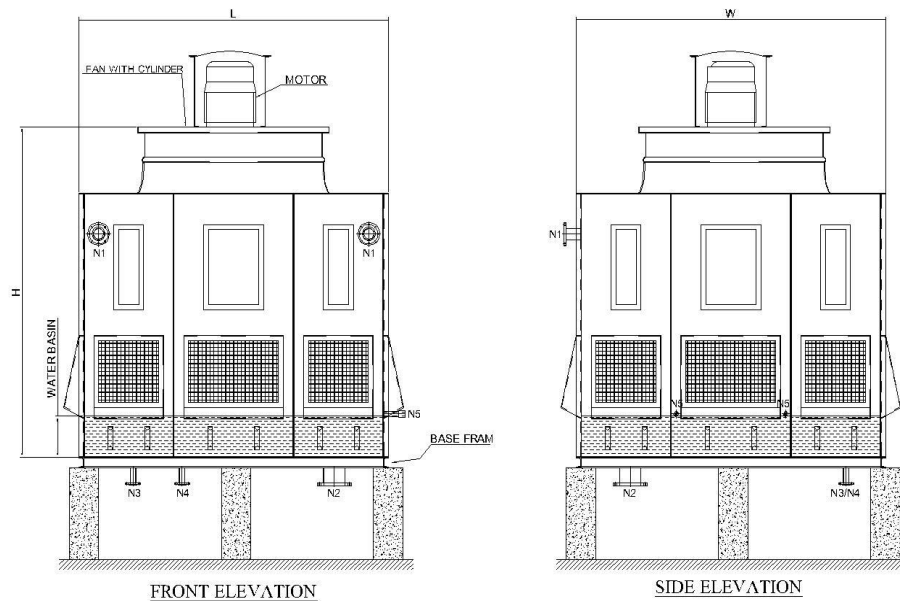
Superflow Cooling Towers Pvt. Ltd. — delivering engineered cooling solutions that combine efficiency, durability, and trust for modern industries.

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Technical Description

SFCT-SQ – Construction & Design

- **Casing & Structure:** FRP panels with smooth finish, wind resistant up to 60 m/sec, GI or pultruded FRP frame option with High corrosion resistance, fire retard and durability.
- **Inlet Louvers:** FRP louvers, sloped to minimise water loss, ensure uniform airflow
- **Cold Water Basin:** FRP integrated basin with outlet, overflow, quick-fill and drain connections
- **Fills:** Honeycomb PVC design for maximum heat transfer, minimal pressure drop, energy efficiency and resistant to bio hazardous
- **Drift Eliminators:** PVC high efficiency drift pack design, drift loss $\leq 0.001\%$ of design water flow
- **Hot Water Distribution System:** PVC headers in branch-arm systems with PP splash caps for uniform distribution
- **Fans:** Aerofoil axial type, Statically and Dynamically balanced, low noise, aluminium alloy blades (FRP optional), adjustable pitch
- **Motors:** TEAO, IP-55, Class F insulation, IE2/IE3/IE4/IE5 efficiency, weatherproof
- **Fan Cylinder:** FRP moulded, large entry area, smooth approach for efficiency, reduced operating cost.



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Contact Us

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