

QUALITY IN EVERYTHING WE DO



**Power Saver -**  
Optimum Design



**Corrossion Free -**  
100% Polymer Composite  
Long Life.



**Maintenance Friendly**  
Quality Spares  
No Regular Cleaning  
Less Downtime



**SIDDHANT EQUIPMENTS PVT. LTD.**

THE COMPLETE SOLUTION FOR COOLING TOWER TECHNOLOGY



## COMPANY PROFILE

We made a small beginning in the year 2000 at Pune. The first few years were of constant struggle to establish "AQUACOOL" brand in the market, as other brands were already established for years.

Since inception, we are observing a total commitment to rigid quality control at each stage of production and as a result our cooling tower meet the exact standard of leading cooling tower consumers i.e. Multinational Companies, Corporate Houses and Govt. Bodies. In the field of cooling towers "AQUACOOL" is a trusted brand. After about two decades "AQUACOOL" has more than 3000 successful installations in India and abroad. All the components required in the cooling towers (except Gear & Motor) are manufactured in house with technical back up and tie up like IIT Powai from Mumbai.



### Our Cooling Towers are being used by the following industries.

Power Plants, Steel Plants, Chemical and Fertilizer Industries, Pharmaceutical Industries, Machine Building Industries, Petroleum Industries, Air Conditioning and Refrigeration Industries, Plastic and Rubber Industries, Glass Industries, Air Compressor Oxygen Plants, Beverage Industries and Distilleries, Forging Industries, Paper Industries, Textile Industries.

### Our Cooling Towers have been approved by the following consultant and clients -

- BHAGWATI DESIGNS AND CONSULTING ENGINEERS • CHEMET DESIGNS AND ENGINEERS • CHEMETEX ENGINEERING LTD.
- KIRLIOSKAR CONSULTANT LTD. • MOTT MACDONALD CONSULTANTS
- SHROFF AND ASSOCIATES

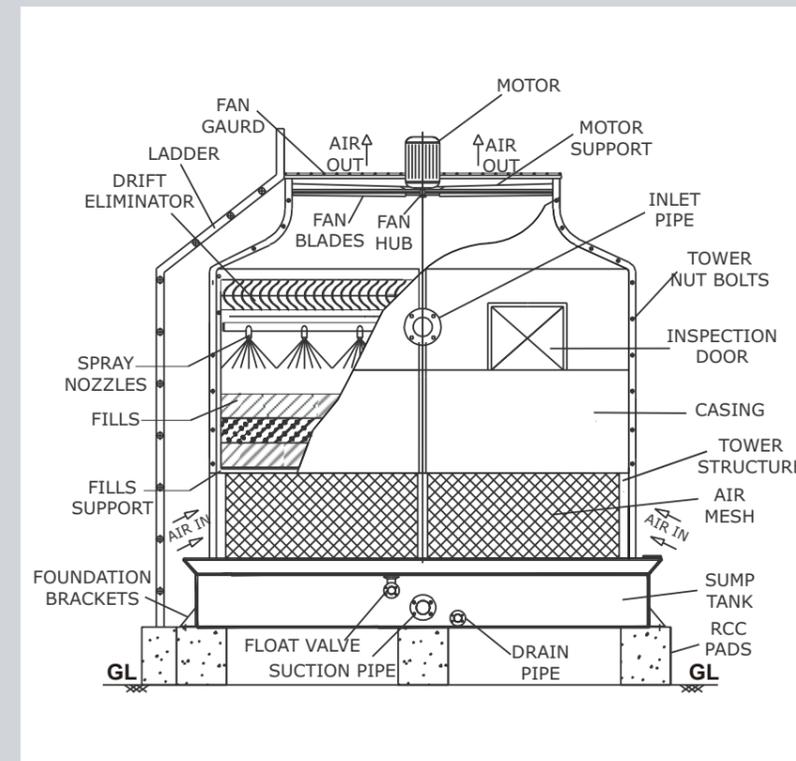
### PRODUCTION CAPACITY AND CAPABILITY

We are one of the leading cooling tower manufacturers having modern FRP moulding shop, fabrication and testing unit, complete assembly under one roof.

We have installed capacities of 30 Nos. of cooling towers per month, i.e. 360 per year and have already achieved production of 200 nos. last year.

With our economy opening up, we have to match our quality to that of developed countries so as to face the international competition. We are installing latest process control equipment in the plant and new testing equipment in the laboratory. We are inducting more technical hands in the quality department.

To strengthen our capacity and capability to meet ever growing demands of cooling towers a new manufacturing plant with latest machines and testing equipments is set up near Pune which is in operation since 2015.



### GENERAL ARRANGEMENT OF INDUCED DRAFT COUNTER FLOW COOLING TOWER

#### SALIENT FEATURES

- High efficient honeycomb PVC fills with large surface area with negligible resistant to air flow
- Low maintenance cost, because fan is an only moving part
- High efficient direct driven axial fan
- Light in weight, modular construction.
- Corrosion resistant, Stainless Steel hardware
- Maintenance down time is low due to inspection windows
- Available in multi cell construction if required
- Versatile applications

## PRODUCT RANGE

### FRP INDUCED DRAFT PACKAGE COOLING TOWER

- Durable, Non corroding, Light weight.
- Efficient in operation because design for optimal performance.
- Static water distribution system
- Non clogging Nozzles.
- Minimum maintenance due to non moving parts except Motor/Fan assembly.
- Made up of heavy duty Fibreglass.
- Easy Installation.

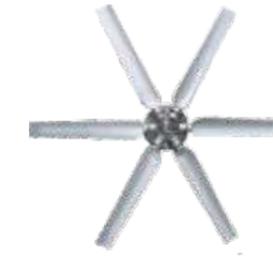


### PULTRUDED FRP INDUCED DRAFT COUNTER FLOW COOLING TOWER

- Pultruded FRP strength equal to steel in tension and compression.
- Superior design to achieve maximum efficiency.
- UV resistant and leak proof FRP casing.
- Highly efficient honeycomb PVC fills enables maximum heat exchange area.
- Corrosion resistant because of SS hardware.
- Optimal Thermal performance.
- Low cost, Faster and easy installation
- Aesthetically appealing pultruded FRP structure.
- Light weight, Longest service life.
- Practically maintenance free.
- Available in multi cell construction on demand as per requirement.



- Pultruded FRP structural components are used throughout cooling towers. SS fastener are used throughout the C.T. in conjunction with bearing sleeves to minimised FRP shear stress in the bolted joints.



- The fan is of aero dynamic design, directly driven propeller type. It is made of FRP/Cast Aluminum and hub is made up of cast aluminum.



- The most efficient film fill made up of virgin PVC which are mounted on Pultruded FRP structural member.
- Available in 12, 19 and 27 flutesize as per requirement. The fills shall withstand a maximum inlet water temperature of 55°C.



- All the hardware is made up of stainless steel hence 100% corrosion free and long life.



- Different Pultruded FRP components used to construct structure of C.T. Our Pultruded FRP members are manufactured conforming to CTI-STD-137 and EN-13706.



- Motor Type : 415v/50 Hz, TEAO, S1, IP55 B-5 Flange Mounting.



- Drift Eliminator/PP Spacer are made of rigid PVC/PP and ensure water carry over losses shall not exceed .005% of the circulating flow. Drift holder is made up of high quality polypropelene.



- Non clogging, high performance Nozzles are used. It operates on relatively low pressure. MOC-Glass filled Nylon/PVC/PP as per requirement.



### PULTRUDED FRP INDUCED DRAFT CROSS FLOW COOLING TOWER

- Unique Pultruded FRP design to give a rigid and stable structure.
- Aerodynamic shape enables to withstand to a high wind velocity.
- Low initial cost compare to traditional timber cooling tower.
- Optimal selection of tower configuration fill media and drift eliminator.
- Works efficiently under contaminated water because of PVC "V" bars and grids used.
- Suitable for all load applications however, it is more suitable for applications where water has higher suspended solids.

## SELECTION CHART

Model	Height	Width	Flow rate		Fan Motor (HP)	Operating Weight (includes water in sump) Kgs.
			M3/hr.	L.P.M.		
AQ-433	1500	460	5	83	.33	100
AQ-705	1680	710	10	166	.5	165
AQ-875	1900	860	15	250	.75	275
AQ-1010	2100	1015	20	333	1	410
AQ-1115	2200	1170	35	583	1.5	560
AQ-1320	2350	1320	35	583	2	830
AQ-1630	2475	1625	40	666	3	1250
AQ-1730	2500	1780	50	833	3	1550
AQ-1930	2600	1930	60	1000	3	1870
AQ-2250	2800	2235	80	1333	5	2730
AQ-2575	2900	2540	120	2000	7.5	3600
AQ-2875	3250	2850	135	2250	7.5	4200
AQ-3110	3300	3150	180	3000	10	5100
AQ-3410	3500	3460	220	3666	10	6150
AQ-37125	3600	3760	260	4333	12.5	7100
AQ-3715	3600	3760	280	4666	15	7150
AQ-4015	3700	4050	300	5000	15	7500
AQ-4315	3900	4300	330	5500	15	8000
AQ-4615	4000	4600	360	6000	15	10500
AQ-4920	4150	4920	390	6500	20	12500

### NOTE :

- Based on : 15 LPM (4 USGPM)/TR\* Std. temperature drops of 4, 6 & 8°C with approach of 3-4 °c. Higher temperature drop with lower approach also possible.
- 0.2 to 0.3 kg/cm water pressure available at spray nozzle.
- Height of C.T. will depend on end use and temp drop requirements.
- For flow rates more than 400 M<sup>3</sup>/hr, also possible in multiple cell design.

### Please provides following details for your requirement of Cooling Tower :

- Circulating water flow rate (m<sup>3</sup>/hr/LPM).
- Hot water temperature.
- Required cold water temperature.
- Ambient wetbulb temperature.

### APPLICATIONS :

Comfort Air Conditioning, Industrial Refrigeration, Chemical Process Cooling, Air Compressor, Diesel Generator Sets, Induction Furnace, TMT Plants, Hydraulic Machines, Plastic Moulding Machines, Aluminum Die Casting Machines, Quenching Oil Cooling, Effluent Evaporators.

### AFTER SALES SERVICES

SEPL has team of service personnel offering prompt and efficient after sales services. Adequate inventory of spares enables to take up break down jobs at a short notice. This minimizes shut down period.



### INTERNATIONAL PRESENCE :

#### AFRICA -

- Nigeria • Zambia • Kenya
- Cameroon • South Africa

#### MIDDLE EAST -

- Oman • U.A.E

#### SOUTH EAST ASIA -

- Bangladesh • Malaysia

#### INDIAN CONTINENT -

- Sri Lanka • Nepal



FOR SELECTED LIST OF CLIENTS, PLEASE VISIT OUR WEBSITE : [www.aquacoolcoolingtower.com](http://www.aquacoolcoolingtower.com)



Manufactured & Marketed by :

**SIDDHANT EQUIPMENTS PVT. LTD.**

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\* The specifications are subject to change without further notice for technical improvement of our products.