



A ACCENT COOLING TOWERS CO.

INTRODUCTION

Accent Cooling Towers Co. Set out it to be a leading manufacturing firm of Cooling Towers, Parts and Gaskets. Since inception, in 2005 Accent Cooling Towers Co. has been venturing into the comprehensive range (Design, Manufacture, Supply, and Erection) of complete cooling towers, parts and making almost effort to provide flawless Sales & Services in the best possible deal to its clients.

Accent Cooling Towers Co. is a one-stop enterprise that offers the complete range of Cooling Towers, Parts and Gaskets and its related-services. The company is a member of CTI and ISO-9001 certified.

ACT is more than an equipment supplier. Its mission is to

- Provide high quality wide range of cooling tower products and high class after-sales services.
 - Create and cultivate long-term relationships with clients.
 - Manufacturing the cooling tower (system) as per approved customer drawing.
 - Respond immediately to the changing needs of our clients.
 - To modernize the industry, we use modern technologies and software.
 - Ensure timely project completion, end to end quality management and budget control.
 - An empowered, motivated and committed work force.
- Accent Cooling Towers Co. believe in maintaining quality and wish to get associated with you.

Kindly send your requirements and procedure to get us self registered.

Our contiguous efforts to provide quality & cost effective products have given us opportunity to serve many of the premier industries in India and overseas.

INDEX

PULTRUDED FRP COOLING TOWER

1. CROSS FLOW COOLING TOWER.
2. COUNTER FLOW COOLING TOWER
3. TAILOR MADE COUNTER OR CROSS FLOW.

RCC COOLING TOWER (RENIFORCE CEMENT CONCRETE)

1. CROSS FLOW COOLING TOWER.
2. COUNTER FLOW COOLING TOWER.
3. TAILOR MADE COUNTER OR CROSS FLOW.

COMPONENT OF COOLING TOWER

- COOLING TOWER INSTRUMENTION.
- MAINTAINCE & SERVICES OF COOLING TOWER.
- GASKETS.

TREATED TIMBER COOLING TOWER

1. CROSS FLOW COOLING TOWER
2. COUNTER FLOW TOWER.
3. TAILOR MADE COUNTER OR CROSS FLOW

PACKAGE COOLING TOWER

1. FRP COUNTER FLOW.
2. BOTTLE TYPE.
3. FORCE DRAUGHT TYPE.

PULTRUDED FRP COOLING TOWER

Features

- Pultruded fiberglass polyester field-erected cooling towers
- Heavy-duty cooling towers designed for industrial applications
- Optimal thermal performance design
- Highly resistant to corrosive environments



- Type:Counter flow • Fabrication:Field-assembled • Material:Pultruded and Hand-Rail FRP • Air flow:Induced draft
- Capacity:2,000,000-20,000,000 kcal/hr per cell • Water flow:400 - 4,000 m3/hr per cell • Industries:Oil and Gas, Pharmaceutical, Power plants, Refineries, large-scale HVAC systems.

GENERAL

Induced-draft cooling towers made of FRP. The structure of our PUL. FRP series (support beams and columns) is made of composite continuous fiberglass pultruded sections that comply with CTI STD 137 and conform to ASTM E84D with a flame spread rating of below 25. Pultruded FRP cooling towers are positioned over a concrete basin. Just as our SGCT series , SGCT provides its customers with scale drawings of the concrete cement, including locations and production drawings of all pipe fittings in 2D or 3D, the size of a single cell ranges from 3m X 3m to 15m X 15m. When the concrete basin is ready on site, SGCO sends its assembly teams to the job site, where one team sets the pultruded FRP structure, and the other furnishes the cell once the first team has erected it.

Pultruded FRP cooling towers have become an alternative solution to traditional concrete cooling towers, since in many cases they cost less and their erection time is much shorter than that of cooling towers made entirely of concrete. In addition, pultruded FRP towers in many cases offer superior corrosion resistance.

OPTIONS

- Additional Weil layers to increase corrosion resistance
- Pultruded FRP hand rails, walkways, and ladders
- Low-noise fans.
- SS 304 NUT BOLT OR SS 316.
- Elevated basin for optimal use of space.

CROSS FLOW COOLING TOWER



FEATURES

- Pultruded fiberglass polyester field-erected cooling towers
- Heavy-duty cooling towers designed for industrial applications
- Optimal thermal performance design
- Highly resistant to corrosive environments
- Type: CROSS FLOW
- Fabrication: Field-assembled
- Material: Pultruded and Hand-Rail FRP
- Air flow: CROSS TYPE
- Capacity: 2,000,000-20,000,000 kcal/hr per cell
- Water flow: 400 - 4,000 m³/hr per cell
- Industries: Oil and Gas, Pharmaceutical, Power plants, Refineries, large-scale HVAC systems.



GENERAL

Induced-draft cooling towers made of FRP. The structure of our PUL. FRP series (support beams and columns) is made of composite continuous fiberglass pultruded sections that comply with CTI STD 137 and conform to ASTM E84D with a flame spread rating of below 25. Pultruded FRP cooling towers are positioned over a concrete basin. Just as our ACT series

CROSSFLOW TOWERS.

- Low pumping head, thus lower operational cost.
- Accepts variations in water flow without changing the distribution system
- Easy maintenance access to vital parts.
- Reduced drift loss due to the absence of water droplets.
- Lower in noise due to absence of water noise.
- Larger foot print of the tower.
- Large air inlet surface makes icing difficult to control.
- Tendency of uneven air distribution through the infill due to the large inlet surface.

CUSTOMISE & TAILOR MADE COUNTER OR CROSS FLOW.

Customize & Tailor made tower is design where we have less space to design counter or cross cooling tower & we are specialized to design for the same.

- Space availability constrains
- Cooling tower fit in existing basin
- High wind velocity & high seismic zone
- Low noise level.
- To suit optimum operating economy.

RCC COOLING TOWER (REINFORCE CEMENT CONCRETE) COUNTER FLOW & CROSS FLOW.



Reinforce Concrete cement counter flow & Cross Flow Cooling Towers Longest service life in harsh environment Erected on site Pultruded FRP fills support.

Type: Counter flow / Cross flow
Fabrication: Field-assembled
Material: Concrete cement
Air flow: Induced draft / cross type.
Capacity: 2,000,000 - 20,000,000 kcal/hr per cell
Water flow: 400 - 4,000 m³/hr per cell



Industries:

Oil and Gas, Pharmaceutical, Power Plants, Refineries ETC.

General:

Reinforce Concrete cement cooling towers designed for heavy industrial applications such as power plants; petrochemical and chemicals plants and refineries of various kinds

. Our engineering department guides the concrete construction process from beginning to completion, ensuring that on-site work meets all requirements. While construction is taking place, all relevant parts of the cooling tower are purchased or manufactured and sent to the job site. When the structure is ready, our assembly team flies to the job site to install and furnish the cooling towers with fill, louvers, fan, motor unit, and fan stack until the cooling tower is operational.

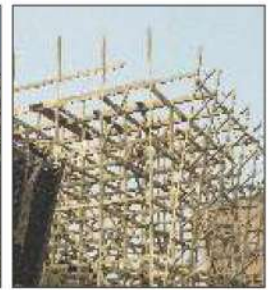


TREATED TIMBER COOLING TOWER.

1. CROSS FLOW, COUNTER FLOW & TAILOR MADE COUNTER OR CROSS FLOW.

We Accent Cooling Towers Co. Manufacturing CCA (Copper Chromate Arsenic) Chemical treated timber. These timber or Pine wood Cooling Towers are available in induced draft cross flow & induced draft counter flow design. And the capacity is 45 M3/hr. to 5000 M3/hr in multi Cells Fan diameter varies from 1500 mm to 10000 mm. Different models have different Air Travels, Fill height, Fill pattern, Fan diameter, etc.

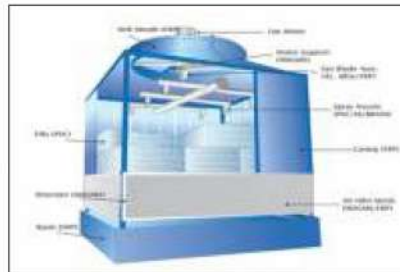
ITEMS	MATERIAL OF CONSTRUCTION
STRUCTURE	TREATED TIMBER
FILL	SPLASH TIMBERFILLS / PVC SPLASH FILLS
FILL SUPPORT	GRP GRIDS/SS. GRIDS
DRIFT ELIMINATOR	PVC
FAN ASSEMBLY	CAST ALUMINIUM /FRP
NOZZLE	PP
HARDWARE	HDGMS/ SS
FAN CYLINDER	FRP VENTURY TYPE
CASING & LOUVER	FRP / ABESTOS
DRIVE SHAFT	HDGMS/ COMPOSITE



FRP PACKAGE COOLING TOWER • SQUARE COUNTER FLOW. • BOTTLE TYPE. • FORCE DRAUGHT TYPE • SQUARE COUNTER FLOW. • BOTTLE TYPE. • FORCE DRAUGHT TYPE.

We Accent Cooling Towers Co. manufacturing FRP package cooling tower like Square Counter flow, Bottle Type & Force Draught with uniquely designed, for high performance reliability durability & trouble free operation.

And it's come segment which can be easily maintenance during operational, this FRP cooling tower we also design for high temperature & temperature up to 90 degree Celsius the capacity of cooling are coming for 2TR TO 4000 TR .



COMPONENTS OF COOLING TOWER

FRP OR CAST ALUMINIUM BLADES



- The raw material i.e. FRP and Aluminium provides the desired non-corrosive quality to the fan blades, resulting in the operation of fans even in the chemical environment.

- FRP is lightweight material which ensures low moment of inertia, minimum wear & tear of motor, bearing and drive system. The basic purpose of fan is to move a mass of gas or vapor at the desired velocity. For achieving this objective, there is slight increase in the gas pressure across the fan impeller. SGCT manufacture fans with fan blade choice of correct twist and of special airfoil sections to reduce compressibility losses.

FRP FAN CYLINDER OR STACK WITH RECOVERY CONE

ACT fan cylinders feature venture- shaped eased inlets and closed blade tip clearances. The fan stack does far more than protect operating personnel from a rotating fan. It is a vital link in the chain of critical components that contribute to the overall efficiency of cooling tower. When correctly designed, manufactured and supplied, it assures the fan will be capable of moving the maximum amount of air through tower at the minimum required horsepower.

For an optimum fan performance, the fan stack must have dimensional stability for a perfect fan-tip clearance, proper smooth air intake and at the exhaust side a flare of 7-8 deg. The fan stacks we manufacture are of 8 degree flare diffuser type with elliptical or parabolic air inlet. Fans Stacks are taken up for manufacturing after approval of drawings by client, we use best materials unsaturated polyester and fiber CSM. The fan stack thickness, dimensional stability and weight per segment are maintained throughout the manufacturing process.



MECHANICAL EQUIPMENT

We ACT manufacturing the TORQUE TUPE or BASEFRAME unitized supports gives permanent alignment of the motor, driveshaft & gear reducer. Torque tube type and channel base frame can be used for both cross flow and counter flow cooling towers. Normally the mechanical supports/base frames are made out of hot dip galvanized steel. Stainless steel of 304 or 316 grade are manufactured upon request.



GEAR BOX

WE ACT manufacturing the Gear box SINGLE & DOUBLE reduction which depend upon the Motor Capacity in Kw(HP)

Single Reduction: - one reduction ranges from ratios of 2:1 to 5.5:1. Power ranges from 7 HP (5.2 kW) up to 60 hp

Double Reduction: - Double reduction gearbox is the perfect choice. Reduction ratios range from 7.5:1 to over 20:1. Power ratings start at 60 HP (45 kW) and exceed 500 HP (375 kW).



DRIFT ELIMINATOR

The purpose of Drift eliminator is to reduce the drift loss in the cooling tower. Drift eliminators normally kept next to fills in the air flow path thereby reducing the drift loss. Drift loss is the loss of entrained water through the hot air to atmosphere. Drift eliminators normally made up of PVC. More number of passes through drift eliminator decreases the drift loss but increases the pressure drop thereby increasing fan power consumption. And the Drift eliminator Coming in

- C Type.
- S Type.
- Spectra type, And the Drift Loss are coming 0.002 to 0.005%



FAN DECK

Fan deck provides a platform for the support of the fan cylinders and acts as an access way to the fan and water distribution system



FRP LOUVERS

Louvers are made up of ASBESTOS SHEETS Or FRP SHEETS. It serves two purposes. One is to retain circulating water within the tower, and other is to equally distribute the air flow into the fill



PVC FILLS

We ACT manufacturing PVC Fills Optimally designed to achieve (with both edges folded) high surface area for given volume PVC Fills are made by continuous forming and offer minimum resistance to airflow, providing more cooling by lower power consumption. They have uniform thickness throughout. Durable folded edges provide strength at critical locations on the fill. The fills are easy to glue at site thus saving on transportation costs.



- 12 MM Flute Size
- 17 MM Flute Size
- 19 MM Flute Size
- 27MM Flute Size
- 32-27 MM Flute Size
- And the length, width & height are coming according to client requirement.

V SPLASH BAR FILLS

Cooling Tower Fill is the main heat transfer area available for Heat transfer from Hot water to Cold Air. The Splash fills disintegrates the hot water from the vertical direction and it splits the water to pass through next level of splash bars.. Fills are normally made of PVC, Wood.

- 28 X 28 • 35 X 35 • 65 X 65
- AND THE LENGTH ARE ACCORDING TO CLIENT REQUIREMENT.



TURBHO SPALSH BAR FILLS

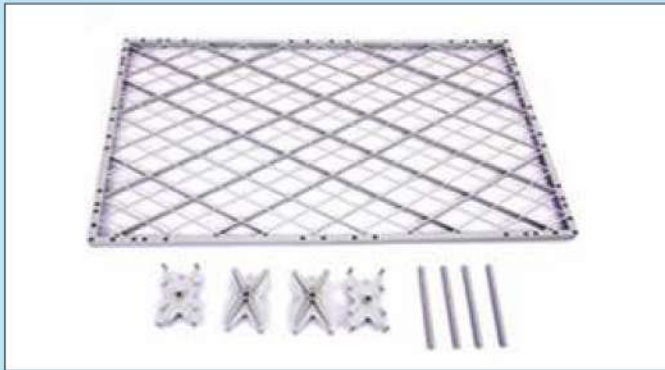
Turbo Splash Modular Splash Fill assemblies feature hinged panels that can be installed in both counter flow and cross flow cooling tower applications. Turbo Splash was designed for high thermal performance where poor water quality does not permit the use of film fills. Each unit can be accordion-folded into a compact bundle for efficient, cost-effective storage and shipping and then unfolded in the tower for easy installation

TEMPERATURE: - STAND UPTO 85 degree Celsius
And its non-clogging



OPTIC GRID FILS

Optic grid fills is a direct replacement splash fill for use in counter flow cooling tower where dirty water is a concern .Optic grid splash fills is maximizing number of water drop lets & highest surface of water are passing through air .This Fills are made of Polypropylene,(PP) it is resistant to attack from acids, alkalis, muddy water ,ASH, ETC.



DISTRIBUTION

We ACT manufacturing all types of distribution system like Hot Dip Galvinse, PVC,FRP ,PVC lateral pipe & and we design as per water capacity with lateral pipe with this we offer to our client Flow control Valve.



PP NOZZLE

We ACT manufacturing various types of nozzle as per requirement & base upon design, pressure required



PINBUSH/ RUBBER BUSH



COUPLING



RUBBER BUSH

SS NUT BOLT ,COACH SREW,SS NAIL

ACT manufactures screw shank nails in stainless steel grade. The sizes vary from 1" to 4" in length & 16' to 10' wire gauge in diameter. SGCT also manufacture U nails. The nails are mainly used for wooden cooling tower to fix wire grids ACT also offers SS Self drilling screws and tapping with neoprene washers in 1" 1/2", 2" and 2 1/2" sizes, these are used mainly to fix FRP casing and louvers in Pultruded FRP cooling towers.



DRIVE SHAFT ASSEMBLY

SGCT DRIVE SHAFT ASSEMBLIES are available in HDG, SS 304, & Carbon Composite Fibre design to transmit high torque rating for cooling tower applications. Drive shaft are single span & flexible to compensate for any misalignment. All drive Shaft components are completely inter changeable & its Design through ANSI /AGMA9000- D11



EXPLODED VIEW

CARBON FIBER DRIVE SHOFTS

IN GASKETS

We introducing ourselves as we manufacture types of gasket like, Rubber, Silicon Rubber, Teflon, Nylon, PTFE, Fiber Washier, Leather washier, Spiral wound Gasket, Flench Ring, Ring Gasket, Envelop gasket, Telfon cut gasket, CAF Gasket, Style 20, Acid 60, Metallic gasket, Non Metallic gasket, Oil gasket, Felt Gasket, Neoprene rubber gasket, Silicon gasket, Viton gasket, Ring joint Gasket,

OUR PRODUCTS RANGE: IN MOULDINGS & EXTRUSIONS PRODUCTS.

Silicone Transparent Tubing's, O-rings, Seals, Diaphragms, Oil seals, PU-Seals, Food Grade Rubber Products, Viton cord tubes, V-rings Rubber, Expansion Joints, Hydraulic & Pneumatic Chevron Seal Packing's, Sponge Silicone Sections/Tubes/Gaskets, Rubber Sheets Coated Fabrics, PHE Gaskets etc.



Users Industries / Applications in: Pharmaceuticals, Chemicals, Breweries, Beverages, Soft Drinks, cosmetics, Dairy, Distilleries, Mineral water process plants, Food processing plants, Medical equipments, Pumps & Valves, Glass M/c., Automobile, Cement, Textiles, Ferrous / Non-Ferrous, Electronic & Electrical Industries, Mechanical Engineering Units & Refineries, Packaging M/c, Effluent Treatment Plants etc..



ACCENT COOLING TOWERS CO.

IN COOLING TOWER :-

RCC induced Draft & Cross Flow, FRP Induced Draft,
Treated Timber Counter & Cross Flow, Fanless atmospheric Spray,
FRP Round Type & Pultruded FRP Cooling Tower.

IN COOLING TOWER SPARES :-

Fan Blade Assembly, All Type of Nozzles, Drift Eliminator, PVC Fills,
PVC Splash Bar, SS Wiremesh FRP Wiremesh,
Gearbox & Many More etc.
All Make Spares of Cooling Tower Available

GASKET :-

Jointing Sheets, Ring Gasket, Flanch Ring, Spiral wound Gasket,
Red fiber Washer, Cotton Fiber, PVC, Nylon, Teflon, Neoprene Rubber,
silicon, Viton, Felt, Clutch Plates Break liner,
And Many More As per the requirements.

F202,- Poonam Cluster Estate 1, Shanti Park, Mira Road East, Mumbai - 400072, Mob.: (+91) 9821260356 Email: accentcoolingtowers.com

