



PRAKASH COOLING TOWER

(AN-ISO 9001:2015 COMPANY)

Specialist Wooden/Timber Cooling Tower

*Mfg. All Types of Cooling Towers Service,
Spares & Annual Maintenance on Contact*

All Types Of Cooling Towers



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COMPANY PROFILE

An ISO 9001 : 2015 Company, Prakash Cooling Towers is a prominent Manufacturer, Exporter, and Supplier of a wide range of FRP Cooling Towers and other assorted equipment that provide various industrial water cooled energy. Our exclusive array of products includes Round Bottle Shape Cooling Towers, Rectangular/Cuboid Shape Cooling Towers, Spare Parts and Repair of Cooling Towers, Non Chemical Water Treatment Device, Energy Efficient FRP Fans.

Our company has carved a niche in the global market for its service to the industry in terms of providing water cooled energy. In addition to this, we have adopted premium standards in offering reliable installation and maintenance services for our Cooling Towers. Our primal aim lies in attaining complete customer satisfaction and we ensure this by means of fair play and professionalism in our working.

Features :

- Durable
- Supreme Quality
- Rust resistant
- Abrasion resistant

Used in :

- various industrial purposes
- FRP Induced Draft Cooling Towers

FRP Cooling Towers - Induced type, offered by Prakash Cooling Towers are known for superior design and technology. The cooling towers are designed to meet the high standard of performance demanded by engineers. These FRP induced draft cooling towers deliver compact, heavy duty and efficient cooling function and have an aesthetic design. Owing to its compactness, these FRP induced cooling towers are extensively used in many process industries and in HAVAC applications.



SELECTION AND TECHNICAL DATA FOR FRP BOTTLE TYPE COOLING TOWER

Model No.	Capacity TR	Width MM	Height MM	Fan Dia MM	Motor HP/RPM	Operating (Weight KG)	Pump Head MM
PCT-FRP-01	05TR	2000	800	450	1/1440	190	180
PCT-FRP-02	10TR	2000	800	450	1/1440	210	180
PCT-FRP-03	15TR	2000	1250	700	1/960	350	200
PCT-FRP-04	20TR	2000	1250	700	1.5/960	350	200
PCT-FRP-05	25TR	2300	1600	900	2/960	540	2500
PCT-FRP-06	30TR	2300	1600	900	2/960	600	2500
PCT-FRP-07	40TR	2900	2000	1200	2/960	800	3000
PCT-FRP-08	50TR	2900	2000	1200	2/960	900	3000
PCT-FRP-09	60TR	2900	2000	1200	3/960	1200	3000
PCT-FRP-10	80TR	2950	2300	1200	3/960	1500	3000
PCT-FRP-11	100TR	3100	2750	1500	5/960	1650	3200
PCT-FRP-12	125TR	3100	3150	1500	5/960	1850	3200
PCT-FRP-13	150TR	3100	3150	1500	7.5/960	1950	3400
PCT-FRP-14	175TR	3300	3400	1800	7.5/960	2200	3400
PCT-FRP-15	200TR	3300	3400	1800	10/960	2300	3500
PCT-FRP-16	250TR	3600	3800	1800	10/960	3400	3800
PCT-FRP-17	300TR	3600	3800	1800	10/960	3700	3800
PCT-FRP-18	400TR	3800	4500	2400	10/960	6000	4200
PCT-FRP-19	500TR	4000	4500	2400	15/960	6500	4500



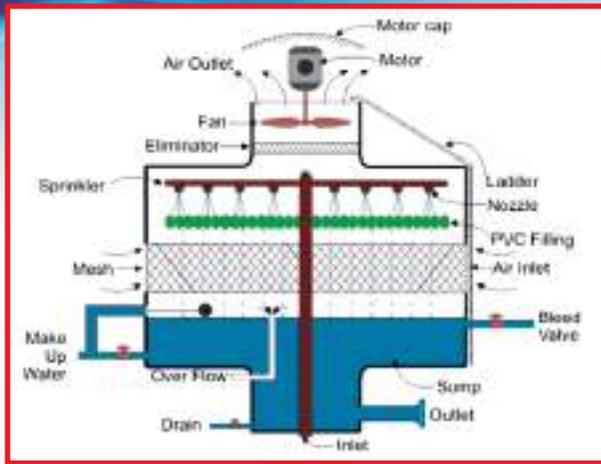
SELECTION AND TECHNICAL DATA FOR FRP SQUARE TYPE COOLING TOWER

Model No.	Capacity TR	Length MM	Width MM	Height MM	Fan Dia MM	Motor HP/RPM	Operating (Weight KG)	Pump Head MM
PCT-SQ-01	10TR	600	600	1950	450	1/960	150	180
PCT-SQ-01A	15TR	750	750	2050	450	1/960	200	180
PCT-SQ-02	20TR	900	900	2050	700	1/960	275	200
PCT-SQ-02A	25TR	900	900	2050	750	1/960	360	200
PCT-SQ-03	30TR	1050	1050	2150	750	1.5/960	450	2500
PCT-SQ-04	40TR	1200	1200	2250	900	2/960	500	2500
PCT-SQ-06	50TR	1500	1500	2500	1200	2/960	950	3000
PCT-SQ-07	60TR	1500	1500	2550	1200	3/960	1050	3000
PCT-SQ-08	80TR	1800	1800	2700	1500	3/960	1300	3000
PCT-SQ-09	100TR	2100	2100	3000	1500	5/960	1600	3200
PCT-SQ-10	125TR	2400	2400	3000	1500	5/960	2050	3200
PCT-SQ-11	150TR	2700	2700	3000	1500	7.5/960	2300	3400
PCT-SQ-12	175TR	3000	3000	3000	1800	7.5/960	3000	3400
PCT-SQ-13	200TR	3000	3000	3000	1800	10/960	3000	3500
PCT-SQ-14	300TR	3600	3600	3000	1500X2	5X2/960	4300	3800
PCT-SQ-15	400TR	4500	4500	3000	1800X2	7.5X2/960	6000	4200
PCT-SQ-16	500TR	6000	4500	3000	1800X2	10X2/960	6500	4500



Cooling towers are heat removal devices used to transfer process waste heat to the atmosphere. Cooling towers may either use the evaporation of water to remove process heat and cool the working fluid to near the wet-bulb air temperature or rely solely on air to cool the working fluid to near the dry-bulb air temperature. Common applications include cooling the circulating water used in oil refineries, chemical plants, power stations and building cooling. The towers vary in size from small roof-top units to very large hyperboloid structures (as in Image 1) that can be up to 200 meters tall and 100 meters in diameter, or rectangular structures (as in Image 2) that can be over 40 meters tall and 80 meters long. Smaller towers are normally factory-built, while larger ones are constructed on site.

CENTRAL ARRANGEMENT OF FRP COOLING TOWERS



Wooden Cooling Tower



Natural



PVC Fills



Motor



Sprinkler



Fan



Chemicals

SPECIFICATION

1. CASING :

Rust proof tough 'Bottle'/Square Type design can withstand high wind velocity and vibrations. It requires no painting and is compact in design with long life.

2. FILL :

Honeycomb designed rigid P.V.C. has extended surface area. It splits air and water, enhancing the contact time & heat transfer area by evaporation, PVC modules are vancouver formed and have been provide with double edges to give highly efficient and robust packing. It is the heart of cooling towers.

3. SPRINKLER : (For Bottle Shape Cooling Tower)

Automatic rotary sprinkler system made of Nylon 66 material, with rotary head and sprinkler pipe distributes the hot water over the entire space of the filler. Sprinkler pipes are non-clogging, require low pressure to operate and assures uniform water flow with minimum operating pump head. The FRP eliminators attached to sprinkler pipe are specifically designed for low pressure drop and minimizes the drift loss of water.

4. NOZZLE : (For Rectangular / Square shape)

Non clog type spray nozzles made of ABC or special plastic.

5. FAN :

Aerodynamically designed adjustable blade axial flow fan is highly efficient ensure large air flow at low static pressure and low noise level.

6. MOTOR

Squirrel TEFC induction motor with Ip55 weather proof electric motor suitable for humid outdoor conditions.

7. DISTRIBUTION

Rotary aluminum alloy-sprinkler with sealed ball bearings is designed to take care of radial and thrust loads rotating at 5 to 7 R.P.M. Distributes water through P.V.C Branch pipes. It sprays water on the P.V.C Fills uniformly. SS-304 sprinklers are available on request.

8. ELIMINATOR

FRP drift eliminators reduces moisture losses through fan drought.

Air Inlet Mesh	Galvanised Steel
Ladder	Galvanised Steel Pipe
Fill Support	Galvanised Steel Pipe
Casing Support Pipe	Galvanised Steel Pipe
Basin	FRP
Fan Guard	Galvanised Steel
Motor Frame Support	Galvanised Steel
Suction Tank	Galvanised Steel

9. WATER TREATMENT CHEMICAL

Anti-scalent
Anti-correction
Biocides -Stable Chlorine based
Boiler Chemical

Quality Like Reliability And Efficiency Have Put The Company Among The Leading Manufactures of Frp/ Wooden Cooling Towers & Chilling Plants