



# COOL SOLUTIONS FOR EVERY INDUSTRY

## CLAYTON COOLING TOWERS



® **CLAYTON**  
TECHNOLOGIES INDIA PVT. LTD.

# IF YOUR NEED IS COOL SOLUTIONS, COUNT ON US

CLAYTON TECHNOLOGIES INDIA PVT. LTD. was incorporated in the year 1999 and has since been steered towards a successful journey under the visionary leadership of Mr. Sanjay Goyal, Managing Director. Today, Clayton is one of the leading manufacturers of cooling towers.

Ever its inception, the company has managed to maintain an excellent track record in manufacturing efficient and customer - centric cooling towers by addressing industrial and demographic challenges through innovative solutions. It is these strengths that have laid the foundation for the company's remarkable growth in a short span of time, to emerge as one of the pioneers in the area of cooling towers.

Over time, our tireless services in the industrial water cooling field has enabled us to build up an enviable support with the industrial giants. We are proud to be associated with GACL, GNFC, IOCL, NIRMA, Aditya Birla Group, BPCL, Lupin, IBI Chematur Ltd., Thyssenkrupp Industrial Solutions Ltd, Larsen & Toubro, IOL Chemicals & Pharmaceuticals, Shyam Group, Ruchi Group, JK Group, and many more.

We, at Clayton, are committed to achieve and sustain consistent high quality cooling towers by carefully selecting all components and materials, and testing them under adverse conditions applicable in operations. Our quality standards often exceed general standards; the objective being to supply a prime quality, durable and low cost cooling tower, and to provide related services to customers in time. All our cooling towers are designed to ensure quiet operation, dependable performance, long life, and ease of maintenance.

## WHY GO COOL WITH US

- ▶ Over 18 years of experience
- ▶ State-of-the-art infrastructure
- ▶ Modern and advanced equipments
- ▶ Latest state-of-the-art technology
- ▶ 100 + large corporate clients
- ▶ Team of cooling tower specialist professionals
- ▶ Superior quality and affordable price
- ▶ Constantly updating cooling tower and spares designs using the latest technologies

## COOL SUPPORT TO EVERY INDUSTRY

 Chemical Plants

 Petrochemical Plants

 Sugar Mills

 Fertilizer Plants

 Central Air Conditioning Plants

 Power Plants

 Pharmaceutical Industries

 Cement Plants

 Paper Mills

 Textile Units

 Food Processing Units

and many more...

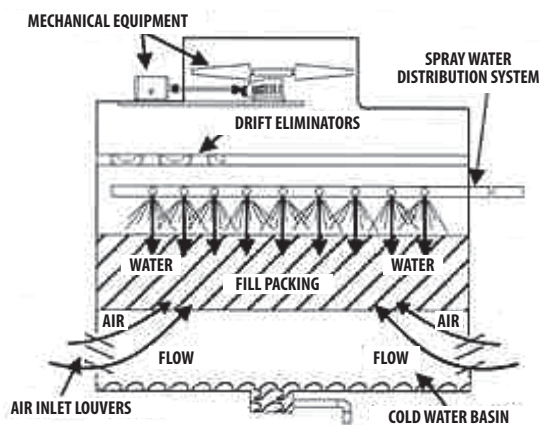
# TYPES OF INDUCED DRAFT COOLING TOWERS, WE OFFER

- RCC Cooling Towers - Counter flow & Cross flow
- Pultruded FRP Cooling Towers - Counter flow & Cross flow
- Timber Cooling Tower - Counter flow & Cross flow

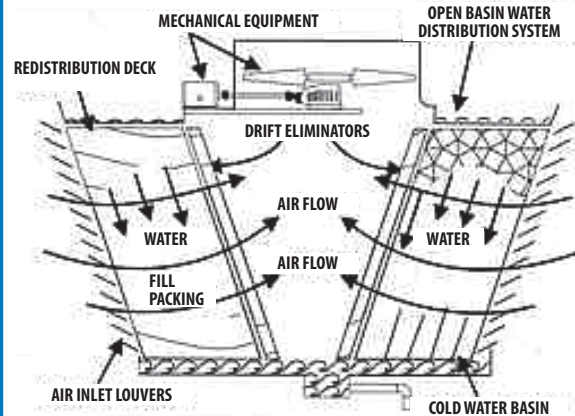
## COOLING TOWERS



### COUNTER FLOW



### CROSS FLOW



# ACCESSORIES PROMISING COOL PERFORMANCE



## COOLING TOWER FANS

Clayton Fans are high efficiency energy saving axial flow type with FRP fan blades of true aerofoil design and MS HDG/SS 304 Hub. Diameter ranging from 2 feet to 33 feet. Also available in aluminum.



## FAN STACK/RECOVERY CONE

All large cooling towers are invariably provided with velocity recovery cone to reduce the pressure drop and thereby increase the energy saving. FRP fan stacks of all diameters and heights for minimum pressure losses.



## GEARBOXES

Specially designed spiral bevel gear boxes are used with overall efficiency around 97% and minimum service factor of 2.0 as specified by CTI standards. Make Premium Transmission or equivalent, in all types of series and ratio and its spares.



## DRIVE SHAFT & PARTS

Dynamically balanced flexible hollow tubular drive shaft with pin bush type coupling (MOC – MS- HDG, SS 304, SS316) for all types of cooling towers. Coupling made of MS- HDG, SS 304, SS316 are available in various sizes to suit your requirement.



## COOLING TOWER FILLS

A wide range of splash type and film flow type fills are available in Timber & PVC material for cross & counter flow cooling towers. Fills are supported in FRP /SS 304 grids which are further firmly attached to the structure.



## DRIFT ELIMINATORS

Newly developed PVC Eliminators used to restrict drift losses to less than 0.05% with minimum pressure drop, reducing the operating cost. Low maintenance and easy to clean.



## NOZZLES

Made of corrosion resistant plastic. Uniform water distribution. Water capacity can be readily changed within single nozzle body. Easy twist lock installation and removal needs no tools.



## MOTORS

TEFC motors flange / foot mounted, IP 55 protected. 415 V, 3 phase, 50 Hz weather proof and are specially designed for cooling tower application. Make BBL/CGL or equivalent.



## STRUCTURE

Structure frame work is of best quality pine wood which is subjected to pressure impregnation by Chromate Copper Arsenate to prevent it from any bacterial attack.

RCC Structure Frame work is done in M30 grade of RCC as per IS standards.

The Pultruded FRP Structural Profiles are made by combining an isophthalic polyester resin with fibre reinforcement having an extraordinary strength and corrosion & chemical resistance. These Profiles are light in weight and provide easy installation & low maintenance.



## HOT WATER DISTRIBUTION

In cross flow towers, the hot water basin is open gravity type and is made of treated timber / plywood fitted with PP gravity target nozzles. In counter flow towers, the water distribution is through a header made of MS-HDG/FRP pipes fitted with SPSC nozzles in PP material.



## OTHER PARTS

Complete bearing sets, Oils Seals, 'O' Rings, Gaskets, Shims, Complete Fan Assembly Clamps with Fasteners, I&U Bolts with Lock Nut, Washer, Flow Control Valves and its Spares, SS 304 Grids and FRP Grids, Tie clip, Bench Tie.



# COOL TECHNOLOGY AND QUALITY

**Clayton 's Technology** in the field of cooling towers is equipped by long history of experience and is kept alive by its state-of-art facilities, international standard processes & systems, and adaptive absorption of advanced technologies backed by its in-house R&D.

We have comprehensive facilities for Design, Engineering, Supply, Erection, Commissioning and Performance Testing of cooling towers in single cell and multi-cell construction and Repair /Revamping of existing cooling towers.

**We believe in:**

***"Quality is remembered long after the price is forgotten."***

Every cooling tower is manufactured by our own team of specialists, civil and mechanical engineers with expertise in thermodynamics, soil mechanics, structural design and machine design – all dedicated for providing the right solution for the diverse requirements of our clients while keeping global environment in mind.

We have a team of committed and well trained engineers assuring you of highly productive cooling towers and associated services at competitive price. Further, we take pride in offering prompt services to our clients at all time.

## SERIES XF - 5C

CLAYTON MODEL	WIDTH		LENGTH	HEIGHT		FAN DIAMETER	OPERATING WEIGHT + (KGS.)
	AT TOP OF TOWER	AT BASIN LEVEL		TO TOP OF FAN CYLINDER	TO TOP OF FAN DECK		
506-241-06	5840 MM	4620 MM	2620 MM	3150 MM	2160 MM	1830 MM	6,300
506-251-06	6450 MM	5230 MM	2620 MM	3150 MM	2160 MM	1830 MM	7,200
508-241-06	5840 MM	4220 MM	2620 MM	3760 MM	2770 MM	1830 MM	7,000
508-251-06	6450 MM	4830 MM	2620 MM	3760 MM	2770 MM	1830 MM	8,000
508-261-06	7060 MM	5430 MM	2620 MM	3760 MM	2770 MM	1830 MM	8,900
506-341-08	6450 MM	5230 MM	3830 MM	3200 MM	2160 MM	2440 MM	9,500
506-351-08	7060 MM	5840 MM	3830 MM	3200 MM	2160 MM	2440 MM	10,800
508-341-08	6450 MM	4830 MM	3830 MM	3810 MM	2770 MM	2440 MM	10,500
508-351-08	7060 MM	5430 MM	3830 MM	3810 MM	2770 MM	2440 MM	11,900
508-361-08	7670 MM	6040 MM	3830 MM	3810 MM	2770 MM	2440 MM	13,200
508-441-08	6450 MM	4830 MM	5050 MM	3810 MM	2770 MM	2440 MM	13,300
508-451-08	7060 MM	5430 MM	5050 MM	3810 MM	2770 MM	2440 MM	15,000
508-461-08	7670 MM	6040 MM	5050 MM	3810 MM	2770 MM	2440 MM	16,900
508-551-10	7060 MM	5430 MM	6270 MM	3890 MM	2770 MM	3050 MM	17,300
508-561-10	7670 MM	6040 MM	6270 MM	3890 MM	2770 MM	3050 MM	19,400
508-571-10	8280 MM	6650 MM	6270 MM	3890 MM	2770 MM	3050 MM	21,700

## SERIES XF - 7C

CLAYTON MODEL	WIDTH		LENGTH	HEIGHT			FAN DIAMETER	OPERATING WEIGHT + (KGS.)
	AT TOP OF TOWER	AT BASIN LEVEL		TO TOP OF HANDRAIL	TO TOP OF FAN CYLINDER	TO TOP OF FAN DECK		
712-351-10	7620 MM	5790 MM	3810 MM	5640 MM	5280 MM	4570 MM	3050 MM	12,900
712-451-12	8230 MM	6400 MM	5030 MM	5640 MM	5280 MM	4570 MM	3660 MM	16,400
712-551-14	8840 MM	7010 MM	6250 MM	5640 MM	5380 MM	4570 MM	4270 MM	20,400
712-651-14	8840 MM	7010 MM	7470 MM	5640 MM	5380 MM	4570 MM	4270 MM	23,700
712-371-10	8840 MM	7010 MM	3810 MM	5640 MM	5280 MM	4570 MM	3050 MM	15,900
712-471-12	9450 MM	7620 MM	5030 MM	5640 MM	5280 MM	4570 MM	3660 MM	20,300
712-571-14	10060 MM	8230 MM	6250 MM	5640 MM	5380 MM	4570 MM	4270 MM	25,200
712-671-14	10060 MM	8230 MM	7470 MM	5640 MM	5380 MM	4570 MM	4270 MM	29,400

## SERIES XF - 9C

CLAYTON MODEL	WIDTH		LENGTH	HEIGHT			FAN DIAMETER	OPERATING WEIGHT + (KGS.)
	AT TOP OF TOWER	AT BASIN LEVEL		TO TOP OF HANDRAIL	TO TOP OF FAN CYLINDER	TO TOP OF FAN DECK		
915-461-12	9850 MM	7620 MM	5030 MM	6550 MM	6200 MM	5490 MM	3660 MM	23,900
915-462-12	9850 MM	7620 MM	9910 MM	6550 MM	6200 MM	5490 MM	3660 MM	45,900
915-571-14	10460 MM	8230 MM	6250 MM	6550 MM	6300 MM	5490 MM	4270 MM	29,700
915-572-14	10460 MM	8230 MM	12340 MM	6550 MM	6300 MM	5490 MM	4270 MM	57,200
915-671-14	10460 MM	8230 MM	7470 MM	6550 MM	6300 MM	5490 MM	4270 MM	34,700
915-672-14	10460 MM	8230 MM	14780 MM	6550 MM	6300 MM	5490 MM	4270 MM	67,100
915-671-16	11070 MM	8840 MM	7470 MM	6550 MM	6270 MM	5490 MM	4880 MM	36,000
915-672-16	11070 MM	8840 MM	14780 MM	6550 MM	6270 MM	5490 MM	4880 MM	70,000



# COOL RANGE OF SERVICES

- ▶ Design, Engineering, Supply, Erection, Commissioning and Performance Testing of Cooling Towers
- ▶ Inspection of your existing cooling towers and a detailed report on inspection
- ▶ Thermal performance tests of existing cooling towers to CTI specifications
- ▶ Report on tests including comparisons with original design conditions
- ▶ Estimates for the repairs or upgrading of all types of cooling towers
- ▶ Supply of genuine spare parts for all makes of cooling towers
- ▶ Dismantling and re-erection of cooling towers
- ▶ Supply of qualified supervisors and labours



# REQUEST FOR ENQUIRIES

While making enquiries, please furnish the following information to enable us to advice you the appropriate cooling tower:

- ▶ Quantity of water to be circulated
- ▶ Hot water temperature to cooling tower
- ▶ Cold water temperature from cooling tower
- ▶ Wet bulb temperature
- ▶ Water analysis report
- ▶ Material of construction of the structure of Cooling Tower (RCC / Pultruded FRP / Timber)
- ▶ Application and location of the installation



# CLAYTON<sup>®</sup>

TECHNOLOGIES INDIA PVT. LTD.

INDORE | VADODARA | KOLKATA | BHUBANESWAR

## FEW OF OUR ESTEEMED CLIENTS



Indore Office: 205, Milinda Manor, 2 RNT Marg, Indore (M.P.) 452 001, INDIA

Tel.: +91 731 4095501, +91 731 4069943, Mob.: +91 8827392902

Vadodara +91 9904070364, Kolkata /Bhubaneshwar +91 97488 86463

[www.claytonindia.com](http://www.claytonindia.com)