

# CASE<sup>®</sup> COOLING TOWERS RT-SERIES

CASE® has had a global presence in the industrial world for more than 25 years. CASE® established itself in the early 1990's and since then has been relentlessly working in the variable fields of Industrial Engineering Activities. CASE® has accomplished a high level of excellence in the manufacturing of the equipments and services provided by it. CASE® has its corporate office cum headquarters situated at National Capital Region, India.



CASE® offers a wide range of state-of-art-the technologies for Coal Gasifiers, Cooling Tower Solutions, Air Pollution Solutions, SCALE-BAN™- Non chemical online water scale preventor , Direct Reduced Iron and critical machinery for Steel Rolling Mills like HSS (High Speed Steel) Rolls, Block Mills, High Speed Finishing Mills etc. The organization aims to deliver globally, the best of quality products at the most economic rates within minimum lead times. "CASE® believes on 'Working for a Safer and a Cleaner Tomorrow'".

CASE® designs and manufactures products, which are specifically required for the purpose. The materials used are carefully selected to ensure the highest standards of performance and to guarantee the consistent quality. All products are subjected to rigorous quality control procedures prior to delivery. The relevant standard authorities and professional associations regularly assess our operative skill and competency.

Our aim is to provide the plant designer, constructor and operator with an efficient, reliable and economical facility. Our products are wholly approved and accepted by all the INDIAN GOVERNMENT ORGANIZATIONS.

CASE® has manufacturing unit situated at Bahadurgarh to cater to the client's needs all over India and abroad. Our works is equipped with the latest technological advancements required for processing and fabrication. These products are scrutinized through our stringent quality control cell, which ensures an excellent product quality.



CASE® is an ISO-9001:2015 certified company. CASE® is also member of the prestigious COOLING TECHNOLOGY institute, USA. which makes sure that we offer international technology at Indian rates.

CASE® has entered into many strategic partnerships with overseas companies for a number of different technologies. These partnerships are a result of our in-depth experience and the technical know-how which we possess. Understanding the importance of technological advancements has been the driving force for these partnerships. By synergizing technology and cost competitiveness, we have been successfully able to introduce many anew systems which have been extremely beneficial for the Indian Industry.

Welcome to CASE® Group and feel free to explore the world of Engineering experienced through the eyes of CASE®.

## SALIENT FEATURES OF CASE® FRP COOLING TOWER

1. FRP BODY: FRP Body of the Cooling Tower is designed to withstand air velocities more than 100km/hr. It is constructed to give aesthetic appeal by UV stabilized pigment. Thickness of the FRP panel are between 4mm to 5mm. The aerodynamic design of the FRP body ensures even suction of air throughout the Cooling Tower for maximum efficiency. Sturdy design ensures lifelong FRP body with zero maintenance. Appropriate gasket inserted between panels, fastened by SS fasteners, ensures no air suction from anywhere in the Cooling Tower apart from air suction vent. Air suction vents are deliberately large in height to decrease the differential pressure across the fan and to increase the efficiency of Cooling tower.

FRP body can come in color of choice of the buyer to merge with the background of the building and industry. FRP bodies come in two variants with and without the water basin. All industrial application prefers without basin model to be installed on concrete tank whereas Air conditioning and Generators application prefer Cooling Tower basin to facilitate installation on the roof top.

CASE® Cooling Towers FRP body is designed in such a manner that there is a zero spillage of water around the Cooling Tower. The drift losses of Cooling Tower are less than 0.001%.



2. COOLING TOWER INTERNALS: All the Cooling Tower internals are fabricated using stainless steel . This ensures absolute corrosion proof life long, zero maintenance, zero downtime Cooling Towers.

3. COOLING TOWER FASTENERS: The body of the Cooling Tower is assembled at the site using stainless steel fasteners. This retains the aesthetic look of the Cooling Tower for life. Fasteners are designed to self-lock so that periodic tightening is not required at all. These fasteners are also life long and stay till the life of the Cooling Tower.



4. COOLING TOWER FAN: Material of construction of Cooling Tower fan can be of FRP or aluminum alloy. These fans are statically and dynamically balanced on automatic balancing machine to avoid any vibrations in the cooling towers. Fans are aerodynamically designed for maximum efficiency and suction of air equally from all sides of the Cooling Tower.



5. **PVC WATER DISTRIBUTION SYSTEM:** Water distribution system of the Cooling Tower is deliberately designed using UPVC distribution pipes. These pipes are totally corrosion proof and can be cleaned of dust or scale during maintenance schedule of the Cooling Tower. The PVC Pipes are sieved of different hole diameter for proper distribution of water through the Cooling Tower surface area. Nozzles and splash bars are deliberately not used to save the water pump power thus increasing the efficiency of the Cooling Towers.

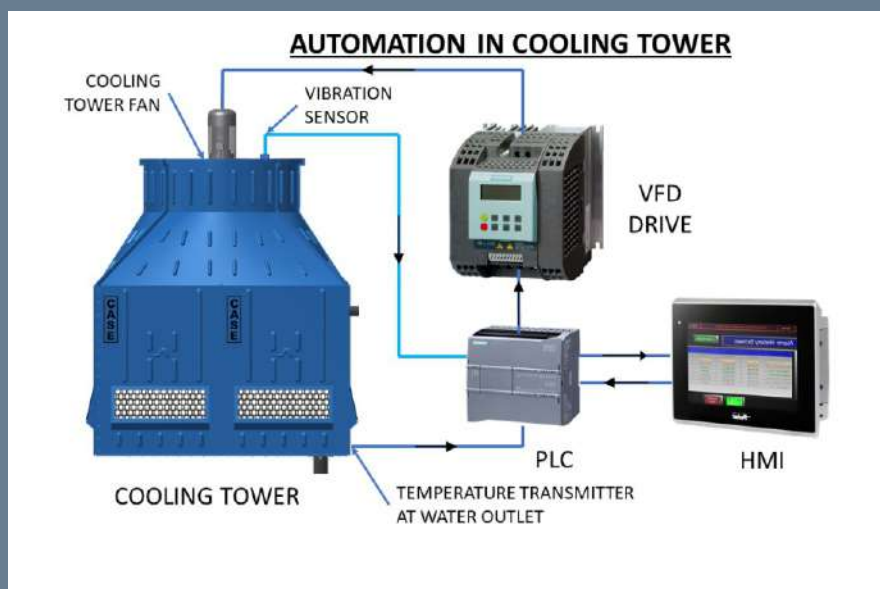
6. **PVC FILLS:** PVC Fills are always suited for HVAC & Industrial application where environment is relatively clean

7. **LIFE LONG FILLS:** For all industrial application CASE<sup>®</sup> Cooling Towers come with state-of-the-art PP cylindrical fills or HDPE round Ball fills. These are life long fills which do not deteriorate with time or usage. Even if the water is dirty or having high hardness there is no chance of clogging or choking of Cooling Tower. These fills can be cleaned during scheduled maintenance and have life equivalent to the Cooling Tower.

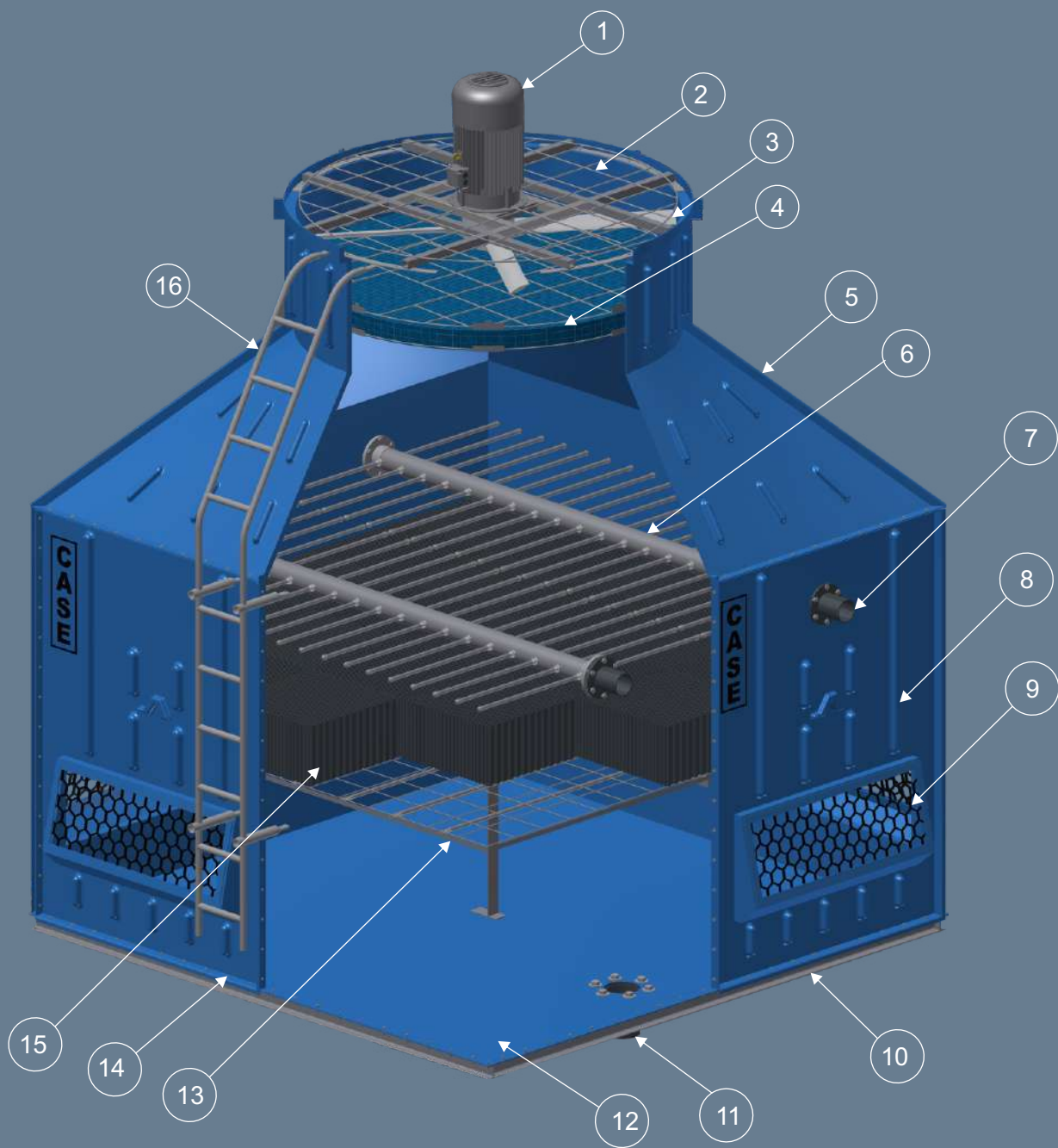


8. **COOLING TOWER MOTORS:** Cooling Tower Motors are of standard make, Totally Enclosed Fan Cooled [TEFC], IP 55 protection, class 'F' insulation, S1 duty, Flange mounted, direct driven, normal shaft size, Induction motors.

9. **AUTOMATION:** This is an optional feature which can save money more than the cost of the Cooling Tower in One year. In this feature Cooling Tower Fan is autoset with set Cooling Tower outlet temperature. In case of winter or extreme summer, Cooling Tower motor can run on lower RPM thus consuming lower ampere, Lower power and saving money.



# SECTIONAL VIEW OF RT- SERIES



NOMENCLATURER	PART NAME
1	ELECTRIC MOTOR
2	FAN GUARD
3	FAN
4	DRIFT ELIMINATOR
5	FRP CYLINDER
6	PVC WATER DISTRIBUTION SYSTEM
7	WATER INLET
8	FRP PANEL
9	AIR INTAKE MESH
10	BASE-FRAME
11	WATER OUTLET
12	FRP WATER BASIN
13	SS FILLS SUPPORT MESH
14	SS FASTENERS
15	PVC HONEYCOMB FILLS
16	LADDER



UNITECH MULTISTORIED COMMERCIAL COMPLEX, NOIDA



GLS FILMS INDUSTRIES PVT. LTD., GURGAON



HOTEL PRISM TOWER, GURGAON





UNITECH INFOSPACE, NOIDA



MINDA KOSEI ALUMINUM WHEEL PVT. LTD., AHMEDABAD



BHUMIJA ISPAT LLP, JABALPUR



A.S. SHOES PVT. LTD., BAHADURGARH





DABUR INDIA LIMITED, RUDRAPUR



SUPER IRON FOUNDRY LTD., BURDWAN



NEPTUNE ISPAT PVT. LTD., DURGAPUR



HOLY FAMILY HOSPITAL, NEW DELHI





HIGHTECH PLAST INDUSRIES PVT.LTD., ROHTAK



JAI DURGA IRON PVT. LTD., KODERMA





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