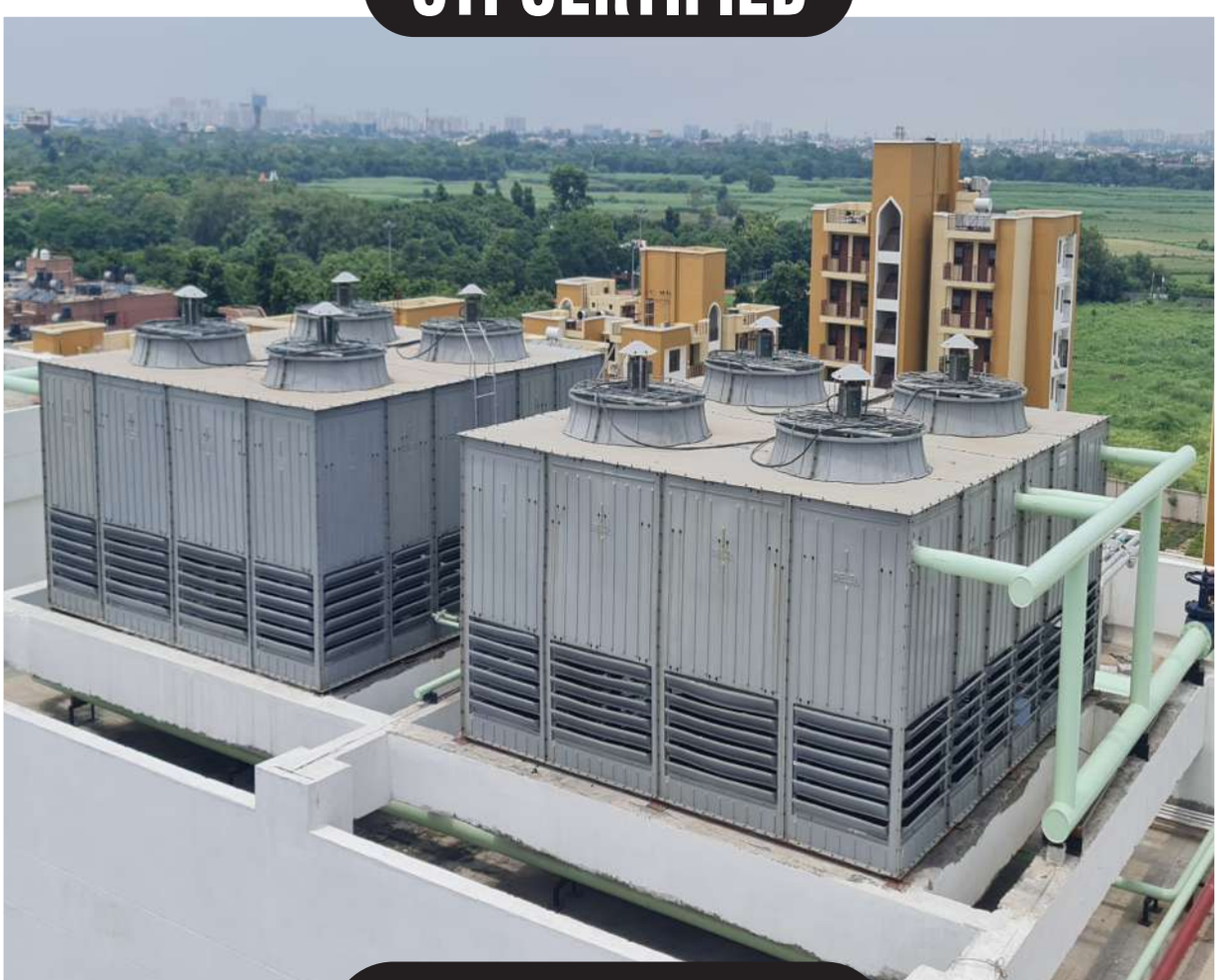
Delta Cooling Towers

CTI CERTIFIED



DFC-60UX

INDUCED DRAFT, COUNTER FLOW

www.deltacoolingtowers.in

1800-111-117

since 1993

DFC-60 UX INDUCED DRAFT, COUNTER FLOW

About the Company



For over 30 years DCTPL has been engaged in the design, engineering and manufacture of high quality, high efficiency Cooling Towers. Through hard work, ethics and constant pursue of excellence Delta has become a hallmark of quality in cooling tower industry of India. Delta continues to play a vital role in developing new technologies and products for the evaporative cooling market of India.

Delta offers a comprehensive range of FRP induced draft cooling towers in round, square and rectangular shape. Delta is an ISO 9001 certified companydriven by the mission of leading the Cooling Tower industry on a global platform.







Our DFC-60UX range of cooling towers is certified for thermal performance by the Cooling Technology Institute (CTI), Houston, USA as per CTI certification standard STD-201. Details of Delta's certification are available at the official website of www.cti.org. Our entire range of cooling towers is also CE certified, ensuring the quality control and workmanship standards. All our products are ASHRAE 90.1 compliant which is a requisite for LEED certification for Green Buildings by the IGBC (Indian Green Building Council of India).

Delta has three fully equipped manufacturing units based out of Bawana in Delhi, Baghpat in Uttar Pradesh and Navi Mumbai in Maharashtra. We manufacture high quality products, which pass through stringent tests before reaching our customers. Our products are extremely durable and efficient and serve the industry with minimum downtime.



Delhi Works



Baghpat Works



Mumbai Works

Further our highly skilled technicians are available to provide timely onsite erection service. We also undertake repair, maintenance and up-gradation of cooling towers of most cooling tower makes. Our service is acclaimed for accuracy and promptness.

Overview

Our DFC-60UX range of cooling towers are CTI certified.

CTI certification provides building owners, designers and installers, assurance of thermal performance, a guarantee that the cooling tower will perform as expected.

MANUFACTURER'S PUBLISHED THERMAL PERFORMANCE IS CERTIFIED BY THE COOLING TECHNOLOGY INSTITUTE UNDER THE PROVISIONS OF STD-201 (96)
Certification Validation No. C85A-18R01
98-14-72

CTI developed the CTI-STD-201 standard or "Certification Standard for Commercial Water-Cooling Towers". STD-201 standard certifies that all models, in a line of cooling towers offered by a manufacturer, will perform in accordance with the manufacturer's published ratings. Basically, it validates the information in the manufacturer catalogues, and provides the customer, assurance that the cooling tower will perform as represented in the catalogues. CTI is dedicated to promote the truthful rating of cooling towers capability. Having CTI certification in advance, eliminates the need for costly onsite field tests, and ensures system performance to meet the design objectives

Model Nomenclature

SERIES DFC -60 UX (CTI STD-201, Certified Line)
There are 41 models available in this series with different box sizes and multiple fan motors ranging from 27 CUM/H to 2700 CUM/H .

Advantages of DFC-60UX



- Modular Construction, easy to scale up.
- Available in 41 shell sizes from 27 CUM/H to 2700 CUM/H
- Certified for thermal performance by the Cooling Technology Institute (CTI), Houston, USA as per CTI standard STD-201.
- Entire range of cooling towers is also CE certified
- All our products are ASHRAE 90.1 compliant
- Can be made available in aestheically pleasing color.
- Light weight , weather proof, Mechanically strong and Impact resistance.
- Provided with Inlet, Outlet, Drain, Make up and Quick Fill Connections.
- Easy to Install and to carry out maintenanace & repair work.
- Can work up to temperature of 60 C.

Applications of DFC-60UX

- HVACR
- Pharmaceutical Industry
- Food and Beverage Industry
- Oil and Gas Industry
- Extruders and Mixing Mills
- Injection Moulding and Blow Moulding Machines
- Diesel Generating Sets
- Thermal Power Plants
- Steel Mills
- Chemical and Fertilizer Plants
- Sugar Industry
- Cement Industry



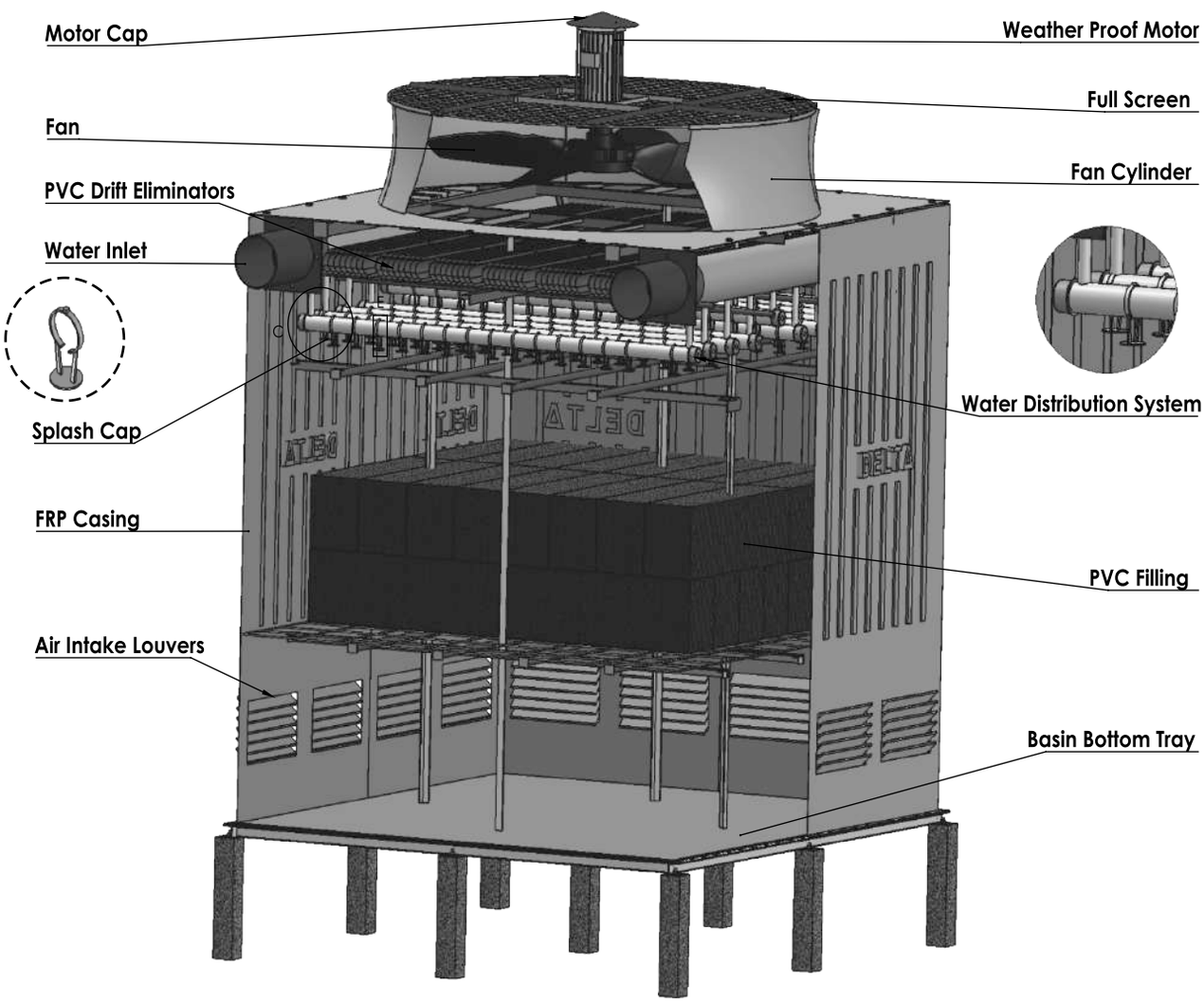
DFC-60 UX INDUCED DRAFT, COUNTER FLOW

Cooling Tower Description

DFC-60UX series is a vertical Induced draft Counter-flow cooling Tower in glass fibre reinforced plastic construction in square/ rectangular shape, complete with fan, motor, surface, spray sections, and eliminators.

Casing & Structure

Casing is made out from high quality glass fibre-reinforced plastic (FRP) with smooth surface finish for minimum resistance to airflow. It has sufficient structural strength to adequately withstand high wind velocities of 60 m/sec and vibrations.The tower supporting structure is made out of hot dipped galvanized steel. Optionally Pultruded FRP structure (Without basin) is also available for highest corrosion resistance and durability.



Inlet Louvers

Louvers are made of high quality glass fibre-reinforced plastic (FRP) and given a proper slope. Spacing of the louvers is arranged in such a fashion that water loss is prevented. Further louver designprovides uniform distribution of air with minimum pressure drop.



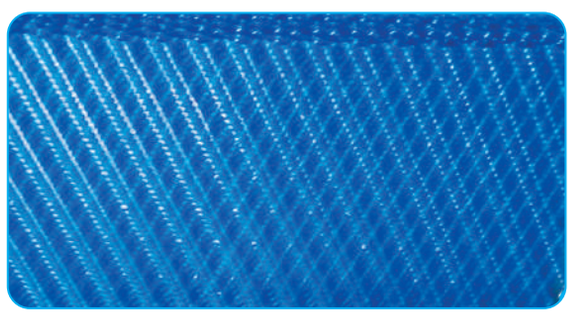
Cold Water Basin

The Cold water basin is of minimum 200 mm depth and made of FRP, which is an integral part of cooling tower panels. The basin is complete with outlet, overflow, and quick-fill and drain connections of adequate sizes.



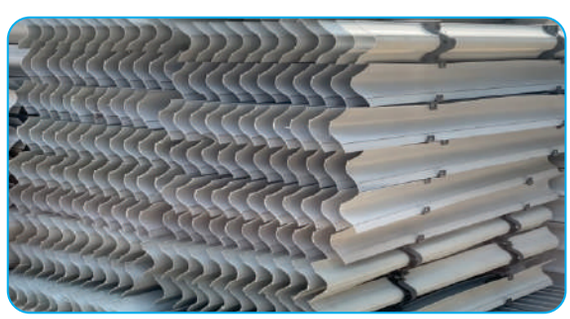
Fills

Fills are made of virgin rigid PVC sheets which are vacuum formed in shape and design of a honey comb structure. The honeycomb structure ensures even distribution of water to achieve maximum heat transfer surface with minimum pressure drop for lowest fan energy consumption.



Eliminator

Drift eliminators are made of extruded PVC in C design with maximum drift loss of 0.005% of the design water flow rate. The eliminator provides maximum efficiency in drift elimination at minimum power consumption.



Hot Water Distribution System

The hot water distribution system comprises of PVC headers located at sides of cooling tower and which are connected to an array of horizontal PVC branch pipes through vertical droppers. These branch pipes are fitted with equally spaced Polypropylene splash caps to ensure uniform distribution of water on the fill area.



Fan

Fan(s) are aerodynamic aerofoil axial type with low noise, high efficiency statically balanced. The fan blades are made of cast aluminium alloy and are with individually adjustable blade pitch angle. Optionally FRP blade is also available. Fan is protected by a fan guard of galvanized steel construction to prevent birds from nesting during idling period & shall be easily accessible for inspection and maintenance.



DFC-60 UX INDUCED DRAFT, COUNTER FLOW

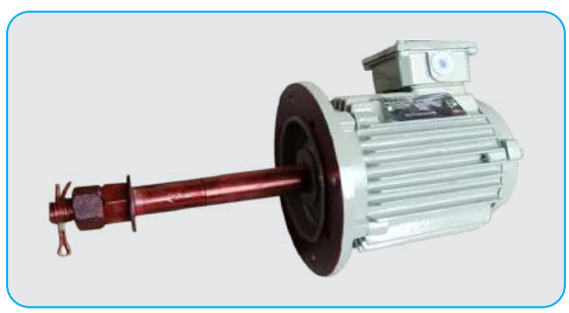
Fan Cylinder

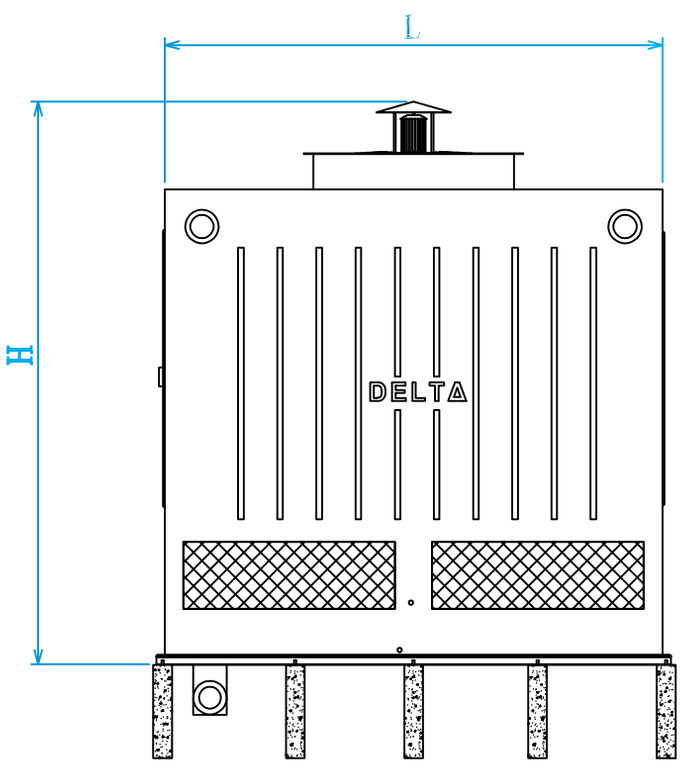
Fan cylinder is designed and manufactured from glass fibre-reinforced plastic (FRP) moulded to provide a large air entry area , smooth approach to the fan and close tip clearances for maximum efficiency and reduced operating costs.



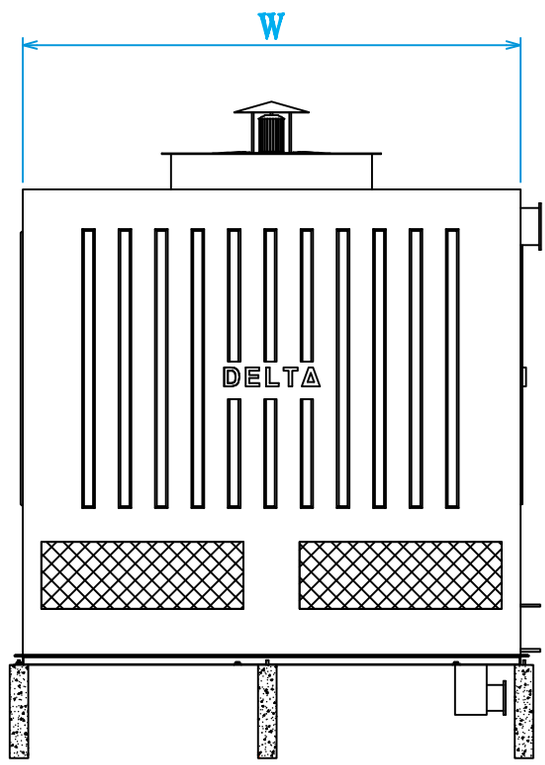
Motor

Motors are TEAO (Totally enclosed Air Over) weather proof, squirrel cage induction type located in the air stream. Motor is with IP-55 enclosure, Class F insulation and of high efficiency class IE3/IE2 (OEM choice). A service ladder (GI construction) is also provided for greater convenience.





Front Elevation



Side Elevation

Delta Cooling Towers P. Ltd.

CIN: U74899DL1993PTC056016

CORPORATE OFFICE

1st Floor, Bhagwati Sadan, Plot no. 8, Community Centre, BH Block (East)
Shalimar Bagh, DELHI-110088 (INDIA) | Tel: +91-11-27495801 / 02 / 03 / 04

SALES OFFICES

DELHI

Ist Floor, Bhagwati Sadan, Plot No. 8
Community Centre, BH-Block
Shalimar Bagh, DELHI –110 088.
Phone : 91-11-27495801-02-03
Email : delta@deltactowers.com
Email : mail@delta.cool

MUMBAI

RMS -34, MIDC
TTC Industrial Area, Rabale
Navi Mumbai-400701
Maharastra.
Phone : +91-9871031141
Email : sales@deltacooling.co.in

WORKS

UNIT 1 (DELHI)

Plot 265 & 266, Pocket I,
Sector 4, DSIIDC Industrial Estate,
Bawana, Delhi-110039.
Phone : +91-11-27761126/27761735

UNIT 2 (MUMBAI)

RMS -34, MIDC
TTC Industrial Area, Rabale
Navi Mumbai-400701
Maharastra.
Phone : +91-9871031141

UNIT 3 (BAGHPAT)

C-32 & B-28, UPSIDC Industrial Area,
Baghpat, 250609 (Uttar Pradesh)
Phone : +91-9811156630

SOCIAL MEDIA

/DeltaCooling
/DeltaCooling
/DeltaCoolingTower
www.delta.cool
/CoolingTowerIndia
/CoolingTower
/CoolingTowers
/Company/DeltaCooling