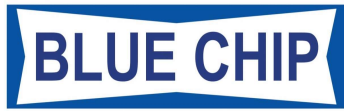


MOULDED FRP COOLING TOWERS



***“GLOBAL LEADER IN DESIGNING, MANUFACTURING AND SUPPLY OF
COOLING TOWERS AND ALLIED UTILITY SOLUTIONS”***



ENGINEERED FOR EFFICIENCY, BUILT FOR RELIABILITY



BLUECHIP make **Counter Flow Cooling Tower** is a cooling system where the flow of air and water moves in opposite directions, enabling efficient heat exchange. Hot water enters at the top and flows downward through the fill media, while air is drawn upward from the bottom, directly opposing the water flow. Counterflow cooling towers are valued for their superior cooling efficiency and space-saving design, making them ideal for high-performance cooling needs in industrial and commercial settings.

Our FRP Induced Draft Cooling Towers Are Engineered For Superior Thermal Efficiency And Ease Of Use. Manufactured In Our State - Of - The - Art Facility With Stringent Quality Controls And Premium Raw Materials, These Towers Deliver Reliable Performance And Durability.

KEY FEATURES OF BLUE CHIP MAKE INDUCED DRAFT COUNTER FLOW TYPE MOLDED FRP COOLING TOWER:

- ❖ **TOTAL 23 MODEL NOS. OF THE COOLING TOWER DEPENDING ON THE SIZE AND DUTY CONDITIONS.**
- ❖ **ASSURED PERFORMANCE.**
- ❖ **CORROSION FREE, COMPACT, LIGHT WEIGHT FRP CONSTRUCTION.**
- ❖ **MAINTENANCE FREE STEADY DISTRIBUTION SYSTEM.**
- ❖ **CAPACITY FROM SINGLE CELL 5 TR TO SINGLE CELL 750 TR.**
- ❖ **MULTI-CELL CUSTOMIZED CAPACITY CAN BE DESIGNED BASIS SITE CONDITIONS.**



TECHNICAL SPECIFICATIONS:

SPECIFICATION	DETAILS
Cooling Capacity	Customizable (5 – 800 TR) Per Cell Capacity
Flow Rate	3 CMH to 500 CMH Per Cell Capacity
Material Options	Moulded FRP
Noise Levels	Low-Noise Operation (<85 dBA)
Water Drift Loss	<0.001%
Operating Temperature Range	Suitable for Extreme Conditions (3 Degrees to 75 Degrees)

SPECIFICATIONS & COMPONENTS OF OUR INDUCED DRAFT MOLDED FRP COOLING TOWER

1. DESIGN

- **HIGH PERFORMANCE:** DESIGNED FOR LOW CAPEX AND OPEX WITH HIGH THERMAL EFFICIENCY.
- **COUNTER-FLOW CONFIGURATION:** ENSURES OPTIMAL PERFORMANCE WITH UNIFORM WATER DISTRIBUTION AND EFFICIENT HEAT TRANSFER.
- **TAPERED AIR EXIT:** CONTROLS AIR EXIT VELOCITY AND REDUCES PRESSURE DROP.
- **DIRECT DRIVE MOTOR:** ELIMINATES THE NEED FOR MAINTENANCE-HEAVY GEAR AND BELT DRIVE SYSTEMS.



2. FILLS & DRIFT ELIMINATORS

- **EFFICIENT COOLING:** MADE OF RIGID PVC IN A HONEYCOMB DESIGN TO MAXIMIZE CONTACT TIME BETWEEN AIR AND WATER.
- **STRENGTH:** BUILT TO WITHSTAND VARIOUS FORCES AND IMPACTS.
- **DURABILITY:** CONSTRUCTED FROM SEGMENTS OF FRP USING HIGH-QUALITY RESINS FOR STRENGTH AND LONG SYSTEM LIFE.
- **MODULAR DESIGN:** ALLOWS FOR EASY MAINTENANCE AND QUICK REFITTING WITH MINIMAL AIR PRESSURE DROP.
- **CUSTOMIZATION:** AVAILABLE IN 12, 19, 27 MM CONFIGURATIONS BASED ON SYSTEM DESIGN AND USER REQUIREMENTS.
- **WATER LOSS REDUCTION:** CRAFTED FROM RIGID PVC TO MINIMIZE WATER CARRY-OVER LOSSES. ENSURES MIST CARRYOVER IS LESS THAN 0.005% OF THE CIRCULATING WATER FLOW RATE.



3. FILLS AND DRIFT ELIMINATORS SUPPORT

- **ROBUST SUPPORT:** MADE FROM HDG STEEL TO PREVENT FILL COLLAPSE DURING OPERATION, AVOIDING SUSPENDED 'C' CHANNEL SYSTEMS.



4. WATER DISTRIBUTION SYSTEM

- **CONSISTENT DISTRIBUTION:** UTILIZES STATIC PIPES WITH MULTIPLE BRANCH ARMS AND POLYPROPYLENE SPRAY NOZZLES FOR EVEN WATER SPREAD.
- **VERSATILE MATERIALS:** CAN BE DESIGNED IN GI, PVC, PP, SS 304, AND OTHER MATERIALS BASED ON SYSTEM REQUIREMENTS.



5. FAN ASSEMBLY

- **AXIAL FLOW DESIGN:** FEATURES A FAN MADE FROM CAST ALUMINIUM ALLOY OR HOLLOW FRP, BALANCED FOR STATIC AND DYNAMIC PERFORMANCE.
- **HIGH EFFICIENCY:** ACHIEVES HIGHER AIR PULLING EFFICIENCY AT LOW OPERATING POWER.



6. FAN DRIVE MOTOR



- **WEATHERPROOF AND DURABLE:** AVAILABLE IN A T.E.F.C. WEATHERPROOF, IP-55 ENCLOSURE WITH CLASS 'F' INSULATION, SUITABLE FOR OUTDOOR INSTALLATIONS.
- **MAINTENANCE - FREE:** ELIMINATES THE NEED FOR V-BELTS OR GEAR DRIVES.

7. INSPECTION / ACCESS WINDOW

- **EASY MAINTENANCE:** PROVIDES CONVENIENT ACCESS FOR MAINTENANCE AND PERIODIC INSPECTION WITHOUT INTERRUPTING NORMAL OPERATION.

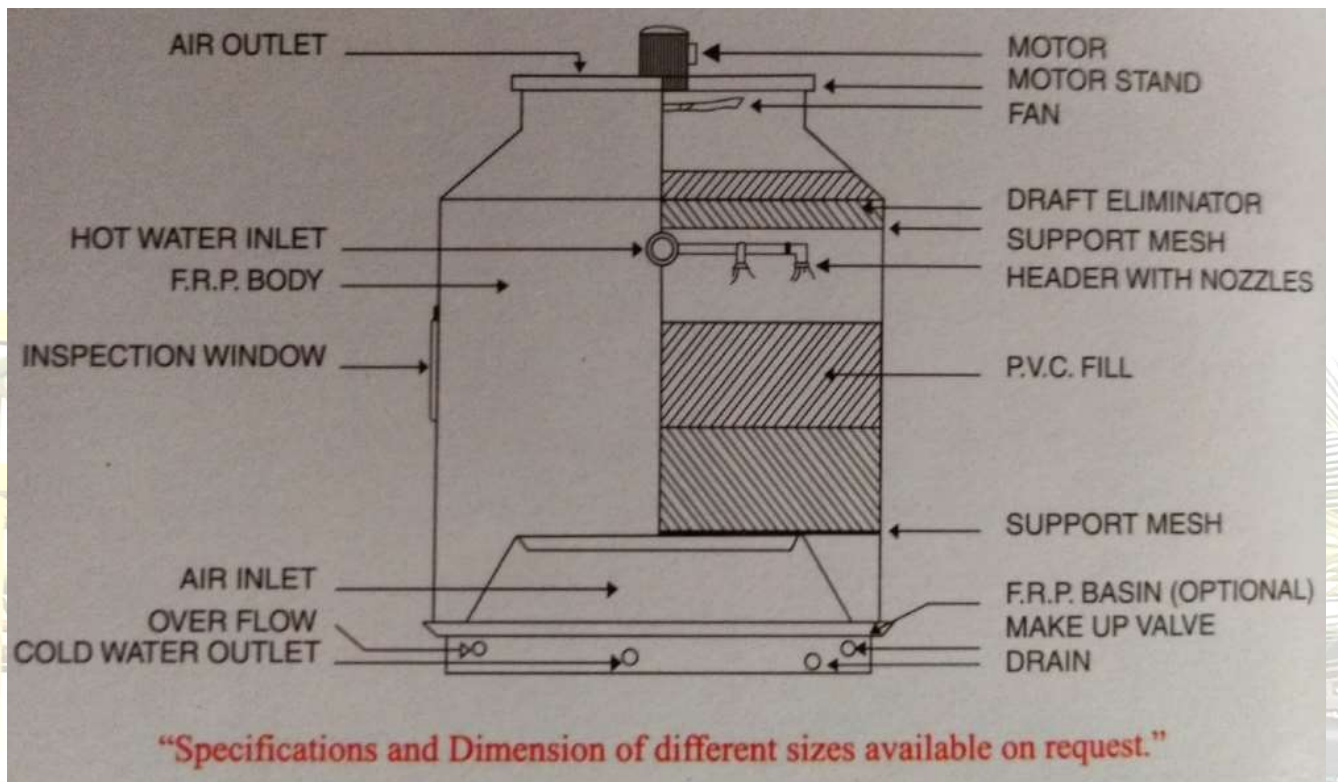
8. BASIN

- **PREFABRICATED FOR QUICK INSTALLATION:** MADE FROM FRP WITH INCLUDED FITTINGS SUCH AS MAKE-UP, OVERFLOW, AND DRAIN CONNECTIONS.
- **OPTIONAL FEATURES:** AVAILABLE BASED ON USER NEEDS.



CUSTOMER SUPPORT AND SERVICES

- **CONSULTATION AND DESIGN:** Custom cooling solutions tailored to your specific needs.
- **INSTALLATION ASSISTANCE:** Expert installation and commissioning support.
- **MAINTENANCE PLANS:** Comprehensive service plans to ensure optimal performance.
- **24 / 7 TECHNICAL SUPPORT:** Our team is always ready to assist you.



APPLICATIONS

BLUECHIP Counter Flow Cooling Towers are versatile and ideal for:

Industrial Applications	Commercial Applications	Specialized Industries
Power Plants	HVAC Systems	Food And Beverage
Petrochemical And Refining	Data Centers And IT	Pharmaceutical And Chemical
Metal and Steel	Hospitals And Healthcare	Automotive And Aerospace

LONG TERM ASSOCIATED CUSTOMERS & CONSULTANTS

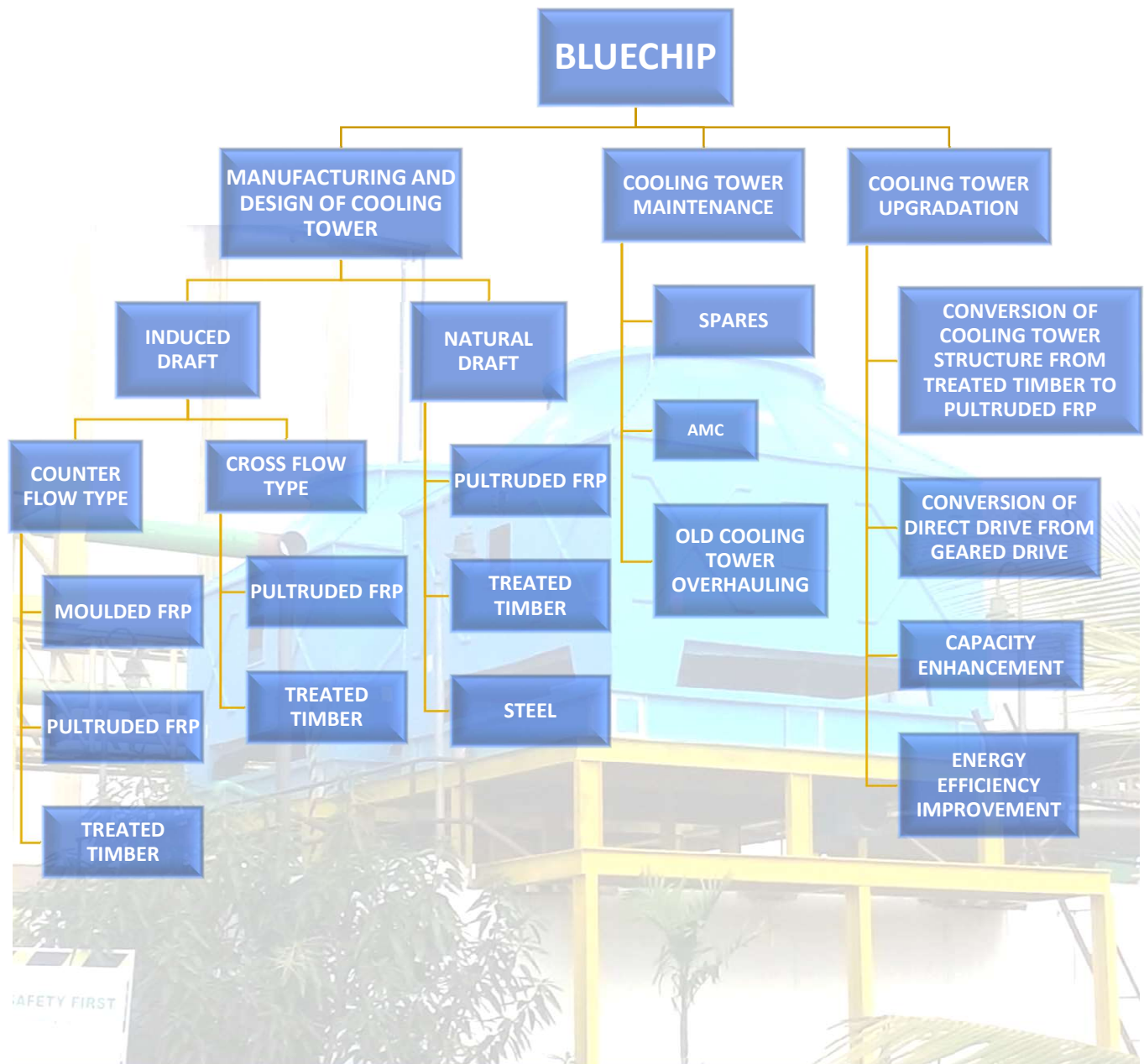
Aarti Industries Ltd	Inox Air Products Ltd	Alfa Laval India
Deepak Nitrite Ltd	Coromandel International Ltd	Lupin India Ltd
Dorf Ketal India Ltd	Chemie Organics Ltd	UPL
Meghmani Organics Ltd	Sun Pharma Ltd	Zydus Lifesciences Ltd
IFFCO	Tata Steel India Ltd	Cipla Ltd
Pidilite India Ltd	Aditya Birla Group Ltd	Kumar Metal India
Servotech India	Valiant Organics Ltd	Anupam Rasayan Ltd
Deepak Phenolics Ltd	Aarti Drugs Ltd	Aarti Surfactants Ltd
Meghmani Finechem Ltd	Songwon India Ltd	ZCL Chemicals Ltd
Lubrizol India	Mitsuchem Plast Ltd	Hindustan Monomers Ltd
Hikal Ltd	Hetero India Ltd	Nath Industries Ltd
Institute of Chemical Technology (ICT), Mumbai	Associated Alcohol and Breweries Ltd (AABL)	Enmax Engineering India
Servotech India	Piramal Glass	Sajjan India Ltd
Kuwait Refinery	Mount Meru Millers	Alembic Pharma
Prasol Chemicals	Krishna Phoschem Ltd	Madhya Bharat Agro Ltd
Excelsource India	Time Technoplast Ltd	Chemie Organics Ltd
Indo Amines Ltd	Bluejet Healthcare Ltd	Echjay Industries Ltd

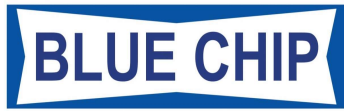
Toyo Engineering	Shroff Engineers	Lele Consultants
Technophil Consultants	TKT Consultants	Mott McDonald
L&T Engineering	Jacobs	JNCE Engineering
Enmax Engineering	Universal MEP Projects and Engineering Services Limited (UMPESL)	Ketav Consultants
Zeppelin	Knexir	Aevitas

SITE IMAGES



BLUE CHIP INDUSTRIES OFFERINGS / PRODUCTS





**ENGINEERED FOR EFFICIENCY,
BUILT FOR RELIABILITY**



Maximize your cooling efficiency and reduce operational costs with BLUECHIP's Counter Flow Cooling Towers. Let us help you achieve unparalleled performance for your industrial and commercial cooling needs.



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