



ENGINEERED FOR EFFICIENCY, BUILT FOR RELIABILITY

MOULDED FRP COOLING TOWERS



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

BLUECHIP make **Moulded FRP 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	<0.005%
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.A.O. 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.

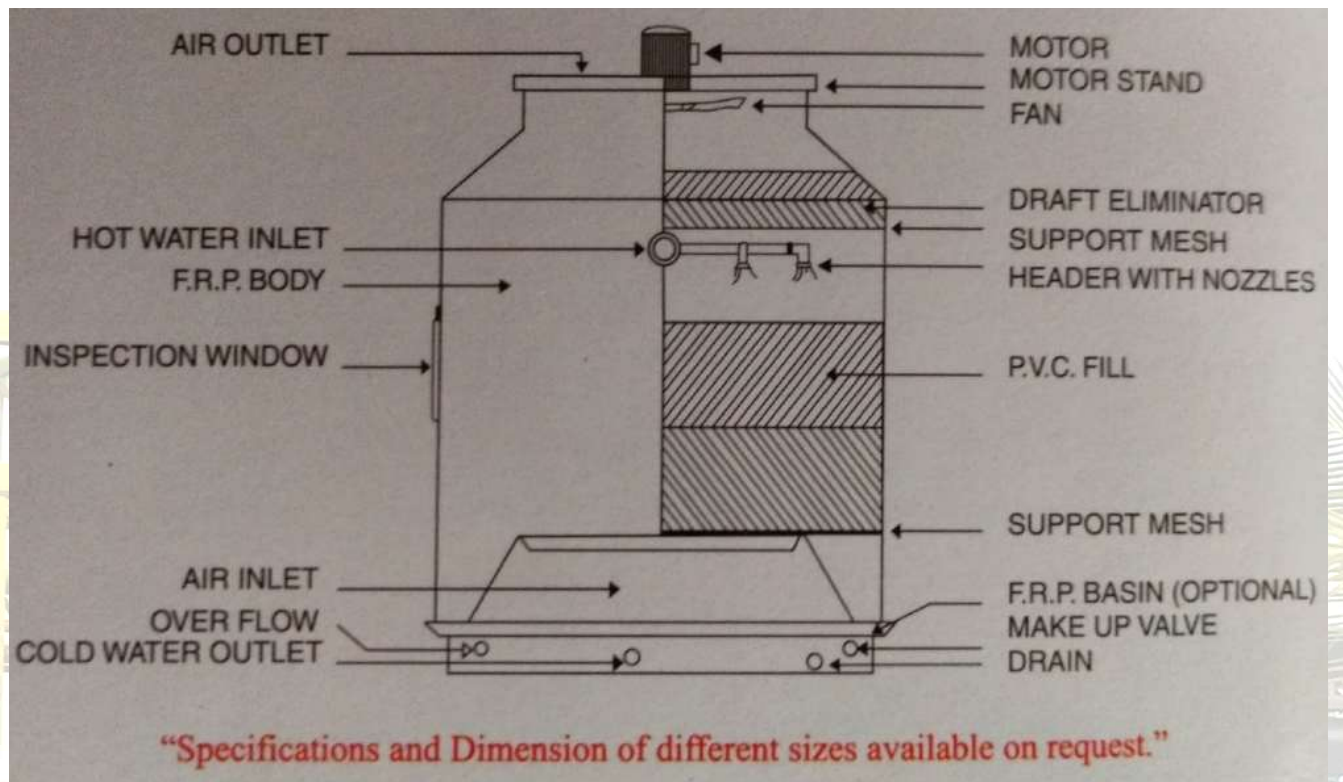
8. BASIN

- **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
AWL Agri Business (Adani Wilmar)	Ishan Dyes & Chemical Ltd	JSW Steel
TATA Steel	Congo Oil and Derivatives	Grassland Industries
Deepak Nitrite Ltd	Coromandel International Ltd	Lupin India Ltd
Dorf Ketel 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
Valiant Advance Science Pvt Ltd	JRS Pharma	Goenka Group
Surface Wilmer	Alchemie Finchem Pvt. Ltd.	Calcimag Chemicals India
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 MacDonald
L&T Engineering	Jacobs	JNCE Engineering
Enmax Engineering	Universal MEP Projects and Engineering Services Limited (UMPEL)	Ketav Consultants
Zeppelin	Knexir	Aevitas

SITE IMAGES



SPARES

BLUECHIP MAKE Spares are designed to ensure seamless cooling tower operations with a comprehensive range of high-quality components, including fill media, fans, motors, drift eliminators, nozzles, and water distribution systems. Engineered for compatibility, reliability, & efficiency, BLUECHIP - approved spares minimize downtime and enhance performance, making them an essential choice for effective maintenance and extended service life. Trust BLUECHIP MAKE Spares to deliver unmatched quality and durability for your cooling tower needs.

MECHANICAL EQUIPMENT:

1. Aero foil-Type Fans:

- FRP/FRVE Blades with HDG Hub: Lightweight, energy-efficient, and available in multiple configurations.
- Aluminum Blades with Hub: Durable, low power consumption, and long-lasting.
- Plastic Blades with Aluminum Hub: Ideal for small cooling towers.

2. Motors:

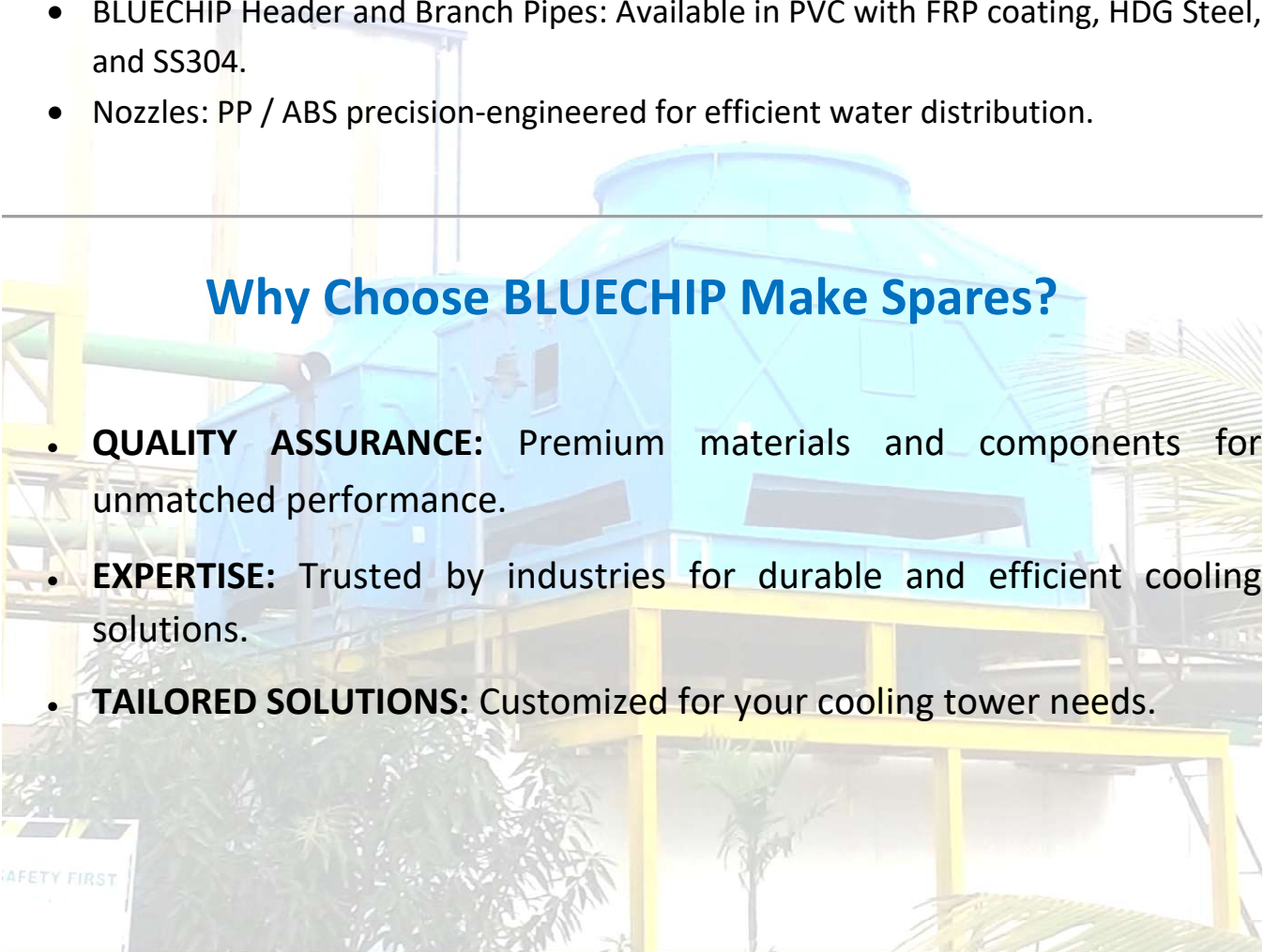
- Extended Shaft Flange Mounted (New India/Hindustan) for Direct Drive Application: Belt-free design, IE2, IE3, or IE4 efficiency ratings.
- Foot Mounted for Geared Drive Application (BBL/CGL/ABB/Siemens): Suitable for large cooling towers, universally accepted.

3. Fills:

- BLUECHIP PVC & ABS Honeycomb Fills: Compact design for clean and high-temperature applications.

4. Water Distribution Systems:

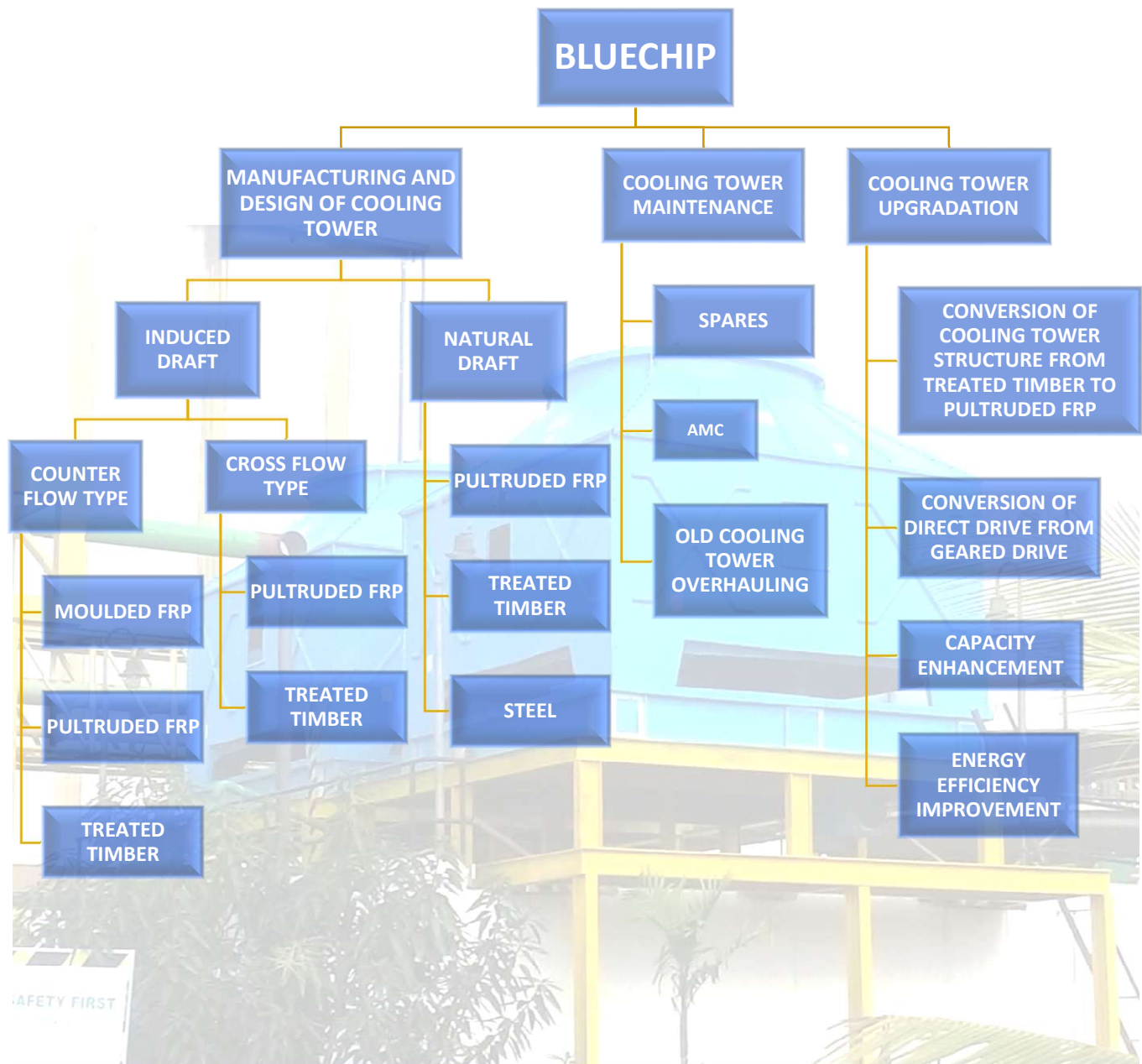
- BLUECHIP Header and Branch Pipes: Available in PVC with FRP coating, HDG Steel, and SS304.
- Nozzles: PP / ABS precision-engineered for efficient water distribution.



Why Choose BLUECHIP Make Spares?

- **QUALITY ASSURANCE:** Premium materials and components for unmatched performance.
- **EXPERTISE:** Trusted by industries for durable and efficient cooling solutions.
- **TAILORED SOLUTIONS:** Customized for your cooling tower needs.

BLUE CHIP INDUSTRIES OFFERINGS / PRODUCTS



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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