



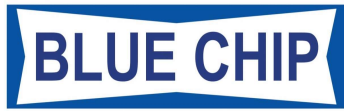
**ENGINEERED FOR EFFICIENCY,
BUILT FOR RELIABILITY**



NATURAL DRAFT COOLING TOWERS



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



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BLUE CHIP MAKE Natural Draft Cooling Towers harness the natural buoyancy of warm air to create an upward airflow, eliminating the need for mechanical fans or motors. This passive airflow design makes them exceptionally energy-efficient, significantly reducing operational costs over the long term.

With no moving parts, these towers require minimal maintenance, ensuring a longer lifespan and greater reliability compared to mechanical draft alternatives. Their robust structure is designed to perform optimally in demanding industrial environments.

KEY FEATURES OF BLUE CHIP MAKE NATURAL DRAFT COOLING TOWER:

- ❖ FAN-LESS & FILL-LESS DESIGN
- ❖ LOW AUXILIARY POWER CONSUMPTION
- ❖ ZERO MAINTENANCE
- ❖ NO BREAKDOWN / DOWNTIME
- ❖ LOW INITIAL & OPERATING COST
- ❖ LONGER SERVICE LIFE
- ❖ IDEAL FOR EJECTOR SYSTEMS
- ❖ HIGH TDS AND PH VALUES
- ❖ IDEAL FOR DIRTY WATER APPLICATION

TECHNICAL SPECIFICATIONS:

SPECIFICATION	DETAILS
Cooling Capacity	Customizable (50 – 5000 TR)
Flow Rate	As Per Customer Requirement (Upto 90 CMH or More)
Material Options	ASCU Treated Timber, Pultruded FRP, Galvanised Steel
Noise Levels	Virtually Silent (Fan-less Operation)
Operating Temperature Range	Designed For Wide Ambient Conditions

SPECIFICATIONS & COMPONENTS OF OUR NATURAL DRAFT COOLING TOWER

1. STRUCTURE:

- PROVIDES THE **PRIMARY SUPPORT** AND FRAMEWORK FOR THE COOLING TOWER, DESIGNED TO WITHSTAND **VARIED ENVIRONMENTAL CONDITIONS**, ENSURING **LONG-TERM STABILITY** AND **MINIMAL MAINTENANCE**.
- **MATERIALS USED FOR THE STRUCTURE: PULTRUDED FRP, ASCU TREATED TIMBER, AND GALVANISED STEEL.**
- **PULTRUDED FRP** OFFERS A **LIGHTWEIGHT, CORROSION-RESISTANT** DESIGN, ENSURING **LONGEVITY** IN HARSH ENVIRONMENTS.
- **ASCU TREATED TIMBER** PROVIDES A **NATURAL, ECO-FRIENDLY** OPTION, IDEAL FOR INDUSTRIES FOCUSED ON **SUSTAINABILITY**.
- **GALVANISED STEEL** ENSURES **STRENGTH** AND **DURABILITY**, SUITABLE FOR **HEAVY-DUTY INDUSTRIAL APPLICATIONS**.



2. LOUVERS:

- **MATERIAL: FRP (FIBERGLASS REINFORCED PLASTIC)**
- DESIGNED TO CONTROL THE **AIR INTAKE** AND PREVENT **DEBRIS** OR **SUNLIGHT** FROM ENTERING THE COOLING TOWER.
- **CORROSION-RESISTANT** MATERIAL ENSURES **DURABILITY** AND **LONG-TERM PERFORMANCE** IN VARIOUS ENVIRONMENTAL CONDITIONS.
- ALLOWS **EFFICIENT AIRFLOW**, IMPROVING OVERALL COOLING TOWER EFFICIENCY.
- **LOW-MAINTENANCE** DESIGN, REDUCING THE NEED FOR FREQUENT REPAIRS OR REPLACEMENTS.



3. NUTS, BOLTS, AND WASHERS:

- **MATERIALS: GI (GALVANIZED IRON) OR SS 304 (STAINLESS STEEL)**
- ENSURES SECURE **ASSEMBLY** AND STRUCTURAL INTEGRITY OF THE COOLING TOWER.
- **GALVANIZED IRON (GI)** OFFERS EXCELLENT **CORROSION RESISTANCE**, MAKING IT IDEAL FOR GENERAL APPLICATIONS.
- **STAINLESS STEEL 304** PROVIDES SUPERIOR **RUST RESISTANCE** FOR USE IN **HARSH ENVIRONMENTS** OR CORROSIVE CONDITIONS.
- **WEATHERPROOF** AND **HIGH TENSILE STRENGTH** ENSURE LONG-TERM STABILITY AND PERFORMANCE UNDER VARYING OPERATIONAL STRESSES.

4. WATER DISTRIBUTION SYSTEM:

- **SPRAY NOZZLES MATERIALS: POLYPROPYLENE OR ABS.**
- **HEADER / BRANCH PIPE MATERIALS: GI, PVC, PP, SS 304, OR OTHERS AS PER SYSTEM REQUIREMENTS.**
- RESPONSIBLE FOR THE **UNIFORM DISTRIBUTION OF WATER** INSIDE THE COOLING TOWER TO MAXIMIZE **EVAPORATIVE COOLING**.
- **SPRAY NOZZLES** ARE BUILT FOR **HIGH FLOW RATES** WITH OPTIONS FOR **CHEMICAL RESISTANCE** (POLYPROPYLENE) OR **IMPACT DURABILITY** (ABS).



- **HEADER AND BRANCH PIPES** SUPPLY WATER TO NOZZLES; MATERIALS ARE SELECTED BASED ON **CORROSION RESISTANCE, TEMPERATURE, AND SYSTEM NEEDS.**
- DESIGNED FOR **LOW CLOGGING**, CONSISTENT **PRESSURE BALANCE**, AND **EASE OF MAINTENANCE.**

5. BASIN

- **MATERIALS:** MS / RCC (REINFORCED CEMENT CONCRETE) BY PURCHASER OR FRP.
- ACTS AS THE **COLLECTION POINT** FOR COOLED WATER BEFORE IT IS RECIRCULATED INTO THE SYSTEM.
- **RCC BASINS** ARE TYPICALLY CONSTRUCTED ON-SITE BY THE PURCHASER, OFFERING **HIGH STRENGTH** AND **LONG-TERM DURABILITY**.
- **FRP BASINS** ARE **LIGHTWEIGHT**, **CORROSION-RESISTANT**, AND IDEAL FOR **MODULAR** OR **PRE-FABRICATED** TOWER SETUPS.
- DESIGNED TO MINIMIZE **WATER LOSS**, ENSURE **CLEAN STORAGE**, AND ALLOW FOR **EASY DRAINAGE AND MAINTENANCE**.



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



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LONG TERM ASSOCIATED CUSTOMERS & CONSULTANTS

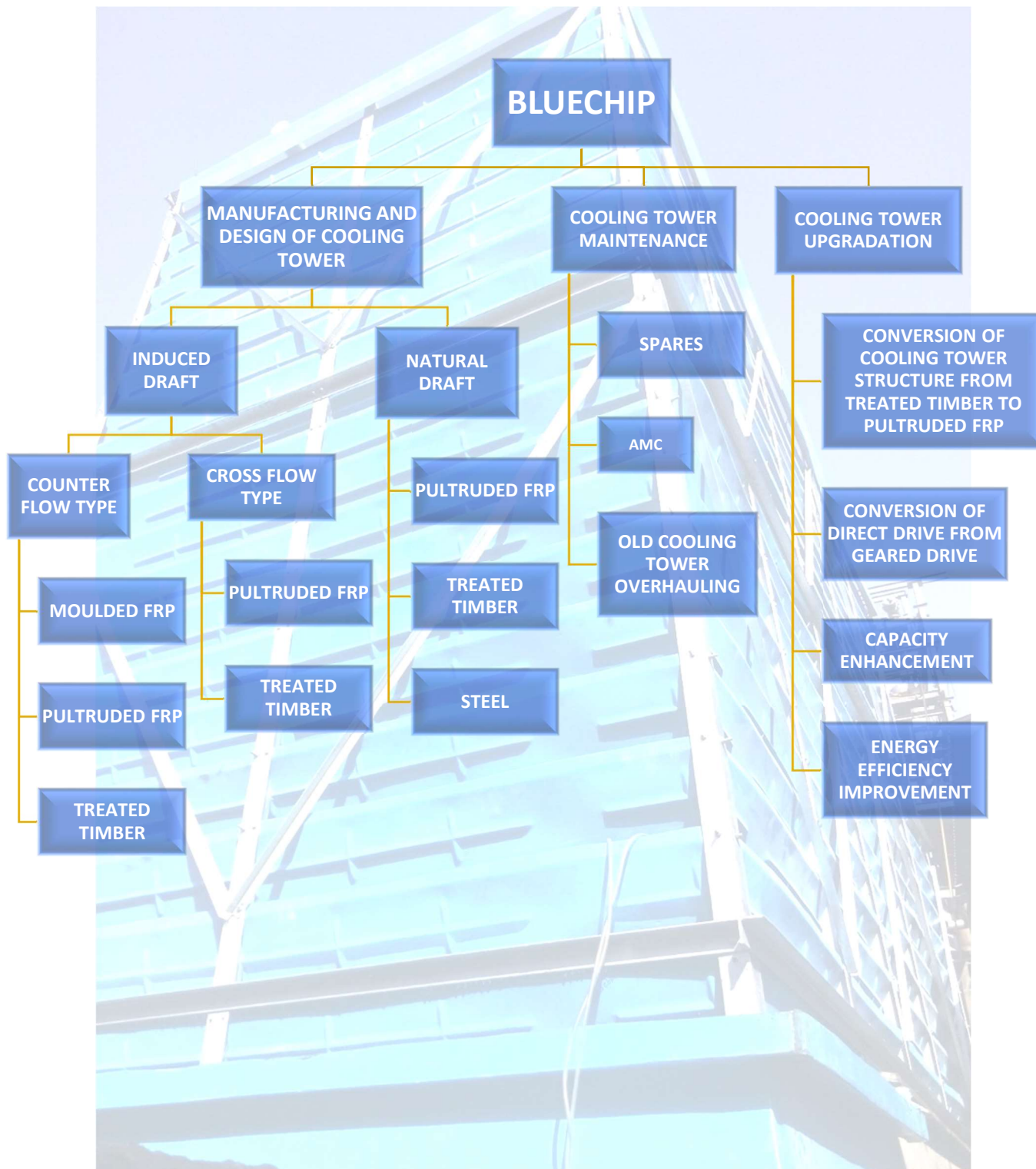
Aarti Industries Ltd	Inox Air Products Ltd	Alfa Laval India
Deepak Nitrite Ltd	Coromandel International Ltd	Lupin India Ltd
Dorf Ketal India Ltd	Chemie Organics Ltd	UPL
Meghmani Organics Ltd	Sun Pharma Ltd	Zydus Lifesciences Ltd
IFFCO	Tata Steel India Ltd	Cipla Ltd
Pidilite India Ltd	Aditya Birla Group 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

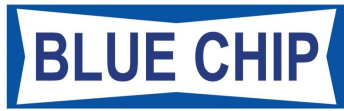
Toyo Engineering	Shroff Engineers	Lele Consultants
Technophil Consultants	TKT Consultants	Mott McDonald
L&T Engineering	Jacobs	JNCE Engineering
Enmax Engineering	Universal MEP Projects and Engineering Services Limited (UMPESL)	Ketav Consultants
Zeppelin	Knexir	Aevitas

SITE IMAGES



BLUE CHIP INDUSTRIES OFFERINGS / PRODUCTS





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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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