

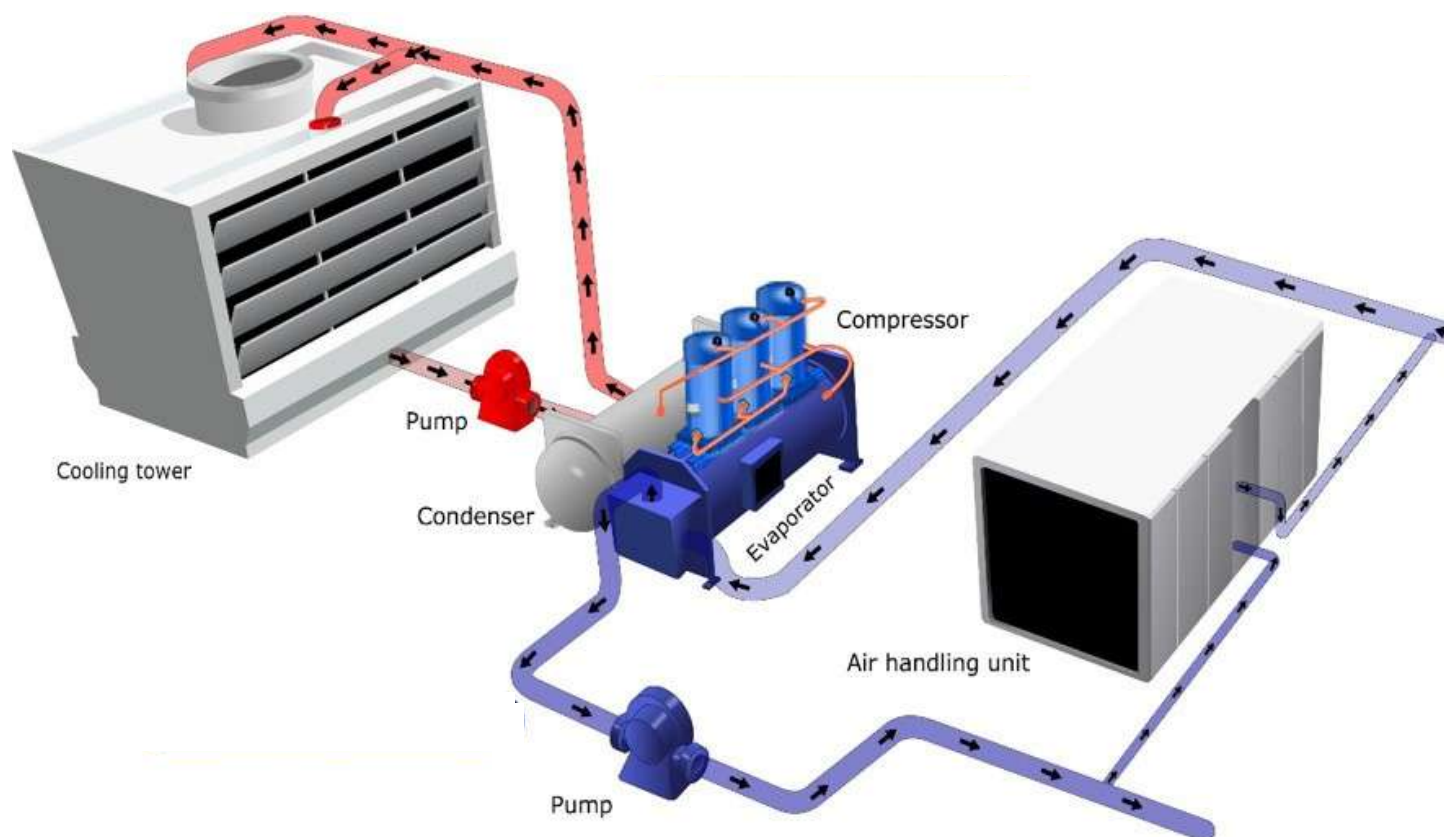
# 66

## ENERGY AND WATER SAVINGS EXPERTS IN HVAC SYSTEMS

WE OFFER  
UNCONDITIONAL  
MONEY-BACK  
GUARANTEE FOR  
EACH OF OUR  
PRODUCTS



WE PROUDLY  
SUPPORT UNITED  
NATION'S  
SUSTAINABLE  
DEVELOPMENT  
GOALS FOR 2030



REACH OUT TO US



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## GERMAN DESIGN COOLING TOWERS - 50% LOWER POWER CONSUMPTION

Our superior cooling towers come with a thermal performance guarantee for 8 years.

Compared to conventional towers, our products delivered the following benefits to our clients:

- Lower power consumption (up to 50%)
- Occupies 30% lower cross-sectional space
- Non-clogging fills with 15-20 years of life
- No gearbox is needed for fans upto 3 m
- No metal components are used in the tower structure
- We use fire retardant materials as MOC
- Lowest drift loss (0.005%)



## COOLING TOWER FANS - 20% ENERGY REDUCTION

Our tailor-made composite FRP fans deliver guaranteed 20% energy savings compared to conventional metal or FRP fans.

Our blade design combines a superior aerodynamic profile along with high twist and camber characteristics to deliver the following benefits to our clients:

- High air flow with low power consumption
- Lower angle leading to low starting torque
- Low Noise
- Low maintenance
- High life time (15-20 years)

### Our range of offerings

- Sizes: 2 to 40 feet (600 to 12000 mm)
- No of blades: 4 to 18
- Static Pressure: Up to 1 inch (25 mm) WC
- Speed: Up to 1440 RPM
- Operating Air Temperature: -40 to 80 degC

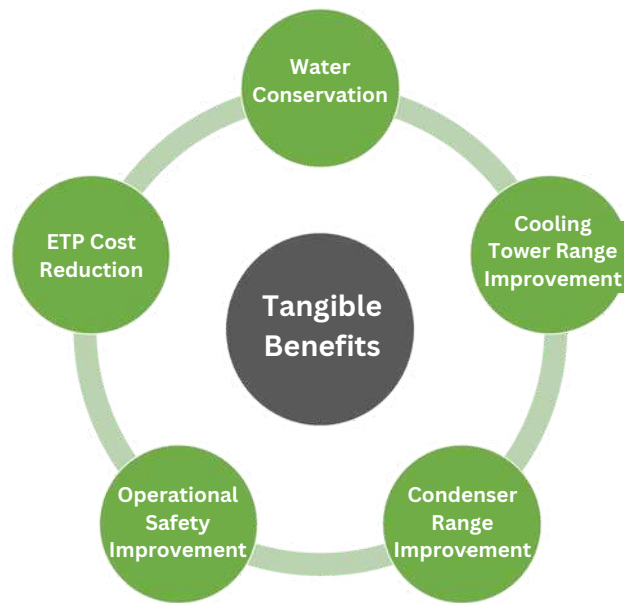
## COOLING TOWER FILLS - 50% PERFORMANCE IMPROVEMENT

Our non-clogging and non-fouling german-design trickle fills deliver guaranteed constant thermal performance for 5 years .

Our trickle fills deliver the following benefits to our clients:

- Made from a UV-protected polypropylene copolymer (1.5 mm thick)
- Can be cleaned with high-pressure sprayers
- Can be easily retrofitted to counter flow towers
- Patented Mechanical Assembly (MA) technology for glue-free packs that can be assembled on site
- Advanced geometry allows for over 3,600 drip points per ft<sup>3</sup> (127,000/m<sup>3</sup>)
- Fire-retardant additives available
- Maximum continuous operation at 176°F (80°C)





## ZERO BLOWDOWN IN COOLING TOWERS

Our plant-based organic water treatment liquid enables blowdown elimination in cooling towers.

Our products delivered the following benefits to our clients:

- reduces blowdown by 85-98% by stabilizing water parameters of the circuit within an acceptable range
- reduces circulating water hardness
- converts TDS (ionic) to TSS (non-ionic)
- eliminates algae and fouling
- eliminates dissolved oxygen
- removes existing scaling and fouling and prevents new formation, thereby cleaning condenser tubes, pipelines, and fills

## AUTOMATIC TUBE CLEANING SYSTEM - 10% REDUCTION IN APPROACH

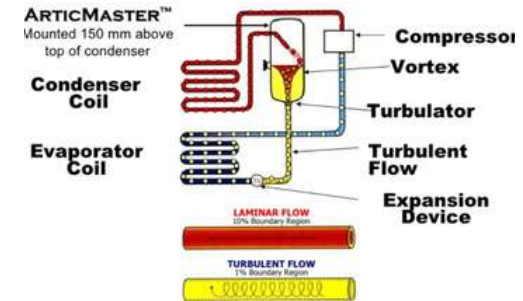
Our industry-first pumpless condenser tube cleaning system reduces the approach of the condensers by 10-15% when coupled with our organic water treatment liquid.

Our product delivers the following benefits to our clients:

- Only system in the market which does not use any high-pressure pump to move the cleaning balls across the condenser tubes
- We can control multiple ATCS systems by using a single controller
- Our ball arrester system ensures zero pressure drop across it during operation
- We have a zero ball loss system which ensures no ball escapes the system and lands at the cooling tower



## Articmaster Operation



## 20% CHILLER ENERGY SAVINGS

Our novel technologies deliver guaranteed 20% energy savings in air-cooled chillers and 10% in water-cooled chillers.

Our product delivers the following benefits to our clients:

- Acts as a secondary condenser to the chiller and optimizes the refrigerant cycle
- Allows the cooling system to remove more heat from the process, thereby reducing the load on the compressor
- Allows the refrigerant system to operate in its most efficient pressure and temperature band
- Is a static device that needs no power and has no moving parts
- No negative impact on chiller operations
- Long life of the equipment - 10 years



## 40% AHU ENERGY REDUCTION

Our industry-leading ECBlue Smart System delivers guaranteed 40% savings in energy consumption of AHUs.

Our products delivered the following benefits to our clients:

- the only system to offer EC Motors with FRP Blowers for maximum efficiency
- speed modulation through in-built controller - eliminates need of VFD
- Option to modulate system based on temperature or air-flow
- our system provides natural redundancy
- robotically coupled motors and blowers which are dynamically balanced
- our system can withstand wide range of voltage and humidity conditions
- future proof - BMS integration-ready
- lubrication free system through use of high quality bearings



## IOT-BASED VIBRATION ANALYZER

Move from preventive to predictive maintenance through our IoT-based Tri-Axial vibration, temperature, and Acoustic Analyser.

Our product delivers the following benefits to our clients:

- Get targeted reports with call-to-action for each equipment through our state-of-the-art vibration analysis architecture
- Real-time visibility of all equipment
- Optimize manpower by reducing repeat manual work with digitization
- Our systems are configured to send alarms to only relevant stakeholders for action
- RLA Analysis - our system intelligently tracks increasing vibration levels to also share the remaining life with users

## OUR SERVICES

- Electrical Safety Audit & Thermography
- Electrical PCC and MCC Panel Testing
- Equipment Balancing & NDT Testing

## FOOTPRINT REDUCTION

Reduction in  
Water  
Consumption

**1256**  
kL/day

equivalent to the  
consumption of 1800+  
households everyday

Reduction in  
Energy  
Consumption

**51.35**  
MW/day

equivalent to the  
consumption of 7300+  
households everyday

## OUR MAJOR CLIENTS



OUR VISION - FROM CUSTOMER SATISFACTION TO CUSTOMER DELIGHT