



Viuna
HVAC

hybrid
Cooling towers



Closed Circuits Hybrid Cooling Towers

Closed Circuit Hybrid Cooling Towers offer highly efficient cooling solutions, by completely isolating the process cooling fluid from the atmosphere. Isolating the process cooling fluid prevents airborne contaminants from entering the system, protecting the quality of the fluid and reducing system maintenance due to fouling. Reduced fouling ensures full thermal performance throughout the life of the product, and minimizes system operating costs.

Closed circuit hybrid cooling towers are used in the following applications:

- HVAC, Absorption Chillers, Water source heat pumps
- Industrial processes,
- Air compressors,
- Weld machine cooling,
- Mold water cooling,
- Power plant auxiliary cooling,
- Furnace cooling,
- Transformer cooling,
- Closed condenser loops,
- Critical systems,
- Systems requiring plume elimination.

Advantages of Hybrid Cooling Towers:

▪ LOWEST OPERATING COST:

1. Clean process fluids sustain the performance of high efficiency components
2. Save on energy consumption by operating in "Free Cooling Mode" during the winter

▪ LOWEST MAINTENANCE COSTS:

1. Reduced or eliminates cleaning the heat exchanger
2. Extends the life of the equipment

▪ OPERATIONAL FLEXIBILITY:

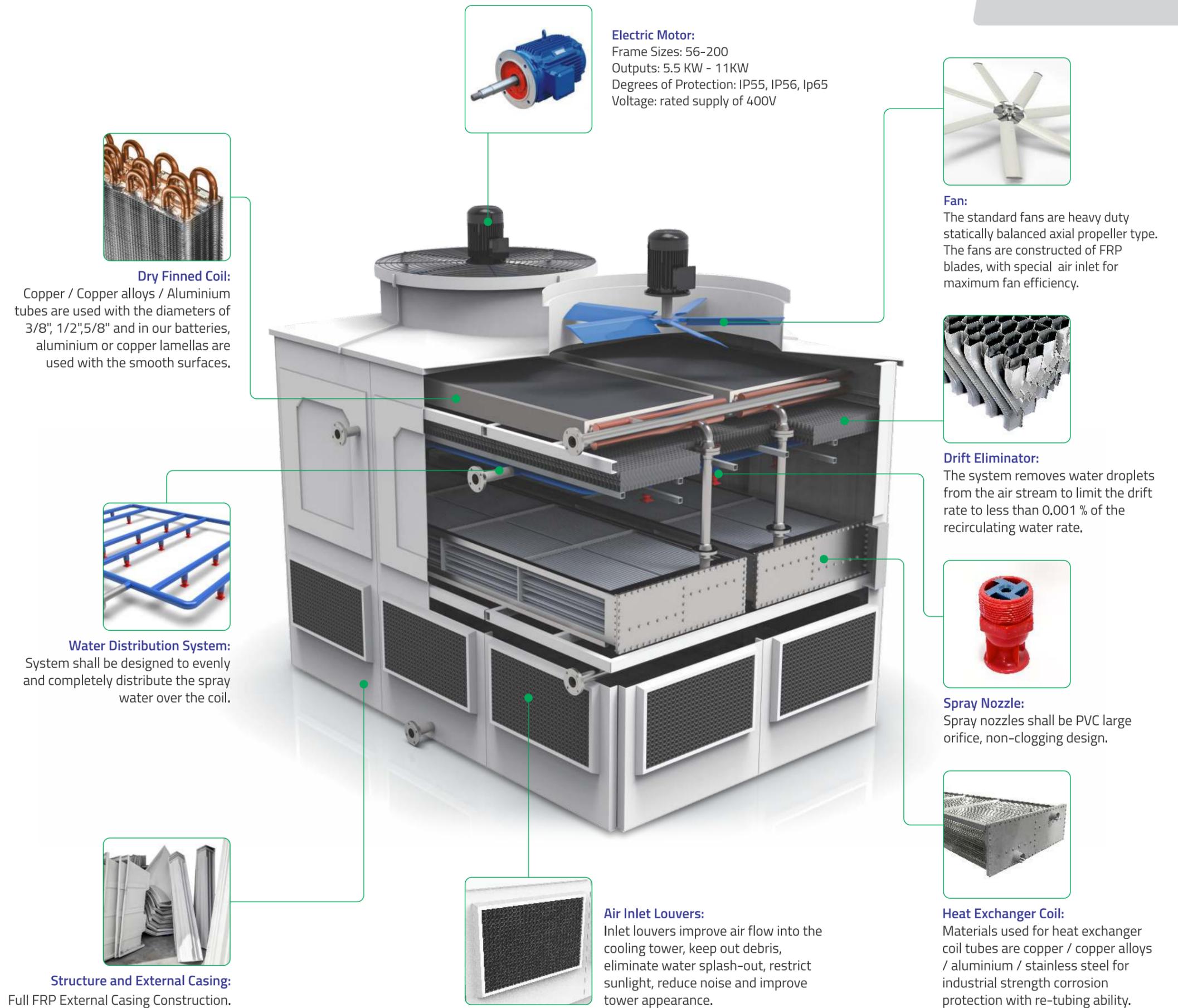
1. Free cooling without an intermediate heat exchanger
2. Dry operation during winter months
3. Variable speed pumping to conserve energy without the potential of scaling the unit

▪ LOWEST WATER COSTS:

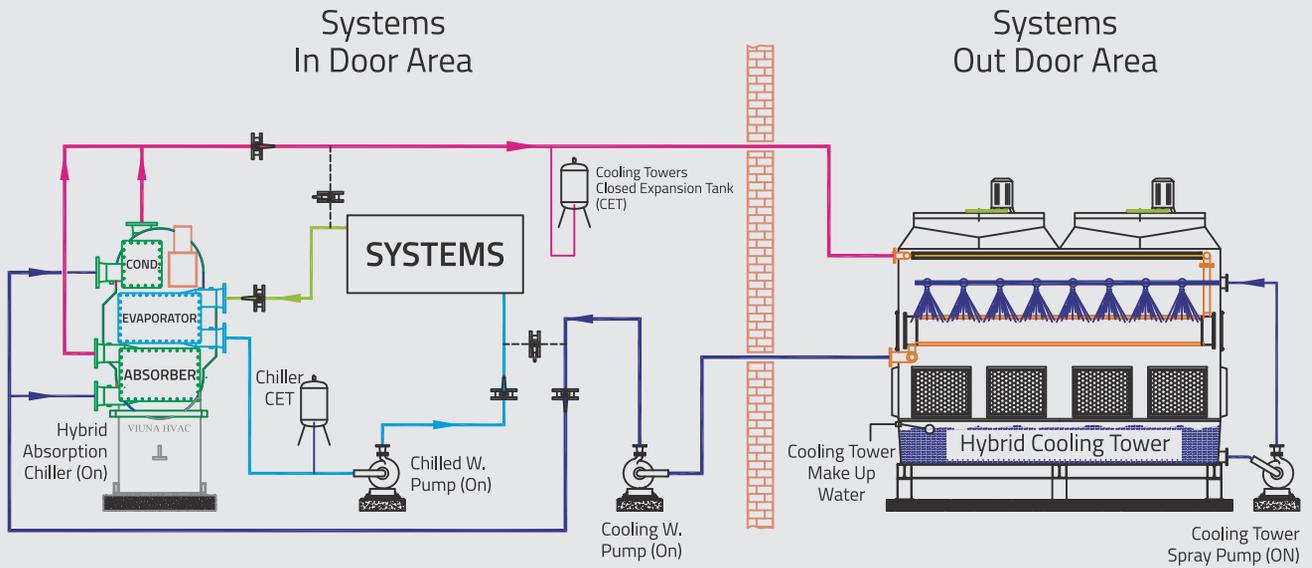
1. Lower volume of recirculating water reduce water treatment cost
2. Dry operation and adiabatic modes reduce or eliminate water consumption

▪ MINIMAL INSTALLATION COSTS:

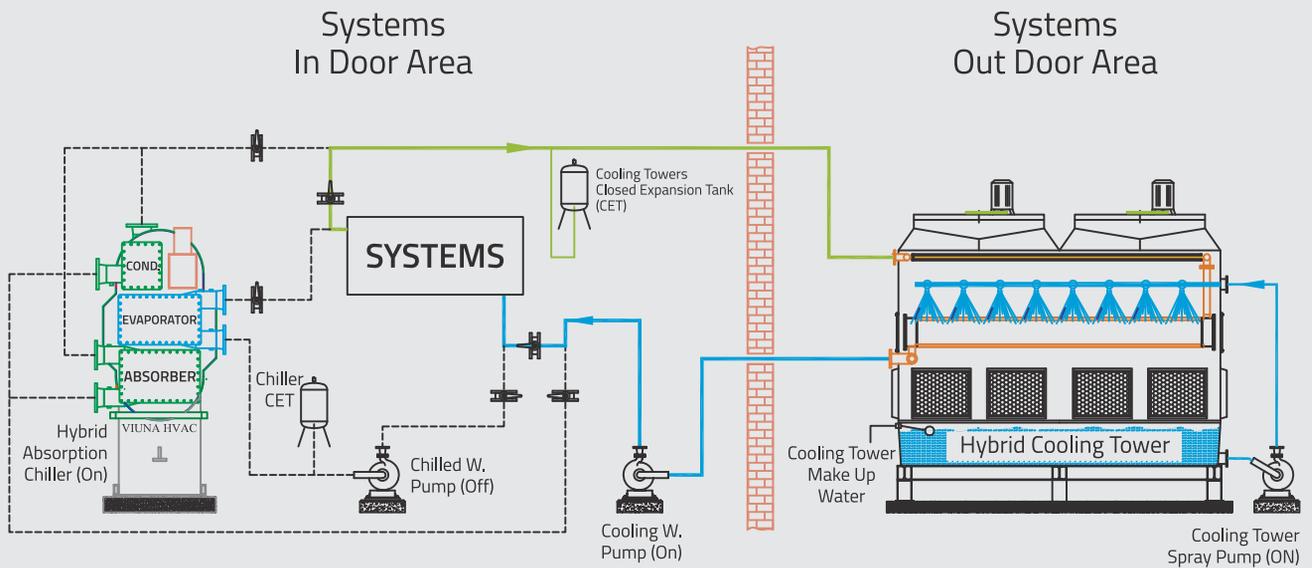
Compact single piece of equipment conserves space replaces three components (cooling tower, heat exchanger, and pump arrangement)



Cooling the Systems @ Summer Condition



Cooling the Systems @ Winter and Low Seasons Condition



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