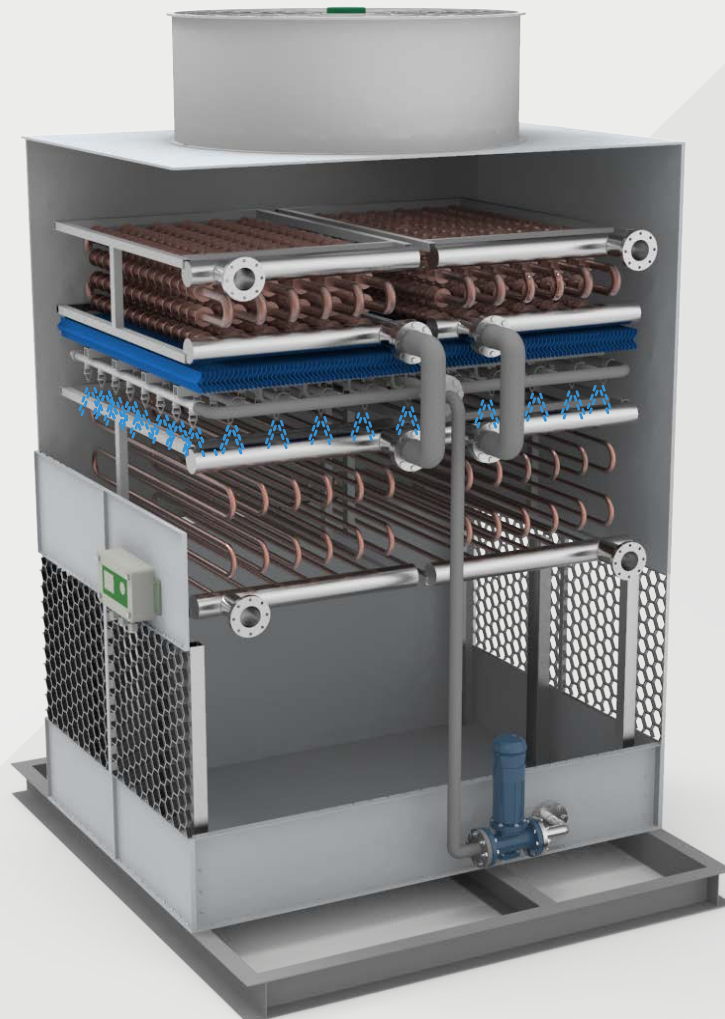




FEIYU Cooling

HYBRID WET DRY COOLING TOWER



Hybrid Wet Dry Cooling Tower

Hybrid wet dry cooling tower is a cooling device that takes finned tubes and smooth coils as the heat transfer to cool the process fluid. It has 2 running modes: dry mode and wet-dry mode. It adopts induced-draft axial fan to discharge the hot and humid air in the tower. It is suitable for a wide range of outdoor applications. You may choose a running mode based on your actual application environments to achieve maximum water saving.

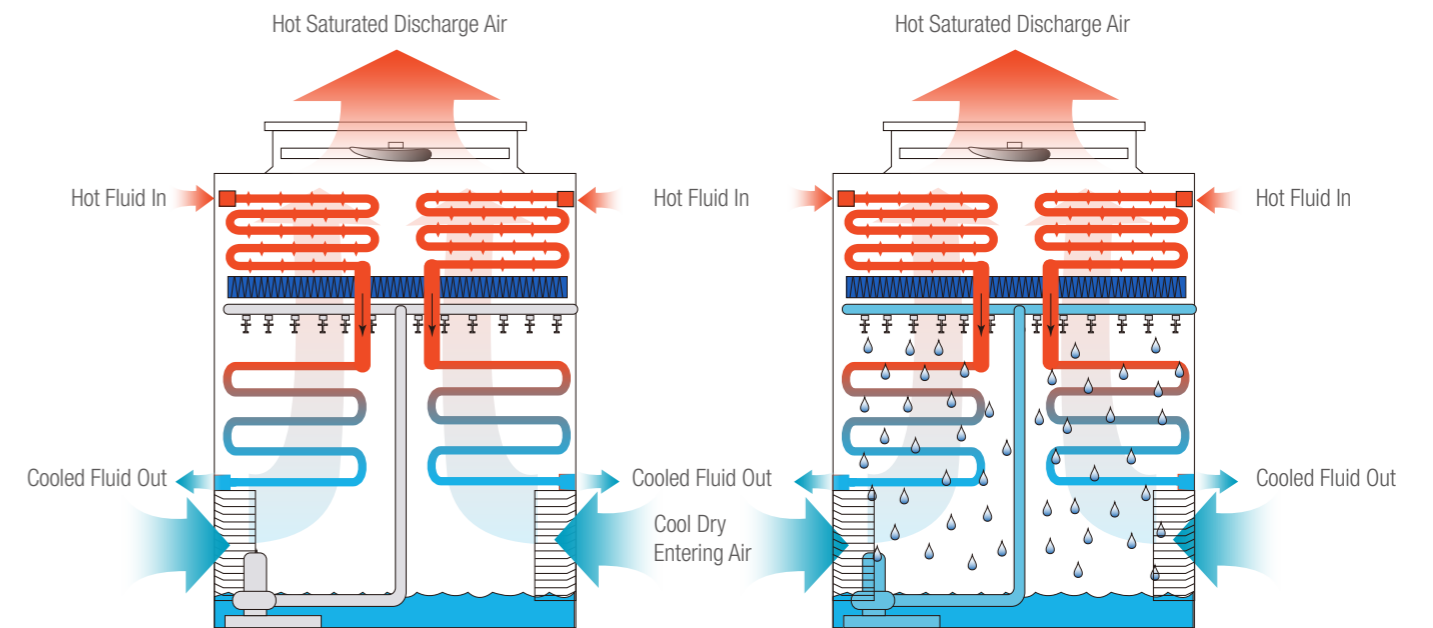
Hybrid wet dry cooling tower can be equipped with sophisticated intelligent control systems and factory-installed water treatment devices to provide final solutions for HVAC and large-scale process processing fields.



- ✓ There are 2 operating modes: dry mode and wet-dry mode.
- ✓ Dry finned tube improves the heat transfer capacity and has a significantly increased dry bulb switchover temperature.
- ✓ Dry coils are connected in series with smooth coils. As a result, water consumption is significantly reduced even in wet-dry mode.
- ✓ In wet-dry mode, plume is significantly reduced. While, in dry mode, plume is totally eliminated.
- ✓ In wet-dry mode, the cooling capacity of the tower is significantly improved.

How Does It Work?

First, set the cooling temperature point required by the hybrid wet dry cooling tower. When the temperature set point is met, the unit starts to run in dry mode. While in dry mode, no water is used, thus plume is eliminated. When the temperature set point cannot be met, the unit starts to operate in wet-dry mode. This mode of operation minimizes the amount of water used while still maintaining the cooling capacity required.



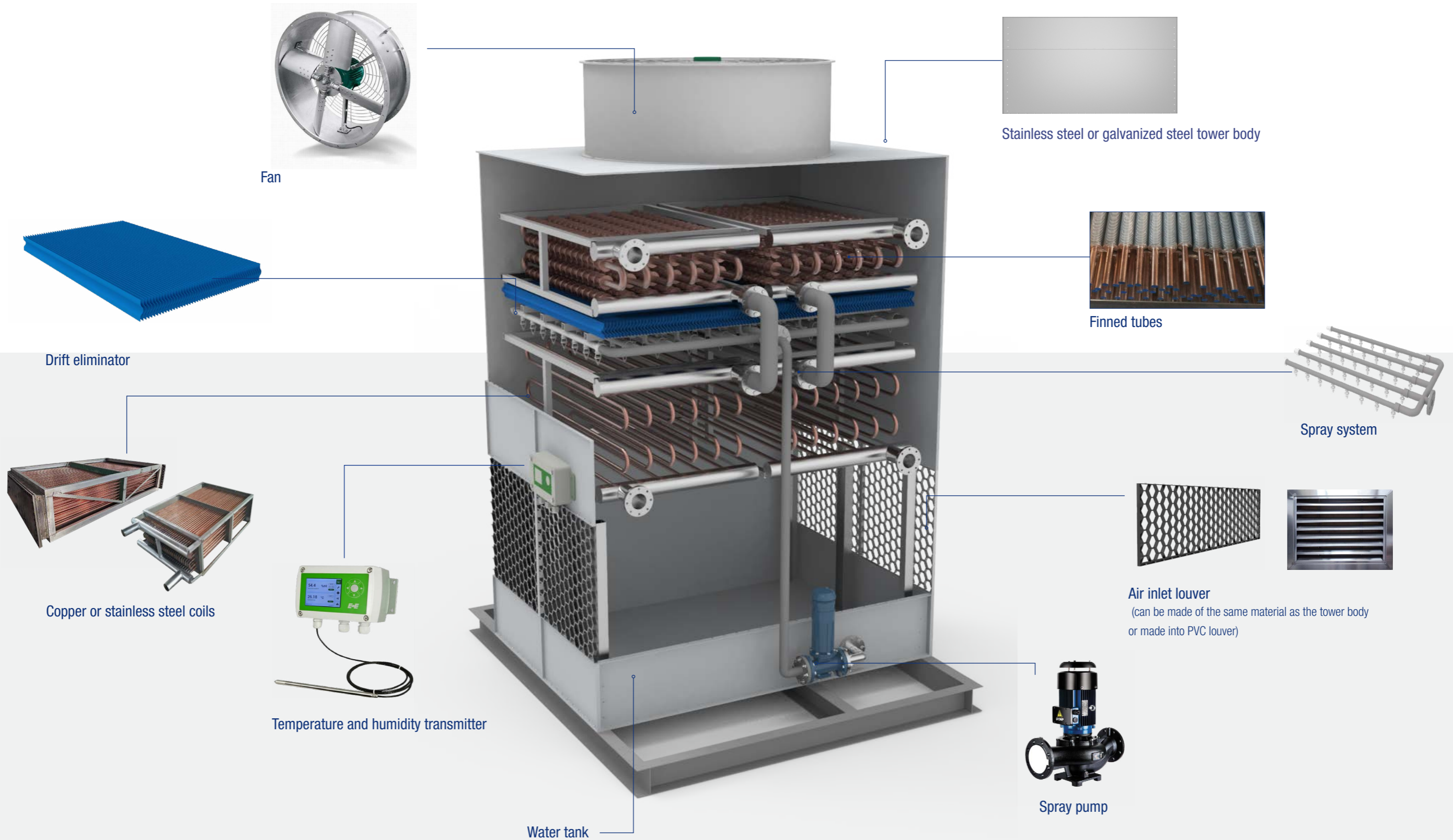
Dry Mode

In dry mode, the hot process fluid enters the dry finned tubes from the inlet of dry finned tubes, flows out from the outlet of the finned tubes, and then flows into the smooth coils from the inlet of smooth coils. At the same time, the fan is turned on, and the spray pump is turned off. The axial fan draws the air upward through the air inlet louver. When the air flows through the coil and undertakes heat transfer, a portion of the heat is taken away and is dissipated to the atmosphere. The cooled process fluid flows out of the smooth coil outlet and returns to the internal circuit.

Wet-Dry Mode

In this mode, the hot process fluid enters the dry finned tubes from the inlet of dry finned tubes, flows out from the outlet of the finned tubes, and then flows into the smooth coils from the inlet of smooth coils. At the same time, the spray system is on and the fan is turned on as well. The heat of the process fluid undertakes heat transfer through via tube walls and the heat is transferred to the spray water flowing through the outside of the tube. The process water becomes cold and is then discharged from the smooth coil outlet for internal circulation. Driven by the fan, the air outside the unit enters from the air inlet and flows upward through the coil, in the opposite direction to the water. A small portion of the water evaporates and flows through the drift eliminator, excess moisture is collected into the water tank and hot, humid air is dispatched into the atmosphere from the top of the closed circuit cooling tower. The rest of the water falls into the water tank at the bottom and is recycled by the pump into the spray system, and then is sprayed onto the coil.

Structure & Components





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