



**CLOSED CIRCUIT
WATER COOLING
TOWER**



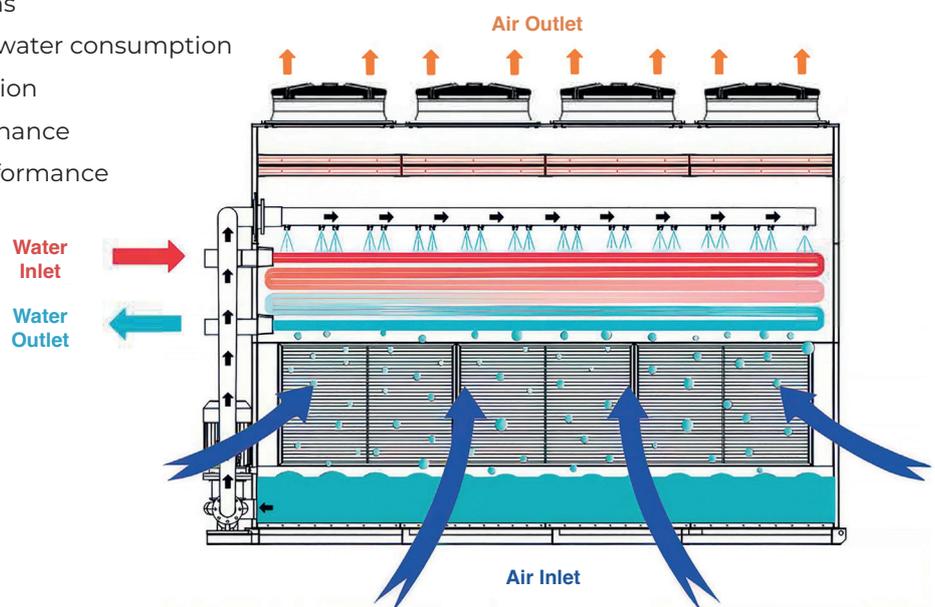
What is closed circuit water cooling tower?

In the closed circuit, process water and spray water circulate in separate circuits. While the hot process water cools down in the coil, energy is discharged by evaporation of the spray water in the outer circuit. Thus, water consumption is reduced and corrosion risk is minimised.



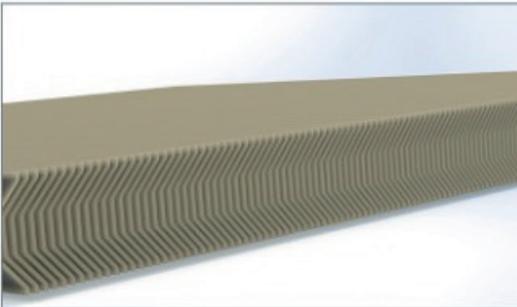
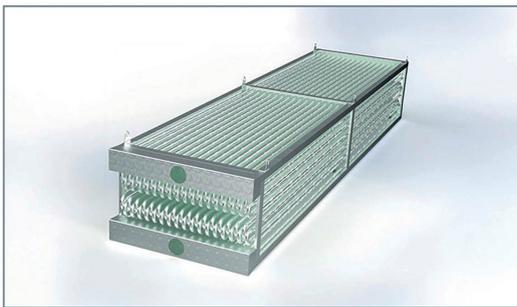
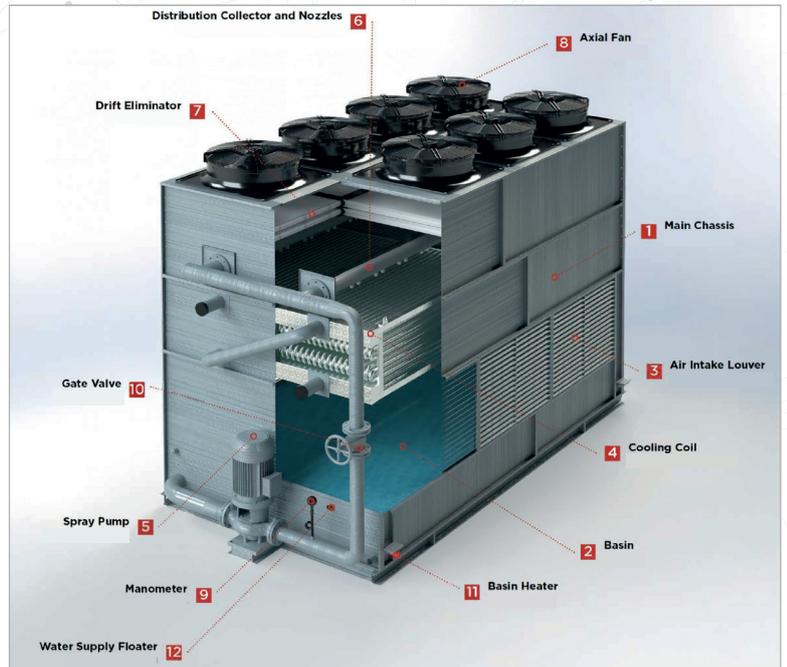
Key Features

- Circulation of process water and spray water in separate circuits with closed circuit design
- Disposal of the thermal load to the atmosphere by evaporation of the spray water, high cooling efficiency
- Optimised airflow with axial fans
- Design focussed on minimum water consumption
- Low risk of corrosion and pollution
- Ease of installation and maintenance
- Uninterrupted and reliable performance in industrial plants



Advantages

- Low energy consumption, high operating efficiency
- Eco-friendly design, low carbon footprint
- Low maintenance and service costs
- Minimised water loss thanks to highly efficient drip traps
- Operation in different capacities and conditions with steel and copper coil options
- Clean water circulation with closed circuit water system



Main Components

- **High strength main chassis:** Long lasting and durable with its robust structure.
- **Galvanised sheet metal basin:** Facilitates water accumulation and allows the spray pump to absorb water easily.
- **Cooling coil:** Effectively cools the process water with its high heat transfer capacity.
- **Spray pump, distributor collector and nozzles:** Provides efficient cooling by spraying water homogeneously and evenly on the coil.
- **Drift eliminator:** Minimises water loss and is an important part of environmentally friendly design.
- **Axial fan:** Provides optimised air flow, operates silently and energy efficient.
- **Manometer and gate valve:** Facilitates control and adjustment of the system.
- **Basin heater:** Provides protection against freezing and improves system performance.
- **Water supply floater:** Provides the optimum water level continuously and automatically.