



ADVANCE COOL TECHNOLOGY CO.,LTD.

THE CHILLER EXPERT

Diagram Closed Cooling Tower



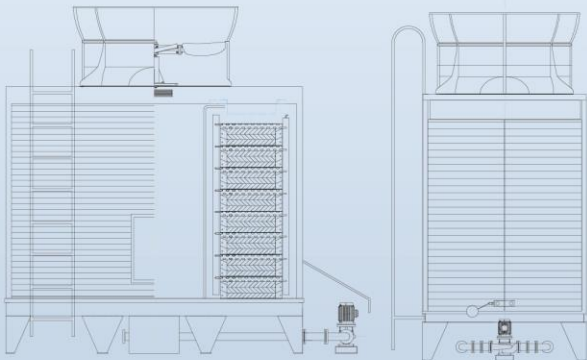
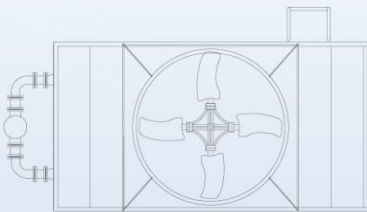
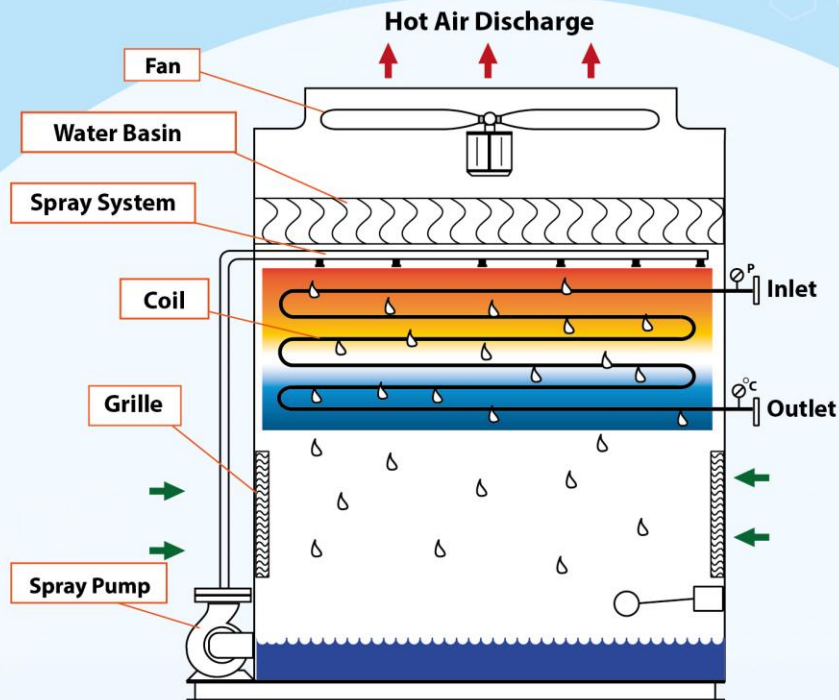
Machine Model: **CCT**

Machine System: **Close Loop Cooling Tower**



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CLOSED COOLING TOWER SERIES "CCT"

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GENERAL DESIGN	Application	Close loop circulating system
	Coil inner liquid type	★ Pure water/Glycol or other anti-frozen
	Inlet coil liquid temperature	37 C
	Outlet coil liquid temperature	32 C
	Wet Bulb Temperature	28 C
MECHANICAL PART	Fan type	Axial
	Fan material	Aluminium Alloy
	Fan Speed	480
	Motor power	380V/3Φ/50Hz
	Motor water proof/Insulation class	IP55
	Motor protection class	F LEVEL
SPRAY WATER SYSTEM	Spray cooling water quality	Tap water
	Nozzel specification	Large-caliber,Solid cone water distribution
	Nozzel Material	ABS
	filler specifics	thermal transfer ,elimmlate , Low air
	Filler material	Flame retardant PVC
	Water collection device (coil section)	Fully enclosed with water collection device
	Spray pump water shelter	SS304
	Spray pump power	380V/3Φ/50Hz
	Spraypump water proof/Insulation class	IP55/ F Level
MATERIAL	Coil Material	Stainless steel 304
	Coil Specifics	tube dia.19mm, tube wall thickness 1.0mm
	Coil Support	Stainless steel 304
	Wall Panel	Aluminizing Plated Galvanised steel
	Connecting bolts	Galvanized steel

Diagram Closed Cooling Tower

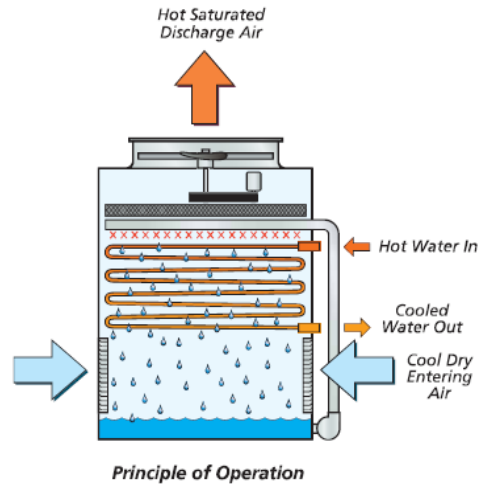
Closed Circuit Cooling Tower Model CCT

ACT, Closed cooling tower equipped with Alu Zinc Casing / stainless Steel Casing, heat exchanger coil, exhaust system, sprinkler system, water system, composed sump replenishment system.



1. FAN

The main role of the fan to discharge the saturated hot wet air of the cooling tower, frame is made of stainless steel mesh, beautiful and durable characteristics. The blade is made of aluminum alloy, low Noise, high transmission efficiency. Fan Blades and Motor are in line with the principle of aerodynamics, and make full use of the air flow field theory, reducing the flow resistance, the air outlet kinetic energy loss is reduced by 34%, to help improve the fan flow and fan efficiency, reduce power consumption amount.



2. CASING

Closed cooling tower are available in Both Alu Zinc Material and/or Stainless steel 304 Material. We use in chemical companies run shell used the higher the degree of corrosion-resistant galvanized production, due to the long-term acid mist corrosion. Alu Zinc (Galvalume) shell finished the overall spray treatment. The galvalume steel plates is an important alloy material often applied to everyday life.



3.COOLING COIL

The cooling coil is the key component of the closed cooling tower, internal through a cooling medium, to achieve the cooling requirements of the external wind and water spray. Advance Cool Technology Co., Ltd. We design cooling coil with the following technical characteristics:

A. Cooling coil 304 stainless steel tube production, a single module is composed of by 10 groups serpentine heat transfer tubes. Each set of heat transfer tube formation of wind, water, reverse the direction of flow pipe of the water side of outside air flow direction. Each set of heat transfer tubes tube arrangement considering slope, slope direction and the direction of flow, water emissions in order to facilitate the tube.

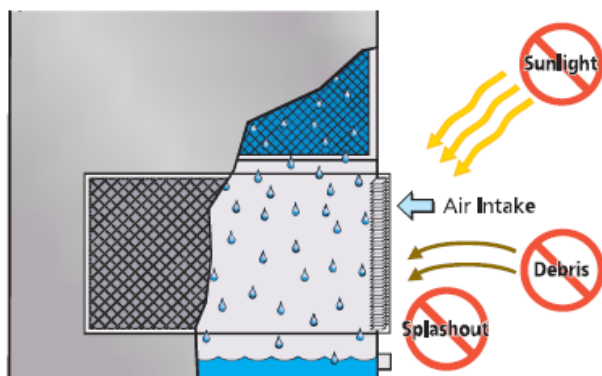
B. The cooling coil supporting frame is made of 304 stainless steel welded. Column tube support plate made of 10mm high quality PVC board. Since the hardness of the PVC plate is less than the hardness of the stainless steel tube, stainless steel heat exchanger column the tube vibration occurs, without damage.

C. each group of heat transfer tubes through a pressure test, when the test carried out in water 1.8MPa air pressure experiments, holding pressure 24 hours, in order to ensure that no leakage



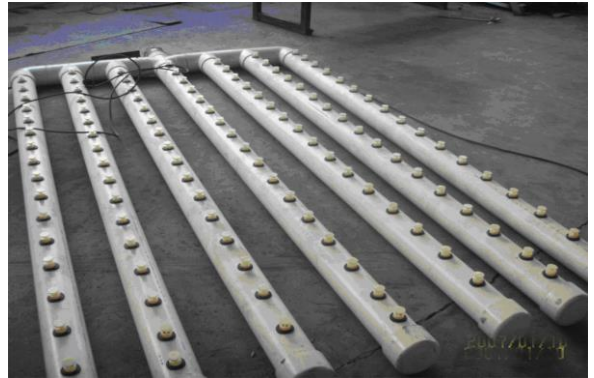
4.AIR INLET GRILL

Advance Cool Technology Co., Ltd., we design closed cooling tower using Windshield grill has a large amount of air intake into the wind and drag characteristics. Reduce fan energy consumption, and minimizing water splashing, this design is protecting the sun light to the spray water helps minimizing biocide. Hence better water quality of spraying water The inlet grill frame can be galvanized steel or stainless steel plate. Easy for removing for cleaning and maintenance.



5. SPRAY SYSTEM

The spraying system consist of pray pumps, connecting pipe, sprinkler pipe, sprinkler prime. When the temperature exceeds the set temperature, the system control automatically open the sprinkler system, to ensure the temperature of the cooling to meet the requirements. Low-lift pumps spray pump: high flow, low water pressure is equipped in the design of low friction internal piping , hence longer lifte time and less damage to spray heads: spray head we use injection molded ABS material connected equipped with a rubber sealing. The high strength and long service life, good water droplets, uniform spray water distribution area, the cooling effect.



6.ELIMINATORS

Eliminator' main role is to spray water in the hot coil re-circulating for re-use; We use UPVC efficient pipelined water collection device designed with suitable airflow direction to ensure efficient ventilation the same time. Moreover, so that the spray of water Drift loss of less than 0.01%, hence achieving excellent the water-saving performance.



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