



江苏·中冷

工业型冷却塔

Industrial cooling tower

- 钢结构冷却塔
Steel structure cooling tower
- 钢混结构冷却塔
Reinforced concrete cooling tower
- 喷雾式冷却塔
Spray type cooling tower
- 中空冷却塔
Hollow cooling tower
- 密闭式冷却塔
Closed cooling tower
- 圆型逆流式冷却塔
Round reverse current cooling tower

环保·专业·节能 Environmental-friendly·professional·energy-saving

江苏中冷冷却系统有限责任公司
Jiangsu Zhong Leng Cooling System Co., Ltd



江苏中冷冷却系统有限责任公司
jiangsu Zhong Leng Cooling System Co., Ltd



➔ 企业简介

COMPANY PROFILE

江苏中冷冷却系统有限责任公司位于风景秀丽的国家AAAA级旅游度假区——天目湖畔。公司集产品开发、设计、制造、维修、安装、调试、售后服务于一体的冷却塔及水处理设备的专业化企业。

公司专业生产方形横流、逆流、喷雾、鼓风、水轮机、砼结构冷却塔广泛用于热电、化工、纺织、电子冶金、制药、卷烟以及科研单位、宾馆、商场、影剧院、民用建筑和空调制冷循环水冷却工程中。

企业在发展过程中不断创新设计理念、优化产品结构、改进生产工艺、提高服务质量。以精良的产品，周到的服务博得国内外用户青睐。产品畅销全国各地，并远销国外。

➔➔ 节约每滴水！节约每度电！

选择最适合的！中冷是您最佳的选择！



Jiangsu Zhongleng Cooling System Co., Ltd. is located on the bank of Tianmu River – national grade AAAA scenic tourist resort with beautiful scenery. The company belongs to specialized enterprises of cooling tower and water treatment equipment, which integrates product development, design, manufacture, maintenance, installation, commissioning and after-sales services.

Our company specializes in producing square cross-flow, countercurrent, spray, blast, turbine, and concrete structure cooling towers which are widely used in thermoelectricity, chemical, textile, electronics metallurgy, pharmaceuticals, cigarettes, and research institutes, hotels, shopping malls, theaters, civil buildings and air conditioning and refrigeration circulating water cooling projects.

Our enterprise continuously inaugurates design concept, optimizes product structure, improves production process, and improves the service quality continuously in the development process. We have obtained good graces from domestic and foreign users with excellent products and good service. Our products are sold throughout the country and abroad.

Save every drop of water! Saves per kWh of electricity!

Choose the most suitable product! Zhongleng is your best choice!

目录 Catalog

工业型冷却塔系列 Industrial Cooling Tower Series

- 企业荣誉 01
Enterprise Honor
- 我们的产品 02
Our product
- 我们专业的设计选型软件 03
Our professional design model selection software
- 主要部件说明 04-06
Description of main components
- CLG-大型钢结构逆流式冷却塔 07
CLG-large steel structure countercurrent cooling tower
- CLH-钢混(砼)结构逆流式冷却塔 08
CLH-reinforced concrete (concrete) structure countercurrent cooling tower
- CLC-喷雾式冷却塔 09-12
CLC-spray cooling tower
- CLD-中空喷雾式冷却塔 13-14
CLD-hollow spray cooling tower
- CLM-密闭式冷却塔(蒸发式) 15-17
CLM- closed cooling tower (evaporative type)
- CLN-圆形逆流式冷却塔 18-19
CLN-Round reverse current cooling tower



企业资质

Enterprise Qualification



我们的产品 Our products



产品实景

Real Products



典型用户

	宝钛股份		中国人民解放军450
	江阴力士化工		大明宫家居城
	海隆石油工业集团有限公司		江苏银珠化工集团有限公司
	奇瑞汽车		乌鲁木齐医学院
	中国石油		湖北南星化工
	柳州钢铁股份有限公司		中财水泥湘潭有限公司
	中国重汽总部		青岛软控重工有限公司
	中国航空工业集团		无锡利特尔彩印
	新奥能源控股有限公司		卓越纳米新材料
	开元商城		陕西龙门钢铁(集团)有限责任公司
	江淮汽车		中国建筑第五工程局有限公司

P 我们专业的设计选型软件

Professional for our design model selection software

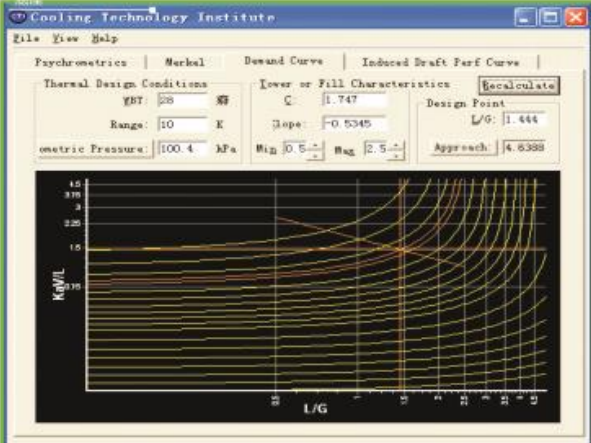
软件展示

Software show

专业的设计工具
Professional design tools

【专业设计 选型软件】

Professional Design and Selection Software



专业的设计平台
Professional design platform



设计参数	测试数据	设计参数	测试结果
进水量 1000 m³/h	进水量 1000 m³/h	进水量 1000 m³/h	进水量 1000 m³/h
进塔水温 30 °C	进塔水温 30 °C	进塔水温 30 °C	进塔水温 30 °C
进塔空气湿球温度 27.5 °C	进塔空气湿球温度 27.5 °C	进塔空气湿球温度 27.5 °C	进塔空气湿球温度 27.5 °C
进塔空气干球温度 30 °C	进塔空气干球温度 30 °C	进塔空气干球温度 30 °C	进塔空气干球温度 30 °C
进塔空气压力 101.3 kPa	进塔空气压力 101.3 kPa	进塔空气压力 101.3 kPa	进塔空气压力 101.3 kPa
进塔空气密度 1.205 kg/m³	进塔空气密度 1.205 kg/m³	进塔空气密度 1.205 kg/m³	进塔空气密度 1.205 kg/m³
进塔空气焓 50.1 kJ/kg	进塔空气焓 50.1 kJ/kg	进塔空气焓 50.1 kJ/kg	进塔空气焓 50.1 kJ/kg
进塔空气含湿量 10.5 g/kg	进塔空气含湿量 10.5 g/kg	进塔空气含湿量 10.5 g/kg	进塔空气含湿量 10.5 g/kg
进塔空气露点 20.5 °C	进塔空气露点 20.5 °C	进塔空气露点 20.5 °C	进塔空气露点 20.5 °C
进塔空气相对湿度 65.5%	进塔空气相对湿度 65.5%	进塔空气相对湿度 65.5%	进塔空气相对湿度 65.5%
进塔空气比容 0.845 m³/kg	进塔空气比容 0.845 m³/kg	进塔空气比容 0.845 m³/kg	进塔空气比容 0.845 m³/kg
进塔空气熵 1.915 kJ/kg·K	进塔空气熵 1.915 kJ/kg·K	进塔空气熵 1.915 kJ/kg·K	进塔空气熵 1.915 kJ/kg·K
进塔空气比热 1.005 kJ/kg·K	进塔空气比热 1.005 kJ/kg·K	进塔空气比热 1.005 kJ/kg·K	进塔空气比热 1.005 kJ/kg·K
进塔空气导热系数 0.026 W/m·K	进塔空气导热系数 0.026 W/m·K	进塔空气导热系数 0.026 W/m·K	进塔空气导热系数 0.026 W/m·K
进塔空气动力粘度 1.85e-5 Pa·s	进塔空气动力粘度 1.85e-5 Pa·s	进塔空气动力粘度 1.85e-5 Pa·s	进塔空气动力粘度 1.85e-5 Pa·s
进塔空气运动粘度 1.55e-5 m²/s	进塔空气运动粘度 1.55e-5 m²/s	进塔空气运动粘度 1.55e-5 m²/s	进塔空气运动粘度 1.55e-5 m²/s
进塔空气普朗特数 0.71	进塔空气普朗特数 0.71	进塔空气普朗特数 0.71	进塔空气普朗特数 0.71
进塔空气雷诺数 1.2e5	进塔空气雷诺数 1.2e5	进塔空气雷诺数 1.2e5	进塔空气雷诺数 1.2e5
进塔空气努塞尔特数 0.01	进塔空气努塞尔特数 0.01	进塔空气努塞尔特数 0.01	进塔空气努塞尔特数 0.01
进塔空气摩擦系数 0.018	进塔空气摩擦系数 0.018	进塔空气摩擦系数 0.018	进塔空气摩擦系数 0.018
进塔空气传热系数 10.5 W/m²·K	进塔空气传热系数 10.5 W/m²·K	进塔空气传热系数 10.5 W/m²·K	进塔空气传热系数 10.5 W/m²·K
进塔空气对流换热系数 10.5 W/m²·K	进塔空气对流换热系数 10.5 W/m²·K	进塔空气对流换热系数 10.5 W/m²·K	进塔空气对流换热系数 10.5 W/m²·K
进塔空气辐射换热系数 5.7 W/m²·K	进塔空气辐射换热系数 5.7 W/m²·K	进塔空气辐射换热系数 5.7 W/m²·K	进塔空气辐射换热系数 5.7 W/m²·K
进塔空气总换热系数 16.2 W/m²·K	进塔空气总换热系数 16.2 W/m²·K	进塔空气总换热系数 16.2 W/m²·K	进塔空气总换热系数 16.2 W/m²·K
进塔空气当量直径 0.05 m	进塔空气当量直径 0.05 m	进塔空气当量直径 0.05 m	进塔空气当量直径 0.05 m
进塔空气当量长度 0.5 m	进塔空气当量长度 0.5 m	进塔空气当量长度 0.5 m	进塔空气当量长度 0.5 m
进塔空气当量面积 0.00785 m²	进塔空气当量面积 0.00785 m²	进塔空气当量面积 0.00785 m²	进塔空气当量面积 0.00785 m²
进塔空气当量周长 0.157 m	进塔空气当量周长 0.157 m	进塔空气当量周长 0.157 m	进塔空气当量周长 0.157 m
进塔空气当量体积 0.00039 m³	进塔空气当量体积 0.00039 m³	进塔空气当量体积 0.00039 m³	进塔空气当量体积 0.00039 m³
进塔空气当量质量 0.00047 kg	进塔空气当量质量 0.00047 kg	进塔空气当量质量 0.00047 kg	进塔空气当量质量 0.00047 kg
进塔空气当量重量 0.0047 N	进塔空气当量重量 0.0047 N	进塔空气当量重量 0.0047 N	进塔空气当量重量 0.0047 N
进塔空气当量力矩 0.000235 N·m	进塔空气当量力矩 0.000235 N·m	进塔空气当量力矩 0.000235 N·m	进塔空气当量力矩 0.000235 N·m
进塔空气当量力矩平方 5.52e-5 N²·m²	进塔空气当量力矩平方 5.52e-5 N²·m²	进塔空气当量力矩平方 5.52e-5 N²·m²	进塔空气当量力矩平方 5.52e-5 N²·m²
进塔空气当量力矩立方 1.27e-6 N³·m³	进塔空气当量力矩立方 1.27e-6 N³·m³	进塔空气当量力矩立方 1.27e-6 N³·m³	进塔空气当量力矩立方 1.27e-6 N³·m³
进塔空气当量力矩四次方 3.27e-8 N⁴·m⁴	进塔空气当量力矩四次方 3.27e-8 N⁴·m⁴	进塔空气当量力矩四次方 3.27e-8 N⁴·m⁴	进塔空气当量力矩四次方 3.27e-8 N⁴·m⁴
进塔空气当量力矩五次方 8.77e-10 N⁵·m⁵	进塔空气当量力矩五次方 8.77e-10 N⁵·m⁵	进塔空气当量力矩五次方 8.77e-10 N⁵·m⁵	进塔空气当量力矩五次方 8.77e-10 N⁵·m⁵
进塔空气当量力矩六次方 2.31e-11 N⁶·m⁶	进塔空气当量力矩六次方 2.31e-11 N⁶·m⁶	进塔空气当量力矩六次方 2.31e-11 N⁶·m⁶	进塔空气当量力矩六次方 2.31e-11 N⁶·m⁶
进塔空气当量力矩七次方 6.03e-13 N⁷·m⁷	进塔空气当量力矩七次方 6.03e-13 N⁷·m⁷	进塔空气当量力矩七次方 6.03e-13 N⁷·m⁷	进塔空气当量力矩七次方 6.03e-13 N⁷·m⁷
进塔空气当量力矩八次方 1.57e-14 N⁸·m⁸	进塔空气当量力矩八次方 1.57e-14 N⁸·m⁸	进塔空气当量力矩八次方 1.57e-14 N⁸·m⁸	进塔空气当量力矩八次方 1.57e-14 N⁸·m⁸
进塔空气当量力矩九次方 4.05e-16 N⁹·m⁹	进塔空气当量力矩九次方 4.05e-16 N⁹·m⁹	进塔空气当量力矩九次方 4.05e-16 N⁹·m⁹	进塔空气当量力矩九次方 4.05e-16 N⁹·m⁹
进塔空气当量力矩十次方 1.05e-17 N¹⁰·m¹⁰	进塔空气当量力矩十次方 1.05e-17 N¹⁰·m¹⁰	进塔空气当量力矩十次方 1.05e-17 N¹⁰·m¹⁰	进塔空气当量力矩十次方 1.05e-17 N¹⁰·m¹⁰
进塔空气当量力矩十一次方 2.69e-19 N¹¹·m¹¹	进塔空气当量力矩十一次方 2.69e-19 N¹¹·m¹¹	进塔空气当量力矩十一次方 2.69e-19 N¹¹·m¹¹	进塔空气当量力矩十一次方 2.69e-19 N¹¹·m¹¹
进塔空气当量力矩十二次方 6.88e-21 N¹²·m¹²	进塔空气当量力矩十二次方 6.88e-21 N¹²·m¹²	进塔空气当量力矩十二次方 6.88e-21 N¹²·m¹²	进塔空气当量力矩十二次方 6.88e-21 N¹²·m¹²
进塔空气当量力矩十三次方 1.77e-22 N¹³·m¹³	进塔空气当量力矩十三次方 1.77e-22 N¹³·m¹³	进塔空气当量力矩十三次方 1.77e-22 N¹³·m¹³	进塔空气当量力矩十三次方 1.77e-22 N¹³·m¹³
进塔空气当量力矩十四次方 4.54e-24 N¹⁴·m¹⁴	进塔空气当量力矩十四次方 4.54e-24 N¹⁴·m¹⁴	进塔空气当量力矩十四次方 4.54e-24 N¹⁴·m¹⁴	进塔空气当量力矩十四次方 4.54e-24 N¹⁴·m¹⁴
进塔空气当量力矩十五次方 1.17e-25 N¹⁵·m¹⁵	进塔空气当量力矩十五次方 1.17e-25 N¹⁵·m¹⁵	进塔空气当量力矩十五次方 1.17e-25 N¹⁵·m¹⁵	进塔空气当量力矩十五次方 1.17e-25 N¹⁵·m¹⁵
进塔空气当量力矩十六次方 3.01e-27 N¹⁶·m¹⁶	进塔空气当量力矩十六次方 3.01e-27 N¹⁶·m¹⁶	进塔空气当量力矩十六次方 3.01e-27 N¹⁶·m¹⁶	进塔空气当量力矩十六次方 3.01e-27 N¹⁶·m¹⁶
进塔空气当量力矩十七次方 7.71e-29 N¹⁷·m¹⁷	进塔空气当量力矩十七次方 7.71e-29 N¹⁷·m¹⁷	进塔空气当量力矩十七次方 7.71e-29 N¹⁷·m¹⁷	进塔空气当量力矩十七次方 7.71e-29 N¹⁷·m¹⁷
进塔空气当量力矩十八次方 1.99e-30 N¹⁸·m¹⁸	进塔空气当量力矩十八次方 1.99e-30 N¹⁸·m¹⁸	进塔空气当量力矩十八次方 1.99e-30 N¹⁸·m¹⁸	进塔空气当量力矩十八次方 1.99e-30 N¹⁸·m¹⁸
进塔空气当量力矩十九次方 5.11e-32 N¹⁹·m¹⁹	进塔空气当量力矩十九次方 5.11e-32 N¹⁹·m¹⁹	进塔空气当量力矩十九次方 5.11e-32 N¹⁹·m¹⁹	进塔空气当量力矩十九次方 5.11e-32 N¹⁹·m¹⁹
进塔空气当量力矩二十次方 1.31e-33 N²⁰·m²⁰	进塔空气当量力矩二十次方 1.31e-33 N²⁰·m²⁰	进塔空气当量力矩二十次方 1.31e-33 N²⁰·m²⁰	进塔空气当量力矩二十次方 1.31e-33 N²⁰·m²⁰



Design Properties

Property	Value	Units
Barometric Pressure	101.325	kPa
Altitude above sea level	0	m
Dry Bulb Temperature	30.0	°C
Wet Bulb Temperature	27.5	°C
Enthalpy	50.1	kJ/kg dry air
Dew Point	20.5	°C
Relative Humidity	65.5	%
Density	1.205	kg/m³
Specific Volume	0.845	m³/kg dry air
Humidity Ratio	0.0105	kg water/kg dry air



主要部件说明

Description of the main components

风筒

Wind cone

采用玻璃钢材质动能回转型风筒，模压工艺成型，梯形空腹加强筋结构，整体强度高，表面光滑美观，不龟裂、不褪色，紧固件均为不锈钢材质，风筒上带有透明耐蚀窥视镜，风筒表面喷涂抗紫外线和抗老化的美国Ashland胶衣树脂，筒壁采用等强度设计,抗风载荷大于0.96 KPa，使用寿命30年以上。动能回收值 $\geq 30\%$ 。

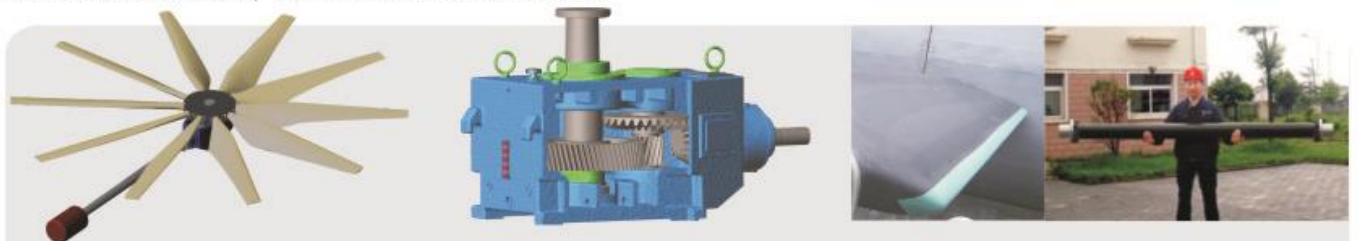
Kinetic energy rotation type wind cone made of glass fiber reinforced plastic is adopted, it is shaped through molding process, it has trapezium hollow reinforced rib structure with high overall strength, and smooth and beautiful surface, which does not crack and fade, fasteners are made of stainless steel, wind cone is provided with transparent corrosion-resistant sight glass, United States Ashland gel coat resin resisting UV and aging is coated on the surface of the wind cone, the cone wall adopt equal-strength design, the wind load is greater than 0.96KPa, and life is more than 30years. Kinetic energy recovery values are $\geq 30\%$.



风机

Fan

叶片采用高强度环氧玻璃钢材质，模压成型，机翼型设计，风机的叶轮出厂前经静平衡试验，试验的刚性转子平衡精度取G6.3。
 风机效率高、风压高、流量大，自重轻、机械强度高、传动平稳、寿命长、体积小、耐腐蚀、密封好、维护方便、安全可靠，在特定冷却塔的温热环境中能够长期连续运行。
 减速器为2级齿轮传动，齿轮所采用的材料为钛合金钢，经渗碳淬火处理，保证齿轮具有很高的耐磨性和抗冲击能力。
 高强度碳纤维传动轴，质量轻，强度大，硬度是钢材的10倍，抗拉强度3500MPa以上，转速可达3000转/分，是不锈钢传动轴的2倍。



The blade adopts high-strength epoxy glass fiber reinforced plastic materials and shaped through molding process with aerofoil design, the fan impeller accepts static balance test before leaving the factory, the testing rigidity rotor balance accuracy selects G6.3.

The fan has high efficiency, high wind pressure, great flux, light weight, high mechanical strength, smooth transmission, long life, small size, corrosion resistance, good sealing performance, easy maintenance, safety and reliability, and it can be operated continuously for long time in thermal-humidity environment of industrial cooling tower.

The reducer has stage 2 gear transmission, gears adopt titanium alloy steel and accept carburizing quenching and tempering, thereby ensuring that the gear has high abrasion resistance and impact resistance.

High-strength carbon fiber transmission shaft has light weight, high strength, its hardness is 10 times of steel, the tensile strength is 3500MPa above, its speed is up to 3000 rev / min , which is 2 times of a stainless steel shaft.



主要部件说明

Description of the main components

电动机

Electromotor

采用Y系列户外型鼠笼电动机，该电机具有设计新颖、结构紧凑、造型美观、效率和转矩高、启动转矩性能好、节能、低噪声、振动小、运行安全可靠等优点。

防护等级：IP55；

绝缘等级：F级；

工作电力条件：380V / 50Hz / 3P；

电机调整座采用加强型设计。

Y series outdoor cage motor is adopted, the motor has the advantages of novel design, compact structure, beautiful shape, high efficiency and torque, good starting torque performance, energy saving, low noise, little vibration, safe and reliable operation and the like.

Protection class: Ip55;

Insulation class: class F;

Working power conditions: 380V / 50Hz / 3P;

The motor adjusting seat adopts enhanced design.



风机监控仪

Fan monitor

KR-939SB3型风机安全监控装置。监控油温、油位、振动，探头内的温度测量使用了半导体集成传感器；油位测量采用了热导式传感原理；用于振动测量的磁电式传感器，可以直接获取机械振动的速度信号，经放大器、带通滤波器、真有效值（RMS）变换器，将有效带宽内的复杂振动波形进行真有效值转换，最终由电压/电流驱动电路产生4~20mA输出。



KR-939SB3 fan security monitoring device; it is used for monitoring oil temperature, oil level and vibration, and temperature measurements inside the probe; It uses semiconductor integrated sensor; oil level measurement adopts thermal conductivity sensing principle; the magnetic-electric sensor for vibration measurement can directly obtain the speed signal of mechanical vibration, the complicated vibration waveform in the effective bandwidth can accept true effective value conversion through the amplifier, bandpass filter and true RMS (RMS) converter, finally 4~20mA output can be generated through the voltage / current drive circuit.



主要部件说明

Description of the main components

高效收水器

Efficient water collector

采用改性PVC材质高效加筋弧形收水器，机制挤拉工艺成型，在片材中添加了进口碳黑等改性剂。收水弧面上设置有阻水波形，有效阻止水滴在收水弧面上的涎流，避免了弧形收水器形成的二次飘水现象，从而使收水效率较常规收水器提高了一个数量级。收水效率高，该收水器收水效率按循环水量计其飘水损失可达0.001%以下，仅为国标允许值的十分之一，使叶片使用寿命可延长2~3年；



The modified PVC material efficient reinforced curved water collector is adopted and is formed through mechanism pull squeeze process, imported carbon black and other modifiers are added in the sheet materials. Water-blocking waveform is set on the water collection curved surface, thereby effectively blocking the flowing of water drops on the water collection curved surface, avoiding secondary droplet condition formed on the curved water collector, and improving the water collection efficiency by order of magnitude compared with conventional water collector. The water collection efficiency is high, the water droplet loss of the water collection efficiency of the water collector can reach 0.001% below according to circulating water quantity, which is only one tenth of the national standard allowable value, and thereby the service life of the blade can be prolonged by 2 to 3 years.

配水系统

Water distribution system

采用回路管网式自动稳压配水系统下喷式喷头喷淋，塔内配总管为机械强度高、内壁光滑、水压沿程损失小、抗腐蚀、自重轻的增强型UPVC管材，系统悬吊件为不锈钢材质。喷头材质为ABS塑料一次注塑成型，强度高使用寿命长，水量分布均匀。

Circuit pipe network type automatic voltage regulating water distribution system is adopted with net-jet nozzle spraying, the water drying pipe equipped in the tower belongs to enhanced UPVC pipes with high mechanical strength, smooth inner wall, low water pressure journey loss, anti-corrosion and light weight, and the system suspension component is made of stainless steel. The nozzle is made of ABS plastic with once injection molding, and it has high strength, long life and even water distribution.



淋水填料

Cooling tower packing

采用改性PVC材质S波薄膜填料，填料片采用优质PVC甲级新料，该填物理化性能指标符合能源部电力规划局DL/T 742-2001《冷却塔塑料部件技术条件》，使用寿命15年以上。填料气流阻力约低8~20%；阻燃氧指数≥40；亲水憎油性能优越、耐温差变化，在65℃条件下时不发生几何变形，在-40℃条件下不破碎、不脆裂；组装强度高。

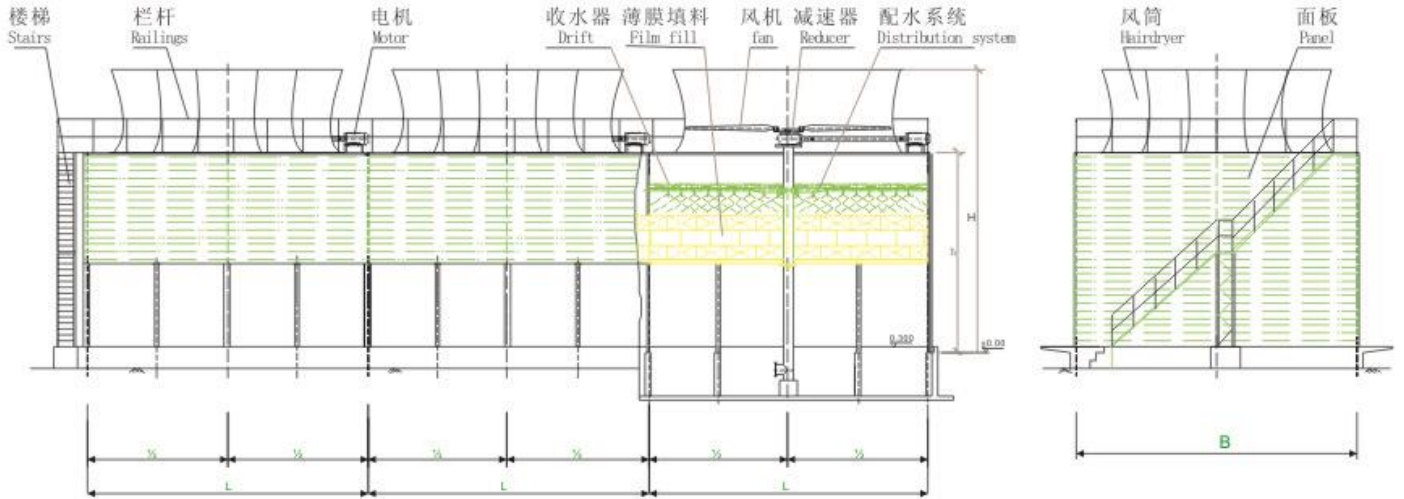


Modified PVC material S wave film fill is adopted, the filling sheets adopt high quality PVC grade A material, the filler's physical and chemical properties comply with the DL/T 742-2001 "cooling tower plastic part technical conditions" of the Power Planning Council of Department of Energy. The life is more than 15 years. The filler's airflow resistance is lower than 8 to 20% or so; The flame oxygen index is ≥ 40; oleophobic hydrophilic performance is superior, it can resist changes in temperature difference, geometric distortion does not occur under the conditions of 65 °C, and it does not break and crack under -45 DEG C with high assembly strength.



CLG-大型钢结构逆流式冷却塔

CLG large steel structure countercurrent cooling tower



CLG大型钢结构逆流式冷却塔系列参数表

Parameter table of CLG large steel structure countercurrent cooling tower series

设计条件：大气压 $P=1.004 \times 10^5 \text{Pa}$ (0.1Mpa)；湿球温度 $\tau = 28^\circ\text{C}$ ；干球温度 $\theta = 31.5^\circ\text{C}$
进塔水温 $t_1 = 43^\circ\text{C}$ ；出塔水温 $t_2 = 33^\circ\text{C}$ ；温差 $\Delta t = 10^\circ\text{C}$

Design conditions: atmospheric pressure $P = 1.004 \times 10^5 \text{Pa}$ (0.1Mpa); wet bulb temperature $\tau = 28^\circ\text{C}$; dry bulb temperature $\theta = 31.5^\circ\text{C}$
Tower feeding water temperature $t_1 = 43^\circ\text{C}$ Tower discharging water temperature $t_2 = 33^\circ\text{C}$; temperature difference $\Delta t = 10^\circ\text{C}$

规格 Specification	处理水量 Water processing capacity	单塔尺寸 Single tower size				风机 Fan			冷却塔配管口径 Equipped pipe caliber of cooling tower		制品重量 Product weight	运行湿重 Operative wet weight	标准点 噪声 Standard point noise dB (A)
		L	B	h	H	风量 Air quantity	直径 Diameter	功率 Power	进水管 Water feeding pipe	进塔水压 Inlet feeding water pressure	干重 Dry weight	湿重 Wet weight	
											m^3/h	mm	
型号 Model	m^3/h	mm	mm	mm	mm	m^3/h	mm	Kw	DN	mH_2O	Kg	Kg	
CLG-700	700	6800	6800	4500	6500	455000	4700	22.0	400	5.4	10500	27000	70
CLG-800	800	7000	7000	4500	6500	520000	5000	30.0	400	5.6	12100	29200	70
CLG-900	900	7600	7600	4800	7250	585000	5500	37.0	450	5.6	13500	32000	72
CLG-1000	1000	8000	8000	4800	7250	614000	6000	37.0	450	5.8	16500	36200	72
CLG-1250	1250	8600	8600	5200	7700	787000	6000	45.0	500	8.8	18750	38600	72
CLG-1500	1500	9600	9600	5600	8400	920000	7000	55.0	550	6.2	22500	45200	74
CLG-2000	2000	11200	11200	6000	8800	124000	7000	75.0	600	6.2	30200	56500	74
CLG-2500	2500	12400	12400	6000	9500	153000	8000	90.0	700	6.4	37500	63000	75
CLG-3000	3000	13600	13600	6000	9500	172000	8000	110.0	800	6.4	44900	73500	75
CLG-3500	3500	14800	14800	6000	9700	217000	8530	132.0	800	6.6	52500	87500	75

说明：1、表中数据为单塔数据，可根据用户要求进组合装配。

Description: Data in the table are single-tower data, the device can be combined and assembled according to user demand.

2、塔体立柱与基础预埋钢板定位焊接。

Tower upright post and foundation embedded steel plates are located for welding.

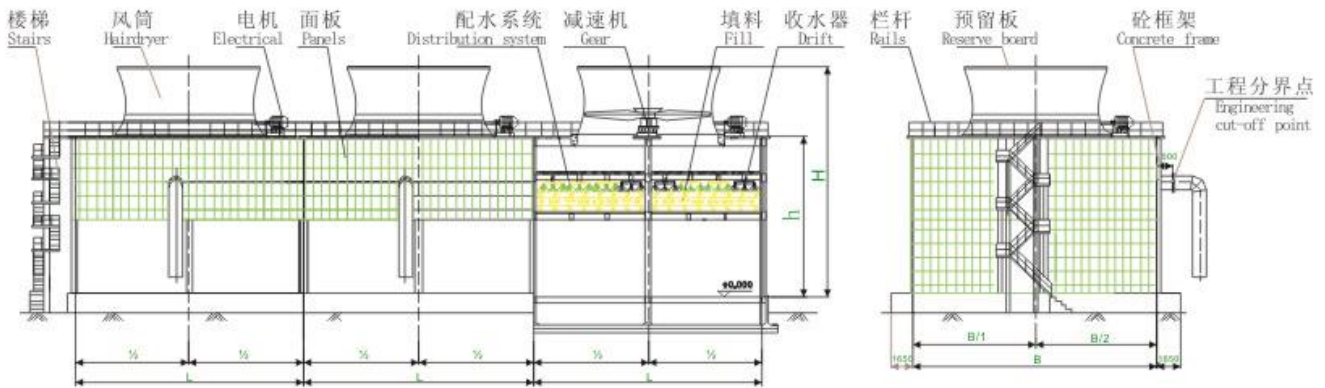
3、本系列塔基础详图另行提供。

The detailed drawing of the series of tower foundation is additionally provided.



CLH-钢混(砼)结构逆流式冷却塔

CLH-reinforced concrete (concrete) structure cooling tower series



CLH-钢混(砼)结构逆流式冷却塔系列参数表

Parameter table of CLH-reinforced concrete (concrete) structure cooling tower series

设计条件: 大气压 $P=1.004 \times 10^5 \text{Pa}$ (0.1Mpa); 湿球温度 $\tau = 28^\circ\text{C}$; 干球温度 $\theta = 31.5^\circ\text{C}$
进塔水温 $t_1 = 43^\circ\text{C}$; 出塔水温 $t_2 = 33^\circ\text{C}$; 温差 $\Delta t = 10^\circ\text{C}$

Design conditions: atmospheric pressure $P = 1.004 \times 10^5 \text{Pa}$ (0.1Mpa); wet bulb temperature $\tau = 28^\circ\text{C}$; dry bulb temperature $\theta = 31.5^\circ\text{C}$
Tower feeding water temperature $t_1 = 43^\circ\text{C}$ Tower discharging water temperature $t_2 = 33^\circ\text{C}$; temperature difference $\Delta t = 10^\circ\text{C}$

规格 Specification 型号 Model	处理水量 Water processing capacity m^3/h	单塔尺寸 Single tower size				风机 Fan			冷却塔配管口径 Equipped pipe caliber of cooling tower		制品重量 Product weight	运行湿重 Operates net weight	标准点 噪声 Standard point noise dB (A)
		L	B	h	H	风量 Air quantity	直径 Diameter	功率 Power	进水管 Water feeding pipe	进塔水压 Tower inlet side point	干重 Dry weight	湿重 Wet weight	
		mm	mm	mm	mm	m^3/h	ϕ mm	Kw	DN	mH ₂ O	Kg	Kg	
CLH-700	700	7000	7000	6500	8500	465000	4700	22.0	400	5.4	14400	85000	70
CLH-800	800	7600	7600	6500	8500	534000	5000	30.0	400	5.6	19200	88000	70
CLH-900	900	8000	8000	7000	9500	597000	5500	37.0	450	6.0	21100	118000	72
CLH-1000	1000	8400	8400	7000	9500	632000	6000	37.0	450	6.2	24400	128000	72
CLH-1250	1250	9000	9000	7200	9700	761000	6000	45.0	500	6.5	29200	146000	72
CLH-1500	1500	10000	10000	7800	10300	945000	7000	55.0	550	6.8	35600	184000	74
CLH-2000	2000	11400	11400	8000	10500	124000	7000	75.0	600	7.0	44200	246000	74
CLH-2500	2500	12800	12800	8500	11500	155000	8000	90.0	700	7.2	52000	295000	75
CLH-3000	3000	14200	14200	9000	12000	192000	8530	110.0	800	7.4	65000	387000	75
CLH-3500	3500	15200	15200	9400	13200	225000	8530	132.0	800	8.0	77600	473000	75
CLH-4000	4000	16300	16300	10200	14000	248000	9140	160.0	900	8.4	86500	621000	75
CLH-4500	4500	17400	17400	10800	14700	275000	9140	185.0	900	8.6	99200	728000	75
CLH-5000	5000	18200	18200	11200	15600	207500	9750	200.0	1000	6.9	109000	856000	75

说明: 1、表中数据为单塔数据,可根据用户要求进组合装配。

Description: Data in the table are single -tower data, the device can be combined and assembled according to user demand.

2、塔体立柱与基础预埋钢板定位焊接。
Tower upright post and foundation embedded steel plates are located for welding.

3、本系列塔基础详图另行提供。
The detailed drawing of the series of tower foundation is additionally provided.



冷却塔标准设计工况

Standard design working condition of cooling tower

设计参数 Design parameter	CLC系列喷雾推进通风冷却塔 CLC series spray boost ventilation cooling tower	
进水温度 (°C) Feeding water temperature	43	37
出水温度 (°C) Discharging water temperature	33	32
设计温差 Δt (°C) Design temperature difference Δt	10	5
干球温度 (°C) Dry bulb temperature	31.5	
湿球温度 (°C) Wet bulb temperature	28	
大气压力MPa Atmospheric pressure Mpa	100.4	

附注:

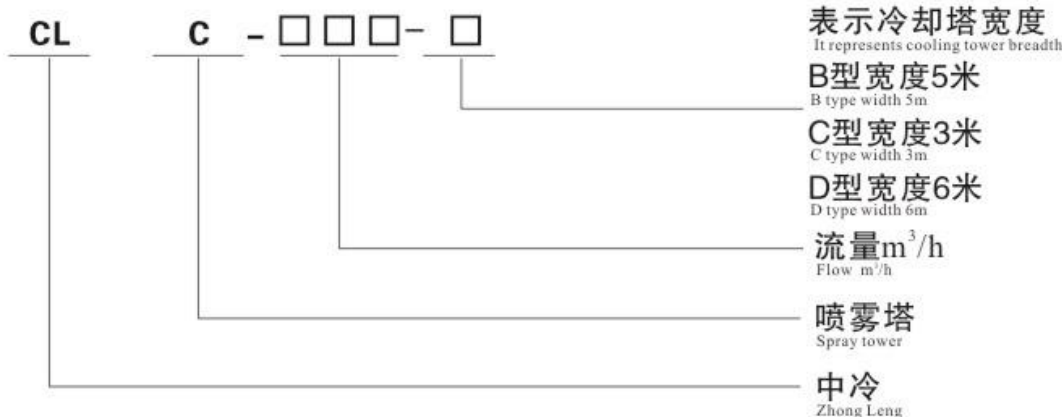
- 噪声指标符合国标GB7190.1-2008规定;
- 非标准工况, 需经换算后再选择;
- 可根据客户要求对冷却塔的选型、旧塔改造、有特殊要求的新塔设计;
- 可根据客户要求做特殊设计, 特别是进水温度超过65°C时, 喷雾推进通风冷却塔与其他同类产品相比具有更大优势;
- 因产品性能改进, 规格有所变动, 不另行通知;
- 具体设计方案以本公司提供的图纸尺寸为准。

Note:

- ◆ Noise indicators are in line with regulations in the national standard GB7190.1-2008
- ◆ It should be selected after conversion as for non-standard working conditions
- ◆ Model selection, old tower modification, and design of new tower with special requirement can be carried out according to customer demand;
- ◆ Special design can be carried out according to customer demand, especially when the feeding water temperature is higher than 65 DEG C, the spray boost ventilation cooling tower has more advantages compared with other similar products.
- ◆ The specifications can be changed due to performance improvement of products, and we do not notice additionally.
- ◆ The concrete design scheme should take the drawing provided by our company as standards.

CLC系列喷雾式冷却塔的代码说明

Code description of CLC series spray cooling tower



例: CLC-400-B

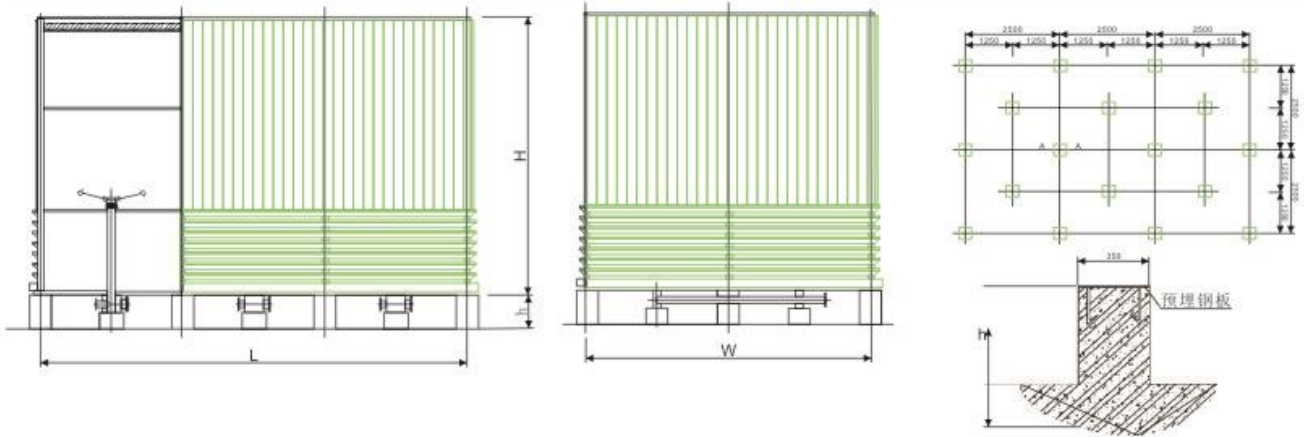
表示选用本公司喷雾通风冷却塔, 其处理水量为400 m^3/h , 宽度5米

Example: CLC-400-B

It indicates that our company's spray ventilation cooling tower is selected, and its water processing capacity is 400 m^3/h with the width of 5 m



CLC-B系列喷雾式冷却塔 CLC-B Spray Cooling Tower



规格参数表 Specification

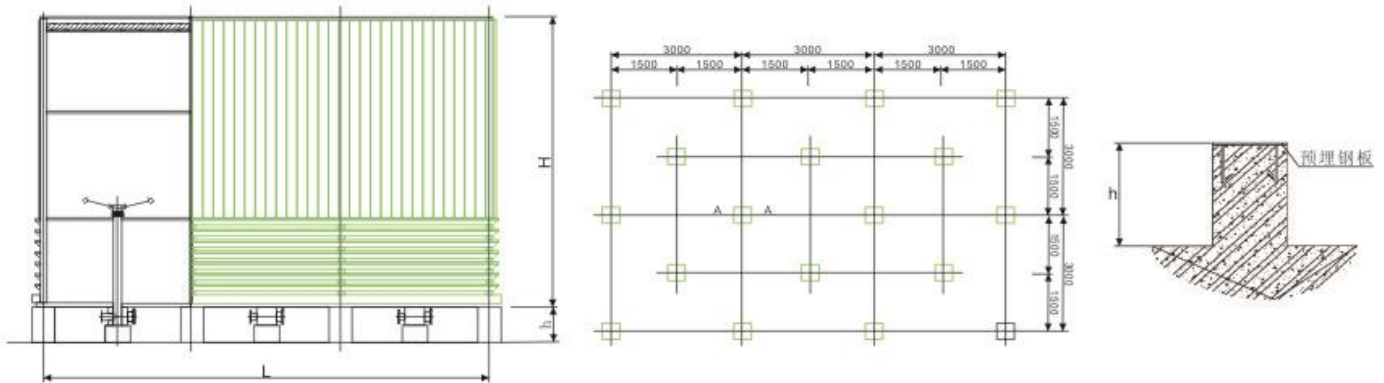
参数 型号 Parameter Model	冷却水量 (m ³ /h) Cooling water capacity	塔体尺寸(mm) 长L×宽B×高H Tower body size (mm) L*B*H	自重 (kg) Deadweight	湿重 (kg) Wet weight	进塔水压 (MPa) Water feeding water pressure	基础高度 (mm) Foundation height	预埋钢板尺寸(mm) 长×宽×高 Embedded steel plate size (mm) L*B*H
CLC-150B	150	2500 × 5000 × 5000	1300	2350	≥0.13	600	300 × 300 × 10
CLC-300B	300	5000 × 5000 × 5000	3500	5600	≥0.13	600	300 × 300 × 10
CLC-450B	450	7500 × 5000 × 5000	5250	7610	≥0.13	600	300 × 300 × 10
CLC-600B	600	10000 × 5000 × 5600	7800	9600	≥0.13	600	300 × 300 × 10
CLC-750B	750	12500 × 5000 × 5600	8300	11250	≥0.13	800	350 × 350 × 15
CLC-900B	900	15000 × 5000 × 5600	10500	13300	≥0.13	800	350 × 350 × 15
CLC-1050B	1050	17500 × 5000 × 5600	12560	15600	≥0.13	800	350 × 350 × 15

配管参数表 Pipe Parameters

参数 型号 Parameter Model	进水管管径(mm) 数量 Water feeding pipe Pipe diameter Quantity	回水管管径(mm) 数量 Water return pipe Pipe diameter Quantity	溢流管管径(mm) 数量 Overflow pipe Pipe diameter Quantity	排污管管径(mm) 数量 Waste discharge pipe Pipe diameter Quantity	自动补水管管径(mm) 数量 Automatic water replenishing pipe Pipe diameter Quantity
CLC-150B	1 × DN150	1 × DN200	1 × DN50	1 × DN50	1 × DN40
CLC-300B	2 × DN150	2 × DN200	2 × DN50	2 × DN50	1 × DN40
CLC-450B	3 × DN150	2 × DN250	2 × DN50	2 × DN50	1 × DN40
CLC-600B	4 × DN150	3 × DN250	3 × DN50	3 × DN50	2 × DN40
CLC-750B	5 × DN150	4 × DN250	4 × DN50	4 × DN50	2 × DN40
CLC-900B	6 × DN150	4 × DN250	4 × DN50	4 × DN50	3 × DN40
CLC-1050B	7 × DN150	5 × DN250	5 × DN50	5 × DN50	3 × DN40



CLC-C系列喷雾式冷却塔 CLC-C Spray Cooling Tower



规格参数表 Specification

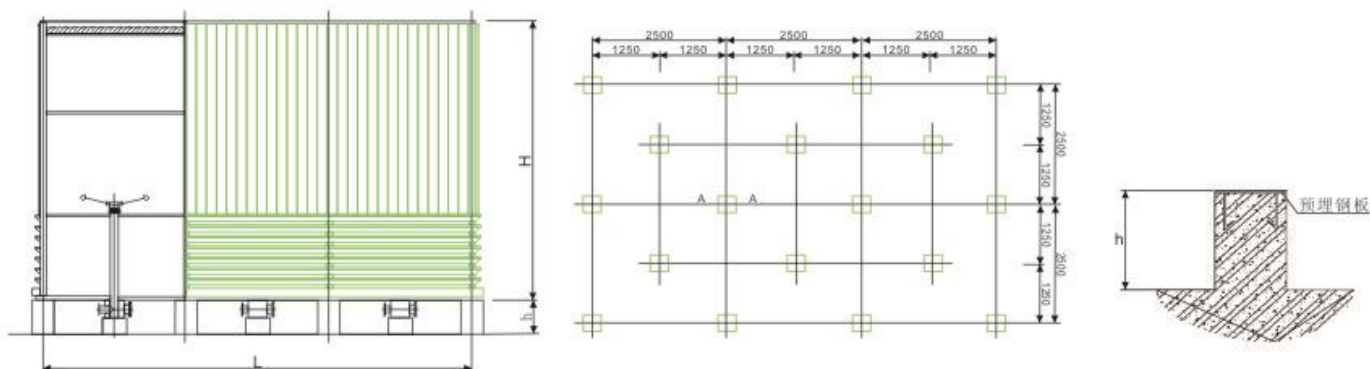
参数 Parameter 型号 Model	冷却水量 Cooling water capacity (m ³ /h)	塔体尺寸(mm) 长L×宽B×高H Tower body size (mm) L*B*H	自重 Deadweight (kg)	湿重 Wet weight (kg)	进塔水压 Water feeding water pressure (MPa)	基础高度 Foundation height (mm)	预埋钢板尺寸(mm) 长×宽×高 Embedded steel plate size (mm) L*B*H
CLC-200C	200	6000 × 3000 × 5000	3320	4780	≥0.13	800	300 × 300 × 10
CLC-300C	300	9000 × 3000 × 5000	4350	6600	≥0.13	800	300 × 300 × 10
CLC-400C	400	12000 × 3000 × 5000	5450	8380	≥0.13	800	300 × 300 × 10
CLC-500C	500	15000 × 3000 × 5000	6750	10180	≥0.13	800	300 × 300 × 10
CLC-600C	600	18000 × 3000 × 5600	8050	11970	≥0.13	800	300 × 300 × 10
CLC-700C	700	21000 × 3000 × 5600	9280	13770	≥0.13	1000	350 × 350 × 15
CLC-800C	800	24000 × 3000 × 5600	10400	15500	≥0.13	1000	350 × 350 × 15
CLC-900C	900	27000 × 3000 × 5600	11700	17350	≥0.13	1000	350 × 350 × 15
CLC-1000C	1000	30000 × 3000 × 5600	12900	19200	≥0.13	1000	350 × 350 × 15

配管参数表 Pipe Parameters

参数 Parameter 型号 Model	进水管管径(mm) Water feeding pipe Pipe diameter	回水管管径(mm) Water return pipe Pipe diameter	溢流管管径(mm) Overflow pipe Pipe diameter	排污管管径(mm) Waste discharge pipe Pipe diameter	自动补水管管径(mm) Automatic water replenishing pipe Pipe diameter
	数量 Quantity	数量 Quantity	数量 Quantity	数量 Quantity	数量 Quantity
CLC-100C	1 × DN150	1 × DN200	1 × DN50	1 × DN50	1 × DN40
CLC-200C	2 × DN150	1 × DN250	1 × DN50	1 × DN50	1 × DN40
CLC-300C	3 × DN150	2 × DN250	1 × DN50	2 × DN50	1 × DN40
CLC-400C	4 × DN150	2 × DN250	2 × DN50	2 × DN50	2 × DN40
CLC-500C	5 × DN150	3 × DN250	2 × DN50	3 × DN50	2 × DN40
CLC-600C	6 × DN150	3 × DN250	2 × DN50	3 × DN50	3 × DN40
CLC-700C	7 × DN150	3 × DN250	3 × DN50	3 × DN50	3 × DN40
CLC-800C	8 × DN150	4 × DN250	3 × DN50	4 × DN50	3 × DN40
CLC-900C	9 × DN150	4 × DN250	3 × DN50	4 × DN50	3 × DN40
CLC-1000C	10 × DN150	5 × DN250	4 × DN50	5 × DN50	4 × DN40



CLC-D系列喷雾式冷却塔 CLC-D Spray Cooling Tower



规格参数表 Specification

参数 型号 Parameter Model	冷却水量 (m ³ /h) Cooling water capacity	塔体尺寸(mm) 长L×宽B×高H Tower body size (mm) L*B*H	自重 (kg) Deadweight	湿重 (kg) Wet weight	进塔水压 (MPa) Water feeding water pressure	基础高度 (mm) Foundation height	预埋钢板尺寸(mm) 长×宽×高 Embedded steel plate size (mm) L*B*H
CLC-400D	400	6000 × 6000 × 5600	5760	8610	≥0.13	800	350 × 350 × 15
CLC-600D	600	9000 × 6000 × 5600	7950	11740	≥0.13	800	350 × 350 × 15
CLC-800D	800	12000 × 6000 × 5600	10100	14870	≥0.13	800	350 × 350 × 15
CLC-1000D	1000	15000 × 6000 × 5600	12300	18010	≥0.13	800	350 × 350 × 15
CLC-1200D	1200	18000 × 6000 × 5600	14470	21120	≥0.13	800	350 × 350 × 15
CLC-1400D	1400	21000 × 6000 × 5600	16650	24260	≥0.13	800	350 × 350 × 15
CLC-1600D	1600	24000 × 6000 × 5600	18850	27410	≥0.13	1000	350 × 350 × 15
CLC-1800D	1800	27000 × 6000 × 5600	21100	30530	≥0.13	1000	350 × 350 × 15
CLC-2000D	2000	30000 × 6000 × 5600	23220	33670	≥0.13	1000	350 × 350 × 15

配管参数表 Pipe Parameters

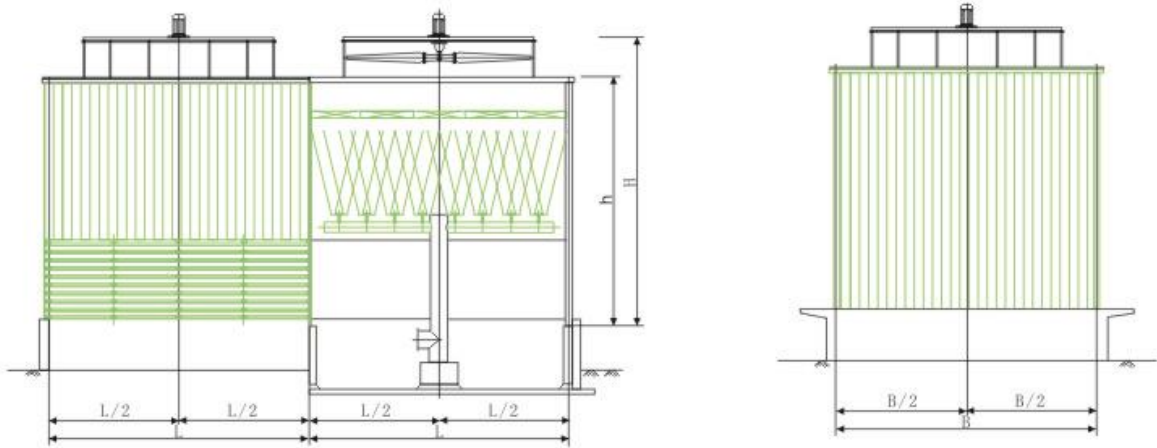
参数 型号 Parameter Model	进水管管径(mm) Water feeding pipe Pipe diameter	回水管管径(mm) Water return pipe Pipe diameter	溢流管管径(mm) Overflow pipe Pipe diameter	排污管管径(mm) Waste discharge pipe Pipe diameter	自动补水管管径(mm) Automatic water replenishing pipe Pipe diameter
	数量 Quantity	数量 Quantity	数量 Quantity	数量 Quantity	数量 Quantity
CLC-400D	2 × DN200	1 × DN250	1 × DN50	2 × DN50	1 × DN40
CLC-600D	3 × DN200	2 × DN250	1 × DN50	3 × DN50	1 × DN40
CLC-800D	4 × DN200	3 × DN250	2 × DN50	4 × DN50	2 × DN40
CLC-1000D	5 × DN200	4 × DN250	2 × DN50	5 × DN50	2 × DN40
CLC-1200D	6 × DN200	5 × DN250	2 × DN50	6 × DN50	2 × DN40
CLC-1400D	7 × DN200	6 × DN250	3 × DN50	7 × DN50	3 × DN40
CLC-1600D	8 × DN200	7 × DN250	3 × DN50	8 × DN50	3 × DN40
CLC-1800D	9 × DN200	8 × DN250	3 × DN50	9 × DN50	3 × DN40
CLC-2000D	10 × DN200	9 × DN250	4 × DN50	10 × DN50	4 × DN40



CLD-中空喷雾冷却塔

CLD-hollow spray cooling tower

CLD小型中空喷雾冷却塔 CLD small hollow spray cooling tower



CLD小型中空喷雾冷却塔参数表 Parameter table of CLD small hollow spray cooling tower

参数 Specification 型号 Model	处理水量 Water processing capacity m ³ /h	塔体尺寸(mm) Single tower size				风机 Fan			进水管 Water feeding pipe (DN)	干重 Dry weight (kg)	进水管 水压 Tower feeding water pressure (MPa)
		L	B	h	H	直径 c Diameter (mm)	风量 G Air quantity 10 ⁴ m ³ /h	电机功率 Electric Power kw			
CLD-100	100	2800	2800	4600	5200	1800	6.5	4.0	125	1350	0.15
CLD-200	200	4000	4000	4600	5200	2000	13.0	5.5	200	2500	0.15
CLD-300	300	4600	4600	4800	5400	2800	18.6	7.5	250	3150	0.15
CLD-400	400	5200	5200	4800	5400	3600	26.0	11.0	300	4500	0.15
CLD-500	500	5800	5800	5300	5900	4000	32.5	15.0	300	6550	0.15
CLD-600	600	6500	6500	5300	5900	4200	36.0	15.0	350	7250	0.15
CLD-700	700	7000	7000	5600	6600	4600	45.5	18.5	400	8600	0.15
CLD-800	800	7600	7600	5600	6800	4700	52.0	22.0	400	10500	0.15
CLD-1000	1000	8400	8400	6000	7200	5500	60.0	37.0	450	11300	0.15

设计条件: 干球温度 $\theta=31.5^{\circ}\text{C}$ 湿球温度 $\tau=28^{\circ}\text{C}$ 大气压 $P=100.4\text{Kpa}$ 设计说明: 1、可根据用户需求进行任意台塔组合装配
进水温度 $t_1=43^{\circ}\text{C}$ 出水温度 $t_2=33^{\circ}\text{C}$ 2、各基础标高相同, 允许偏差 $\pm 2\text{mm}$ 。

3、冷却塔基础另行提供。

Design conditions:

atmospheric pressure $P = 1.004 \times 10^5 \text{Pa}$ (0.1Mpa); wet bulb temperature $\tau = 28^{\circ}\text{C}$; dry bulb temperature $\theta = 31.5^{\circ}\text{C}$

Tower feeding water temperature $t_1 = 43^{\circ}\text{C}$ Tower discharging water temperature $t_2 = 33^{\circ}\text{C}$; temperature difference $\Delta t = 10^{\circ}\text{C}$

Design Description:

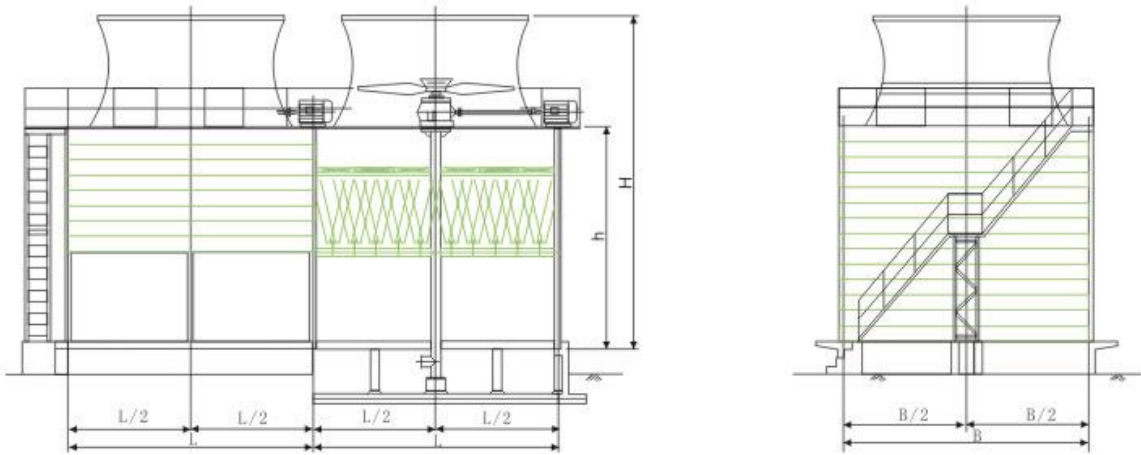
1. The towers can be arbitrarily combined and assembled according to user needs.
2. The foundation elevations are the same, the allowable deviation is $\pm 2\text{mm}$.
3. The foundation of cooling tower is additionally provided.



CLD-中空喷雾冷却塔

CLD-hollow spray cooling tower

CLD大型中空喷雾冷却塔 CLD large hollow spray cooling tower



CLD大型中空喷雾冷却塔参数表 Parameter table of CLD large hollow spray cooling tower

参数 Specification 型号 Model	处理 水量 Water processing capacity m ³ /h	塔体尺寸(mm) Single tower size				风机 Fan			进水管 Water feeding pipe (DN)	干重 Dry weight (kg)	进水管 水压 Tower inlet water pressure (MPa)
		L	B	h	H	直径 c Diameter (mm)	风量G Air quantity 10 ⁴ m ³ /h	电机功率 Electric Power kw			
CLD-1000	1000	8600	8600	5800	9600	6000	66.4	45.0	450	22500	0.15
CLD-1500	1500	10500	10200	5800	9600	7000	99.6	75.0	600	29700	0.15
CLD-2000	2000	12100	12100	6100	9600	8000	132.7	90.0	700	38400	0.15
CLD-2500	2500	13500	13500	6100	9600	8000	165.9	110	700	41600	0.15
CLD-3000	3000	14800	14800	6400	10200	8530	199.1	132	800	45800	0.15
CLD-3500	3500	15800	15800	6400	10200	8530	229.2	160	800	58200	0.15
CLD-4000	4000	16800	16800	6600	10400	9140	263.0	185	900	66900	0.15

设计条件：干球温度 $\theta=31.5^{\circ}\text{C}$ 湿球温度 $\tau=28^{\circ}\text{C}$ 大气压 $P=100.4\text{Kpa}$ 设计说明：1、可根据用户需求进行任意台塔组合装配
进水温度 $t_1=43^{\circ}\text{C}$ 出水温度 $t_2=33^{\circ}\text{C}$ 2、各基础标高相同，允许偏差 $\pm 2\text{mm}$ 。
3、冷却塔基础另行提供。

Design conditions:

atmospheric pressure $P = 1.004 \times 10^5 \text{Pa}$ (0.1Mpa); wet bulb temperature $\tau = 28^{\circ}\text{C}$; dry bulb temperature $\theta = 31.5^{\circ}\text{C}$

Tower feeding water temperature $t_1 = 43^{\circ}\text{C}$ Tower discharging water temperature $t_2 = 33^{\circ}\text{C}$; temperature difference $\Delta t = 10^{\circ}\text{C}$

Design Description:

1. The towers can be arbitrarily combined and assembled according to user needs.
2. The foundation elevations are the same, the allowable deviation is $\pm 2\text{mm}$.
3. The foundation of cooling tower is additionally provided.



适合场合及优势

CLM系列冷却塔被冷却介质不能与外界空气直接接触，指被冷却流体保持洁净，或者被冷却流体要保持一定压力而不能开式循环系统中。在冷却水系统中采用CLM系列的优势在于对主设备而言，不会形成水垢、生物污泥而增加热阻、减小流通面积甚至堵塞换热器和过滤器，导致换热效率降低，也不会因为换热表面的金属长期处于高温热负荷状态，导致金属疲劳，以及垢下腐蚀导致设备穿孔泄漏等，有利于延长设备的使用寿命，特别是随着技术的发展，主设备越来越多采用紧凑式高效换热器，从而对冷却水质的要求越来越高，CLM系列应用越来越广。

应用的行业场合

- 1)冶金、石化、硅酸盐业；
- 2)炼铁厂高炉软水闭路循环；
- 3)炼钢厂的加热炉、结晶器、氧枪等装置的冷却水系统；
- 4)轧钢厂、焦化厂的冷却水系统；
- 5)鼓风机、电机、轧钢机等设备的冷却水系统；
- 6)中频感应电炉、中高频电源与电控、熔炼炉、透热炉、
淬火炉、真空炉、感应保温炉的冷却水系统；
- 7)机加工设备的油路冷却和磨具冷却；
- 8)铸造、锻造、焊接设备的内部工艺水冷却；
- 9)与玻璃熔窑、单晶或多晶炉配套；
- 10)大型注塑机的水冷系统；
- 11)炼油化工厂的低温位油品冷却。各种塔顶油气的冷却，
蒸汽及其它工艺介质的冷却；
- 12)热电、冷冻、食品、中央空调行业。





Applications and advantages for

CLM Series cooling tower is the cooling medium is not in direct contact with the outside air, means the cooling fluid to keep clean, or fluid to be cooled Maintain a certain pressure and not open-loop system. In the cooling water system has the advantage of using CLM series of primary equipment, will not form into the scale, biological sludge and increased thermal resistance, reducing the flow area or heat exchanger and filter blocked, resulting in reduced heat transfer efficiency, it will not For the heat transfer surface of the metal a long period of high heat load conditions, resulting in metal fatigue and corrosion under the scale lead to perforation or leakage of the device, enabling To extend the useful life of equipment, especially with the technology, master more and more compact, high efficiency heat exchanger, thereby cooling Water quality have become increasingly demanding, CLM series more and more widely.

Applications where the industry

- 1) metallurgy, petrochemical, silicate industry;
- 2) ironworks blast furnace soft water closed loop;
- 3) steel mill furnace, mold, oxygen lance and other equipment cooling water system;
- 4), rolling mills, coking plant cooling water system;
- 5) blower motor, rolling mill and other equipment cooling water system;
- 6) The medium frequency induction furnace, high frequency power supply and electronic control, furnace, through the furnace, Quenching furnace, vacuum furnace, induction holding furnace cooling water system;
- 7) oil cooled machining and grinding equipment cooling;
- 8) casting, forging, welding equipment, internal process water cooling;
- 9) with the glass furnace, monocrystalline or polycrystalline furnace facilities;
- 10) large-scale injection molding machine cooling system;
- 11) the low bit of oil refining chemical plant cooling. Various oil and gas cooling tower, Steam and other process cooling medium;
- 12) combined, frozen, food, central air-conditioning industry.



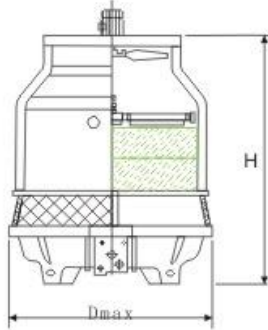
CLM冷却塔技术参数 CLM-closed cooling tower Technical parameters

型号 Model	冷量 Kcal/h	钢管规格 Assembled pipe	弯头 数量	进出口径 Caliber	喷淋泵 Spray pump		风机 Fan		外形尺寸 长×宽×高 Dimension(mm)	底架 Chassis
CLM-06	30000	Φ16×0.4	65	DN50	50-100 (I) /0.75	11	0.75	500	1600×900×1850	
CLM-10	50000	Φ16×0.4	70	DN50	50-100 (I) /0.75	11	0.75	500	1600×900×1850	
CLM-15	45000	Φ16×0.4	90	DN65	50-100 (I) /0.75	11	0.55×2	500	2000×1250×1950	
CLM-20	100000	Φ16×0.4	100	DN65	50-100 (I) /0.75	11	0.55×2	500	2000×1250×1950	
CLM-30	150000	Φ19×0.6	110	DN80	50-100 (I) /1.5	32.5	1.1×2	750	2500×1970×2263	6#
CLM-40	200000	Φ19×0.6	130	DN80	50-100 (I) /1.5	32.5	1.1×2	750	2500×1970×2263	6#
CLM-50	250000	Φ19×0.6	140	DN80	65-100 (I) A/2.2	45	1.1×3	710	3100×1970×2395	8#
CLM-55	280000	Φ19×0.6	161	DN80	65-100 (I) A/2.2	45	1.1×3	710	3100×1970×2395	8#
CLM-60	300000	Φ19×0.6	182	DN80	65-100 (I) A/2.2	45	1.1×3	710	3100×1970×2395	8#
CLM-70	350000	Φ19×0.6	210	DN100	65-100 (I) A/2.2	58	1.1×3	750	3100×1970×2890	8#
CLM-80	400000	Φ19×0.6	240	DN100	65-100 (I) A/2.2	58	1.1×3	750	3100×1970×2890	8#
CLM-100	500000	Φ19×0.6	270	DN100	65-100 (I) A/2.2	58	1.1×3	750	3100×1970×2890	8#
CLM-110	550000	Φ19×0.6	300	DN100	65-100 (I) A/3.0	65	1.1×3	750	3100×2340×2890	8#
CLM-120	600000	Φ19×0.6	330	DN100	65-100 (I) A/3.0	65	1.1×3	750	3100×2340×2890	8#
CLM-130	650000	Φ19×0.6	300	DN125	80-100 (I) A/4.0	89	1.1×4	750	3840×2340×3120	10#
CLM-135	675000	Φ19×0.6	330	DN125	80-100 (I) A/4.0	89	1.1×4	750	3840×2340×3120	10#
CLM-140	700000	Φ19×0.6	340	DN125	80-100 (I) A/4.0	89	1.1×4	750	3840×2340×3120	10#
CLM-145	725000	Φ19×0.6	350	DN125	80-100 (I) A/4.0	89	1.1×4	750	3840×2340×3120	10#
CLM-150	750000	Φ19×0.6	378	DN150	100-100/5.5	100	1.5×4	800	4350×2340×3645	12#
CLM-160	800000	Φ19×0.6	420	DN150	100-100/5.5	100	1.5×4	800	4350×2340×3645	12#
CLM-180	900000	Φ19×0.6	462	DN150	100-100/5.5	130	1.5×4	800	4350×2340×3645	12#
CLM-200	1000000	Φ19×0.6	518	DN150	100-100/5.5	130	1.5×4	800	4350×2340×3645	12#
CLM-210	1100000	Φ19×0.6	490	DN200	125-100A/7.5	143	2.2×4	800	4880×2340×3870	12#
CLM-240	1300000	Φ19×0.6	518	DN200	125-100A/7.5	143	2.2×4	800	4880×2340×3870	12#
CLM-260	1400000	Φ19×0.6	490	DN200	125-100A/7.5	172	2.2×4	900	5630×2340×3890	14#
CLM-280	1500000	Φ19×0.6	518	DN200	125-100A/7.5	172	2.2×4	900	5630×2340×3890	14#
CLM-320	1700000	Φ19×0.6	672	DN200	80-100(I)A/4.0×2	232	3.0×4	900	4880×3000×3960	16#
CLM-380	1900000	Φ19×0.6	756	DN200	80-100(I)A/4.0×2	232	3.0×4	900	4880×3000×3960	16#
CLM-420	2100000	Φ19×0.6	756	DN250	100-100 /5.5×2	260	3.0×4	900	5330×3000×3960	16#

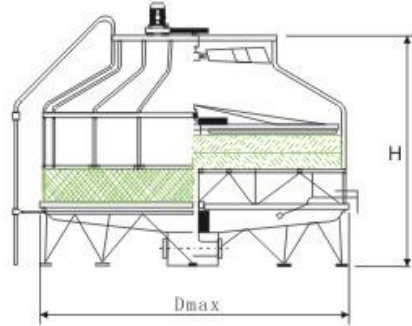


CLN-圆形逆流式冷却塔

CLN-Round reverse current cooling tower



CLN-8~125



CLN-150~1000

CLN-圆形逆流式冷却塔性能参数表 Parameter table of CLN-Round reverse current cooling tower

设计条件：大气压 $P=1.004 \times 10^5 \text{Pa}$ (0.1Mpa)；湿球温度 $\tau = 28^\circ\text{C}$ ；干球温度 $\theta = 31.5^\circ\text{C}$
进塔水温 $t_1 = 37^\circ\text{C}$ ；出塔水温 $t_2 = 32^\circ\text{C}$ ；温差 $\Delta t = 5^\circ\text{C}$

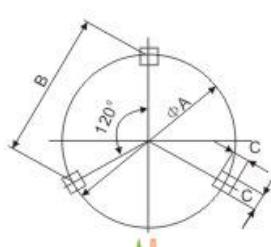
Design conditions: atmospheric pressure $P = 1.004 \times 10^5 \text{Pa}$ (0.1Mpa); wet bulb temperature $\tau = 28^\circ\text{C}$; dry bulb temperature $\theta = 31.5^\circ\text{C}$
Tower feeding water temperature $t_1 = 37^\circ\text{C}$ Tower discharging water temperature $t_2 = 32^\circ\text{C}$; temperature difference $\Delta t = 5^\circ\text{C}$

型号 (Model)	流量 (m^3/h)	外形尺寸 Dimension(mm)		电动机功率 Motor (Kw)	风机直径 Fan (mm)	风量 Air flow ($\times 10^4 \text{m}^3/\text{h}$)	水压 Headloss (Kpa)	重量weight(kg)			
		最大直径 (Dmax)	高度 (H)					低噪音型		超低噪音型	
								自重DRY	运行重 WET	自重DRY	运行重 WET
CLN-8	6.2	1350	2050	0.18	$\Phi 525$	0.7	13	42	180	46	190
CLN-10	7.8	1350	2200	0.18	$\Phi 600$	0.85	13	46	190	49	199
CLN-15	11.7	1530	2085	0.37	$\Phi 600$	1.4	13	54	290	60	298
CLN-20	15.6	1530	2260	0.55	$\Phi 730$	1.6	14	67	300	80	320
CLN-25	19.5	1740	2460	0.75	$\Phi 730$	2.0	16	98	500	110	540
CLN-30	23.4	2090	2530	0.75	$\Phi 730$	2.3	16	116	530	135	550
CLN-40	31.2	2090	2680	1.5	$\Phi 890$	2.8	16	130	550	150	590
CLN-50	39.2	2290	2535	1.5	$\Phi 890$	3.3	17	190	975	210	1050
CLN-60	46.8	2480	2850	1.5	$\Phi 1150$	4.2	17	240	1250	260	1280
CLN-80	62.6	2480	2850	1.5	$\Phi 1150$	4.5	18	260	1280	290	1410
CLN-100	78.1	3400	3370	2.2	$\Phi 1410$	7.0	21	500	1690	550	1650
CLN-125	97.5	3400	3535	2.2	$\Phi 1410$	8.3	23	540	1640	580	1700
CLN-150	117	3400	3535	2.2	$\Phi 1410$	9.5	23	580	1680	600	1750
CLN-175	136.8	4130	4515	4	$\Phi 1750$	11.5	30	860	1960	890	2010
CLN-200	156.2	4130	4515	4	$\Phi 1750$	12.5	30	880	1980	920	2100
CLN-225	175.5	5300	4680	5.5	$\Phi 2100$	15	33	1050	2770	1100	2870
CLN-250	195.1	5300	4680	5.5	$\Phi 2100$	17.5	33	1080	2800	1200	2950
CLN-300	234	5920	4780	7.5	$\Phi 2400$	20	34	1760	3930	1820	4050
CLN-350	273.2	5920	4780	7.5	$\Phi 2400$	22	34	1800	3790	1890	4100
CLN-400	312.1	6700	5350	11	$\Phi 2400$	24	36	2840	5740	2920	5900
CLN-500	392.4	6700	5350	15	$\Phi 2745$	26	36	2900	5800	3010	5950
CLN-600	468	7800	6210	15	$\Phi 2745$	37.5	42	3950	9350	4050	9450
CLN-700	547.2	7800	6210	18.5	$\Phi 3400$	37.5	42	4050	9450	4180	9600
CLN-800	626.4	8900	6260	22	$\Phi 3700$	50	45	4700	11900	4900	12100
CLN-1000	781.2	89600	6260	22	$\Phi 3700$	54	45	4900	12100	5000	12300

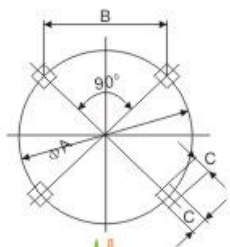


CLN-圆形逆流式冷却塔基础尺寸图 Basic dimensions of CLN-Round reverse current cooling tower

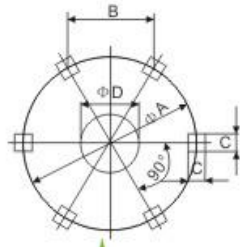
参数 型号 Specification Model	基础尺寸 Basic size					配管规格 Assembled pipe					
	A	B	C	D	E	进水 Intake water	出水 Outlet water	溢水 Over-flow	排污 Pollution discharging	自动补水 Water auto replenishing	手动补水 Water manual replenishing
CLN-8	560	485	250			40	40	25	25	15	
CLN-10	560	485	250			40	40	25	25	15	
CLN-15	740	641	250			50	50	25	25	15	
CLN-20	740	641	250			50	50	25	25	15	
CLN-25	1000	866	300			80	80	25	25	15	
CLN-30	1120	792	300			80	80	25	25	15	
CLN-40	1120	792	300			80	80	25	25	15	
CLN-50	1380	976	300			80	80	25	25	15	
CLN-60	1620	1146	300			100	100	25	25	20	
CLN-80	1620	1146	300			100	100	25	25	20	
CLN-100	2495	1248	300	Φ850		125	125	50	50	20	
CLN-125	2495	1248	300	Φ850		125	125	50	50	20	
CLN-150	2495	1248	300	Φ850		150	150	50	50	20	
CLN-175	3400	2404	300	Φ850		150	150	50	50	25	25
CLN-200	3400	2404	300	Φ850		150	150	50	50	25	25
CLN-225	4300	2150	300	Φ1200		200	200	80	80	40	40
CLN-250	4300	2150	300	Φ1200		200	200	80	80	40	40
CLN-300	4800	2460	300	Φ1200		200	200	80	80	40	40
CLN-350	4800	2460	300	Φ1200		200	200	80	80	40	40
CLN-400	5760	2205	400	Φ1200		200	200	80	80	40	40
CLN-500	5760	2205	400	Φ1200		250	250	100	100	50	50
CLN-600	6760	2587	400	Φ1500	Φ4000	250	250	100	100	50	50
CLN-700	6760	2587	400	Φ1500	Φ4000	250	250	100	100	50	50
CLN-800	7500	2870	400	Φ1500	Φ4000	300	300	100	100	80	80
CLN-1000	7500	2870	400	Φ1500	Φ4000	300	300	100	100	80	80



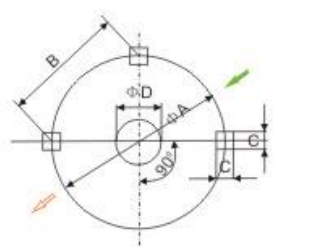
CLN-8-25



CLN-30-80

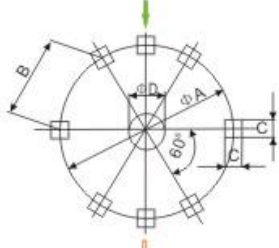


CLN-100-150

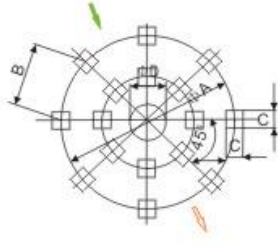


CLN-175-200

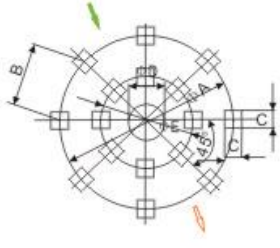
↑ 下水
↓ 下水



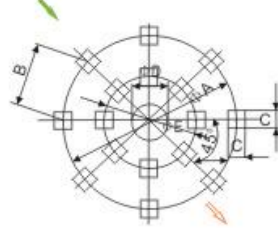
CLN-225-350



CLN-400-500



CLN-600-700



CLN-800-1000



江苏·中冷

江苏中冷冷却系统有限责任公司
Jiangsu Zhong Leng Cooling System Co., Ltd

地址：中国江苏省溧阳市竹箦工业集中区
Add: Zhuze Industrial Zone, LiYang City JiangSu Province, China.
Tel: +86-519-87700825 87709285 Fax: +86-519-87709285
Website: www.jszhongleng.com
E-mail: jszhongleng@163.com

注：由于技术不断发展，我们保留随时更改产品技术和说明的权利

2012版