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NEWIN
COOLING TECHNOLOGY

NWF | NWN series

闭式冷却塔系列

CLOSED COOLING TOWER

NEWIN MACHINERY | 钮盈机械

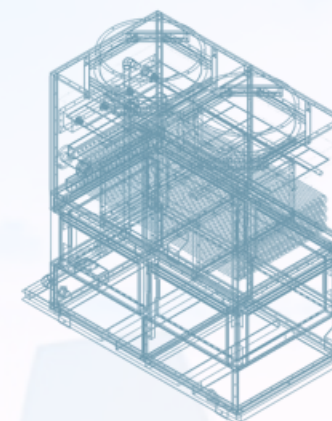
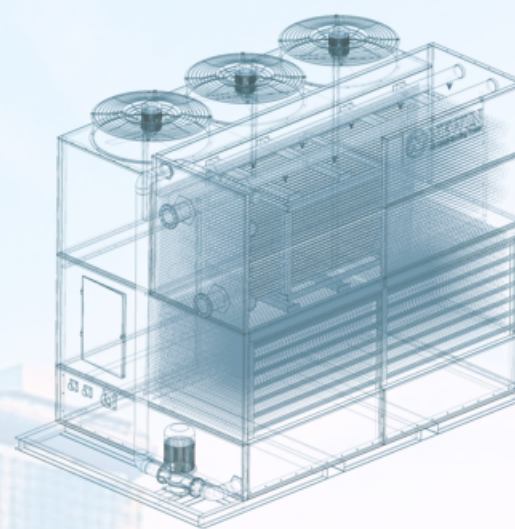


公司简介 COMPANY PROFILE

NEWIN 钮盈依托新加坡的先进技术，二十多年来致力于为全球客户提供卓越的冷却技术支持与服务。为更好地实践最新的冷却和节能设计理念，与蓬勃发展的中国市场共同成长，2012年在中国大陆成立深圳市钮盈机械营销中心，为全球客户提供可靠稳定的高品质冷却设备。NEWIN 钮盈中国工厂成立于2016年，位于广东省东莞市。为满足订单的生产需求和公司发展，NEWIN 钮盈制造工厂于2023年迁至惠州市，占地面积10000多平方米。

NEWIN 钮盈以新加坡研发中心的先进技术为核心，持续改进和完善产品，不断研发、设计高品质绿色节能工业制冷设备，如闭式冷却塔、开式冷却塔、蒸发式冷凝器，干冷器、干湿冷等冷却塔设备，为 HVAC、过程冷却、工业和制冷市场提供卓越的设备和服务。

NEWIN 钮盈已通过质量体系 ISO9001: 2016 和环境体系 ISO14001: 2016 的认证。NEWIN 钮盈冷却塔在东南亚、中东、南美、俄罗斯及 CIS 国家、非洲地区等市场保持稳定增长。依托强大的开发能力和综合管理能力，加上完善的售后服务，NEWIN 钮盈会一如既往的给全球客户提供高品质的产品和服务。



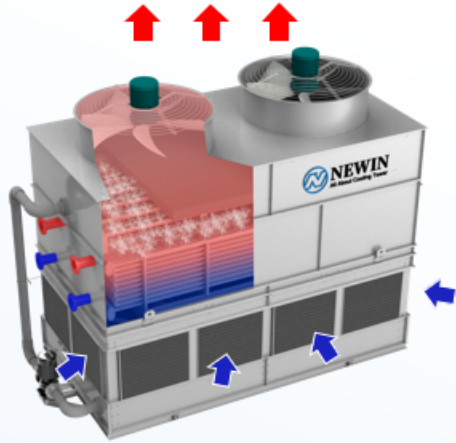
闭式冷却塔系列
Closed Cooling Tower

Relying on Singapore's advanced technology, NEWIN commits to providing excellent cooling technical support and services to customers worldwide more than 20 years. To better implement the latest cooling and energy-saving design concepts, and grows together with the booming Chinese market, the sales and marketing center Shenzhen Newin Machinery was set up in 2012, to provide reliable and stable high-quality cooling equipment to customers around the world. NEWIN China factory was set up in 2016, located in Dongguan city, Guangdong. To meet the production requirements of the orders and company development, the manufacturing factory has been moved to Huizhou city in 2023, which covers an area of more than 10,000 square meters.

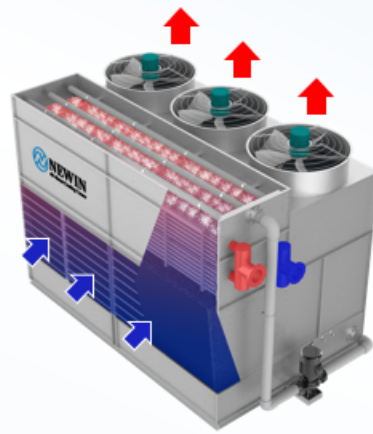
NEWIN takes the advanced technology of Singapore R & D center, continuously improve and update products, develop and design high-quality green and energy-saving industrial cooling equipment, such as closed cooling towers, open cooling towers, evaporative condensers, air coolers, dry and wet radiators provide excellent products and service for the HVAC, process cooling, industrial and refrigeration markets.

NEWIN is a certified enterprise of QS (quality system), ISO9001: 2016 and environmental system ISO14001:2016. NEWIN cooling towers keep a stable growth in the market of Southeast Asia, Middle East, South America, Russia and CIS countries, Africa area, etc. Based on our strongly development and comprehensive management, with great after-sales service, NEWIN products are well-known for the customers worldwide.

产品优势 PRODUCT SUPERIORITY



逆流闭式冷却塔
Counter Flow Closed Type Cooling Tower



复合流闭式冷却塔
Mixed Flow Closed Type Cooling Tower

产品设计及质量管理体系 Product design and quality management system

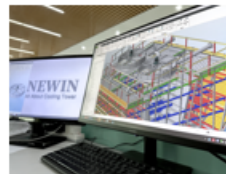
- ◆ 依据国际CTI ATC-105和CTI STD-201及GB/T7190-2018标准设计，确保产品性能。
- ◆ 透过扎实的理论基础，丰富的设计经验及CAE/CAM/CAD等电脑应用，构建出有效且符合客户需求的产品。

- Designed in accordance with international CTI ATC-105, CTI STD-201 and GB/T7190-2018 standards to ensure product performance.
- Through a solid theoretical foundation, rich design experience and computer applications such as CAE/CAM/CAD, we can build effective products that meet customer needs.

100% 冷却能力保证 100% cooling ability guarantee

- ◆ CTI 正式会员；
- ◆ 采用“CTI TOOLKIT”确保选型精准，对应性能曲线，选择最优的方案；
- ◆ 高效的风机驱动系统，可选的双速马达和变频马达，以最低耗电，获得最高热力性能。
- ◆ 支持项目现场CTI性能测试。

- Member of the CTI certification;
- Adopts "CTI TOOLKIT" to ensure accurate model selection, corresponding to the performance curve, and choose the best solution;
- Efficient fan drive system, optional two-speed motor and frequency conversion motor, to obtain the highest thermal performance with the lowest power consumption.
- Support project site CTI performance test.



严格的质量管理体系 Strict quality management system

- ◆ 为提高产品的可靠度及顾客满意度，从提案、设计、审查、执行均落实ISO9001:2016的要求。

- To improve product reliability and customer satisfaction, from the proposal, the design, review and implementation all implement the requirements of ISO9001 : 2016.



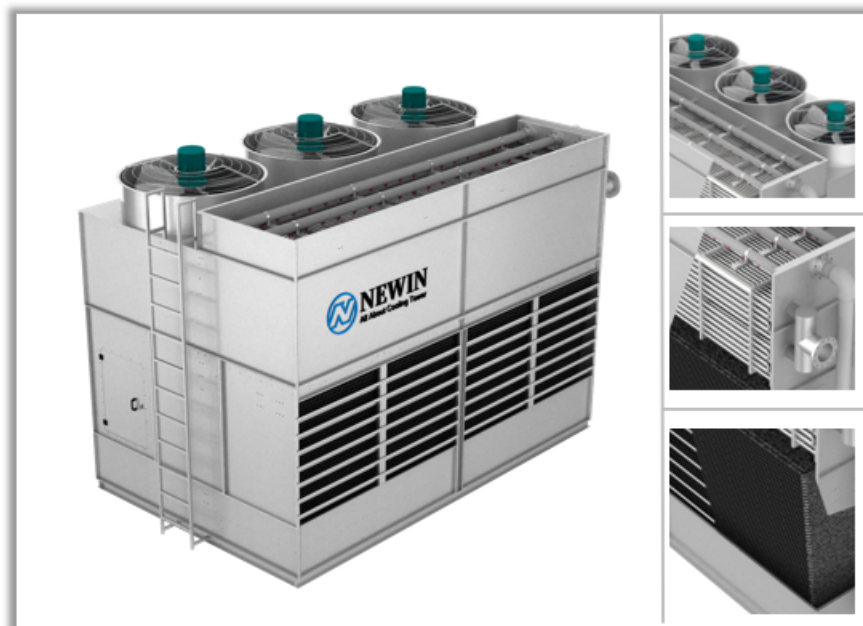
全方位的定制设计，贴心的服务模式 Full customized design, considerate service mode

- ◆ 可根据客户的场地，工况，能耗及使用情况等要求，全方位提供定制化设计，满足客户实际需求。
- ◆ 公司不断在完善服务流程，提出了“三快”服务标准，配货快、安装快、售后快，确保客户安心无忧。

- According to the customer's site, working conditions, energy consumption and usage requirements, a full range of customized designs available to meet the actual needs of customers.

- Improving the service process, and puts forward the "three fast" service standards, fast distribution, installation, and after-sales to ensure that customers are at ease.





NWF series mixed flow closed cooling tower is to flow the fluid medium that needs to be cooled in the high-efficiency serpentine heat exchanger, and the external spray system continuously wets the surface of the coil for cooling, so that the cooled medium passes through the partition wall heat exchange. The device exchanges heat with the spray water. The water sprayed on the coils flows through a section of PVC heat exchange layer with efficient cooling effect to be cooled and then falls into the water collection basin for recycling.

NWF series adopts composite flow cooling technology. Air is simultaneously sucked in and passed through the coil and the PVC heat exchange layer. Through evaporation and heat transfer, the heat is taken away from the spray water, cooling the coil and the fluid medium in the coil.

Pure coil cooling can accept high temperature water, water distribution method is uniform and reasonable, efficient heat exchange is not easy to be blocked, low noise, frequency conversion speed control, explosion-proof treatment and other optional additional configurations.

Applicable medium: water, oil, formaldehyde, quenching liquid, and other process circulating cooling media.

1 低维护和易于检查 Ease of inspection and maintenance

站在塔内可以舒适安全地检查和维护塔。运行期间可以在设备外部检查配水系统（洒水分支和喷嘴）。通过可拆卸的除水器模块从外部或内部轻松检查运行期间盘管。
Standing inside the tower can inspect and maintain the tower comfortably and safely. The water distribution system (spray branch and nozzles) could be checked outside the equipment during operation. Easily check the coil during operation from the outside or inside through the detachable eliminator module.

2 安装便利 Simple installation

NWF 冷却塔是工厂制造的，对于较大的型号，可以分段运输，以减小整体尺寸和重量，可以使用较小的起重机轻松进行现场分段组装。
NWF cooling towers are manufactured in the factory. For larger models, they will be transported in sections to reduce the overall size and weight, so that smaller cranes can be used to easily carry out on-site assembly in sections.

3 低噪音设计 Low noise design

NWF 闭塔系列包括低噪音轴流风扇，可最大限度的降低周围噪音。单侧进气口和更安静的塔式后部，适用于噪音敏感区域。NEWIN 填充物可将水一直顺畅地导入盆中，不会产生溅水声。
NWF closed tower series includes low-noise axial fans, which can minimize the surrounding noise. Single side air intake and quieter tower rear, suitable for noise-sensitive areas. NEWIN filling can lead water into the basin smoothly without splashing water.

4 不锈钢换热盘管 Stainless steel heat exchange coil

更长的设备寿命，更高的热效率，更高的耐腐蚀性，更轻，可回收
Longer equipment life, Higher thermal efficiency, higher corrosion resistance, lighter, Recyclable.

NWF 系列复合流闭式冷却塔，是将需要冷却的流体介质在高效蛇形的热交换器内部流动，外部喷淋系统以持续湿润盘管表面冷却，使得被冷却介质通过间壁式换热器与喷淋水换热。喷淋到盘管上的水流经一段具有高效冷却作用的PVC热交换层进行冷却后再落到集水盆中，以再循环利用。

NWF系列采用了复合流冷却技术，空气同时吸入并通过盘管和PVC热交换层，藉由蒸发及热传递，将热量从喷淋水中带走，进而冷却盘管及盘管中的流体介质。

纯盘管冷却可以接受高温进水，布水方式均匀合理，高效换热不易堵塞，低噪音、变频控速、防爆处理等多种可选附加配置。

* 适用介质：水、油、甲醛、淬火液，及其它工艺循环冷却介质。

喷淋水系统
Water distribution system

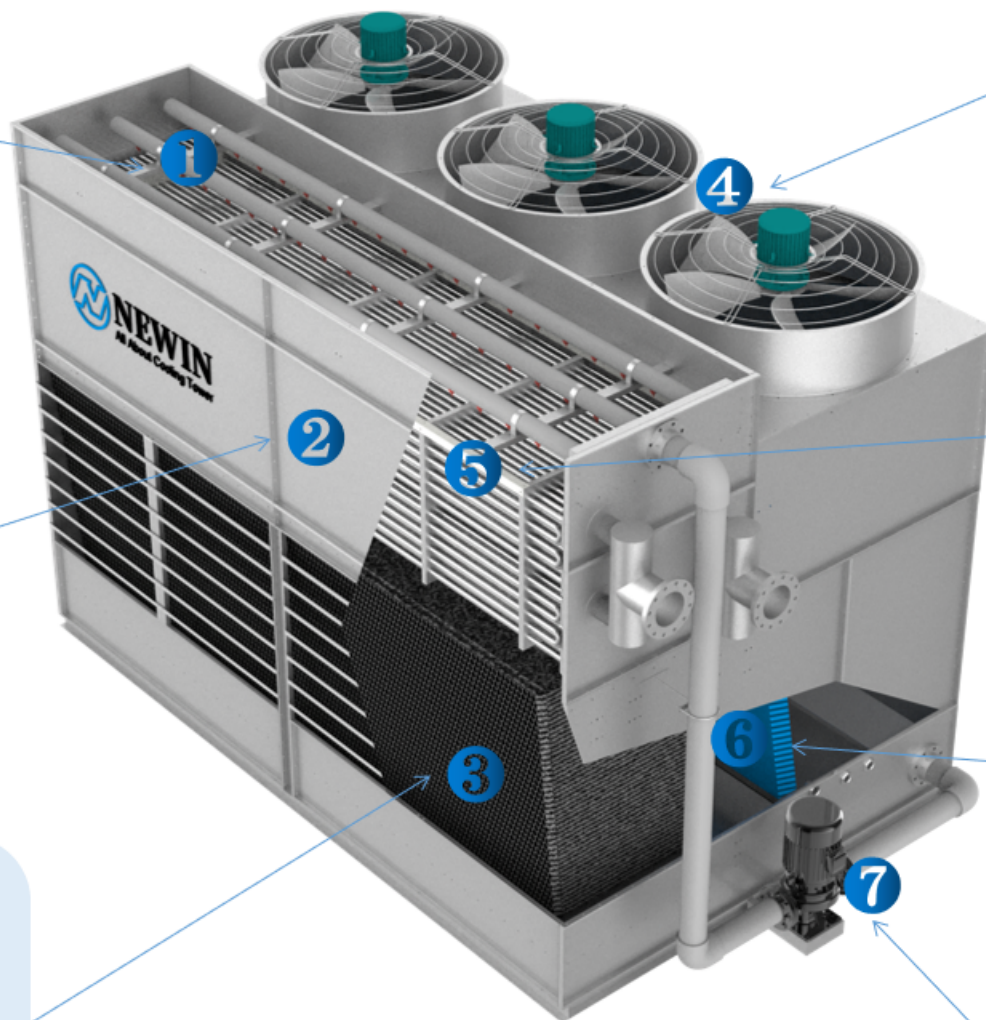
- ◆ 便于观察及检修;
- ◆ 多层喷洒保证喷淋水覆盖率;
- ◆ 防堵塞喷嘴。
- ◆ Visible and accessible during operation;
- ◆ Multi spray patterns ensure proper water coverage;
- ◆ Large orificem non-clogging nozzles.

耐用箱体结构材料
Heavy-duty construction

- ◆ 进口韩国浦项特殊合金镀锌板, 螺栓紧固采用304不锈钢;
- ◆ 可升级为304/316不锈钢板材;
- ◆ 抗腐蚀性强, 使用寿命长。
- ◆ Imported from South Korea's Pohang special alloy galvanized sheet, bolts are fastened with 304 stainless steel;
- ◆ Can be upgraded to 304/316 stainless steel plate;
- ◆ Strong corrosion resistance and long service life.

挡水板一体式散热填料
Fills intergated drift eliminator and louver

- ◆ 全新PVC材质, 特殊人字形设计, 增加换热面积, 保证换热性能;
- ◆ 进风格栅和收水器一体成型;
- ◆ 依据项目工况可升级为高温材料。
- ◆ Brand new PVC material, special herringbone design, increase heat exchange area, Ensure heat transfer performance;
- ◆ The inlet grille and the water collector are integrally formed;
- ◆ It can be upgraded to high-temperature materials according to the working conditions of the project.



高效风机传动系统
High efficient fan drive system

- ◆ 大品牌轴流风机, 稳定、高效;
- ◆ 低噪音、耐腐蚀;
- ◆ 双速或变频, 防爆马达可选。
- ◆ Big brand axial flow fan, stable, high efficiency;
- ◆ low noise and corrosion resistance;
- ◆ Two-speed or variable frequency, anti-explosion motor is optional.

高效换热盘管
High efficiency heat exchange coil

- ◆ 304不锈钢盘管;
- ◆ 可升级为紫铜, 316不锈钢或钛合金;
- ◆ 抗腐蚀性强, 使用寿命长。
- ◆ 304 stainless steel coil;
- ◆ Upgraded to copper, 316 stainless steel or titanium alloy;
- ◆ Strong corrosion resistance and long service life.

PVC 收水器 Drift eliminator

- ◆ 有效去除气流中夹带的水滴;
- ◆ 多由PVC材料制成, 耐腐蚀, 寿命长。
- ◆ Remove the exhaust air flow entrained water droplets.
- ◆ Made of PVC material, corrosion resistant, longevity.

大流量低扬程循环水泵
Big flow and low lift water pump

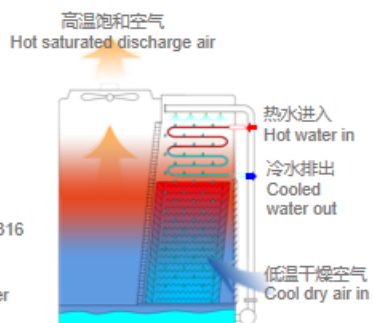
- ◆ 采用卧式静音系列循环泵壳;
- ◆ 大流量, 低扬程, 专为闭式塔设计;
- ◆ 外壳材质和安装方式可依据项目要求定制。
- ◆ Adopts horizontal silent series circulating pump shell;
- ◆ Large flow, low lift, specially designed for closed cooling towers;
- ◆ Shell material and installation method can be customized according to project requirements.



型号说明 Model Description

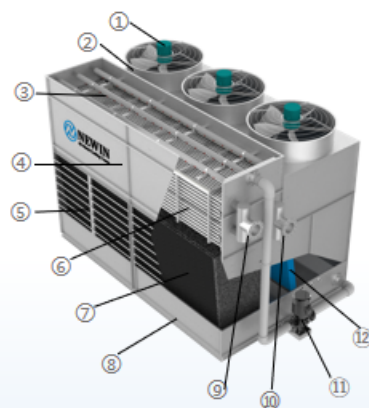
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① ② ③ ④

- ① 系列名称 Series Name:
NWF-复合流 Mixed flow
- ② 冷却效率 Cooling capacity:
600Kw 750Kw 900Kw 1000Kw...
- ③ 冷却塔主体材质 Construction material:
Z- Magnesium aluminum zinc plate Z7-Z700 HDGS S-SUS304 S6-SUS316
- ④ 换热器主体材质 Heat exchanger material:
Z-热浸镀锌钢 HDGS S-SUS304 S6-SUS316 Cu-TP2无缝脱氧紫铜 Copper
Ti-专用钛金属 Titanium alloy



结构介绍 Structure Introduction

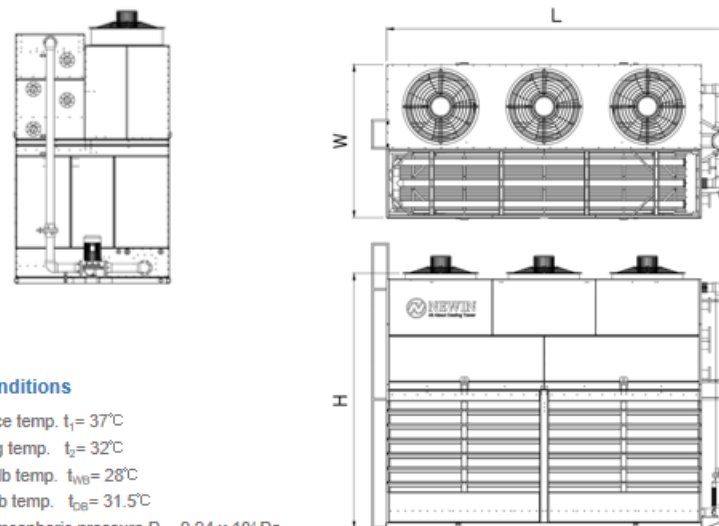
- ① 风机 Fan motor
- ② 风筒 Fan stack
- ③ 喷淋系统 Distribution system
- ④ 外壳 Casing
- ⑤ 进风百叶 Air inlet louver
- ⑥ 盘管 Coil cooler
- ⑦ 填料 Fills
- ⑧ 冷水盘 Water basin
- ⑨ 进水口 Water inlet
- ⑩ 出水口 Water outlet
- ⑪ 喷淋泵 Spray pump
- ⑫ 收水器 Drift eliminator



项目案例 Reference Projects



性能参数 Performance Parameter

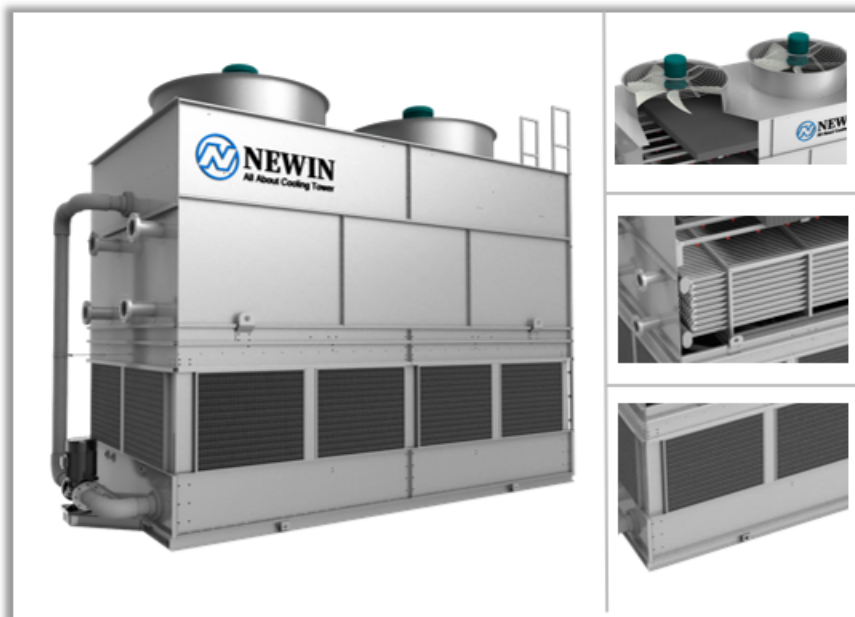


设计工况 Design Conditions

进水 Entrance temp. $t_1 = 37^\circ\text{C}$
 出水 Leaving temp. $t_2 = 32^\circ\text{C}$
 湿球 Wet bulb temp. $t_{wb} = 28^\circ\text{C}$
 干球 Dry bulb temp. $t_{db} = 31.5^\circ\text{C}$
 大气压力 Atmospheric pressure $P_0 = 9.94 \times 10^4 \text{ Pa}$

NWF 型号 model	冷却能力 water capacity m³/h	尺寸 dimension (mm)			重量 weight (kg)	
		长 L	宽 W	高 H	净重 dry	运行重 wet
NWF-120-Z7-S	20	2300	1910	2850	840	1940
NWF-180-Z7-S	30	2300	1910	2930	880	2010
NWF-230-Z7-S	40	2850	2110	2930	1140	2700
NWF-290-Z7-S	50	3550	2110	2930	1380	3400
NWF-350-Z7-S	60	4150	2110	2930	1600	4010
NWF-450-Z7-S	80	4550	2250	3480	2060	4710
NWF-600-Z7-S	100	4550	2250	3720	2200	4900
NWF-750-Z7-S	125	5200	2250	4270	3200	6920
NWF-900-Z7-S	150	5200	2250	4490	3550	7540
NWF-1000-Z7-S	175	5200	2870	4490	4050	8590
NWF-1150-Z7-S	200	5900	2870	4540	4540	9680
NWF-1450-Z7-S	250	5900	3150	4690	5320	12230
NWF-1750-Z7-S	300	6500	3150	4690	5940	13740

* 此样本仅包含发行时的数据，请勿直接用于工程施工，具体的资料需在购买时进一步与销售工程师确认。如需多台联合机组，请咨询厂家提供方案。NEWIN保留更改上表参数或尺寸而不另行通知的权利。
 This table sample only contains the data when issued, please do not use for engineering construction. Please further to confirm with sales and engineer about the detailed data before purchasing. If need multi-cells, please consult the manufacturer to provide the solutions. NEWIN reserves the right to change the parameters or dimensions of the table without notice.



NWN series counter flow closed cooling tower flows the fluid medium that needs to be cooled in the high-efficiency serpentine heat exchanger. The external spray system continuously wets the surface of the coil for cooling, so that the cooled medium passes through the partition heat exchanger and sprays water heat exchange. The shell is made of Z700 galvanized sheet or stainless steel (other materials are optional), and the cooling coil is made of stainless steel (copper or other materials are optional). The product has compact structure, less installation space, no pre-cooling filler, and is suitable for cooling higher temperature working fluids. The size of the tower body could be customized, suitable for container transportation.

Combined with multiple units is available, closed loop, clean medium, not easy to scale, energy saving and water saving, support dry operation mode without spray water in winter, can replace chillers in winter, greatly reduce energy consumption. Imported material shell, suitable for various severe environments, the self-draining liquid heat exchange coil is shut down, which is convenient for anti-freezing protection in winter.

Pure coil cooling can accept high temperature water, water distribution method is uniform and reasonable, efficient heat exchange is not easy to be blocked, low noise, frequency conversion speed control, explosion-proof treatment and other optional additional configurations.

*Applicable medium: water, oil, formaldehyde, quenching liquid, and other process circulating media.

1 低维护和易于检查 Ease of inspection and maintenance

站在塔内可以舒适安全地检查和维护塔。运行期间可以在设备外部检查配水系统（洒水分支和喷嘴）。通过可拆卸的除水器模块从外部或内部轻松检查运行期间盘管。
Standing inside the cooling tower can inspect and maintain comfortably and safely. The water distribution system (spray branch and nozzle) could be checked outside the equipment during operation. Easily check the coil during operation from the outside or inside through the detachable eliminator module.

2 安装便利 Simple installation

NWN 冷却塔是工厂制造的，对于较大的型号，可以分段运输，以减小整体尺寸和重量，可以使用较小的起重机轻松进行现场分段组装。
NWN cooling towers are manufactured in the factory. For larger models, they will be transported in sections to reduce the overall size and weight, so that smaller cranes can be used to easily carry out on-site assembly in sections.

3 全年运行可靠 Reliable operation throughout the year

无故障过程操作 - 闭环保护过程流体和设备免受外部污染。对于极冷的天气操作，请在负载减少期间关闭喷洒系统并在干燥状态下操作。
Trouble-free process operation-closed loop protection of process fluids and equipment from external contamination. For extremely cold weather operation, please turn off the sprinkler system and operate in a dry state during the load reduction period.

4 不锈钢换热盘管 Stainless steel heat exchange coil

更长的设备寿命，更高的热效率，更高的耐腐蚀性，更轻，可回收利用。
Longer equipment life, Higher thermal efficiency, higher corrosion resistance, lighter, Recyclable.

NWN 系列逆流闭式冷却塔，将需要冷却的流体介质在高效蛇形的热交换器内部流动，外部喷淋系统以持续湿润盘管表面冷却，使得被冷却介质通过间壁式换热器与喷淋水换热。外壳采用Z700镀锌板或不锈钢板（其他材质可选），冷却盘管使用不锈钢（紫铜或其他材质可选）。产品结构紧凑，安装空间少，无预冷填料，适合冷却更高温度的工作流体。塔体尺寸可非标定制适合集装箱运输，满足定制项目需求。

冷却塔可多台组合，闭式循环，介质清洁、不易结垢，节能节水，支持冬季无喷淋水干运行模式，冬季可代替冷水机，极大程度降低能耗。进口材质外壳，适用各类严峻环境，停机自排液换热盘管，便于冬季抗冻防护。

纯盘管冷却可以接受高温进水，无须顾虑PVC填料耐温极限，布水方式均匀合理，高效换热不易堵塞，低噪音、变频控速、防爆处理等多种可选附加配置。

*适用介质：水、油、甲醛、淬火液，及其它工艺循环冷却介质。

高效风机传动系统
High efficient fan drive system

- ◆ 大品牌轴流风机，稳定、高效；
- ◆ 低噪音、耐腐蚀；
- ◆ 双速或变频，防爆马达可选。
- ◆ Big brand axial flow fan, stable, high efficiency;
- ◆ low noise and corrosion resistance;
- ◆ Two-speed or variable frequency, anti-explosion motor is optional.

喷淋水系统
Water distribution system

- ◆ 多层喷洒保证喷淋水覆盖率；
- ◆ 防堵塞喷嘴。
- ◆ Multi spray patterns ensure proper water coverage;
- ◆ Large orificem non-clogging nozzles.

高效换热盘管
High efficiency heat exchange coil

- ◆ 304不锈钢盘管；
- ◆ 可升级为紫铜，316不锈钢或钛合金；
- ◆ 抗腐蚀性强，使用寿命长。
- ◆ 304 stainless steel coil;
- ◆ Upgraded to copper, 316 stainless steel or titanium alloy;
- ◆ Strong corrosion resistance and long service life.

大流量低扬程循环水泵
Big flow and low lift water pump

- ◆ 采用卧式静音系列循环泵壳；
- ◆ 大流量，低扬程，专为闭式塔设计；
- ◆ 外壳材质和安装方式可依项目要求定制。
- ◆ Adopts horizontal silent series circulating pump shell;
- ◆ Large flow, low lift, specially designed for closed cooling towers;
- ◆ Shell material and installation method can be customized according to project requirements.

PVC 收水器 Drift eliminator

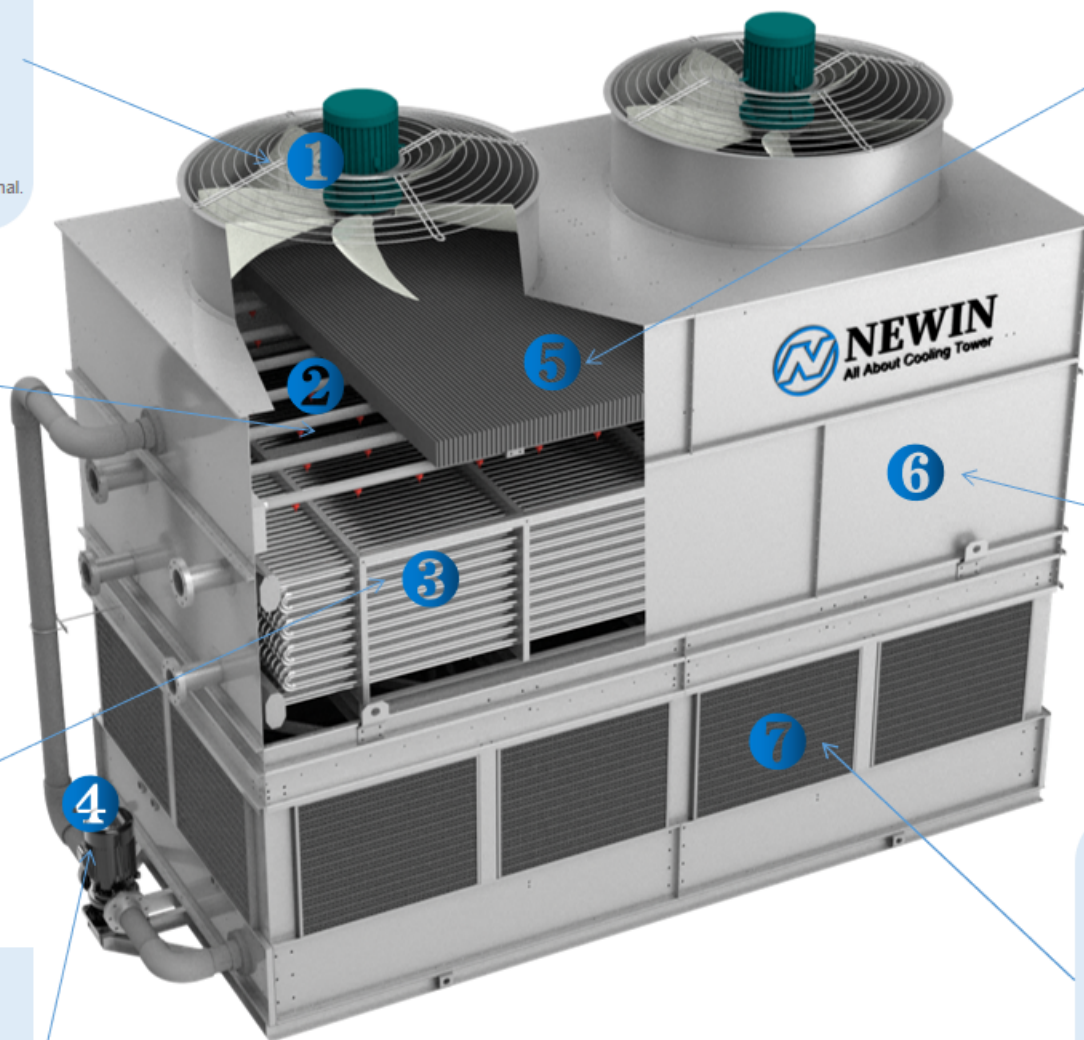
- ◆ 有效去除气流中夹带的水滴；
- ◆ 多由PVC材料制成，耐腐蚀，寿命长。
- ◆ Remove the exhaust air flow entrained water droplets.
- ◆ Made of PVC material, corrosion resistant, longevity.

耐用箱体结构材料
Heavy-duty construction

- ◆ 进口韩国浦项特殊合金镀锌板，螺栓紧固采用304不锈钢；
- ◆ 可升级为304/316不锈钢板材；
- ◆ 抗腐蚀性强，使用寿命长。
- ◆ Imported from South Korea's Pohang special alloy galvanized sheet, bolts are fastened with 304 stainless steel;
- ◆ Can be upgraded to 304/316 stainless steel plate;
- ◆ Strong corrosion resistance and long service life.

易于拆卸的进风格栅
Easy disassembled type inlet grille

- ◆ 特殊3D立体45度通风流道，大大提高产品刚度和抗风载能力；
- ◆ 减少噪音，防止藻类的滋生；
- ◆ 防腐蚀，抗紫外线，免维护。
- ◆ Special 3D stereo 45-degree ventilation channel, greatly improves product rigidity and wind load resistance.
- ◆ Reduce noise and prevent the growth of algae.
- ◆ Anti-corrosion, anti-ultraviolet, maintenance-free.



型号说明 Model Description

N W N - 1 2 0 - Z 7 - S

① ② ③ ④

① 系列名称 Series Name:

NWN-逆流式 Counter flow

② 冷却效率 Cooling capacity:

600Kw 750Kw 850Kw 1000Kw.....

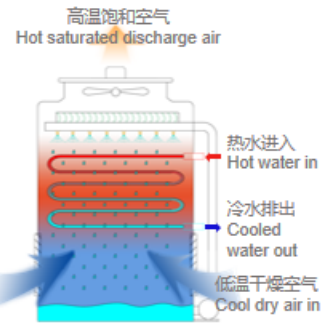
③ 冷却塔主体材质 Construction material:

Z- Magnesium aluminum zinc plate Z7-Z700 HDGS S-SUS304 S6-SUS316

④ 换热器主体材质 Heat exchanger material:

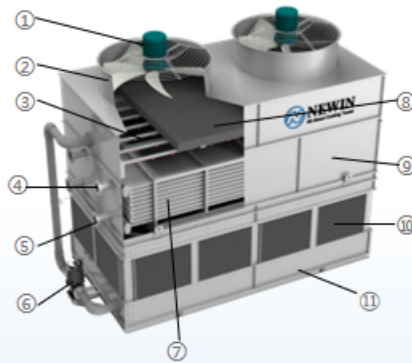
Z-热浸镀锌钢 HDGS S-SUS304 S6-SUS316 Cu-TP2无缝脱氧紫铜 Copper

Ti-专用钛金属 Titanium alloy



结构介绍 Structure Introduction

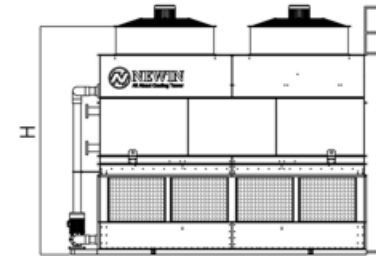
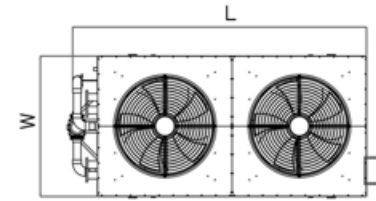
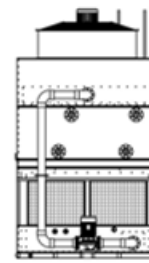
- ① 风机 Fan motor
- ② 风筒 Fan stack
- ③ 喷淋系统 Distribution system
- ④ 进水口 Water inlet
- ⑤ 出水口 Water outlet
- ⑥ 喷淋泵 Spray pump
- ⑦ 盘管 Coil cooler
- ⑧ 收水器 Drift eliminator
- ⑨ 外壳 Casing
- ⑩ 进风格栅 Air inlet grille
- ⑪ 冷水盘 Water basin



项目案例 Reference Projects



性能参数 Performance Parameter



设计工况 Design Conditions

进水 Entrance temp. $t_1 = 37^\circ\text{C}$
 出水 Leaving temp. $t_2 = 32^\circ\text{C}$
 湿球 Wet bulb temp. $t_{wb} = 28^\circ\text{C}$
 干球 Dry bulb temp. $t_{db} = 31.5^\circ\text{C}$
 大气压力 Atmospheric pressure $P_0 = 9.94 \times 10^4 \text{ Pa}$

NWN 型号 model	冷却能力 water capacity m³/h	尺寸 dimension (mm)			重量 weight (kg)	
		长 L	宽 W	高 H	净重 dry	运行重 wet
NWN-60-Z7-S	10	1800	900	2580	650	1050
NWN-90-Z7-S	15	1800	900	2680	700	1100
NWN-120-Z7-S	20	2300	1100	2520	850	1600
NWN-180-Z7-S	30	2850	1100	2570	1100	2000
NWN-230-Z7-S	40	2850	1100	2780	1150	2100
NWN-290-Z7-S	50	2850	1100	2780	1250	2200
NWN-350-Z7-S	60	2850	1200	2940	1400	2500
NWN-450-Z7-S	80	4600	1450	3140	2700	3800
NWN-600-Z7-S	100	4600	1450	3140	2900	4100
NWN-750-Z7-S	125	4650	1750	3610	3400	5200
NWN-850-Z7-S	150	4650	2250	3740	3800	6200
NWN-1000-Z7-S	175	4650	2250	3910	4000	6500
NWN-1150-Z7-S	200	6200	2250	4020	4800	8500
NWN-1300-Z7-S	225	6200	2250	4020	5000	8800
NWN-1450-Z7-S	250	6250	2500	4280	5400	9700
NWN-1750-Z7-S	300	6250	3000	4380	6100	11200

* 此样本仅包含发行时的数据，请勿直接用于工程施工，具体的资料需在购买时进一步与销售工程师确认。如需多台联合机组，请咨询厂家提供方案。NEWIN 保留更改上表参数或尺寸而不另行通知的权利。
 This table sample only contains the data when issued, please do not use for engineering construction. Please further to confirm with sales and engineer about the detailed data before purchasing. If need multi-cells, please consult the manufacturer to provide the solutions. NEWIN reserves the right to change the parameters or dimensions of the table without notice.

冷却塔项目案例
REFERENCE PROJECTS



NWF series
NWF-1450-Z7-S



中国·广西
Guangxi, China

学校图书馆项目
SCHOOL LIBRARY PROJECT

NWF系列复合流闭式冷却塔

NWF Mixedflow Closed Cooling Tower

PROJECTS >>>



NWF series
NWF-600-Z7-S



哈萨克斯坦
Kazakhstan

GALANZ饮料厂项目
GALANZ BOTTLERS FACTORY PROJECT

冷却塔项目案例
REFERENCE PROJECTS



NWN series
NWN-1750-S-S



中国·江门
Jiangmen, China

大型油漆厂项目
PAINT FACTORY PROJECT

NWN系列逆流闭式冷却塔

NWN Counterflow Closed Cooling Tower

<<< PROJECTS



中国·陕西
Shaanxi, China

NWN series
NWN-2750-ZS

国际钛业项目
INTERNATIONAL TITANIUM INDUSTRY

冷却塔项目案例
REFERENCE PROJECTS

冷却塔项目案例
REFERENCE PROJECTS

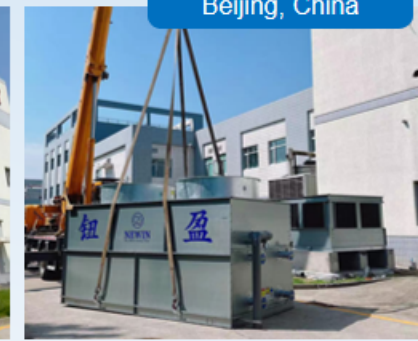
中国·新疆
Xinjiang, China



NWN series
NWN-4360-Z7-S

有机分子肥料工厂项目
ORGANIC MOLECULAR FERTILIZER FACTORY

中国·北京
Beijing, China



NWN series
NWN-1000-ZS

北京同仁堂制药厂项目
TONGRENTANG PHARMACEUTICAL FACTORY

NWN 系列逆流闭式冷却塔

NWN系列逆流闭式冷却塔

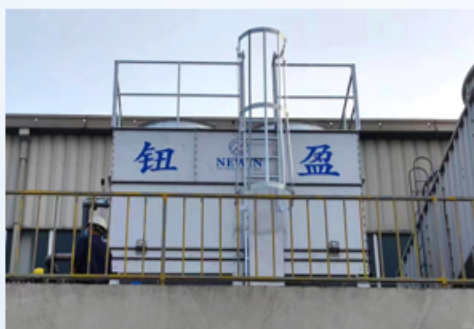
NWN Counterflow Closed Cooling Tower

NWN Counterflow Closed Cooling Tower

PROJECTS >>>

<<< PROJECTS

中国·广州
Guangzhou, China



NWN series
NWN-850-S-S

东风日产广州生产基地项目
GUANGZHOU NISSAN FACTORY PROJECT

中国·佛山
Foshan, China



NWN series
NWN-1450-ZS

制氢生态产业
GREEN HYDROGEN PRODUCTION INDUSTRY

▶ 工艺简述 Technology Description

镀锌钢板覆盖持续升级配方的NWN-Armour阿莫尔防腐涂层，使设备可以接受更高的浓度倍数，降低水质的要求；该涂层在受损情况下很容易修复。

The galvanized steel panel is coated with a special, constantly improving composition that allows the equipment to work with higher concentration cycles and thereby reduce water consumption. The coating is easily repaired if damaged.



▶ 工艺优势 Advantages

- ✓ 防腐升级，延长设备使用寿命
- ✓ 节省运行维护成本
- ✓ 可替代不锈钢的高性价比选择
- ✓ 绿色环保

- ✓ Anti-corrosion Upgrade, Prolong the Service Life of the Equipment.
- ✓ Save Operating and Maintenance Costs.
- ✓ A Cost-effective Alternative to Stainless Steel 304.
- ✓ Green Environmental Protection.



样品名称 Sample	测试项目 Test Item	测试时间 Test Hours	测试前 Before Test	测试结果 Test Result	测试方法/仪器 Test Instrument/ Method
304不锈钢板 SUS304 Plate	中性盐雾试验 NSST (Neutral Salt Spray Test)	650h		样品表面无明显变化 Sample surface showed no obvious change. 	GB/T10125-2021
阿莫尔防腐板 NWN-Armour Coating Plate	中性盐雾试验 NSST	650h		样品表面未见明显腐蚀 Sample surface showed no obvious change. 	GB/T10125-2021
镀锌板 Galvanized Plate	中性盐雾试验 NSST	650h		样品表面有白锈 White rust appears on the sample surface. 	GB/T10125-2021

测试设备
Test Equipment

盐雾试验机 NSST Machine SK-160C(YSJF-26)

备注
Note.

试验溶液 PH值 Test Solution PH: 6.35
沉降盐液 PH值 Sediment Saline Solution PH: 6.71
试验箱内温度 Test Chamber Internal Temp.(°C): 35
盐雾沉降率 Salt Spray Sedimentation Rate mL/(80cm²·h): 1.42

EC技术应用-冷却塔节能升级

EC-TECH Applied in Cooling Tower



冷却塔风机系统采用多台EC离心风机组合设计：

- 能更好均匀地从填料换热层/盘管换热器抽出空气，覆盖范围更广，提高换热效率。
- 离心风机强制驱动可实现远距离送风，特别适用于通风条件差的场所。
- 多台风机并联运行，如果一台风机出现故障，剩余风机可通过提速来弥补气流损失。风机可在塔运行时进行快速更换，冗余优势是EC风机系统对比交流风机系统的明显优势之一。

Cooling tower fan drive system adopts EC technology, designed with multiple EC centrifugal fans:

- Multiple EC centrifugal fans could offer better and uniform air suction out from the infill heat exchange layer/ cooling coil heat exchanger, coverage will be wider and improve thermal efficiency.
- Forced draft fan drive could achieve long distance air offer, special suitable for poor ventilation place.
- Multiple fans in parallel operation, if one fan breaks down, the remaining fans can make up for airflow loss via speed up, and the fast replacement process of fan can be done when the tower is in operation. Redundancy advantage is one of the advantages of EC fan systems compared with AC fan systems.



IE4 等级，节能省电
Excellent Energy Saving ✓

Up to 25000m³/h air volume
& 1600pa static pressure.

风量可达25000m³/h
& 静压可达1600pa.

高效&低噪音
High efficiency & Low noise

免维护
Maintenance Free

EC节能风机系统 EC FAN DRIVE SYSTEM

采用EC外转子直流无刷电机，匹配铝制机翼型无蜗壳叶轮。
Adopts EC external DC brushless motor and is matched with aluminum airfoil plug impeller.

可选产品系列

OTHER PRODUCTS FOR OPTION



NST 横流开式冷却塔
Cross Flow Open Type Cooling Tower



NST-Z7/SS 横流开式全钢板冷却塔
Full Steel Cross Flow Open Type Cooling Tower



NCFN-GS 强制通风干湿冷闭式冷却塔
Forced Draft Dry-Wet Hybrid Closed Type Cooling Tower



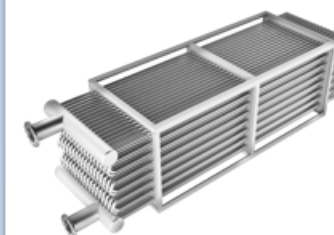
NSH 逆流开式冷却塔
Counter Flow Open Type Cooling Tower



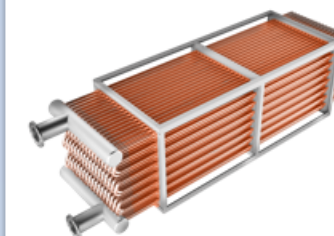
NSH FM 逆流开式全钢板冷却塔
Full Steel Counter Flow Open Type Cooling Tower



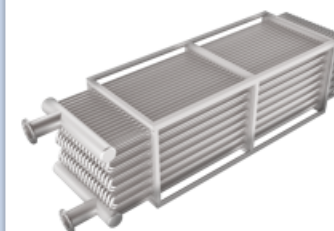
NCF-EC EC风机系统强制通风逆流开式冷却塔
EC Fan System Forced Draft Counter Flow Open Type Cooling Tower



不锈钢 SUS304/316



紫铜 Copper



镀锌钢 Galvanized steel

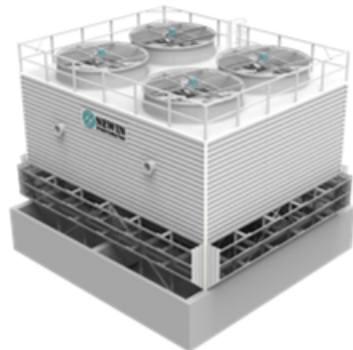
盘管可选材质
COIL PIPES FOR OPTION

可选产品系列

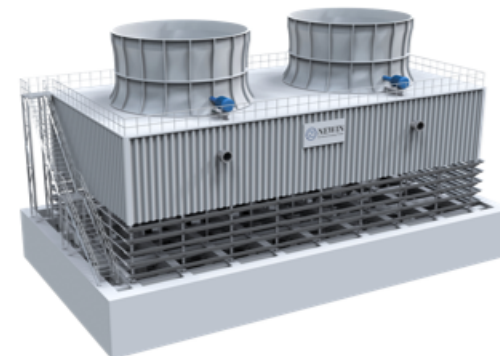
OTHER PRODUCTS FOR OPTION



NST-FRP 全玻璃钢横流开式冷却塔
Full FRP Structure Cross Flow Cooling Tower



NSH-FRP 全玻璃钢逆流开式冷却塔
Full FRP Structure Counter Flow Cooling Tower



NTG 钢架结构工业冷却塔
Steel Structure Industrial Usage Cooling Tower



NTG-W 定制型大型工业冷却塔
Steel Structure Industrial Usage Cooling Tower



NTG-FRP 全玻璃钢结构工业冷却塔
Full FRP Structure Industrial Usage Cooling Tower



NTG-RCC 钢筋混凝土结构工业冷却塔
Reinforced Concrete Constructure Industrial Usage Cooling Tower