

# ROSEMEX

MO-22-1C

开式冷却塔

OPEN TYPE COOLING TOWER

ROD

两面进风

Double side air inlets

ROS

单面进风

Single side air inlet





## 关于ROSEMEX About ROSEMEX

ROSEMEX集团于1969年成立，总部设立在加拿大蒙特利尔，是一家高品质的热交换产品制造商。ROSEMEX的产品包括加热产品、冷却塔、液体冷却器、蒸发冷凝器、专利VAV空气阀、热泵、热回收装置、空气净化装置、屋顶装置、感应装置、冷却器、空气处理装置、风机盘管等，并广泛应用于商业及工业的取暖、通风和空调项目。ROSEMEX所设计和生产的产品拥有先进技术，完美的克服了项目中遇到的任何苛刻条件，在整合能源效率、创新、质量性能和价值方面表现最佳。

The ROSEMEX Group was founded in 1969 and is headquartered in Montreal, Canada which is a manufacturer of high quality heat exchange products. ROSEMEX' s products include heating products, cooling tower, liquid cooling tower, evaporative condenser, Patented VAV Air Valve, heat pump, heat recovery device, air purification device, roof top unit, induction unit, cooler, air handling unit, fan coil unit, etc. It is widely used in commercial and industrial heating, ventilation and air conditioning projects.

ROSEMEX has designed and produced state-of-the-art products to meet the stringent requirement of energy efficiency, innovative, quality and performance.

## 资质证书 Certification

- CTI Cooling Technology Institute
- OHSAS18001-2007   ■ ISO14001-2004   ■ ISO9001-2008



## 关于工厂 About Factory

ROSEMEX制造商生产各类型号的开式冷却塔，应用于民用空调和工业冷却系统。单模块开式冷却塔CTI测试冷却能力由120冷吨到1540冷吨。

ROSEMEX manufactures various models of advance design open type cooling towers for HVAC and industrial applications. The cooling capacity range of single modular open type cooling towers certified by CTI are from 120 RT to 1540 RT.



工厂生产的RCD系列闭式冷却塔和ROD系列开式冷却塔。

Display of RCD series closed circuit cooling towers and ROD series open cooling towers.

ROSEMEX冷却塔风机安装方便，高效，低噪，易于管理。有直联，皮带传动和齿轮箱传动三种方式。

ROSEMEX cooling tower fan assembly consider efficient, energy saving, quiet, easy management and other aspects, so there are direct, belt drive, gear drive three kinds of transmission ways.

## 产品 Product



### ROD 系列 ROD Model

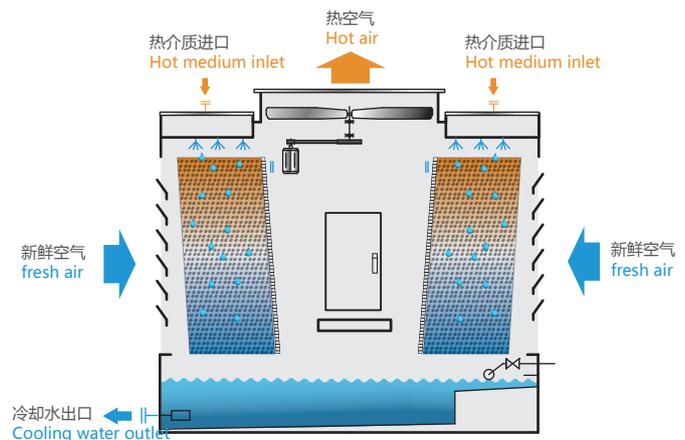
#### 原理 Principle

横流式冷却塔采用紧凑型设计，采用组合式多模块配置设计。

The cross cooling tower is a compact design and is designed with a combined multi-modular configuration.

开式冷却塔包括两种形式：ROS单面进风和ROD双面进风。

The open cooling tower products have two types of designs: model ROS with one side of air inlet and model ROD with two sides of air inlets.



冷却塔的设计着眼于外观, 钢框架, 颜色, 噪声, 风机和空气交换, 更好地与现场环境融合, 满足现场各种要求。

The design of the cooling tower, exterior appearance, steel structure, color, noise, fan and air discharge are designed to meet the project requirements.



冷却塔的设计考虑到更方便的现场安装, 更简单的基础要求, 综合考虑管道设置, 维保, 现场多台连接和控制等多方面因素。ROSEMEX has applied an easy and simple design to suit the overall cooling tower layout, foundation, pipings, maintenance, site connections and remote control requirements.

## 产品综述 Product Overview

### ROSEMEX开式冷却塔

ROSEMEX open type cooling tower

- CTI测试的单模块冷却能力为120冷吨到1540冷吨  
The cooling capacity range of single modular open type cooling towers certified by CTI is from 120 RT to 1540 RT
- 冷却塔主要部件都是钢制，更高强度和更环保  
Major components are manufactured of steel which are more rugged and environmental friendly
- 在工厂完成安装并测试，质量更有保障  
Factory assembled and tested to assure quality
- 模块化设计使运输和现场安装更方便  
Modular design enables easy shipping and site assembly
- 冷却塔自带槽钢底座，大大减少现场基础成本和工作量  
The cooling tower "I" beam steel support base frame would minimize site foundation work



## ROD

- 两面进风  
Double side air inlets
- 风机尺寸更大，风叶更宽，低转速，低噪音  
Larger size, wider blades, low speed and low noise
- 维保更方便  
Easy maintenance
- 更大的塔内空间设计，方便清洗维修  
Larger internal space for easy cleaning



## ROS

- 单面进风的设计，安装更灵活，模块化设计更方便现场安装  
Single side air inlet cooling tower is flexible and is designed with a combined multi-modular configuration
- 维保更方便  
Easy maintenance
- 更大的塔内空间设计，方便清洗维修  
Larger internal space for easy cleaning
- 广泛应用于商业和工业场所，尤其是现场安装条件受限的地方  
It is widely used in commercial and industrial applications, especially where installation conditions are limited

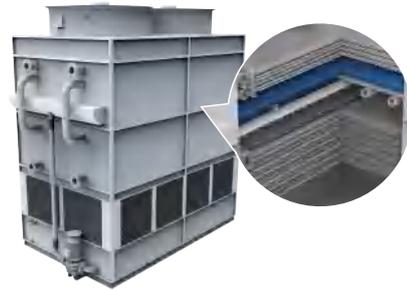
## 其他系列 Other Series

ROSEMEX冷却塔和蒸发冷产品系列

There are different series and models of cooling towers and condensers



RCT闭式逆流冷却塔  
Counter flow closed circuit cooling tower



RCTF干湿两用闭式冷却塔  
Counter flow closed circuit wet & dry cooling tower



RCS闭式侧流冷却塔  
Closed circuit cooling tower with single side air inlet



RCD闭式横流冷却塔  
Closed circuit cooling tower with double side air inlets



ROT开式逆流冷却塔  
Counter flow open type cooling tower



RES侧流蒸发冷  
Evaporative condenser with single side air inlet



RED横流蒸发冷  
Evaporative condenser with double side air inlets



RET逆流蒸发冷  
Counter flow evaporative condenser

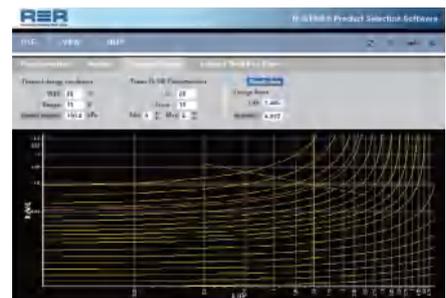
# 热力性能和选型 Thermodynamic Performance and Selection

## 热力性能 Thermal Performance

ROSEMEX承诺所有的冷却塔和蒸发冷产品均满足热力性能测试。  
ROSEMEX assure that all cooling towers and evaporative condenser meet with thermal performance tests.

CTI测试的开式冷却塔单模块冷却能力为120冷吨到1540冷吨。  
The cooling capacity range of single modular open type cooling towers certified by CTI is from 120 RT to 1540 RT.

选型软件用于冷却塔选型，安装，运行和维保。  
The selection software is available for model selection, and also to be used for installation, operation and maintenance support.



## 选型方法 Selection Method

技术参数

Technical parameters:

冷却介质：水

Cooling medium: water

流量：

Water flow: \_\_\_\_\_GPM or (m³/hr)

进水温度：

Inlet water temperature: \_\_\_\_\_°F or (°C)

出水温度：

Outlet water temperature: \_\_\_\_\_°F or (°C)

湿球温度：

Wet bulb temperature: \_\_\_\_\_°F or (°C)

具体请参考CTI官网或者ROSEMEX官网。

Select the cooling tower model from CTI website or ROSEMEX website.

## 主要部件 Major Components

描述 Description	选项-种类/品牌 Options - Type/Brand
冷却塔 Cooling tower	<input type="checkbox"/> ROD-两面进风      ROD - Double side air inlets
	<input type="checkbox"/> ROS-单面进风      ROS - Single side air inlet
	<input type="checkbox"/> ROT-四面进风      ROT - Four side air inlets
冷却塔框架材质 Cooling tower frame material	<input type="checkbox"/> 镀镁铝锌钢      Magnesium Aluminum Zinc Steel
	<input type="checkbox"/> Z700 镀锌钢      G235 (Z700) hot dip galvanized steel
	<input type="checkbox"/> SS304 不锈钢      SUS304 stainless steel
	<input type="checkbox"/> SS316L 不锈钢      316L stainless steel
冷却塔外壳 Cooling tower casing	<input type="checkbox"/> 镀镁铝锌钢      Magnesium Aluminum Zinc Steel
	<input type="checkbox"/> Z700 镀锌钢      G235 (Z700) hot dip galvanized steel
	<input type="checkbox"/> SS304 不锈钢      SUS304 stainless steel
	<input type="checkbox"/> SS316L 不锈钢      316L stainless steel
冷却塔水盘 Cooling tower water pan	<input type="checkbox"/> 镀镁铝锌钢      Magnesium Aluminum Zinc Steel
	<input type="checkbox"/> Z700 镀锌钢      G235 (Z700) hot dip galvanized steel
	<input type="checkbox"/> SS304 不锈钢      SUS304 stainless steel
	<input type="checkbox"/> SS316L 不锈钢      316L stainless steel
风机传动系统 Fan drive system	<input type="checkbox"/> 直联      Direct Driven
	<input type="checkbox"/> 皮带传动      Belt Driven
	<input type="checkbox"/> 齿轮箱传动      Gear Driven
风叶材质 Fan blade material	<input type="checkbox"/> 铝合金中空机翼型叶片      Hollow aluminum alloy
电机品牌 Motor brand	<input type="checkbox"/> ABB <input type="checkbox"/> 霍尼韦尔 Honeywell <input type="checkbox"/> 西门子 Siemens <input type="checkbox"/> 万高 WEG
填料 Fill	<input type="checkbox"/> PVC <input type="checkbox"/> PP
喷淋头 Spray nozzle	<input type="checkbox"/> ABS

设计人员可参考《选型方法》、《主要部件材质清单》设计选型方案。

The designer may refer to selection method, Major components material list for options.

## 组件说明和选项 Component Description and Options

### 冷却塔结构 Structure of Cooling Tower

ROSEMEX冷却塔采用全钢设计, 包括底座, 外壳, 积水盘和布水器等等。标准配置G235镀锌钢板。

ROSEMEX cooling towers are constructed of steel, including the frames, casings pans, and distribution box etc. Steel is G235.



#### 框架 Frame

框架由双折钢制成, 并用镀锌螺栓组装, 无需焊接以承受60 psf的风荷载。

Frame is made of double folded steel and assembled with galvanized bolts without welding to withstand 60 psf wind load.

#### 外壳 Casing

外壳由钢板制成, 并用镀锌螺栓组装无需焊接。

Casing is made of steel that assembled with galvanized bolts without welding.

#### 冷水盘 Cold Water Basin

冷却塔积水盘采用L梯形设计, 减少运行积水重量, 减少藻类生长。

The sloped basin design reduces operating weight, avoids the formation of algae fungus in the pan and is equipped with L shape drain outlet at the bottom of the concave basin pan.

#### 底座 Tower Base Support

冷却塔底座采用镀锌钢, 减少现场基础成本和工作量。

The base of the cooling tower is made of galvanized steel to reduce the foundation cost and workload on site.

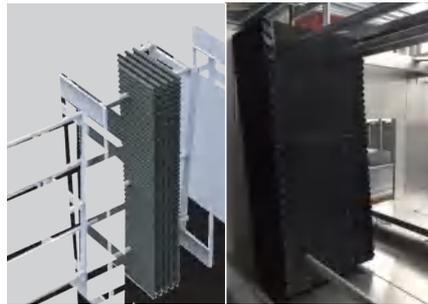
备注: 所有钢件标配为镀锌钢, 可选不锈钢和镀镁铝锌钢

All steel parts are standard galvanized steel and stainless steel and magnesium aluminum zinc steel is optional

## 喷淋布水系统 Water Spray Distribution System

喷淋系统包括：进水阀，布水管，喷淋头，补水，排污，水处理等等。

Water spray distribution system consists of water inlet pipe valve, water distribution pipes, pre-cooling fill, nozzles, make up water supply device, drainage device, water treatment, etc.



### 布水系统 Water Spray Distribution System

布水盒常规配置Z700镀锌钢板，可选304不锈钢材质和镀镁铝锌钢平衡水箱式的布水方式，布水压力更稳定，淋水更均匀。

Water spray distribution system utilizes self balance buffer tank to provide an evenly pressurized uniform water distribution by gravity. The tank material is G235(Z700) hot dip galvanized steel, and 304 stainless steel and magnesium aluminum zinc steel is optional.

### 进水管材质 Inlet Pipe Material

热浸锌钢管，304不锈钢管可选。

Hot dip galvanized steel pipe, and 304 stainless steel is optional.

### 喷淋头 Nozzle

ABS材质，便于更换和调整角度。

The ABS nozzle can be replaced during operation, and the spray angle can be adjusted.

### 填料 Fill

填料采用PVC原生料，薄膜式斜波纹交错型，散热效率更高，整体式布局更合理，填料可拆卸清洗，维护更方便，使喷淋水损失率控制在0.001%，有两种填料可选择：

Fills are designed with the most suitable flame retardant PVC material to give the best thermal performance taking into consideration the ventilation, water quality and maintenance conditions. Fills are suspended on galvanized steel pipes for easy maintenance and effective evaporation. The integral fill and louver along with a double pass drift eliminator reduce drift loss to less than 0.001%. There are two types of fills:

A：标准PVC填料，可耐温60℃    B：高温PP填料，可耐温105℃  
A：Standard PVC fill, good for    B：High temperature PP fill, good  
temperature of of 60℃    for temperature of 105℃

### 补水 溢流 排污系统 Make up Water and Overflow

补水采用浮球阀控制，冷却水盘阶梯式设计，利于排污。

There is a make up water float valve and an overflow connection. The bottom of basin is sloped and has to bleed off periodically to reduce the mineral content.

## 风机系统 Fan Assembly

风叶采用铝合金中空机翼型叶片，风叶角度可调。

Fan blade is aluminum alloy hollow airfoil blade and the blade angle index can be adjusted if needed.



### 风叶 FanBlade

风叶采用铝合金中空机翼型叶片，风叶角度可调。

The Fan blade is an aluminum alloy hollow airfoil blade and the blade angle index can be adjusted if needed.

### 冷却塔风机分类

#### Classification of Fan for Cooling Tower

ROS系列（风机直径 $\leq 2000\text{mm}$ ）使用直联传动，单面进风，抽风型，免维护轴承

Series ROS (fan diameter $\leq 2000\text{mm}$ ) fan assembly is direct drive, single air inlet, top air discharge, with built-in maintenance free bearing

ROD系列（风机功率 $\leq 30\text{KW}$ ），标配轻型齿轮箱传动，可选皮带传动

Series ROD (fan power  $\leq 30\text{KW}$ ), light gear box drive is standard, belt drive is optional

ROD系列（风机功率 $\geq 37\text{KW}$ ），标配重型齿轮箱传动，可选皮带传动

Series ROD (fan power  $\geq 37\text{KW}$ ), heavy-duty gear box drive is standard, belt drive is optional

### 风机电机 Motor for Fan Assemblies

■ 风机电机采用冷却塔专用全封闭型电机（TEFC或者TEAO）  
Motors for fan assemblies are fully enclosed outdoor type (TEFC or TEAO) suitable for hot and humid environment

■ 电机基于国标JIS-C4210，防护等级IP55，绝缘等级F  
Motor is base on JIS-C4210 Standards, motor protection class IP55, insulation class F

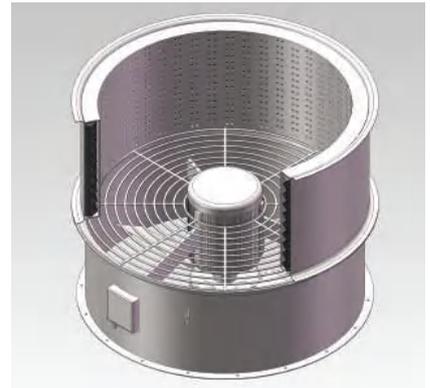
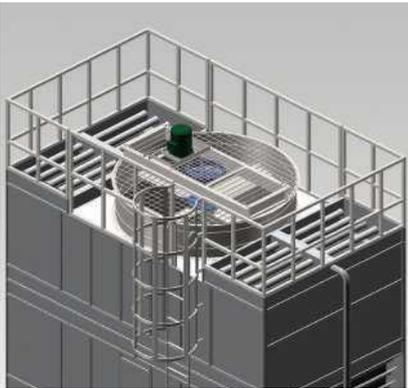
■ 电机设计基于1.15安全系数，免维护轴承  
Motor design is base on 1.15 safety factor with built-in maintenance free bearings

■ 可选项：变频电机/高效电机/双速电机  
Options: variable frequency drive motor, high efficient motor, multi speed motor

## 选配件 Options

选配件主要包括以下内容

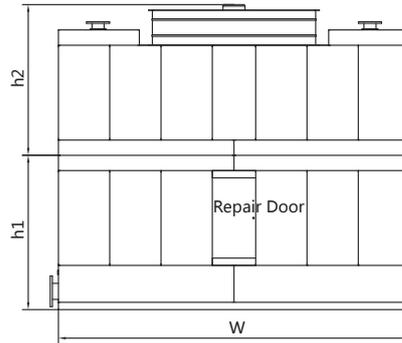
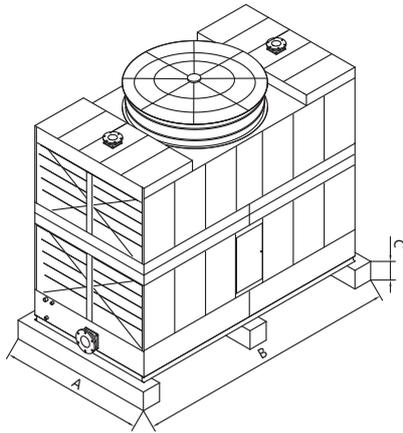
Options are available for the following items



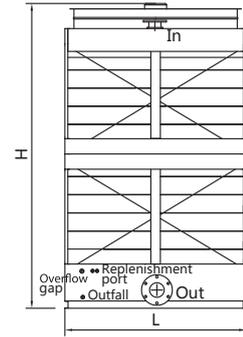
- 带安全笼的爬梯, 围栏, 检修平台, 标准配置热浸锌钢, 不锈钢材质  
Ladder with safety cage, handrail guard and platform, materials to be galvanized steel as standard and stainless steel as optional
- 积水盘电加热  
Electric heater for the pan
- 电子水位仪  
Electric level sensor
- 电控箱  
Electric control panel

- 冷却塔噪声主要受到冷却塔设计及尺寸, 风机, 风叶类型, 风压, 换气面积, 电机转速, 消音, 换热区域, 喷淋区域等等影响。我们可以很多方式来降低噪声满足现场要求  
Noise is affected by the design and tower size, fan discharge, type of fan blade, air pressure drop, fan discharge area, fan speed, silencers, heat exchanger area, spray area, etc. There are ways to minimize noise to meet the requirements
- 电控箱主要控制电机, 检测水温, 水位; 可选显示屏, PLC触摸屏, 变频控制等  
Control panel is available to control motor, water temperature, water level to achieve operation efficiency; Remote monitoring, PLC intelligent centralized control and variable frequency control are optional

# ROD 数据表 ROD Engineering Data



侧视图1



侧视图2

型号 Model	流量 Flow m <sup>3</sup> /h 37 -32°C Δt=5°C	风机参数 Fan		进口口径 Inlet DN(mm)	出口口径 Outlet DN(mm)	外型尺寸 (mm) Outline Dimension					运输重量 Shipping Weight kg	运行重量 Operating Weight kg
		功率 kw Power KW	风量 m <sup>3</sup> /s AirflowRate m <sup>3</sup> /s			长 mm	宽 mm	高 mm	上箱 mm	下箱 mm		
ROD-821D	84	2.2	11	DN100×2	DN150×1	2250	3792	2992	2692	/	1680	3880
ROD-821P	93	3	14	DN100×2	DN150×1	2250	3792	2992	2692	/	1690	3890
ROD-821G	104	4	16	DN100×2	DN150×1	2250	3792	2992	2692	/	1700	3900
ROD-822D	106	3	16	DN100×2	DN150×1	2250	3792	3492	3192	/	1800	4000
ROD-822P	118	4	16	DN100×2	DN150×1	2250	3792	3492	3192	/	1830	4030
ROD-822G	132	5.5	25	DN100×2	DN150×1	2250	3792	3492	3192	/	1840	4040
ROD-832D	148	5.5	29	DN125×2	DN200×1	2476	4792	3492	3192	/	2200	5550
ROD-832P	160	7.5	36	DN125×2	DN200×1	2476	4792	3492	3192	/	2250	5600
ROD-832G	182	11	44	DN125×2	DN200×1	2476	4792	3492	3192	/	2270	5620
ROD-842D	210	7.5	40	DN125×2	DN200×1	2690	4792	3492	3192	/	2450	6100
ROD-842P	240	11	50	DN125×2	DN200×1	2690	4792	3492	3192	/	2480	6130
ROD-842G	265	15	51	DN125×2	DN200×1	2690	4792	3492	3192	/	2510	6160
ROD-852D	228	7.5	41	DN150×2	DN250×1	2976	5220	3492	3192	/	3030	7130
ROD-852P	258	11	51	DN150×2	DN250×1	2976	5220	3492	3192	/	3050	7150
ROD-852G	288	15	55	DN150×2	DN250×1	2976	5220	3492	3192	/	3100	7200
ROD-854D	349	15	59	DN150×2	DN250×1	2976	5220	5106	2551	2555	4150	8350
ROD-854P	377	18.5	62	DN150×2	DN250×1	2976	5220	5106	2551	2555	4180	8380
ROD-854G	398	22	75	DN150×2	DN250×1	2976	5220	5106	2551	2555	4230	8430



型号 Model	流量 Flow m <sup>3</sup> /h37 -32°C Δt=5°C	风机参数 Fan		进口口径 Inlet	出口口径 Outlet	外型尺寸 (mm) Outline Dimension					运输重量 Shipping Weight kg	运行重量 Operating Weight kg
		功率 kw Power	风量 m <sup>3</sup> /s AirflowRate			长	宽	高	上箱	下箱		
		KW	m <sup>3</sup> /s									
ROD-873D	385	15	60	DN125×4	DN250×1	3620	6396	4150	2067	2083	5120	9750
ROD-873P	410	18.5	66	DN125×4	DN250×1	3620	6396	4150	2067	2083	5150	9890
ROD-873S	438	22	77	DN125×4	DN250×1	3620	6396	4150	2067	2083	5220	10400
ROD-873U	485	30	86	DN125×4	DN250×1	3620	6396	4150	2067	2083	5360	10800
ROD-873L	518	37	93	DN125×4	DN250×1	3620	6396	4150	2067	2083	5430	11100
ROD-873G	554	45	106	DN125×4	DN250×1	3620	6396	4150	2067	2083	5510	11600
ROD-874P	502	22	88	DN125×4	DN300×1	3620	6396	5106	2551	2555	5950	12500
ROD-874U	557	30	94	DN125×4	DN300×1	3620	6396	5106	2551	2555	6050	12800
ROD-874L	598	37	102	DN125×4	DN300×1	3620	6396	5106	2551	2555	6130	13100
ROD-874G	637	45	108	DN125×4	DN300×1	3620	6396	5106	2551	2555	6210	13400
ROD-875P	615	30	97	DN150×4	DN300×1	3620	6396	6455	2551	3904	7010	14100
ROD-875U	660	37	105	DN150×4	DN300×1	3620	6396	6455	2551	3904	7080	14300
ROD-875L	701	45	111	DN150×4	DN300×1	3620	6396	6455	2551	3904	7130	15000
ROD-875G	752	55	122	DN150×4	DN300×1	3620	6396	6455	2551	3904	7250	15400
ROD-893D	425	15	79	DN125×4	DN250×1	4250	7316	4150	2067	2083	6490	14000
ROD-893P	456	18.5	86	DN125×4	DN250×1	4250	7316	4150	2067	2083	6520	14300
ROD-893S	486	22	91	DN125×4	DN300×1	4250	7316	4150	2067	2083	6560	14600
ROD-893U	536	30	101	DN125×4	DN300×1	4250	7316	4150	2067	2083	6790	15000
ROD-893L	575	37	105	DN125×4	DN300×1	4250	7316	4150	2067	2083	6860	15300
ROD-893G	610	45	118	DN125×4	DN300×1	4250	7316	4150	2067	2083	6960	15500
ROD-894P	618	30	104	DN150×4	DN350×1	4250	7316	5106	2551	2555	7900	17300
ROD-894U	660	37	108	DN150×4	DN350×1	4250	7316	5106	2551	2555	7980	17450
ROD-894L	705	45	120	DN150×4	DN350×1	4250	7316	5106	2551	2555	8060	18600
ROD-894G	758	55	136	DN150×4	DN350×1	4250	7316	5106	2551	2555	8210	17200
ROD-895P	735	37	119	DN200×4	DN400×1	4250	7316	6455	2551	3904	9100	19000
ROD-895U	780	45	137	DN200×4	DN400×1	4250	7316	6455	2551	3904	9200	19500
ROD-895L	840	55	155	DN200×4	DN400×1	4250	7316	6455	2551	3904	9500	20000
ROD-895G	932	75	176	DN200×4	DN400×1	4250	7316	6455	2551	3904	9750	20500

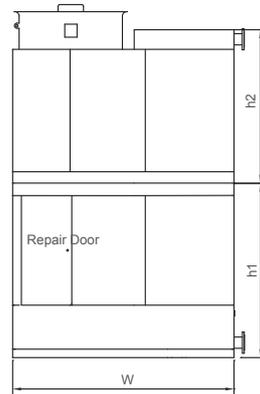
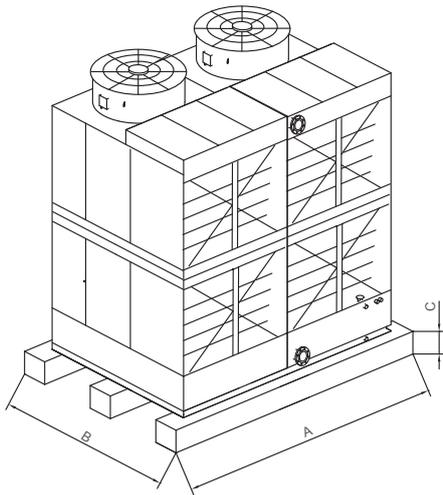
#### 备注

- 1、型号说明:ROD-821D  
R: 制造商                      O: 开式  
D: 双面进风                      821D: 机型代码
- 2、参考工况: 流量按湿球温度28°C计算
- 3、CTI认证机型适用于为单塔, 也适用于多台组合塔
- 4、更多信息可参考配套版本软件

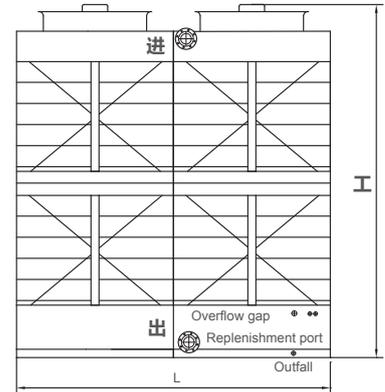
#### NOTES

- 1、Nomenclature: ROD-821D  
R: Manufacturer                      O: Open type  
D: Double side air inlets                      821D: Model code
- 2、The Flow Rate is based on the Wet Bulb Temperature 28°C
- 3、The above CTI certificates are for single module and can apply to multiple modules
- 4、Refer to selection software for more information

## ROS 数据表 ROS Engineering Data



侧视图1



侧视图2

型号 Model	流量 Flow m <sup>3</sup> /h37 -32°C Δt=5°C	风机参数 Fan		进口口径 Inlet DN(mm)	出口口径 Outlet DN(mm)	外型尺寸 (mm) Outline dimension					运输重量 Shipping Weight kg	运行重量 Operating Weight kg
		功率 kw Power KW	风量 m <sup>3</sup> /s Airflow Rate m <sup>3</sup> /s			长 mm	宽 mm	高 mm	上箱 mm	下箱 mm		
ROS-713D	56	2.2	10	DN100×1	DN100×1	1850	2250	4150	2067	2083	1180	2350
ROS-713P	62	3	11	DN100×1	DN100×1	1850	2250	4150	2067	2083	1230	2480
ROS-713G	69	4	15	DN100×1	DN100×1	1850	2250	4150	2067	2083	1290	2540
ROS-723D	66	3	15	DN125×1	DN125×1	1850	2610	4150	2067	2083	1410	2850
ROS-723P	72	4	16	DN125×1	DN125×1	1850	2610	4150	2067	2083	1500	2950
ROS-723G	83	5.5	17	DN125×1	DN125×1	1850	2610	4150	2067	2083	1590	3050
ROS-734D	79	4	17	DN150×1	DN150×1	1850	2896	5106	2551	2555	1600	3100
ROS-734P	90	5.5	20	DN150×1	DN150×1	1850	2896	5106	2551	2555	1700	3300
ROS-734G	100	7.5	21	DN150×1	DN150×1	1850	2896	5106	2551	2555	1820	3450
ROS-744D	112	5.5	25	DN200×1	DN200×1	2250	3540	5106	2551	2555	2050	4500
ROS-744P	125	7.5	31	DN200×1	DN200×1	2250	3540	5106	2551	2555	2200	4600
ROS-744G	143	11	37	DN200×1	DN200×1	2250	3540	5106	2551	2555	2420	4800

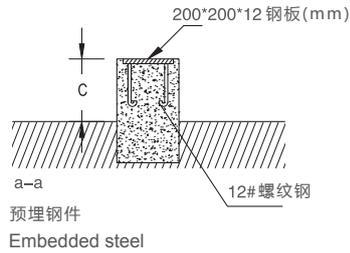
### 备注

- 1、型号说明:ROS-713D  
R:制造商 O:开式  
S:单面进风 713D:机型代码
- 2、参考工况：流量按湿球温度28°C计算
- 3、CTI认证机型适用于为单塔，也适用于多台组合塔
- 4、更多信息可参考配套版本软件

### NOTES

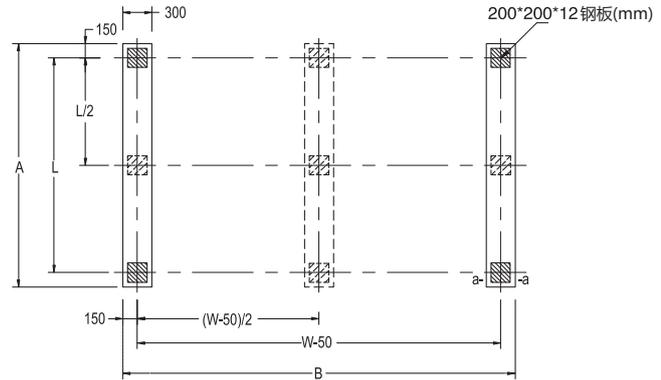
- 1、Nomenclature:ROS-713D  
R:Manufacturer O:Open type  
S:Single side air inlet 713D:Model code
- 2、The Flow Rate is based on the Wet Bulb Temperature 28°C
- 3、The above CTI certificates are for single module and can apply to multiple modules
- 4、Refer to selection software for more information

## 承重基础说明 Instructions For Tower Foundation



单台设备长度、宽度 < 2896 mm 的常规基础。  
The normal tower foundation layout for single module tower with length & width less than 2896 mm.

单台设备长度、宽度 ≥ 2896 mm 增加的基础。  
The tower foundation layout for single module tower with length & width equal to or larger than 2896 mm.



L - 冷却塔长度 ; W - 冷却塔宽度      A - 基础外形长度 ; B - 基础外形宽度  
L - Tower length ; W - Tower width      A - Foundation length ; B - Foundation width

## ROD 型承重基础说明 Instructions for tower foundation ROD-type

型号 Modle	外形尺寸 (mm) Outline Dimension		基础尺寸 (mm) Foundation Size			进口口径 Inlet DN(mm)	出口口径 Outlet DN(mm)	补水口 Replenishment DN(mm)	排污口 Drain DN(mm)	溢流口 Overflow DN(mm)
	长L	宽W	A	B	C					
ROD-82 series	2250	3792	2550	4042	≥350	100 (2)	150(2)	25	50	50
ROD-83 series	2476	4792	2776	5042	≥500	125 (2)	200(1)	25	50	50
ROD-84 series	2690	4792	2990	5042	≥500	125 (2)	200(1)	25	50	50
ROD-85 series	2976	5220	3276	5470	≥500	150(2)	250(1)	25	50	50
ROD-873 series	3620	6396	3920	6646	≥800	125(4)	250(1)	40	65	65
ROD-874 series	3620	6396	3920	6646	≥800	125(4)	300(1)	40	65	65
ROD-875 series	3620	6396	3920	6646	≥800	150(4)	300(1)	40	65	65
ROD-893D/P series	4250	7316	4550	7566	≥800	125(4)	250(1)	40	65	65
ROD-893S/U/L/G series	4250	7316	4550	7566	≥800	125(4)	300(1)	40	65	65
ROD-894 series	4250	7316	4550	7566	≥800	150(4)	350(1)	40	65	65
ROD-895 series	4250	7316	4550	7566	≥800	200(4)	300(1)	40	65	65

## ROS 型承重基础说明 Instructions for tower foundation ROS-type

型号 Modle	外形尺寸 (mm) Outline Dimension		基础尺寸 (mm) Foundation Size			进口口径 Inlet DN(mm)	出口口径 Outlet DN(mm)	补水口 Replenishment DN(mm)	排污口 Drain DN(mm)	溢流口 Overflow DN(mm)
	长L	宽W	A	B	C					
ROS-71 series	1850	2250	2150	2500	≥350	100(1)	100(1)	25	50	50
ROS-72 series	1850	2610	2150	2860	≥350	125(1)	125(1)	25	50	50
ROS-73 series	1850	2896	2150	3146	≥350	150(1)	150(1)	25	50	50
ROS-74 series	2250	3540	2550	3790	≥500	200(1)	200(1)	25	50	50

### 备注

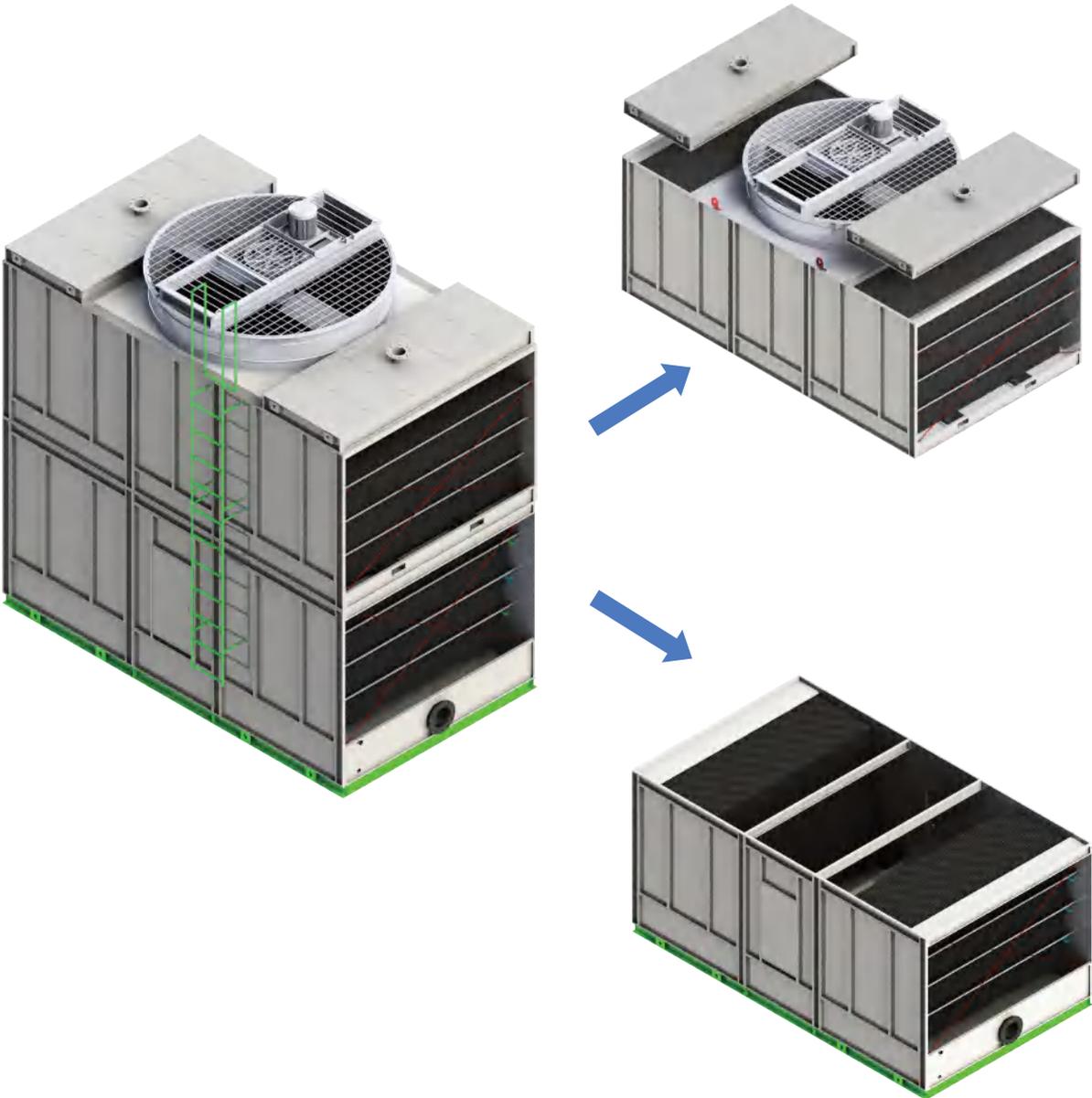
1. 冷却塔基础可采用混凝土条形或墩状基础
2. 单台设备长度、宽度 ≥ 2896 mm，应增加适当支撑
3. 设备基础必须保证上表面水平，公差 < ±5mm
4. 设备进风面距阻挡物距离请联系 ROSEMEX 销售工程师
5. C 尺寸是便于母管使用的一般要求，如台数增加或现场需调整方案请咨询我公司

### NOTES

1. Cooling tower foundation can be concrete planks or piers
2. For single module tower with length & width equal to or larger than 2896 mm, additional supports should be added
3. The surface of the foundation has to be level with a tolerance < ±5 mm
4. Please contact ROSEMEX Sales Engineer for the distance between the air inlet surface of the equipment and the blockage
5. Dimension C is to allow for major pipe installation. Consult the factory if there is any need for multiple units

# 冷却塔组装说明 Instruction For Cooling Tower Assembling

按照下图组装组件  
Assemble the components according to the pictures shown below.



## 应在设计和选择阶段予以考虑 Should be Considered During Design and Selection Stage

### 选址 Site Selection

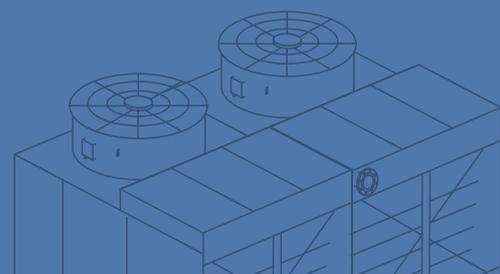
- 避免将冷却塔安装在炎热、潮湿和多尘的地区  
Avoid installing the cooling towers in hot and humid and dusty area
- 冷却塔应安装在空旷区域，以避免声音反射  
Cooling tower should be installed in open field area to avoid the reflection of sound
- 冷却塔应安装在通风良好的区域。进风口与任何障碍物之间应保持一定的距离，以确保新鲜空气进入塔内，避免短路，这会影响冷却塔的热性能。入口侧和任何障碍物之间允许的最小距离取决于塔的类型和数量。有关详细信息，请联系我们的工程应用团队  
Cooling towers should be installed in a well-ventilated area. Certain distances should be maintained between the air inlet and any obstructions to ensure that fresh air enters the tower to avoid short circuit, which will impact the thermal performance of the cooling tower. The minimum distance allowed between the inlet side and any obstructions depends on the tower type and the quantity. For detailed information, please contact our engineering application team

### 安装和管道配置 Installation and Piping Configuration

- 冷却塔应水平放置，避免水分布不均匀，影响冷却性能  
The cooling towers should be placed horizontally and level to avoid uneven water distribution which will affect the cooling performance
- 避免在钢塔上使用气焊和电焊破坏涂层  
Avoid the use of gas and electrical welding on the steel tower to avoid damaging the coating
- 水管应支承在管架上，不能支承在冷却塔上  
Water pipe should be supported on pipe rack and not on the cooling tower
- 多台冷却塔安装时，连接管应逆流  
For multiple cooling tower installations, the connecting pipe should be in reverse return
- 所有电气布线孔应密封，以防水  
All electrical wiring holes should be seal tight for water proof

### 运行、维护管理 Operation, Maintenance Management

- 配水系统和过滤器的残渣应定期清洗，以保证配水系统的平稳运行。冷水盆会滋生藻类细菌，有杂质沉淀，需要定期清洗，保护钢材不受腐蚀  
The residue of the water distribution system and the filter should be cleaned regularly to ensure the smooth operation of the water distribution system. The cold water basin can breed algal bacteria and have precipitation of impurities, regular cleaning is required to protect the steel against corrosion
- 传动带过紧会导致轴承损坏，如果皮带松动会导致皮带打滑，降低耐久性  
Over-tightening of the transmission belt can result in bearing damage, If the belt is loose this will cause the belt to slip which will reduce durability
- 排放管道内的水，并排放冷水盆，以防止冬天结冰  
Discharge the water in the pipes and drain the cold-water basin to prevent freezing in the winter
- 日常运行时，注意冷水盆内的水位，并检查所有运行部位  
For daily operation, pay attention to the water level in the cold-water basin and inspect all running parts
- 新皮带运行7~10天后，会逐渐松动，应重新调整  
After a new belt, running for 7~10 days, it will become loose gradually and should be readjusted
- 如果冷却塔必须长时间关闭，松开皮带，才能避免不必要的过度张力  
If cooling tower has to be shut down for a long period, loosen the belt to avoid unnecessary tension



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