



广州特域机电有限公司

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teyuchillers

特域冷水机微信服务平台
TEYUCHILLER SERVICE WECHAT ID



CW-3000 Series

S&A
特域机电



工业冷却机 使用安装说明

CW-3000 Series

INDUSTRIAL COOLER **USER MANUAL**

感谢您购买广州特域机电有限公司的产品，请在使用前仔细阅读使用安装说明书，并妥善保管。

本使用安装说明书并非质量保证书，对印刷错误的更正，所述信息的修改，以及产品的改进，均由广州特域机电有限公司随时做出解释，恕不预先通知，修正内容将编入再版使用安装说明书中。

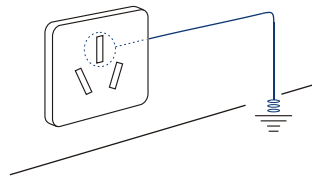
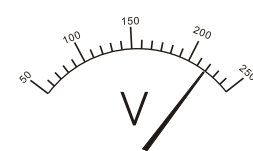
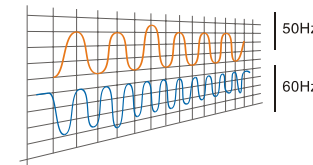
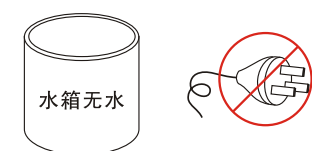
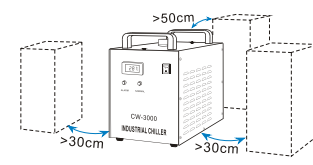
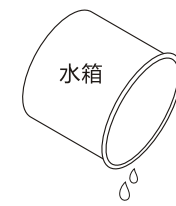
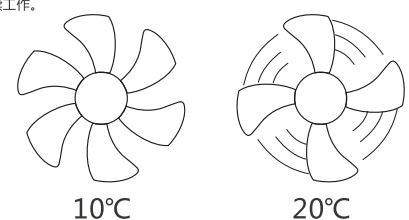


**本产品为工业设备
请勿让非专业人士操作！**

目录

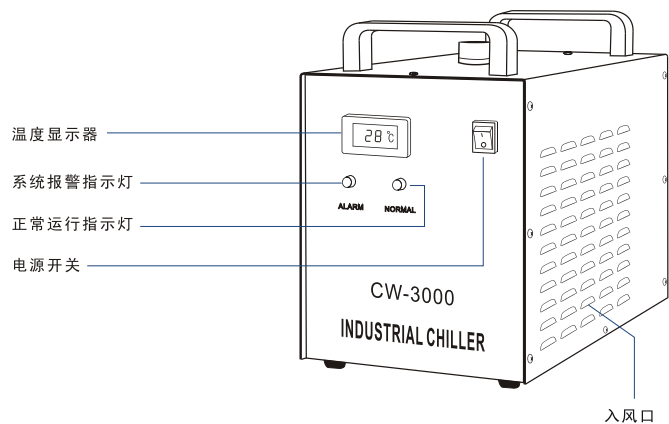
使用注意事项	1
外形及部件名称	2
安装说明	3
流量报警与输出端口	4
维护保养	5
技术参数	5
简单故障处理	6
装箱清单	6

使用注意事项

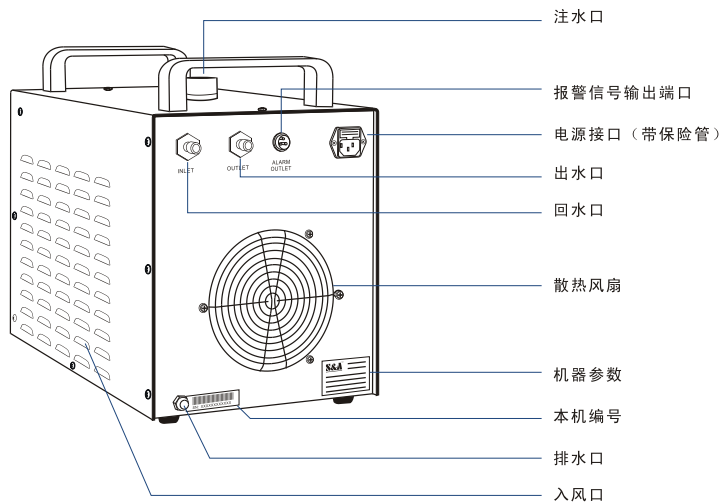
<p>1 请确保电源插座接触良好并且地线可靠接地！</p> 	<p>2 请确保冷水机的工作电压稳定、正常！</p> <p>由于制冷压缩机对电源电压比较敏感，我公司标准产品的正常工作电压为200-250V(110V机型为100-130V)。如果确实需要更宽的工作电压范围，可以另行定制。</p> 
<p>3 电源频率不匹配会导致机器损坏！</p> <p>请根据实际情况，使用50Hz或60Hz的机型。</p> 	<p>4 为保护循环水泵，严禁无水运行！</p> <p>新机装箱前都排空了储水水箱，请确保水箱注入足够水后再开机，否则水泵极易损坏。</p> 
<p>5 请确保冷水机入风、出风通道顺畅！</p> <p>冷水机后面的出风口距离障碍物要留有50cm以上的距离，侧面的入风口离障碍物要求距离在30cm以上。</p> 	<p>6 在长期不用或运输时必须排空冷却水</p> 
<p>7 为保护发热器件，冷却机在水温较低时(约10°C)，散热风扇会暂停工作，而当水温回升到较高时(约20°C)，散热风扇将继续工作。</p> 	

外形及部件名称

机身正面



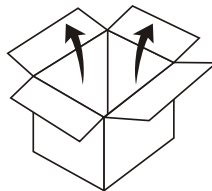
机身背面



安装说明

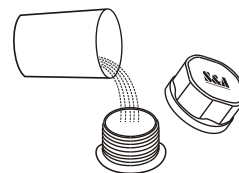
工业冷水机安装使用非常简易
新机首次使用可以按以下步骤进行:

1



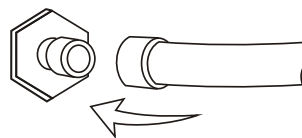
打开包装，检查机器是否完好，附件是否齐备

2



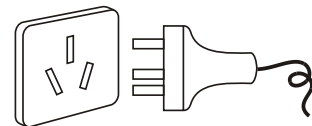
拧开机器注水口加入冷却水
(注意不要让水溢出)

3



根据设备情况接好
出水管、入水管

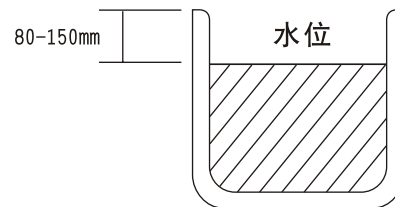
4



插上电源线，打开电源开关
(严禁无水开机)

(1) 打开电源开关后，冷水机循环泵就开始工作了。新机第一次开机时管路中会有较多的气泡导致机器偶尔流量报警，运行数分钟后就会恢复正常。
(2) 第一次开机后，必须马上检查水管管路有无漏水。

5



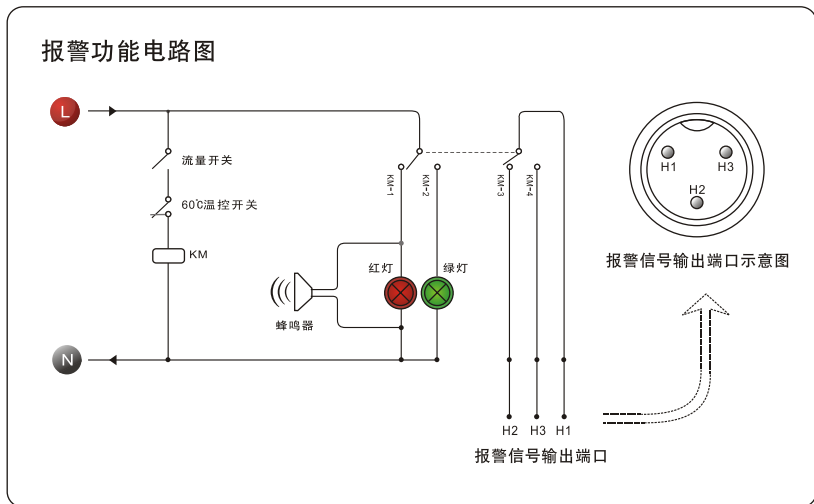
检查水箱水位

(以水面距注水口距离80-150mm为宜)

流量报警与输出端口

为了保证在冷却水循环出现异常情况时不影响设备的安全，CW-3000系列冷却机设有低流量报警保护功能。

流量报警输出端口及接线示意图



报警功能说明

冷却水循环回路报警原因与工作状态表

系统指示 工作状态	绿色 指示灯	红色 指示灯	蜂鸣器	输出端口 H1、H2	输出端口 H1、H3
系统工作正常	● 发光	⊗ 熄灭	🔇 不发声	🔴 断路	🟢 导通
冷却水循环回路堵塞	⊗ 熄灭	● 发光	🔊 发声	🟢 导通	🔴 断路
冷却水温度超过60度	⊗ 熄灭	● 发光	🔊 发声	🟢 导通	🔴 断路
循环水泵故障	⊗ 熄灭	● 发光	🔊 发声	🟢 导通	🔴 断路
缺水报警	⊗ 熄灭	● 发光	🔊 发声	🟢 导通	🔴 断路
电路故障	⊗ 熄灭	⊗ 熄灭	🔇 不发声	🟢 导通	🔴 断路
供电中断	⊗ 熄灭	⊗ 熄灭	🔇 不发声	🟢 导通	🔴 断路

注：流量报警端口连接机内继电器一组常开、常闭触点。要求工作电流小于5A，工作电压小于300V。

维护保养

- 1、冷却机在长期使用后建议开盖清理灰垢，以保证散热性能良好。
- 2、寒冷地区应该使用无腐蚀性的防冻液。



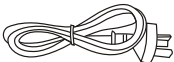


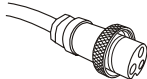
技术参数

型 号	CW-3000AG	CW-3000DG	CW-3000AF	CW-3000DF	CW-3000AK	CW-3000DK
工作电压	AC 1P 220V	AC 1P 110V	AC 1P 220V	AC 1P 110V	AC 1P 220V	AC 1P 110V
工作频率	50/60Hz					
工作电流	0.45A	0.9A	0.45A	0.9A	0.5A	1.0A
散 热 量	50W/°C					
水箱容量	9L					
出入水口	外径10mm铜咀		直径8mm快速接头			
最大扬程	10M			70M		
最大流量	10 L/min				2 L/min	
安全保护	流量报警				流量报警	
净 重	9.5Kg			12Kg		
毛 重	12Kg			14.5Kg		
机器尺寸	49 X 27 X 38cm (长 X 宽 X 高)					
包装尺寸	59 X 39 X 48cm (长 X 宽 X 高)					

简单故障处理

故障现象	故障原因	处理方法
开机不通电	电源线没有插到位	把电源线插到位
	保险管熔断	更换机器后面电源接口内保险管
流量报警(面板红灯亮) 用水管直接连接出水口、 入水口, 没有水流	储水箱水位太低	加水并检查管路渗漏情况
与设备连接使用时流量报警(面 板红灯亮),但用水管直接连接 出水口、入水口,有水流不报警	循环水管路堵塞	检查循环水管路
水温超高	冷水机通风不好	改善通风条件
	热负荷超标	降低热负荷或选用其它机型
开机后风扇不转	水温低于20度	正常现象, 无需处理
加水或换水后开机报警	电路进水	自然晾干或开盖吹干
	水泵干转损坏	更换或维修水泵, 严禁无水开机
排水口排水缓慢	注水口没有打开	打开注水口

装箱清单

1 工业循环冷水机一台 	2 使用说明书一份 	3 电源线一条 	4 连接软管一条 
5 密封箍两个(选配) 	6 报警信号输出端插头一个 	7 备用保险管一个 (装在电源接口备用保险管座内) 	

Thank you for using the machine from
GUANGZHOU TEYU ELECTROMECHANICAL CO., LTD.
Please read the installation instructions carefully before
installing and operating and keep it properly.
This installation instructions is not a quality assurance.
GUANGZHOU TEYU ELECTROMECHANICAL CO., LTD.
Reserves the right to the interpretation of correction of
typographical errors, improper mentioned
information and product improvement.
The amended content will be reprinted in installation
instructions without notice in advance.



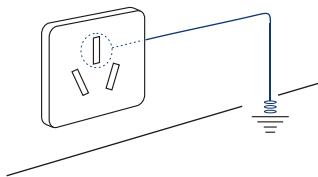
**THIS PRODUCT IS INDUSTRIAL EQUIPMENT.
PROFESSIONAL USE ONLY!**

CONTENTS

CAUTIONS	8
CONTOUR AND PARTS INTRODUCTION	9
INSTALLATION	10
FLOW ALARM AND OUTPUT PORTS	11
MAINTENANCE	12
SPECIFICATIONS	12
SIMPLE TROUBLESHOOTING	13
PACKING LIST	13

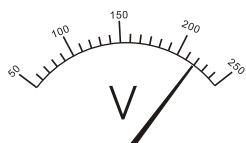
CAUTIONS

- 1** Please ensure that the power supply and electrical outlet are in good contact and the earth wire must be firmly grounded!



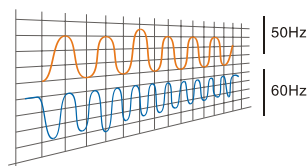
- 2** Please make sure there is stable and normal voltage for the working chiller!

As the refrigeration compressor is more sensitive to the power supply and voltage, so the operating voltage of our standard product is of 200 ~ 250V (110V model is of 100 ~ 130V). If you do need a wider operating voltage range, customization is available for us.



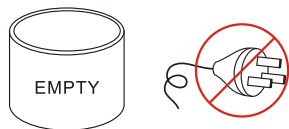
- 3** Unmatched power frequency can cause the chiller damage!

Please choose model of 50Hz or 60Hz according to actual circumstance.



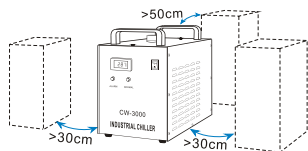
- 4** To protect the pump, it's strictly forbidden to run the chiller without water in the storage water tank!

The new machine is packed after draining whole water in the tank, so please make sure the tank has water inside before machine starting, otherwise it's easily to have the pump damaged. To drain through circulating pump is strictly prohibited!

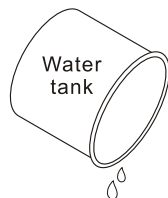


- 5** Please be sure that the air inlet and air outlet are in good ventilation!

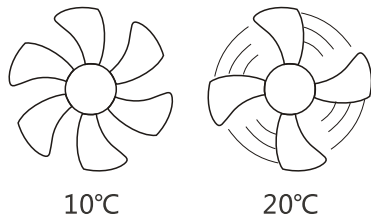
There must be at least 50cm from obstructions to the air outlet which is in the back of the chiller, and should leave at least 30cm between obstructions and the side air inlet.



- 6** The cooling water must be drained if the cooler is out of use for long time Or before being transported.

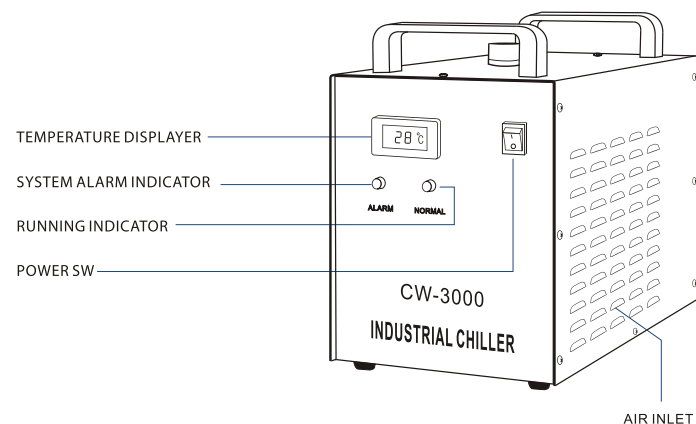


- 7** To protect laser heating devices, the radiator fan of cooler will suspend to work when water temperature is lower (about 10 °C), and it will restart to run when water temperature rises to higher (about 20 °C).

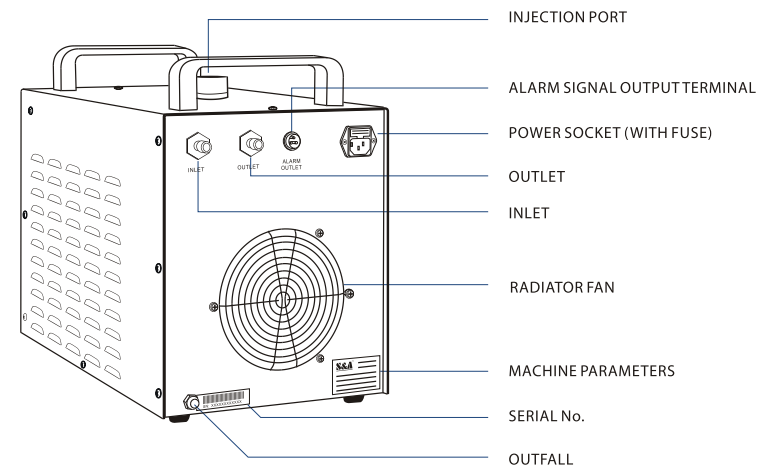


PARTS INTRODUCTION

FRONT



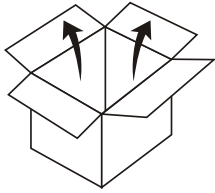
BACK



INSTALLATION

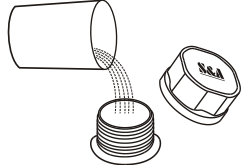
It is very simple to install this industrial water cooler. The installation for the first time of the new machine can be carried out by following steps:

1



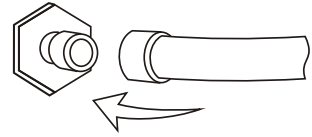
Open the package to check if the machine is intact and all the necessary accessories are completed.

2



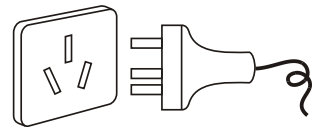
Open the injection port to feed cooling water. (Do not spill out the water!)

3



Connect the water inlet and outlet pipes well according to system conditions.

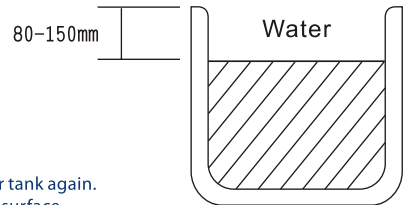
4



Plug in power and turn on the power switch. (Do not start up without water in the water tank!)

(1) Power switch turned on, the circulation pump of the chiller starts working. The first time of operating may cause more bubbles in the pipe leading to a flow alarming occasionally, but running for a few minutes later, it will go back to normal.
(2) After the first boot, you must immediately check whether the water pipe leaks.

5

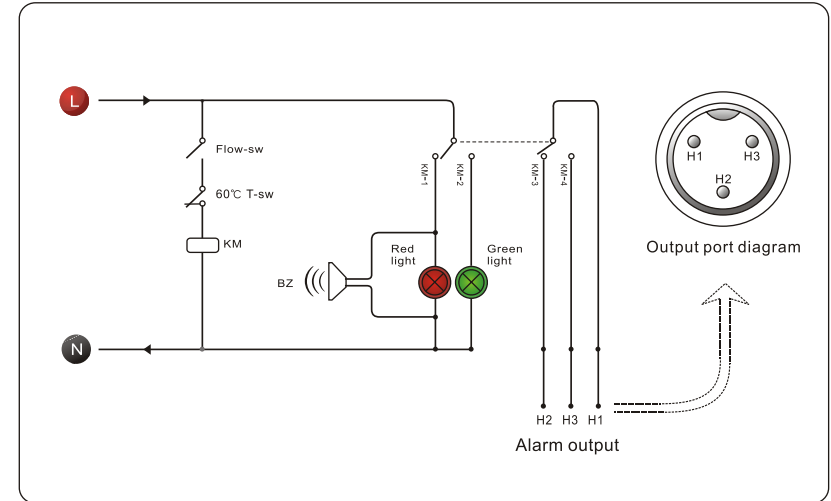


Check the water level of the water tank again. (It should be 80-150mm from the surface of water to the injection port)

FLOW ALARM AND OUTPUT PORTS

In order to guarantee the equipment will not be damaged while cooling water circulation is out of control, CW-3000 series water cooler possess a low flow alarm protection.

Flow alarm output ports and the wiring diagram



ALARM DESCRIPTION

Causes of the cooling water circulation loop alarm and the working condition table

DISPLAY CONDITION	GREEN LIGHT	RED LIGHT	BUZZER	OUT H1、H2	OUT H1、H3
Normal	● On	⊗ Off	🔇 No voice	🔴 Off	🟢 On
Water stops up	⊗ Off	● On	🔊 Voice	🟢 On	🔴 Off
Surpasses 60°C	⊗ Off	● On	🔊 Voice	🟢 On	🔴 Off
Pump breakdown	⊗ Off	● On	🔊 Voice	🟢 On	🔴 Off
Alarm of water shortage	⊗ Off	● On	🔊 Voice	🟢 On	🔴 Off
Faulted circuit	⊗ Off	● On	🔊 Voice	🟢 On	🔴 Off
Power outage	⊗ Off	● On	🔊 Voice	🟢 On	🔴 Off

Note: the flow alarm port is connected to the normally open relay and normally closed relay contacts, requiring operating current to be less than 5A, working voltage less than 300V.

MAINTENANCE

- 1.To ensure good heat dissipating, please open the lid to clean the dirt after the cooler used in long-term.
- 2.Users in cold area should use noncorrosive antifreeze fluid.



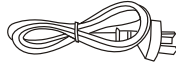


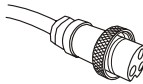
SPECIFICATIONS

MODEL	CW-3000AG	CW-3000DG	CW-3000AF	CW-3000DF	CW-3000AK	CW-3000DK
Voltage	AC 1P 220V	AC 1P 110V	AC 1P 220V	AC 1P 110V	AC 1P 220V	AC 1P 110V
Frequency	50/60Hz					
Current	0.45A	0.9A	0.45A	0.9A	0.5A	1.0A
Cooling	50W/°C					
Capacity	9L					
Inlet and outlet hold	External Φ 10mm brass connector		Φ 8mm speedy connector			
Max. Lift	10M			70M		
Max. Flow	10 L/min			2 L/min		
Protection	Flow alarm			Flow alarm		
N.W	9.5Kg			12Kg		
G.W	12Kg			14.5Kg		
Dimensions	49 x 27 x 38cm (L*W*H)					
Packing dimensions	59 x 39 x 48cm (L*W*H)					

SIMPIE TROUBLESHOOTING

FAILURE	FAULT CAUSE	APPROACH
Machine turned on but unelectricified	Power cord is not plugged in place	Plug the power cord in place
	Fuse burnt-out	Replace the fuse inside the power interface which is in the back of machine
Flow alarm (panel red light) with water pipe directly connect to the outlet, inlet, there is no water flow	Water level in water tank is too low	Feed water and check the pipe leakage
When used with the device, flow alarm (panel red light), but a direct connection with the pipe outlet and inlet, there is water flowing but not alarming	Water level in water tank is too low	Feed water and check the pipe leakage
Ultra-high temperature	Chiller of poor ventilation	To improve the ventilation
	Excessive heat load	Reduce the heat load or to use other models
A normal boot, but the fan does not work	The water temperature below 20°C	A normal phenomenon, no processing
Switch on with alarming after adding water or changing water	Water drop in electric circuit	Natural drying or drying off cap
	Damaged pumps dry transfer	To replace or repair water pumps, prohibited anhydrous boot
Slow outfall drainage	The injection port is not open	Open the injection port

PACKING LIST

1 1 unit of industrial cooler 	2 1 copy of user manual 	3 1 pc of power cord 	4 1 pc of connection hose 
5 2 pcs of sealed hoop (optional) 	6 1 pc of alarm signal output plug 	7 1 pc of spare fuse (Held in the spare fuse holder of power socket) 