

# CW-3000 INDUSTRIAL CHILLER USER MANUAL



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## <1> INTRODUCTION

CW-3000 Series is professional cooling machine referring to international advanced thermolysis cooling system design, suitable for small water-cooled cooling devices requested machinery.

1. Specific disconnection alarm security protection.
2. Hermetic type water tank, water is available for a long time used.
3. Real-time temperature monitoring, accurate knowledge of heating devices working condition.
4. Professional air-cooled forced radiator with strong heat dissipating capacity and difficult to be blocked up.
5. Equipped with alarm output port to protect sensitive components quickly.
6. High cost performance, low failure rate.
7. There are several options of power supply, complete in specifications.

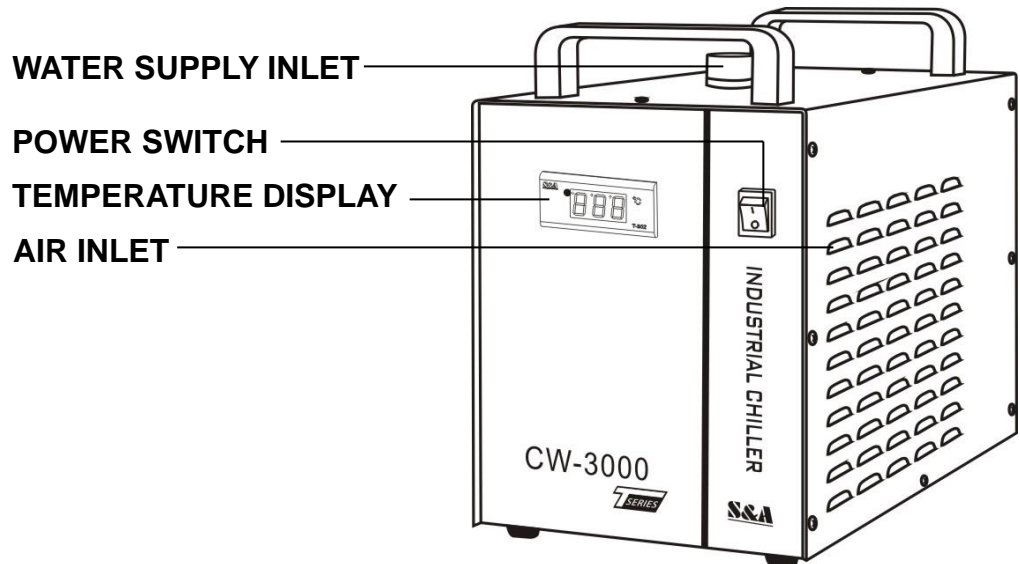
## <2> CAUTION

1. It is strictly forbidden to plug and run the cooler without feeding water.
2. Cooler should be placed in a well-ventilated, dry environment place and away from heat sources. Please keep at least 50cm from obstructions to the air outlet which is in the back of the cooler, and should leave at least 30cm between obstructions and air inlets of two sides.
3. The cooling water must be drained if the cooler is out of use for long time or before being transported.
4. To protect laser tubes , 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).

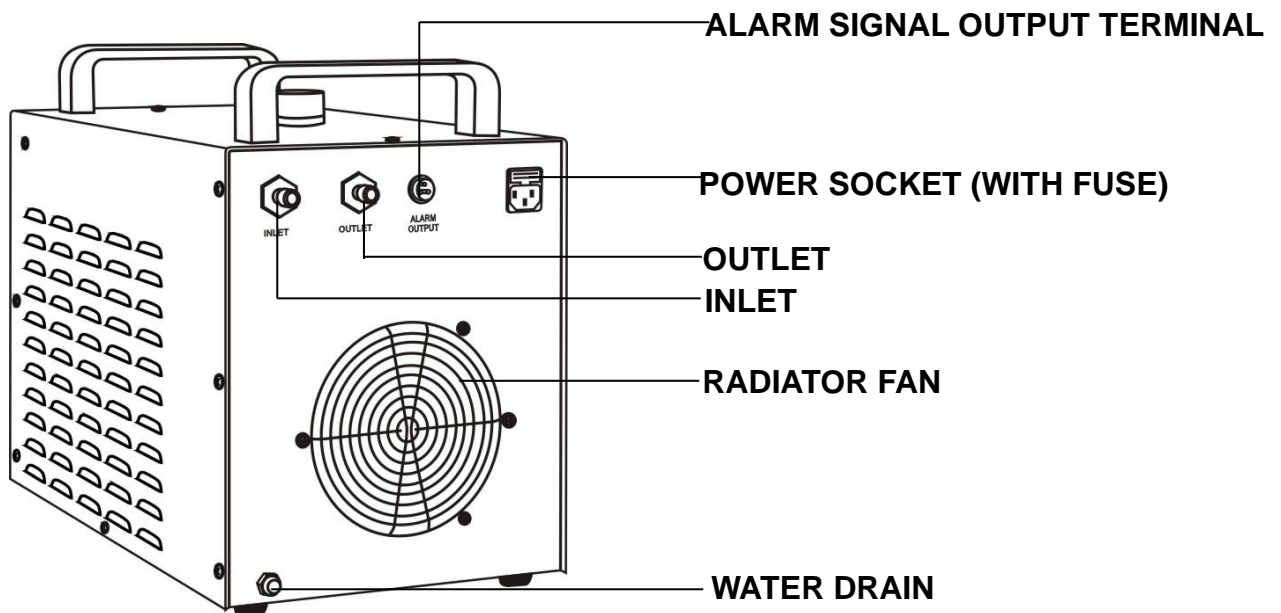
## <3> Details

### 1. Shape and parts name

#### FRONT



#### BACK



## 2. The first installation

It is very simple to install this industrial cooling machine. The first time installation 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, then add cooling water.
3. According to system conditions, connect the water inlet and outlet pipe well.
4. Plug in power, turn on the power switch. (Do not allow the water overflow)
5. Check the water level of the water tank again. (It should be 80-150cm from the surface of water to the injection port)

## 3. Alarm description

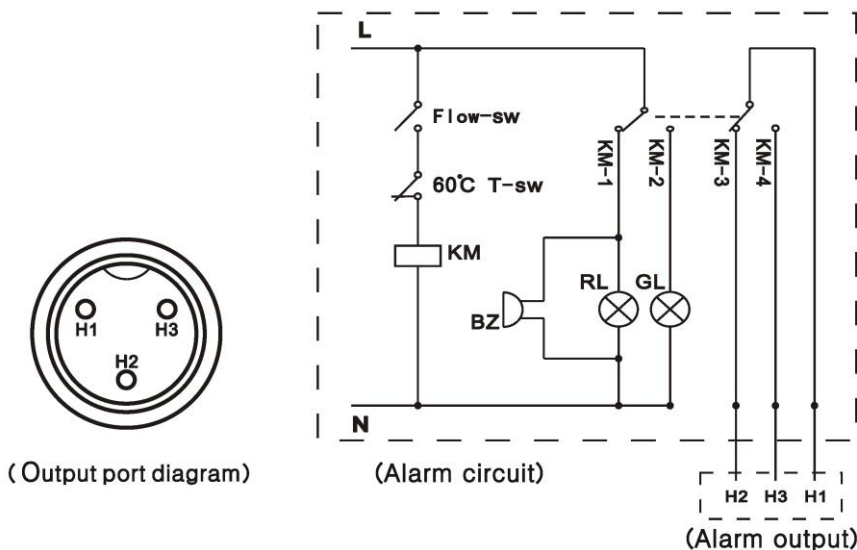
### (1) Alarm function

E0	E1	HH	LL
Water flow alarm input	Ultrahigh water temperature	Short circuit of water temperature sensor	Water temperature sensor open circuit

### (2) Causes of the cooling water circulation loop alarm and the working condition table.

Display Condition	Buzzer	out H1、H2	out H1、H3
Normal	No voice	Off	On
Surpasses 60°C	Voice	On	Off
Flow alarm	Voice	On	Off
Faulted circuit		On	Off
Power outage		On	Off

**Note:** The flow alarm port connects to the normally open relay and normally closed relay contacts, requiring operating current to be less than 3A, working voltage less than 300V.



#### 4. Maintenance

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

### <4> SPECIFICATIONS

Model	CW-3000TG	CW-3000DG	CW-3000TK	CW-3000DK
Voltage	AC 1P 220V	AC 1P 110V	AC 1P 220V	AC 1P 110V
Frequency	50/60Hz			
Current	0.45A	0.9A	0.5A	1.0A
Machine power	0.10KW		0.11KW	
Radiating capacity	50W/°C			
Max. lift	10M		70M	
Max. flow	10L/min		2L/min	
N.W	9.5Kgs		12Kgs	
G.W	12Kgs		14.5Kgs	
Protection	Flow alarm			
Tank capacity	9L			
Inlet and outlet	External Φ10mm brass connector		Φ8mm speedy connector	
Dimension	49 X 27 X 38cm (L X W X H)			
Packing dimension	59 X 39 X 48cm (L X W X H)			

**<5> SIMPLE TROUBLESHOOTING**

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