CW-3000
INDUSTRIAL CHILLER
USER MANUAL

Contents

<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.**

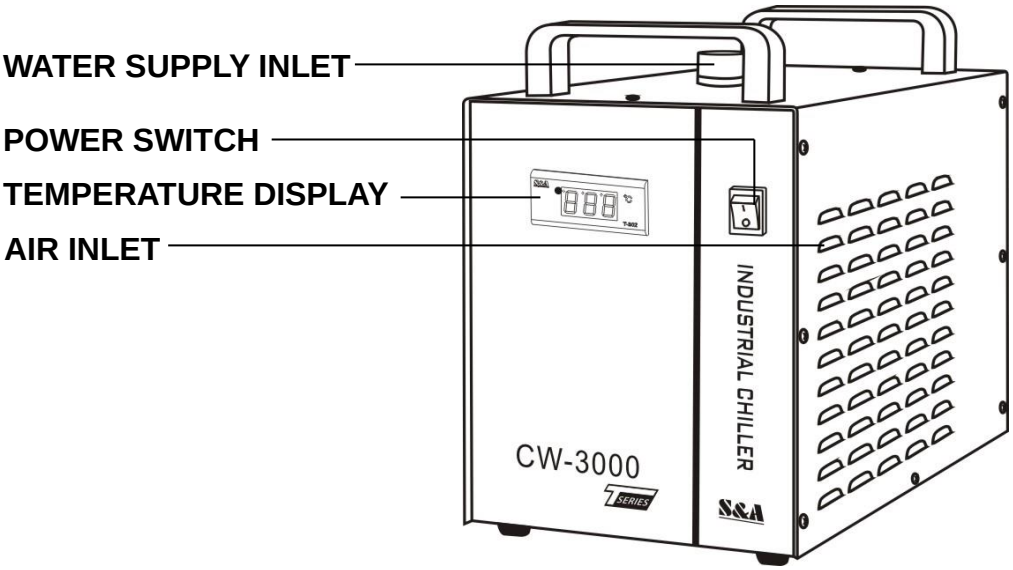
<2> CAUTION

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℃) , and it will restart to run when water temperature rises to higher (about 20 ℃).**

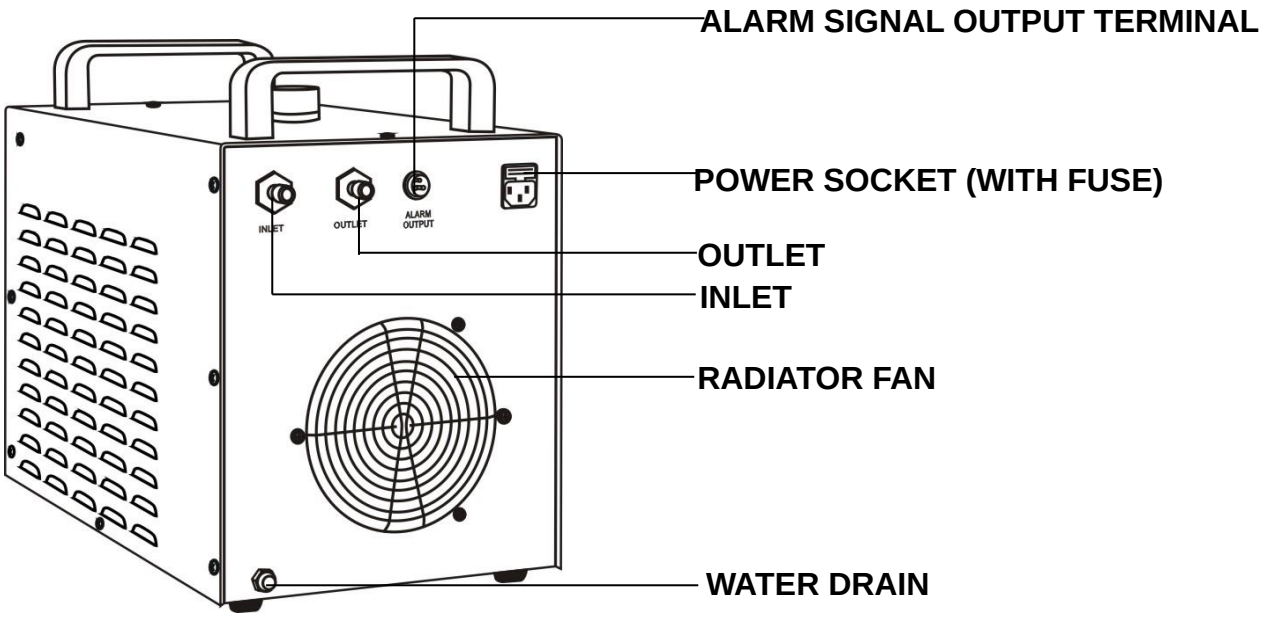
<3> Details

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

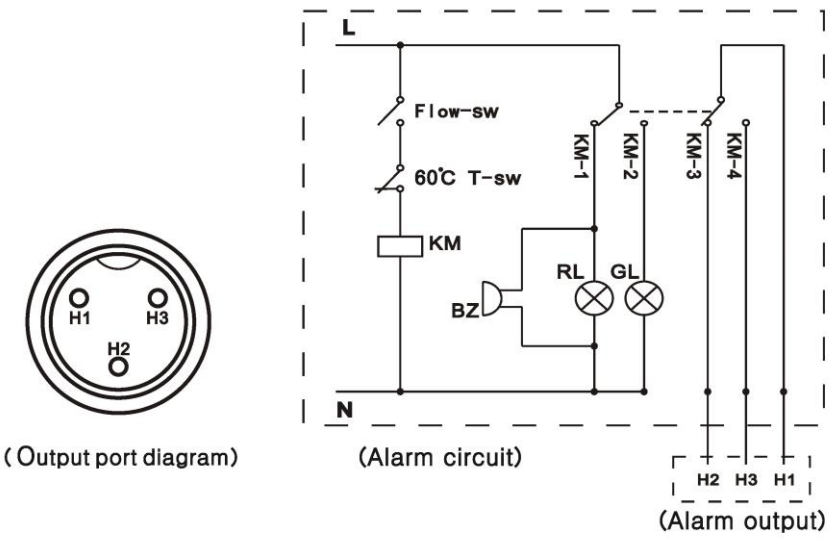
（1）Alarm function

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

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

Display / Condition	Buzzer	out H1、H2	out H1、H3
Normal	No voice	Off	On
Surpasses 60℃	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
Rated power	0.10KW		0.11KW	
Radiating capacity	50W/℃			
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	8.5L			
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)			

Note: The current and rated power could be different under different working conditions and configurations. The above information is for reference only. Please subject to the nameplate of the actual delivered product.The max. pump flow is obtained by testing the pump individually on test criteria GB/T 3216-2005.

<5> SIMPLE TROUBLESHOOTING

Failure	Fault cause	Approach
Machine turned on but unelectrified	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,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, but a direct connection with the pipe outlet and inlet, there is water flowing but not alarming	Blockage in circulating water pipeline	Check circulating water pipeline
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 degrees	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