USER MANUAL

CW-3000

THERMOLYSIS WATER-COOLED CHILLER

USER MANUAL

Thank you for using the machine from Our company Please read the installation instruction carefully before installing and operating and keep it properly.

This installation instructions is not a quality assurance. Our company reseves the right to the nterprten of coretion of typographical errors,improper mentioned information and product improvement.

The amended content will be reprinted in installation in structions without notice in advance.

CAUTION

It is stictly forbidden toplug and run the coler without eeding water.

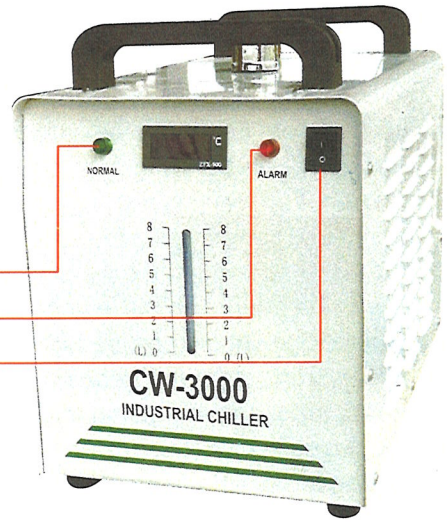
- Cooler should be placed in a well-ventilated,dry environment place and away from heat sources.
- Please keep at least 30cm from obstructions to the air outlet which is in the back of the cooler,and should leave at least 10cm between obstructions and air inlets of two sides.
- The cooling water must be drained if the cooler is out of use for long time or before being transported.
- To protect laser heating devices,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℃).

Precautions for use of chiller

1. Use the correct voltage, too low voltage will cause the compressor to fail to start or even burn out.
2. The chiller must be placed horizontally, upside down, sideways, and diagonally are strictly prohibited.
3. Please be sure to use the attached power cord or the national standard power cord of more than 1 square meter,Do not use less than 1 square meter or poor quality power cord, it is easy to cause machine burn out.
4. Please inject pure water or antifreeze. Distilled water and antifreeze can be used. Tap water is not recommended.
5. Do not use corrosive liquid.
6. The water added into the water tank should be replaced every half a month. The air inlet doors on the left and right sides of the chiller and the dust around the machine should be cleaned up once a half month. Too much dust will seriously affect the refrigeration effect.
7. Please keep a space distance of 50 cm around the chiller. It is strictly forbidden to deposit debris at the air outlet or air inlet, which affects the ventilation effect.
8. The external water pipe should not be too thin and too long, it will cause the head to be too long, exceeding the use head of the chiller, causing water flow alarm.
9. If the alarm trip red light of the chiller flashes and the temperature controller displays the word H, it means that the water temperature is too high. Please adjust the alarm temperature of the temperature controller or check whether the fan and compressor are started, and make corresponding treatment.
10. If the alarm trip red light of the chiller is flashing, the temperature controller displays the word L, indicating that the water temperature is too low, please adjust the alarm temperature of the temperature controller to the appropriate value.
11. If the chiller alarm is accompanied by a red light flashing, and the temperature controller displays normally, this is a water flow alarm. Please check whether the water pipe is pressed to affect the water flow, or the water pipe is too thin to affect the water flow, or check whether the water pump is faulty.
12. Turn on the power switch, and the chiller doesn't respond. Please check whether the safety tube built in the power socket is burned or replace the power cord. If the problem still can't be solved, please open the shell and check whether the 24 V DC power supply inside the machine is broken, or replace it directly.

SHAPE AND PARTS NAME

FRONT

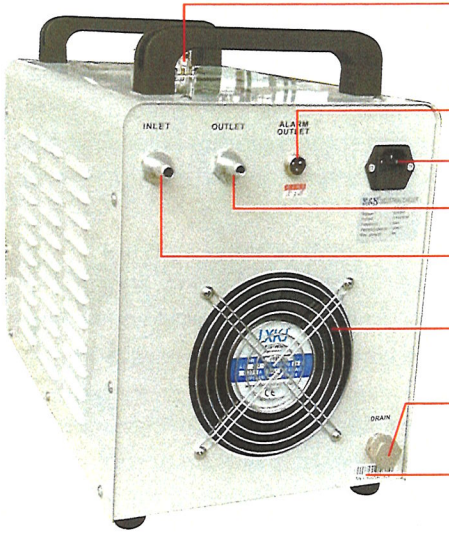


RUNNING INDICATOR

SYSTEM ALARM INDICATOR

POWER SW

BACK



INJECTION PORT

ALARM SIGNAL OUTPUT TERMINAL

POWER SOCKET(WITH FUSE)

OUTLET

INLET

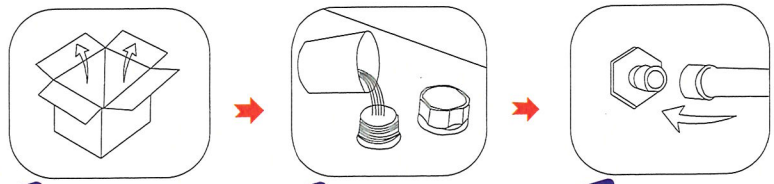
RADIATOR FAM

OUTFALL

AERIAL No.

THE FIRST INSTALLATION

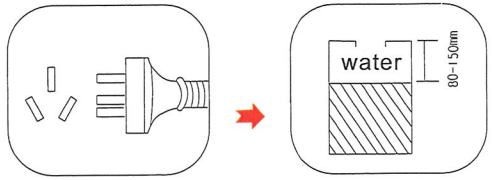
It is very simple to install this industrial cooling machine. The first time installation of the new machine can be carried out by follwing steps.



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

2 Open the injectionport then add cooling water. (Do not allow the water overflow)

3 Accoreding, to system conditions, connect the water inlet and outlet pipe well.



4 Plug in power,turn on the power switch.(Do not let the water spill over)

5 Check the water level of the water tank again.(It should be water to the injection port)

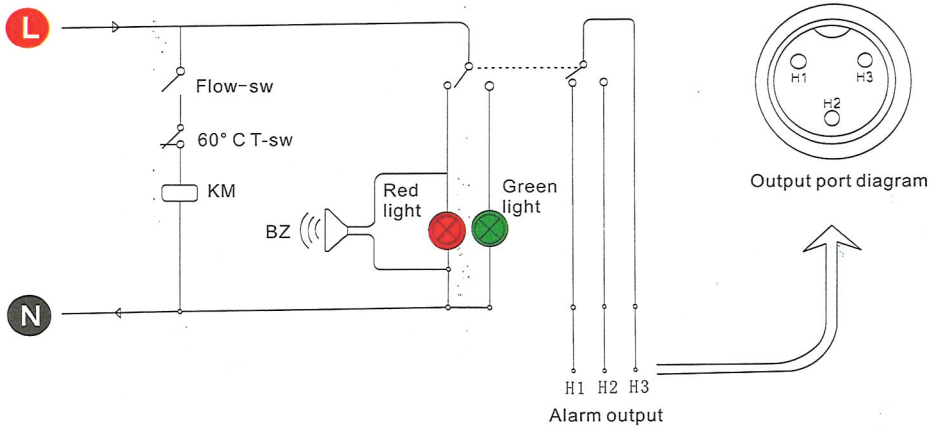
ALARM DESCRIPTION

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				On	Off
Power outage				On	Off

Note: the fiow 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.

ALARM CIRCUIT



Output port diagram

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.

SPECIFICATIONS

MODEL	CW-3000AG	CW-3000DG	CW-3000AF	CW-3000DF
Voltage	AC220-240V	AC100-120V	AC220-240V	AC100-120V
Frequency	50/60HZ			
Current	0.45A	0.9A	0.45A	0.9A
Cooling	50W/°C			
Capacity	8L			
Max.Lift	10M			
Max.Flow	10L/min			
Protection	flow alarm			
N. W	9. 5kg			
G. W	11.5kg			
Dimensions	47*27*37cm(L*W*H)			
Packing dimensions	56*36*47cm(L*W*H)			

SIMPIE 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-uot	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 out let inlet there is 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 mot alarming	water levei 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 notwork	The water temperature below 20°	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 transfer pumps dry	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 chiller
2. 1 Copy of power cord.
3. 1 Pc of power cord.
4. 2 Pcs of sealed hoop.
5. 1 Pc of alarm signal output plug.
6. 1 Pc of spare fuse.
   (Held in the spare fuseholder of power socket.)

CAUTION: the appliance is not to be used by childer or persons with reduced sensory or metal capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction, children being supervised not to play with the appliance.