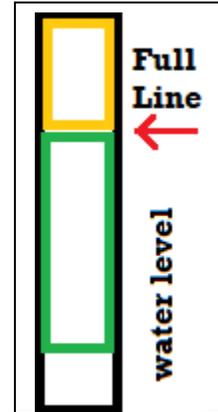


# LightObject Q Water Chiller s-series Instruction

Please go over the cautions and conditions section before using the chiller.

## Startup procedures

- 1) Remove the cap on the back and fill in distilled water until the water level reaches right below the full line. **(IMPORTANT!!)**
- 2) Connect the chiller's water outlet to the laser machine's water inlet. Connect the chiller's water inlet to the laser machine's water outlet.
- 3.) Make sure the power button is off. Connect the AC power cord from the back of the chiller to a wall mount AC outlet.
- 4) Power up the chiller. Check the water flow direction. Check for any leaks.



## Operation

By default, the water will be cooled down to **22 Celsius (71F) – Recommended default setting**. When the water temperature is lower than 15 Celsius, there will be small beeping and blue LED will be flashing to notify low water temperature. When the water temperature is below 13 Celsius, the heater (if equipped) will warm up water to ~15 Celsius and stop.

## Alarm

When water is not flowing, there will be loud beeping. When temperature is too high (above 38C), there will be loud beeping. If the water temperature is below 13 Celsius there will be a small beeping sound and the blue LED will be flashing. If you are using the alarm pins, the alarm cord output will be open circuit. Left and right alarm pins become closed contact when alarm occurs. The middle pin is not used.

## Chiller Control Instruction with JLD612



AC Power Input  
&  
Fuse location

Alarm cord  
(optional)

- 1 -- AL1, compressor working.
- 2 -- AL2, valve triggered for low power chilling.
- 7 – Decrease temperature.
- 8 – Increase temperature.
- 9 – Set temperature for cooling. **(recommend at 22 Celsius)**
- 10-- Water temperature reading.

## **Cautions and Conditions**

- 1) Water pump will be damaged when running without water.
- 2) Air filters must be cleaned regularly (unscrew two screws of the side doors for some models); Leaves space around the chiller for proper ventilation.
- 3) Change to distilled water is recommended to prevent bacterial growth. Change water every 6 months, or when you start see your water getting dirty.
- 4) **Do not power on right after power off the chiller, it could blow the fuse** (under the power socket). Please wait for about 30 seconds.
- 5) To ensure an accurate temperature reading, keep the water level at the high line because heater's sensor is not the same as the sensor for PV(Current water temperature).
- 6) To avoid water back flow from the machine when draining, drain from the bottom of the chiller first.

## **Specification**

Heater power: 500W

Water Inlet/Outlet diameter: 10 mm

Ambient Temperature:  $\leq 35^{\circ}\text{C}$  ( $95^{\circ}\text{F}$ )

Maintain Water Temperature:  $15\sim 24^{\circ}\text{C}$

Built in water flow alarm and high/low temperature alarm