



## LightObject-800W Water Chiller Manual



### Specifications:

Input power: AC 110V, 60Hz

Full power current: 3.5Amp

Refrigerant: R134A

Pump power: 30 W

Pump lift (cut off): 10m (33ft)

Flow rate: 19L/min, 300GPH

Water tank capacity: 7L

Water Inlet/Outlet diameter: 10 mm

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

Chilled Water Temperature:  $18\sim 30^{\circ}\text{C}$

Weight: 20kg (45lb)

Dimension: W405×D470×H480mm (16" x 18.5" x 19") note: depth measured from blue cap

Built in water flow and high temperature alarm

### Cautions and Conditions

- 1) Ensure good contacts on the AC power plug: Live, Neutral, and Ground
- 2) Stable AC voltage is necessary for operation. AC 110V +/-5%
- 3) Stable AC frequency (Hz) is required. No square wave or modified sinusoidal wave.
- 4) Water pump will be damaged when running without water.
- 5) Air filters must be cleaned regularly; Leaves space around the chiller for proper ventilation.
- 6) Change the distilled water every 3 months. Maintain water level in the green zone of the indicator.



Water inlet

Chilled water outlet



AC Power Input,  
Fuse location

Alarm cord  
(Optional)

Filter panel screw  
(2 on each side)

### Startup procedures

- 1) Remove the cap on the back of the unit and fill in water until the water level reaches the top of green zone of the level indicator.
- 2) Use the silicone water tubing to connect the water chiller to the machine. 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. Add more water if the water level drops below the green zone.

Left and right alarm pins become open contact when alarm occurs. The middle pin is not used.

### Chiller Control Instruction with JLD612

By default, the water temperature is set to **22° Celsius (71° F)** which is the default setting and recommended setting. When the water is over the set temperature, the chiller will start to cool down the water to the setting temperature.

The setting temperature could be adjusted by pressing the Up and Down arrows.



- 1 -- AL1, compressor working.
- 2 -- AL2, valve triggered for low power chilling.
- 3 -- Not used.
- 4 -- Not used.
- 5 -- Setting / Confirm.
- 6 -- Digit select.
- 7 -- Select next parameter / value increment.
- 8 -- Selection previous parameter / value decrement.
- 9 -- Low power chilling temperature.
- 10-- Current temperature.

### Alarm

- 1) **Water is not flowing.**
- 2) **Temperature is getting too high.**