

LO-1600W Water Chiller Operation Manual



Caution and Conditions

- 1) Ensure good contacts on the AC power plug: L, N, and G
- 2) Stable AC voltage is necessary. +/-5%
- 3) Stable AC frequency (Hz) is required. No square wave or modified sinusoid wave accepted
- 4) Do not operate without water or the water pump will suffer damage.
- 5) Remove any obstacle that is blocking the intake or the outlet from the fan
- 6) Air filter need to be cleaned periodically.
- 7) Change water every 2 weeks. Distilled water is highly recommended.
- 8) Operate the unit by trained and skill personnel only.

Introduction

The LO-1600W is an industrial grade water chiller with a high efficiency compressor running on R410A environmental friendly Freon. The chiller is controlled by the sophisticated microcontroller with a large easy LCD readout. Two control modes *Intelligence* or *Constant* provides an accurate and fast control to the change of temperature.

Control modes

Intelligence – The target temperature changed accordingly upon the change from the ambient temperature. The amount of temperature change (drop) is controlled the ‘deviation’ value.

Constant – The target temperature is fixed at set by the “SV” parameter. Regardless of how an ambient temperature changes, the chiller will always reach the target temperature with a plus or minus variation of the ‘Feedback’ value



Startup procedures

- 1) Open the cap from the top of the unit and fill with water until the water level reaches the green zone.
- 2) Connect a water tubing from the intake of the chiller to the machine outlet. Connect another water tubing from the Outlet of the chiller to the machine intake.
- 3) Connect an AC power cord from the back of the chiller to a wall mount AC outlet. By default, the system will count down 5 seconds and kick in after power cord is plugged in. Manual start can be configured through the menu if Auto start is not preferred.
- 4) Check water level after system is running for 1 min. Add more water if water dropped below the green zone. Then, closed the water cap

Controls

Power On/Off (press the  for 3s)



Main screen (System is running)

- PV Temp: Current water temperature
- SV Temp: Target water temperature
- Feedback Temp: Fluctuation allowance.



Configuration (press Menu)

- Set temp: This is the target temperature for the chiller. Use   button to set the preferred temperature.



- Deviation: This is the range of fluctuation allowed for the *Intelligence* mode only



- Feedback: This is the range of fluctuation allowed for the *Constant* mode only



- Max Temp: This is the max water temperature (over heated) before the alarm is set off



- Language: Either English or Chinese can be set for the default language. Default is English



- Intelligence mode: By default, Constant mode is selected.



- Cooling on power: If 'Yes', the chiller will start to run once power is on. If you want to manually turn on the cooling, select 'No'



- System Reset: Reset all parameters to the manufacturer default value. Or, reflect the change once system OS is updated. By default, select 'No'



Model	WC-LO1650WSH2V	WC-LO1650WSH1V
Voltage:	AC220V +/- 5%	AC110V +/- 5%
Frequency:	60Hz	60Hz
Amp:	3.3A	6.5A
Compressor power:	0.5KW (0.68HP)	0.68KW (0.93HP)
Cooling power:	1.65kW	1.750kW
Freon type:	R-410A	R-410A
	380g	350g
Water pump power:	0.1kW	0.1kW
Flow rate:	13L/min or 95GPH	13L/min or 95GPH
Cut off range:	10m (33ft)	10m (33ft)
Reservoir:	6L (1.6Gal)	6L (1.6Gal)
Net Weight:	26Kg (57.2lb)	26Kg (57.2lb)
Size:	58x29x37cm(L x W x H) 22.8" x 11.4" x 18.5"	58x29x37cm(L x W x H) 22.8" x 11.4" x 18.5"
Packing:	70x43x58 cm (L x W x H) 27.6" x 17" x 22.8"	70x43x58 cm (L x W x H) 27.6" x 17" x 22.8"