## P/N: TLH-300



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## TLH-300 Thermoelectric Liquid Chiller with Heater

The TLH-300 is a recirculating thermoelectric liquid chiller rated at 300W, or 1024 BTU/hr (@25°C liquid & ambient). The liquid temperature accuracy is precisely controlled to +/-0.1°C based on a single configurable set point. The system also has heating capabilities to target temperatures above ambient.

TLH-300 has a unique dual reservoir design. The primary loop circulates coolant externally for the cooling/heating application, while the internal loop regulates the thermoelectric components. (Coolant is required in both reservoirs since they are not shared.)

Coolant flow rate, temperature, and reservoir level are monitored, and a USB port allows control and logging of most features using the <u>Koolance System Monitor</u> application. A 0-5V differential voltage output is also provided for industrial process monitoring.

- Cooling capacity: 300W (1024BTU/hr) @ 25°C liquid/ambient
- Temperature options: liquid set-point (+/-0.1°C accuracy); toggle °C/°F
- Pump: 10 manual levels, up to 8.5LPM (2.2 GPM)
- Select only values you want displayed on the front 2-line OLED display (fixed or rotating)
- Show liquid temperature, and two optional external K-type thermocouples
- Show pump impeller speed in RPM
- Show coolant flow rate in LPM/GPM
- Show radiator fan speed in RPM
- Adjust audio alarm and relay trigger (NO or NC) based on: temperature, flow rate, coolant level, pump RPM, and radiator fan RPM
- Power input: 110/220VAC, 50-60Hz (NEMA 5-15 power cable included)
- Maximum power consumption: 720W
- Reservoir capacity: total 1.8 liters (0.8L external loop, 1L internal loop)
- NPT 1/4in threads on back for fittings

General	
Weight	43.20 lb (19.60 kg)
Fitting Thread	NPT 1/4in
Max Pressure Tolerance @ 25°C	2kgf/cm2 (28.5psi)
Max Temperature Tolerance	60°C (140°F)
Noise (dBA)	47
Cooling Systems	
Cooling Capacity	300W (1024BTU/hr) @ 25°C liquid & ambient (0°C dT)
Display Type	OLED
Max Flow Rate (10-13mm ID)	8.5LPM (2.2 GPM)
Max Power Consumption	720W
Max Static Pressure (10-13mm ID)	0.89kgf/cm2 (12.7psi)

General	
Power Source	110/220 VAC, 50-60Hz
Temperature Sensors	Liquid & Two K-Type Thermocouples (optional)
Temperature Stability	+/-0.1ºC





