

LLX-7000 Liquid-to-Liquid Cooling System



Koolance's LLX-7000 is designed for heat loads up to 7000W where facility water or a chilled source is available. It contains a large stainless steel coolant reservoir and plate heat exchanger. The internal coolant pump outputs up to 9.1LPM (2.4GPM).

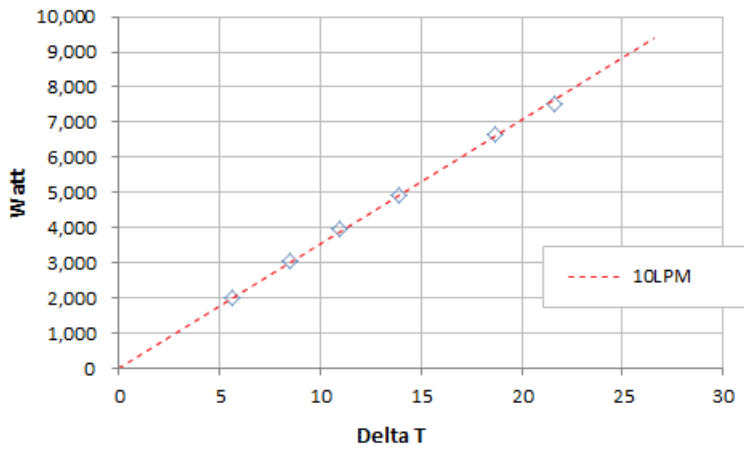
LLX-7000 monitors coolant flow rate, temperature, and reservoir level. A USB port is integrated for viewing and logging of temperature and sensor data using the [Koolance System Monitor](#) application.

Connections to the unit are made with Koolance QD4 and QD4H auto-shutoff quick disconnect fittings. Fittings for 13mm x 19mm (1/2in x 3/4in) tubing are included. NPT threads and [other versions](#) are available from Koolance.

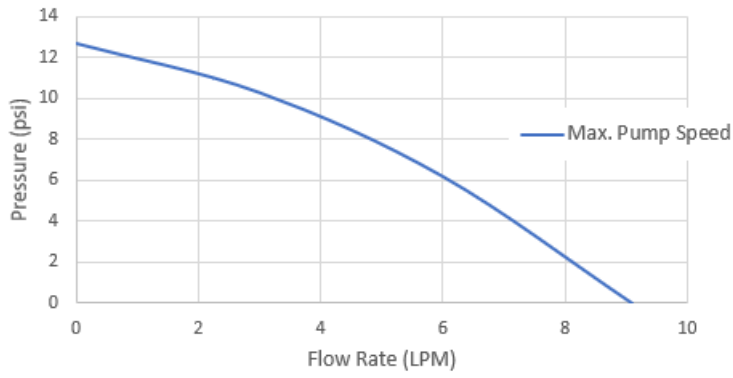
- Heat Transfer: 7kW (23,885 BTU/hr) @10LPM facility water, with 20°C delta between liquids
- Temperature options: display °C/°F of reservoir liquid, and up to two K-type thermocouples (not included)
- Pump: 10 manual levels, up to 9.1LPM (2.4GPM)
- Select only values you want displayed on the front 2-line OLED display (fixed or rotating)
- Show coolant flow rate in LPM/GPM
- Show pump impeller speed in RPM
- Enable audio alarm based on: temperature, flow rate, and/or reservoir coolant level
- Enable relay trigger (NO or NC) based on: temperature, flow rate, and/or reservoir coolant level
- Power input: 110/220VAC, 50-60Hz
- Max power consumption: 40W
- Reservoir capacity: 11.5L (389 fl oz)
- QD4 series quick disconnects used for coolant loop
- QD4H (high pressure) series quick disconnects used for facility loop

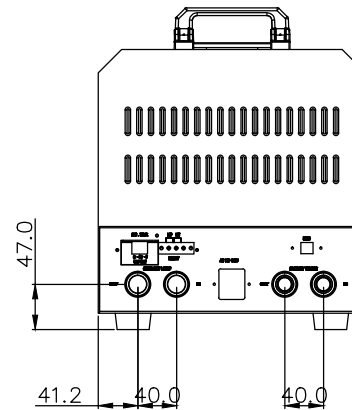
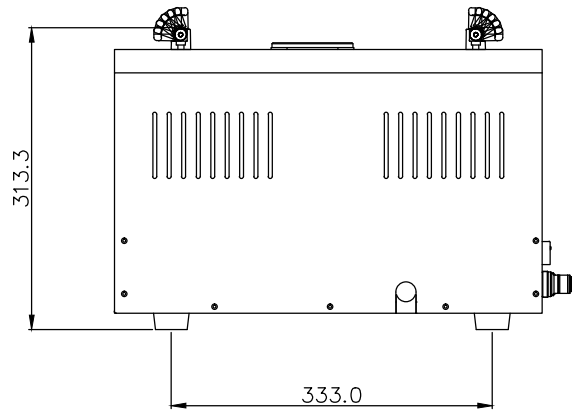
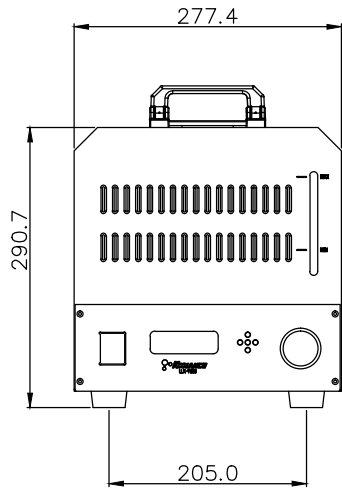
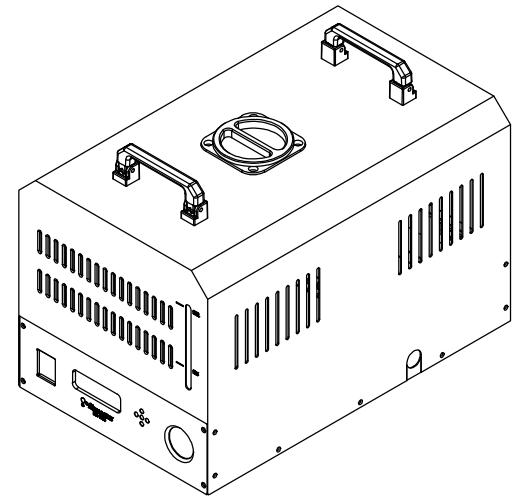
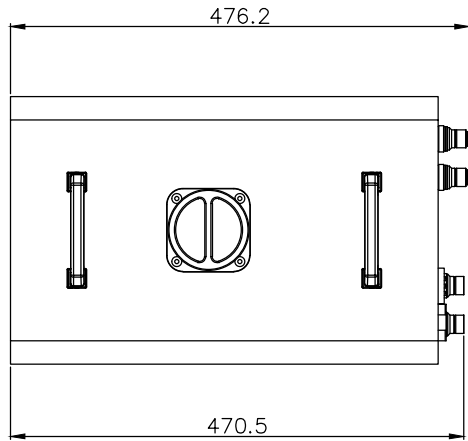
General	
Weight	35.60 lb (16.15 kg)
Max Pressure Tolerance @ 25°C	Facility Loop: 8kgf/cm2 (114psi); Coolant Loop: 2kgf/cm2 (28.5psi)
Max Temperature Tolerance	70°C (158°F)
Cooling Systems	
Cooling Capacity	7kW (23,885 BTU/hr) @10LPM facility water (20°C dT)
Display Type	OLED
Max Flow Rate (10-13mm ID)	9.1LPM (2.4GPM)
Max Power Consumption	40W
Power Source	110/220 VAC, 50-60Hz
Temperature Sensors	Liquid & Two K-Type Thermocouples (optional)

LLX-7000 Thermal Performance



LLX-7000 Pump Output





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NO.	DESCRIPTION			MATER'L	QUANTITY	REMARKS	
	KOLANCE			UNIT	MM	ITEM LLX-7000	
				SCALE	N/S		TITLE
	DATE	BY	BY	APPRO BY	DECIMAL PLACES	Liquid-Liquid Heat exchanger System ,7KW	
	2017.02.28	ys.shin			0 : ±0.3 0.X : ±0.1 0.XX : ±0.05		
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