



Koolance's ALX series are powerful liquid cooling systems with expandable thermal capacities and software logging. ALX-1450-P400 provides approximately 1450W of cooling using a dual fan radiator.

This version includes the RPM-ALX400 and HXM-ALX1450 modules. These are quickly combined during installation, and [individually upgradeable](#) if requirements later change. The front "RPM" contains the pump, reservoir, electronics, and sensors. The rear "HXM" houses the heat exchanger, fans, and flow meter.

A USB port is integrated for viewing and logging of temperature and sensor data using the [Koolance System Monitor](#) application. Rev.2.0 ALX systems add software control options for temperature set point, alarm, trigger relay,

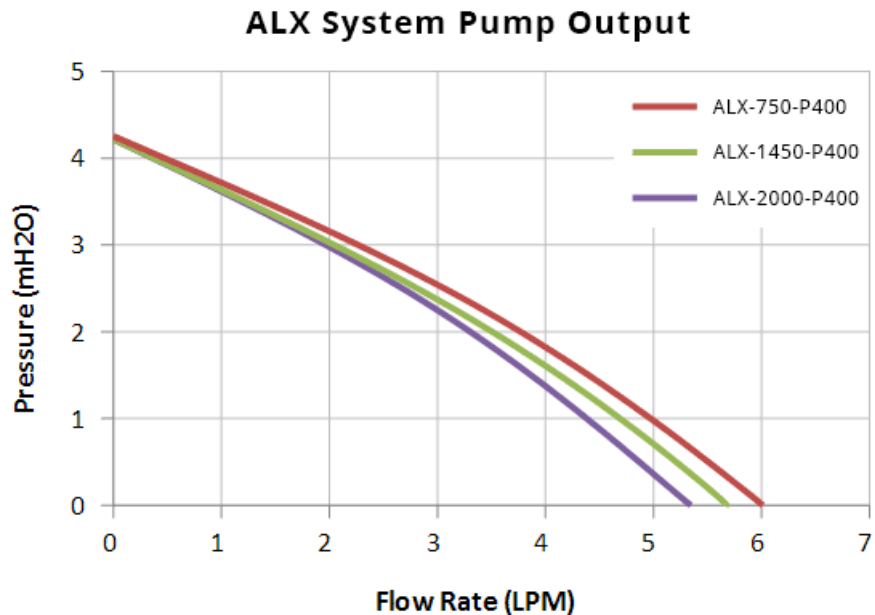
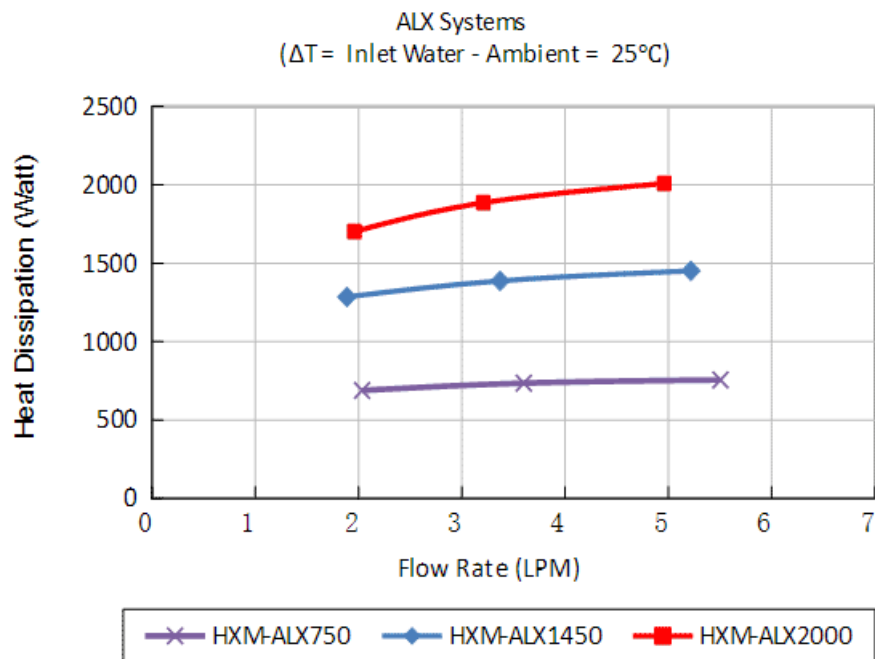
pump speed, and fan speed. Rev.2.1 adds a pump disable option and 0-5V output signal.

- Cooling capacity: 1450W (4948BTU/hr) with 25°C liquid-ambient delta @ 5.3LPM
- Temperature in °C/°F with set-point based on: liquid, or one of two optional K-type thermocouples
- Pump: 10 manual levels, up to 5.3LPM (1.4GPM)
- 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
- Show radiator fan 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: 12VDC, 73W or higher
- Reservoir capacity: 600ml (20.3 fl oz)
- 1/4 NPT threads on back for fittings

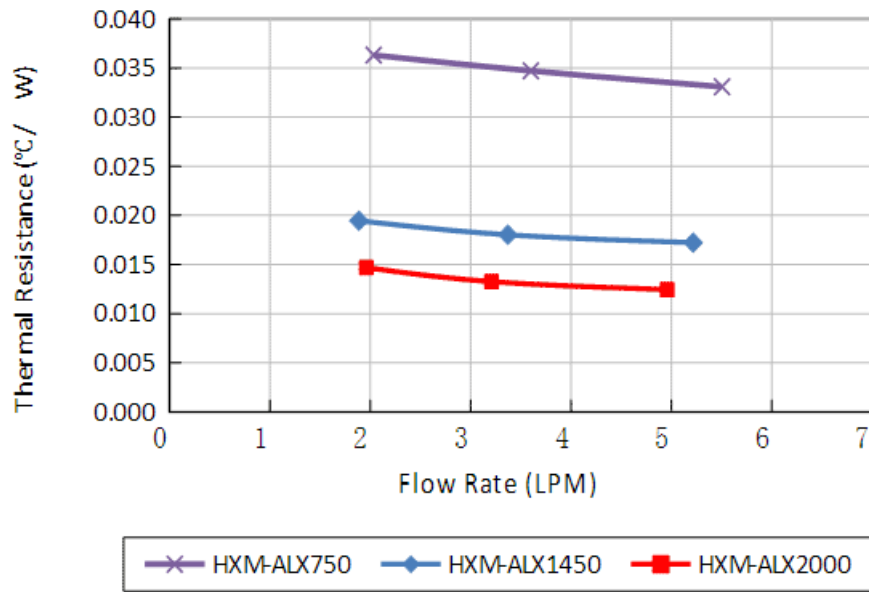
NOTE: Requires 12VDC input power. Koolance offers a separate [power supply](#) for AC wall outlet sources. Inlet/outlet fitting threads on rear of the cooling system are NPT 1/4-inch.

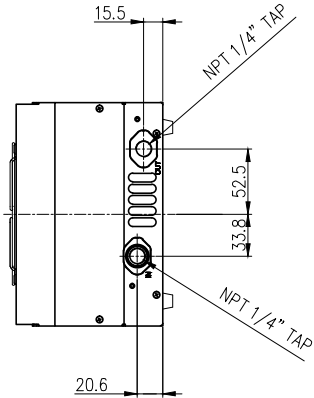
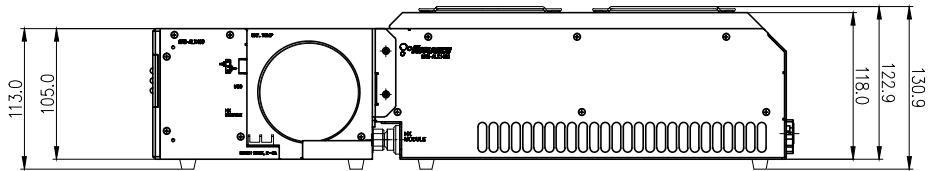
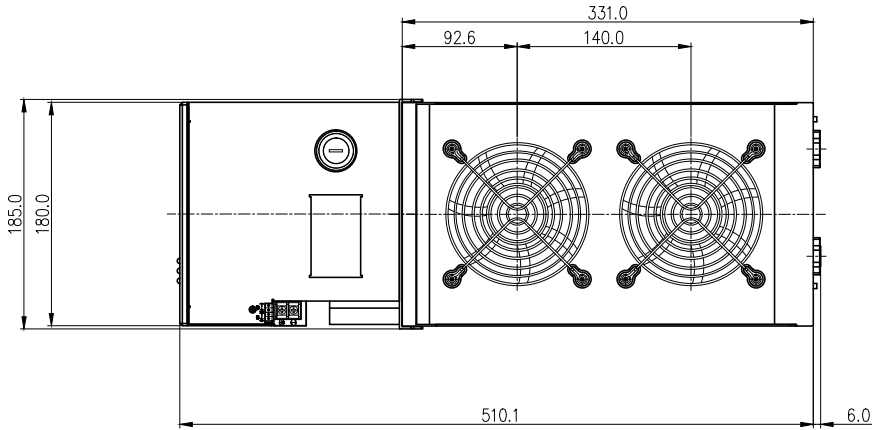
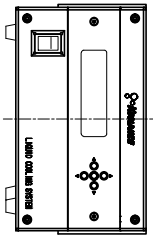
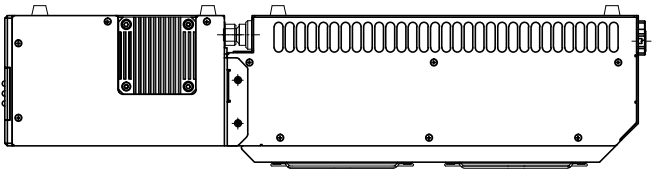
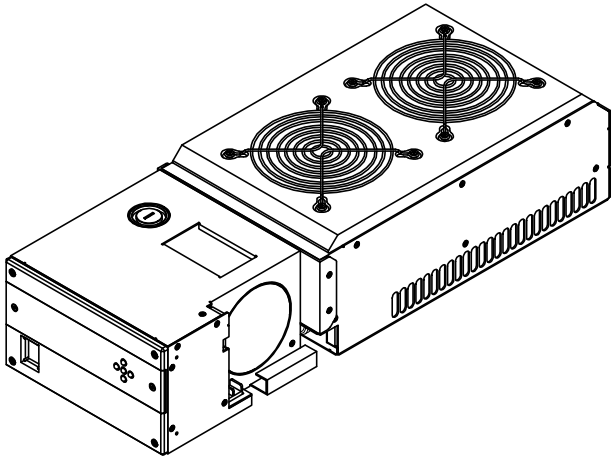
General	
Weight	10.20 lb (4.63 kg)
Fitting Thread	NPT 1/4
Max Pressure Tolerance @ 25°C	2kgf/cm2 (28.5psi)
Max Temperature Tolerance	60°C (140°F)
Noise (dBA)	30-61
Cooling Systems	
Cooling Capacity	1450W (4948BTU/hr) @ 25°C liquid-ambient (25°C dT)
Display Type	OLED
Max Flow Rate (10-13mm ID)	5.3LPM (1.4GPM)
Max Power Consumption	73W

General	
Max Static Pressure (10-13mm ID)	0.4kgf/cm2 (6psi)
Power Source	12 VDC
Radiator	Brass/Copper, 2 x 120mm fans
Temperature Sensors	Liquid & Two K-Type Thermocouples (optional)
Temperature Stability	+/-0.5°C



ALX Systems
($\Delta T = \text{Inlet Water} - \text{Ambient} = 25^\circ\text{C}$)





NO.		DISCRIPTION			MATER'L		QUANTITY		REMARKS	
					UNIT	MM	ITEM	ALX-1450-P400		
					SCALE	N/S	TITLE	Ass'y		
					3RD ANGLE					
					CODE NO.		DWG. NO.	PAGE		
					DATE					
					BY					
					BY					
					APPRO					
					BY					
					S.J.LEE					