

**EXC-450 Portable 450W Recirculating Liquid Chiller, 24VDC (Ultra Compact)**



Koolance's EXC-450 is an extremely compact (6in x 8in x 21in, or 152mm x 203mm x 533mm) portable recirculating liquid chiller rated at 450W, or 1535 BTU/hr @25°C liquid & ambient. Chiller control is based on one of four configurable temperature set-points, including the option to lock liquid to ambient for avoiding condensation or to an external K-type thermocouple sensor (not included).

Along with temperature and set-point, EXC-450 can report internal coolant flow rate, pump RPM, and condenser fan RPM on a customizable 2-line OLED display. An adjustable relay trigger output on the rear of the unit is available based on temperature.

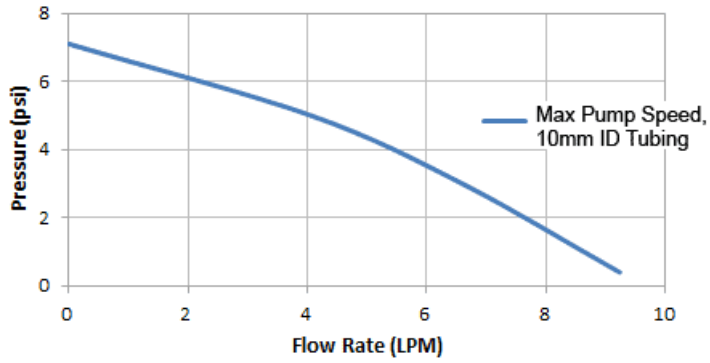
- Cooling capacity: 450W (1535BTU/hr) @ 25°C liquid/ambient
- Temperature options: liquid set-point (1 to 50°C), external thermocouple set-point (1 to 149°C), liquid and ambient delta-T (-50 to 50°C), external thermocouple and ambient delta-T (-50 to 50°C); toggle °C/°F
- Pump: 10 manual levels, up to 8.2LPM (2.2GPM)
- Select only values you want displayed on the front 2-line OLED display (fixed or rotating)
- Show pump impeller speed in RPM
- Show coolant flow rate in LPM/GPM
- Show condenser fan speed in RPM
- Adjust audio alarm based on temperature
- Relay trigger can be configured as NO or NC and adjusted based on temperature
- Refrigerant: R-134a
- Power input: 24VDC, 250W
- Maximum power consumption @ ambient (approximate): 230W @ 25°C
- Designed for an operational temperature range of 0-40°C (ambient and liquid)
- Reservoir capacity: 1 liter
- G 1/4 BSPP threads on back for fittings

NOTE: Requires 24VDC input power. Koolance offers a separate [power supply](#) for AC wall outlet sources. Keep unit upright at all times, and for at least 24 hours before applying power to ensure sufficient oil reaches the compressor.

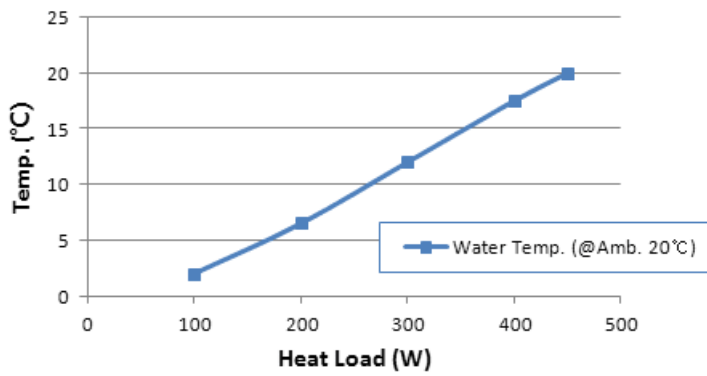
<b>General</b>	
Weight	20.00 lb (9.07 kg)
Fitting Thread	G 1/4 BSPP
Max Pressure Tolerance @ 25°C	2kgf/cm2 (28.5psi)
Max Temp. Operating Tolerance	40°C (104°F)
Noise (dBA)	39-54
<b>Cooling Systems</b>	
Cooling Capacity	450W (1535BTU/hr) @ 25°C liquid & ambient (0°C dT)
Display Type	OLED

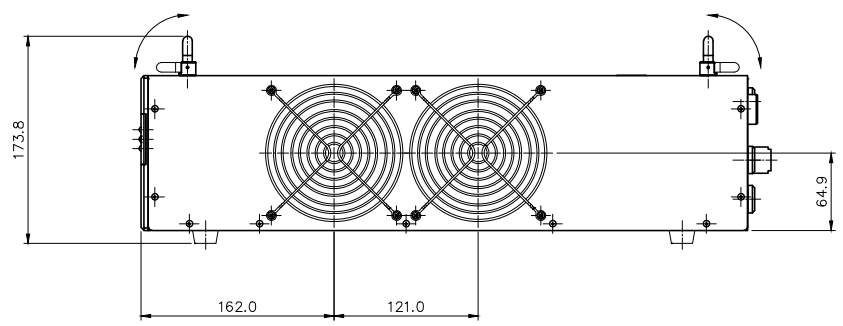
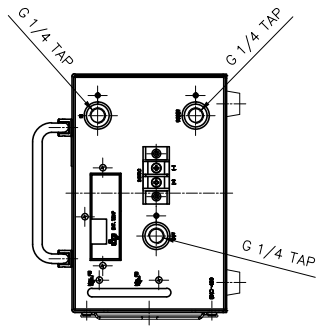
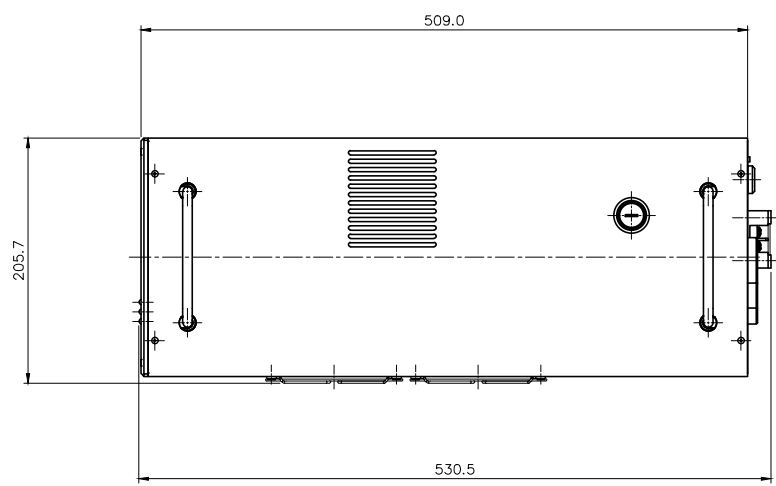
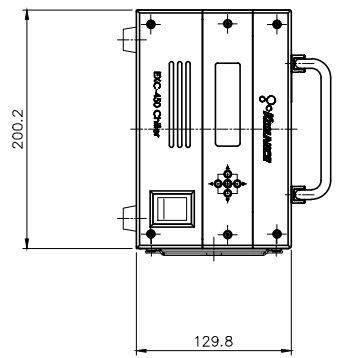
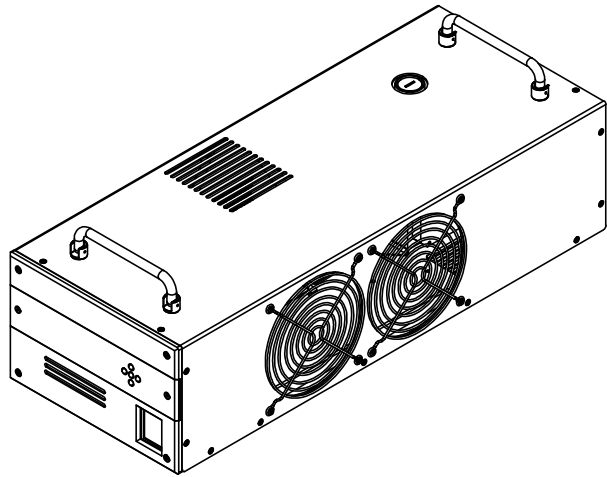
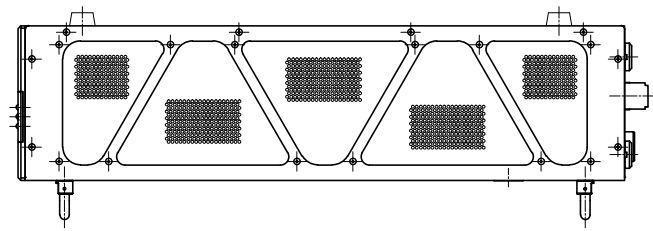
General	
Flow Rate	8.2LPM (2.2GPM)
Max Power Consumption	230W
Power Source	24 VDC
Temperature Sensors	Liquid & One K-Type Thermocouple (optional)
Temperature Stability	+/-1°C

**EXC-450 Pump Output**



**EXC-450 Water Temperature**





NO.	DESCRIPTION	MATER'L		QUANTITY	REMARKS
		UNIT	MM	ITEM	
	<b>KOOLANCE INC.</b>			EXC-450	
		SCALE	N/S	TITLE	Ass'y
DATE	BY	BY	BY	3RD ANGLE	
	S.J.LEE			CODE NO.	DWG. NO.
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