www.koolance.com

Specifications Sheet

Generated: 2026-11-08

P/N: ALR-4600A

ALR-4600A Liquid Cooling System



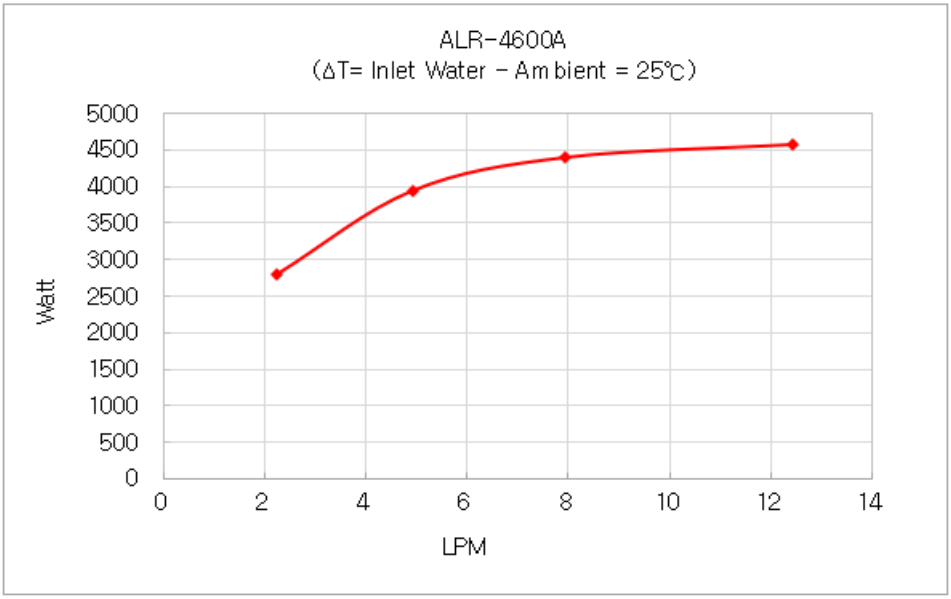
ALR-4600 is a high performance ambient liquid cooling system. It can be operated in horizontal or vertical orientations, and is rack-mountable. This model contains a large eight x 120mm fan aluminum radiator, providing roughly 4500W of cooling with a 25°C ambient delta. Coolant flow rate, temperature, and reservoir level are monitored, and a USB port allows control and logging of most features using the Koolance System Monitor application.

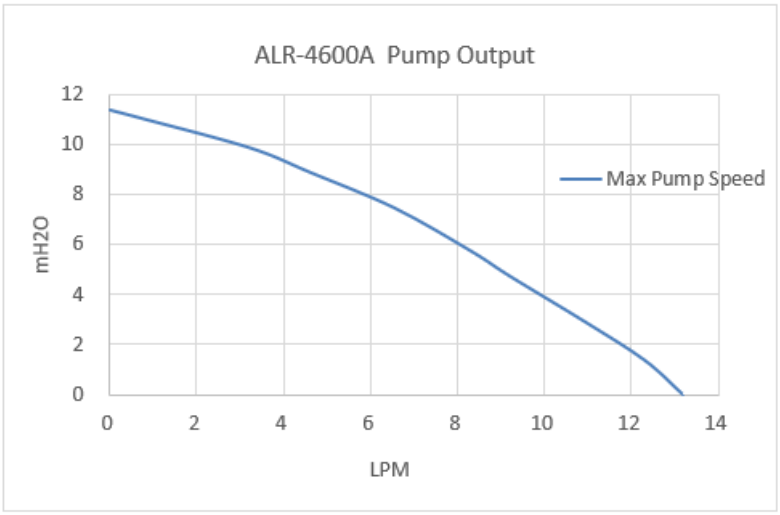
- Cooling capacity: 4500W (15,355BTU/hr) with 25°C liquid-ambient delta @ 12LPM
- Temperature in °C/°F with set-point based on: liquid, or one of two optional K-type thermocouples
- Pump: 10 manual levels, up to 13LPM (3.4GPM)
- Select only values you want displayed on the front 2-line OLED display (fixed or rotating)
- Show coolant flow rate in LPM/GPM
- Show pump impeller speed in RPM
- Enable audio alarms based on: temperature, flow rate, pump RPM, fan RPM, and reservoir coolant level
- Enable relay triggers (NO or NC) based on: temperature, flow rate, pump RPM, fan RPM, and reservoir coolant level
- 0-5V output for process monitoring, based on setpoint vs. liquid delta temperature
- Reservoir capacity: 0.8 liters (0.21 gallons)
- NPT 3/8in threads on back for fittings
- Includes C13 to NEMA 5-15 power cord

The cooling system can be positioned in multiple ways. Bracket feet are included for vertical operation, and rack ears for horizontal operation (the unit should be rack mounted when horizontal). The unit fits in a 19-inch, 3U rack profile. The front display can be rotated for these positions by hand.

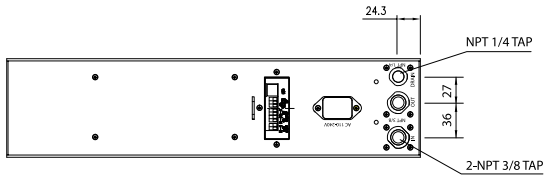
General	
Weight	25.00 lb (11.34 kg)
Fitting Thread	NPT 3/8
Max Pressure Tolerance @ 25°C	2kgf/cm2 (28.5psi)
Max Temperature Tolerance	60°C (140°F)
Min Temperature Tolerance (*No Freezing)	-20°C (-4°F)
Noise (dBA)	42-71
Cooling Systems	
Cooling Capacity	4500W (15,355BTU/hr)
Display Type	OLED
Max Flow Rate (10-13mm ID)	13LPM (3.4GPM)
Max Power Consumption	240W
Max Static Pressure (10-13mm ID)	1.1kgf/cm2 (15.6psi)
Power Source	100-240VAC, 50-60Hz

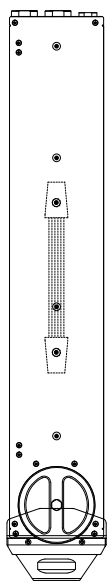
General	
Radiator	Aluminum, 8 x 120mm fans
Temperature Sensors	Liquid & Two K-Type Thermocouples (optional)
Temperature Stability	+/-0.5°C

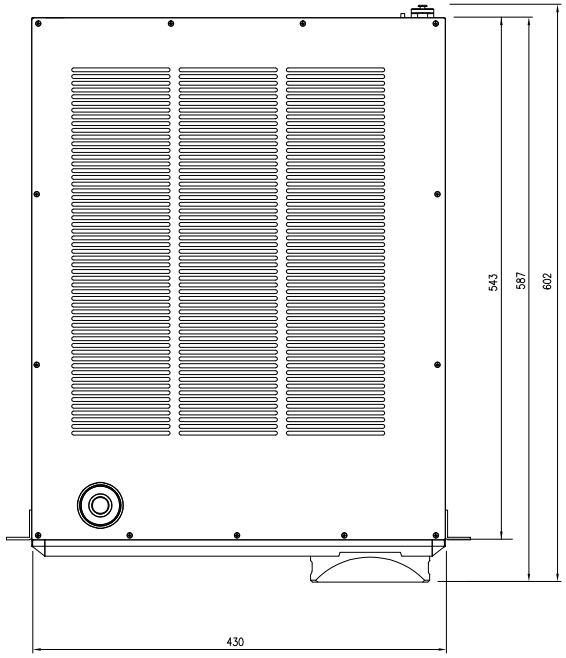


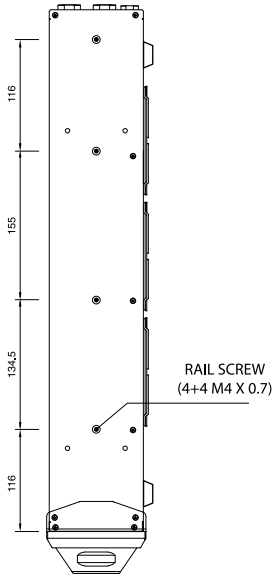


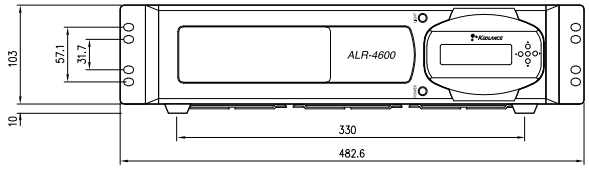
File











REV	DATE	CONTENTS	REVD BY	CHKD BY	APPD BY
1					

REVISION

NO.	DESCRIPTION	MATER'L	QUANTITY	REMARKS
KOOLANCE		UNIT MM	ITEM ALR-4600	
	BY / BY / BY / APPRO BY	SCALE N/S	TITLE ASSY	
DATE		3RD ANGLE		
2025.02.18	SK.AN	CODE NO.	DWG. NO.	PAGE