



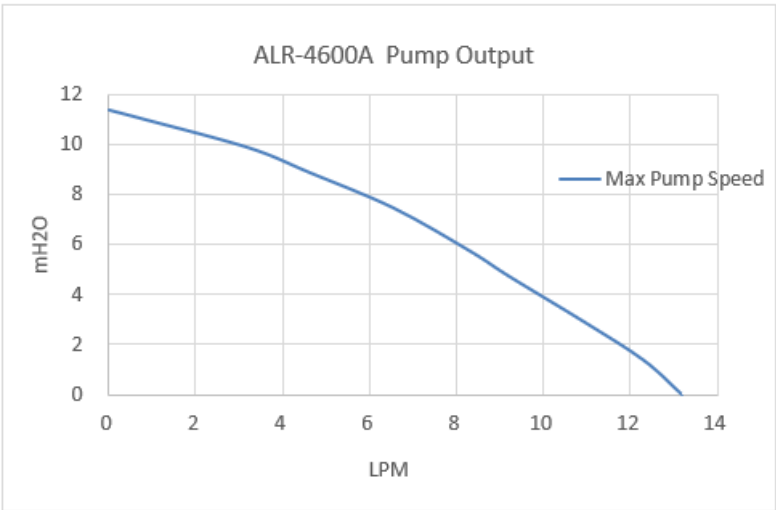
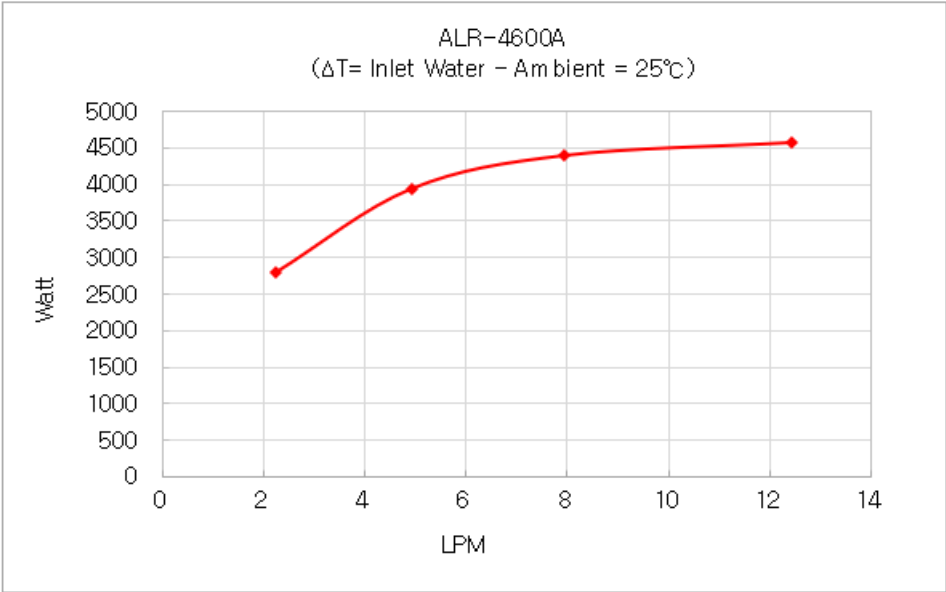
ALR-4600 is a high performance ambient liquid cooling system. It can be operated in horizontal or vertical orientations, and is rack-mountable. This model contains a large eight x 120mm fan aluminum radiator, providing roughly 4500W of cooling with a 25 °C ambient delta. Coolant flow rate, temperature,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

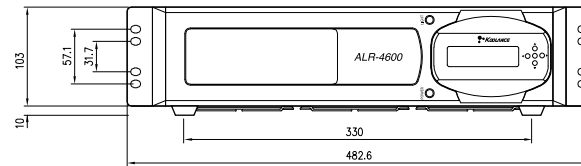
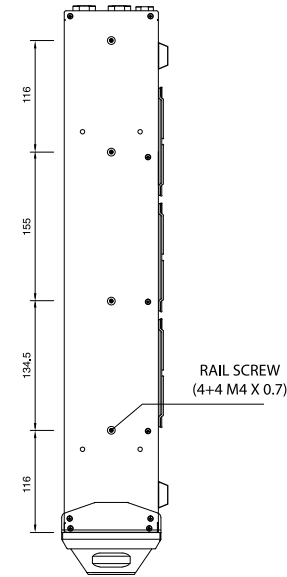
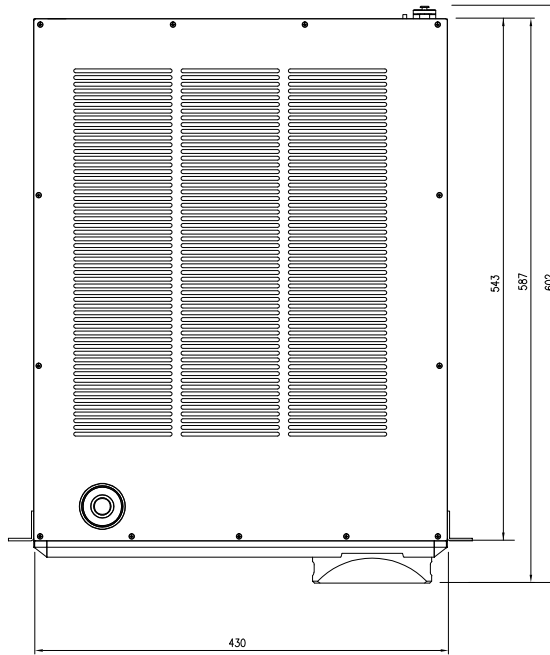
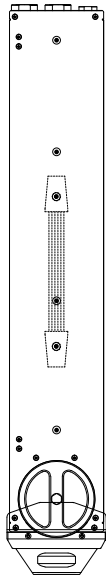
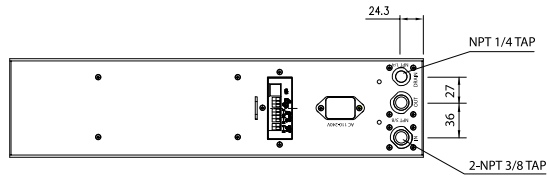
- Show coolant flow rate in LPM/GPM
 - Show pump impeller speed in RPM
 - Enable audio alarms based on: temperature, flow rate, pump RPM, fan RPM, and reservoir coolant level
 - Enable relay triggers (NO or NC) based on: temperature, flow rate, pump RPM, fan RPM, and reservoir coolant level
 - 0-5V output for process monitoring, based on setpoint vs. liquid delta temperature
 - Reservoir capacity: 2.5 liters (0.66 gallons)
 - NPT 3/8in threads on back for fittings
 - Includes C13 to NEMA 5-15 power cord
- 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)

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 |





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