

# LA PowerCool Series, LA-024-24-02

## Thermoelectric Assembly



### POWERCOOL SERIES LIQUID-TO-AIR THERMOELECTRIC ASSEMBLY

The LA PowerCool Series is a Liquid-to-Air thermoelectric assembly (TEA) that offers dependable, compact performance by cooling objects via liquid to transfer heat. Heat is absorbed through a liquid heat exchanger and dissipated thru a high density heat sink equipped with an air ducted shroud and brand name fan. The thermoelectric modules are custom designed to achieve a high coefficient of performance (COP) to minimize power consumption. This product series is available in a wide range of cooling capacities and voltages. Custom configurations are available, however, MOQ applies.

#### FEATURES

- Compact design
- Precise temperature control
- Reliable solid-state operation
- DC operation
- RoHS compliant

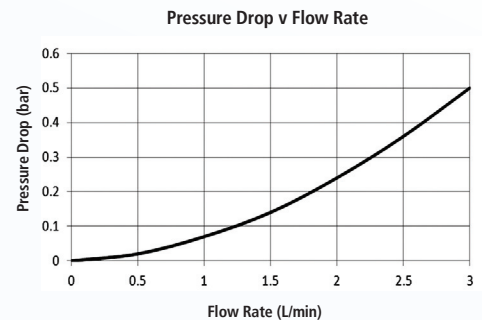
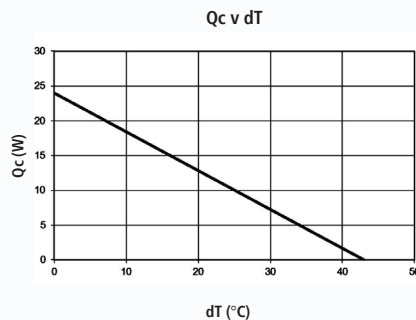
#### APPLICATIONS

- Analytical instrumentation
- Medical diagnostics
- Photonics laser systems
- Industrial instrumentation
- Food and beverage cooling

#### Specifications

Cooling Power Q <sub>cmax</sub> (W)	24
Running Current (A)	2.0
Startup Current (A)	2.8
Nominal Voltage (V)	24
Max Voltage (V)	30
Power Input (W)	48
Operating Temperature (°C)	-10 to 48
Weight (kg)	0.5
MTBF (fans – hrs)	50,000
Performance Tolerance	±10%

#### PERFORMANCE CURVE



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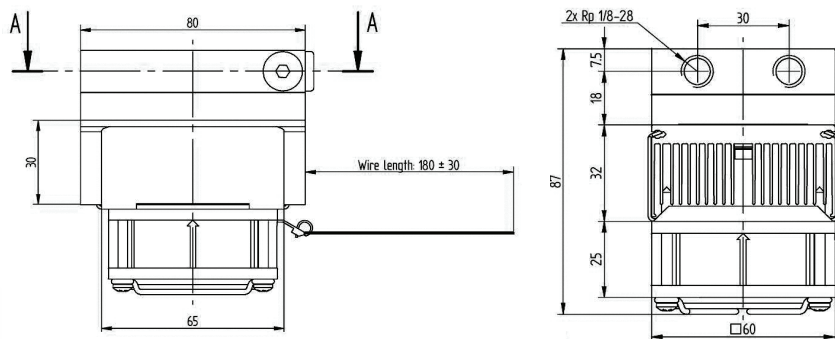
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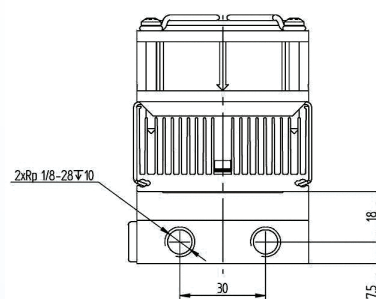
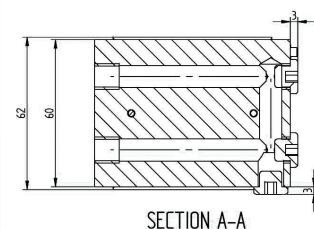
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### ISOMETRIC DRAWINGS



### MOUNTING HOLE LOCATION



### WIRING SCHEMATIC

Electrical connections:  
TEM+: Pink  
TEM-: Green  
FAN+: Purple  
FAN-: Blue

### NOTES

For indoor use only  
2x L-PNIPP-6-1/8 Turbulators included  
All dimensions in mm

THR-DS-LA-024-24-02 0212

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