

Outdoor Cooler Series Thermoelectric Cooler Assembly

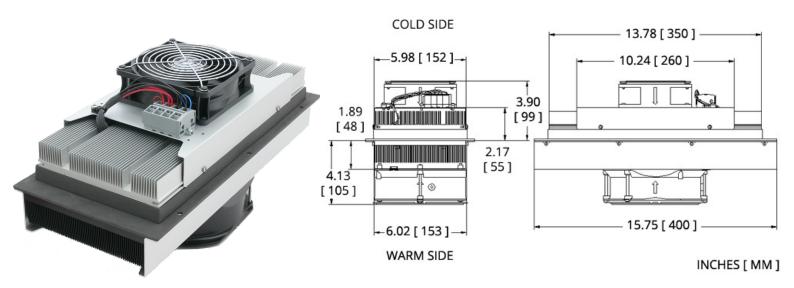
The AA-250-24-44 is an Air-to-Air thermoelectric cooler assembly that uses impingement flow to transfer heat. It offers dependable compact performance by cooling objects via convection. Heat is absorbed and dissipated through high density heat exchangers equipped with air ducted shrouds and brand name fans. The heat pumping action occurs from custom designed thermoelectric modules that achieve a high coefficient of performance (COP) to minimize power consumption. This model has been designed to pass rigorous Telcordia test requirements conducted by our customers such as earthquake resistance, salt, fog, wind-driven rain, high temperature exposure, and dust contaminants. This is due to the selection of world class components such as brand fans with the highest degree of environmental protection and lifetime guaranteed waterproof connectors heavy duty anodization on the high-density heat sinks overheat protection and double environmental seals for the thermoelectric modules.

Features

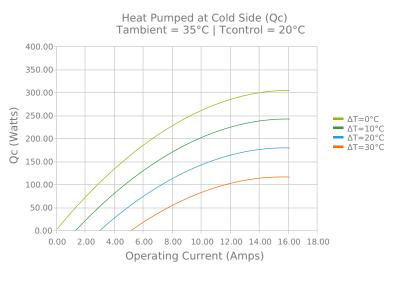
- Wide operating temperature range from -40°C to +55°C
- Meets Telcordia requirements
- Environmentally friendly solid-state operation
- No compressor or CFC refrigerants
- Optional bi-polar thermostatic control

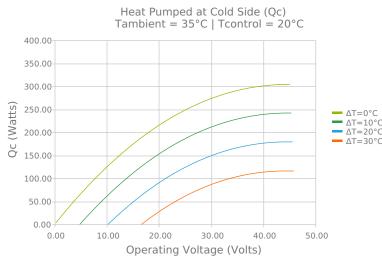
Applications

- Enclosure Cooling
- Cooling for Mobile Base Stations and Cell Towers
- Thermoelectric Cooling for Outdoor Kiosks
- Thermal Management Solutions for Beverage Cooling
- Energy Storage Systems

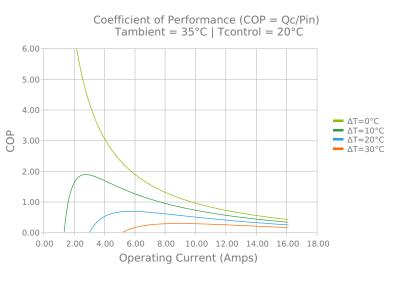


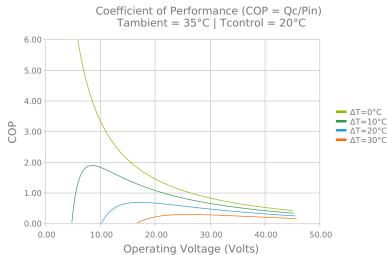
ELECTRICAL AND THERMAL PERFORMANCE

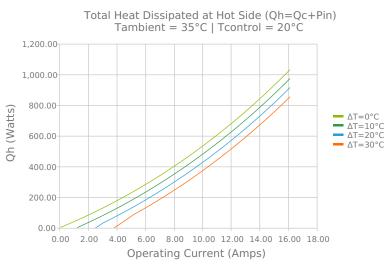


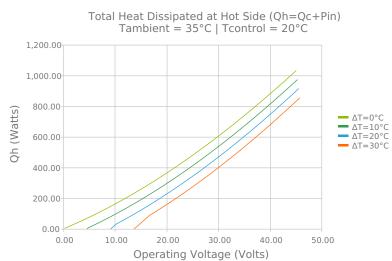


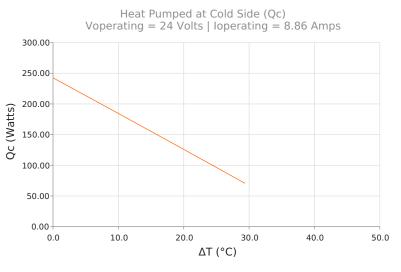


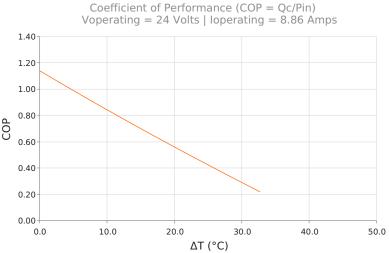














SPECIFICATIONS

Temperature Range (External Ambient)¹

Temperature Range (Internal Enclosure)

Supply Voltage

Current Draw

Power Supply

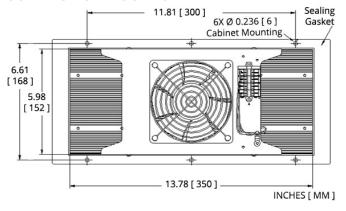
Performance Tolerance

Fan MTBF

Sound Level (1 m distance)

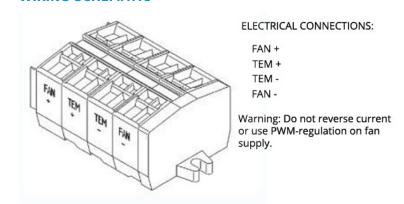
Weight

MOUNTING HOLE LOCATION



-40°C to 55°C
-20°C to 55°C
24.0 VDC nominal / 28.0 VDC maximum
12.1 A running / 15.1 A startup
290.4 Watts
10%
70,000 hours
63 dBA
6.30 kg

WIRING SCHEMATIC



NOTES

¹Controller function shall not operate the external fan during heating mode.

²Rating for unit without protective shroud. A higher degree of protection can be obtained with external shroud.

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