

Outdoor Cooler Series AA-250-24-44 MFG Part Number: 43700000108000 Legacy Product

Outdoor Cooler Series Thermoelectric Cooler Assembly Note: This product is not recommended for new designs.

Please use the recommended replacement: MFG Part Number: 387011578

Description: AAX-260-24-55

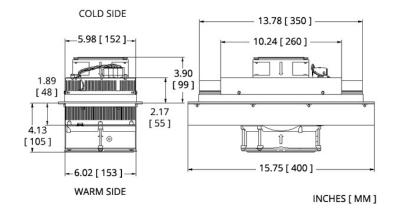
The AA-250-24-44 is an Air-to-Air thermoelectric cooler assembly that uses impingement flow to transfer heat. It offers dependable compact performance by cooling objects via convection. Heat is absorbed and dissipated through high density heat exchangers equipped with air ducted shrouds and brand name 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

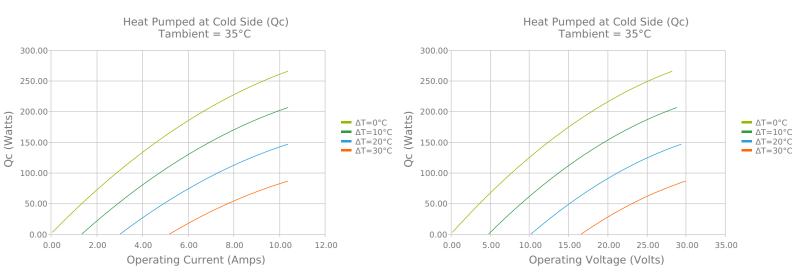
Applications

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

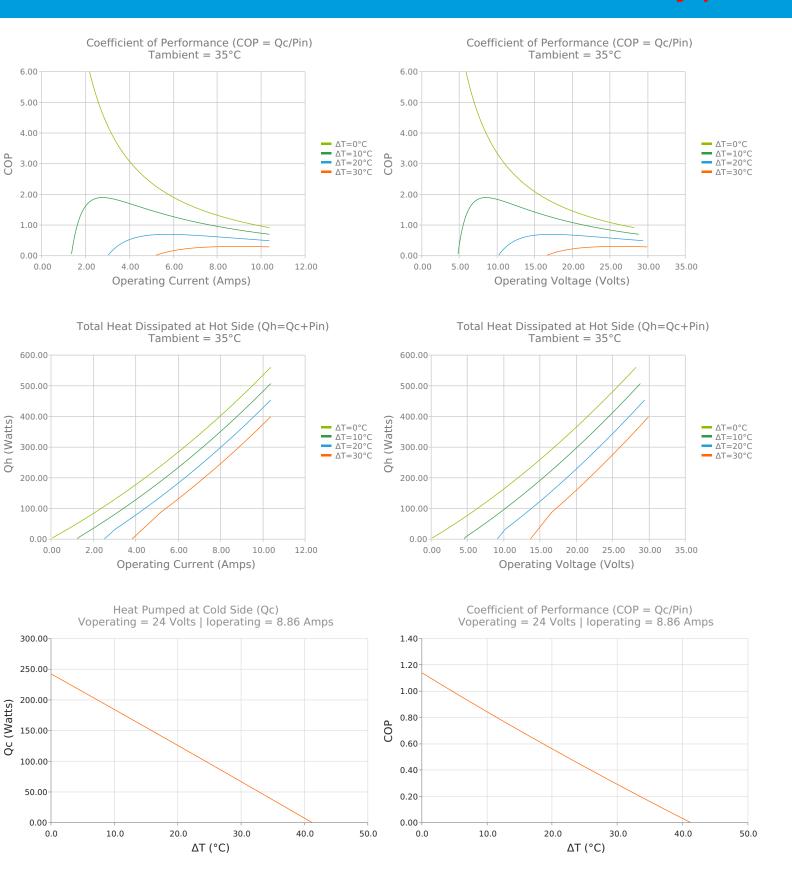


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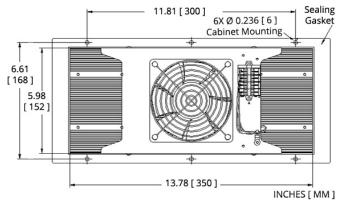


SPECIFICATIONS

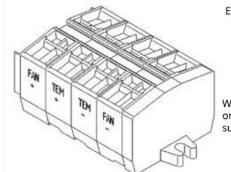
Heat Transfer Mechanism, Cold Side	Air - Forced Convection
Heat Transfer Mechanism, Hot Side	Air - Forced Convection
Temperature Range (External Ambient) ¹	-40°C to 55°C
Temperature Range (Internal Enclosure)	-20°C to 55°C
Supply Voltage	24.0 VDC nominal / 28.0 VDC maximum
Current Draw	12.1 A running / 15.1 A startup
Power Supply	290.4 Watts
Performance Tolerance	10%
Hi-Pot Testing	707 VDC
Fan MTBF	70000 hours
Heating ²	250 W
Over-Temp Thermostat (Hot and Cold Side Heat Sink)	$75^{\circ}C \pm 6^{\circ}C$ (accessory)
Sound Level (1 m distance)	63 dBA
Degree of Protection (Unit Internal Side)	IP54
Degree of Protection (Unit External Side) ³	IP54
Weight	6.30 kg
Panel Mounting	Through (From External Side)



MOUNTING HOLE LOCATION



WIRING SCHEMATIC



ELECTRICAL CONNECTIONS:

FAN + TEM + TEM -FAN -

Warning: Do not reverse current or use PWM-regulation on fan supply.

NOTES

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

²Heating capacity is rated at external temperature of -40°C, nominal voltage, and dT = -45°C.

³The highest environmental protection level NEMA 4 (IP55) requires an external shroud and is defined as the protection level for the enclosure.

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