Thermoelectric Cooler Assembly Air To Air







Description

Adaptive thermoelectric cooling assemblies come in direct to air, air to air and liquid to air variations comprising thermoelectric cooler module/s, heat exchangers, fan/s and thermal interfaces which are optimised for effective heat transfer.

European Thermodynamics are specialists in thermal management and thermoelectrics, developing the high performance thermoelectrics products and materials of the future. In Air-to-Air cooling assemblies heat is pumped from one side of the thermoelectric assembly (cold side) using Peltier thermoelectric modules and is dissipated from the other (hot side) of the assembly to the environment through the use of bespoke heat sinks and highly efficient DC axial fans. The thermoelectric modules, whose reliability and maintenance-free operation have been well proven, are carefully selected for each assembly in order to ensure the best cooling performance and to minimise power consumption.

Air-to-air assemblies are available in a variety of cooling power outputs with a range of supply voltages.

Features

- Easy to install
- High reliability
- Low noise
- Precise temperature control

Applications

- Incubator
- Battery compartment
- Various types of cabinets

Specification

: 250W Maximum cooling power Nominal voltage : 48V : 52.8V Maximum voltage Maximum current : 7.5A Power input : 290W

Operating temperature : -20°C to +55°C

Weight : 7.1kg : 10% Performance tolerance

L10 of fans at 40°C : Hot side:90000hrs Cold side:70412hrs

TEC hot side

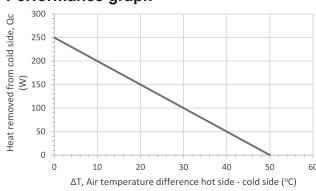
temperature protection

Hot side IP code : IP54

Fan : Dual ball bearing fan with

UL approval

Performance graph



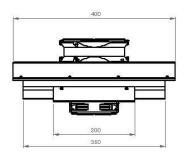
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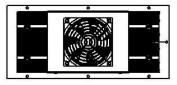
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Diagram







Dimensions: Millimetres

Part Number Table

Description	Part Number
Thermoelectric Cooler, Adaptive Valve, Air To Air, 250W, 48V DC	MP-AR-AR-250-48-ADV

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