AR-AR-070-24-ADV

Adaptive Value - Air to Air Thermoelectric Cooler Assembly

About Adaptive Cooler Assemblies

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.

Data

Maximum cooling power	[W]	70
Nominal voltage	[V]	24
Maximum voltage	[V]	30
Maximum current	[A]	3.4
Power input	[W]	81.6
Operating temperature	[°C]	-10 to +48
Weight	[kg]	TBA
Performance tolerance	[%]	10
L10 of fans at 40°C	[hrs]	TBA

Benefits

- Easy to install
- High reliability
- ROHS/REACH compliant
- Low noise
- Precise temperature control

Recommended for use with

- JUNIOR PID PWM Thermal Controller - accurate to 0.5° (ADJ-48-450-UR) or
- CYCLO Servo PWM Thermal Controller - accurate to 1° (ADC-48-450-U)

Applications

- Incubator
- Battery compartment
- Various types of cabinets

Adaptive is a registered trademark of European Thermodynamics Limited.
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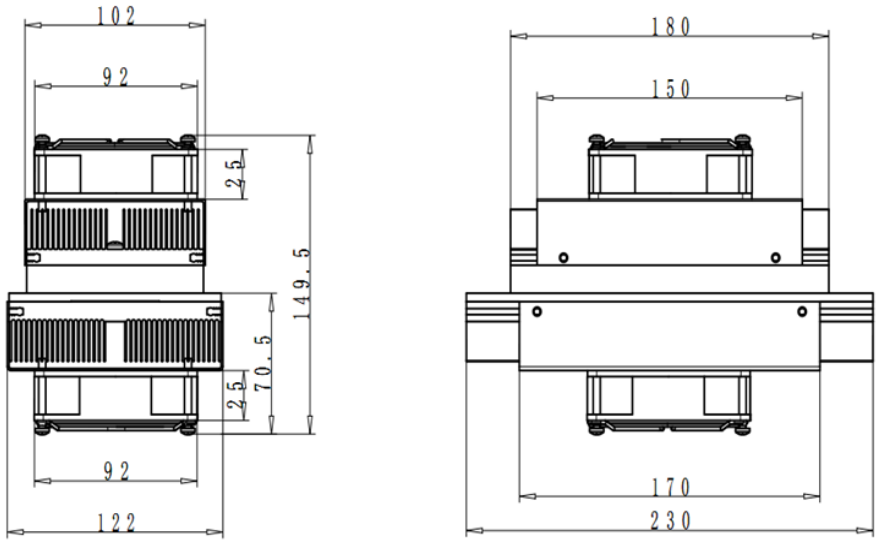
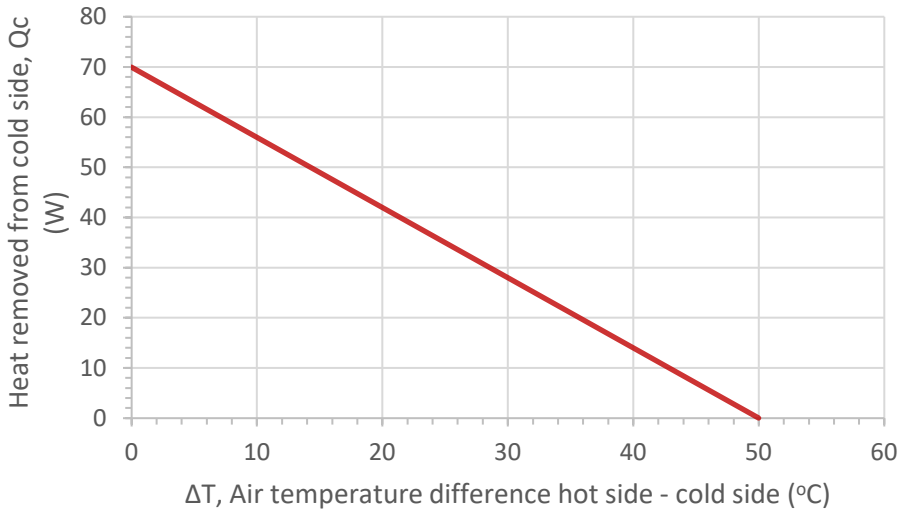
Dimensions



Performance graph