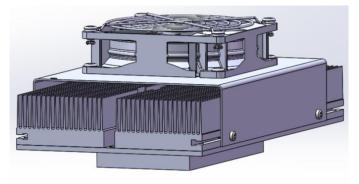


DT-AR-075-24

Direct-to-Air Thermoelectric Cooling Assembly

Direct-to-Air Thermoelectric Cooling Assembly

The Direct-to-Air Thermoelectric cooling assemblies are compact devices that can be used to cool down objects through conduction. The objects to be cooled down are mounted onto the metallic plate at the 'cold side' of the



assembly from where heat is pumped by Peltier thermoelectric modules and dissipated to the environment through the use of bespoke heat sinks and highly efficient DC fans at the hot side of the assemblies. The thermoelectric modules, whose reliability and maintenance-free operation has been proven by the years, are carefully selected for each assembly to ensure the best cooling performance and minimise power consumption.

Direct-to-air assemblies are available in a variety of cooling power outputs and either in 12V or 24V, as indicated by the part number (i.e. DT-AR-XXX-12 or DT-AR-XXX-24).

Bespoke solutions/configurations are offered, as well as moisture protection options, however these are only available for large order quantities (minimum order quantities apply).

I hermal Management

CHARACTERISTICS ROHS

- Reliability
- Compact design
- Excellent Control over Temperature
- DC operation (12V or 24V nominal voltage input)
- Thermoelectric modules with high Coefficient of Performance (COP)
- RoHS compliant

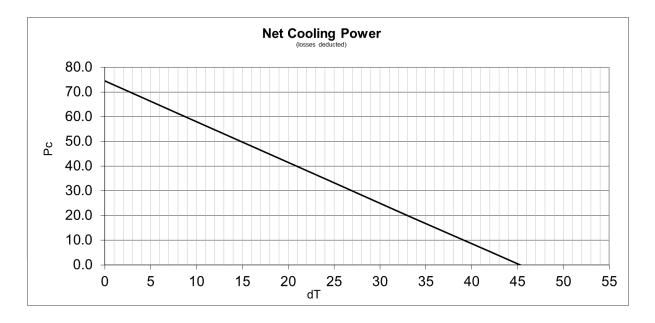
MAIN APPLICATIONS

- Electronics' cabinets
- Medical instrumentation
- Analytical diagnostics
- Industrial automation
- Food and beverage cooling
- Laser systems' cooling

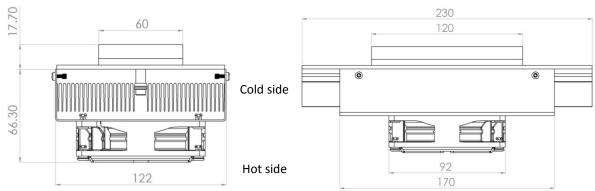
74.5
24
30
3.83
5.125
45.96
-10 to 47
1.7
±10
20932

DT-AR-075-24 – Assembly Specifications

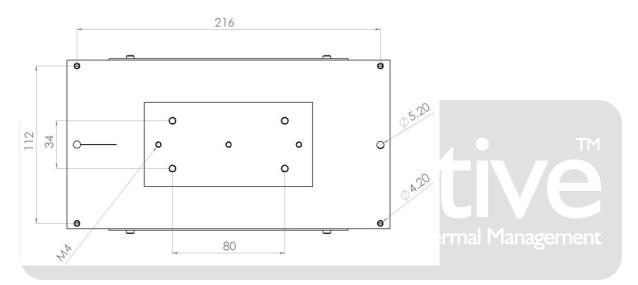
PERFORMANCE CURVE



TECHNICAL DRAWINGS



LOCATION AND DIMENSIONS OF MOUNTING HOLES



Notes:

- 1. All dimensions are in mm.
- 2. Thermally conductive interface material is applied on thermoelectric modules' surfaces for more efficient heat transfer.
- 3. The assembly, with its current configuration, is for indoor use only.

Contact us:

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or send us an email at: Information: <u>info@etdyn.com</u> R&D: design@etdyn.com

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