

Air-to-Air Thermoelectric Assembly

Model CA-040-AA-12-00



Description

Air-to-Air thermoelectric assemblies are used to cool (or heat) the inside of cabinets or enclosures. Heat dissipated by electronics or other equipment will be pumped out of the cabinet and will be discharged to the environment. Because no refrigerant liquid (CFC's) is used, the assemblies are friendly for our environment. Our coolers operate 100% on a DC-voltage. They are ready to use. The installation is easy by making an opening in the cabinet, move the cold (blue) side of the assembly from the outside into the hole and use screws to fix it. When it is expected to reach the dew point (100% R.H.) inside the cabinet, you need to mount the assembly in a vertical position to allow moisture on the cold side heat sink to drip down between the ribs. Stainless steel collection gutters are available to drain the moisture and to prevent damaging equipment. Our standard coolers are designed for indoor use. Waterproof versions are available as well. Because we design and build our coolers in-house, we are able to build special versions quickly. Please ask for the possibilities.

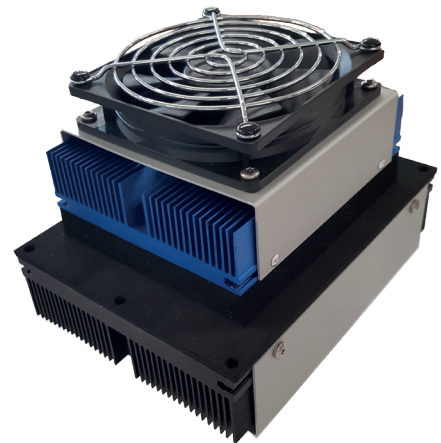


Product photo

Technical specifications

Cooling power (at 0°C dT)	: 39 Watt (±10%)*
Supply	: 12 VDC
Nom. current (excl. fan)	: 6,2 A
Initial current (excl. fan)	: 7,6 A
Fan(s) current at 12 VDC	: 0,52 A (total)
Power consumption (nom.)	: 79 W (±10%)
Max. ambient temperature	: +48°C
Thermostat (Over Heat)	: 75°C ±5°C
Weight	: 1,8 kg
CE / RoHS 2 compliant	: yes
Packing	: Individual carton box

* at 25°C ambient temperature



Product photo

Benefits & Application areas

BENEFITS

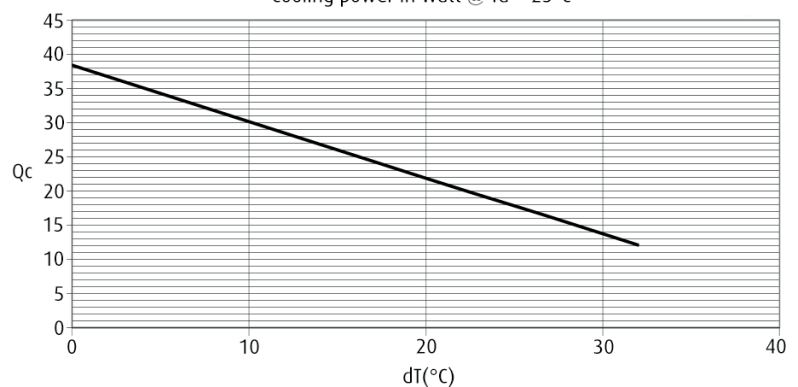
- Compact design
- High density heat sinks
- DC operation
- Easy installation
- Reliable solid-state technique

APPLICATION AREAS

- Electronic/electrical cabinets and enclosures
- Analytical and medical instrumentation
- Portable cooling applications
- Dehumidification
- Food and beverage
- Wine cabinets

Performance graph

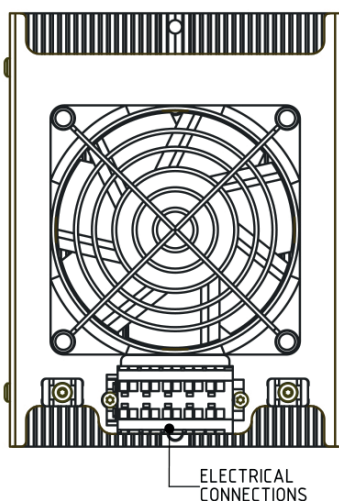
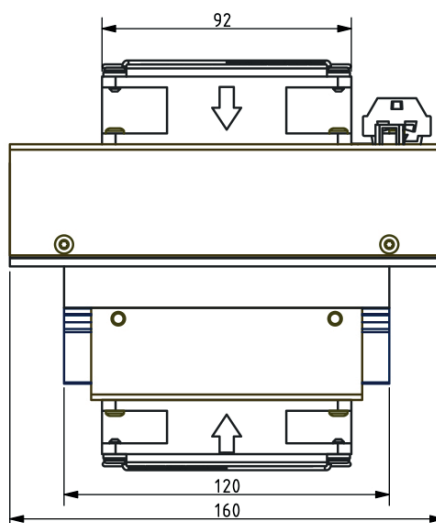
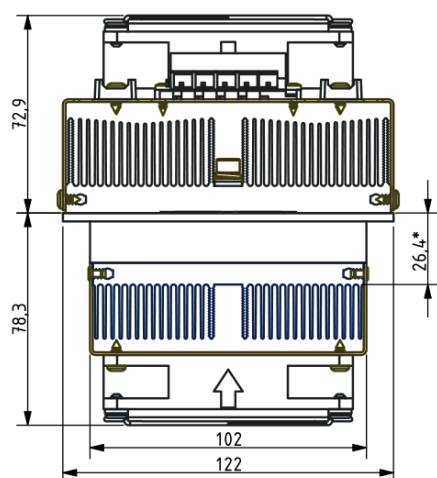
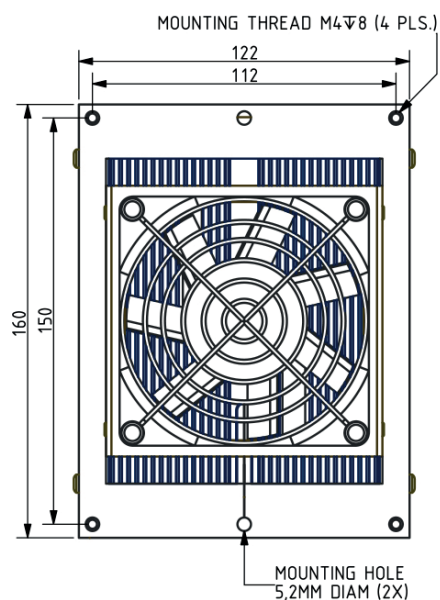
Cooling power in Watt @ Ta = 25°C



* All specifications are subject to change without notice.

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Dimensions



* When the wall of your cabinet is thicker than 26,4mm, you have to take care that the outflow of air is not blocked. When you make the opening in the wall, counting from the outside, cut/saw with a slope of 30-45° to enable the cooled air to flow back into the cabinet without obstructions.

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