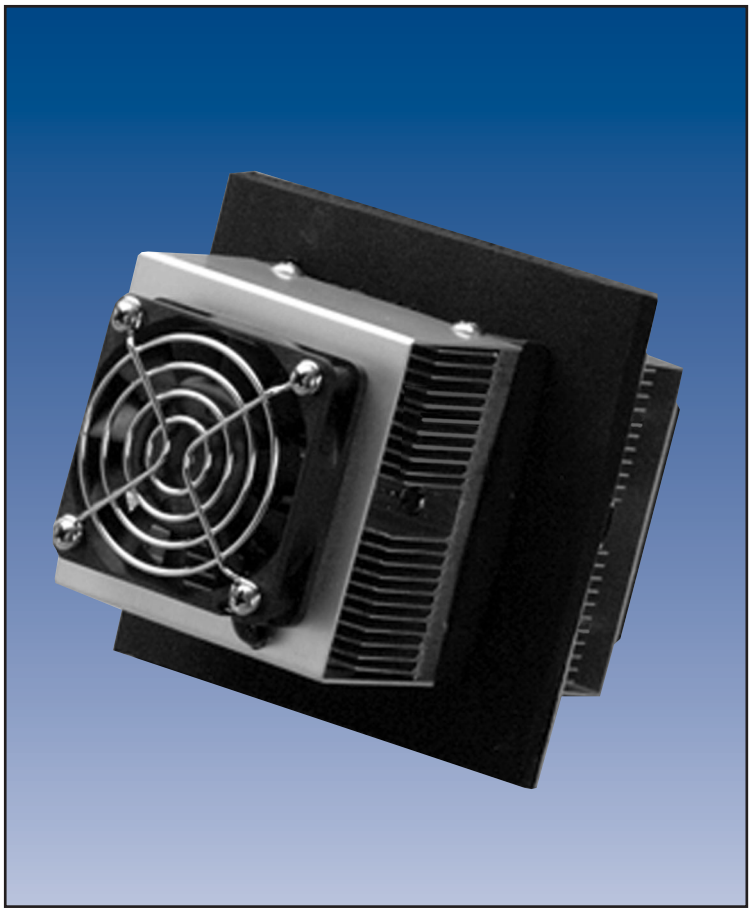
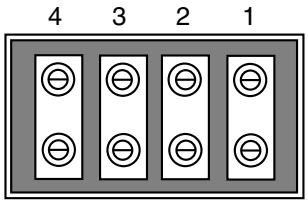


Model MAA050T-12

MAA050T-12

The MAA050T-12 Thermoelectric air conditioner is designed for small electronic cabinets and environmental chambers. It can cool to 68˚F below ambient or maintain ambient temperatures while removing up to 50 BTU/Hr (@ 77˚F ambient). Because there is no air exchanged between the cabinet and the ambient, the MAA050T-12 is ideal for NEMA 12 requirements. This air conditioner is virtually maintenance-free, with no filters to change, and can be mounted in any orientation, offering design flexibility with solid-state reliability.

Wiring Schematic (Power Connector)



Position	Description
1	TEC +
2	TEC -
3	FAN +
4	FAN -

Specifications:	
Model:	MAA050T-12
Capacity	50 BTU/Hr (15 Watts)
Input Voltage	12 VDC
Max. Ambient Temp.**	140˚F / 60˚ C
Current (Running)	3.0 amps
Weight	1.8 lbs. (0.82 kg)
Rating Maintained	NEMA 12
Overall Dimensions	4.5” H x 4.5” W x 6.0” D (114mm x 114mm x 152mm)

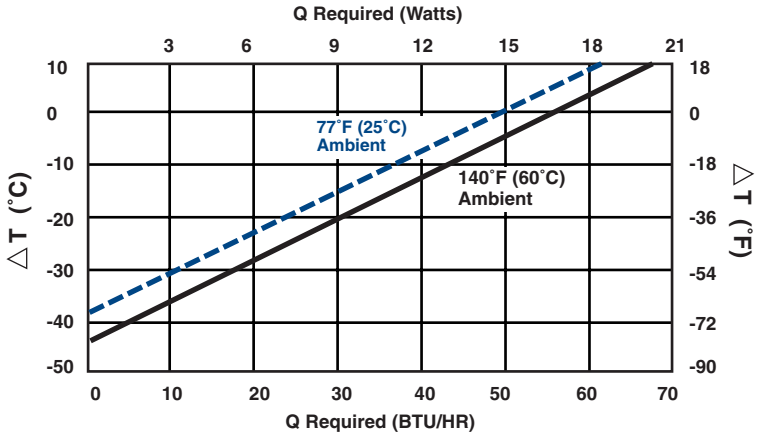
** Consult MELCOR for higher ambient temperature.

Model Number Nomenclature

M A A 050 T – 12

- 12 — DC Voltage
- T — Thru Mount
- 050 — Capacity (BTU/Hr)
- A — Ambient Side (Air)
- A — Cabinet Side (Air)
- M — MELCOR

Performance Curve: MAA050T-12



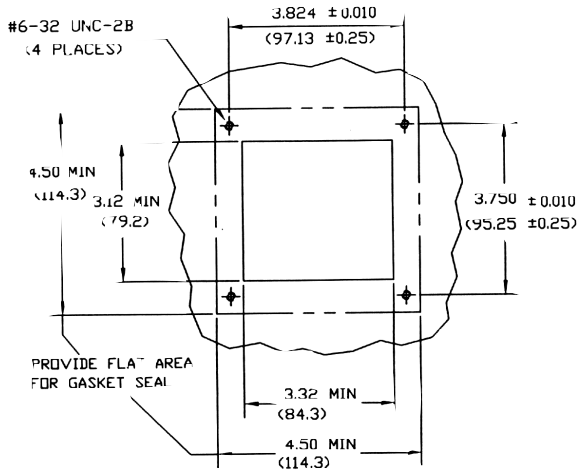
△T = Tmax Cabinet - Tmax Ambient

Important:

The air conditioner performance curves are dependent upon active and passive heat loads. To calculate passive cabinet heat gain, see the instructions on pages 6 and 7.

For assistance contact MELCOR.

Installation Cutout



Dimensional Drawing

Inches (mm)

