



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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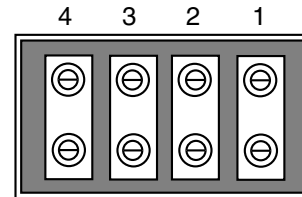
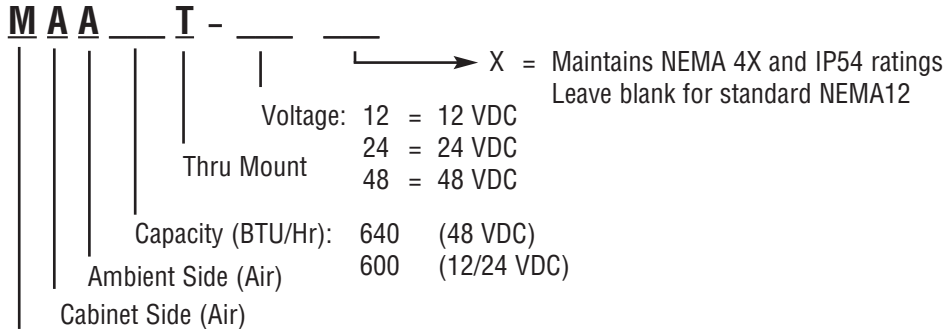
Model MAA600T-24

MAA640T-48 MAA600T-12/24

The MAA640T-48 and the MAA600T-12/24 Thermoelectric air conditioners are designed for electronic cabinets, refrigeration and environmental chambers. They can cool to 78°F below ambient or maintain ambient temperature while removing up to 640 BTU/Hr (@ 77°F ambient). These units offer increased capacity within a compact design, making them ideal where space is limited. Because there is no air exchanged between the cabinet and the ambient, the MAA640T-48 and MAA600T-12/24 are ideal for NEMA 12 environments. Optionally, a harsh environment version of this series, suitable for maintaining NEMA 4X or IP54 ratings is available. These air conditioners are virtually maintenance-free, with no filter to change, and can be mounted in any orientation, offering design flexibility with solid-state reliability.

Wiring Schematic (Power Connector)

Model Number Nomenclature



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

MELCOR



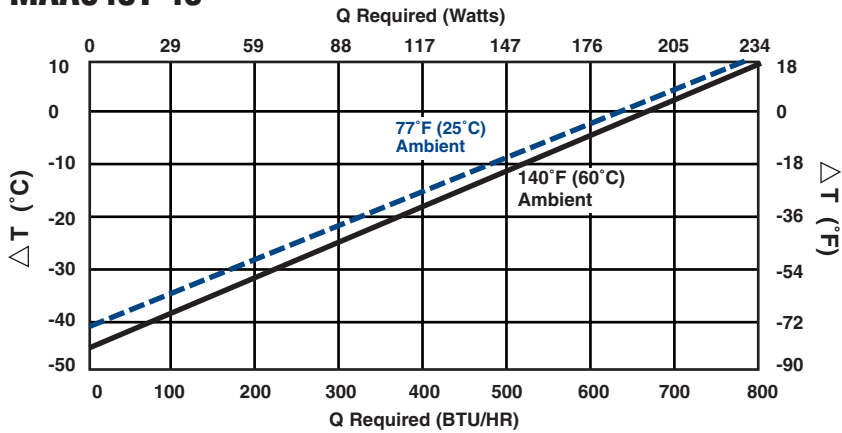
Specifications:

Model:	MAA600T-12	MAA600T-24	MAA640T-48
Capacity	600 BTU/Hr (176 Watts)	600 BTU/Hr (176 Watts)	640 BTU/Hr (188 Watts)
Input Voltage	12 VDC	24 VDC	48 VDC
Max. Ambient Temp.**	140°F / 60°C	140°F / 60°C	140°F / 60°C
Current (Running)	29.0 amps	14.5 amps	9.0 amps
Weight	16.3 lbs. (7.4 kg)	16.3 lbs. (7.4 kg)	16.3 lbs. (7.4 kg)
Rating Maintained	NEMA 12 or 4X / IP54	NEMA 12 or 4X / IP54	NEMA 12 or 4X / IP54
Overall Dimensions	10" H x 7" W x 9.6" D 254mm x 178mm x 244mm	10" H x 7" W x 9.6" D 254mm x 178mm x 244mm	10" H x 7" W x 9.6" D 254mm x 178mm x 244mm

** Consult MELCOR for higher ambient temperature.

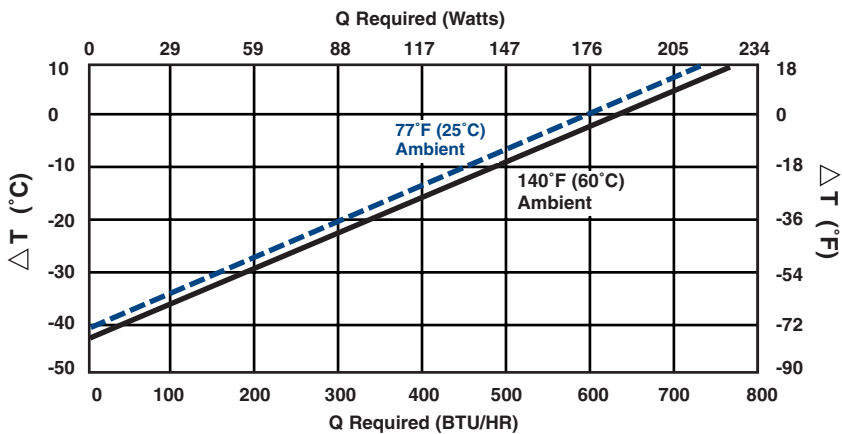
Performance Curves:

MAA640T-48



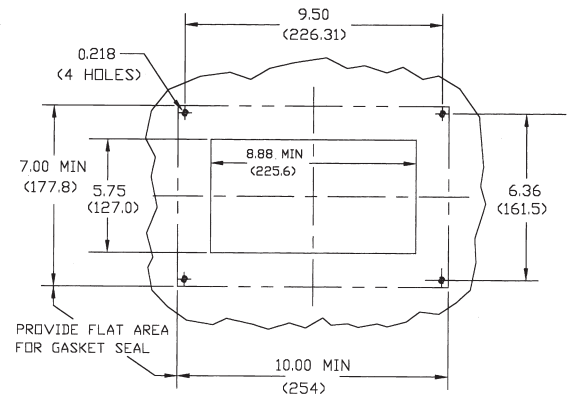
Important:
 The air conditioner performance curves are dependent upon active and passive heat loads. To calculate passive cabinet heat gain, see the instructions on pages 6 and 7. For assistance contact MELCOR.

MAA600T-12/24



$\Delta T = T_{max \text{ Cabinet}} - T_{max \text{ Ambient}}$

Installation Cutout



Dimensional Drawing

