

Model MAA600T-24

Model Number Nomenclature

## 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)

#### MAA T- $\rightarrow$ X = Maintains NEMA 4X and IP54 ratings Leave blank for standard NEMA12 Voltage: 12 = 12 VDC 24 = 24 VDCThru Mount 48 = 48 VDCCapacity (BTU/Hr): 640 (48 VDC) 600 (12/24 VDC) Ambient Side (Air) Cabinet Side (Air) ŸL) ∰ (€ MELCOR

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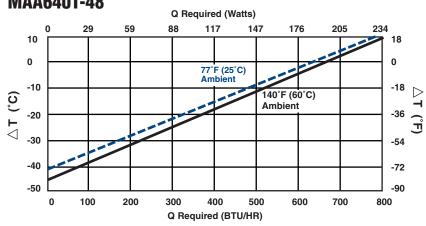
Position	Description	
1	TEC +	
2	TEC -	
3	FAN +	
4	FAN -	

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	10" H x 7" W x 9.6" D	10" H x 7" W x 9.6" D
	254mm x 178mm x 244mm	254mm x 178mm x 244mm	254mm x 178mm x 244mm

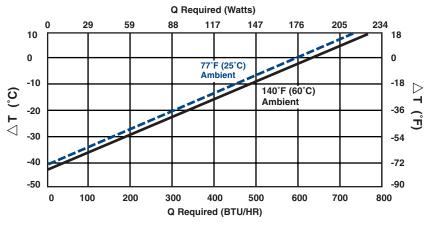
\*\* Consult MELCOR for higher ambient temperature.

# **Melor** Thru Mount Thermoelectric Air Conditioners

### **Performance Curves: MAA640T-48**



### MAA600T-12/24



 $\triangle T$  = 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** 

