

Air to Plate Thermoelectric Assembly



ATS PART# ATS-FP-70W-12-C

ATS' air to plate thermoelectric assemblies are heat exchangers for removing heat from a plate attached to its cold side. The plate can be used for mounting electronic components, boards or test specimens used for maintaining a constant temperature.

FEATURES & BENEFITS

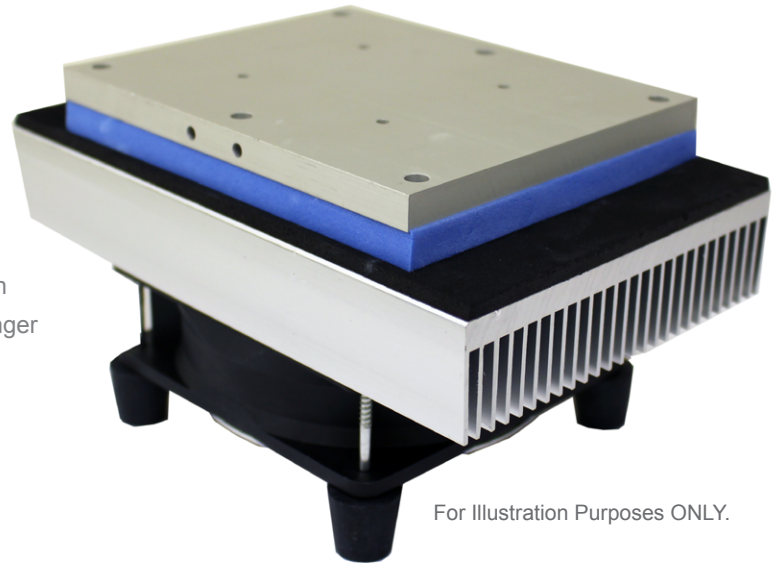
- » Compact and lightweight
- » Can be mounted in any orientation
- » No compressor
- » Virtually maintenance free
- » Simple quick installation
- » Air to plate heat exchanger
- » Quiet operation
- » Uses thermoelectrics

SPECIFICATION

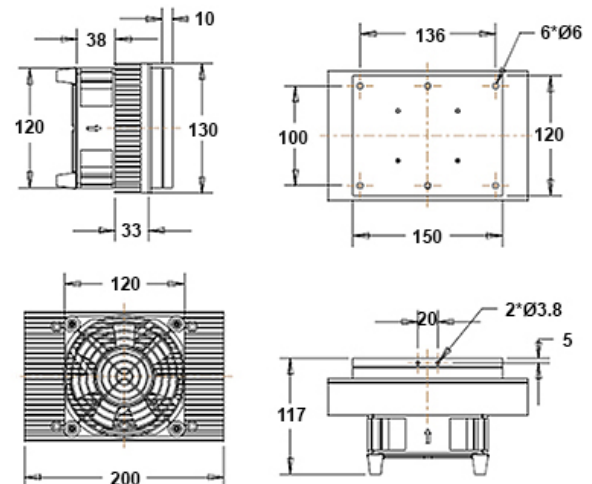
Max Cooling power	56W @ $\Delta T = 0^{\circ}\text{C}$
TEC Voltage	12 VDC
TEC Current	Start 10 A / Working 8.4 A
Fan Voltage	12 VDC
Fan Current	0.5A

APPLICATIONS

- » Electronics cooling
- » Medical, surgical and biological process cooling
- » Thermal management
- » Medical equipment
- » Cold plates
- » Isothermal plates
- » Industrial storage and food transportation

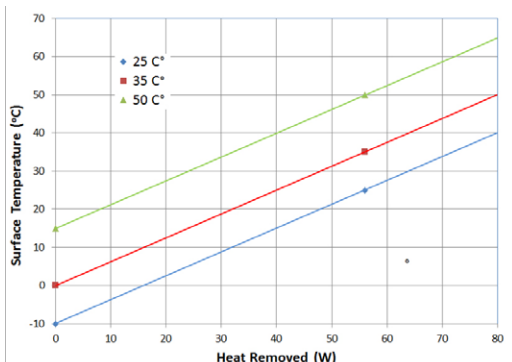


For Illustration Purposes ONLY.



Product Detail

Max Cooling Power	TEC Voltage	TEC Current	Hot Side Fan	Cold Side Fan	Operating Temperature	Dimensions (mm)	Weight
56W	12V	8.4A	120x120x38 mm 12V, 0.5A	NA	0°– 70°	200x130x117	2.6 Kgs



NOTES:

- Please use the 12 VDC power with the ripple less than 10%
- Please do not drop, otherwise TEC can get damaged.
- Please keep 10cm distance from walls for proper ventilation when mounting.
- Please do not use it when the temperature of the assembly or environment is higher than 70°C.
- The graph is an example of when plate temperature is 50°C and the environment temp is 50°C, the cooler can transfer 70W heat from the plate to outside.
- $\Delta T = T_{\text{plate}} - T_{\text{ambient}}$



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