

Air to Air Thermoelectric Assembly



ATS PART# ATS-WFF-100W-12-C

ATS' air to air thermoelectric assemblies are heat exchangers that remove heat from an enclosure and are designed for temperature regulation of small electronic cabinets or enclosures. They are often used when it is better to circulate cooled air rather than use direct contact with a cold plate.

FEATURES & BENEFITS

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

SPECIFICATION

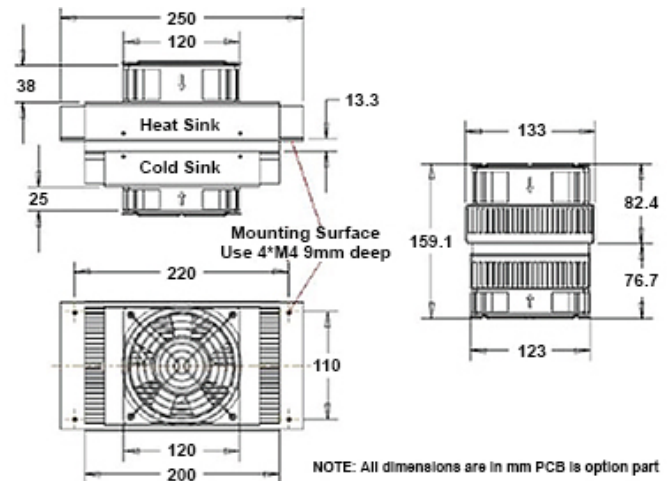
Max Cooling power	59W @ $\Delta T = 0^{\circ}\text{C}$
TEC Voltage	12 VDC
TEC Current	Start 17 A / Working 14 A
Hot side fan	0.90 A @ 12V
Cold side fan	0.28A @ 12V
Fan Voltage	12 VDC

APPLICATIONS

- » Enclosure or cabinet cooling
- » Electronics cooling
- » Medical, surgical and biological process cooling
- » Thermal management
- » Medical equipment
- » Refrigerators and water coolers
- » Industrial storage and food transportation



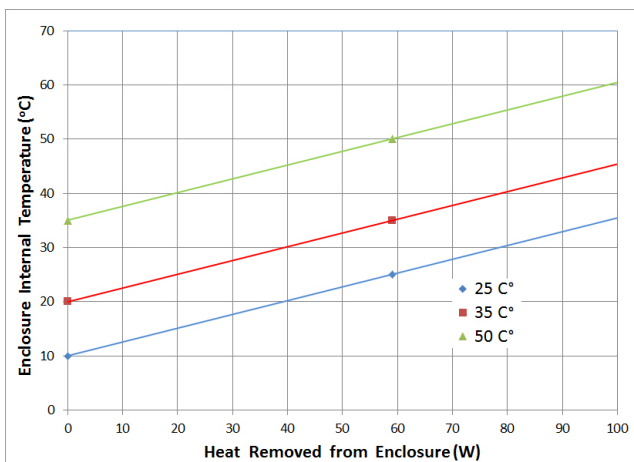
For Illustration Purposes ONLY.



NOTE: All dimensions are in mm PCB is option part

Product Detail

Max Cooling Power	TEC Voltage	TEC Current	Hot Side Fan	Cold Side Fan	Operational Temperature	Dimensions (mm)	Mounting Holes (mm)	Weight
59W	12V	14A	120x120x38 mm 12V 0.9A	120x120x25 mm 12V 0.28A	0° – 50°	250x133x159.1	250x110	3.7 Kgs



NOTES:

- Please use the 12 VDC power with the ripple less than 10%
- Please do not drop, otherwise component can crack and damage the TECs.
- 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.
- Graph shows an example of when cabinet temperature is 50°C and the environment temp is 50°C, the cooler can transfer 59W from the cabinet to the ambient.
- $\Delta T = T_{\text{enclosure}} - T_{\text{ambient}}$



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