

# Air to Air Thermoelectric Assembly



## ATS PART# ATS-WFF-150W-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

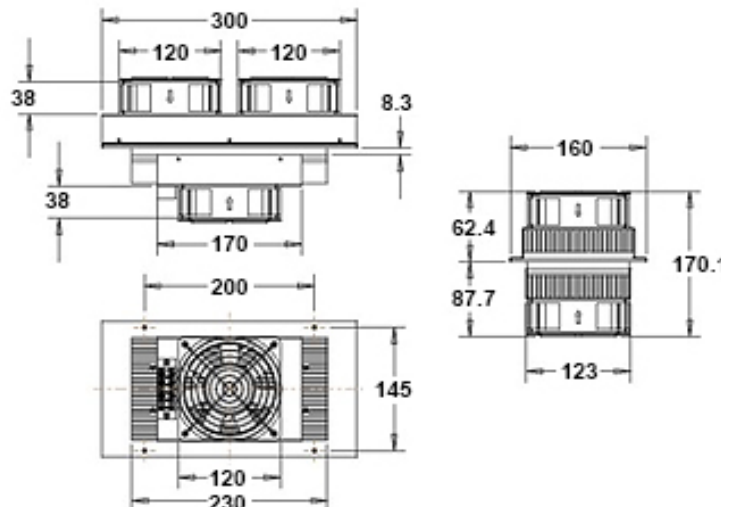
Max Cooling power 83W @  $\Delta T = 0^\circ$   
 TEC Voltage 12 VDC  
 TEC Current Start 19 A / Working 16.4 A  
 Fan Voltage 12 VDC

### 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

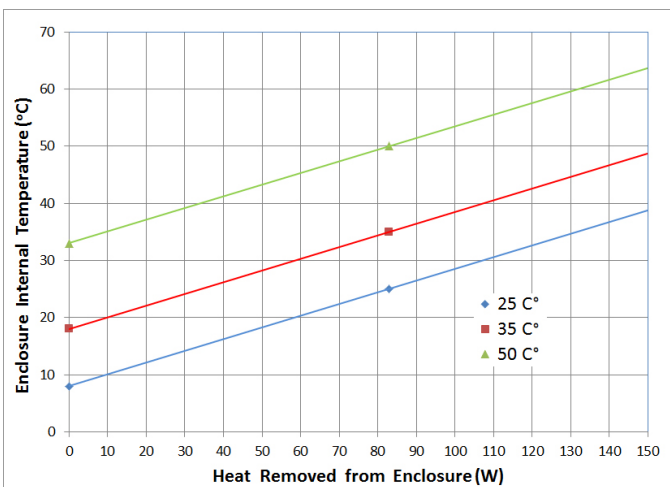


For Illustration Purposes ONLY.



### Product Detail

Max Cooling Power	TEC Voltage	TEC Current	Hot Side Fan	Cold Side Fan	Operating Temperature	Dimensions (mm)	Mounting Holes (mm)	Weight
83W	12V	16.5A	120x120x38 mm 12V 0.5A	120x120x38 mm 12V 0.5A	0° – 70°	300x160x170.1	200x145	4.5 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 83W from the cabinet to the ambient.
- $\Delta T = T_{\text{enclosure}} - T_{\text{ambient}}$



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