

# Air to Air Thermoelectric Assembly



## ATS PART # ATS-FF-200W-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

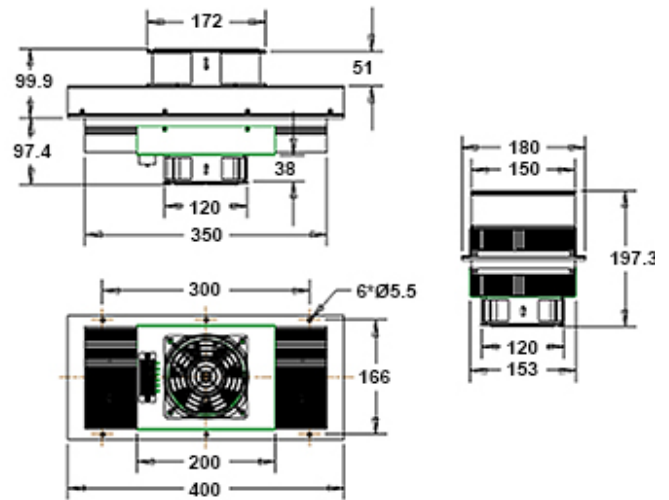
Max Cooling power	140W @ $\Delta T = 0^{\circ}\text{C}$
TEC Voltage	12 VDC
TEC Current	Start 27.0 A / Working 23A
Fan Voltage	12 VDC

### 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

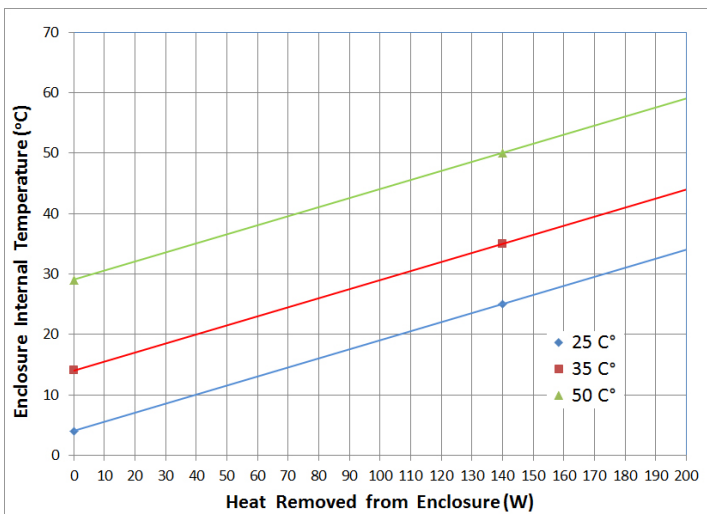


For Illustration Purposes ONLY.



### Product Detail

Max Cooling Power	TEC Voltage	TEC Current	Hot Side Fan	Cold Side Fan	Operating Temperature	Dimensions (mm)	Mounting Holes (mm)	Weight
140W	12V	23A	172x172x51 mm 12V, 0.8A	120x120x38 mm 12V, 0.5A	-10° – 70°	400x180x197.3	300x120	7.1 Kgs



### NOTES:

- Please use 24 VDC power supply with the ripple less than 10%
- Please do not drop, or the TEC can get damaged.
- Please keep 10cm distance from walls for proper ventilation when mounting.
- Please do not use it when temperature of the assembly or environment is higher than 70°C.
- The graph is an example of when cabinet temperature is 50°C and the ambient temp is 50°C, the cooler can transfer 140W heat from the cabinet to outside.
- $\Delta T = T_{\text{enclosure}} - T_{\text{ambient}}$



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