

Air to Air Thermoelectric Assembly

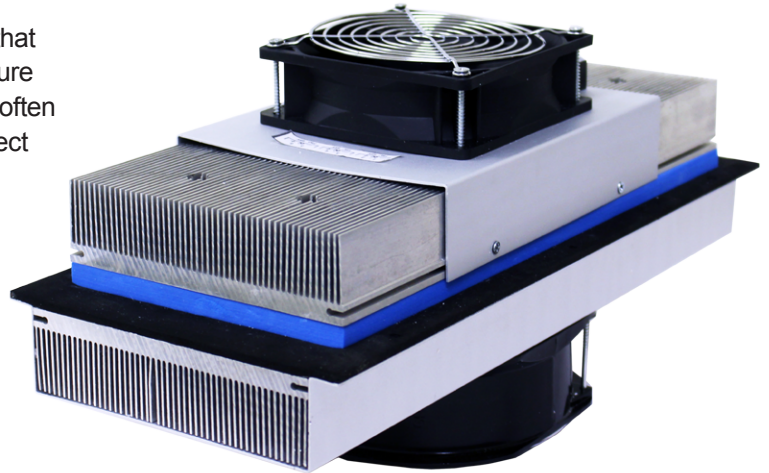


ATS PART# ATS-FF-200W-48-C

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



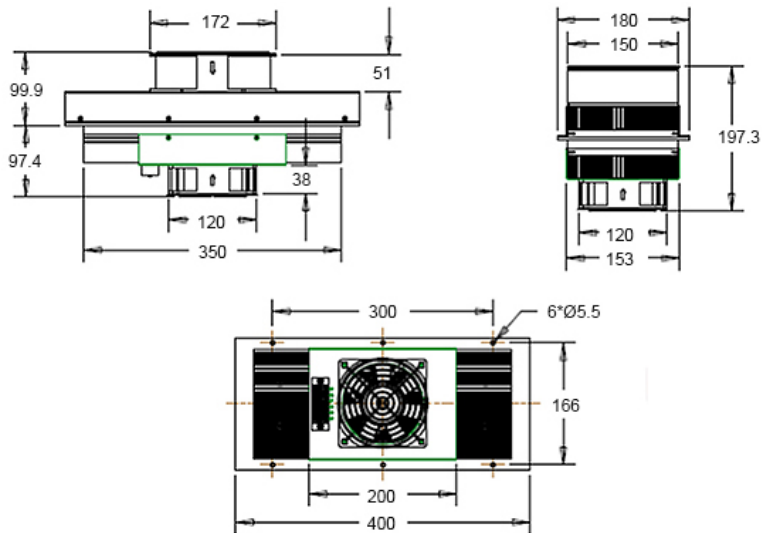
For Illustration Purposes ONLY.

SPECIFICATION

| | |
|-------------------|-------------------------------------|
| Max Cooling power | 150W @ $\Delta T = 0^\circ\text{C}$ |
| TEC Voltage | 48 VDC |
| TEC Current | Start 7.0 A / Working 5.6 A |
| Fan Voltage | 48 VDC |

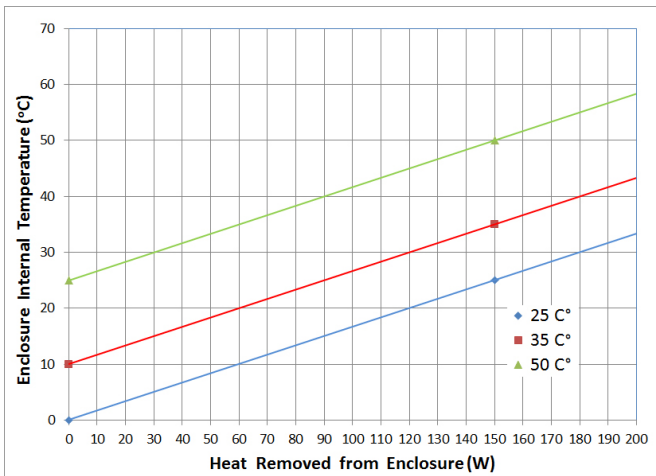
APPLICATIONS

- » 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



Product Detail

| Max Cooling Power | TEC Voltage | TEC Current | Hot Side Fan | Cold Side Fan | Operating Temperature | Dimensions (mm) | Mounting Holes (mm) | Weight |
|-------------------|-------------|-------------|---------------------------|----------------------------|-----------------------|-----------------|---------------------|---------|
| 150W | 48V | 5.6A | 172x150x51 mm 48V 0.4A | 120x120x38 mm 48V 0.21A | -10° – 70° | 400x180x197.3 | 300x166 | 7.1 Kgs |



NOTES:

1. Please use the 48 VDC power with the ripple less than 10%
2. Please do not drop, otherwise component can crack and damage the TECs.
3. Please keep 10cm distance from walls for proper ventilation when mounting.
4. Please do not use it when the temperature of the assembly or environment is higher than 70°C.
5. Graph shows an example of when cabinet temperature is 50°C and the environment temp is 50°C, the cooler can transfer 150W from the cabinet to the ambient.
6. $\Delta T = T_{\text{enclosure}} - T_{\text{ambient}}$



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