



## Thermoelectric assembly Air-to Air

TA-AA-200-24



### Applications

- Photonics laser systems.
- Outdoor telecom cabinets
- Thermostat of biological assays.
- Medical diagnostics.
- Battery cabinets
- Industrial measuring instrument.
- Thermostabilization of electronic cabinets
- Analytical devices.
- Outdoor kiosks and displays
- Food and beverage cooling
- Others.

### Features

- Low current consumption.
- low noise pressure.
- Compact design.
- Small weight.
- Precise temperature control.
- Cooling and heating in the same unit
- Ease of installation and connection.
- DC operation of 18V or 27V voltage.
- Various positioning in space.
- Environmentally friendly solid state heat exchange operation with no CFC refrigerants.



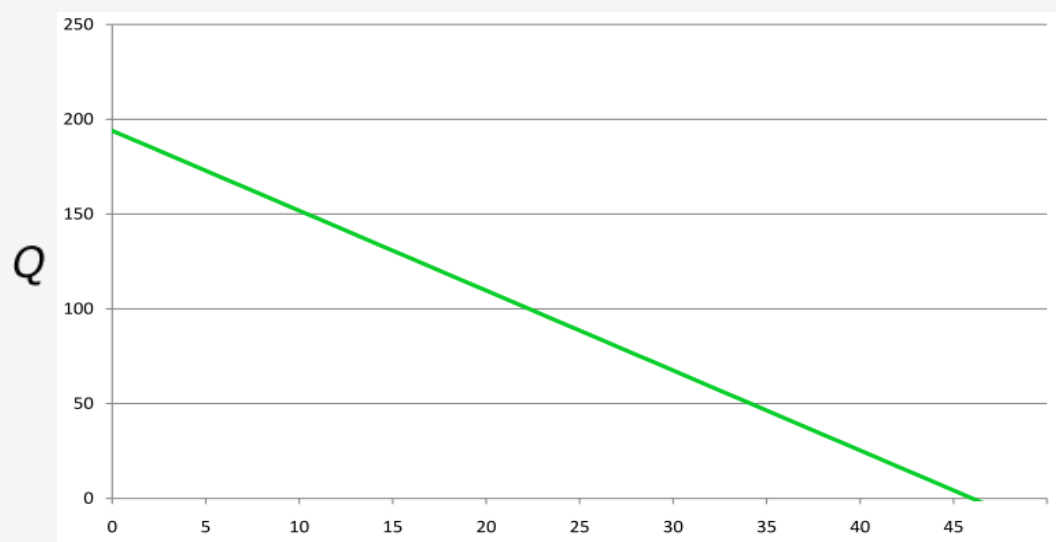
Type	TA-AA-200-24
Voltage (nominal /maximal)	24/27 VDC
Amperage $\pm 10\%$ (nominal/starting)	10.1A/14.8A (at 24VDC)
Max ripple	5%
Cooling capacity at $\Delta T = 0^{\circ}\text{C}$ and nominal voltage . <sup>1</sup>	194W
Heating <sup>2</sup>	215W
Operating temperature of the heatsinks on the inner and outer side, not more than <sup>3</sup>	85°C
Temperature range (external /internal)	-40°C to +60°C/-20°C to +60°C
Fans lifetime (at temperatures not higher than +40°C) and nominal voltage	$\geq 60,000$ hours
Sound level (distance 1m.)	53dB(A)
Mode of operation	long-term
Protection of heatsinks	Anodizing film thickness of 10-20 microns
Overheat protection	by demand the customer ( Additional option )
Type of connector	Terminal block with cage clamps
Weight $\pm 3\%$	6.5kg

- 1- Cooling capacity is rated at ambient temperature +35°C.
  - 2- Heating capacity is rated at external temperature of -40°C, nominal voltage, and  $\Delta T = -45^{\circ}\text{C}$ .
  - 3- Possibility of increase to 150°C - Additional option.
- NOTE!** A method of transferring heat - forced convection.  
Not recommended to reduce airflow external and internal side.

Contact us for more information  
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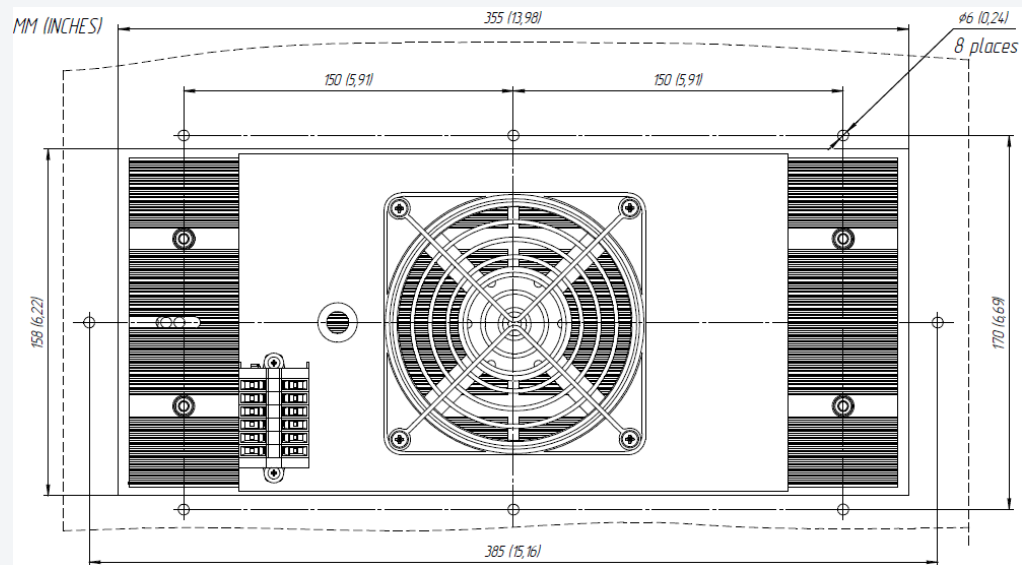
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### Performance Q[ $\Delta T$ ]



$\Delta T$   
 $\Delta T^{\circ}\text{C} = T^{\circ}\text{ ambient} - T^{\circ}\text{ internal}$   
 Q - cooling capacity, W.  
 for ambient temperature +35 ° C and rated voltage

### MOUNTING SCHEME



# Dimensions of the assembly

MM (INCHES)

