CRYSTAL TE

Thermoelectric assembly Air-to Air

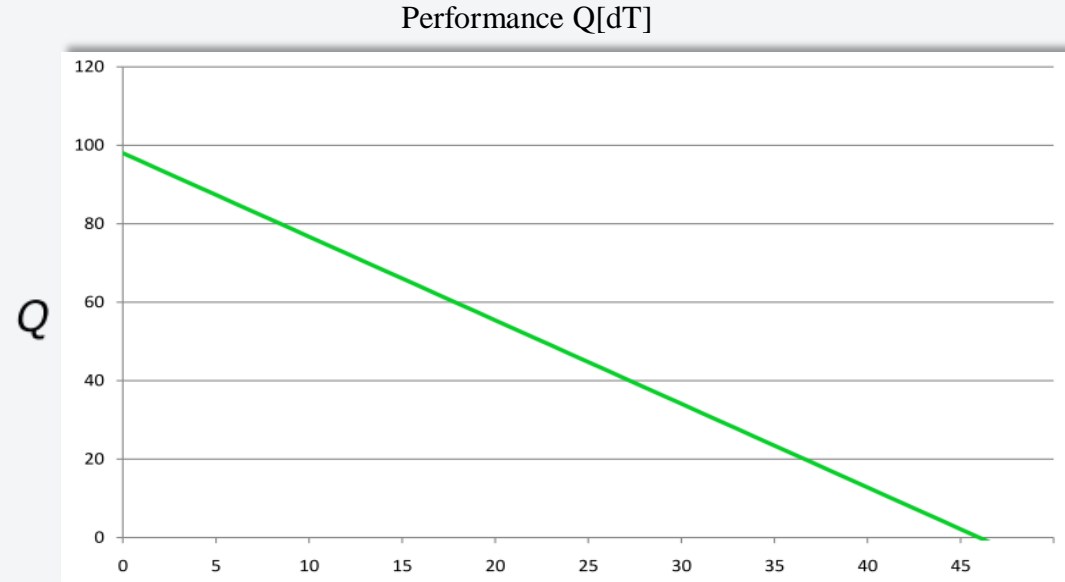## *TA-AA-100-24*

Features

- Low current consumption.
- low noise pressure.
- Compact disign.
- Small weight.
- Precise temperature control.
- Cooling and heating in the same unit
- Ease of installation and connection.
- DC operation of 18V or 28V voltage.
- Various positioning in space.
- Environmentally friendly solid state heat exchange operation with no CFC refrigerants.

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
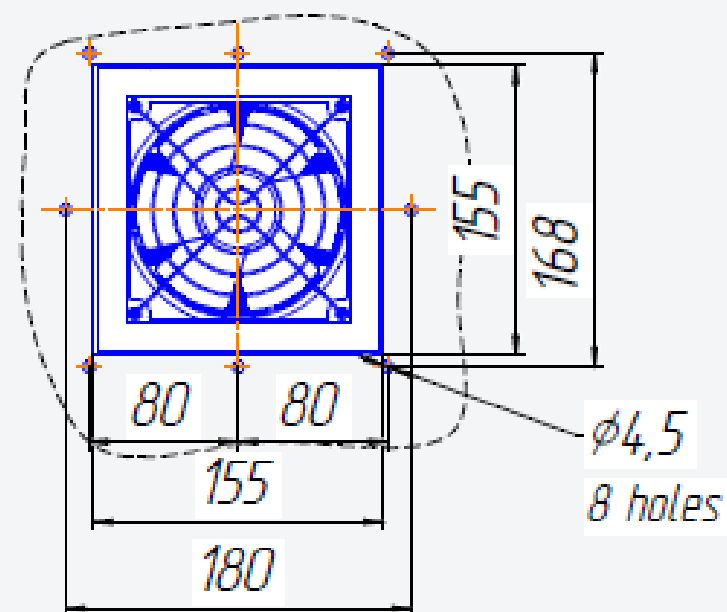- Food and beverage cooling
- Others.

Type	TA-AA-100-24
Voltage (nominal /maximal)	24/27 VDC
Amperage ±10% (nominal/starting)	6.0A/8.0A (at 24VDC)
Max ripple	5%
Cooling capacity at dT = 0°C and nominal voltage . [1]	98W
Heating [2]	125W
Operating temperature of the heatsinks on the inner and outer side, not more than[3]	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	≥60,000 hours
Sound level (distance 1m.)	46dB(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	Dust and waterproof 6- pin female shoes
Weight ±3%	4.2kg

Performance Q[dT]

$$dT°C = T° \text{ ambient} - T° \text{ internal}$$

Q - cooling capacity, W.

for ambient temperature +35 ° C and rated voltage

MOUTING SCHEME

1- Cooling capacity is rated at ambient temperature +35°C.
2- Heating capacity is rated at external temperature of -40°C, nominal voltage, and dT = -45°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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Dimensions of the assembly