







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.

Thermoelectric assembly Air-to Air TA-AA-30-24

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 22V or 27V voltage.
- Various positioning in space.
- Environmentally friendly solid state heat exchange operation with no CFC refrigerants.



Туре	TA-AA-30-24
Voltage (nominal /maximal)	24/27 VDC
Amperage ±10% (nominal/starting)	1.4A/1.9A (at 24VDC)
Max ripple	5%
Cooling capacity at $\Delta T = 0$ °C and nominal voltage.	29W
Heating ²	32W
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 pressure level (distance 1m.)	32dB(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%	0.6kg

- 1- Cooling capacity is rated at ambient temperature +35°C.
- 2- Heating capacity is rated at external temperature of -40°C, nominal voltage, and ΔT = -45°C.
- 3- Possibility of increase to 150°C Additional option.

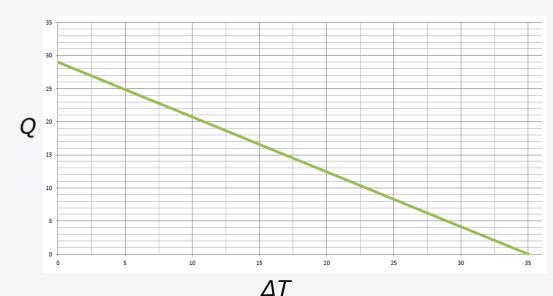
NOTE! A method of transferring heat - forced convection.

Not recommended to reduce airflow external and internal side.

Contact us for more information e-mail: info@crystalltherm.com.

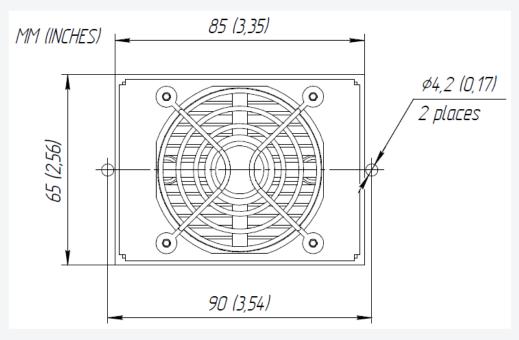
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Performance Q[∆T]



 $\label{eq:deltaT} \Delta T^\circ C = T^\circ \mbox{ ambient - } T^\circ \mbox{ internal}$ $Q \mbox{ - cooling capacity, } W.$ for ambient temperature +35 $^\circ$ C and rated voltage

MOUNTING SCHEME



Dimensions of the assembly

