



Thermoelectric cooling unit for medical and industrial applications

The Liquid-to-Air Series thermoelectric assembly (TEA) offers dependable, compact performance by cooling objects via liquid to transfer heat. Heat is absorbed through a liquid heat exchanger and dissipated thru a high density heat sink equipped with an air ducted shroud and brand name fan. The thermoelectric modules are custom designed to achieve a high coefficient of performance (COP) to minimize power consumption. This product series is available in a wide range of cooling capacities and voltages. Custom configurations are available, however, MOQ applies.

FEATURES

- Compact form factor
- Precise temperature control
- Reliable solid-state operation
- DC operation
- RoHS compliant

APPLICATIONS

- Medical Diagnostics
- Industrial Lasers
- Medical Lasers
- Analytical Instrumentation

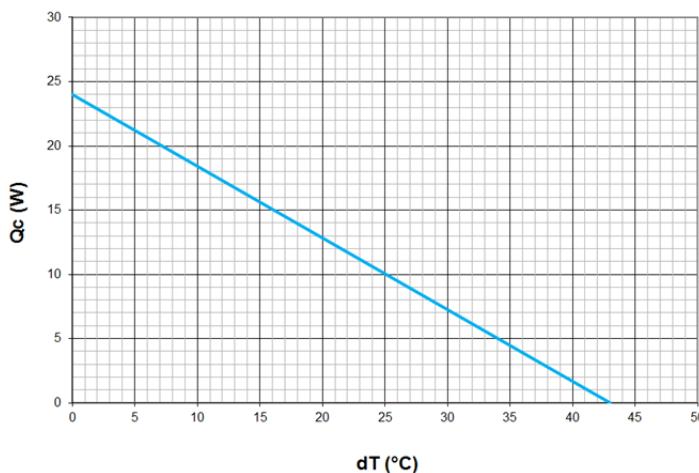
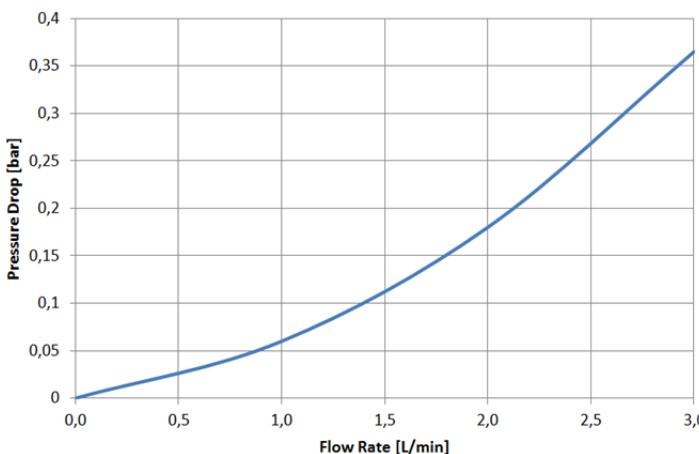
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Liquid-to-Air Thermoelectric Assembly
Qc vs ΔT

Pressure Drop vs Flow Rate

SPECIFICATIONS
TECHNICAL

Technology	Thermoelectric based
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Cooling at $\Delta T = 0^\circ\text{C}$	24 W
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Voltage (nominal / maximum) ¹	12/15 VDC
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Current draw, $\pm 10\%$ (nominal / startup)	2.2/2.8 A
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Weight	0.5 kg
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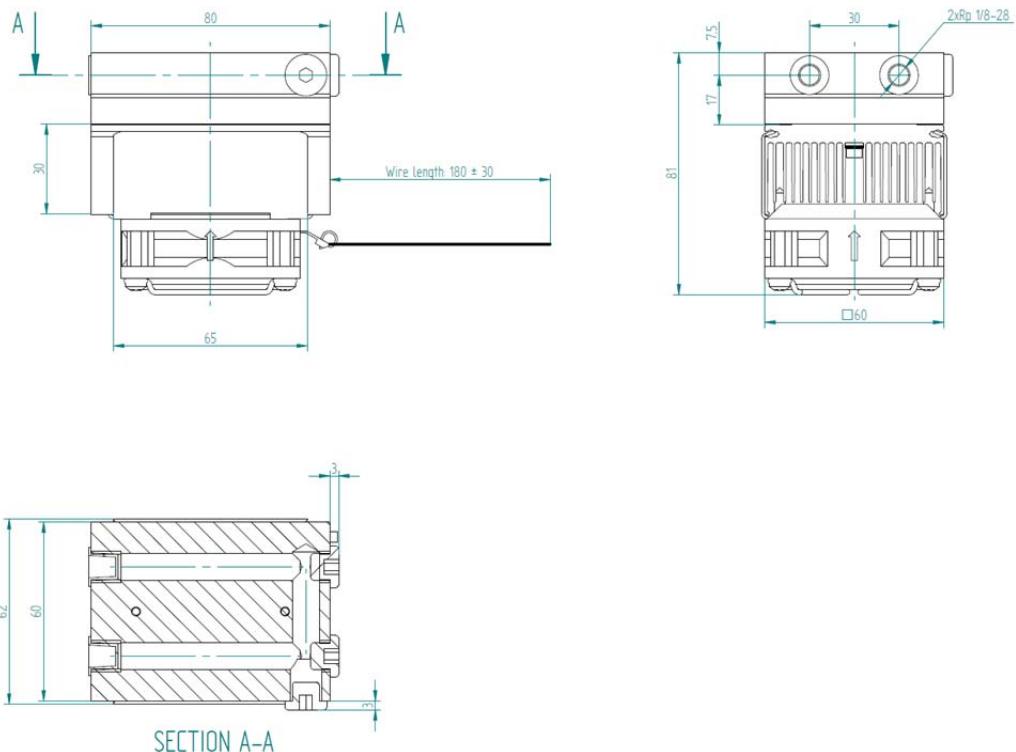
MTBF (fans)	50,000 hours
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Performance Tolerance	$\pm 10\%$
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ENVIRONMENTAL

Temperature range	-10°C to +48°C
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MECHANICAL DRAWING



Note:

- For indoor use only
- Turbulators are mounted inside liquid channels to turbulate flow
- Cold block requires insulation to minimize moisture buildup under dew point conditions.

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