



The AA Outdoor Cooler Series is an air-to-air thermoelectric assembly (TEA) that uses impingement flow to transfer heat. It offers dependable, compact performance by cooling objects via convection. Heat is absorbed and dissipated thru high density heat exchangers equipped with air ducted shrouds and brand name fans. The heat pumping action occurs from custom designed thermoelectric modules that achieve a high coefficient of performance (COP) to minimize power consumption.

This product series has been designed to pass rigorous Telcordia test requirements conducted by our customers, such as earthquake resistance, salt fog, wind-driven rain, high temperature exposure and dust contaminants. This is due to the selection of world class components such as brand fans with the highest degree of environmental protection and lifetime guaranteed waterproof connectors, heavy duty anodization on the high-density heat sinks, overheat protection, and double environmental seals for the thermoelectric modules.

FEATURES

- 100W capacity rated at $\Delta T = 0^{\circ}\text{C}$, $T_{\text{ambient}} = 32^{\circ}\text{C}$
- Wide operating temperature range of -40°C to $+55^{\circ}\text{C}$
- Telcordia GR-487-CORE tested and verified by customers when integrated in telecom outdoor enclosures
- UL60950 and UL50 approval obtained by customers when integrated in telecom outdoor enclosures
- Environmentally friendly solid-state operation – no compressor or CFC refrigerants
- Cooling and heating in the same unit; optional temperature controller reverses the polarity of current to generate heating

APPLICATIONS

- Outdoor telecom enclosures
- Outdoor kiosks and displays
- Harsh conditions electronic cabinets
- Battery cabinets

TECHNICAL SPECIFICATIONS

Technology	Thermoelectric (TE) modules, forced air, closed loop (non-mixing), filter less, non-refrigerant
Cooling at $dT = 0^{\circ}\text{C}$, and nominal / float voltage ¹ - W	102/113 (348/386 Btu/h)
Heating ² - W	125 (427 Btu/h)
Voltage, nominal / maximum - VDC	24/28
Grounding (all voltages)	Positive or negative
Current draw, nominal / startup $\pm 10\%$ - A	5.6/7.2 (24V version)
Weight - kg (lbs)	4.1 (9.0)
Panel mounting	Through
Fan life (L_{10} at $+40^{\circ}\text{C}$) - hours	$\geq 70,000$
Number of connectors	3
Connector type (on unit / mating side)	On unit: AMP part number: 350777-1, 794269, 350547-6, 794270-1 Mating side: AMP part number: 350778-1, 350550-6, 794270-1
Hi-pot testing - VDC	707

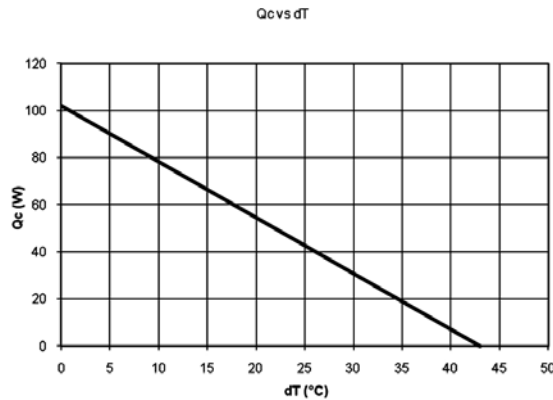
ENVIRONMENTAL

Temperature range ³ , external ambient - °C (°F)	-40 to +55 (-40 to +131)
Temperature range, internal enclosure - °C (°F)	-20 to +55 (-4 to +131)
Degree of protection, unit ⁴	IP54
Sound level, 1 m distance - dB(A)	58
Over-Temp Thermostat, hot and cold side heat sink - °C	80 ± 3

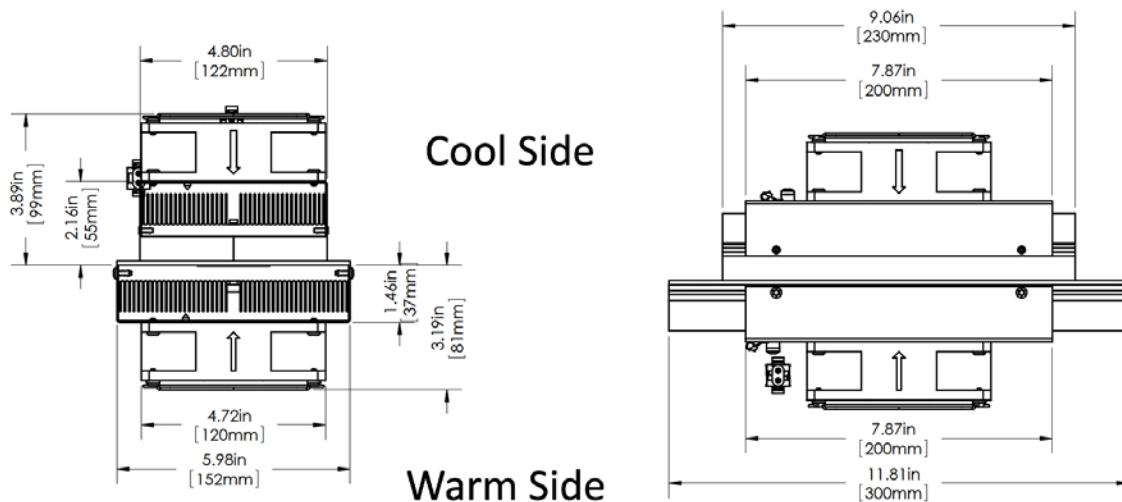
- 1) Cooling capacities at nominal / float voltage are rated at external temperatures of 32°C and 46°C respectively. Float voltage is defined at 27 VDC.
- 2) Heating capacity is rated at external temperature of -40°C, nominal voltage, and dT = -45°C.
- 3) Controller function shall not operate the external fan during heating mode.
- 4) Rating for unit without protective shroud. A higher degree of protection can be obtained with external shroud.

Note: The specified performance of any Laird Technologies cooling unit is dependent on how it is handled and incorporated into the final product. This includes elements such as the system design, insulation design, and assembly method. While Laird Technologies is able to provide general guidelines based upon our experience, it is ultimately the responsibility of the device manufacturer to validate each product and its performance for its intended use.

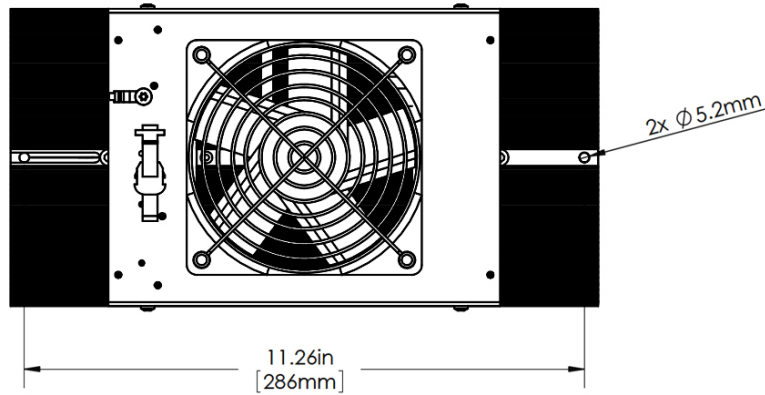
PERFORMANCE QC VS ΔT



ISOMETRIC DRAWINGS

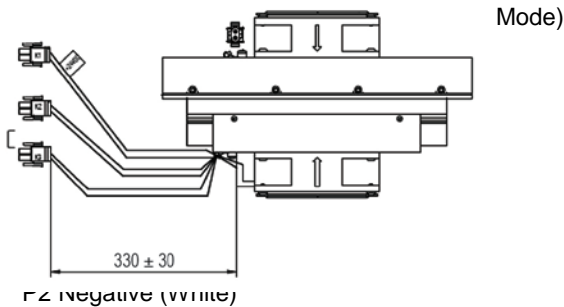


MOUNTING HOLE LOCATION



WIRING SCHEMATIC

Electrical connections



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В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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