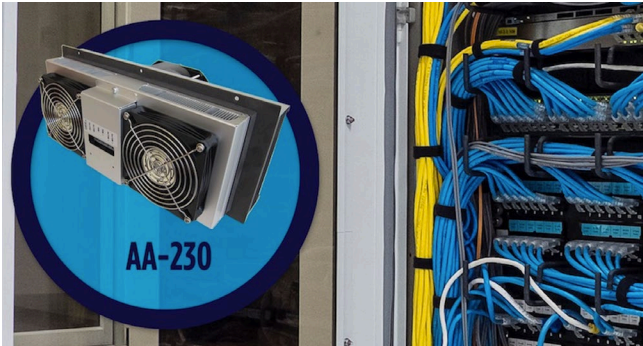


For Immediate Release



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Laird's Highly Efficient Temperature Control System Optimizes Performance of Outdoor Enclosures and Kiosks

Laird's new AA-230 Series thermoelectric cooler assembly is a smaller, more efficient and dependable air-to-air cooler/ heater that lowers operating costs...

January 28, 2016 – Laird Thermal Systems has developed a smaller, more efficient option to cool or heat vital electronics used in outdoor kiosks and enclosures including telecom, battery backup, industrial and other cabinets. The AA-230 Series air-to-air thermoelectric cooler assembly offers lower cost of ownership by maintaining the appropriate temperature range using less energy than standard air-to-air systems due to its high coefficient of performance (COP).

In addition, the AA-230 Series thermoelectric cooler assembly can be mounted inside enclosures to accommodate short partitioned shelf heights. Instead of cooling the entire cabinet, a single smaller AA-230 cooler protects only the specific electronics that require cooling, which translates to significant energy cost savings.

"Too many electronic cabinets are cooled needlessly with expensive, bulky compressor-based air conditioners. Standard air-to-air temperature control systems with vertical mounts are often too large to fit inside a enclosure, so instead they are mounted on an exterior wall to provide temperature control to the entire space inside," explains Anders Kottenauer, Senior Vice President of Laird's Engineered Thermal Systems business. "There's no need to cool the entire enclosure, it's a waste of time, energy, and money."

Because of its innovative design, the new AA-230's steady state construction requires less maintenance than standard compressor based air conditioners.

The AA-230 uses impingement flow to transfer heat and offers dependable, compact performance by cooling objects via convection. The AA-230 has 230 Watts of cooling power and at $\Delta T=0^{\circ}\text{C}$. Heat is absorbed and dissipated thru custom designed heat exchangers with a high aspect ratio. The dual cold side air ducts can be oriented in any direction to accommodate obstructions and maximize circulation. The heat pumping action occurs from custom designed thermoelectric coolers that achieve a high coefficient of performance (COP) to minimize power consumption.

Key System Features:

- Horizontal mount to accommodate tight spaces
- Flexible cold side air duct orientation
- Input power accommodates a nominal/float voltage of 24/28 or 48/56 VDC
- Power cycle tested up to 70K cycles
- Environmentally friendly solid state operation with no CFC refrigerants
- Cooling and heating in the same unit to maintain compact form factor.

The AA-230 compliments the product family of Outdoor Coolers but can also be easily retrofitted as a substitute for compressor-based air conditioners used in medical diagnostic and analytical instrumentation for cooling and heating applications where maximizing system uptime is required.

For more information visit the AA-230 Outdoor Cooler [here](#).

About Laird Thermal Systems

Laird Thermal Systems develops thermal management solutions for demanding applications across global medical, industrial, transportation and telecommunications markets. We manufacture one of the most diverse product portfolios in the industry ranging from active thermoelectric coolers and assemblies to temperature controllers and liquid cooling systems. Our engineers use advanced thermal modeling and management techniques to solve complex heat and temperature control problems. By offering a broad range of design, prototyping and in-house testing capabilities, we partner closely with our customers across the entire product development lifecycle to reduce risk and accelerate their time-to-market. Our global manufacturing and support resources help customers maximize productivity, uptime, performance and product quality. Laird Thermal Systems is the optimum choice for standard or custom thermal solutions. Learn more by visiting www.lairdthermal.com

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