Laird
THERMAL SYSTEMS

For Immediate Release

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Laird's SuperCool Thermoelectric Cooler Assembly Increases Cooling Performance By Up To 60%

Designed for refrigeration applications in medical diagnostics and analytical instrumentation, the high-performance SuperCool Series delivers high heat pumping capacity in a small form factor…

August 1, 2018 – Laird Thermal Systems has launched a high performance thermoelectric cooler assembly series for indoor lab environments that offers a higher cooling performance per unit volume than competing systems. The SuperCool Series thermoelectric cooler assembly features a unique hot side air heat sink design that dissipates heat more efficiently than competing heat exchanger technologies. Utilizing optimized thermoelectric coolers in combination with a high performance heat sink and fan shroud assembly, the SuperCool thermoelectric cooler assemblies transfer heat to air more rapidly. The SuperCool Series is designed for precise temperature control in compact analytical storage compartments and medical diagnostic chambers where space is a premium.

The SuperCool Series contains three models to provide engineers with heat transfer mechanism options on the control side. Heat can be absorbed via liquid, conduction or convection. The Liquid to Air unit has a cooling capacity of 202 Watts, while the Direct to Air has 193 Watts and the Air to Air has 166 Watts. All cooling capacities were measured at $\Delta T=0°C$ with a nominal operating voltage of 24 VDC. Custom configurations are available upon request.

"This is a major breakthrough for thermoelectric cooler assembly technology to offer such high heat pumping capacity in a small form factor. The SuperCool Series enhances the cooling performance by up to 60% in same form factor versus conventional thermoelectric cooler assemblies," said Andrew Dereka, Director Product Management at Laird Thermal Systems. "Our customers in the medical and analytical markets are demanding more stringent thermal requirements with less available space to work with. We have extensive design expertise, a diverse product portfolio, and a global footprint, which matches up well for our customers' requirements."

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For more information, visit https://www.lairdthermal.com/products/product-series/supercool-series

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