



**THERMAL  
SYSTEMS**

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## **Laird Thermal Systems launches the UltraTEC™ UTX Series, a New Generation of High-performance Thermoelectric Coolers**

*UltraTEC™ UTX Series is well suited for cooling lasers, laser projectors and other devices that require high heat pumping capacity...*

**April 20, 2020** – Laird Thermal Systems has launched a new generation of high-performance thermoelectric coolers that offer a 10% boost in heat pumping capacity, greater temperature differential and higher efficiency than standard thermoelectric coolers. The new UltraTEC™ UTX Series thermoelectric cooler offers a heat pumping capacity of up to 296 Watts with a maximum temperature differential ( $\Delta T$ ) of 72°C. The UTX series is ideal for spot cooling applications with industrial lasers, laser projectors, medical diagnostic systems and analytical instrumentation.

Thermoelectric coolers are solid-state devices that use the Peltier effect to pump heat away from temperature-sensitive electronic devices. With no moving parts, thermoelectric coolers can cool electronics well below ambient temperatures and can significantly reduce maintenance requirements and operation costs when compared to other cooling technologies. Thermoelectric coolers offer high reliability with no operational noise and can perform well in high-vibration applications.

The UltraTEC™ UTX Series is assembled with advanced thermoelectric materials for higher heat pumping capacity and features a higher thermal insulating barrier when compared to standard materials. The module also consists of a larger number of N and P couples to generate a higher heat flux density than standard thermoelectric coolers.

“Our test lab has measured up to 10% improvement in cooling capacity and more than 3°C in improved temperature differential,” said Andrew Dereka, Product Director at Laird Thermal Systems. “This means less input power is required to achieve the same cooling power or extra cooling capacity is available to achieve desired control temperature in higher ambient conditions.”

The UltraTEC™ UTX Series is available in 13 models covering various footprints, capacities, configurations and voltage options. For more information on the UltraTEC™ UTX Series, or to check for stocking distributors, visit [www.lairdthermal.com/ultratec-utx-series](http://www.lairdthermal.com/ultratec-utx-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.

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