



**THERMAL
SYSTEMS**

For more information, please contact:

Karl von Gunten

Director of Marketing

+1-919-931-1434

Email: karl.vongunten@lairdthermal.com

Laird Thermal Systems' Nextreme™ Value Chillers Provide Economical, High Reliability OEM Cooling Solution

Easy-to-use, dependable chillers offer application-specific configurability for precise temperature control of industrial and analytical equipment...

December 13, 2021 – Laird Thermal Systems expands the Nextreme™ family with the Value Chiller Series of recirculating chillers for equipment manufacturers seeking a reliable yet cost-effective cooling solution. The Value line offers the same ease of use, high reliability and low maintenance features as the Nextreme Performance Chiller Series but at a lower cost to provide more competitive pricing of an OEM bundled solution. The first model in the series is the VRC2400 that provides 2600 watts of cooling power and can be configured to meet unique requirements for analytical, medical, and industrial applications.



Recirculating chillers are compressor-based liquid cooling systems that circulate a coolant at a predefined temperature set-point to provide very precise temperature control of manufacturing and laboratory equipment such as industrial lasers, electron microscopes and mass spectrometers. The Nextreme Value Chiller Series uses high-performance components to cool well below ambient temperatures to control processes or dissipate heat away from thermally sensitive equipment.

The Value Chiller offers a high coefficient of performance (COP) and can maintain a thermal set point with an accuracy of $\pm 0.5^{\circ}\text{C}$ in the supply coolant. Users can easily read system status and control temperature setpoints, flow and alarm settings via the color touchscreen display. Other standard features include fluid level-sensing with no moving parts; RS-232 / RS-485 communications for integration into higher-level assembly control systems; and supply pressure sensing.

The semi-closed fluid system features a pressure-vacuum reservoir cap to prevent evaporative losses, introduction of bacteria, and fluid drain-back that eliminates the need for additional hardware. With the Value Chiller's reservoir design, less time is required to maintain system operation and uptime, and higher fluid quality level allows longer life of critical components like the pump, heat exchangers, and sensors.

Adapting to ever-changing government regulations, the Value Chiller uses a more environmentally friendly R513A refrigerant with half the Global Warming Potential (GWP) compared to traditional hydrofluorocarbons (HFC) refrigerants. The chiller also meets UL61010-1 or IEC 61010-1 lab safety standards.

"The Value Chiller is a cost-effective, low-maintenance cooling solution that promises OEMs' customers long-life component technology, ease of use and maximum system uptime," says Greg Ducharme, Liquid Cooling Systems Product Director at Laird Thermal Systems. "Increased uptime translates to fewer operational issues for end users, increased throughput, and a better overall customer experience."

Laird Thermal Systems is a globally operating company with manufacturing facilities close to the world's technology centers. World-class supply chain management and production planning contribute to exceeding industry on-time delivery standards, so OEMs may carry lower inventory and plan shipments on an as-needed basis knowing that the cooling solution will arrive on time. A key design requirement was for the product to operate on 50Hz and 60Hz input power. Thus, the Nextreme Value Chillers can be operated anywhere in the world, which further reduces the need to stock country-specific inventory.

The Nextreme Value Chiller Series is available through direct sales at Laird Thermal Systems. [Contact sales](#) or find datasheet at lairdthermal.com/nextreme-VRC2400.

About Laird Thermal Systems

Laird Thermal Systems designs, develops and manufactures thermal management solutions for demanding applications across medical, industrial 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. With unmatched thermal management expertise, 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 time-to-market. Our global design, manufacturing and support resources help customers shorten their product design cycle, maximize productivity, uptime, performance and product quality. Laird Thermal Systems is the optimum choice for standard or custom thermal solutions.

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