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## Amphenol Industrial Operations Improves Thermal Management in High-reliability Electronics with Two New Liquid Cooling Connectors

Quick connect and blind mate models available for a variety of application environments

## **Technical Specifications**

- Reliable, leak-free design for use in liquid cooling applications
- Compact connectors: short overall lengths, small diameters
- Dimensional & performance requirements conform to OCP Universal Quick Disconnect (UQD) Specification rev 1.0
- Dimensional & performance requirements conform to OCP Universal Quick Disconnect Blind-Mate (UQDB) Specification rev 1.0

**Endicott, NY June 2025** – Amphenol Industrial Operations, a global leader in interconnect systems, now offers two liquid cooling connector series with performance that exceeds the Open Compute Project (OCP) specifications. The UQB Series offers quick connect technology, while the UQDB features blind mating for easy installation.

The leak-free design and high flow rate of both series make the connectors ideal for high-reliability equipment that employ liquid cooling. Applications include AI data centers, energy storage systems and electric vehicle charging stations.

All of the liquid cooled connectors use high-performance, aerospace-grade sealing materials and feature a bidirectional shut off valve and dry break for advanced protection against accidental spillage or drips. Both the shell and spring of the connectors are constructed of stainless steel that impedes corrosion and increases component longevity.

The UQD Series features an automatic steel ball-lock mechanism that enables <u>quick connect and</u> <u>disconnect</u> as well as compatibility with other components based on the OCP specification. Ideal for connecting racks and manifolds, these connectors come in the four standard OCP sizes (UQD02/04/06/08) as a standard push-pull socket, with a latch socket option featuring a flat-design button to improve operation and avoid accidental touch. Featuring <u>blind mate technology</u> with a radial compensation of 1 mm, the UQDB Series automatically connects and seals when installed, ensuring the reliability and durability of the connection. Also available in the four sizes outlined by OPC (UQDB02/04/06/08), these connectors simplify installation and improve system operation.

Multiple termination options for both series, including barb and threads, as well as either a right angle or inline configuration improve versatility, making the connectors useful in a range of applications. The connectors feature low flow resistance and accommodate common coolants, such as deionized water, ethylene glycol and propylene glycol. Working pressure is from 0~0.6 MPa and safe pressure ranges from 1~2 MPa.

For more information, please visit <u>https://amphenol-industrial.com/products/liquid-cooling-systems/</u> or e-mail <u>tyesensky@amphenol-aio.com</u>.

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**EDITOR'S NOTE:** Headquartered in Endicott, N.Y., with global manufacturing, sales and marketing locations, <u>Amphenol Industrial Operations</u> specializes in delivering a comprehensive range of high-reliability power and signal connectors along with comprehensive interconnection systems specifically designed for industrial applications.

Our solutions cater to diverse industrial sectors, including, but not limited to, alternative energy, heavy equipment, energy storage, factory automation, eMobility, rail mass transit, datacom/telecom, and power distribution.

Our product portfolio encompasses power interconnects utilizing our trademark RADSOK® contact technology and ruggedized, military-derivative cylindrical connectors, like threaded (SAE AS50151), PT (MIL-DTL-26482) and GT reverse bayonet styles as well as assemblies and harnesses using these and other industry standard interconnects. With a dedicated team of over 900 skilled professionals, backed by industrial certifications such as ISO9001 and IATF 16949, Amphenol Industrial Operations consistently meets the highest standards of quality and performance.

Amphenol Industrial Operations proudly operates as a business unit of the Amphenol Corporation, one of the world's largest designers, manufacturers and marketers of electrical, electronic and fiber optic connectors and interconnect systems, antennas, sensors and sensor-based products as well as coaxial and high-speed specialty cable.

Amphenol designs, manufactures and assembles its products at facilities in approximately 40 countries around the world and sells its products through its own global sales force, independent representatives and a global network of electronics distributors. Amphenol has a diversified presence as a leader in high-growth areas of the interconnect market including: Automotive, Commercial Aerospace, Communications Networks, Defense, Industrial, Information Technology and Data Communications and Mobile Devices. For more information, visit <u>www.amphenol.com</u>.