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Moog Unveils Next-Gen Pumps for High-Density Data Center Cooling

East Aurora, NY – At SC26 in Chicago, Nov. 15 – 20, Moog Inc. (NYSE: MOG.A and MOG.B), a worldwide designer, manufacturer, and systems integrator of high-performance precision motion and fluid controls and control systems, will unveil two new models of its CoreMotion® canned centrifugal liquid-cooling pumps and drive systems designed to improve the cooling capacity and energy efficiency of data center cooling distribution units (CDUs).

As AI workloads drive higher rack power densities, reliable liquid cooling becomes essential to sustaining compute performance. CDU pumps must deliver the required coolant flow and pressure while limiting the power consumed by cooling itself. Moog has engineered its new CoreMotion® pumps (models CM400 and CM28) to meet these challenges and support cooling in high-density racks.

The CM400 is designed for in-row CDU applications, while the CM28 is intended for in-rack CDUs. Moog's 181 kg (399 lbs) CM400 has a 37kW electrical power rating, with flow rates of 250 to 500 GPM and pressures of 25 to 112 PSI, and the 7.7 kg (16.9 lbs) lbs with period or no CM28 has a 2.8kW electrical power rating, with flow rate capacity of up to 55.5 GPM and maximum pressure capacity of 72.5 PSI. At booth #4547, Moog's engineers will show how they designed the pumps for a variety of scenarios, including the Deschutes 5.0 specification for CDUs.

"As processors become more powerful, thermal design power continues to increase, creating new cooling challenges in high-density data centers. Our new canned pump designs help customers manage those thermal loads while improving efficiency and reliability," says Axel Bokiba, general manager of Data Center Cooling for Moog. "Fluid control is in our DNA, so we've developed a new generation of liquid cooling pumps to not only meet new processor demands but also retrofit older data centers."

The CM400 and CM28 feature a Moog manufactured drive and canned-motor pump architecture that integrates the rotor magnetics and impeller into a single assembly, eliminating rotating shaft seals and reducing potential leak paths. This approach allows for a highly compact unit that minimizes maintenance requirements and supports long-term reliability under the demanding cooling needs of high-density AI infrastructure. Sourcing the pump and drive from Moog simplifies integration and supplier coordination. With its own pump manufacturing facilities in the U.S., Moog can tailor its support to the quickly evolving needs of data centers and CDU manufacturers.

About Moog Inc.
Moog is a worldwide designer, manufacturer, and systems integrator of high-performance precision motion and fluid controls and control systems. Moog's high-performance systems control military and commercial aircraft, satellites, and space vehicles, launch vehicles, defense systems, missiles, automated industrial machinery, marine, and medical equipment.

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