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Transtherm Cooling Industries Ltd Announces Polar X 2600 CDU Exceeding NVIDIA DSX Benchmarks

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COVENTRY, UK, 26th OCT 2026 – Tim Bound, Group Sales and Marketing Director

Transtherm Cooling Industries Ltd, a leading UK manufacturer of high-efficiency industrial thermal management solutions, has announced the rollout of the Polar X 2600 Coolant Distribution Unit (CDU), engineered specifically to meet and exceed the demands of high-density AI data centre environments.

The NVIDIA DSX program recommends a minimum cooling capacity of 2,500 kW operating at a 4°C Approach Temperature Difference (ATD) and 10°C temperature differential (ΔT) across both Technology Cooling System (TCS) and Facility Water System (FWS) loops. While competing manufacturers often rely on wider FWS temperature differentials or standard 0% glycol conditions on the FWS circuit to inflate published capacity figures. This often sees real-world capacity drop to ~1,680 kW (~73% of quoted duty) when introducing real-world glycol levels on the FWS circuit. The Polar X 2600 delivers up to 2,600 kW with 25% propylene glycol on both circuits under true DSX-aligned conditions.

"As AI compute densities push data centre thermal requirements to new limits, baseline compliance is no longer enough," commented Tim Bound for Transtherm Cooling Industries Ltd. "The NVIDIA DSX guidelines set a clear benchmark of 2,500 kW at a 4°C ATD and 10°C ΔT. With the Polar X 2600, we exceed that benchmark at 2,600 kW on a 25% glycol mix, while incorporating true 2N+1 pump redundancy and DSX-recommended full-bore electromagnetic flow meters for 99% accuracy."

The unit has successfully passed Transtherm's gap analysis against the NVIDIA DSX technical specification and is currently undergoing formal self-certification performance and control loop testing.

For more information on the Polar X 2600 and Transtherm's range of data centre cooling solutions, visit www.transtherm.co.uk.