

Nominee: Iceotope Technologies Ltd

Nomination title: 1U immersion cooled server

Sheffield based liquid cooling developer, Iceotope has developed KU:L Sistem which combines the energy efficiency of immersion cooling with the ease of use, familiarity and scalability of current air-cooled technology to give you the world's first 1U immersion cooled server.

Backed by Schneider Electric, the company has seen the technology capable of delivering substantial Capex and TCO benefits, it is their first product release aimed squarely at the scale data centre market, be it cloud, enterprise or Edge.

KU:L Sistem's form factor can be retrofitted into any existing rack and work alongside existing air-cooled kit. After installation into the rack, the server is connected via a manifold to facility water to allow heat transfer and recapture. This is great if you were looking to test out liquid cooling without redesigning your whole data centre but even better for those looking to invest in new data centres. Aside from a connection to facility water, the system requires none of the additional infrastructure and complexity encountered in air-cooled environments: no hot and cold aisle containment, no lowered floors or raised ceilings, no air-filtration, no air-conditioning; and Iceotope can turn any hot, dusty room into a fully-fledged datacentre.

Why nominee should win

Iceotope continues to push the boundaries for technology manufacture sharing their knowledge and expertise with wider European projects to build HPC and Exascale systems for future generations to benefit in many areas including: applications from across climate/weather, physical/energy and life-science/bioinformatics