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Allied Control announces DataTank™ 1.4MW Container Data Center and 240kW Flat Racks for 3M™ Novec™ Engineered Fluids, wins Best Green ICT Award 2014

Immersion cooled data center container allows inexpensive, efficient and rapid deployment of Supercomputer, HPC, GPU or ASIC clusters at unprecedented power densities.

HONG KONG – April 7, 2014 – [Allied Control](#), a professional engineering company specializing in two-phase immersion cooling, announces the availability of their DataTank™ container data center with 1.4MW and the DataTank™ 240kW Flat Rack tanks. The third generation systems are designed to deliver a PUE of 1.01 or less even in hot and humid Asia, and the company's Immersion-2 installation has just been honored with the Best Green ICT Award 2014 for most energy efficient data center.

The standard configuration of the [DataTank™](#) Container Unit is no less than 1.4 Megawatts per prefabricated ISO container and tanks can be equipped with high performance condensers of up to 500kW per flat rack tank for extremely demanding applications. Tanks are equipped with 19-inch rails, Open Rack or custom form factors will be available in the future.

"Imagine you can make computers that consist of not much more than chips on boards. You don't have to worry about heat dissipation, power delivery, fans, heatsinks, waterblocks, pumps, or the mechanical infrastructure to stitch all that together", said Kar-Wing Lau, VP of Operations at Allied Control. "Systems cost less to make and don't produce more e-waste than the strict minimum. They basically make money faster for the business that uses them, and they run extremely efficient with almost no energy wasted for cooling."

The elegant and future-proof DataTank™ systems deliver density, efficiency and simplicity in a fully modular turnkey solution. The patent-pending designs include full infrastructure from power distribution to immersion cooling, automation and monitoring. With the only site requirement being power and network, deployment is unusually simple. DataTank™ systems do not use evaporative water towers, and as a result the water usage effectiveness is close to zero (WUE <0.003 L/kWh). By employing hot water technology for cooling, heat can be recaptured easily and reused for heating without adding any infrastructure cost.

In the so-called 2-phase immersion cooling process, hardware is submerged into a bath of non-conductive 3M™ Novec™ Engineered Fluids, which are much better at conducting heat than air, water or oil. The system operates silent and dust free, there are no moving parts. The liquids are non-flammable, non-toxic, environmentally friendly and clean. Should a board ever have to leave the bath, it comes out dry.

With its unique and very different approach to cool computers, the company has recently attracted international attention from Bitcoin mining operations that run extremely dense

hardware, demanding tens of Kilowatts per rack and a fast hardware cycle. Allied Control and its partners see Bitcoin mining as the perfect incubator for immersion cooling and are dedicated to developing the supercomputer cooling fabric of tomorrow.

With the world's fastest supercomputer Tianhe-2 in China, and the country's commitment to remain the driving force for HPC and Exascale, Allied Control has also started open discussions with renowned institutions of the economic powerhouse. With over 72 sites on the Top 500 supercomputer list, China is currently the No.2 HPC user in the world.

Allied Control has teamed up with global leaders such as Wieland Thermal Solutions, Universal Electric Corporation and Compuware Technology for dense and efficient cooling and power delivery. All systems are built in the USA with German and American parts, ISO 9001 compliant and in conformity with international standards such as UL, IEC and CE.

About Allied Control

Allied Control is 3M's technology partner for Novec™ Engineered Fluids and the creator of the DataTank™ immersion cooling systems. The privately held company has been granted the Best Green ICT Award 2014 for most energy efficient data center and cools the World's hottest computers more efficiently than anyone else. Allied Control plans to deploy initial overseas systems with key-partners, and to seek funding to ramp up production capabilities by end of 2014. The company is also looking for a well-established partner in the liquid cooling market. Visit <http://www.allied-control.com>

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