

DataTank™ 48U

Up to 252kW

2-phase Immersion Cooling for Data Center Transformation

LiquidStack's 2-phase Immersion Cooling can cool the hottest computers in the most extreme conditions. Up to **30X** more heat removal per rack compared to traditional air cooling, 2-phase immersion liquid cooling is silent, non-toxic and environmentally friendly.

Standard Features

Industry Leading Efficiency

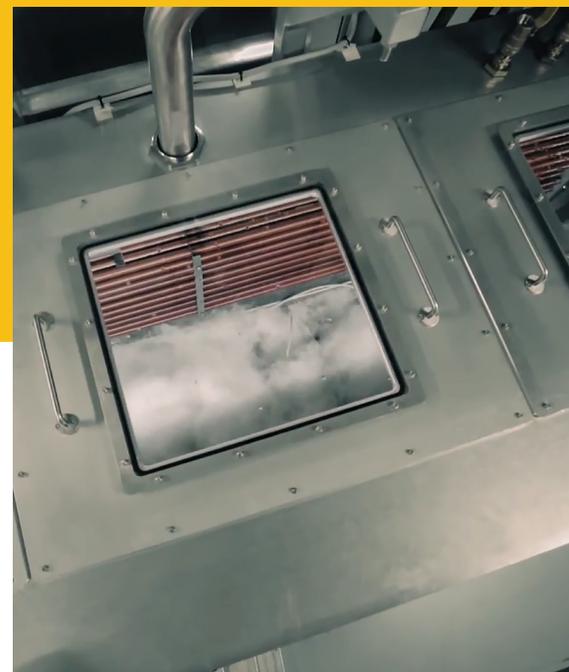
- pPUE of 1.02 to 1.03
- Zero IT fan power consumption
- Passive - no pumps required for heat rejection
- Internal power meter for IT, System and Cooling

High Capacity and Built-in Redundancy

- Up to 252 kW of IT cooling capacity
- N, N+1 or 2N Condenser Coil options
- N or 2N supply power to IT loads

Space and Real Estate Savings

- No need for bulky air-cooled IT heat sinks
- No IT fans
- No IT chassis
- IT boards can be tightly packed
- 59% to 90% savings in footprint and real estate



The improved energy efficiency, elimination of water use and dramatic reduction in space leads to significant TCO savings:

41% reduction

in energy used for cooling

44% CAPEX reduction

versus air-cooling

59% reduction

in Data Center white space

15% improvement

in TCO over 20 years (nominal)



Typical Dimensions	Units
Height	1,900mm (74.8")
Width	2,494mm (98.2")
Depth	1,158mm (45.6")
Weight	2,500kg (5,507 lbs.)

Flexibility

- 48U tank (42U accessible)
- 19-inch, 21-inch, OCP rack compatible
- Works with all 600mm or 750mm racks
- Up to 1,050mm depth IT
- Rear or top piping / power connections
- 2-way or 3-way chilled water valve options
- Future proof for IT upgrades

Advanced Controls

- 7-inch color touch-screen display
- Network manageability, real-time capacity monitoring, predictive failure notification over standard protocols

Safe to Operate and Maintain

- Stainless steel tank construction
- 3X tempered glass lids, 10mm thick site glasses
- Multi-level safety mechanisms (auto power-off capability)
- Dielectric fluids are environmentally safe, non-flammable and flame retardant
- High efficiency LED interior lighting
- Silent operation
- 20 to 30-year operable life

Defying the Cooling Convention for a New Generation of Data Center, Edge and High Performance Computing

LiquidStack's 2-phase immersion liquid cooling is the only proven, highly scalable, environmentally safe and sustainable solution capable of meeting the thermal challenges of cloud, enterprise, 5G and edge computing applications.

Since pioneering 2-phase immersion cooling in 2012, LiquidStack has been deploying advanced cooling solutions across the world's most demanding compute environments, actively reducing energy and water use on a massive scale.

Today, LiquidStack provides thermal management solutions to many of the world's largest cloud services, semiconductor, manufacturing, IT hardware and cypto-mining providers.

To learn more, please visit www.liquidstack.com.