

# DataTank™ Modular

## Up to 1.5MW

### Built for Cost Effective, Efficient and Rapid Cluster Deployments

Our DataTank pre-fabricated modules reduce engineering and construction complexity. Using passive 2-phase immersion liquid cooling guarantees highly efficient systems, no matter the climate or environment.

### Standard Features

#### Industry Leading Efficiency

- pPUE of as low as 1.02 to 1.03 nominal
- Zero IT fan power consumption
- Integrated matching outside heat rejection
- Power metering for real-time PUE
- No water required for heat rejection

#### Built-in Resiliency

- N, N+1 or 2N supply power to IT loads
- N+1 Dry Cooler pumps
- UPS back-up on key components (optional)

#### Uber-density With Dramatic Space Savings

- 36X greater density per rack\* in a 45' High Cube or 54' High Cube Reefer Container (other options available)
- Nearly 8X more compute power in one IT Module\*
- IT boards can be tightly packed to within 2.5mm pitch
- IT racks can be pre-integrated to DataTanks



### Simplify capacity planning

with pay-as-you grow  
standardized infrastructure

### Remove limitations

since air-cooling no longer  
constrains your layout

### Reduce E-Waste

No IT fans, no bulky heat  
sinks, no IT chassis required

### Same simple infrastructure,

no matter if you run 20kW, 50kW  
or 250kW per rack.



## Predictable Results With Cost Savings

- Factory built & pre-tested
- 35% to 40% CAPEX savings per kW\*
- 40% to 45% OPEX savings per kW\*
- No cooling CAPEX for IT refresh
- Future-proof for nearly any IT design
- UL/ETL certified

## 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

- Dielectric fluids are environmentally safe and non-flammable
- Stainless steel DataTank construction with multi-level safety mechanisms
- IT Module has interior safety exit lighting with multiple points of egress
- Gas leak detection system with emergency venting and drainage
- 3M™ Novec 1230 fire suppression system with telemetry monitoring capability
- Silent IT Module operation with low noise dry cooler options
- 20-year operable life

\* Compared to traditional air-cooled modular Data Centers

## 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 crypto-mining providers.

To learn more, please visit [www.liquidstack.com](http://www.liquidstack.com).

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