

## Immersion Cooling Equipment

# Integrated Single Phase Immersion Cooling Container



### Overview

The single-phase immersion cooling system immerses servers entirely in dielectric fluid, delivering full-surface heat removal with no need for air-side cooling. Its streamlined architecture enables optimal PUE performance for data centers.

### Features

#### Prefabrication

- GPU-Ready Design: Cools high-power GPU chips without the need for additional forced convection components.
- Scalable High-Density Cooling: Six TANK units form a single container, delivering a total cooling capacity exceeding 480 kW.

#### Energy Saving

- Equipped with electronically commutated (EC) pumps, >30% lower power consumption than conventional centrifugal pumps.
- 100% server heat is removed by the liquid-cooling system; when paired with Fourier free-cooling chiller, PUE < 1.15 (North America, including power distribution losses).

#### Reliability

- The TANK features a built-in nitrogen recycling unit, eliminating the need for continuous 24/7 nitrogen generator operation.
- N+1 automotive-grade pump sets, higher reliability than conventional centrifugal pumps and supports rapid replacement.
- Including static pressure relief valve, along with real-time monitoring of internal pressure.

#### Monitoring

- Intelligent O&M Integration: Fully compatible with the Fourier intelligent operations platform, enabling remote control and online maintenance via web, mobile app, standard API, and northbound protocols.
- AI-Powered Liquid Level Monitoring: Utilizes DNN algorithm for real-time alerts on standard, refill-required, and hazardous liquid levels delivering 90% higher alarm accuracy than the industry average.