

Powerful Immersion Cooling Technology in an Incredibly Compact, Plug-n-Play Package



Experience the Freedom to Add High-Density Compute Capacity Anywhere — Easily. Discover ICEraQ Micro.

Our Deployments Are in Twenty-One Countries Across the Globe



Tokyo Institute of Technology



GRC immersion cooling drives mission-critical systems for these and many more organizations.

ICEraQ Micro is our self-contained, micro-modular liquid immersion cooling solution designed to give IT professionals the flexibility to meet a variety of data center needs quickly and easily, such as:

- High-Density Zones for GPU-Accelerated Applications (AI, AR, & Others)
- Deploying Compute to the Edge (Cell Towers, IoT, & Others)
- Test Environments for New-Age Applications
- Proof-of-Concept Initiatives . . . and More

With its all-in-one design, minimal site requirements, and environmental resilience, ICEraQ Micro gives you the freedom to easily place high density compute virtually anywhere. When you do, you'll experience the incredible efficiency and savings immersion cooling offers.

ICEraQ Micro — the complete liquid immersion cooling system that's easy to acquire, deploy, integrate, and operate.

- 24U Immersion-Cooled Rack
- Integrated CDU
- Cools up to 50 kW¹
- mPUE of 1.03
- Minimal Site Requirements:
 - ✓ Power
 - ✓ Water
 - ✓ Level Floor
- High-Performance, Earth-Friendly, Synthetic ElectroSafe[®] Coolants
- Monitoring with Machine Advisor and alerts with PagerDuty applications. Alternate local and cloud-based DCIMs supported via Modbus, BACnet, and RESTful API protocols.



Budget Friendly



Compact Footprint



Quick Deployment



Self Contained



Location Flexibility



Supports High Density



Easy To Adopt & Use



Eco-Friendly/Sustainable

Experience the Freedom to Add High-Density Compute Capacity Anywhere - Easily

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ICEraQ[®] Micro



Product Specifications

| | |
|--|---|
| Number of Immersion Cooled Racks | 1 x 24U |
| Cooling Distribution Unit (CDU) | Built-in/Integrated |
| Chiller-free Cooling Capacity (Water @ 95° F) | 25 kW |
| Chilled Water Cooling Capacity (Water @ 55° F) | 50 kW |
| Mechanical PUE | 1.03 |
| Redundancy | Coolant pumps: 2N Control system: 2N |
| Dimensions (l x b x h) | 46" x 34.25" x 56.5" (1.17 m x .87 m x 1.4351 m) |
| Weight (filled with coolant) | 2,000 lbs (907 kg) |
| Floor Loading | 182.8 lbs/sq. ft. (892.5 kg/m ²) |

Power & Water Specifications

| | |
|----------------------|---|
| Final Heat Rejection | Flexible Options: <ul style="list-style-type: none"> • Adiabatic/evaporative cooling tower • Dry cooler • Chilled water loop |
| Water Requirements | Possible water input temperature 37 to 122° F (3 to 50° C) Recirculating water flow rate 27gpm (6 m ³ /hr) Connections 1.5" FNPT or hose barb |
| Power Requirements | Two electrical feeds (primary & secondary) each with the following characteristics: <ul style="list-style-type: none"> • 3-Phase 200 - 240 VAC, OR 380 - 480 VAC, 50-60 Hz • Max power consumption per feed 0.75 kW |

Infrastructure / Site Requirements

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|----------------------|---|
| Client to Provide | Access to power & water Level installation surface (raised floor or concrete slab) |
| Operating Guidelines | Ambient temperature 41 to 104° F (5 to 40° C) Secondary containment Standard data center fire suppression |

Monitoring and Reporting

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|--------------------------------|--|
| Platform | Schneider Electric's Machine Advisor Cloud-Based DCIM and local DCIM hooks |
| Alerts | Configurable email alerts with PagerDuty application |
| DCIM/BMS Integration Protocols | Modbus, BACnet, and RESTful API |
| Data Measurements | Heat load Operating temperatures (water and coolant) Operating pressures (water and coolant) Power consumption Pump speed Rack temperature (multiple locations) Liquid level (multiple locations) System health, diagnostics, and early fault detection |

Delivery & Installation

| | |
|---------------------------------|--|
| Lead Time | Ships 8 to 12 weeks after receipt of Purchase Order, to ship |
| Shipping Terms | Ex Works |
| On-site Installation & Training | One business day |

Warranty²

One-year limited warranty with customized support options available. additional cost.

Compatible with All Leading OEM Servers



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