

# ICEraQ<sup>®</sup> Micro

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



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. And 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 kW<sup>1</sup>
- mPUE of 1.03
- Minimal Site Requirements:
  - ✓ Power
  - ✓ Water
  - ✓ Level Floor
- ElectroSafe<sup>®</sup>Coolant
- Foresight Monitoring Software

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

### Our Deployments Are in Eighteen Countries Across the Globe



Tokyo Institute of Technology



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



**Budget Friendly**



**Compact Footprint**



**Quick Deployment**



**Location Flexibility**



**Supports High Density**



**Easy To Adopt & Use**

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

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## 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 <sup>2</sup> )

## Power & Water Specifications

Final Heat Rejection	Flexible Options: <ul style="list-style-type: none"> <li>• Adiabatic/evaporative cooling tower</li> <li>• Dry cooler</li> <li>• Chilled water loop</li> </ul>
Water Requirements	Possible water input temperature 37 to 122° F (3 to 50° C) Recirculating water flow rate 27gpm (6 m <sup>3</sup> /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"> <li>• 3 Phase 200 - 240 VAC, OR 380 - 480 VAC, 50-60 Hz</li> <li>• Max power consumption per feed 0.75 kW</li> </ul>

## Infrastructure / Site Requirements

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

Platform	Schneider Electric's Machine Advisor Cloud-Based DCIM and local DCIM hooks
Alerts	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

## Warranty<sup>2</sup>

One-Year, Limited Warranty Including:	<ul style="list-style-type: none"> <li>• 24/7 on call GRC support staff</li> <li>• 24/7 remote monitoring</li> <li>• On-site parts and labor</li> <li>• Regular maintenance as required</li> </ul>
Extended warranty and maintenance agreements are available at an additional cost.	

## Compatible with Leading OEM Servers



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<sup>1</sup> Utilizing a chilled water system.

<sup>2</sup> Warranty is void if ICEraQ units are run outside of their operating parameters defined in the installation specification.