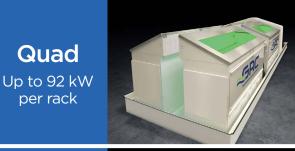




Low-Cost, High-Efficiency, Modular, Rack-Based Cooling Solutions for Data Centers



Duo Up to 184 kW per rack





Our Deployments Are in Twenty-One Countries Across the Globe



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

Our ICEraQ Flex, powered by our latest Series 10 CDU, offers optimal performance and efficiency along with the ability to deploy where obstacles, room shape, and/or flooring challenges require more flexible layouts or piping approaches. It offers breakthrough potential in power efficiency, rack density, and capacity planning, while also reducing the expense of building, running and expanding a data center. It needs no energy-intensive air conditioners, oversize generators, or raised floors. As a result, it enables rapid deployment of super-reliable, chilled, or chiller-free cooling right where you want it.

Features & Benefits

- Cuts energy for cooling ITE by up to 90%
- Provides a pPUE of <1.03
- Lowers upfront costs by up to 50%
- Reduces server power draw 11%¹
- Cools up to 368 kW/rack²
- Compatible with any OEM servers properly optimized for immersion
- Fast deployment: 10-12 weeks

Common Applications:

- Overcome space or power constraints
- Overcome site obstacles requiring layout flexibility
- Surmount rising energy costs
- Integrate high-density racks
- Support ultra-high-density hardware (up to 368 kW/rack)
- Deploy capacity quickly
- Reduce data center build costs

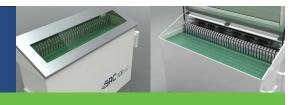
Includes:

- Rack(s) filled with a high-performance, synthetic ElectroSafe[®] fluid — selected specifically by use-case
- Coolant distribution unit (CDU)
- Assured reliability with 2N-redundant pumps and control system
- Cloud-based and local monitoring and reporting capabilities, with configurable email alerts.
- Integrated cable management
- Service bars for easy, in-rack server maintenance
- One-year limited warranty with customized support options available.



Experience the Freedom to Add High-Density Compute Capacity Anywhere — Easily +1.512.692.8003 • ContactUs@grcooling.com • grcooling.com

ICEra@LEX Quad | Duo | One



Product Specifications	<i>ICEra@^{LEX}</i> Quad	<i>ICEra@^{LEX}</i> Duo	ICEra@LEX One
Number of Immersion Cooled Racks	4	2	1
Number of Cooling Distribution Units (CDU)	1	1	1
Chiller-Free Water @ 32 °C (89.6 °F) Cooling Capacity Per Rack Density	200 kW 50 kW	200 kW 100 kW	200 kW 200 kW
Chilled Water @ 13 °C (55.4 °F) Cooling Capacity Per Rack Density	368 kW 92 kW	368 kW 184 kW	368 kW 368 kW
Partial PUE ³	1.03	1.03	1.03
Redundancy ⁴		pumps: 2N system: 2N	
Overall Dimensions (I x b 52U Rack CDU Floor Loading (Operation 52U Rack CDU	2.6 m x 0.7 r 1.7 m x 0.6 n nal) 952 kg/m2 (m x 1.4 m (103" x n x 1.4 m (66.2" x (195 lbs/ft2) ⁶ (143 lbs/ft2)	· · · · · · · · · · · · · · · · · · ·
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Power & Water Specifications

Final Heat Rejection Options	Flexible Options: • Adiabatic/evaporative cooling tower • Dry cooler • Chilled water loop
Water Requirements	Possible water input temperature: • 5 to 32 °C (41 to 89.6 °F) Recirculating water flow rate: • 21 to 30 m ³ /hr (90 to 135 gpm) 6 to 8 C dT typical Connections: • 50.8 mm (2.0") grooved or hose barb
Power Requirements	Two electrical feeds (primary & secondary) each with the following characteristics: • 200-208V 3P 50/60 Hz OR 380-415V 3P 50 Hz OR 380-415V 3P 60 Hz (primary only) OR 480V 3P 60 Hz. • Max power consumption: 5.6kW

Industry average

Cooling Capacities: Rated to limit maximum coolant temperature near 50 °C (122 °F). Actual usable cooling capacity will depend on the hardware/configurations used. Thermal thresholds of individual components may limit usable capacity. Alternatively, higher permissible maximum coolant temperatures may allow higher cooling capacities General specification

Additional redundancy options available. Underfloor CDU option for space constrained sites. Does not include weight of IT equipment and accessories.

Warranty is void if ICEraQ units are run outside of their operating parameters defined in the installation





Infrastructure / Site Requirements Client to Provide Access to power & water Level installation surface with slope < 1/650 (raised floor or concrete slab) Adequate ventilation Operating Guidelines Ambient temperature 5 to 40 °C (41 to 104 °F) Secondary containment Standard data center fire suppression Monitoring and Reporting Platform Cloud based monitoring and graphing platform and local DCIM hooks Alerts Configurable email alerts DCIM/BMS Integration Protocols SNMP, Modbus TCP, and RESTful API Data & Measurements • Operating temperatures (water and coolant) • Operating pressures (water and coolant) • Primary coolant pump power consumption • Primary coolant pump speed • Rack temperatures Liquid level (multiple locations) • System health, diagnostics, and early fault detection **Delivery & Installation** Lead Time Typically ships within three months of receipt of purchase order Shipping Terms **Fx-Works** On-site Installation Three days for the first unit, plus two days for & Training every subsequent unit Warranty⁷ One-year limited warranty with customized support options available. Compatible with Any OEM Servers Properly Optimized for Immersion Hewlett Packard SUPERMICE Sgi intel. - POWERED BY -**D**

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 Technologies GIGABYTE Western nvidia. Øsystems PENGUIN Digital. 111111 **CAMAX** CPC

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