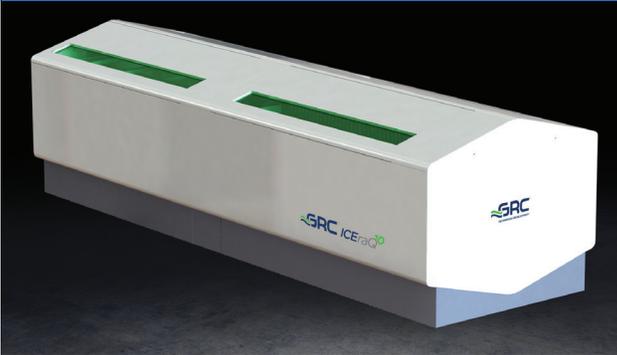


High-Efficiency, Scalable, Rack-Based, Green Cooling Solutions for Data Centers

Quad Up to 92 kW per rack



Duo Up to 184 kW per rack



Our ICEraQ line of micro-modular immersion cooling systems offers breakthrough potential in rack density, location flexibility, and capacity planning, while also reducing the expense of building, running, and expanding a data center. It needs no energy-intensive air conditioners, oversized generators, or raised floors. As a result, it enables rapid deployment of super-reliable, chilled, or chiller-free cooling right where you want it. And with GRC's Earth-friendly focus, the ICEraQ Series 10 products bypass the limits set by predecessors while advancing sustainability.

Features & Benefits

- Cuts cooling energy up to 90%
- Provides a pPUE of <1.03
- Lowers upfront costs up to 50%
- Reduces server power draw 10-20%
- Cools up to 184 kW/rack¹
- Compatible with all leading OEM servers
- Fast deployment: typically within three months

Common Applications:

- Overcome space or power constraints
- Surmount rising energy costs
- Integrate high-density racks
- Deploy capacity quickly
- Reduce data center build costs
- Take full advantage of virtualization benefits
- Support sustainability/ESG goals

Includes:

- Rack(s) filled with our high-performance, synthetic ElectroSafe® coolants
- Coolant distribution unit (CDU)
- Assured reliability with 2N-redundant pumps and control system
- Schneider Electric's Machine Advisor cloud based and local monitoring capabilities with configurable PagerDuty email alerts
- Integrated cable management
- Service bars for easy, in-rack server maintenance
- One-year limited warranty with customized support options available.



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.

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

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ICEraQ¹⁰ Quad | Duo



Product Specifications	ICEraQ ¹⁰ Quad	ICEraQ ¹⁰ Duo
Number of Immersion Cooled Racks	4	2
Number of Cooling Distribution Units (CDU)	Integrated	Integrated
Chiller-Free Water @ 32° C (89.6°F)		
Cooling Capacity	200 kW	200 kW
Per Rack Density	50 kW	100 kW
Chilled Water @ 13° C (55.4°F)		
Cooling Capacity	368 kW	368 kW
Per Rack Density	92 kW	184 kW
Partial PUE ²	<1.03	<1.03
Redundancy ³	Coolant pumps: 2N Control system: 2N	
Overall Dimensions (l x w x h)⁴		
Series 10 Quad	5.09 m x 1.68 m x 1.42 m (200.38" x 66.25" x 56")	
Series 10 Duo	2.92 m x 1.68 m x 1.42 m (115.25" x 66.25" x 56")	
Floor Loading (Operational)⁵	822 kg/m ² (168 lbs/ft ²)	
Power & Water Specifications		
Final Heat Rejection Options	Flexible Options: <ul style="list-style-type: none"> • Adiabatic/evaporative cooling tower • Dry cooler • Chilled water loop 	
Water Requirements	Possible water input temperature: <ul style="list-style-type: none"> • 5 to 32° C (41 to 89.6° F) Recirculating water flow rate: <ul style="list-style-type: none"> • 21 to 30 m³/hr (50 to 150 gpm) Connections: <ul style="list-style-type: none"> • 50.8 mm (2.0") 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 to 240 VAC, OR 380 to 480 VAC, 50 to 60 Hz • Max power consumption: 5.6kW 	

¹ Utilizing a chilled water system.
² General specification.
³ Additional redundancy options available.
⁴ Underfloor CDU option for space constrained sites.
⁵ Does not include weight of IT equipment and accessories.
⁶ Warranty is void if ICEraQ units are run outside of their operating parameters defined in the installation specification.

Infrastructure / Site Requirements	
Client to Provide	Access to power & water Level installation surface with slope < 1/650 (raised floor or concrete slab)
Operating Guidelines	Ambient temperature 5 to 40°C (41 to 104°F) Secondary containment Standard data center fire suppression
Monitoring and Reporting	
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	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	Ex-Works
On-site Installation & Training	Three days for the first unit, plus two days for every subsequent unit
Warranty⁶	
One-year limited warranty with customized support options available.	
Compatible with All Leading OEM Servers	



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