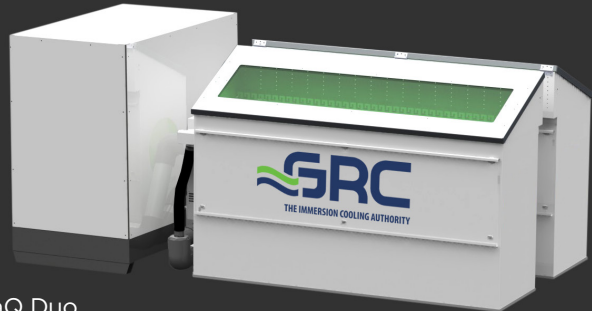
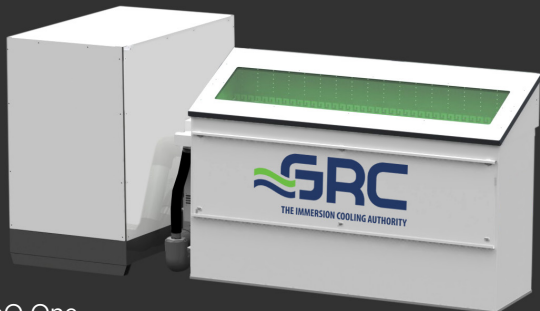


ICEraQ Quad



ICEraQ Duo



ICEraQ One

Low-Cost, High-Efficiency Immersion Cooling for Data Centers

Product Specifications

	Quad	Duo	One
Number of Immersion-Cooled Racks	4 x 52U	2 x 52U	1 x 52U
Number of Coolant Distribution Units (CDU)	1	1	1
Chillerfree, Warm Water Operation (95° F) Cooling Capacity/Per Rack Density	100kW/25kW	100kW/50kW	100kW/100kW
Chilled Water Operation (55° F) Cooling Capacity/Per Rack Density	200kW/50kW	200kW/100kW	200 kW/200kW
Mechanical PUE	1.03	1.03	1.03
Redundancy ¹	Coolant Pumps: 2N, Control System: 2N		
Rack Dimensions (lxbxh)	100"x27"x52" (2.54mx0.7mx1.3m)		
Rack Floor Loading	154 lbs/sq ft. (752 kg/m ²)		
CDU Dimensions (lxbxh) ²	63"x36"x65" (1.6mx0.9mx1.7m)		
CDU Floor loading	57 lbs/sq ft. (278 kg/m ²)		

Delivery & Installation

Shipping Lead Time	• 10-12 weeks after receipt of purchase order
Shipping Terms	• Ex Works
Installation	• Three days for the first unit, plus two days for every subsequent unit. GRC service engineer/s will be onsite to perform installation and training.

¹Additional redundancy options available.

²Underfloor and low profile CDUs available for space constrained sites.

Power & Water Specifications

Final Heat Rejection Options ³	Evaporative Cooling Tower or Facility Water Loop / Chiller Water Loop
Water Requirements	- Water input temperature 37° F to 122° F (3° C to 50° C) - Recirculating water flow rate 50-150 gpm (11 - 34 m3/hr) - Connections 2.5" FNPT or hose barb
Power Requirements	Two electrical feeds (primary & secondary) each with the following characteristics: - 3 Phase 200 - 240 VAC, OR 380 - 480 VAC, 50-60 Hz - Max Power Consumption: 2.3 kW

Infrastructure

Site Requirements	- Access to power and water - Level installation surface (raised floor or concrete slab)
Operating Guidelines	- Ambient temperature: 0° F to 122° F (-18° C to 50° C) - Secondary containment at least 110% of the single largest container - Fire Suppression: Standard data center fire suppression

Monitoring and Reporting

Platform	Foresight DCIM: Proprietary, web-based remote/local monitoring and reporting system
Alerts	Configurable email alerts
DCIM / BMS Integration Protocols	BACNET & SNMP
Data Measurements	- Heat load - Coolant pressure - Pump speed - Operating temperatures - water and coolant - Operating pressures - water and coolant - Rack temperature - multiple locations - Power consumption - Liquid level - multiple locations - System health, diagnostics, and early fault detection

Warranty⁴

- One-year limited warranty including:
 - 24/7 on-call GRC support staff
 - 24/7 remote monitoring
 - Domestic (US): Three business-day onsite response with parts and labor
 - International: Parts by mail
 - Regular maintenance as required

³Low water use options available in climates where the design dry bulb temperature does not exceed 90°F / 35°C. Additional costs apply.

⁴Warranty is Void if the ICEraQ units are run outside of their operating parameters defined in the installation specification.

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The Immersion Cooling Authority