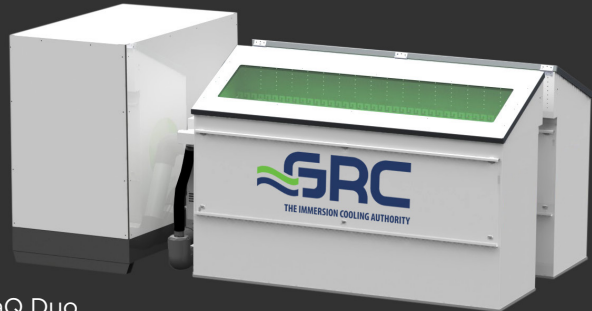
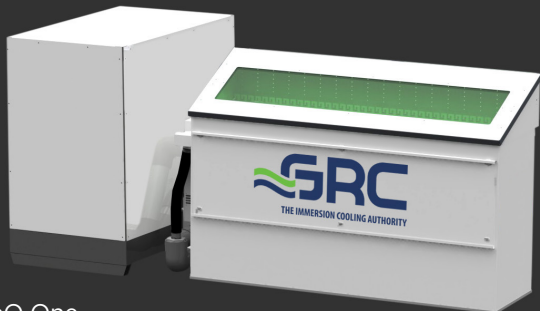


ICEraQ Quad



ICEraQ Duo



ICEraQ One

Low-Cost, High-Efficiency, Micro-Modular, Racked-Based cooling solutions 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	100 kW/25 kW	100 kW/50 kW	100 kW/100 kW
Chilled Water Operation (55° F) Cooling Capacity/Per Rack Density	200 kW/50 kW	200 kW/100 kW	200 kW/200 kW
Mechanical PUE	1.03	1.03	1.03
Redundancy ¹	Coolant Pumps: 2N, Control System: 2N		
Rack Dimensions (l x b x h)	100" x 27" x 52" (2.54 m x 0.7 m x 1.3m)		
Rack Floor Loading	154 lb/ft ² (752 kg/m ²)		
CDU Dimensions (l x b x h) ²	63" x 36" x 65" (1.6 m x 0.9 m x 1.7m)		
CDU Floor loading	57 lb/ft ² (278 kg/m ²)		

Delivery & Installation

- | | |
|--------------------|--|
| Shipping Lead Time | • 10 to 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	<ul style="list-style-type: none"> - Water input temperature 37-122° F (3-50° C) - Recirculating water flow rate 50-150 gpm 11 to 34 m³/hr - Connections 2.5" FNPT or hose barb
Power Requirements	<p>Two electrical feeds (primary & secondary) each with the following characteristics:</p> <ul style="list-style-type: none"> - 3-phase 200 to 240 VAC or 380 to 480 VAC, 50 to 60 Hz - Max Power Consumption: 2.3 kW

Infrastructure

Site Requirements	<ul style="list-style-type: none"> - Access to power and water - Level installation surface (raised floor or concrete slab)
Operating Guidelines	<ul style="list-style-type: none"> - Ambient temperature: 0 to 122° F (-18 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	<ul style="list-style-type: none"> - 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



The Immersion Cooling Authority

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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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