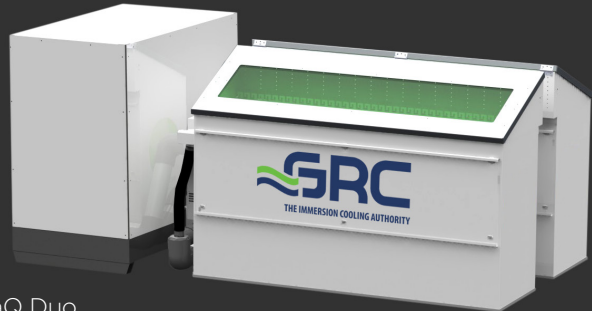
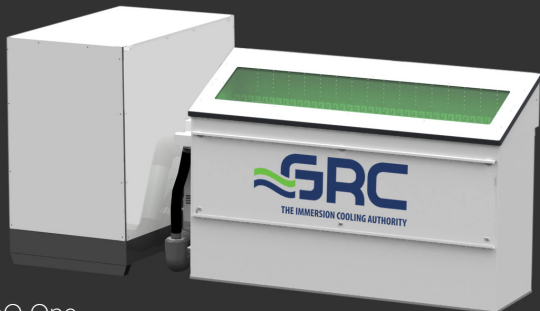


ICEraQ Quad



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
<i>Chillerfree</i> , 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 m ³ /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
- Additional SLAs, and extended warranty & maintenance contracts are available for an additional fee



The Immersion Cooling Authority

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.

GRC believes the information in this Data Sheet to be accurate; however, GRC does not make any representation or warranty, express or implied, as to the accuracy or completeness of any such information and shall have no liability for the consequences of the use of such information.

This Data Sheet and its contents do not constitute an order by GRC to sell any product. An order is made only by a quotation provided by GRC. The terms of sale in such quotation may vary from those set forth in this Data Sheet. GRC's acceptance of any order shall be in GRC's sole discretion, and all quotations and sales are subject to GRC's Terms and Conditions of Commercial Sale.