

GRC ICE Immersion Cooling Solutions

The Coolest Answer to Power Hungry Data Centers

Build, Grow and Optimize Your Operation
With Liquid Immersion Cooling.



Super-Cool Your Servers. Future-Proof Your Data Center.

For many organizations today, success is inextricably tied to IT. That puts a huge burden on data centers. High-performance servers are consuming more power and require ever-greater cooling, which drives major capital expenditures, increases operating costs, and creates seemingly insurmountable thermal issues.

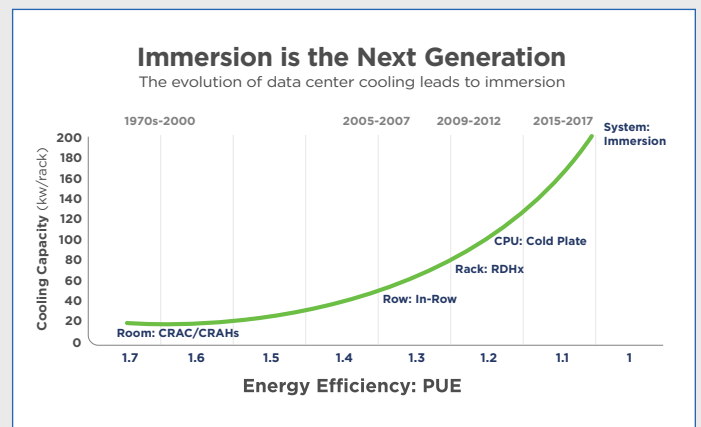
Traditional cooling methods can't keep up. Yet demands on you never stop.

Discover GRC's Immersion Cooling

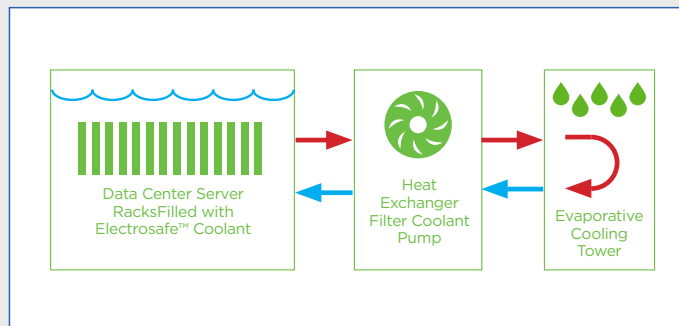
Radically simplifying the design, build and operation of data center infrastructure, Green Revolution Cooling's (GRC) patented immersion cooling solutions provide the breakthrough growth and cost-saving potential you're looking for.

Immersing servers in GRC's ElectroSafe™ coolant improves performance, reliability, and efficiency, while giving you greater layout and location flexibility. GRC's immersion cooling solutions enable you to:

- Scale easily, cost-effectively — and limitlessly
- Slash capex up to **50%** — and cooling energy costs up to **95%**
- Increase cooling capacity up to **100kW/rack**









How GRC Liquid Immersion Cooling Works:

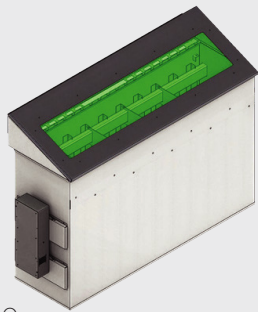


ElectroSafe coolant is a clean, odorless, nontoxic liquid with 1,200X the heat retention capacity of air by volume. Immersing servers in this liquid enables cooling up to **100kW/rack!**

Compare And You'll See That GRC Immersion Cooling Systems Are Superior In So Many Ways.

Conventional Data Centers	GRC's ICE Solutions	
Complex to Design	 Cost-Effective Cut data center construction costs by up to 60% by eliminating chillers, CRACs, CRAHs and raised floors.	 Scalable Minimize the pains of capacity planning and inaccurate forecasts. Build as you go and grow your operation.
Expensive to Build		
Time-Consuming to Install	 Fast + Flexible Locate your data center in virtually any environment — and be up and running within weeks, not months.	 Power-Efficient Experience a <1.05 PUE, 10-20% server load reduction plus an average power reduction of ~50% . Get more from your power envelope, too.
Costly to Operate and Maintain		
Limited in Location Choices	 Future-Proof Cool the most powerful servers—up to 100kW/rack — and capitalize on emerging applications.	 Resilient Eliminate fan vibrations, dust and moisture contamination, oxidation risks and hot spots.
Unable to Cool Emerging Systems		

ICE Solutions — Power Your Full Computing Potential



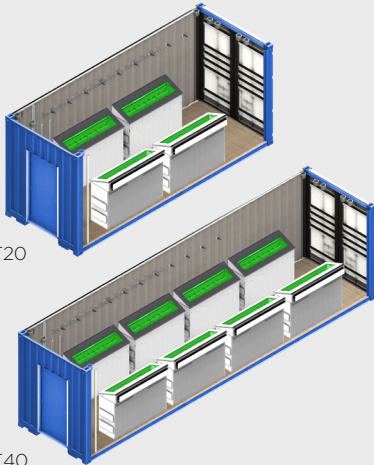
ICEraQ

ICEraQ™ Micro-modular, rack-based immersion cooling solutions for data centers

With minimal site requirements and a modular design, our ICEraQ solution reduces the expense of building, running and expanding your data center, enabling you to achieve unprecedented cost, performance and space efficiencies.

Includes:

- CDU (coolant distribution unit) + racks
- Racks filled with our proprietary ElectroSafe™ liquid coolant
- Mirrored System, with 2N redundant pumps
- Rack-mounted service rails for easy server maintenance and hot swaps



IT20

IT40

ICETank™ Modular, immersion cooling solutions for data centers

ICETanks are turnkey data centers built inside a 20' or 40' Modular ISO shipping container, giving you total location flexibility — even for adverse conditions. You provide the power, water and networking. We do the rest.

Includes:

- ICEraQ system, including our proprietary ElectroSafe™ liquid coolant
- All electrical (power distribution, breakers, panels, etc.)
- CDU (coolant distribution unit) + racks
- Racks filled with our proprietary ElectroSafe™ coolant
- Mirrored System with 2N redundant pumps
- Fire suppression system
- Mini-split A/C unit(s) for technician comfort

All ICE solutions also include: GRC's Foresight monitoring and alerts DCIM application; a one-year limited warranty, including service & maintenance.

ICE Solutions Are Designed to Support Applications Such As:

- Artificial Intelligence (AI)
- High-Performance Computing (HPC)
- Cloud/On-Premise Data Centers
- Edge Computing
- High-Frequency Trading (HFT)



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Take Your Data Center Beyond Limits Go with GRC—the World’s Immersion Cooling Authority

Founded in 2009, Green Revolution Cooling (GRC) pioneered the single-phase immersion cooling technology that has helped data centers like yours slash costs plus grow computing power easily, cost-effectively — and limitlessly.

Our solutions power some of the world’s most respected and data-intensive organizations. We hold ten landmark patents, have eight more pending, and deliver proven bottom-line value for your IT investment.

“immersion-cooled systems do not require chillers, CRAC units, raised flooring, and temperature and humidity controls, etc., they offer a substantial reduction in capital expenditures over air-cooled systems.”

— David Prucnal, P.E. at NSA



GRC ICeraQ’s Are Compatible With Leading OEM Servers

Dell Supermicro NVIDIA Preferred Solution Provider PCPC Gigabyte Technology Intel Penguin Computing
Hewlett Packard Enterprise SGI IBM HGST Quantia Computer Cisco



Compute Cooler. Run Smarter. Grow Faster Bring GRC ICE Solutions to Your Data Center

Don't let the heat barrier have a chilling effect on your data center's growth potential — or your vision. Break free with liquid immersion cooling from GRC.

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MK-001-0008_BR-ICE-2018.06_V0

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