GRC **ICE** Immersion Cooling Solutions

The Coolest Answer to Power Hungry Data Centers

Build, Grow and Optimize Your Operation

With Liquid Iimmersion Cooling.

GRC | GREEN REVOLUTION COOLING

The Immersion Cooling Authority

PRASA

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.
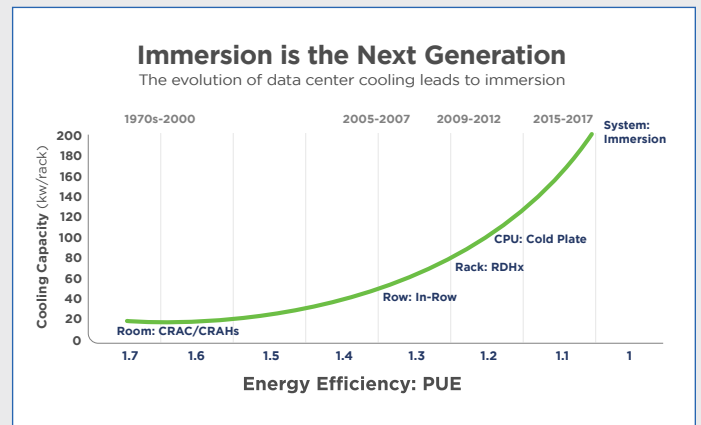
Traditional cooling methods can't keep up. Yet demands on you never stop.
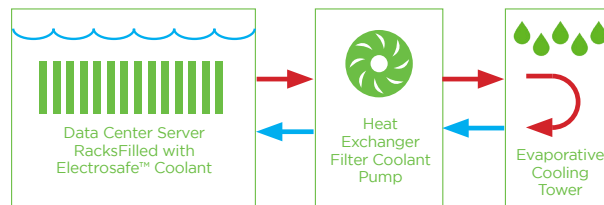
Discover GRC's Immersion Cooling

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**

Immersion is the Next Generation
The evolution of data center cooling leads to immersion

How GRC Liquid Immersion Cooling Works:

Data Center Server Racks Filled with Electrosafe™ Coolant

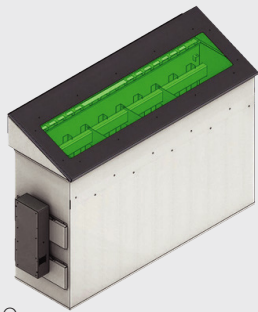Heat Exchanger Filter Coolant Pump

Evaporative Cooling Tower

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	
Unable to Cool Emerging Systems	**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.

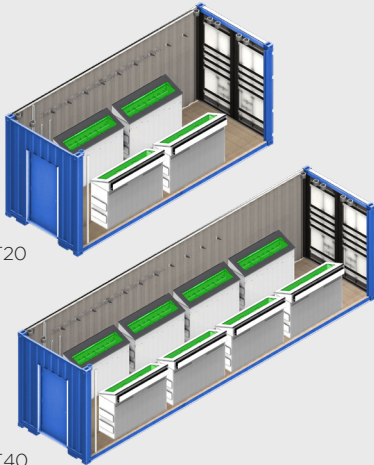# ICE Solutions — Power Your Full Computing Potential

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)

GRC GREEN REVOLUTION COOLING
The Immersion Cooling Authority

512.692.8003
info@grcooling.com
grcooling.com

📞 **+91 8806660084**　🌐 **www.prasa-pl.com**　✉ **enquiry@prasa-pl.com**

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

Global Presence
Our deployments are in **Thirteen** countries world-wide:

United States
Sweden
United Kingdom
France
Netherlands
Austria
Japan
Spain
Trinidad Tobago
Singapore
Costa Rica
Australia
Romania

GRC ICEraQ's Are Compatible With Leading OEM Servers

DELL · SUPERMICRO · NVIDIA PREFERRED SOLUTION PROVIDER · PCPC DIRECT · GIGABYTE TECHNOLOGY · intel · PENGUIN COMPUTING

Hewlett Packard Enterprise · sgi · IBM · HGST a Western Digital company · Quanta Computer · CISCO

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The Immersion Cooling Authority | PRASA

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.

512.692.8003 • **info@grcooling.com** • **grcooling.com** • YouTube in f twitter

+91 8806660084 🌐 **www.prasa-pl.com** ✉ **enquiry@prasa-pl.com**