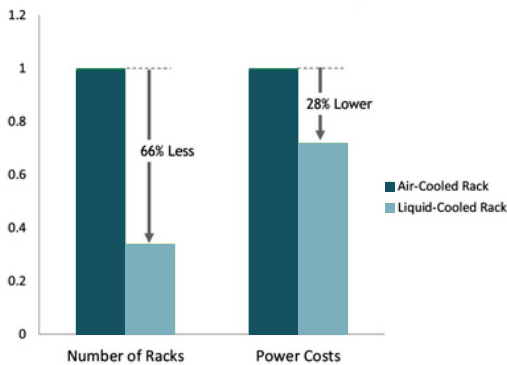




# IMMERSION COOLING FAQS

## RACK LEVEL COST REDUCTION

NVIDIA® A100 PCIe Air-Cooled vs NVIDIA® A100 PCIe Liquid-Cooled



Configuration:  
2000 servers each with 2x CPU | 192GB | 1TB SSD | 2x A100 80GB  
Air-cooled and liquid-cooled GPUs each at 300W TDP and same performance characteristics  
Air-cooled infrastructure @ 1.4 PUE; Liquid-cooled infrastructure @ 1.15 PUE  
150KW Air-Cooled Rack | 30KW Liquid-Cooled Rack | Power costs = \$0.2 per kWh

DIGITAL INNOVATION  
AT YOUR SERVICE.

ECS | Equus Compute Solutions | 201 General Mills Blvd.  
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Main (800) 641-1475 Support (800) 576-7929

## ABOUT ECS

ECS designs, builds and deploys the digital infrastructure that keeps companies relevant, viable and growing. From individualized computing, data center infrastructure and liquid cooling to AI enablement, telecom systems and 5G management, our customer-first approach delivers solutions that form, fit, and function seamlessly.

Compute services and solutions that keep your company relevant and growing in a digital economy.

- AI & Machine Learning
- Immersion Cooling
- 5G
- Innovation Center
- Cyber Security
- System Design & Integration
- Program Management
- Deployment & Installation
- Project Management
- Service & Support

## FAQs

**What is the ROI comparison between Immersion Cooling and Air-Cooled systems in terms of power consumption?**

It's density dependent, with high performance workloads ROI is typically less than 6 months.

**How do maintenance costs in Immersion Cooling Tanks compare to those in Air-Cooled Racks?**

Maintenance costs in Immersion Cooling tanks are notably lower due to consistent temperature and humidity levels compared to fluctuating Air-Cooled environments. Additionally, there are minimal contaminants in Immersion Cooling tank environments.

**What are the primary safety advantages associated with an Immersion Cooling setup?**

- Hearing Safety: Absence of high-frequency noises.
- Fire Safety: The zero flash point fluid eliminates the risk of fire, containing it within the power supply and wires.

**What are the insurance benefits associated with implementing an Immersion Cooling system?**

Ongoing studies are exploring the insurance benefits of deploying immersion cooling systems, with initial findings indicating positive trends.

**What are the available form factors?**

A small as 4U for Edge Compute/Small Business/Retail up to production tank capable of 252 KW.