

# Edge Data Center Immersion Liquid-Cooled Overseas Warehouse



## Overview

ITRI and KDDI, in cooperation with other IT enterprises, developed the Immersion Cooling Edge Data Center, using a non-conductive liquid coolant to enhance heat dissipation from servers and thus reduce carbon emissions up to 40%. Why Immersion Cooling Is a Game-Changer for Edge Data Centers Immersion cooling - where servers are submerged in thermally conductive but electrically insulating fluids - addresses many edge infrastructure challenges: Compact and Modular Designs: Immersion tanks can be engineered as self-contained. Data center operators are evaluating liquid cooling technologies to increase energy efficiency as processing-intensive computing applications grow. According to the Dell'Oro Group, the liquid cooling market revenue approach \$2B by 2027 with a 60% CAGR for the years 2020 to 2027, as organizations. The DCX Edge Server Immersion Enclosure is a compact, high-efficiency liquid cooling solution purpose-built for edge computing environments supporting AI workloads, 5G infrastructure, and low-latency data processing. The system enables deployment of high-density GPU servers directly at the network. This pre-integrated modular data center solution is designed for outdoor deployment and new edge data centers. Setting the Standard for Cooling Efficiency Resilient and Future-Proof Safe, Easy to Maintain and Sustainable Ready to connect with us and discuss.



## Article Content

Aug 06, 2025

Liquid and Immersion Cooling Options for Data Centers

Learn about the future of data center cooling and how liquid cooling solutions support high-density computing and enhance performance and energy efficiency. Explore our solutions now!

Jan 20, 2026

Liquid & Immersion Cooling in Colocation

Discover how colocation sites are adapting to liquid and immersion cooling in 2025. Learn why these technologies are essential for AI, HPC, and

May 26, 2026

Cooling Edge: Liquid Cooling for Edge/5G | LiquidStack

Liquid cooling solutions for local, regional edge, 5G and micro data centers, perfect for tight and challenging spaces. Learn about our edge cooling solutions!

Apr 01, 2026

Advanced Liquid Cooling Solutions Provider | LiquidStack

LiquidStack - your full service provider of the world's most powerful, sustainable and energy-efficient data center cooling technology Data centers and High

Nov 24, 2025

Immersion Cooling Data Centers | Hyperscale Builds 2025

Enter immersion cooling, once a niche technology used for experimental high-performance computing, now becoming mainstream in

May 07, 2026

Immersion cooling systems: Advantages and

Data center infrastructure is rapidly expanding, fueled by the ongoing rise of artificial intelligence (AI) and high-performance computing (HPC)

Mar 29, 2026

Integrated Immersion Liquid Cooling Edge Data Center Container

The 40-foot container integrates pre-configured subsystems including immersion cooling racks, power distribution, HVAC, structured cabling, monitoring systems, fire suppression, and security.

Aug 25, 2025

Liquid cooling: The Edge of reason

However, Sean Graham, research director for cloud to Edge data center trends at IDC, said that, while it certainly has its benefits for some

Nov 13, 2025

Designing the Next Generation of Edge Data Centers with Immersion

This article explores how immersion cooling is transforming edge data center design, the benefits it brings, and key considerations for deploying immersion-cooled edge facilities at scale.

May 14, 2026

A View into Liquid Cooled Modular DCs | LiquidStack

Modular solutions make edge computing even more attractive and affordable when liquid immersion cooling is deployed. Learn how in this blog.

Jul 13, 2025

Liquid Dreams: The Rise of Immersion Cooling and

Immersed in liquid or bolted to the seafloor, data centers are shifting to cool smarter, not harder. Underwater installations and liquid cooling are no

May 21, 2026

Immersion Cooling Is Ready for its Big Moment in the

Why Immersion Cooling? With all the discussion of data centers building to support AI, higher rack densities, and greater power demands, the cooling aspect is often

Oct 15, 2025

Immersion Cooling Solution for Data Centers

Implement Immersion Cooling in Your IT Deployment Strategy Submerge your server into a bath of non-conductive liquid and allow thermal generated by computer

Sep 05, 2025

Optimizing AI Performance with Immersion Cooled Data Centers

The Cisco-GRC partnership delivers a transformative solution for modern data center and edge deployment challenges. By combining Cisco's compute infrastructure expertise with GRC's cooling

Mar 16, 2026

## Addressing Edge Infrastructure Challenges with Immersion Cooled

Massive amounts of storage to cope with enormous data sets. Leading-edge front-end and back-end networking infrastructure. To make matters worse, in many cases, edge infrastructure is commonly

Sep 20, 2025

A review of the immersion liquid cooling technology for high ...

Traditional air cooling, with its limited efficiency, is increasingly inadequate to meet current demands. Immersion liquid cooling (ILC) has thus emerged as a critical research focus in data center

Oct 13, 2025

Liquid immersion cooling for sustainable data centers

Liquid immersion cooling technology is only the start. Read our upcoming blogs for more efficient and future-forward solutions in building a stronger, more sustainable data center industry.

Aug 05, 2025

DCX Liquid Cooling Systems

Edge Immersion Systems by DCX are compact, self-contained solutions that cool IT hardware by submerging it in dielectric fluid. Designed for space-constrained and

Jul 29, 2025

A Guide to Data Center Liquid Cooling

Explore data center liquid cooling as the solution to manage heat in high-density computing environments. Discover its efficiency today.

Aug 05, 2025

Immersion Cooling (article 1 of 5) - What It Is and Why It

What Is Immersion Cooling? Immersion cooling involves submerging IT hardware directly into a non-conductive dielectric liquid that absorbs heat from

Dec 22, 2025

DartPoints deploys TMGcore liquid immersion-cooled

DartPoints and TMGcore have announced the deployment of 11 of TMGcore's Edgebox platforms for connecting networks, content and applications

Sep 26, 2025

Edge Server Immersion Enclosure

Built on a highly compact and edge-optimized footprint, the DCX Edge Immersion Server Enclosure is engineered to deliver efficient liquid cooling for low- to

May 15, 2026

Integrated Immersion Liquid Cooling Edge Data Center Container

This pre-integrated modular data center solution is designed for outdoor deployment and new edge data centers. It adopts an advanced fully immersion liquid cooling architecture, submerging server

Jun 15, 2026

Liquid Cooling for Edge and Micro Data Centers

In micro data centers and at the edge, compute demands are high and space is limited. LiquidStack's DataTank™ 2-phase immersion cooling systems can cool

Aug 08, 2025

Turn Up the Volume: Data Center Liquid Immersion

How key developments in the immersion space are leveling up to global sustainability momentum in the data center industry's "summer of liquid cooling."

Dec 07, 2025

Liquid and Immersion Cooling Options for Data Centers

Data center operators are evaluating liquid cooling options, as processing-intensive computing applications grow. The market for liquid cooling is slated to reach \$3

Apr 21, 2026

Immersion & Liquid Cooling for Data Centers

Immersion cooling in data centers, as a form of liquid cooling, involves submerging servers in a non-conductive fluid to dissipate heat.

Nov 20, 2025

Immersion Cooling Edge Data Center

ITRI and KDDI, in cooperation with other IT enterprises, developed the Immersion Cooling Edge Data Center, using a non-conductive liquid

Aug 05, 2025

An Overview Of Liquid Immersion Cooling Technology

One form of liquid cooling, known as liquid immersion cooling, is a cutting-edge approach that involves submerging IT components, such as servers

Apr 14, 2026

Immersion Cooling Is Ready for its Big Moment in the

The immersion cooling technology minimizes energy consumption and eliminates the requirement for water as part of the cooling process, directly addressing a major

## Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://moletenare-ew.co.za>

Email: [info@moletenare-ew.co.za](mailto:info@moletenare-ew.co.za)

Phone: +86 138 1658 3346

Address: Ningbo, China

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