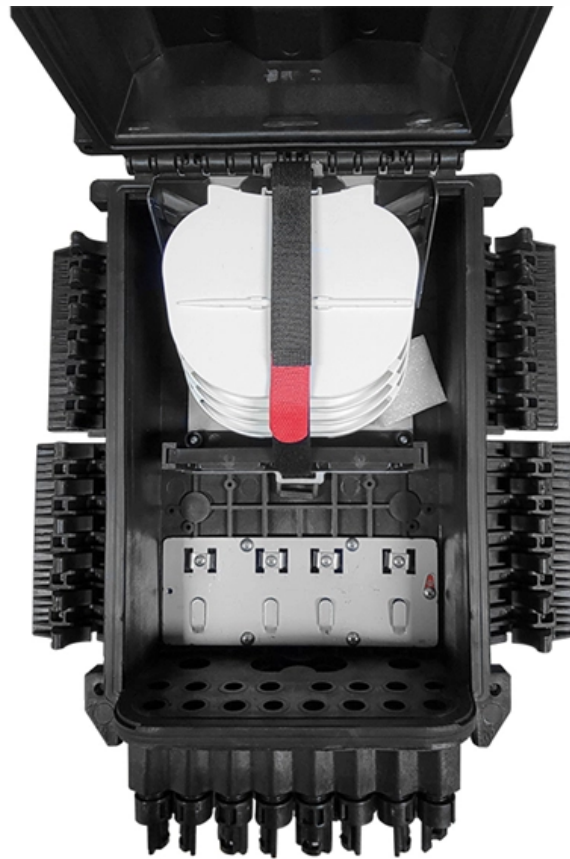


# **Rack-mounted immersion liquid cooling**





## Rack-mounted immersion liquid cooling

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# Immersion Cooling Data Centers , Hyperscale Builds 2025

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

## 2025 OCP Summit Highlights Data Center Efficiency

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Liquid-Cooling Supply Chain Inflection: As rack densities approach 1 MW, expect a structural shift in the cooling value chain--from cold plates and



## Liquid cooling becoming essential as AI servers proliferate

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High-density computing workloads like AI training and inference run too hot for traditional air cooling. Companies are increasingly adopting liquid cooling

## LiquidCool Solutions: Immersion-Cooled Rack Servers

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Meet soaring compute demands efficiently with LiquidCool Solutions' versatile, immersion cooling for high-performance GPU dense servers. Perfect for data centers, AI, edge computing, and tough

## Hybrid Liquid Cooling: The Future of AI Data Center

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Discover why hybrid liquid cooling is emerging as the only sustainable way to handle the extreme heat of AI workloads. Learn how this advanced



## DCX Liquid Cooling Systems

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Our portfolio also includes rack level components, cold plates, manifolds, server immersion systems, modular Hydro & Immersion DataCenters, liquid cooling optimized Dry Coolers, and Engineered Fluids.

## 5 Liquid Cooling Data Center Projects in 2026

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4. Keppel Data Centres - Singapore SGP5 (Liquid-Cooled High-Density Block) Keppel's 2026 expansion at SGP5 introduces a direct-to-chip liquid-cooled AI block engineered for 150-200

## Optimized & Advanced Data Center Liquid Cooling



## Piping

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Secondary loop circular piping is a critical link in the centralized liquid cooling architecture of the entire secondary loop system for data center liquid cooling, directly connects coolant distribution units

## Rack-Level Liquid Cooling-ingrasys

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Ingrasys offers a complete line of rack-level liquid cooling solutions based on where the heat is exhausted in the data center. These solutions include options for

## AI Datacenter Liquid Cooling Market to Reach USD 17.8 Billion by

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Rising GPU rack power densities, expansion of AI training clusters, and growing adoption of direct-to-chip and immersion cooling technologies are accelerating global demand for advanced



## **Immersion Cooling Is Ready for its Big Moment in the**

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If my colocation data center is enabling rack densities in the 50 kW-250 kW range, they must be able to cool the system running and using all that power. From

## **Why Liquid Cooling Is the New Standard for Data**

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Discover why liquid cooling is replacing air systems in modern data centers. Explore its role in AI workloads, energy savings, and sustainability in

## **Immersion cooling systems: Advantages and**

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Immersion cooling (see Figure 2) is a liquid cooling method in which servers and other rack components are submerged in a thermally conductive dielectric liquid

## Data Center Liquid Cooling Market

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The data center liquid cooling market is anticipated to grow rapidly due to the increasing use of AI workloads and high-performance computing (HPC). As racks

## AI Data Center Liquid Cooling Market to Jump at 17.2% CAGR

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Data Center Immersion Coolant Market Report, 2026 to 2036 GPU thermal design power (TDP) is approaching the 1,000W-per-chip threshold by 2026-27; air cooling has run out of headroom.



## Data Center Liquid Cooling Market Size, Companies

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Key Report Takeaways By cooling technology, direct-to-chip captured 42.85% of the data center liquid cooling market share in 2025; immersion cooling

## Data Center Liquid Cooling Market Outlook Report 2025

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Meanwhile, immersion cooling technology plays a vital role in AI-ready data centers, supporting high rack densities. It represented around 17% of liquid

## Liquid Cooling Rack Integration

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Direct-to-chip liquid cooled racks enable data centers to support thermal requirements



without major data center restructuring, unlike the alternative immersion cooling, which requires a significantly

## **AI Data Center Liquid Cooling Market to Jump at 17.2%**

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## **A review of the immersion liquid cooling technology for high**

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This paper provides a comprehensive analysis of ILC technology, examining coolant classification and selection criteria, the operating principles and performance of various liquid-cooling



## Liquid cooling in the generative AI era

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These racks can demand 100kW of power and house equipment valued at more than \$10 million per rack, often relying on direct-to-chip or

## GRC The Immersion Cooling Authority®

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Experience next-generation immersion cooling solutions from GRC. Our solutions increase performance, enhance sustainability and optimize TCO, setting new

## Schneider Electric Announces Industry's First Integrated Rack with

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Schneider Electric, the leader in digital transformation of energy management and



automation, with Avnet and Iceotope, announce the creation of the industry's first commercially-available integrated

## **How AI Growth Is Intensifying Data Center Water**

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Learn how AI growth is accelerating data center water consumption and why current cooling systems struggle to manage rising environmental

## **Why AI rack densities make liquid cooling nonnegotiable**

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As GPUs push rack power past 120kW, the data center's 40-year reliance on air cooling has hit a physical limit. From direct-to-chip to immersion,



## Immersion Liquid Cooling System

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OceanCool R Series Immersion Cooling OceanCool R Series immersion liquid cooling solutions consist of a modular immersion liquid cooling basin, in-rack coolant manifold, and an intelligent monitoring

## Immersion Cooling Hits \$931M as AI Racks Exceed 100 kW

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Immersion cooling's \$931 million in 2026 revenue confirms the technology has crossed from experimental to operational, but the market projection assumes AI rack densities will continue

## Top 10 Data Center Liquid Cooling Trends Shaping 2025 -

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Liquid cooling methods especially direct-to-chip and immersion are able to handle much



higher rack power densities, reduce hot spots, and keep

## Contact Us

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