

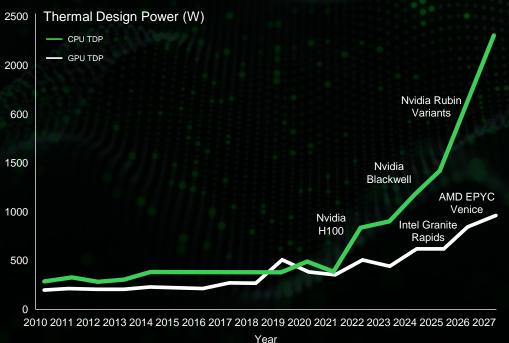
Our speaker



Thierry Chamayou

VP of Cloud and Service Providers in EMEA Schneider Electric

The GPU disrupted the way data centers are built & cooled







In two vears

700W (H100) 2700W (GB200)

Source: Data based on Schneider internal sources and market analysis

GPU based servers are driving rack densities towards 1MW – equivalent to 200 standard ovens



A The Register

Google details plans for 1 MW IT racks exploiting electric vehicle supply chain

Google is planning for datacenter racks supporting 1 MW of IT hardware loads, plus the cooling infrastructure to cope, as Al processing...

1 day ago

Al servers of the future: 'rack density' of 1000kW+ with NVIDIA's next-gen Rubin Ultra Al GPUs

Al servers are projected to consume over 1000 kW of power due to NVIDIA's upcoming Rubin Ultra Al GPU and HBM4 memory.

Nov 24, 2024

Data Center Dynami

https://www.datacenterdynamics.com > news > hypersca...

Hyperscalers prepare for 1MW racks at OCP EMEA

7 days ago — Google has joined Meta and Microsoft's collaboration project on a power rack the companies hope will help them reach rack densities of 1MW.

Life Is On

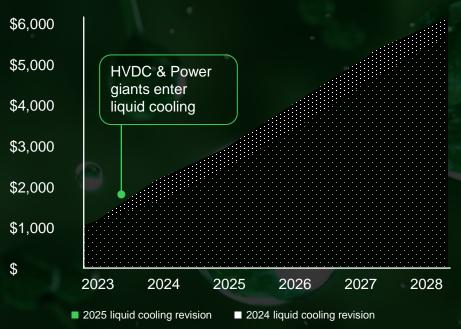


The third wave is liquid cooling for the Al-powered future



Deploying Liquid cooling at scale is NEW

Liquid Cooling Market Forecast Update



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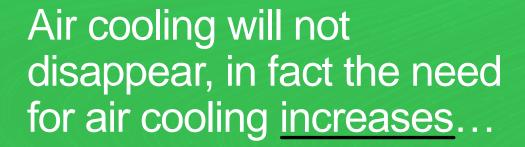


Our global footprint and experience in liquid cooling, deliver on a large scale to meet the current demands of AI and what's coming next.

6X in 5 Years

\$1B (2023) > \$6B (2028)





Direct-to-chip liquid cooling still requires air cooling for 10 to 30 percent of the heat load

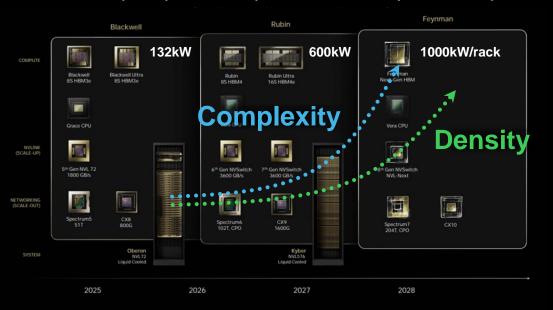


A 130kW rack requires **10-40 kilowatts** of air cooling



Cooling complexity tracks densities and after 70 years, the industry still has challenges with air cooling

NVIDIA Paves Road to Gigawatt Al Factories
One-Year Rhythm | Full-Stack | One Architecture | CUDA Everywhere





The unprecedented change in cooling architecture has created unique challenges





Questions are being asked.. and we are answering them...

How to scale and move fast?

Needed ops/management changes?

Best service practices?

Infrastructure Managment software needs?

Most efficient, sustainable cooling?

How to support hybrid cooling?

Right CDU/pod size?

Best architecture for application?

Liquid cooling risks (e.g., black water & filtration)?

How to upskill team?

Can I retrofit my air-cooled data center with liquid cooling?

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Direct Liquid Cooling System Challenges in Data Centers

White Paper 210

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Navigating Liquid Cooling Architectures for Data Centers with Al Workloads

White Paper 133

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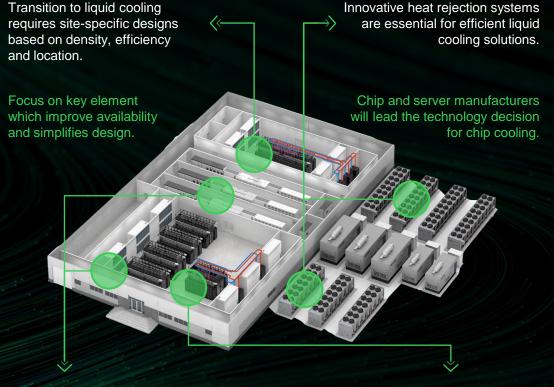
Liquid Cooling Technologies for Data Centers and Edge Applications

White Paper 265



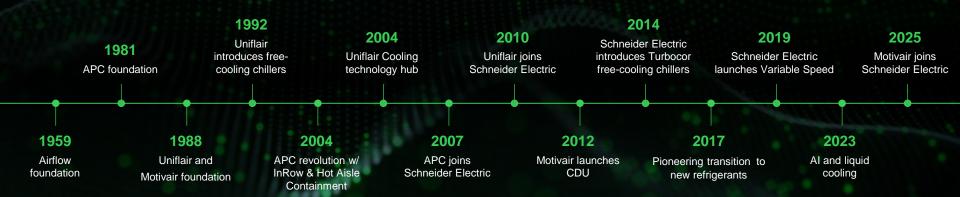


Liquid cooling requires an end-toend understanding, whether you are retrofitting an existing building, constructing a new one, or considering any stage of the lifecycle.



Heat rejection systems must balance efficiency & flexibility while accommodating direct liquid cooling, hybrid air cooling, and support space cooling. Hybrid environments need a complete and broad cooling portfolio adaptable to greenfield and brownfield data centers.

A 50+ Year History of Innovative Cooling Solutions

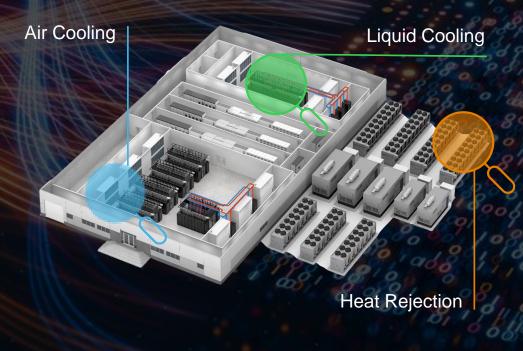


High efficiency cooling supporting Al workloads



From Chip to Chiller: the fully-integrated liquid cooling ecosystem

More than just a collection of components, this is a **co-ordinated architecture.** One that is designed to scale with AI, adapt to hybrid environments, and deliver performance without compromise.







Schneider Electric is aligned with all the main players in the Al ecosystem for solution design and deployments

Chips/GPUs







NVIDIA is the single most influential voice today

Most collaborated and partnered across the IT stack

System Integrators













Various partnerships with top AI players

Awarded by Nvidia and Intel in various categories of AI partnerships

Servers













Together make up 32% of server vendor unit shipments WW (44% of market is ODM direct)

Most partnered servers in alliance networks

Coverage by dedicated teams





Power up your Al data center infrastructure with comprehensive and ready-to-deploy reference design.

SCHNEIDER - FULL ARCHITECTURE & ANALYSIS SINCE 2013



Reference Design 99

Up to 70 kW / rack with liauid coolina



Reference Design 108

NVIDIA DGX SuperPOD / GB200 NVL72 up to 132 kW / rack with liquid cooling



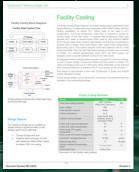
Reference Design 110

NVIDIA DGX SuperPOD / GB300 NVL72 / up to 142 kW / rack with liquid cooling













Schneider Electric enables you to move faster and scale smarter with our unrivalled & proven liquid cooling expertise and end-toend cooling solutions.



Engineering Experience



Reference Designs



Chip to Chiller - Liquid & Air



Software & Services



Al Ecosystem of Partners

Stay Updated on Al-Ready Data Centers

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