

○ Sovereignty
by design.
Proof
by metrics.

opcore

Tech Brief • HDD

○ Meet HDD, our Modular Data Center Design

What is a modular data center ?

Our modular data center design (HDD) is built around two external 1 MW units: one for power, one for cooling. Together, they form a high-precision industrial system that separates technical infrastructure entirely from the white space.

What makes us stand out?

Agile, reusable, and scalable from 1 MW all the way to 250 MW on demand.
By manufacturing modules in parallel with civil engineering works and factory-testing each unit independently, we compress timelines and eliminate uncertainty from the start.

A stable PUE, regardless of density

Thanks to our modular HDD (High Density Design) architecture, PUE stays below 1.2 across the entire IT workload spectrum — from a traditional configuration (80% air-cooling / 20% liquid) all the way to a fully liquid-cooled, 100% high-density AI configuration.

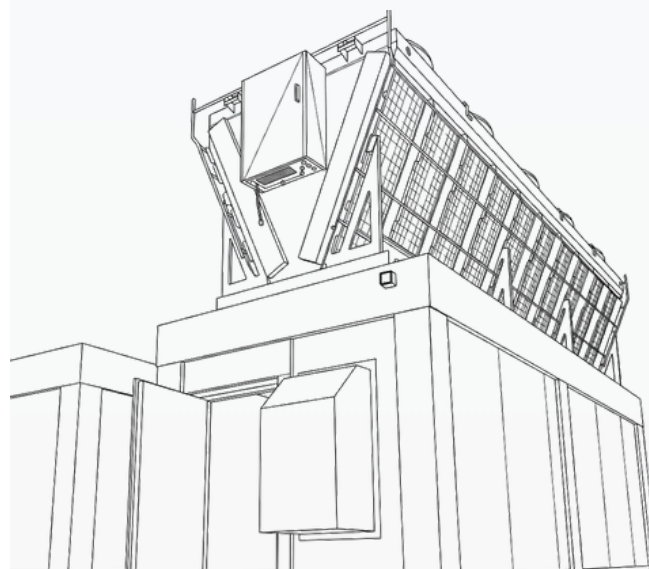
IT WORKLOAD	80-20	70-30	25-75	0-100
OPCORE HDD PUE	1,111	1,116	1,156	1,173

100 % in-house :
know-how, built to
the highest
standards.

We master end-to-end control of the value chain, driving strong operational gains.

What defines us?

- Dedicated Teams & Technical Experts
- 100% Internalized Project Management
- Construction Monitoring & Commissioning
- Rigorous Subcontractor Selection



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○ Performance you can predict

Delivering the high rack densities demanded by next-generation computing requires rethinking space utilization and infrastructure design to eliminate trade-offs between footprint and performance.

○ Time to market optimization

In fast-evolving digital markets, speed to capacity is a critical competitive advantage. Traditional sequential construction methodologies often create lengthy lead times and unpredictable delivery schedules, leaving organizations waiting for vital infrastructure to come online.

○ Designed for high density workloads

Meeting the extreme requirements of next-generation infrastructure necessitates an architectural pivot that prioritizes high-density deployment without compromising reliability or internal footprint.

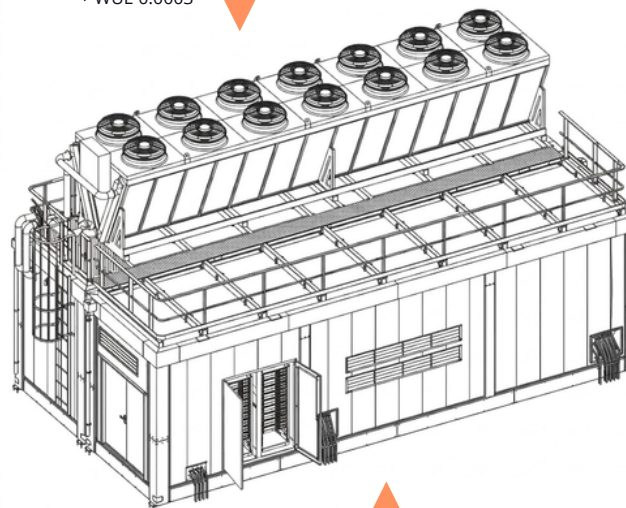
○ Taylor Made agility

Rigid hardware configurations and vulnerable supply chains lead to costly delays and operational compromises. True agility means engineering custom-fit infrastructure backed by a resilient, multi-sourced procurement model.



COOLING MODULE

- 36 sqm module (12mx3m) - Standalone, All in one
- Deliver 1MW net IT cooling capacity
- Includes chiller, dry-cooler, pumps
- Native DLC
- WUE 0.0003



POWER MODULE

- 36 sqm module (12mx3m) - Standalone, All in one
- Deliver 1MW net IT power capacity
- Includes UPS, transformer, MV & LV Switchboard
- Fire Resistant 2 hours

About Opcore

Leading French digital infrastructure operator OpCore is a French operator specializing in the design, construction, and operation of next-generation data centers. For over twenty years, the company has been developing digital infrastructure designed to support the digital transformation of businesses, public administrations, and major tech players. The company maintains end-to-end control over its project value chain, from site identification to infrastructure operation. This integrated approach enables OpCore to design high-performance, scalable digital campuses built to integrate sustainably into their environment. To learn more about OpCore, please visit opcore.com or follow us on [LinkedIn](#).