

THE CASE FOR IMMERSION

Density is no longer a facilities problem. It is a strategy problem.

Accelerated compute has outrun the air-cooled hall. Single-phase immersion removes heat at the source, so racks run at densities air cannot reach, in buildings that were never designed for them.

1.05-1.15

TYPICAL PUE, 42U PLATFORM

Up to 90%

LESS COOLING ENERGY, FLOOR SPACE AND WATER

<6%

INFRASTRUCTURE OVERHEAD

WELCOME

Cooling built as infrastructure, not as an accessory.

Coral Data Center designs and delivers single-phase immersion cooling platforms for organisations placing high-density compute close to the work: on the trading floor, in the research building, at the plant.

Each pod arrives as a commissioned assembly. Tank, pumps, controls, distribution and heat rejection are specified together, so the deployment question becomes power and space rather than a mechanical redesign.

THE PLATFORM IN BRIEF

Single-phase immersion, fluid agnostic

PAO and synthetic dielectric fluids

Oil to air, oil to water, oil to oil rejection

Smart sub-monitoring on every distribution unit

CORAL DATA CENTER



COMPUTE, IMMERSED

The Coral Immersion Platform

12U Edge Series and 42U On-Prem Series. Two form factors, one dielectric platform, engineered for the density your roadmap already assumes.

42U ON-PREM SERIES

Two hundred kilowatts, in the footprint of a single rack.



A stainless steel immersion tank for up to forty-two 1U servers, with an integrated pump box, dual multistage pumps on variable frequency drives, and PLC automation presented on two 42-inch displays.

KEY SPECIFICATIONS

Capacity	42U, up to 42 x 1U servers
Maximum IT load	200kW, typical PUE 1.05-1.15
Fluid	950-1000L, PAO or synthetic, fluid agnostic
CDU	Dual multistage VFD pumps, 25 m3/h, 58m head
Assembly	2,450 x 1,050 x 1,620 mm tank; 800 x 1,050 x 1,491.5 mm pump box

12U EDGE SERIES

The immersion pod that fits the building you already occupy.



A 12U indoor pod paired with an outdoor chiller and dry cooler package, linked over RS485. Dual redundant BLDC pumps alternate and report faults independently, and a smart PDU meters every outlet.

KEY SPECIFICATIONS

Capacity	12U internal, indoor immersion pod
Heat rejection	7 kW chiller plus 20 kW dry cooler
Pumping	Dual redundant BLDC, up to 280 LPM
Power	Smart PDU, 208V / 63A, 14 x C13
Pod envelope	900W x 1,150L x 1,491H mm



Schedule a technical evaluation today to discover how our sustainable, immersion-cooled data center pods can optimize your high-performance compute infrastructure.

ENQUIRIES

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