LIQUID IMMERSION TANK CABINET

IMMERSION COOLING, IN A SINGLE UNIT.

Servers sit directly in dielectric oil inside one stainless-steel tank cabinet. Every component is cooled evenly and GPU-dense hardware runs at full power, near-silently.



4–40 kW
HEAT EXCHANGE PER UNIT

13U · 21U
TANK SIZES

≈ 1.0
PUE

40 / 50 °C
OIL INLET / OUTLET

FROM CHIP TO COOLANT, INSIDE ONE TANK

Single-phase immersion

01
Hardware is submerged
Fanless servers or BBUs mount vertically, fully covered by dielectric oil.

02
Oil absorbs the heat
Oil enters at about 40 °C and flows over every component.

03
Heat leaves the tank
Warm oil at about 50 °C exchanges its heat through the unit's pipe interface.

04
Cooled oil returns
It re-enters at the base of the tank and the loop repeats.

WHY IMMERSION, WHY ONE UNIT

HIGH POWER DENSITY
Direct contact between hardware and oil removes heat far better than air, so more compute fits in less floor space.

NEAR-IDEAL EFFICIENCY
No server fans and minimal cooling overhead bring PUE close to 1.0 and lower total cost of ownership.

ULTRA-QUIET
With fans removed from the servers, the unit runs nearly silently, suitable for offices, labs and shared spaces.

STAINLESS & SEALED
Every wetted part is stainless steel. Sealed oil keeps dust and humidity away from the hardware.

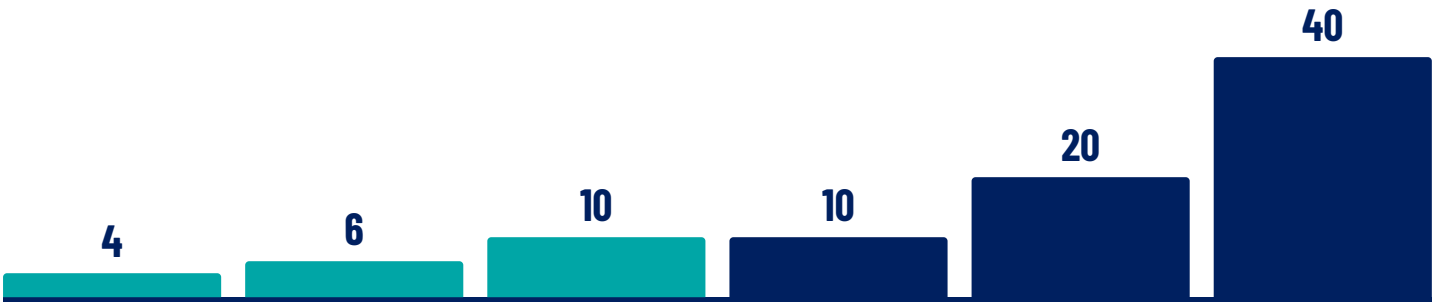
FLEXIBLE LAYOUT
Customizable U positions, side or bottom pipe entry, and quick deployment unaffected by climate.

EASY SERVICE
Top access door and servicing with the fluid online or offline, close to air-cooled maintenance.

Applications · AI inference · GPU clusters · Telecom base stations · Edge micro data centers · Liquid cooling labs & R&D

CHOOSE YOUR CAPACITY

Heat exchange per unit, kW



Parameter	LCT-04	LCT-06	LCT-10 13U	LCT-10 21U	LCT-20	LCT-40
Heat exchange	4 kW	6 kW	10 kW	10 kW	20 kW	40 kW
Available U slots	13U			21U		
Pipe interface	DN25	DN25	DN32	DN32	DN40	DN50
Cooling medium	Mineral oil, silicone oil, synthetic oil					
Oil inlet / outlet	40 °C / 50 °C					
W × D × H (mm)	1200 × 800 × 1250			1500 × 800 × 1250		
Unit weight	245 kg			350 kg		
Power supply	1~220 V, 50 Hz			3~380 V, 50 Hz		

EVERY NEXISIMMERSION UNIT

U layout · Customizable number of U positions

Piping · Side or bottom pipe connections

Fluids · Synthetic oils and fluorinated liquids

Access · Top access door with viewing window

Materials · All wetted parts in stainless steel

Mounting · Universal server and BBU installation



VARIANT

AIR-LIQUID TANK

For small rooms without outdoor space: the tank dissipates heat to room air through its own exchanger and needs no external cold source.

WHERE IT FITS

AI inference · GPU nodes for small and medium clusters

Telecom · BBUs and edge compute at base stations

Edge micro DC · Dense compute where space is scarce

Labs & R&D · Liquid cooling validation platforms

PLAN YOUR NEXISIMMERSION

Site survey, unit sizing, installation and after-sales support from one partner.

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Specifications subject to change without notice.