

MODULAR DATA CENTER DATASHEET

SOETECK · MODULAR DATA CENTRE CONTAINERS

Soetec Liquid-Cooled Container Data Centre Solution

Prefabricated liquid-cooled container modules from 50 kW to 100 kW per cabinet, with CDU, UPS and batteries

SKU ST-LCC

Soetec



HEAT REJECTION

Dry cooler or closed-cir...

PRICE

On request

REQUEST A QUOTATION ONLINE

serverinvest.com/product/soetec-integrated-solution-for-liquid-cooled-...



01 Product overview

The Soetec liquid-cooled container solution packages a complete high-density data centre into a factory-built enclosure. Cooling distribution, in-row air conditioning, UPS and battery storage are integrated and tested before shipment, so the module arrives as a standardised product rather than a collection of components to be assembled on site.

Four module configurations

High-Density Cluster Module – cold-plate cooling with 8 × 80 kW rack-mounted CDUs, up to 100 kW per cabinet and UPS capacity above 1,000 kVA.

Integrated Standard Module – 40 ft format with a 350 kW in-row CDU, 50 kW per cabinet, 600 kVA UPS and internal lithium batteries.

Edge Compact Module – 6.5 m footprint with 4 × 50 kW rack-mounted CDUs and a 300 kVA modular UPS for edge sites.

Immersion Cooling Module – immersion tanks served by 4 × 400 kW in-row CDUs with a 1,000 kVA modular UPS.

In every variant most of the IT heat is captured by liquid – via cold plates or immersion – and transported by the CDU to an external dry cooler or closed-circuit cooling tower. A smaller share of residual heat is handled by in-row air conditioners inside the container. This hybrid approach keeps GPU and accelerator servers within their thermal limits while avoiding the airflow constraints of conventional raised-floor rooms.

The containers suit AI training and inference clusters, HPC, colocation expansion and remote or temporary sites where building a new hall would take too long. Because power, cooling and IT space are...

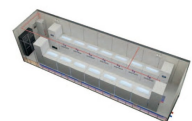
KEY SPECIFICATIONS

Heat rejection

Dry cooler or closed-circuit cooling tower (all modules)

HIGHLIGHTS

- Four module types: high-density cluster, standard, edge compact and immersion
- Cold-plate or immersion liquid cooling with rack-mounted or in-row CDUs
- Single-cabinet power from 50 kW up to 100 kW
- Heat rejection via dry cooler or closed-circuit cooling tower
- UPS from 300 kVA to over 1,000 kVA integrated in the container
- Factory-integrated and prefabricated for fast on-site commissioning



02 Full specifications

MODULE OVERVIEW

External dimensions (mm)	High-Density Cluster: 12800×3200×3800 · Integrated Standard: 12192×3200×3800 · Edge Compact: 6500×3200×3500 · Immersion: 12192×3200×3800
Single-cabinet power	High-Density Cluster: 100 kW · Integrated Standard: 50 kW · Edge Compact: 50 kW · Immersion: 55 kW
CDU	High-Density Cluster: 8 × 80 kW rack-mounted · Integrated Standard: 350 kW in-row · Edge Compact: 4 × 50 kW rack-mounted · Immersion: 4 × 400 kW in-row
Heat rejection	Dry cooler or closed-circuit cooling tower (all modules)
Air-to-liquid ratio	High-Density Cluster: 2:8 · Integrated Standard: 2:8 · Edge Compact: 1:9
In-row air conditioning	High-Density Cluster: 5 × 50.5 kW · Integrated Standard: 4 × 31.5 kW · Edge Compact: 2 × 30 kW
UPS	High-Density Cluster: >1000 kVA · Integrated Standard: 600 kVA · Edge Compact: 300 kVA modular · Immersion: 1000 kVA modular
Battery	High-Density Cluster: per project · Integrated Standard: 512 V 100 Ah lithium, >5 min · Edge Compact: 512 V 100 Ah lithium, 15 min · Immersion: per project

03 Engineered, delivered & supported by ServerInvest

Design & sizing

Rack count, IT load, power, cooling and redundancy engineered for your site.

Factory-integrated

Power, cooling, fire suppression and monitoring installed and tested before shipment.

Site & commissioning

Foundation, grid and fibre connection, integrated systems testing and handover.

Lifecycle support

Maintenance contracts, remote monitoring and 24/7 support options.



Interested in this solution?

Request a quotation online or talk to a solutions engineer — we reply within one business day.
office@serverinvest.com

