

COOLING SYSTEM DATASHEET

SOETECK · LIQUID COOLING & CDUS

Soetek Room-Level Liquid Cooling CDU

Room-level coolant distribution units from 1,000 to 2,000 kW for large cold-plate AI and HPC data centres

SKU SY-CDU-RM

Soetek



COOLING CAPACITY

up to 2,000 kW

POWER SUPPLY

380V / 3Ph / ...

COMMUNICATION

Modbus / SNM...

PRICE

On request**REQUEST A QUOTATION ONLINE**serverinvest.com/product/soetek-room-level-liquid-cooling-solution-room-liquid...

01 Product overview

The Soetec room-level liquid cooling solution is built around large coolant distribution units (CDUs) that serve an entire data hall of cold-plate liquid-cooled servers. A plate heat exchanger separates the facility cooling-water loop from the secondary technology loop, delivering conditioned coolant to the racks while keeping the two circuits isolated.

It is aimed at medium-to-large liquid-cooled data centres with 100 or more liquid-cooled racks, HPC clusters running CPU- and GPU-intensive workloads such as weather simulation and genome sequencing, and AI computing centres training large models on big GPU clusters.

Reliability and operation

The SY-CDU-RM range covers 1,000, 1,350 and 2,000 kW of heat exchange. On the primary side, cooling water enters at 35 °C and leaves at 45 °C; the secondary side circulates 25% ethylene glycol supplied at 40 °C and returned at 50 °C, with at least 120 kPa of available head for the rack manifolds. The source documentation also cites a solution range of up to 2,500 kW.

N+1 redundant pumps, multiple filtration stages and independent leak detection keep cooling running during maintenance or a component fault

Online water-quality monitoring and coolant replacement without shutdown

Modbus, BACnet and SNMP communication for remote data monitoring and early fault warnings

ServerInvest sizes, supplies and integrates room-level CDUs with liquid-cooled Supermicro GPU servers, racks, manifolds and power, and the full hall can be planned in our 3D...

KEY SPECIFICATIONS

Power supply	380V / 3Ph / 50Hz
Communication	Modbus / SNMP (BACnet supported)
Circulating medium	Cooling water
Inlet / outlet temperature	35 / 45 °C
Water pressure drop	< 100 kPa
Circulating medium	25% ethylene glycol
Supply / return temperature	40 / 50 °C
Discharge temperature range	40–50 °C
Available head	≥ 120 kPa
Pumps	N+1 redundant

HIGHLIGHTS

- Heat exchange capacity of 1,000, 1,350 or 2,000 kW per unit
- N+1 redundant pumps, multiple filters and independent leak detection
- Online water-quality monitoring and online coolant replacement
- Secondary loop with 25% ethylene glycol at 40/50 °C supply/return
- Modbus, BACnet and SNMP integration for remote monitoring



02 Full specifications

OVERALL

Heat exchange capacity	SY-CDU-RM-1000: 1000 kW · SY-CDU-RM-1350: 1350 kW · SY-CDU-RM-2000: 2000 kW
Rated power	SY-CDU-RM-1000: 18.5 kW · SY-CDU-RM-1350: 26 kW · SY-CDU-RM-2000: 33 kW
Net weight	SY-CDU-RM-1000: 1000 kg · SY-CDU-RM-1350: 1200 kg · SY-CDU-RM-2000: 1500 kg
Power supply	380V / 3Ph / 50Hz
Communication	Modbus / SNMP (BACnet supported)

PRIMARY SIDE

Circulating medium	Cooling water
Inlet / outlet temperature	35 / 45 °C
Circulating flow	SY-CDU-RM-1000: 86.86 m³/h · SY-CDU-RM-1350: 117.78 m³/h · SY-CDU-RM-2000: 173.73 m³/h
Interface size	SY-CDU-RM-1000: Ø125×2.0 mm · SY-CDU-RM-1350: Ø133×2.0 mm · SY-CDU-RM-2000: Ø159×3.0 mm
Water pressure drop	< 100 kPa

SECONDARY SIDE

Circulating medium	25% ethylene glycol
Supply / return temperature	40 / 50 °C
Discharge temperature range	40–50 °C
Available head	≥ 120 kPa
Circulating flow	SY-CDU-RM-1000: 95.39 m³/h · SY-CDU-RM-1350: 128.89 m³/h · SY-CDU-RM-2000: 190.78 m³/h
Pumps	N+1 redundant

03 Engineered, delivered & supported by ServerInvest

Engineering & sizing

Selected and sized against your real IT load, room and redundancy targets.

Installation

Delivery, installation and commissioning by our engineers across Europe.

Certified processes

ISO 9001, ISO 14001 and ISO 27001 certified project delivery.

Service & support

Maintenance, spare parts and support from a single partner.



Interested in this solution?

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