

COOLING SYSTEM DATASHEET

SOETECK · LIQUID COOLING & CDUS

Soetek In-Row Liquid Cooling CDU

Row-level coolant distribution units of 350, 600 and 900 kW for modular cold-plate GPU and HPC deployments

SKU SY-CDU-RW

Soetek



COOLING CAPACITY

up to 900 kWHEAT EXCHANGE
CAPACITY**SY-CDU-...**

NUMBER OF PUMPS

SY-CDU-...

PRICE

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

01 Product overview

The Soetec in-row CDU is a coolant distribution unit housed in a rack-format cabinet that sits directly in a row of liquid-cooled racks. It transfers heat from the secondary loop feeding the server cold plates to the facility water circuit through an internal heat exchanger, keeping the IT coolant isolated, filtered and at a controlled temperature.

It suits cold-plate liquid-cooled data centres deployed in modules of ten or more racks, HPC clusters for scientific computing and AI computing centres running medium-to-large GPU clusters for model training and inference.

Performance

Three models are available. The SY-CDU-RW-350 and -600 take cooling water at 35/45 °C on the primary side and supply 25% ethylene glycol at 40 °C (return 50 °C) on the secondary side, with at least 120 kPa of available head. The SY-CDU-RW-900 accepts softened water or glycol on the primary side and deionised water or glycol on the secondary side, with a supply temperature of up to 40 °C. The cabinets measure 600 × 1200 × 2200 mm (900 mm wide for the 900 kW unit), so they align with standard racks.

Redundant pumps, control sensors and filters plus independent leak detection maintain cooling during service or faults

Online water-quality monitoring and coolant top-up or replacement

Modbus and BACnet protocols for remote monitoring and early warnings

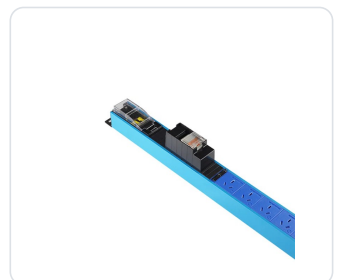
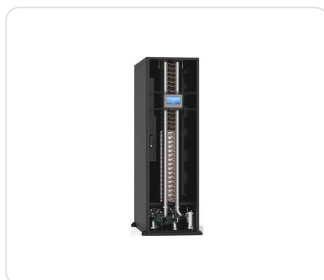
ServerInvest sizes, supplies and integrates in-row CDUs with liquid-cooled Supermicro servers, racks, manifolds and power distribution; plan the row in our...

KEY SPECIFICATIONS

Heat exchange capacity	SY-CDU-RW-350: 350 kW · SY-CDU-RW-600: 600 kW · SY-CDU-RW-900: 900 kW
Number of pumps	SY-CDU-RW-350: 2 · SY-CDU-RW-600: 1 · SY-CDU-RW-900: 2
Water pressure drop	RW-350 / RW-600: ≤ 120 kPa
Outlet temperature range	RW-350 / RW-600: 35–50 °C
Available head	RW-350 / RW-600: ≥ 120 kPa

HIGHLIGHTS

- In-row CDU models rated 350, 600 and 900 kW heat exchange
- Rack-sized cabinet: 600 or 900 mm wide, 1200 mm deep, 2200 mm high
- Redundant pumps, sensors and filters with independent leak detection
- Online water-quality monitoring and online coolant replacement
- Modbus and BACnet integration for remote monitoring and alarms



02 Full specifications

OVERALL

Heat exchange capacity	SY-CDU-RW-350: 350 kW · SY-CDU-RW-600: 600 kW · SY-CDU-RW-900: 900 kW
Rated power	SY-CDU-RW-350: 4.8 kW · SY-CDU-RW-600: 11.6 kW · SY-CDU-RW-900: 12 (max) kW
Number of pumps	SY-CDU-RW-350: 2 · SY-CDU-RW-600: 1 · SY-CDU-RW-900: 2
Operating weight	SY-CDU-RW-350: 600 kg · SY-CDU-RW-600: 550 kg · SY-CDU-RW-900: ≤ 800 kg
Dimensions (W × D × H)	SY-CDU-RW-350: 600×1200×2200 mm · SY-CDU-RW-600: 600×1200×2200 mm · SY-CDU-RW-900: 900×1200×2200 mm

PRIMARY SIDE

Circulating medium	SY-CDU-RW-350: Cooling water · SY-CDU-RW-600: Cooling water · SY-CDU-RW-900: Softened water or ethylene glycol
Inlet / outlet temperature	SY-CDU-RW-350: 35/45 °C · SY-CDU-RW-600: 35/45 °C · SY-CDU-RW-900: return ≤ 45 °C
Circulation flow	SY-CDU-RW-350: 30.387 m³/h · SY-CDU-RW-600: 52.26 m³/h · SY-CDU-RW-900: ≥ 90 m³/h
Interface size	SY-CDU-RW-350: Ø76.2×2.0 mm · SY-CDU-RW-600: Ø89×2.0 mm · SY-CDU-RW-900: -
Water pressure drop	RW-350 / RW-600: ≤ 120 kPa

SECONDARY SIDE

Circulating medium	SY-CDU-RW-350: 25% ethylene glycol · SY-CDU-RW-600: 25% ethylene glycol · SY-CDU-RW-900: Deionised water or ethylene glycol
Supply / return temperature	SY-CDU-RW-350: 40/50 °C · SY-CDU-RW-600: 40/50 °C · SY-CDU-RW-900: supply ≤ 40 °C
Outlet temperature range	RW-350 / RW-600: 35–50 °C
Available head	RW-350 / RW-600: ≥ 120 kPa
Circulation flow	SY-CDU-RW-350: 31.867 m³/h · SY-CDU-RW-600: 55.49 m³/h · SY-CDU-RW-900: ≥ 86 m³/h
Interface size	SY-CDU-RW-350: Ø76.2×2.0 mm · SY-CDU-RW-600: Ø89×2.0 mm · SY-CDU-RW-900: -

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.
office@serverinvest.com

