



NovaCool Rack CDU — INVCDU120A

Scalable Liquid Cooling for High-Density Workloads



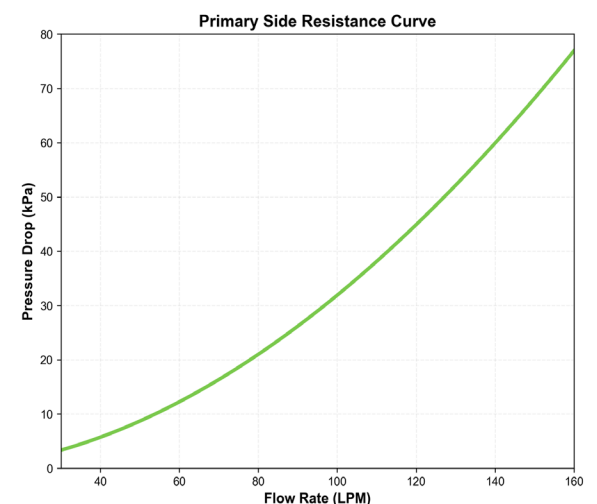
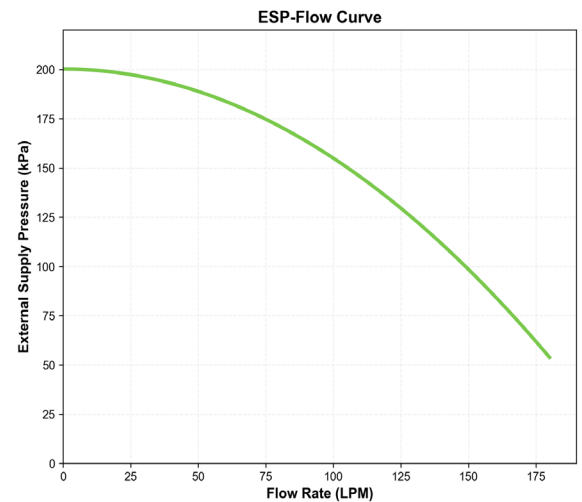
PRODUCT OVERVIEW

INVCDU120A Rack CDU delivers up to 120 kW cooling in a compact 4U form factor. With N+N redundant pumps and power supplies, plus intelligent monitoring, it ensures reliable, efficient, and scalable liquid cooling for AI and HPC workloads.



KEY FEATURES

- High Capacity — 120 kW cooling @ 4°C ATD
- Efficient Design — High-efficiency heat exchanger
- Liquid Compatibility — Supports DI water, 25% Propylene Glycol (PG25), and 25% Ethylene Glycol (EG25)
- 4U Rackmount — Fits standard 19" racks (EIA-310-D compliant)
- Redundant Design — N+N redundant pumps & PSUs for zero downtime
- Smart Monitoring — 7" HMI touchscreen with Modbus, SNMP & Web access
- Global Power — 100–240V AC, 50/60 Hz
- Leak Detection — Continuous monitoring for system safety
- Anti-Condensation — Dynamic dew-point temperature control



TECHNICAL SPECIFICATIONS

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Mechanical

Cooling Capacity	120 kW
Dimensions (W×H × D)	445 × 176 × 860 mm
Net Weight	71 kg
Operating Weight	82 kg
Shipping Weight	92 kg
Noise	≤55dB@3m

Power

Power Input	100-240V AC 50/60Hz
Rated Power	990 W
Rated Current	12A@115V 6A@230V
Power Feeds	N+N redundant power supplies

Environment

Operating Ambient Temperature	5°C to 45°C
Operating RH	10 % to 90 % (non-condensing)
Storage	-40°C to 70°C, 10% to 90% (non-condensing)
Max Altitude	2000 m

Primary Side

Hydraulic Connection	ISO Sanitary Ferrule Union 1.5S
Coolant Type	DI water
Inlet & Outlet Temperature	28°C/ 40°C
Flow Rate	140 LPM
Max Pressure	1 MPa (145 psi)
Water Quality	ASHRAE Standard Liquid Cooling Guidelines

Secondary Side

Hydraulic Connection	ISO Sanitary Ferrule Union 1.5S
Coolant Type	DI water/ PG25/ EG25
Inlet & Outlet Temperature	32°C/44°C
Flow Rate	140 LPM
Rated ESP	1.1 bar
Max Pressure	Pressure relief valve opens at 0.5MPa
Pump	N+N redundant pumps
Filtration	50µm. Optional 25µm.

Monitoring and Control

Monitoring	Flowrate/Temperature/Pressure/Water level/Pump speed/Ambient temperature and RH
Control Mode	Flow control/DP control/Dew point control/Temperature control/Manual mode
Communication Protocol	Modbus, SNMP, Web

Rack Mount

Mountable to EIA-310-D 19" racks
