



Experience Unmatched Efficiency with Inova CDUs

At the heart of sophisticated cooling solutions, Coolant Distribution Units (CDUs) play a pivotal role in distributing coolant or water seamlessly throughout the system. By effectively regulating and controlling liquid flow, CDUs maintain precise temperature levels and flow rates, guaranteeing peak performance.

Our CDUs provide a reliable and contaminant-free working fluid for a range of advanced cooling applications, including Rear Door heat exchangers and Direct-to-chip cooling solution. With our innovative technology, we empower businesses and organizations to achieve superior cooling efficiency and maximize the potential of their systems.

Higher Cooling Capacity with A Smaller Footprint

Inova CDU stands out for offering the broadest capacity range and the most energy-efficient design in the industry. ES

Bespoke Designs for Custom Requirements Inova CDU offers bespoke designs to perfectly suit your specific requirements, ensuring that you get a solution that aligns perfectly with your needs and goals.

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Rapid Delivery Lead Time

Count on us to deliver your cooling solution promptly, helping you meet tight deadlines and keep your operations running smoothly.

PLC Battery Backup for Continuity

Our PLC Battery backup module provides continuous power to the PLC controls in the event of a power failure. This feature ensures seamless operation and peace of mind, even in unexpected situations.

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Minimal Maintenance, Fast Payback

Our solutions are designed for minimal maintenance requirements, saving your time and resources in the long run. Additionally, the fast payback period on our products means you can start reaping the benefits of improved efficiency and cost savings sooner rather than later.

ZInova

In Row Coolant Distribution Unit

GENERAL DATA

- Redundant pump, power supply, and temperature-sensor.
- Built in PLC battery backup module.
- Quick visual of CDU health.
- Touchscreen Human-Machine Interface (HMI).
- Integral dosing pot and expansion vessel.
- Dynamic dew-point temperature control prevents condensation.
- On-board integrated leak detection system.
- 4" Hydraulic connections through top or bottom.
- External hydraulic connections, external to CDU enclosure at rear of unit.
- Remote control features through BACnet, Modbus.

PUMPS

- Dual Redundant end suction circulation pumps for the secondary loop.
- Independent VFD's with automatic pump changeover.
- Retractable sliders for ease of maintenance.



ZInova

In Row Coolant Distribution Unit

PIPING

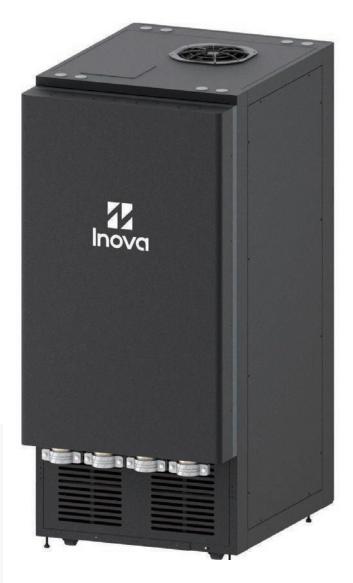
- 4" Victaulic groove connection termination, top or bottom
- 24 liters (3 x 8L) capacity expansion vessels.
- Auto Air Vents with check valve, WRAS approved.
- Integrated relief valve for safety, protection, and pressure regulation.
- 9 x Isolation valves for PHX and pump isolation.
- 3 x Check valves for backflow protection.
- 3 x DN80 strainers (allowing for 50 or 25 micron filters) filtration to secondary loop.
- 1 x 50 Micron filtration to primary loop.

PLATE HEAT EXCHANGER

• AISI316 Stainless steel copper brazed plate and frame heat exchanger.

CONTROLS/ INSTRUMENTATION

- Adjustable PLC Control system.
- PLC battery backup module.
- Touchscreen Human-Machine Interface (HMI).
- Temp and pressure sensors for primary and secondary loop.
- Water leak Detection System.



Inova

In Row Coolant Distribution Unit

MODEL PN: INVCDU2000	
Nominal Cooling Capacity	1368 kW at 7.2 °F (4.0 °C) approach temperature difference
Maximum Cooling Capacity	2052 kW at 9.0 °F (5.0 °C) approach temperature difference
Electrical Power Supply - Available Options	400V/3PH/50HZ
	480V/3PH/60HZ
	208V/3PH/60HZ
Power Feeds	Redundant A/B, Inbuilt ATS
Maximum Power Consumption	18.5 kW at maximum flow and pressure drop
Pump	
Pump type	Single Stage, End Suction
Pump Configuration	Dual pump (N+1), triple pump (N) run modes
Maximum pump flow - 2 pumps running	554 GPM
Integrated Variable Speed Drives	Included
External Pressure capability	2.88 bar (42.0 psi)
Primary Loop	
Hydraulic Connection	4" Victualic groove, Top or Bottom
Filtration	1 x 50 microns
Cooling fluids	ASHRAE W1 to W4
Coolant Fluid Type	Water, Water/Glycol
Secondary Loop	
Hydraulic Connection	4" Victualic groove, Top or Bottom
Filtration	3 x DN80 strainers (allowing for 50 or 25 micron filters)
Coolant Fluid Type	Water, Water/Glycol
Physical Specification	
Unit Width	39.37 in (1000 mm)
Unit Height	88.58 in (2250 mm)
Unit Depth	49.53 in (1258 mm)
Unit Dry Weight	2788 lbs (1265 kgs)
Unit Operating Weight	3346 lbs (1518 kgs)
Unit Shipping Weight	3009 lbs (1365 kgs)
Dew Point monitoring	Included
Primary Flow meter	Optional
Leak detection system	Included
Communication Protocol	BACnet, Modbus

Inova Cooling Offers

Prioritizing Innovation & Sustainability

With Inova, you gain access to a wide range of cooling options, ensuring you can find the perfect solution to optimize your infrastructure's performance while aligning with your sustainability goals.

01.

Traditional In-Row Cooling:

Inova's in-row cooling units are designed to fit seamlessly within your data center layout, delivering targeted cooling exactly where it's needed most, enhancing energy efficiency and reducing operating costs.

03.

Direct-to-Chip Solutions:

Our direct-to-chip cooling solutions offer advanced thermal management for demanding applications, ensuring precise temperature control and extending the lifespan of your hardware. Which includes the CDU and manifold products.

05.

Service & Maintenance:

We offer comprehensive services to ensure the longevity and efficiency of your infrastructure. Our services encompass every stage of the process, from initial design and architecture to component selection and ongoing maintenance.

02.

Rear Door Heat Exchangers:

With Inova's rear door heat exchangers, you can efficiently remove heat from your data center environment, ensuring equipment operates at peak performance while minimizing energy consumption.

04.

Containment Systems:

Inova offers containment solutions to optimize airflow management within your data center, reducing energy consumption and improving cooling efficiency.



About Inova

At Inova, our mission is to revolutionize the data center landscape by providing cutting-edge, reliable, and scalable equipment solutions.

Through our dedication to excellence, sustainability, and customer collaboration, we aim to be at the forefront of technological advancements, driving the industry towards new horizons and enabling our customers to achieve unprecedented success in their endeavors.

Listen, Innovate, Sustain

Selecting our CDU solutions means choosing a partner dedicated to providing a wide array of options for your data center needs. Enjoy the benefits of efficient cooling, energy savings, and a tailored solution that evolves with your infrastructure.

For inquiries and consultation, contact sales@inovadc.com.