

## PRODUCT DATA SHEET

# Flex Modular Rack-Level CDU

## Right-Sized Liquid Cooling for AI, HPC & Hyperscale Growth

Flex's Modular Rack-Level Coolant Distribution Unit (CDU) delivers scalable, high-performance cooling designed for the fast-evolving demands of AI, HPC, and hyperscale data centers. Developed by JetCool, this rack-level solution expands from 2 to 6 CDUs per rack, providing up to 1.8 MW of efficient, right-sized cooling capacity.

**Built for facilities deploying liquid cooling today and scaling to tomorrow's ultra-dense compute, the Modular Rack-Level CDU preserves valuable rack space, adapts easily to mixed hardware environments, and optimizes energy use by matching cooling output to real-time demand.**



### PRODUCT SPECIFICATIONS (six unit configuration)

Depth	950mm*
Width	Compatible with 19" rack & ORv3
Height	36 RU
Facility & IT Connections	Tri-clamp 4" or 6"
Primary Fluid	Water
Secondary Fluid	25% PGW
Max Power Usage	30.6 kW
Available Pumping Pressure	1,200 LPM @ 35 psid (redundant)
Module Cluster Control	Primary-secondary

### PERFORMANCE SPECIFICATIONS

	Thermal Load: 1 LPM / kW		Thermal Load: 1.5 LPM / kW	
	Redundant	Performance	Redundant	Performance
Cooling Capacity	1.2 MW	1.8 MW	800 kW	1.2 MW
Approach Temp.	6°C	9°C	5°C	6°C

\*Not including manifolds

Patented Technology, Additional Patents Pending.



## Modular Flexibility for Right-Sized Cooling Configure 2 to 6 units per rack

The Flex Modular CDU enables 2 to 6 units per rack, allowing operators to start small, add capacity incrementally, and adapt quickly while preserving rack space and efficiency.

### COOLING CAPACITY (at 1 LPM/kW)

Module Configuration	Capacity (kW)	Flow Rate (LPM)*	Delivered dP (psid)*
Modular x2	600	600	25
Modular x4	1,200	1,200	25
Modular x6	1,800	1,800	25

\*Available pumping pressure in performance mode (dual pumps running).

- ✓ **Integrated deployment supports mixed configurations of CDUs, servers and storage** with intelligent manifolding, optimizing rack space and efficiency.
- ✓ **Flexible thermal loading operating at 1 to 1.5 LPM / kW** to support varied hardware and capacity.
- ✓ **Scalable architecture from 2 to 6 CDUs per rack**, delivering 600 kW to 1.8 MW of cooling capacity in performance mode.
- ✓ **Maximize GPU utilization with warm return temperatures up to 70°C**, run at peak performance longer.
- ✓ **Primary-secondary control architecture** lets one CDU manage all others for unified system performance (group mode).
- ✓ **Versatile single-rack-width design compatible with liquid-cooling-depth racks**, enabling efficient deployment without increasing floorspace footprint.
- ✓ **Redundant pumps operate at low speeds** (2,900 RPM nominal, 3,600RPM max) for quiet, efficient, and reliable performance.
- ✓ **Automatic pump switching** ensures uninterrupted operation in case of pump failure or error.
- ✓ **Advanced cross-connected filtration monitoring** delivers low-loss, highly sensitive fluid contamination diagnostics.
- ✓ **Scalable design supports 2-10 racks** with dedicated cooling and 2N redundancy for maximum reliability.

## END-TO-END LIQUID COOLING PROVIDER

JetCool delivers end-to-end liquid cooling solutions — all under one roof. From cold plates and CDUs to manifolds and quick disconnects, we simplify your path to liquid cooling at scale. From chip to grid, we help you deploy faster, scale smarter, and cool more efficiently — with one trusted partner.

Precision Cold Plates

CDUs

Manifolds

Quick Disconnects