

# GigaModular™

## Coolant Distribution Unit

Up to 14MW of high-density direct-to-chip liquid cooling future-proofed with modular scalability



### Centralized, modular, scalable

GigaModular™ is the industry's first scalable, modular CDU built on a future-proof platform for expanding liquid cooling capacity. Deploy it fast, scale it on demand, and operate with ease thanks to centralized control, simplified service, and a pay-as-you-grow model — purpose-built for AI, HPC, and hyperscale data centers.

Scalable from 2.5 to 14MW, GigaModular CDU delivers right-sized cooling for any data hall.

Purpose-built to help operators scale AI capacity faster, more efficiently, and with less deployment friction.

#### CENTRALIZED INTELLIGENCE



Simplified operations at scale

#### SYSTEM-LEVEL SCALABILITY



Coordinated Infrastructure expansion

#### FLEXIBLE DEPLOYMENT



Adaptable to evolving AI environments

#### FUTURE-READY



Scale for next generation GPUs

# Right-sized to any datahall with modular building blocks



CONTROL MODULE

Redundant centralized system level control

- Features
- Dual concurrently maintainable controller redundancy to maximize uptime
  - Two-way Media Redundancy Protocol (MRP) ring network ensures uninterrupted control
  - Controls up to 8 pump modules

- Options
- Modbus, SNMP, Restful API with Redfish or BACnet

PUMP MODULE

Scalable cooling capacity from 2.5 to 14MW

- Features
- Maximum capacity 2.5MW/module at 4C ATD
  - Dual pumps supplying 3750 lpm at 3.5 bar available
  - Dual 25um strainers
  - Dual 316 stainless steel plate heat exchangers
  - Built in rope leak detection and stainless steel drip pan
  - TCS EM Flow Meter

- Options
- Choice of CCV, PICV or ePICV
  - External ATS and Harmonic Filter
  - FWS EM Flow Meter

HYDRONICS MODULE

Optional add-on module supporting system hydraulics

- Features
- 300L expansion tank
  - Stainless steel fluid make-up reservoir
  - Refill pump with integrated level monitoring
  - PSV (Pressure Safety Valve)

| PUMP MODULE                       |                                                                      |                     |
|-----------------------------------|----------------------------------------------------------------------|---------------------|
| Part Number                       | D1PM20-P                                                             |                     |
| Dimensions (HxWxD)                | 2285 x 1200 x 1250 mm                                                | 90" x 48.2" x 49.2" |
| Service Access                    | Front/Rear or Front/Side                                             |                     |
| Ambient Temperature Conditions    | 10 to 45 °C                                                          | 50 to 104 °F        |
| Ambient Humidity                  | 10 to 85% (non-condensing)                                           |                     |
| Certifications                    | ETL and CE certified to conform with UL and IEC 62368-1, RoHS, REACH |                     |
| Nominal cooling capacity @ 4C ATD | 2.5 MW                                                               |                     |
| Nominal Flowrate                  | 3750 lpm                                                             | 990 gpm             |
| Max Available Head                | 3.5 bar                                                              | 50 psi              |
| Primary Fluid Type                | Chilled water or glycol mixture                                      |                     |
| Secondary Fluid Type              | Treated water or glycol mixture                                      |                     |
| Water Inlet Temperature           | W17 to W45                                                           |                     |
| Primary and Secondary Connections | 6" sanitary flange                                                   |                     |
| Secondary Filtration              | 25µm                                                                 |                     |
| Power Input                       | 380 – 480V, 3 Phase, 50/60Hz                                         |                     |
| FLA / MCA / MOCP                  | 90A / 113A / 125A                                                    |                     |
| Nominal Power Consumption         | 52kW                                                                 |                     |

| CONTROL MODULE            |                                                                      |                     |
|---------------------------|----------------------------------------------------------------------|---------------------|
| Part Number               | D1PM20-C                                                             |                     |
| Dimensions (HxWxD)        | 2285 x 600 x 1250 mm                                                 | 90" x 23.6" x 49.2" |
| Service Access            | Front                                                                |                     |
| Certifications            | ETL and CE certified to conform with UL and IEC 62368-1, RoHS, REACH |                     |
| Communication             | Modbus, Restful API with Redfish, BACnet, SNMP                       |                     |
| Max Grouping Qty          | 8                                                                    |                     |
| Controller Redundancy     | N+N                                                                  |                     |
| Power Input               | Dual Feed 380 – 480V, 3 Phase, 50/60Hz                               |                     |
| FLA / MCA / MOCP          | 2.5A / 3A / 15A                                                      |                     |
| Nominal Power Consumption | 1kW                                                                  |                     |

| HYDRONICS MODULE        |                                                                      |                     |
|-------------------------|----------------------------------------------------------------------|---------------------|
| Part Number             | D1PM20-H                                                             |                     |
| Dimensions (HxWxD)      | 2285 x 625 x 1250 mm                                                 | 90" x 24.6" x 49.2" |
| Service Access          | Front                                                                |                     |
| Certifications          | ETL and CE certified to conform with UL and IEC 62368-1, RoHS, REACH |                     |
| Expansion Tank          | 300L                                                                 |                     |
| Fluid Make-up Reservoir | 120L                                                                 |                     |
| Power Input             | Dual Feed 380 – 480V, 3 Phase, 50/60Hz                               |                     |
| MOCP                    | 15A                                                                  |                     |