

### Benefits

Internet of Things (IoT), Artificial Intelligence (AI), and other data intensive technologies like virtual reality are requiring data centers and colocation environments to deploy servers with more intensive power and cooling requirements.

While liquid-cooled servers afford tremendous efficiency benefits in these high-density environments, it is no small task for an air-cooled data center to make the infrastructure changes needed to support liquid-cooled servers ... until now.

The Vertiv™ Liebert® XDU070 liquid-to-air heat exchanger technology for direct-to-chip cooling applications allows end users to easily and cost-effectively tap into the advantages of liquid cooling with no need to redesign existing air-cooled environments.

#### Benefits

- Reduced capital expenditures
- High cooling capacity with a compact footprint
- Simplified installation
- Improved heat rejection capacity
- Fan and pump redundancy
- Designed for easy serviceability with hot-swappable fans, pumps, and filters

*With its liquid to air heat exchanger the Liebert® XDU070 Coolant Distribution Unit removes the traditional barriers to liquid cooling, giving end users a cost-effective means for deploying liquid-cooled servers to support advanced applications.*

#### Liquid Cooling Solution for Air-Cooled Environments

The Liebert XDU070 makes it possible for data centers to deploy liquid cooled servers without extensive updates to existing infrastructure. The row-based heat exchanger is an easy-to-deploy, fully-enclosed system that is filled at the time of installation and mounted adjacent to or nearby a rack of liquid-cooled servers.

A secondary fluid network (SFN) running from the Liebert XDU070 to the racks is controlled by variable speed pumps to deliver just enough cooling capacity to support the liquid cooled servers. The liquid-to-air heat exchanger then rejects the heat into the data center to match your facility's current air-cooling configuration, seamlessly integrating with existing thermal management solutions.

#### Closed-coupled High Density Heat Rejection

Provides a high-capacity compact format that ensures easy, cost-effective deployment in any data center.

The SFN ensures that the cooling fluid in the data center environment can be kept to a minimum volume, is closely controlled for flow, pressure & temperature, and can be accurately maintained for fluid quality with integrated filters.

#### Complete Visibility and Control

- 7 in. color touchscreen Human-Machine Interface (HMI)
- Communication via Modbus RTU (RS485) and TCP/IP
- Full alarm monitoring, providing real-time status of the IT equipment
- Remote monitoring and control
- Unit-to-unit teamworking available for increased redundancy and control



## Technical Specifications

### Physical Data

Unit Dimensions (H x W x D), mm (in)	2300 x 600 x 1200 (91 x 24 x 48)
Shipping Dimensions (H x W x D), mm (in)	2400 x 1000 x 1400 (94.5 x 39.4 x 55.1)
Weight (Dry), kg (lbs)	408 (899)
Weight (Wet), kg (lbs)	457 (1007)
Weight (Shipping), kg (lbs)	560 (1234)

### Performance Data

#### at 40°C (104°F) fluid supply temperature

Nominal Cooling Capacity	70 kW @ 11°C Approach Temperature Difference (ATD)
Nominal Fluid Flow	60 l/min (15.8 gpm)
Maximum Cooling Capacity	100 kW @ 20°C ATD
Maximum Fluid Flow	80 l/min (21.1 gpm)

### Performance Data

#### at 45°C (113°F) fluid supply temperature

Nominal Cooling Capacity	70 kW @ 14°C ATD
Nominal Fluid Flow	80 l/min (21.1 gpm)
Maximum Cooling Capacity	108 kW @ 25°C ATD
Maximum Fluid Flow	100 l/min (26.4 gpm)

\*All Performance Data listed above was calculated with 6 fan operation

### Fan Data

Maximum Airflow, 6 Fan Operation (N+1)	10,100 CMH (5,945 CFM)
Maximum Airflow, 7 Fan Operation (N)	11,100 CMH (6,533 CFM)
Noise Level at 3m (10ft)	< 72 dBA (Sound Pressure)

### Fluid Circuit Data

Fluid Type	Water or PG-25 with inhibitors
Fluid Filtration	50µ
Total Water Volume	6.2 gal
Base Unit, L (Gal)	39 (10.3)
Reservoir Tank Capacity, L (Gal)	10 (2.6)
Piping Connection, Top and Bottom	1.5 in. Sanitary Flange

### Electrical Data

Power Supply	115V, 1PH, 60Hz	230V, 1PH, 50HZ
Full Load Amps (FLA)	16A	8A
Minimum Circuit Ampacity (MCA)	24A	20A
Overcurrent Protection Device (OPD)	40A	32A
Nominal Power Consumption	1.7 kW (at maximum flow and external pressure drop)	
Max Installed Load	3.91 kVA	
Dual Power Feeds (with ATS)	Standard Feature	

\* Contact Vertiv for additional power configurations

### Ambient Conditions

Operating Conditions	0 to 40° C (32 - 104° F), 10 to 90% RH (non-condensing)
Storage Conditions	-40 to 70° C (-40 - 158° F), 5 to 93% RH (non-condensing)

### Compliance

Safety Compliance	CE, cULus (pending), RoHS
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