



Vertiv™ 360AI

Solution Design Specifications

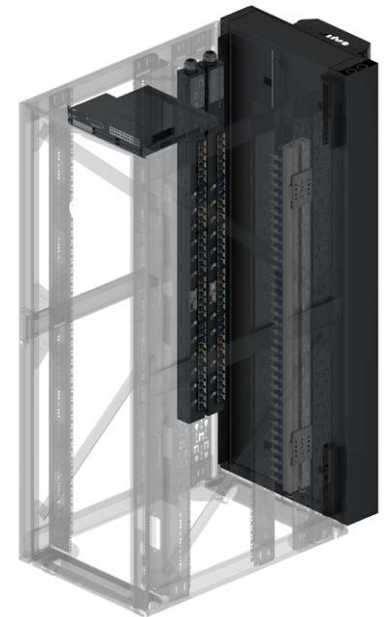
Model Number: 4XL400N



Liquid to liquid direct-to-chip with heat reuse

Model Number: 4XL400N

Intended to replace and optimize existing footprint while maintaining room neutrality. Combines the use of direct-to-chip liquid cooling with a rear door heat exchanger.



Rack Interior View

What's included

- 1 Rack Enclosures
- 2 Rack PDUs
- 3 CDUs
- 4 Busway, Taps, Endcap
- 5 Row manifold
- 6 Rack manifold
- 7 Rear-Door Heat Exchangers
- 8 TH Sensors – 2 per rack
- 9 Remote Management
- 10 Deployment + Commissioning
- 11 Maintenance

System capacity

4 Rack(s)

400 kW Total solution capacity

100 kW Load per rack

Technologies used

Cooling Method Direct-to-Chip + Rear-Door Heat Exchanger

Heat Rejection Type Water/Glycol

Key components

Rack Enclosures 48U, 800mm x 1200mm (VR9357)

Rack PDUs – 2 per rack 80A Monitored rPDU (VP7UA002)

CDU 2x Vertiv™ Liebert® XDU450

Busway 600A iMPB Busway, taps, and endcap

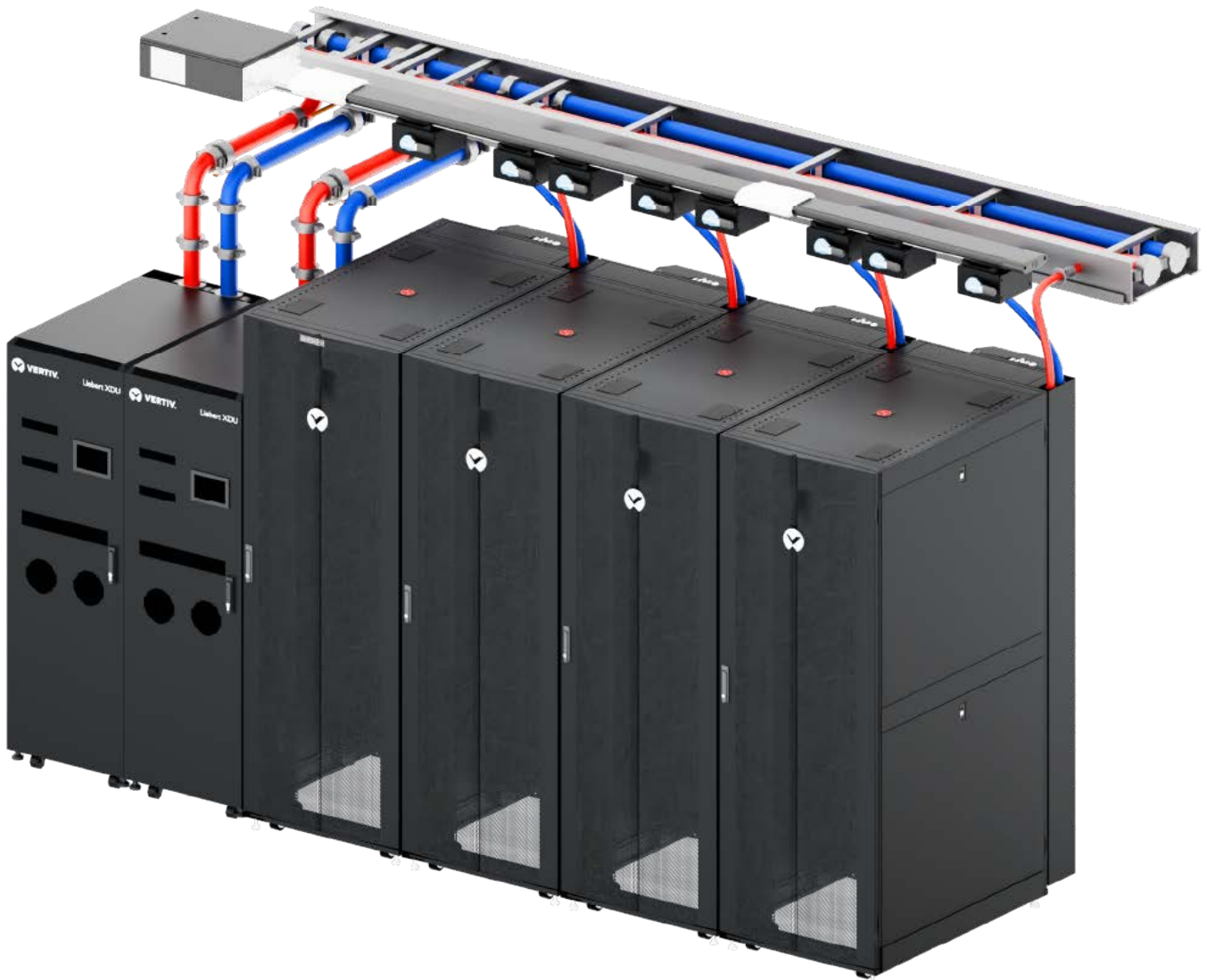
Rear-Door Heat Exchanger 4x 48U, DCD35

Dimensions (L, D, H): 14.42ft (4395 mm) x 4.92ft (1500 mm) x 7.22ft (2201 mm)

4XL400N

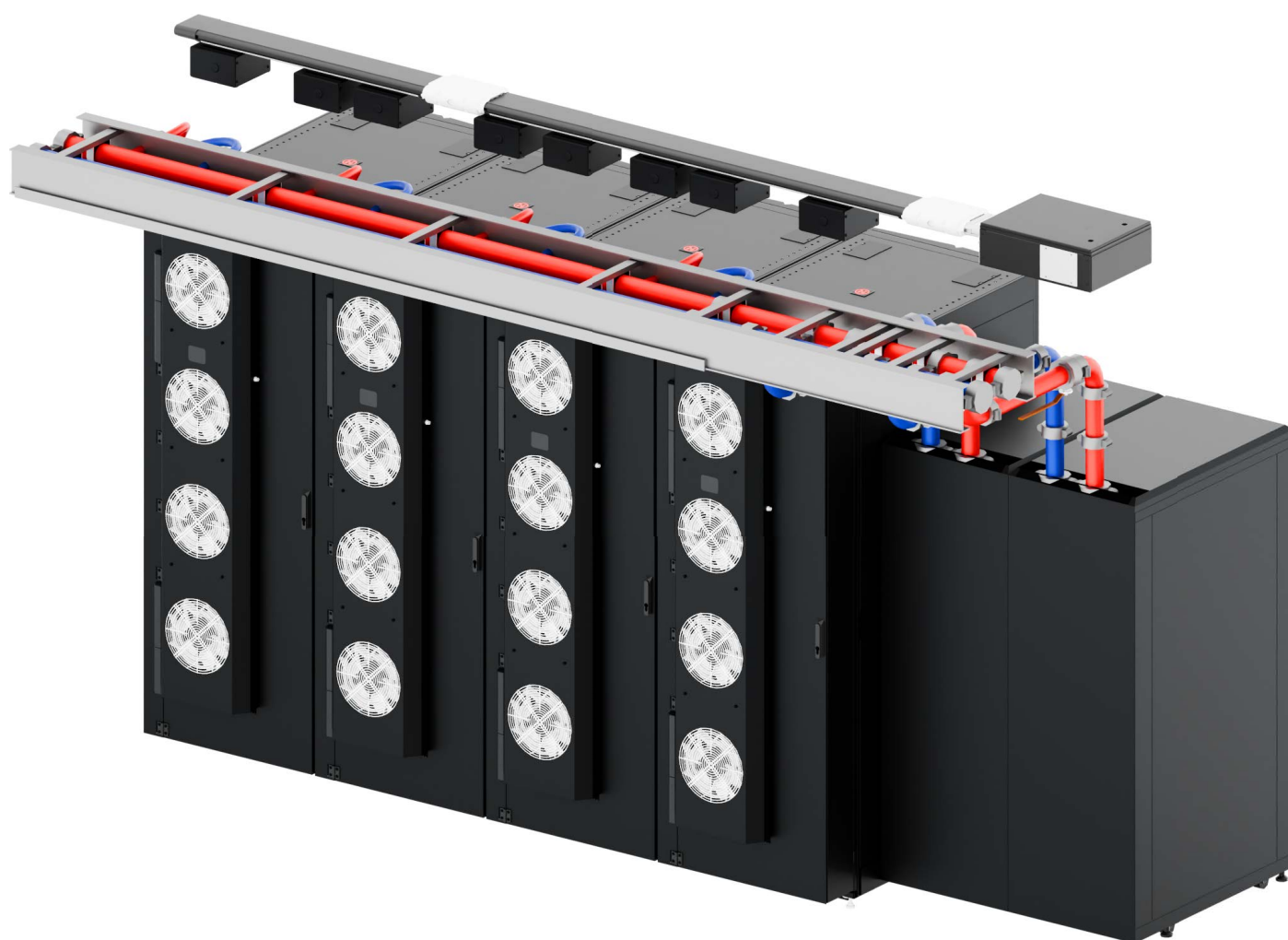
Contact Vertiv for Availability

Front Quarter View



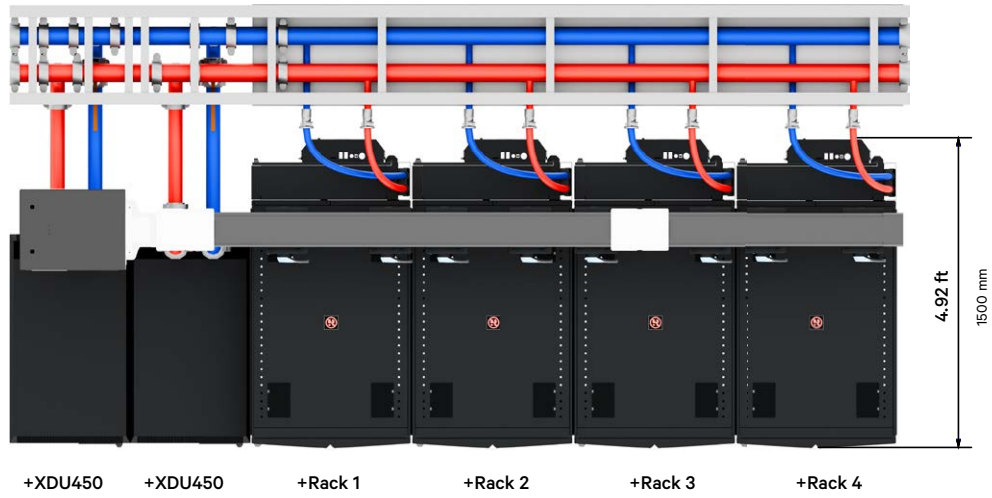
The images shown are for representation and may not be an exact representation of the product.

Back Quarter View

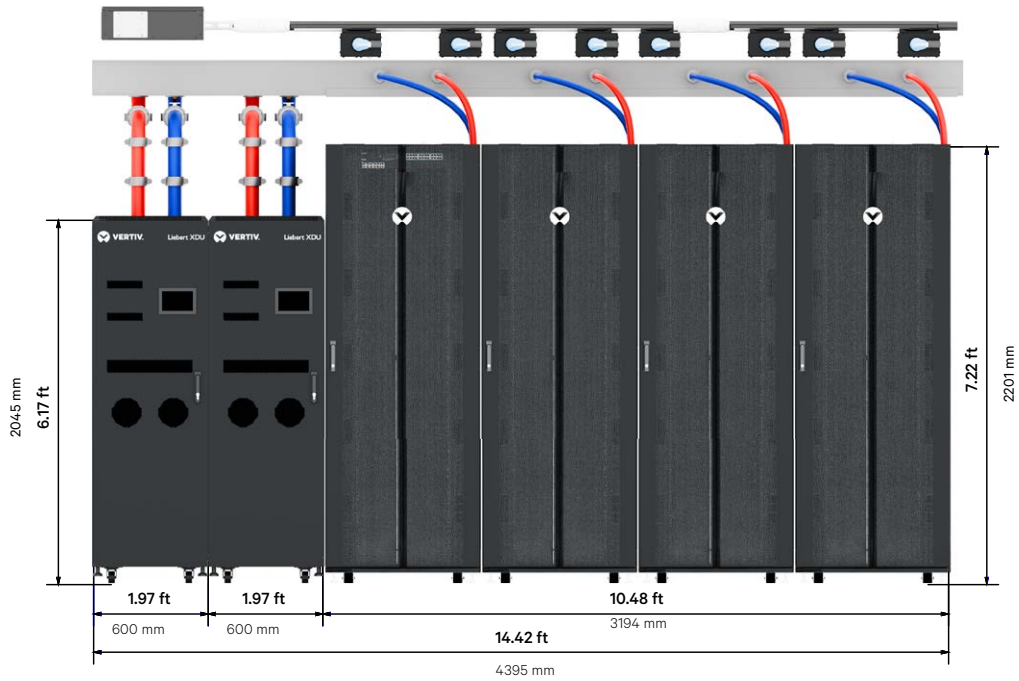


The images shown are for representation and may not be an exact representation of the product.

Top View

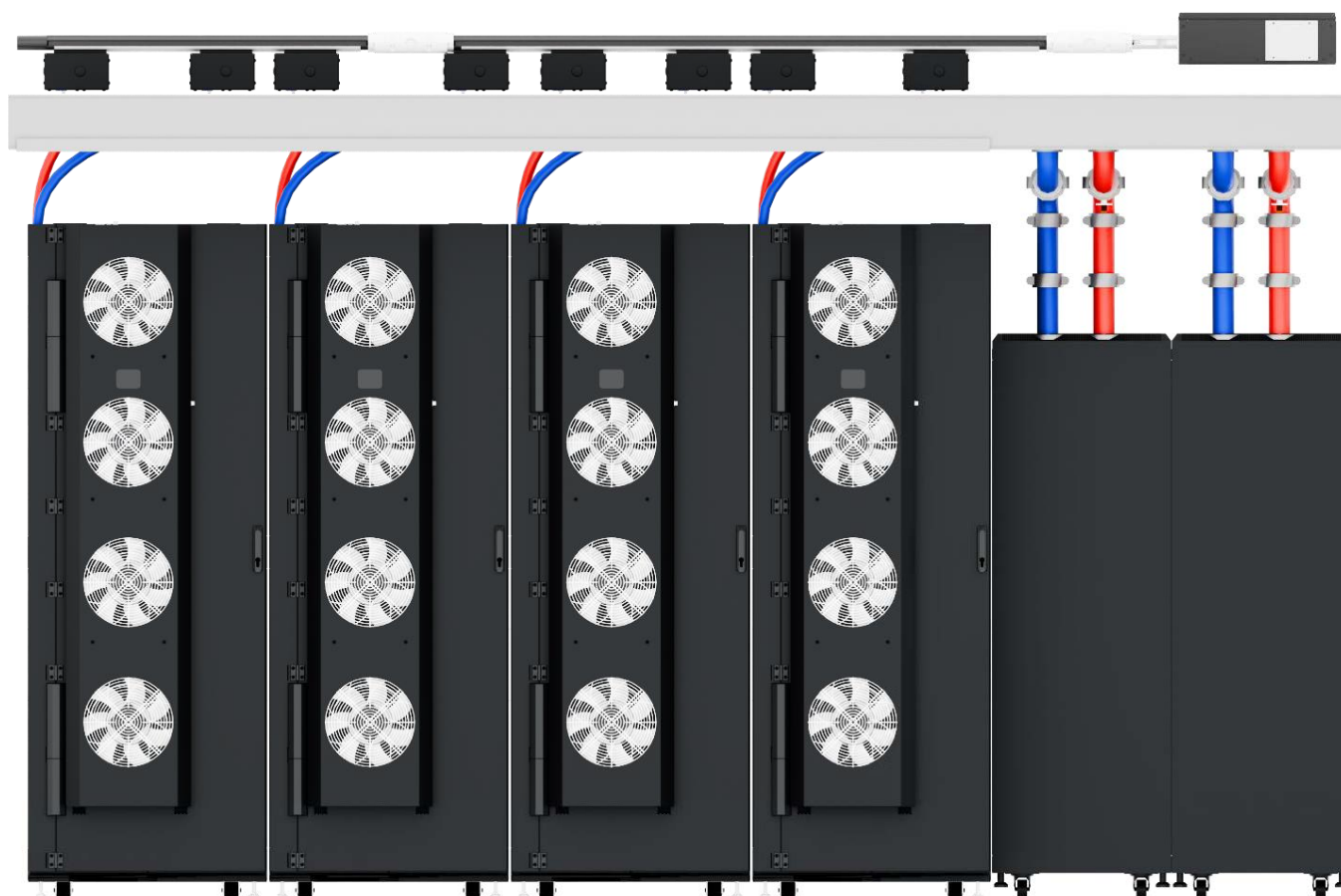


Front View



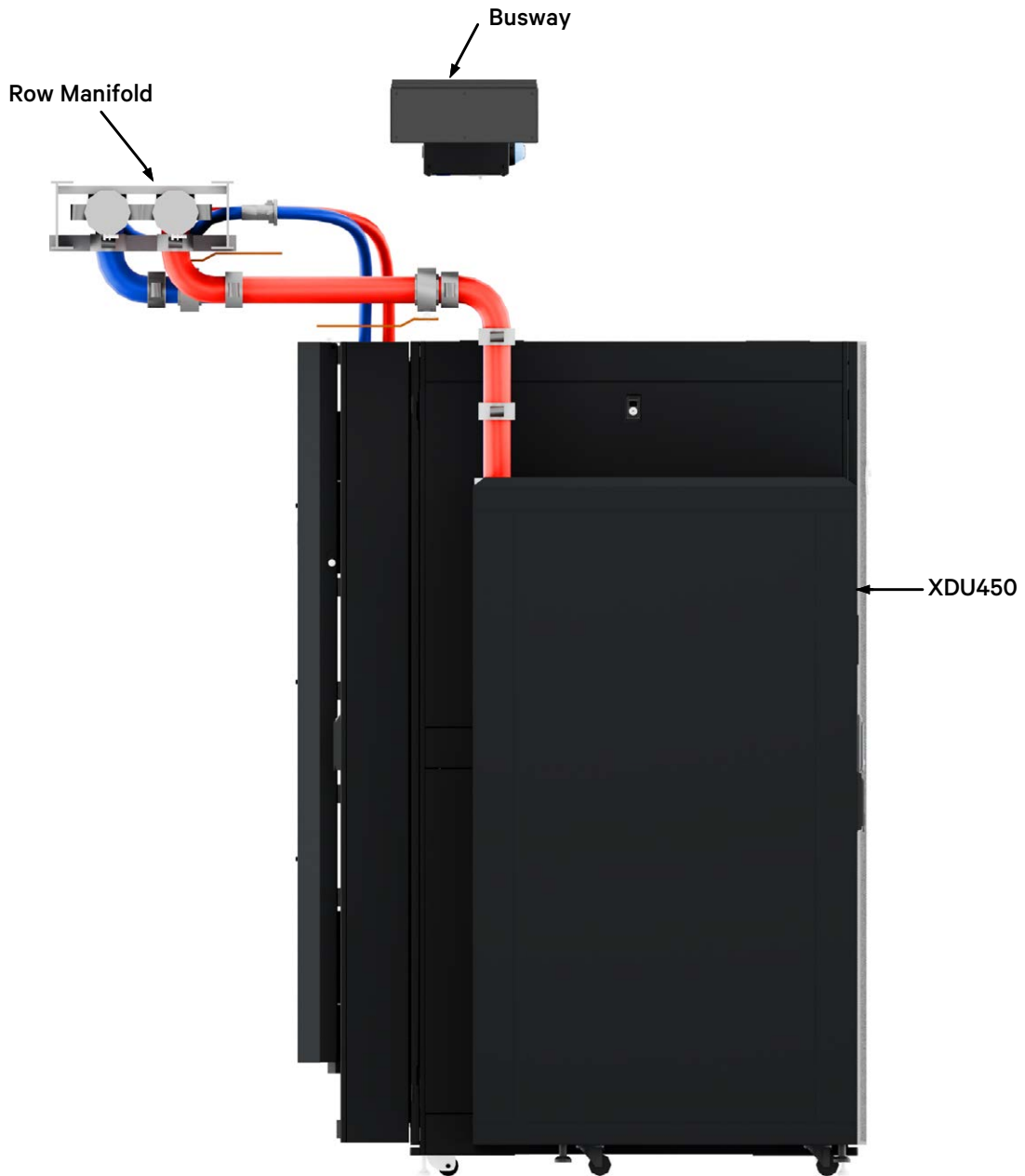
The images shown are for representation and may not be an exact representation of the product.

Rear View



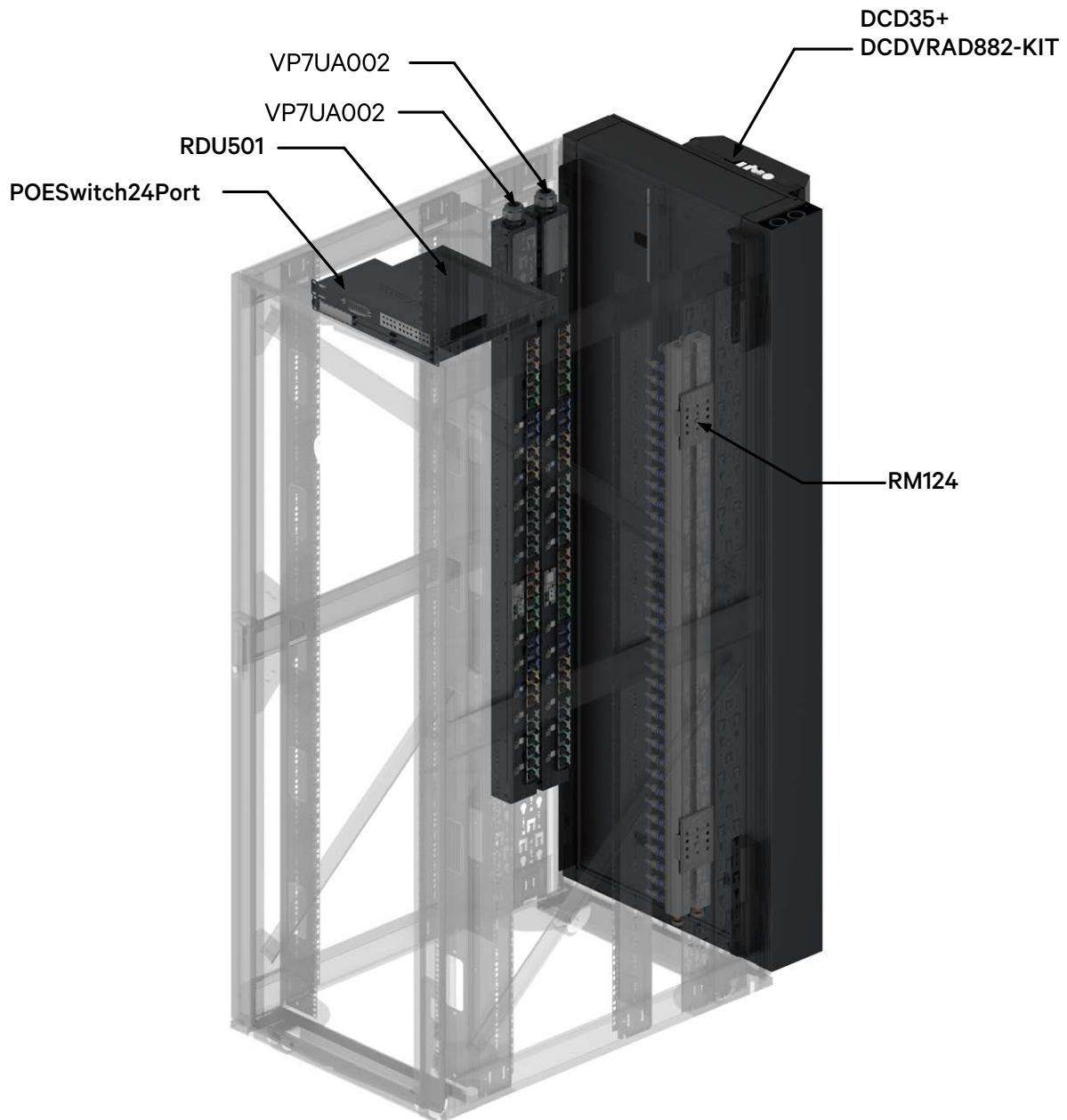
The images shown are for representation and may not be an exact representation of the product.

Side View



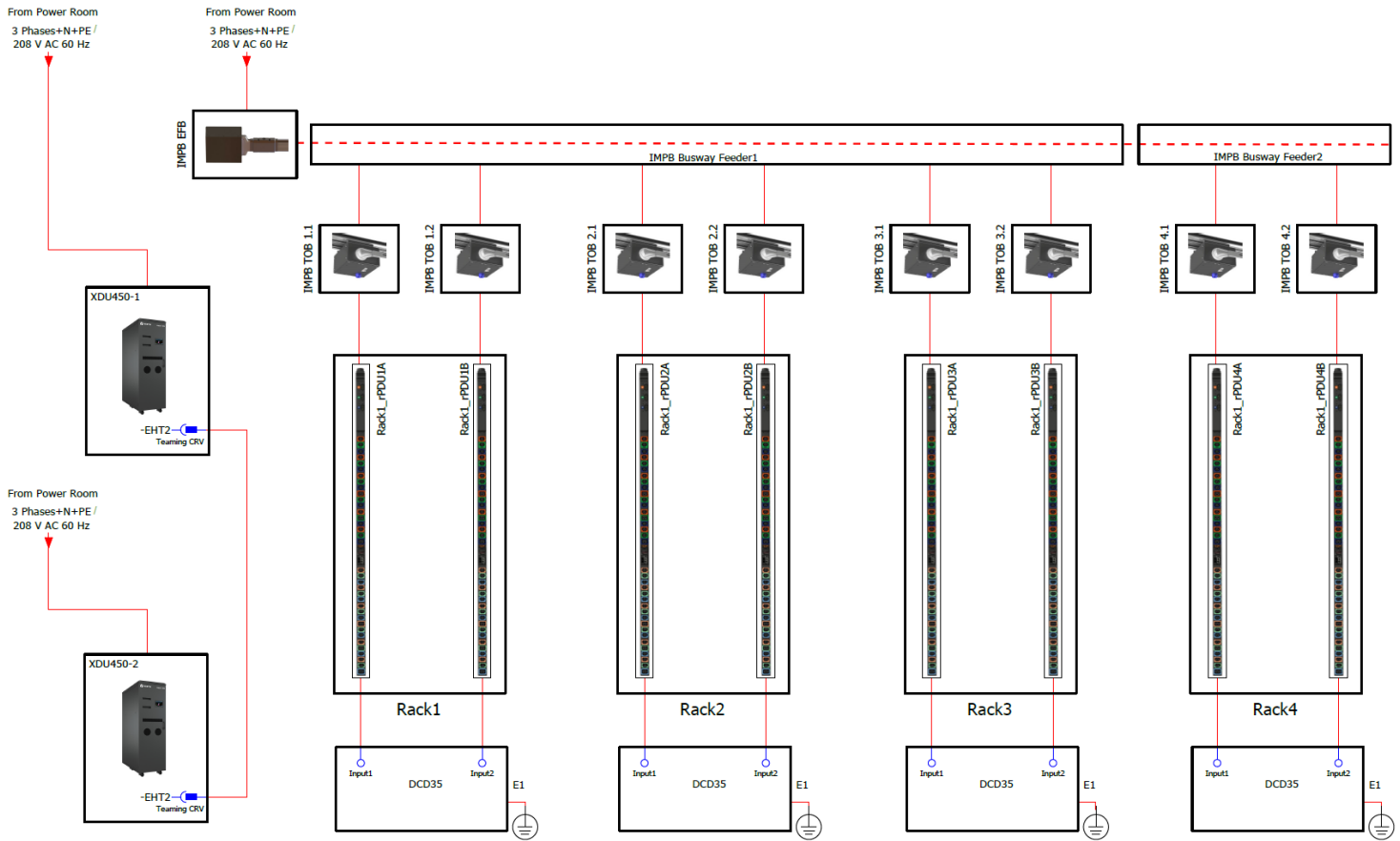
The images shown are for representation and may not be an exact representation of the product.

Rack ISO View

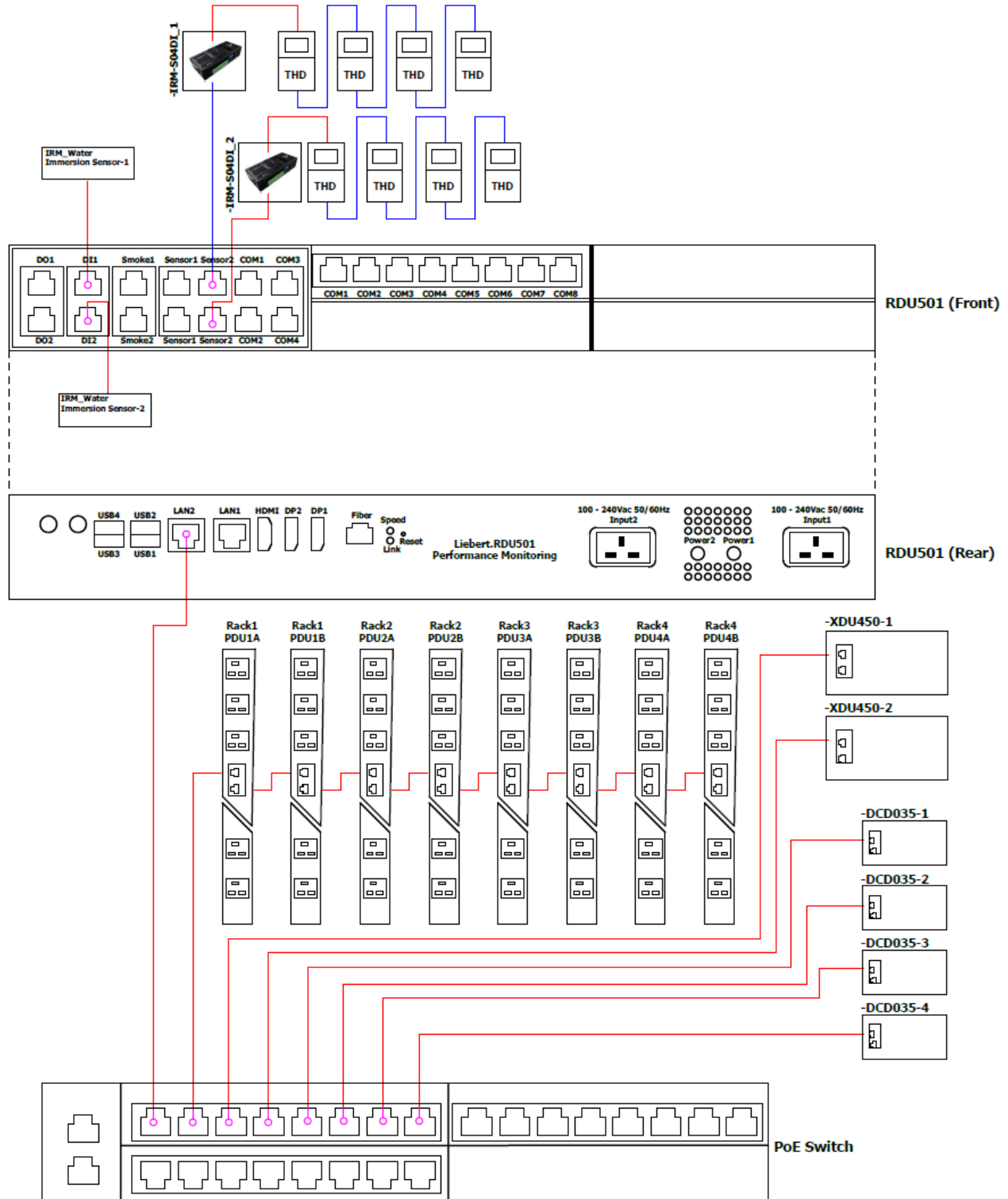


The images shown are for representation and may not be an exact representation of the product.

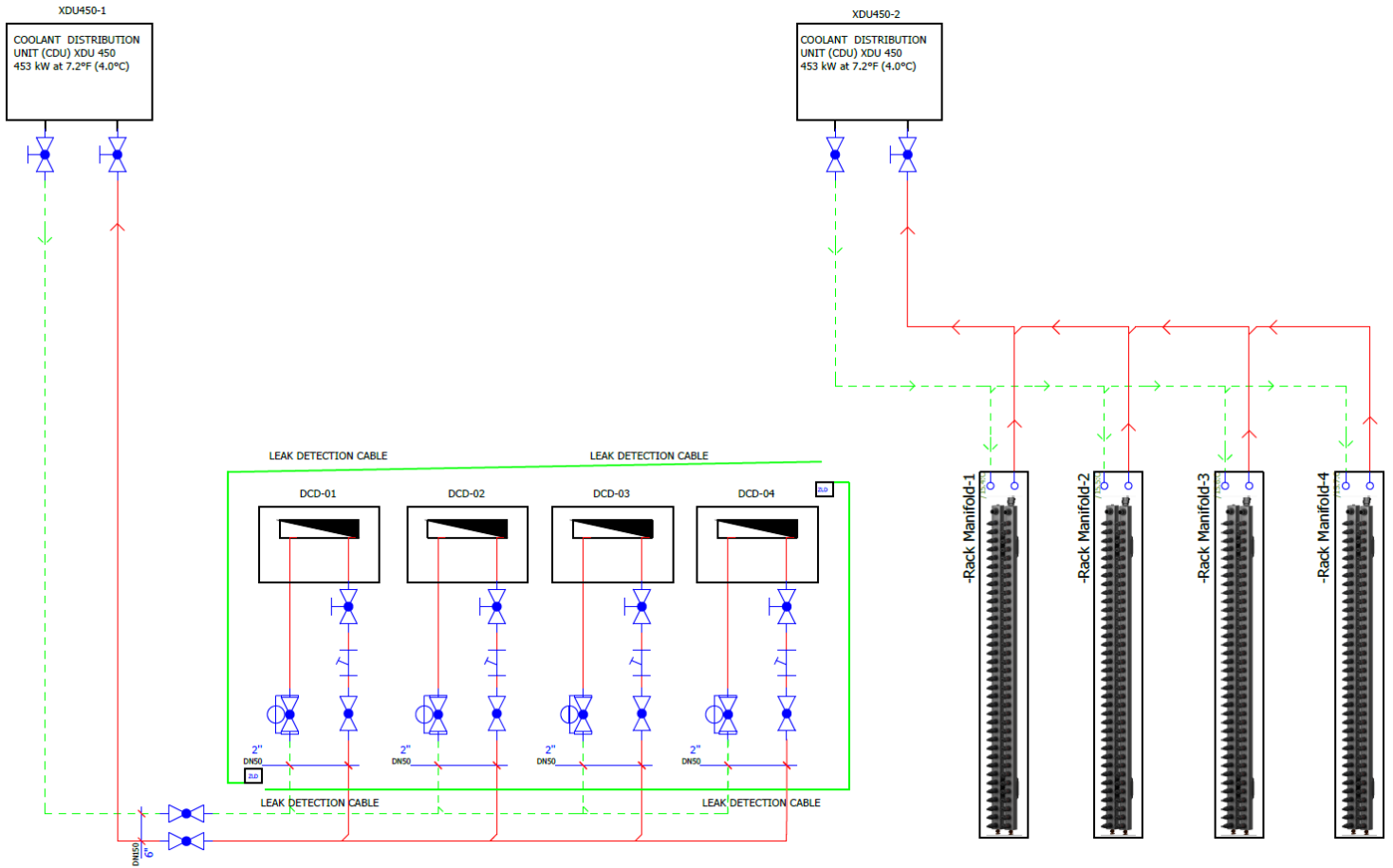
Simplified Electric Diagram – Power



Monitoring Diagram



Simplified Piping Diagram



Product Details

Vertiv™ Liebert® XDU450 Coolant Distribution Unit

Designed to support liquid cooling within high density environments, the Vertiv™ Liebert® XDU450 Coolant Distribution Unit is suitable for chip & rear door cooling applications to offer easy, cost-effective deployment in any data center.



Key Benefits:

- Achieve incredible efficiency in high-density environments.
- Protects secondary liquid network with strict conformance to wetted material compatibility.
- Intuitively designed for ease of deployment.
- Accommodates any facility design and with multiple cooling configurations.
- Robust design with confidence inspiring redundancy options including teaming for the most demanding applications.
- Integrated controller designed from the ground up to be easy to deploy and supports leak detection.
- Flexible support services available for installation and maintenance with same day options.

Product Details

Vertiv™ Liebert® DCD Water-Cooled Active Rack Door, 35kW

The Vertiv™ Liebert® DCD active chilled-water cooling unit is a highly efficient heat exchanger module that mounts on the rear of an IT rack and provides up to 35kW of room-neutral cooling. The active fan module mounts on the DCD passive door and aids the server fans in properly removing the heat load from the high-density application. The DCD can be supplied by either the existing chilled water system or by a coolant distribution unit, such as the Liebert® DCP, providing flexibility during installation.



Key Benefits:

- Low energy consumption using variable speed fans to match airflow with demand provides low operational costs and high energy efficiency.
- Mounts on the rear side of the network rack, saving valuable floorspace for additional critical IT equipment.
- Few moving parts enable a much longer product lifespan, ensuring high cooling availability for years.
- Multiple inlet/outlet water connection options provide flexibility during selection and installation.
- Non-condensing heat exchanger reduces the risk of damage to critical IT equipment, providing peace of mind to IT managers.
- Available with advanced monitoring controls to provide easy remote access through Modbus communication.
- Doors swing open 135°, allowing for easy access to equipment inside the rack.

Product Details

Vertiv™ Geist™ VP7UA002 rPDU

Upgradeable Switched Outlet Level Monitored rPDUs provide reliable power distribution to critical IT equipment while delivering individual outlet level control and a comprehensive view of outlet level power usage via remote network access. Includes environmental monitoring capabilities to obtain real-time environmental metrics.



Product Summary:

- rPDU, Switched Outlet Level Monitoring, 80A, 240/415V WYE, 57.6kW, Vertical, (36) Combination C13/C19, Hardwired, Black Powder Coat.

Key Benefits:

- Remotely reboot outlets to power cycle unresponsive IT equipment or increase runtime of critical equipment upon power failure with outlet-level control.
- Reliable power distribution with local and remote outlet-level power monitoring options offers quick access to critical power usage information down to the device level to evaluate energy usage trends and maximize uptime.
- Environmental monitoring capabilities with the addition of optional environmental sensors ensure users have critical infrastructure data at their fingertips to prevent climate-related equipment failure and system downtime.
- Fault-Tolerant Daisy Chaining with RSTP simplifies intelligent rPDU connectivity and ensures data is reported even when a break in the network chain occurs. Supports up to 40 rPDUs.
- Daisy-chain up to 50 devices on a single IP address and reduce deployment time with self-configuration of downstream devices.



Vertiv.com | Vertiv Headquarters, 505 N Cleveland Ave, Westerville, OH 43082, USA

© 2024 Vertiv Group Corp. All rights reserved. Vertiv™ and the Vertiv logo are trademarks or registered trademarks of Vertiv Group Corp. All other names and logos referred to are trade names, trademarks or registered trademarks of their respective owners. While every precaution has been taken to ensure accuracy and completeness here, Vertiv Group Corp. assumes no responsibility, and disclaims all liability, for damages resulting from use of this information or for any errors or omissions. Specifications, rebates and other promotional offers are subject to change at Vertiv's sole discretion upon notice.

GR-00088-INDIA (R08/24)