

nVent Liquid-to-Air Sidecar Heat Rejection Unit

OVERVIEW DESCRIPTION

The nVent Liquid-to-Air (LTA) Sidecar Heat Rejection Unit (HRU) is a completely integrated system that enables up to two racks of liquid-cooled IT equipment when a Facility Water System (FWS) is not available.

The LTA Sidecar comes in a 48U rack with footprint of 600mm (24 inches) wide by 1200mm (48 inches) deep.

Intelligent Design

The LTA Sidecar comes standard with 14 hot-swap fans in N+1 configuration, a reservoir pump unit (RPU) with N+N hot-swap pumps, a hot-swap controller, a hot-swap concurrently maintainable redundant filtration system, 6 x N+N redundant power supplies, integrated leak detection, leak-free hose connections, and an LED Light Path status panel.

Active components such as fans, pumps, power supplies, and liquid connections for filling and draining the system are all located on the front side of the Sidecar HRU for easy access.

AI Deployment & Beyond

Support for GB200 NVL36 and GB200 NVL72 rack configurations with a single GB200 NVL36 rack supported by a single Sidecar HRU (1:1) and a single GB200 NVL72 rack supported by two Sidecar HRUs (2:1) in parallel.





Hot Swap and Serviceability

- Toolless hot-swap, redundant pumps, fans power supplies, temperature & pressure sensors
- Toolless hot-swap system controller
- Hot-swap, redundant filters
- 25-micron or 50-micron filtration options
- Flexible hose connections allowing installation flexibility
- Top & bottom feed liquid connection points to IT equipment
- Cleanable, reusable filters reduce operating costs
- All hot-swap components are serviceable without interrupting cooling
- Pumps, fans, power supplies, and fill & drain liquid connections located on the front of the unit for ease of service and accessibility

Minimizing Failures & Leaks

- Integrated internal & external leak detection
- No connection force, full-flow liquid connections
- Patented technologies for error-free operation

Controller Features

- SNMP, Modbus TCP, Modbus RTU, HTTP(S), (S)FTP, Serial CLI, SSH, SMTP
- BACnet and others supported with Guardian Management Gateway
- Group control allows multiple LTA units to be operated in parallel across a single interface

Enablement

- Enables liquid-cooled IT equipment in air-cooled environments
- Localized, closed liquid cooling loop without dependency on any facility liquid infrastructure
- Wide environmental support range
- Standard 48U IT rack form-factor
- Performance optimized for low CFM/kW heat rejection performance
- Support for treated water or glycol mixtures up to 30%
- Stainless steel piping



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