

RackChiller In Row Air-to-Water Heat Exchanger



SMART PRECISION COOLING



nVent SCHROFF **RackChiller In Row** Chilled Water Heat Exchanger is designed to manage the critical cooling requirements of server and network racks. The entire system is housed in a separate enclosure and is integrated into a row of contained server racks. Active fans move the warm exhaust air from the servers through an air to water heat exchanger and the heat is transferred to a water circuit. The fans provide the chilled air to the equipment. The units can be scaled optimally to suit packaging density and redundancy can be implemented.

FEATURES

- Water connection from above or below
- Built-in redundancy through EC fan technology
- Dual A-B power feed (integrated ATS)
- Control with internal and external sensors possible
- Monitoring via SNMP or Modbus
- Compatible with nVent aisle containment system
- Available in 300 mm and 600 mm widths



BENEFITS

- Up to 85% efficiency improvement vs. CRAC based systems in optimal operating conditions
- Operates with cooling water temperatures up to 84°F / 29°C while maintaining air temperatures within ASHRAE A1 allowable envelope
- Minimal planning outlay; short setup time

TECHNICAL INFORMATION



Cooling performance 75kW*

- Room temperature from 22-24 °C/72-75 °F
- Fluid flow 5.75 m³/h/25.32 gpm/min
- Pressure loss 73 kPa including 3 m lines and control valve
- Water inlet temperature 14 °C/34 °F



Specification

- Height 42U
- Width 300 mm/600 mm
- Depth 1200 mm (300 mm unit adds 170 mm with front radial fans)
- Black RAL 9005; other colors on request
- Dual A-B power feed: 208-230 V
- Backward curved centrifugal fans incorporating EC technology
- Coolant flow control (included valve and actuator)



Monitoring

- Valve position (adjustable via cold air temperature)
- Fan speed (adjustable via hot air temperature)
- Return water temperature
- Fan-function display
- Local alarm display
- User-defined preventative maintenance alarms
- Alarm log
- SNMP and Modbus interface



*RackChiller In Row 600 mm wide

For further information please visit: ip.schroff.nvent.com/en/rackchiller-inrow

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