

# Hybrid High Density Precision Cooling



## SMART PRECISION COOLING



nVent and CoolIT have joined forces to create an enclosure for very high density computing environments. An nVent SCHROFF RackChiller Rear Door Cooler is combined with a CoolIT Direct Contact Liquid Cooling Distribution Unit to achieve new levels of rack-level cooling efficiency.

### FEATURES

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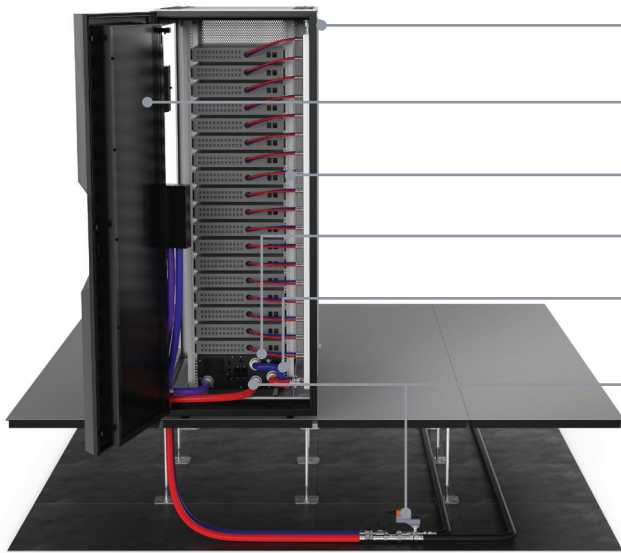
- Designed to remove 100% of the heat generated in very high density IT racks
- Combines the extreme heat removal of Direct Contact Liquid Cooling at the chip level with a Rear Door air-to-water heat exchanger for residual heat removal
- Uses a single facility water line
- Sophisticated, coordinated controls
- Warm water exiting the RackChiller Rear Door Cooler complements the input requirements of the CoolIT CHx80 Cooling Distribution Unit (CDU)
- High temperature return water increases efficiency and can be used for heat re-use

### BENEFITS

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- Reduce total energy consumed
- Utilize 100% of rack space and data center footprint
- Quick and easy installation and service
- Versatile infrastructure solutions and product combinations





- nVent SCHROFF Varistar Server Cabinet
- nVent Schroff RackChiller Rear Door Chilled Water Heat Exchanger
- CoolIT DCLC Rack Manifold
- CoolIT CHx80 Cooling Distribution Unit
- Integrated Liquid Pathway
- Sophisticated, coordinated controls - Integrated monitoring system (Webserver, Modbus, SNMP) and local display

**nVent SCHROFF RackChiller Rear Door - Air to Water Heat Exchanger**

- Manages up to 55kW heat load per rack
- Active solution with fans supporting the air flow and overcome pressure drop of the heat exchanger, with integrated differential pressure sensor
- Water control kit allows water flow regulation according the actual heat load
- Frame solution allows separation of coil and condensate management from the rack mount equipment
- Rear space inside the cabinet is completely available for cabling and power distribution
- Available in 600 mm and 800 mm width in 2,000 mm (42RU), 2,200 mm (47RU) and 2,450 mm (52RU) height

**CoolIT Cooling Distribution Unit for Direct Contact Liquid Cooling**

- Manages up to 80kW of processor load per network
- Compatible with ASHRAE W4 warm water cooling
- Redundant centralized pumps
- Dry-break quick disconnects
- 4U rack-mount chassis

For further information please visit: [ip.schroff.nvent.com/en/rackchiller-reardoor](http://ip.schroff.nvent.com/en/rackchiller-reardoor)

**North America**

**All locations**  
Tel: +1.763.422.2661

**Europe**

**Straubenhardt, Germany**  
Tel: +49.7082.794.0  
**Betschdorf, France**  
Tel: +33.3.88.90.64.90  
**Warsaw, Poland**  
Tel: +48.22.209.98.35  
**Assago, Italy**  
Tel: +39.02.5776151.224

**Middle East & India**

**Dubai, United Arabian Emirates**  
Tel: +971.4.37.81.700  
**Bangalore, India**  
Tel: +91.80.6715.2001  
**Istanbul, Turkey**  
Tel: +90.216.250.7374

**Asia**

**Shanghai, P.R. China**  
Tel: +86.21.2412.6943  
**Singapore**  
Tel: +65.6768.5800  
**Shin-Yokohama, Japan**  
Tel: +81.45.476.0271



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