

# RackChiller Rear Door

## SMART PRECISION COOLING



nVent SCHROFF RackChiller Rear Door Chilled Water Heat Exchanger is designed for managing high heat load cooling requirements within higher-density server, computing and storage racks. The entire system is integrated within an aesthetically framed perforated door with protective covers to isolate the liquid source and cooling loop from the rack-mounted equipment.

The RDC installs on equipment racks as a separate complete rear door, enabling it to be retrofitted to existing racks.

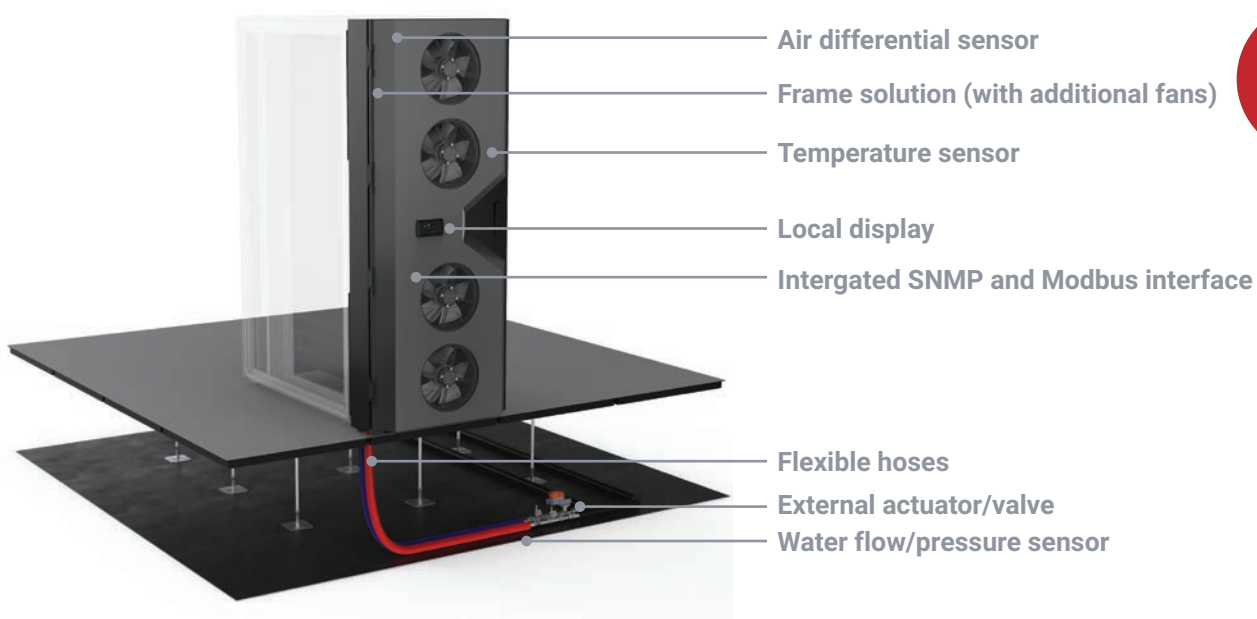
nVent SCHROFF Rear Door Chilled Water Heat Exchanger cools the warm exhaust air generated by the fans in the existing rack-mounted IT equipment through a large cooling coil surface before reintroducing back to the room.

### FEATURES

- Passive solution without fans - no noise, no additional power consumption, low maintenance requirements
- Active solution with fans supporting the air flow and minimize pressure drop of the heat exchanger
- Optional 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
- Easily adapts to nVent cabinets; retrofit kits available for third party cabinets

### BENEFITS

- Modular standard design - easy to adapt to your requirements
- Minimal planning outlay, short setup time
- Versatile infrastructure solutions and product combinations



- Air differential sensor
- Frame solution (with additional fans)
- Temperature sensor
- Local display
- Integrated SNMP and Modbus interface
- Flexible hoses
- External actuator/valve
- Water flow/pressure sensor

Cooling performance

15kW
35kW
55kW

Parameter		Operating point 1	Operating point 2	Operating point 3
$T_{water, in}$	[°C]	18	14	10
$T_{water, out}$	[°C]	22	20	20
$T_{air, in}$	[°C]	35	45	50
$T_{air, out}$	[°C]	22	23	25
$V'_{air}$ (projection)	[m <sup>3</sup> /h]	3462	4773	6600
$V'_{water}$ (projection)	[l/min]	60	77	77
$\Delta p_{air}$	[Pa]	9	16	28
$\Delta p_{water}$	[kPa]	52	84	85

For further information please visit: <https://lp.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 Arab Emirates**  
Tel: +971 (4) 823.8666  
**Bangalore, India**  
Tel: +91.080.67158900

**Asia**

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



Our powerful portfolio of brands:

**CADDY ERICO HOFFMAN ILSCO RAYCHEM SCHROFF**