WELCOME TO THE FUTURE OF CONNECTION AND PROTECTION

At nVent, we believe that safer systems ensure a more secure world. We connect and protect our customers with inventive electrical solutions.
TRUSTED DATACOM AND NETWORKING SOLUTIONS FOR A CONNECTED WORLD

Trust in nVent to secure mission critical data availability combined with optimized efficiency at minimal cost of ownership.

Experienced project support and proven product lines help our customer to achieve their goals.
OUR FLEXIBLE MODULAR PORTFOLIO, COMBINED WITH DESIGN AND PROJECT SUPPORT, ENABLES YOU TO SPECIFY AND DEPLOY YOUR PROJECT ON TIME TO ENSURE DATA AND NETWORK INFRASTRUCTURE AVAILABILITY AND PROTECTION
FROM THE EDGE TO THE CLOUD

trust in nVent to secure mission critical data availability combined with optimized efficiency at minimal cost of ownership.

CADDY
The nVent CADDY brand includes fixing, fastening, and support products for high performance cabling systems designed to save installation time.

ERICO
nVent ERICO offers full range of facility electrical protection products to protect data centers, network and other facilities.

HOFFMAN
nVent HOFFMAN offers broad range of targeted networking enclosures, racks and accessories for protecting sensitive electronic equipment.

RACHEM
TRACETEK a brand of RACHEM nVent includes sensing probes and cables for monitoring water and fuels to ensure availability.

SCHROFF
nVent SCHROFF brand offers modular and scalable server cabinets, aisle containment systems and active cooling solutions to perfectly fit customers’ data center requirements.
YOUR GLOBAL PARTNER

Americas
- 6 manufacturing locations
- +300 technical sales reps
- +3,000 distributor branches

Europe
- 3 manufacturing locations
- +100 technical sales reps
- +100 distributor branches

APAC
- 2 manufacturing locations
- +75 technical sales reps
- 100 distributor branches

I-MEA
- 1 manufacturing location
- +25 technical sales reps
- +50 distributor branches
Infrastructure Under Control

Precision Cooling

- Smart AIR TO WATER HEAT EXCHANGER
  - High density cooling
  - Minimal operation costs
  - Efficient regulation
CONTINUUM OF COOLING

<table>
<thead>
<tr>
<th>System Type</th>
<th>Power Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Server Rack</td>
<td>2-4 kW</td>
</tr>
<tr>
<td>Server Rack w/Fans</td>
<td>4-6 kW</td>
</tr>
<tr>
<td>Server Rack w/AC</td>
<td>6-8 kW</td>
</tr>
<tr>
<td>Row Aisle Containment (Passive)</td>
<td>8-12 kW</td>
</tr>
<tr>
<td>Row Aisle Containment (Active w/IRC)</td>
<td>12-15 kW</td>
</tr>
<tr>
<td>Direct to Chip Liquid Cooling</td>
<td>60 – 700+ kW</td>
</tr>
<tr>
<td>Rear Door (Passive/Active)</td>
<td>25 - 80 kW</td>
</tr>
<tr>
<td>In Row Cooling – LX/DX</td>
<td>30-70 kW per Cooler</td>
</tr>
<tr>
<td>Rack w/Integrated LX Cooling (MicroEdge)</td>
<td>15-25 kW</td>
</tr>
</tbody>
</table>

Complete offering
Precision Cooling

Aisle Containment System
- 3 different door options: swing door, manual and automatic sliding doors
- Design allows easy integration of third party cabinets
- Minimum air loss due to standard gaskets and panels

Precision Cooling

RackChiller IR - InRow
- Fully compatible with Varistar Containment System
- Scalable, networked cooling devices allow optimal management
- Water entry from top and bottom

RackChiller IN - InRack
- High packing density per rack with efficient temperature regulation
- 1, 2 or more closed-loop cabinet designs possible
- IP/EMC (EMI) shielded versions available

RackChiller RD - Rear Door Cooler
- Frame solution separates cooling from the rear inside of the rack
- Passive and Active configurations
- Attachable to third party racks

High Density Liquid Cooling
- Water to water and water to air heat exchangers.
  Cooling of more than 50kW per rack for super computing, AI and Big Data applications
WATER IN THE DATA CENTER

- Proofed technology
- Higher heat loads
- Increased efficiency
- Non environmental impact, Availability
- Heat carrying capacity

TO BE CONSIDERED

- Quality process during manufacturing
- Leak detection on pipe work
- Operating parameters
- Pipework on site
  - Shut off valve
  - Flow meter
Performance Considerations for Heat Exchangers

➢ How to reduce operating costs for equipment cooling?
  ✓ Reduce usage of expendable materials (filters, lube oil, ...)
  ✓ Decrease probability of component failure (fans, valves, electronics, ...)
  ✓ Minimize consumption and loss of transport media (water, air, refrigerant, ...)
  ✓ Optimize energy efficiency (pumps, fans, compressors, ...)

Consider working parameters and IT equipment – when specifying the most effective cooling solution is key
RackChiller In Row

- 300mm and 600mm widths

**FEATURES**

- Water connection from rear top and bottom, with flexible hoses
- Dual A-B power feed
- EC Fan Technology
- Monitoring over SNMP and Modbus TCP
- Highest air volume flow with radial fans at minimum noise and low power consumption
- Integrates with aisle containment
- Control with internal and external sensors possible
Work with experts to get the best fitting solution