

# RackChiller Rear Door Cooler, Obsolete

## Data Solutions



RackChiller Rear Door Cooler (RDC) Heat Exchanger is designed for managing high heat load cooling requirements within high-density server, computing and storage racks. The RDC installs on equipment racks as a separate rear door with an extra frame, enabling it to be retrofitted to existing racks. Heat dissipated by the rack equipment will be removed by the air-to-liquid heat exchanger and transferred into the facility water circuit, adding no heat to the IT room. Door-mounted fans support the IT equipment air flow to overcome the coil impedance. The integrated controller modulates the water flow to keep a constant supply air temperature, as well as the fan speed to maintaining a (configurable) pressure differential between rack and IT room. 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.

### FUNKTIONER

Active solution with fans supporting air flow and neutralizing the pressure drop at the heat exchanger

Frame solution separates coil and condensate management from the rack-mounted equipment

Rear space inside the cabinet is left available for power distribution and cable management

Easily adapts to nVent cabinets; contact nVent to request information for integrating with third party cabinets

Temperature sensors on air supply and return side

Integrated control system with Modbus TCP and SNMP v2c interface

Optional water flow, pressure and temperature sensors included with the water control package allow for water monitoring and regulation according to actual heat load

Optional local display

### YDERLIGERE PRODUKTOPLYSNINGER

For trouble-free operation it is recommended to use the water connection set and the optional accessories.

The cooling capacity is determined under the following conditions: delta p water: < 100 kPa; water flow temperature: 12 °C / 53.6 °F; outlet temperature 24 °C / 75.2 °F; water flow: 4.8 m³/h / 21.1 gal/min ; Airflow: Depending on cooling module, see Diagram Performance Map.

## ADVARSEL

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nVent-produkter skal kun installeres og anvendes som angivet i nVents produktvejledninger og træningsmaterialer. Vejledninger er tilgængelige på [www.nvent.com](http://www.nvent.com) og hos din nVent kundeservicerepræsentant. Forkert installation, misbrug, fejlanvendelse eller anden undladelse af fuldt ud at følge nVents instruktioner og advarsler kan medføre funktionsfejl, materielle skader, alvorlige personskader eller død og/eller ugyldiggøre din garanti.



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