

RackChiller Rear Door Cooler, Active



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.

CERTIFICATIONS



FEATURES

- 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

SPECIFICATIONS

Table 1/2

Catalog Number	Product Type	Product Family	Type	Width	Depth	Height
21130-811	Air/Liquid Heat Exchanger	RackChiller	Rear Door Cooler, Active	800mm	333mm	2450mm
21130-808	Air/Liquid Heat Exchanger	RackChiller	Rear Door Cooler, Active	600mm	333mm	2200mm
21130-809	Air/Liquid Heat Exchanger	RackChiller	Rear Door Cooler, Active	800mm	333mm	2200mm
21130-807	Air/Liquid Heat Exchanger	RackChiller	Rear Door Cooler, Active	800mm	333mm	2000mm
21130-810	Air/Liquid Heat Exchanger	RackChiller	Rear Door Cooler, Active	600mm	333mm	2450mm
21130-806	Air/Liquid Heat Exchanger	RackChiller	Rear Door Cooler, Active	600mm	333mm	2000mm

Table 2/2

Catalog Number	Finish	Material	Package Quantity	Quick Ship
21130-811	Powder Coated	Steel	1	No
21130-808	Powder Coated	Steel	1	No
21130-809	Powder Coated	Steel	1	No
21130-807	Powder Coated	Steel	1	No
21130-810	Powder Coated	Steel	1	No
21130-806	Powder Coated	Steel	1	No

ADDITIONAL PRODUCT DETAILS

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.

WARNING

nVent products shall be installed and used only as indicated in nVent's product instruction sheets and training materials. Instruction sheets are available at www.nvent.com and from your nVent customer service representative. Improper installation, misuse, misapplication or other failure to completely follow nVent's instructions and warnings may cause product malfunction, property damage, serious bodily injury and death and/or void your warranty.

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