

RackChiller Rear Door Cooler, Active

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.

CERTIFICERINGEN



KENMERKEN

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

SPECIFICATIES

Table 1/2						
Catalogusnummer	Producttype	Productserie	Type	Breedte	Diepte	Hoogte
21130-811	Lucht/vloeistof-warmtewisselaars	RackChiller	Koeler deur achterzijde, actief	800mm	333mm	2450mm
21130-808	Lucht/vloeistof-warmtewisselaars	RackChiller	Koeler deur achterzijde, actief	600mm	333mm	2200mm
21130-809	Lucht/vloeistof-warmtewisselaars	RackChiller	Koeler deur achterzijde, actief	800mm	333mm	2200mm
21130-807	Lucht/vloeistof-warmtewisselaars	RackChiller	Koeler deur achterzijde, actief	800mm	333mm	2000mm
21130-810	Lucht/vloeistof-warmtewisselaars	RackChiller	Koeler deur achterzijde, actief	600mm	333mm	2450mm
21130-806	Lucht/vloeistof-warmtewisselaars	RackChiller	Koeler deur achterzijde, actief	600mm	333mm	2000mm

Table 2/2			
Catalogusnummer	Afwerking	Materiaal	Hoeveelheid in verpakking
21130-811	Gepoedercoat	Staal	1
21130-808	Gepoedercoat	Staal	1
21130-809	Gepoedercoat	Staal	1
21130-807	Gepoedercoat	Staal	1
21130-810	Gepoedercoat	Staal	1
21130-806	Gepoedercoat	Staal	1

AANVULLENDE PRODUCTGEGEVENS

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.

WAARSCHUWING

nVent-producten moeten alleen worden geïnstalleerd en gebruikt zoals aangegeven in de instructiebladen en trainingsmateriaal van nVent. Instructiebladen zijn beschikbaar op www.nvent.com en bij uw nVent klantenservicevertegenwoordiger. Onjuiste installatie, misbruik, verkeerde toepassing of ander falen om de instructies en waarschuwingen van nVent volledig te volgen, kan leiden tot productstoringen, schade aan eigendommen, ernstig lichamelijk letsel en de dood en/of uw garantie ongeldig maken.



Ons krachtige merkenportfolio:

CADDY ERICO HOFFMAN ILSCO SCHROFF TRACHTE