

RackChiller RDHX PRO Active

Data Solutions



The new rear door cooling units from nVent are offered in a range of standard sizes for use with 42U, 47U, and 52U, in 600 mm, 750 mm, and 800 mm widths. The coolers themselves are 250mm deep, with a dry weight of 170Kg. One of the features of rear door coolers is they are compact and do not require any additional floor space or ceiling headroom – in fact, their use can free up white space as CRAH units and other room cooling equipment may be eliminated from the data centre.

Each unit features 12x axial brushless DC fans – more than any competitive unit. However, the large number of fans means they individually do less work than a smaller number of large fans, reducing stress on the electromechanical devices and increasing their lifecycle. In the event failures do occur, nVent has developed an innovative, tool-less and hot-swappable method for fan replacement as well as other critical components such as PSUs and main controller. This feature allows uptime to be maximized at the same time as reducing service callouts and associated costs.

The Rear door cooler can also be retrofitted to most third party racks.

Smallest footprint of any rear door cooler on the marketplace with the highest kilowatt capacity of cooling.

FEATURES

Rear Door Cooler Chilled Water

Hot-swappable components simplify repair and maximize availability

Designed for efficient operation at increased facility water temperatures

Combination with direct to chip liquid cooling

Modular standard - easy to adapt to individual requirements

Fans, power supplies, controller and control valve all are hot-swappable

Automatic fan speed and valve opening control

7" high resolution touch screen interface

Hydraulic and electric connection through top or bottom

Monitoring via Ethernet interface (Web browser, Modbus TCP, SNMP v2c) and Modbus RTU

SPECIFICATIONS

Table 1/2

Catalog Number	Product Type	Product Family	Type	Rack Height	Color Code	Protection Rating
10630-204	Air/Liquid Heat Exchanger	RackChiller	Hinged, Right	42U	RAL 7021	IP20
10630-205	Air/Liquid Heat Exchanger	RackChiller	Hinged, Right	42U	RAL 7021	IP20
10630-206	Air/Liquid Heat Exchanger	RackChiller	Hinged, Right	47U	RAL 7021	IP20
10630-207	Air/Liquid Heat Exchanger	RackChiller	Hinged, Right	47U	RAL 7021	IP20
RXA20060B	Air/Liquid Heat Exchanger	RackChiller	Hinged, Left	42U	RAL 9005	IP20
RXA20060W	Air/Liquid Heat Exchanger	RackChiller	Hinged, Left	42U	RAL 9003	IP20
RXA20075B	Air/Liquid Heat Exchanger	RackChiller	Hinged, Left	42U	RAL 9005	IP20
RXA20075W	Air/Liquid Heat Exchanger	RackChiller	Hinged, Left	42U	RAL 9003	IP20
RXA20080B	Air/Liquid Heat Exchanger	RackChiller	Hinged, Left	42U	RAL 9005	IP20
RXA20080W	Air/Liquid Heat Exchanger	RackChiller	Hinged, Left	42U	RAL 9003	IP20
RXA22060B	Air/Liquid Heat Exchanger	RackChiller	Hinged, Left	47U	RAL 9005	IP20
RXA22060W	Air/Liquid Heat Exchanger	RackChiller	Hinged, Left	47U	RAL 9003	IP20
RXA22075B	Air/Liquid Heat Exchanger	RackChiller	Hinged, Left	47U	RAL 9005	IP20
RXA22075W	Air/Liquid Heat Exchanger	RackChiller	Hinged, Left	47U	RAL 9003	IP20
RXA22080B	Air/Liquid Heat Exchanger	RackChiller	Hinged, Left	47U	RAL 9005	IP20
RXA22080W	Air/Liquid Heat Exchanger	RackChiller	Hinged, Left	47U	RAL 9003	IP20
RXA22560B	Air/Liquid Heat Exchanger	RackChiller	Hinged, Left	48U	RAL 9005	IP20
RXA22560W	Air/Liquid Heat Exchanger	RackChiller	Hinged, Left	48U	RAL 9003	IP20

Catalog Number	Product Type	ProductFamily	Type	RackHeight	ColorCode	ProtectionRating
RXA22575B	Air/Liquid Heat Exchanger	RackChiller	Hinged, Left	48U	RAL 9005	IP20
RXA22575W	Air/Liquid Heat Exchanger	RackChiller	Hinged, Left	48U	RAL 9003	IP20

Table 2/2

Catalog Number	Product Type	Product Family	Type	Rack Height	Color Code	Protection Rating
RXA22580B	Air/Liquid Heat Exchanger	RackChiller	Hinged, Left	48U	RAL 9005	IP20
RXA22580W	Air/Liquid Heat Exchanger	RackChiller	Hinged, Left	48U	RAL 9003	IP20
RXA24560B	Air/Liquid Heat Exchanger	RackChiller	Hinged, Left	52U	RAL 9005	IP20
RXA24560W	Air/Liquid Heat Exchanger	RackChiller	Hinged, Left	52U	RAL 9003	IP20
RXA24575B	Air/Liquid Heat Exchanger	RackChiller	Hinged, Left	52U	RAL 9005	IP20
RXA24575W	Air/Liquid Heat Exchanger	RackChiller	Hinged, Left	52U	RAL 9003	IP20
RXA24580B	Air/Liquid Heat Exchanger	RackChiller	Hinged, Left	52U	RAL 9005	IP20
RXA24580W	Air/Liquid Heat Exchanger	RackChiller	Hinged, Left	52U	RAL 9003	IP20

Table 1/2

Catalog Number	Supply Voltage	Coolant Feed	Color	Depth	Finish	Height
10630-204	195 – 277V	Bottom, Top			Powder Coated	
10630-205	195 – 277V	Bottom, Top			Powder Coated	
10630-206	195 – 277V	Bottom, Top			Powder Coated	
10630-207	195 – 277V	Bottom, Top			Powder Coated	
RXA20060B	195 – 277V	Bottom, Top	Black Grey	11.02in	Powder Coated	78.7in
RXA20060W	195 – 277V	Bottom, Top	White	11.02in	Powder Coated	78.7in
RXA20075B	195 – 277V	Bottom, Top	Black Grey	11.02in	Powder Coated	78.7in
RXA20075W	195 – 277V	Bottom, Top	White	11.02in	Powder Coated	78.7in
RXA20080B	195 – 277V	Bottom, Top	Black Grey	11.02in	Powder Coated	78.7in
RXA20080W	195 – 277V	Bottom, Top	White	11.02in	Powder Coated	78.7in
RXA22060B	195 – 277V	Bottom, Top	Black Grey	11.02in	Powder Coated	86.6in
RXA22060W	195 – 277V	Bottom, Top	White	11.02in	Powder Coated	86.6in
RXA22075B	195 – 277V	Bottom, Top	Black Grey	11.02in	Powder Coated	86.6in

Catalog Number	Supply Voltage	Coolant Feed	Color	Depth	Finish	Height
RXA22075W	195 – 277V	Bottom, Top	White	11.02in	Powder Coated	86.6in
RXA22080B	195 – 277V	Bottom, Top	Black Grey	11.02in	Powder Coated	86.6in
RXA22080W	195 – 277V	Bottom, Top	White	11.02in	Powder Coated	86.6in
RXA22560B	195 – 277V	Bottom, Top	Black Grey	11.02in	Powder Coated	88.6in
RXA22560W	195 – 277V	Bottom, Top	White	11.02in	Powder Coated	88.6in
RXA22575B	195 – 277V	Bottom, Top	Black Grey	11.02in	Powder Coated	88.6in
RXA22575W	195 – 277V	Bottom, Top	White	11.02in	Powder Coated	88.6in

Table 2/2

Catalog Number	Supply Voltage	Coolant Feed	Color	Depth	Finish	Height
RXA22580B	195 – 277V	Bottom, Top	Black Grey	11.02in	Powder Coated	88.6in
RXA22580W	195 – 277V	Bottom, Top	White	11.02in	Powder Coated	88.6in
RXA24560B	195 – 277V	Bottom, Top	Black	11.02in	Powder Coated	96.5in
RXA24560W	195 – 277V	Bottom, Top	White	11.02in	Powder Coated	96.5in
RXA24575B	195 – 277V	Bottom, Top	Black	11.02in	Powder Coated	96.5in
RXA24575W	195 – 277V	Bottom, Top	White	11.02in	Powder Coated	96.5in
RXA24580B	195 – 277V	Bottom, Top	Black	11.02in	Powder Coated	96.5in
RXA24580W	195 – 277V	Bottom, Top	White	11.02in	Powder Coated	96.5in

Table 1/2

Catalog Number	Material	Package Quantity	Width
10630-204	Steel	1	
10630-205	Steel	1	
10630-206	Steel	1	
10630-207	Steel	1	
RXA20060B	Steel	1	23.6in
RXA20060W	Steel	1	23.6in
RXA20075B	Steel	1	29.5in
RXA20075W	Steel	1	29.5in
RXA20080B	Steel	1	31.5in
RXA20080W	Steel	1	31.5in
RXA22060B	Steel	1	23.6in
RXA22060W	Steel	1	23.6in
RXA22075B	Steel	1	29.5in
RXA22075W	Steel	1	29.5in
RXA22080B	Steel	1	31.5in

Catalog Number	Material	Package Quantity	Width
RXA22080W	Steel	1	31.5in
RXA22560B	Steel	1	23.6in
RXA22560W	Steel	1	23.6in
RXA22575B	Steel	1	29.5in
RXA22575W	Steel	1	29.5in

Table 2/2

Catalog Number	Material	Package Quantity	Width
RXA22580B	Steel	1	31.5in
RXA22580W	Steel	1	31.5in
RXA24560B	Steel	1	23.6in
RXA24560W	Steel	1	23.6in
RXA24575B	Steel	1	29.5in
RXA24575W	Steel	1	29.5in
RXA24580B	Steel	1	31.5in
RXA24580W	Steel	1	31.5in

ADDITIONAL PRODUCT DETAILS

For trouble-free operation of the air/liquid heat exchanger the quality requirements of the coolant must be maintained; The selection of appropriate anti-corrosion and frost protection agents depends on the environment in which the unit is used and on the external chiller.

The RDHX Pro range must be operated with supply liquid at 2°C above dew point. If this cannot be achieved, then a CDU should be used as an intermediary.

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.

