

RackChiller RDHX PRO Passive

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 140Kg. 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.

RDHX PRO Passive is fanless device than can be upgraded to Active with the addition of the fan modules. Meaning you can scale your data center to the requirements of your server racks. With no fans, the power consumption is near zero. This also reduces the service and maintenance costs with minimal components.

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

Can be upgraded to active even after installation and commissioning

Power supplies, controller and control valve all are hot-swappable

Automatic 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	Rack Height	Type	Color Code	Protection Rating
10630-212	Air/Liquid Heat Exchanger	RackChiller	42U	Hinged, Right	RAL 7021	IP20
10630-213	Air/Liquid Heat Exchanger	RackChiller	42U	Hinged, Right	RAL 7021	IP20
10630-214	Air/Liquid Heat Exchanger	RackChiller	47U	Hinged, Right	RAL 7021	IP20
10630-215	Air/Liquid Heat Exchanger	RackChiller	47U	Hinged, Right	RAL 7021	IP20
RXP20060B	Air/Liquid Heat Exchanger	RackChiller	42U	Hinged, Left	RAL 9005	IP20
RXP20060W	Air/Liquid Heat Exchanger	RackChiller	42U	Hinged, Left	RAL 9003	IP20
RXP20075B	Air/Liquid Heat Exchanger	RackChiller	42U	Hinged, Left	RAL 9005	IP20
RXP20075W	Air/Liquid Heat Exchanger	RackChiller	42U	Hinged, Left	RAL 9003	IP20
RXP20080B	Air/Liquid Heat Exchanger	RackChiller	42U	Hinged, Left	RAL 9005	IP20
RXP20080W	Air/Liquid Heat Exchanger	RackChiller	42U	Hinged, Left	RAL 9003	IP20
RXP22060B	Air/Liquid Heat Exchanger	RackChiller	47U	Hinged, Left	RAL 9005	IP20
RXP22060W	Air/Liquid Heat Exchanger	RackChiller	47U	Hinged, Left	RAL 9003	IP20
RXP22075B	Air/Liquid Heat Exchanger	RackChiller	47U	Hinged, Left	RAL 9005	IP20
RXP22075W	Air/Liquid Heat Exchanger	RackChiller	47U	Hinged, Left	RAL 9003	IP20
RXP22080B	Air/Liquid Heat Exchanger	RackChiller	47U	Hinged, Left	RAL 9005	IP20
RXP22080W	Air/Liquid Heat Exchanger	RackChiller	47U	Hinged, Left	RAL 9003	IP20
RXP22560B	Air/Liquid Heat Exchanger	RackChiller	48U	Hinged, Left	RAL 9005	IP20
RXP22560W	Air/Liquid Heat Exchanger	RackChiller	48U	Hinged, Left	RAL 9003	IP20

Catalog Number	Product Type	ProductFamily	RackHeight	Type	ColorCode	ProtectionRating
RXP22575B	Air/Liquid Heat Exchanger	RackChiller	48U	Hinged, Left	RAL 9005	IP20
RXP22575W	Air/Liquid Heat Exchanger	RackChiller	48U	Hinged, Left	RAL 9003	IP20

Table 2/2

Catalog Number	Product Type	Product Family	Rack Height	Type	Color Code	Protection Rating
RXP22580B	Air/Liquid Heat Exchanger	RackChiller	48U	Hinged, Left	RAL 9005	IP20
RXP22580W	Air/Liquid Heat Exchanger	RackChiller	48U	Hinged, Left	RAL 9003	IP20
RXP24560B	Air/Liquid Heat Exchanger	RackChiller	52U	Hinged, Left	RAL 9005	IP20
RXP24560W	Air/Liquid Heat Exchanger	RackChiller	52U	Hinged, Left	RAL 9003	IP20
RXP24575B	Air/Liquid Heat Exchanger	RackChiller	52U	Hinged, Left	RAL 9005	IP20
RXP24575W	Air/Liquid Heat Exchanger	RackChiller	52U	Hinged, Left	RAL 9003	IP20
RXP24580B	Air/Liquid Heat Exchanger	RackChiller	52U	Hinged, Left	RAL 9005	IP20
RXP24580W	Air/Liquid Heat Exchanger	RackChiller	52U	Hinged, Left	RAL 9003	IP20

Table 1/2

Catalog Number	Width	Depth	Height	Supply Voltage	Coolant Feed	Finish
10630-212	600mm	280mm	2000mm	195 – 277V	Bottom, Top	Powder Coated
10630-213	800mm	280mm	2000mm	195 – 277V	Bottom, Top	Powder Coated
10630-214	600mm	280mm	2200mm	195 – 277V	Bottom, Top	Powder Coated
10630-215	800mm	280mm	2200mm	195 – 277V	Bottom, Top	Powder Coated
RXP20060B	600mm	280mm	2000mm	195 – 277V	Bottom, Top	Powder Coated
RXP20060W	600mm	280mm	2000mm	195 – 277V	Bottom, Top	Powder Coated
RXP20075B	750mm	280mm	2000mm	195 – 277V	Bottom, Top	Powder Coated
RXP20075W	750mm	280mm	2000mm	195 – 277V	Bottom, Top	Powder Coated
RXP20080B	800mm	280mm	2000mm	195 – 277V	Bottom, Top	Powder Coated
RXP20080W	800mm	280mm	2000mm	195 – 277V	Bottom, Top	Powder Coated
RXP22060B	600mm	280mm	2200mm	195 – 277V	Bottom, Top	Powder Coated
RXP22060W	600mm	280mm	2200mm	195 – 277V	Bottom, Top	Powder Coated
RXP22075B	750mm	280mm	2200mm	195 – 277V	Bottom, Top	Powder Coated

Catalog Number	Width	Depth	Height	Supply Voltage	Coolant Feed	Finish
RXP22075W	750mm	280mm	2200mm	195 – 277V	Bottom, Top	Powder Coated
RXP22080B	800mm	280mm	2200mm	195 – 277V	Bottom, Top	Powder Coated
RXP22080W	800mm	280mm	2200mm	195 – 277V	Bottom, Top	Powder Coated
RXP22560B	600mm	280mm	2250mm	195 – 277V	Bottom, Top	Powder Coated
RXP22560W	600mm	280mm	2250mm	195 – 277V	Bottom, Top	Powder Coated
RXP22575B	750mm	280mm	2250mm	195 – 277V	Bottom, Top	Powder Coated
RXP22575W	750mm	280mm	2250mm	195 – 277V	Bottom, Top	Powder Coated

Table 2/2

Catalog Number	Width	Depth	Height	Supply Voltage	Coolant Feed	Finish
RXP22580B	800mm	280mm	2250mm	195 – 277V	Bottom, Top	Powder Coated
RXP22580W	800mm	280mm	2250mm	195 – 277V	Bottom, Top	Powder Coated
RXP24560B	600mm	280mm	2450mm	195 – 277V	Bottom, Top	Powder Coated
RXP24560W	600mm	280mm	2450mm	195 – 277V	Bottom, Top	Powder Coated
RXP24575B	750mm	280mm	2450mm	195 – 277V	Bottom, Top	Powder Coated
RXP24575W	750mm	280mm	2450mm	195 – 277V	Bottom, Top	Powder Coated
RXP24580B	800mm	280mm	2450mm	195 – 277V	Bottom, Top	Powder Coated
RXP24580W	800mm	280mm	2450mm	195 – 277V	Bottom, Top	Powder Coated

Table 1/2

Catalog Number	Material	Package Quantity
10630-212	Steel	1
10630-213	Steel	1
10630-214	Steel	1
10630-215	Steel	1
RXP20060B	Steel	1
RXP20060W	Steel	1
RXP20075B	Steel	1
RXP20075W	Steel	1
RXP20080B	Steel	1
RXP20080W	Steel	1
RXP22060B	Steel	1
RXP22060W	Steel	1
RXP22075B	Steel	1
RXP22075W	Steel	1
RXP22080B	Steel	1

Catalog Number	Material	Package Quantity
RXP22080W	Steel	1
RXP22560B	Steel	1
RXP22560W	Steel	1
RXP22575B	Steel	1
RXP22575W	Steel	1

Table 2/2

Catalog Number	Material	Package Quantity
RXP22580B	Steel	1
RXP22580W	Steel	1
RXP24560B	Steel	1
RXP24560W	Steel	1
RXP24575B	Steel	1
RXP24575W	Steel	1
RXP24580B	Steel	1
RXP24580W	Steel	1

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.

