

# 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](http://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.

