

# RackChiller In-Row 45

## Data Solutions



RackChiller In-Row Coolers (IRC) are designed to deliver localized/supplemental energy efficient cooling in data centers. The RackChiller In-Row 45 air-to liquid cooler is a modular and scalable precision cooling solution that can replace or supplement traditional data center cooling infrastructure. The units can be scaled optimally to suit individual packaging density and redundancy requirements.

The cooling system is integrated into a Varistar CP mobile frame for ideal side by side connection to Varistar CP or third party racks. The cooler comes with perforated front and rear doors. This allows seamless integration into rows of racks with hot or cold aisle containment. The integrated fans move the warm exhaust air from the hot aisle through an air to water heat exchanger where the heat is transferred to a water circuit. The air is then provided into the cold aisle towards the equipment.

### FEATURES

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In-Row air/liquid cooler, ideal for hot aisle containment

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.

Minimum changes between In-Row and LHX+ (In-Rack) design - simplifies planning, layout and specification

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

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Table 1/2

| Catalog Number | Product Type              | Product Family | Width | Depth  | Height | Supply Voltage |
|----------------|---------------------------|----------------|-------|--------|--------|----------------|
| 10630-102      | Air/Liquid Heat Exchanger | RackChiller    | 300mm | 1000mm | 2000mm | 200 – 240V     |
| 10630-103      | Air/Liquid Heat Exchanger | RackChiller    | 300mm | 1200mm | 2000mm | 200 – 240V     |

Table 2/2

| Catalog Number | Coolant Feed | Finish        | Material | Package Quantity | Protection Rating | Rack Height |
|----------------|--------------|---------------|----------|------------------|-------------------|-------------|
| 10630-102      | Top          | Powder Coated | Steel    | 1                | IP20              | 42U         |
| 10630-103      | Top, Bottom  | Powder Coated | Steel    | 1                | IP20              | 42U         |

## 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

At coolant temperatures below 14 °C, there is an increased risk of condensation. We recommend using a condensate management package

## 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.



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