

# Varistar LHX+ 45 In-Rack



Varistar LHX+ In-Rack coolers are designed to deliver localized energy efficient cooling to the equipment in installations where the ambient air is not filtered or temperature controlled. The device is IP54 and connects to attached Varistar CP cabinet into a sealed combo so no air is exchanged with the room.

The cooling system is integrated into a Varistar CP mobile frame for ideal side by side connection to Varistar CP racks. The cooler comes with solid front and rear doors. It incorporates a cold air plenum in the front and warm air plenum in the rear. The integrated fans move the warm exhaust air from the warm air plenum through an air to water heat exchanger where the heat is transferred to a water circuit. The air is then provided into the cold air plenum towards the equipment.

## FEATURES

In-row air/liquid cooler optimized for cooling of closed racks

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

Table 1/2

| Catalog Number | Product Type              | Product Family | Supply Voltage | Coolant Feed | Finish        | Material |
|----------------|---------------------------|----------------|----------------|--------------|---------------|----------|
| 10630-101      | Air/Liquid Heat Exchanger | Varistar       | 200 – 240V     | Top, Bottom  | Powder Coated | Steel    |

| CatalogNumber | Product Type              | Product Family | Supply Voltage | Coolant Feed | Finish        | Material |
|---------------|---------------------------|----------------|----------------|--------------|---------------|----------|
| 10630-100     | Air/Liquid Heat Exchanger | Varistar       | 200 – 240V     | Top, Bottom  | Powder Coated | Steel    |

Table 2/2

| Catalog Number | Package Quantity | Protection Rating | Rack Height | Quick Ship |
|----------------|------------------|-------------------|-------------|------------|
| 10630-101      | 1                | IP55              | 42U         | No         |
| 10630-100      | 1                | IP55              | 42U         | No         |

## 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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