iXora HRM-4

Modular immersion rack mount system for four cassettes.
The HRM-4 is the world's first system offering immersion cooling as a flexible rack mountable solution for existing data center environments.

Achieving a power usage effectiveness (PUE) of less than 1.04 it helps reducing data center power needs, cutting energy costs up to 50%, while at the same time realizing a stable, yet compact and future proof power density of up to 4kW per cassette, 16kW per chassis.

Closed cassettes making life easy
While most current immersion systems offer an open 'bathtub', where the hardware is placed in a tank of liquid, the iXora HRM-4 solution consists of closed cassettes containing the compute, heat exchanger and the dielectric liquid. This way it is easy to perform maintenance in a work area instead of having to take out the compute on the data floor, causing spots of spilled liquid that may result in dangerous, slippery situations. The closed cassette communicates via the HRM supervisor board about its health and temperature conditions, guaranteeing optimal operating conditions for the CPU's.

Rack mountable immersion cooling chassis for datacenters
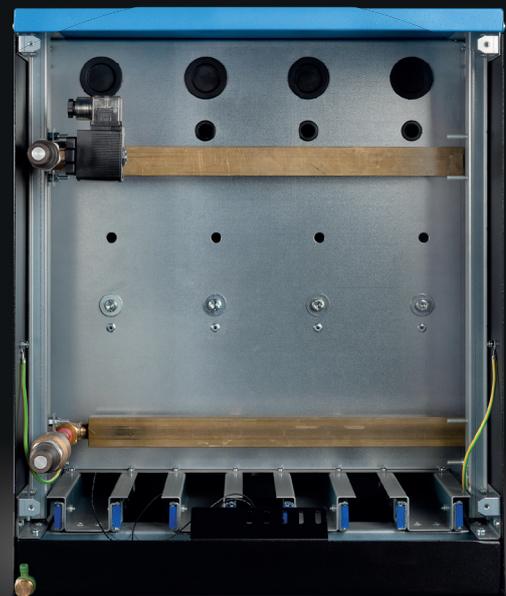
www.ixora.eu

Technical Specifications

- Dimensions (L x W x H) 1090mm x 19" x 12U
- Weight ~170kg / 375lbs
- Cooling capacity 4kW per cassette, 16kW per chassis
- Number of cassettes 4 cassettes per chassis
- Type cassettes Closed, heat exchanger enclosed
- Compute format E-ATX boards
- Temperature inlet Up to 40°C / 104°F
- Temperature outlet Up to 60°C / 140°F
- PUE <1.04
- Power saving vs air cooling Up to 50%

Cooling Liquid

Circulation method Natural convection, no pumps

Liquid manufacturer Compuzol IM2020

Live time liquid ~10 years

Facility requirements

Data center rack (L x W) Minimal 1200mm x 600mm

Rack weight capacity (3 chassis) ~510kg/1.124lbs

Cooling loop requirements Minimal 1.57bar/22.8psi Optimal 2.0bar/29.0psi Maximal 5.0bar/72.5psi

Features

Mounted in existing 19" rack

Connect to existing heat grid

Easy to install

Individual cassettes

No liquid spilling on the floor

Rack mountable immersion cooling chassis for datacenters

www.ixora.eu