

# Rear Door Heat Exchangers (RDHx's) – RDHWx

Energy and space efficient cooling for Datacenter applications



**Features:**

- ) Designed to fit any rack 600mm, 735mm, 800mm x 42-45U high
- ) Passive 4 row coil designs ( up to 35kW)
- ) Relatively high water temperature maximises free cooling potential
- ) Slim design takes up minimal floor space
- ) Top and bottom swappable ¾" connections for flexibility
- ) Heat Exchanger performance maximised at low water flow requirements
- ) Low Pressure Drop air side (12Pa @ 3,000m<sup>3</sup>/hr)
- ) Low Pressure Drop water side (24kPa @ 25 lpm)
- ) Low water volume, vent and drain capability
- ) Easy to install, pipe connection options including "Quick Disconnects"
- ) Robust, welded and painted construction for excellent rigidity
- ) No electrical requirements

**RDHWxS and RDHWxY Specification:**

Rear Door Heat Exchanger Model Number	RDHWxS	RDHWxY
RDHx Design Type	4 Row Coil	4 Row Coil
Nominal Cooling Capacity	20kW	30kW
Nominal Airflow (provided by rack equipment)	3,400m <sup>3</sup> /hr (2000 CFM)	6100m <sup>3</sup> /hr (3600 CFM)
Airside Pressure Drop at Nominal Airflow	20 Pa	40 Pa
Nominal Water Flow	45 lpm (12 GPM)	45 lpm (12GPM)
Waterside Pressure Drop at Nominal Cooling Capacity	68 kPa	68 kPa
Water Temp at Nominal Cooling Capacity	18 Deg C	14 Deg C
Entering RDHx Temp at Nominal Cooling Capacity	42 Deg C	42 Deg C
Coolant Type	Water	Water
Coolant Volume	10.5 L (2.8 Gal)	10.5 L (2.8 Gal)
Pressure Rating	690kPa (100 psi)	690kPa (100 psi)
Power Consumption at Nominal Airflow	0 W	0 W
Water Connections	¾" Top or Bottom	¾" Top or Bottom
Coil Construction	Cu Tube Al Fins	Cu Tube Al Fins
Dimensions Including Adaptor Frame (H x W x D) mm	2000 x 600 x 120	2000 x 800 x 120
Weight Empty (Filled)	43 kg (53kg)	52 kg (63kg)
Air Vents and Drain Valves	Top and Bottom	Top and Bottom

