

# Rear Door Heat Exchangers (RDHx's) – Ultra High Density

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 or bottom 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

### RDUWxS, RDUWxW, and RDUWxY Specification:

RDHx Model Number	RDUWxS	RDUWxW	RDUWxY
RDHx Design Type	4 Row Coil	4 Row Coil	4 Row Coil
Nominal Cooling Capacity	22kW	26kW	33kW
Nominal Airflow (provided by rack equipment)	3,400m <sup>3</sup> /hr (2000 CFM)	4,500m <sup>3</sup> /hr (2600 CFM)	6100m <sup>3</sup> /hr (3600 CFM)
Airside Pressure Drop**	20 Pa	20 Pa	40 Pa
Nominal Water Flow	45 lpm (12 GPM)	45 lpm (12 GPM)	45 lpm (12GPM)
Waterside Pressure Drop***	27 kPa	30 kPa	30 kPa
Water Temp*	18 Deg C	18 Deg C	18 Deg C
Entering RDHx Temp**	42 Deg C	42 Deg C	42 Deg C
Coolant Type	Water	Water	Water
Coolant Volume	10.5 L (2.8 Gal)	11 L (2.9 Gal)	11 L (2.9 Gal)
Pressure Rating	690kPa (100 psi)	690kPa (100 psi)	690kPa (100 psi)
Power Consumption	0 W	0 W	0 W
Water Connections	¾" Top or Bottom (horizontal)	¾" Top or Bottom (horizontal)	¾" Top or Bottom (horizontal)
Coil Construction	Cu Tube Al Fins	Cu Tube Al Fins	Cu Tube Al Fins
Dimensions excluding Adaptor Frame (H x W x D) mm	2000 x 600 x 120	2000 x 735 x 120	2000 x 800 x 120
Weight Empty (Filled)	55 kg (65kg)	65kg (75kg)	67 kg (77kg)
Air Vents and Drain Valves	Top and Bottom	Top and Bottom	Top and Bottom

\*\* All data provided at nominal values

\*\*\* Excludes Quick Disconnects

