

Technical Comparison
Coolcentric RDHx Portfolio
rev 5/2018



MODEL NUMBER	Coolcentric Active RDHx RDHA035x	Coolcentric Ultra High Density RDUHWxxx	Coolcentric High Density RDHWxxx	Coolcentric Standard RDHx RD2Wxx	Coolcentric Low Density RDHx RDLWxx
ENVIRONMENTAL					
Nominal Cooling Capacity					
Rack Size 600 mm wide x 42/44U	35 kW	22kW	24kW	10kW	6kW
Rack Size 800 mm wide x 42/44U	Not Available in 800 mm width	33kW	31kW	22kW	Not Available in 800 mm width
Coolant Type	Chilled Water	Chilled Water	Chilled Water	Chilled Water	Chilled Water
Coolant Volume	2.2 Gal (8.3L)	2.8 Gal (10.5L)	2.8 Gal (10.5L)	1.5 Gal (5.7L)	1 Gal (4L)
Coolant Flow Rate	up to 10 GPM (40 L/min)	up to 15 GPM (57 L/min)	up to 15 GPM (57 L/min)	up to 12 GPM (45 L/min)	up to 12 GPM (45 L/min)
Minimum Coolant Inlet Temperature	Above Dew Point	Above Dew Point	Above Dew Point	Above Dew Point	Above Dew Point
Dew point control	provided by secondary loop	provided by secondary loop	provided by secondary loop	provided by secondary loop	provided by secondary loop
Maximum Operating Pressure	100 psi (690 kPa)	100 psi (690 kPa)	100 psi (690 kPa)	100 psi (690 kPa)	100 psi (690 kPa)
Air Side Pressure Drop (600mm x 42U)	0.19 inH2O @ 3178 CFM	0.09 inH2O @ 2000 CFM	0.08 inH2O @ 2000 CFM	0.04 inH2O @ 1200 CFM	0.03 inH2O @ 1000 CFM
Liquid Side Pressure Drop **	7.2 psi (50kPa) @ 10 GPM (40 L/min)	4.3 psi (30kPa) @ 12 GPM (45 L/min)	4.3 psi (30kPa) @ 12 GPM (45 L/min)	2 psi (14kPa) @ 12 GPM (45 L/min)	1.5 psi (10kPa) @ 12 GPM (45 L/min)
Coil Construction	Copper Tube and Aluminum Fin	Copper Tube and Aluminum Fin	Copper Tube and Aluminum Fin	Copper Tube and Aluminum Fin	Copper Tube and Aluminum Fin
Connection Type/Size	3/4" Quick Connects, ISO 7241-1 B	3/4" Quick Connects, ISO 7241-1 B	3/4" Quick Connects, ISO 7241-1 B	3/4" Quick Connects, ISO 7241-1 B	3/4" Quick Connects, ISO 7241-1 B
Connection Material	Brass	303 Stainless Steel	303 Stainless Steel	Brass	Brass
Connection Location	Top or Bottom Feed, Vertical	Top or Bottom Feed, Horizontal	Top or Bottom Feed, Horizontal	Top or Bottom Feed, Vertical	Top or Bottom Feed, Vertical
Secondary pipework	Flexible EDPM Hose or Copper Manifolds	Flexible EDPM Hose or Copper Manifolds	Flexible EDPM Hose or Copper Manifolds	Flexible EDPM Hose or Copper Manifolds	Flexible EDPM Hose or Copper Manifolds
Number of Fans Used	4	None	None	None	None
Air Flow	5400m3/hr	provided by server fans	provided by server fans	provided by server fans	provided by server fans
Noise Level	68 dBA	0 dBA	0 dBA	0 dBA	0 dBA
Condensate Pump/Drain	None required	None required	None required	None required	None required
Web-Based Management	provided with LiquiCool CDU	provided with LiquiCool CDU	provided with LiquiCool CDU	provided with LiquiCool CDU	provided with LiquiCool CDU
Infrastructure Requirements	Dedicated chiller or CDU with Building Chilled Water	Dedicated chiller or CDU with Building Chilled Water	Dedicated chiller or CDU with Building Chilled Water	Dedicated chiller or CDU with Building Chilled Water	Dedicated chiller or CDU with Building Chilled Water
ELECTRICAL					
Power Supply	110/230v 50/60Hz	None required	None required	None required	None required
Fan Power Consumption	324W	None	None	None	None
Number of Electrical Feeds required	One	None required	None required	None required	None required
Power Redundancy	ATS Optional	None required	None required	None required	None required
PHYSICAL					
Dimensions: 44/42U x 600mm Model	1945 mm H x 600 mm W x 200 mm D 76.6" H x 23.6" W x 7.8" D	1945 mm H x 600 mm W x 117 mm D 76.6" H x 23.6" W x 4.7" D	1945 mm H x 600 mm W x 117 mm D 76.6" H x 23.6" W x 4.7" D	1945 mm H x 600 mm W x 117 mm D 76.6" H x 23.6" W x 4.6" D	1945 mm H x 600 mm W x 70 mm D 76.6" H x 23.6" W x 2.8" D
Rack Space Consumed	None	None	None	None	None
Weight (Empty)	165 lbs (75 kg)	114 lbs (52 kg)	110 lbs (50 kg)	55 lbs (25 kg)	44 lbs (20 kg)
Weight (Full)	187 lbs (85 kg)	143 lbs (65 kg)	138 lbs (63 kg)	77 lbs (35 kg)	53 lbs (24 kg)
Connections	Water Supply/Return	Water Supply/Return	Water Supply/Return	Water Supply/Return	Water Supply/Return
Compatible Enclosures	Wide range of Manufacturers, Enclosure models and Sizes	Wide range of Manufacturers, Enclosure models and Sizes	Wide range of Manufacturers, Enclosure models and Sizes	Wide range of Manufacturers, Enclosure models and Sizes	Wide range of Manufacturers, Enclosure models and Sizes
MISCELLANEOUS					
Limited Warranty	1 Years, Parts Only	3 Years, Parts Only	3 Years, Parts Only	3 Years, Parts Only	3 Years, Parts Only

Notes:

* Cooling capacities listed are for 85% and 100% neutralization of heat load using ASHRAE recommended conditions:

Air entering rack at 27 (81), 40% RH and 100 CFM/kW, with water entering RDHx at 15 (59) [2 above dew point] and maximum coolant flow rate

** Excludes Quick Disconnects