

RFB3201-2025-SITA BETA : DATA HALL CRAH UNITS



Project: SITA BETA
Specification: DATA HALL CRAH UNITS
Date: 2026/02/06
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Note (1): Bidder must complete/enter YELLOW cells only

Note (2): SITA reserves the right to verify Data Sheet information

Item	Description	Required/specified
General	Unit Type	CRAH
	Area Served	Data Halls and UPS Room
	Aiflow Configuration	Downflow Fans in the raised floor/ underfloor fans
	Fans Mounting	Separate Housing configuration
	Airflow Efficiency Ratio (AER)	≤12
	Panelling	Full Body Double Panel
	Controller Make and Model with I/O Expansion Module	CAREL pCO5+ Large and One I/O Module with 16 configurable channels or similar open source
	Controller Communication Protocol	Ethernet/IP, PROFINET & Modbus TCP/SNMP
	Mounting Surface	Galvanised and Painted Steel Raised Floor Stand
	Raised Floor Height	1200mm
	Filters Dry media filter mass arrestance (EN 779)	G4
Electrical	Voltage / phase / frequency	400V/3ph/50Hz
	Power factor correction	Yes
	Power Supply	Dual/Double Power Supply with ATS (Automatic Transfer Switch) and UPS for the Controller
Capacities (CHW coil)	Required Gross Sensible Cooling capacity/unit	≥166 kW
	Required Net sensible cooling capacity/unit	≥ 160 kW
	Coil Air Temperature Delta	>10 °C
	RH at on coil temp	> 30%
	Off Coil Temperature	18 °C
	CHWS (Chilled Water Supply Temperature)	16 °C
	CHWR (Chilled Water Return Temperature)	24 °C
	Chilled water flow	5,1 l/s
	Coil pressure drop (including for full scope of supply)	<45
Motorised Valves	Outlet	PICV
	Inlet	Motorized Isolation Valve
	Energy meter	Included or separate flow meter
Fan	Supply Air Quantity (@ design Delta T)	≥ 15,3 m³/s
	Design delta T over unit (fan speed control)	> 10 °C
	Minimum efficiency	75%
	Maximum coil velocity	2,5 m/s
	Fan Static Pressure (external)	150 Pa
	Fan Type	EC

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Item	Description	Required/specified
Controls	Local control	Supply Air Temperature Control
	SC / Master / Local control	Delta T over unit
	Number of Supply air temperature and pressure sensors (in addition to off coil sensor)	2 (Two), to be supplied with unit
	Availability to connect in master/slave layout	Yes
Accessories	Piping connection	Victaulic Type
	Inline Water Strainer	Yes
	Number of Remote sensors with inputs available to controller	6
	Internal piping insulation	Factory fitted
	Antivibration pads	Yes
General	Manufacture	
	Model	
	Chilled water connection diameter	
	Specified Units Gross sensible cooling capacity/unit (kW)	
	Specified Units Net sensible cooling capacity/unit (kW)	
	Number of fans with Redundancy N+1	
Dimensions	Height x Width x Length (excluding base module)	
	Weight in Kg	
Electrical	ATS (Automatic Transfer Switch) Make and Model	
	Fan Absorbed Power (kWe)	
	Fan Motor Size (kWe)	
	Unit Total Power Max (kWe)	
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	Fan Absorbed Power (kWe)	
	Fan Motor Size (kWe)	
	Unit Total Power Max (kWe)	
2(Two) - Way Motorised Valve Set	Make	
	Model	
Fire Dampers	Make	
	Model	
I, the bidder, confirm that the details provided in this data sheet are true and accurate. I further accept that all goods and/or works will be delivered as specified herein. [Note (1): SITA reserves the right to verify Data Sheet information] [Note (2): First convert to PDF, then add signature]		
		Bidder's Name
		Signature (above)