

HRCB

TURN-KEY IN-RACK COOLING SOLUTIONS FOR HIGH DENSITY APPLICATIONS

SX DATA SERVER

The SX range of floor standing enclosures represents the right solution for server and datacenter applications. Made of steel and aluminum, available demountable in flat pack, Dataserver enclosures is specifically engineered to satisfy every server room installation requirements. The high strength and load capacity, the flexible cable entry management, the integrated wheel-feet system are the most important features.



STRUCTURE Self-supporting and modular structure, made of 4 bearing aluminum profiles with rounded-off angle, 15/10 thick for aesthetic points and 25/10 thick at the bearing points, provided with central strengthening crossbeams to shift free 19" profiles. Steel sheet top 15/10 thick, ready for mounting of eyebolts, pre mounted cable entry brushes 90mm large and deep. Roof and middle panels with removable holes.

TECHNICAL FEATURES

- » Modular self supporting data server rack 48U or 51U
- » Frontal full door and rear double door with 110° door hinges
- » Comfortable door handle (front and rear) with security lock cylinder and keys
- » Anti-dust brushes for cable entry
- » Insulated grounded bars with integrated grounded terminals
- » Grounded chassis
- » Moving wheels with integrated leveling feet
- » Available colors: RAL 7016 and RAL 9005. Others on request.
- » 19" profiles, depth adjustable in free position by sliding holes
- » Suitable for vertical mounting of PDU or patch panels of 1U
- » Integrated cable guide
- » Electronic front and rear handle with badge and/or security code (on request)
- » Monitoring and control system for electronic handles

Size	Racks	Dimensions (of each rack)	HE
HRCB 001	1	800 x 1200 x 2500h	51U
HRCB 002	2	600 x 1200 x 2200h	48U
HRCB 003	3	600 x 1200 x 2200h	48U

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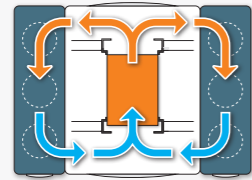
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HRCB 001

- » 2 x HRCM 0061 «extended version» monobloc rack cooler
- » 1 x Data Server 51U server rack

Max heat load: 5,9 kW

N+1 configuration for the cooling units
Overall dimensions: 1400 x 1200 x 2500h

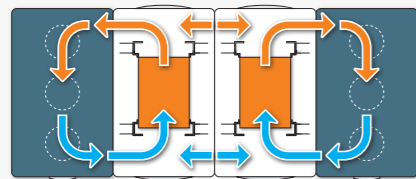


HRCB 002

- » 2 x HRCM 0101 monobloc rack cooler
- » 2 x Data Server 48U server rack

Max heat load: 9,8 kW

N+1 configuration for the cooling units
Overall dimensions: 2400 x 1200 x 2200h

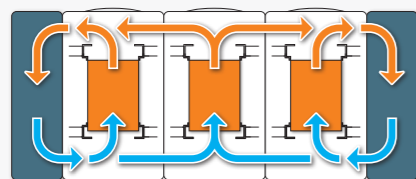


HRCB 003

- » 2 x NRCD 0100 or NRCV 0140 rack cooler
- » 3 x Data Server 48U server rack

Max heat load: 11,2 kW whit NRCD
Max heat load: 14,0 kW whit NRCV

N+1 configuration for the cooling units
Overall dimensions: 2400 x 1200 x 2200h



EASY INSTALLATION WITH TOP CONDENSING AIR CONNECTIONS



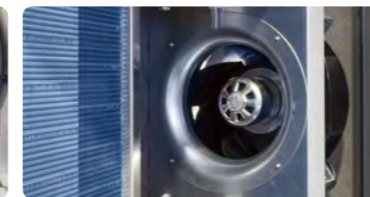
LOW INSTALLATION COSTS THANKS TO THE MONOBLOCK EXECUTION



		HRCM 0061	HRCM 0101
Total cooling capacity	kW	5,9	9,8
SHR	-	1,0	1,0
Total power input	kW	2,4	4,1
EER	-	3,5	3,1
Minimum cooling capacity with hot gas by-pass	kW	2,0	3,3
Evaporator airflow	m³/h	2000	3000
Condenser airflow	m³/h	2500	3000
AESP condensing section	Pa	153	151
Dimensions (L x H x D)	mm	300x2000x1200	600x2000x1200

EC FANS ON BOTH EVAPORATING AND CONDENSING SECTIONS

The fans used are EC brushless on both evaporating and condensing sections. This allows the HRCB to adapt to many different configurations of ducting and to benefit from high efficiency at partial loads.



- » R410 refrigerant.
- » On board condensation pump as standard.
- » Power supply 50Hz or 60Hz.
- » Touch screen available on request.
- » Low temperature (-40°C) outdoor air version available on request.

Moto-evaporating or moto-condensing unit with variable speed BLDC compressors for:

- Precise temperature control (PID regulation);
- Reduced power consumption at partial load;
- Avoiding of electrical peaks and the compressor's mechanical stress in ON/OFF cycles;

NRCD DX - Moto-evaporating Solution



Remote Condenser

NRCD

NRCV DX - Moto-condensing Solution



Moto-Condenser

NRCV

		NRCD 0100	
Compressor speed	Hz	Min	Max
Total cooling capacity	kW	3.1	11,2
Evaporator airflow	m³/h	1350	2700
Fan absorber power	kW	0,08	0,2
Dimensions (LxHxD)	mm	300x2000x1200	

Ambient Conditions: 30°C/35% r.h. - Outdoor conditions: 35°C

NRCV 0140

		Min	Max
INDOOR UNIT			
Total cooling capacity	kW	3.9	14,0
Evaporator airflow	m³/h	900	3100
Fan absorber power	kW	0,08	0,3
Dimensions (LxHxD)	mm	300x2000x1200	
OUTDOOR UNIT			
Compressor absorber power	kW	0,6	3,7
Airflow	m³/h	7000	
Dimensions (LxHxD)	mm	1120x1228x380	