

# HRCB

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

### RACK CABINETS

The **HRCB** series boasts a range of floor standing cabinets specifically engineered to satisfy every Data Center and server room application, meeting every requirement for reliability, efficiency and integrity. The line can be checked in its every dimension and it's easy to get to the internal devices thanks to the 4 independent and removable side panels. The front door, made in wide curved glass, allows to monitor the inside of the cabinet without having to open it. The back is fitted with a split door that allows opening in restricted spaces.



#### TECHNICAL FEATURES

- » Modular self supporting data server rack 47U
- » 20/10-thick steel sheet structure, capacity 2000 kg
- » Front door with 4 mm-thick tempered glass, 180° opening
- » Removable and easily reversible front door and back doors
- » 4 independent removable side panels
- » Easy-to-remove cover with double cable inlet with door and dust brushes for cable inlet
- » Internal upright fitted with wide cable inlet holes; possible hole closure with dust brushes
- » Earthing-ready
- » 4 height-adjustable feet with 4000kg total capacity
- » Cabinet fitted with 4 wheels (total capacity: 800 kg static, 700 kg dynamic)
- » Varnished with RAL 7016. Other colors on request.
- » IP20 protection rating
- » Front door with flush rocker handle with ¼ turn key and 4 lock points
- » Floor standing enclosures set for the pull-out anti-tip-over kit, with greater safety in case of maintenance of the extraction systems or device internal imbalance

Size	Racks	Dimensions (L x D x H)	HE
HRCB 001	1	800 x 1200 x 2300	47U
HRCB 002	2	600 x 1200 x 2300	47U
HRCB 003	3	600 x 1200 x 2300	47U

ITALIAN  
COOLING  
SOLUTIONS



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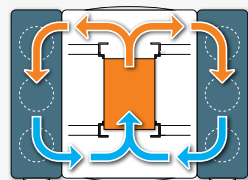
### HRCB 001

- » 2 x HRCM 0061 «extended version» monobloc rack cooler
- » 1 x 47U rack cabinets (L=800 mm)

**Max heat load: 5.8 kW**

N+1 configuration for the cooling units

Overall dimensions (L x D x H): 1400 mm x 1200 mm x 2300 mm



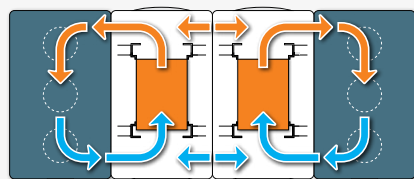
### HRCB 002

- » 2 x HRCM 0101 monobloc rack cooler
- » 2 x 47U rack cabinets (L=600 mm)

**Max heat load: 10.4 kW**

N+1 configuration for the cooling units

Overall dimensions (L x D x H): 2400 mm x 1200 mm x 2300 mm



### HRCB 003

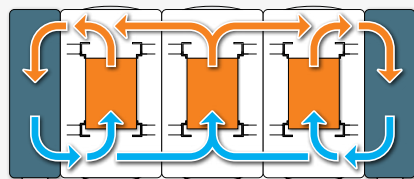
- » 2 x NRCD 0100 or NRCV 0140 rack cooler
- » 3 x 47U rack cabinets (L=600 mm)

**Max heat load: 12.6 kW whit NRCD**

**Max heat load: 13.3 kW whit NRCV**

N+1 configuration for the cooling units

Overall dimensions (L x D x H): 2400 mm x 1200 mm x 2300 mm



### EASY INSTALLATION WITH TOP CONDENSING AIR CONNECTIONS



### LOW INSTALLATION COSTS THANKS TO THE MONOBLOCK EXECUTION

	HRCM 0061	HRCM 0101
Inlet air conditions 30°C; 35% r.h. Condensing temperature 45°C		
	5.8	10.4
	1.0	1.0
	4.8	5.1
	2.0	3.5
	2000	3000
	2500	3000
	153	151
	2.4	4.1
	11.6	19.8
	230/1/50	230/1/50
	300 x 2000 x 1200	600 x 2000 x 1200



### 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.



- » R410A refrigerant.
- » On board condensation pump as standard.
- » Power supply 50 Hz or 60 Hz.
- » 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

### NRCV DX - Moto-condensing Solution



Remote Condenser



Moto-Condenser

NRCD		0100		
Modulation range	%	Min	50%	Max
Inlet air conditions 30°C; 35% r.h.; Condensing temperature 45°C				
Total cooling capacity	kW	2.6	7.7	12.6
SHR	-	1.0	1.0	1.0
EER	-	4.9	5.2	4.3
Evaporator airflow	m³/h	1350	2025	2700
Total absorber power	kW	0.6	1.6	3.2
Total absorber current	A	2.9	8.0	15.4
Power supply	V/-/Hz	230 / 1 / 50		
Dimensions (L x H x D)	mm	300 x 2000 x 1200		

NRCV		0140		
Modulation range	%	Min	50%	Max
Inlet air conditions 30°C; 35% r.h.; Condensing temperature 45°C				
Total cooling capacity	kW	3.7	8.8	13.3
SHR	-	1.0	1.0	1.0
EER	-	5.3	5.2	4.3
Evaporator airflow	m³/h	1550	2325	3100
Total absorber power	kW	0.8	1.9	3.4
Total absorber current	A	3.8	9.0	16.8
Power supply	V/-/Hz	230 / 1 / 50		
Dimensions - indoor unit (L x H x D)	mm	300x2000x1200		
Dimensions - outdoor unit (L x H x D)	mm	1270x882x463		