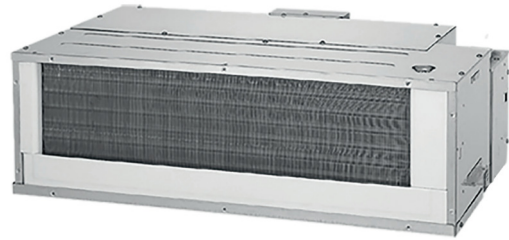# R32 duct unit

The discrete and high-performance high-end solution

New installations with VMC HYGRO B

With the CSTB (French Scientific and Technical Center for Building), Hitachi has had its duct unit ATEC-verified, which now allows this solution to be installed in new builds with a VMC HYGRO B.

Condensate pump included

So you don't have to worry about adding more on to the installation, the duct incorporates its own pumps to automatically remove condensation. (Fig. 1)

Static high pressure

The duct has a pressure of 150 Pa so you can install it just where you want it and the user does not have to worry about enough air getting to the furthest room.

Flexible installation

With a 30-m long cooling pipe between the indoor unit and the outdoor unit, this indoor unit can be installed in any part of the building. What's more, the level difference between the two can be up to 20 m.
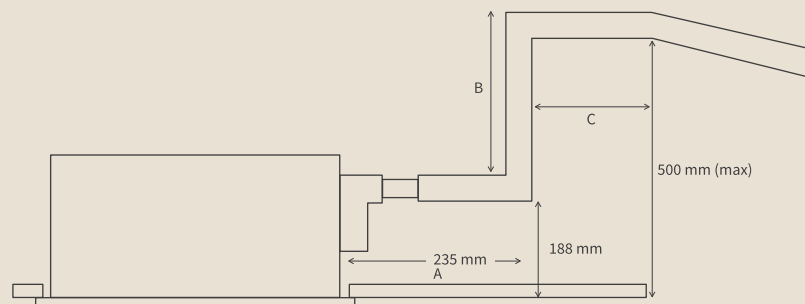
Compatible with the airCloud Pro remote controller

In the app, you can turn the system on and off, turn the temperature up or down and program the system from anywhere in the world. All you need is a mobile phone, an Internet connection and Wi-Fi equipment (optional) to connect to the equipment.
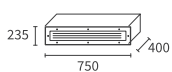
Compatible with Airzone

With a single duct unit, the user can control up to 6 rooms separately thanks to Airzone motorized plenums that fit directly onto the Hitachi units. This level of compatibility means you are free to use the full range of Airzone air regulation products.

Fig. 1
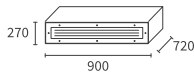
B

C

500 mm (max)

235 mm
A

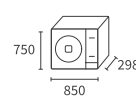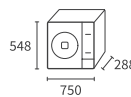188 mm

Indoor units

235
750
400

270
900
720

RAD-25RPE
RAD-35RPE

RAD-50RPE
RAD-60RPE
RAD-70PPD
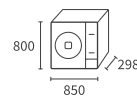
Outdoor units

548
750
288

750
850
298

800
850
298

RAC-25NPE
RAC-35NPE

RAC-50NPE
RAC-60NPE

RAC-70NPD

R32 duct unit

Performance, cooling	Unit	2.5 kW	3.5 kW	5.0 kW	6.0 kW	7.0 kW
Rated power, cooling (min-max)	kW	2.50 (0.90 - 3.00)	3.50 (0.90 - 4.00)	5.00 (1.20 - 5.80)	6.00 (1.20 - 6.50)	7.00 (1.50 - 8.00)
Rated power input Cooling (min-max)	kW	0.595 (0.25 - 1.29)	0.945 (0.25 - 1.46)	1.42 (0.30 - 2.50)	1.71 (0.30 - 2.60)	2.11 (0.50 - 2.70)
EER	-	4.20	3.70	3.52	3.51	3.32
Energy class Cooling	-			A++		
SEER (average climate)	-	6.20	6.50	6.20		6.10
Guaranteed performance in Cooling mode for outside Temp°	°C		-10°C / +46°C		-15°C / +46°C	
Performance, heating						
Rated power, heating (min-max)	kW	3.50 (0.90 - 5.50)	4.80 (0.90 - 6.60)	6.00 (1.20 - 6.80)	7.00 (1.20 - 8.00)	8.00 (1.50 - 8.50)
Power at full charge at -7°C[1]	kW	2.50	3.20	4.20	5.00	5.50
Rated power input Heating (min-max)	kW	0.875 (0.25 - 1.50)	1.260 (0.25 - 1.92)	1.57 (0.30 - 2.65)	1.84 (0.30 - 2.65)	2.20 (0.50 - 2.80)
COP	-	4.00	3.81	3.82	3.80	3.64
Energy class Heating	-			A+		
SCOP (average climate)	-		4.30		4.00	
Guaranteed performance in Heating mode for outside Temp°	°C			-15°C / +24°C		
Indoor units		RAD-25RPE	RAD-35RPE	RAD-50RPE	RAD-60RPE	RAD-70PPD
Sound pressure in Cooling mode (spv / pv / mv / gv) [2]	dB(A)		30 / 33 / 37 / 41		29 / 32 / 35 / 39	
Sound pressure in Heating mode (spv / pv / mv / gv) [2]	dB(A)		30 / 34 / 38 / 42		29 / 32 / 35 / 40	
Sound pressure in Cooling mode	dB(A)		57		53	
Static pressure (pv / mv / gv)	Pa		- / - / 70		50 / 100 / 150	
Airflow in Cooling mode (spv / pv / mv / gv)	m³/h		330 / 390 / 450 / 510	350 / 540 / 800 / 1140		600 / 720 / 840 / 1020
Dehumidification	l/h	1.4	1.6	2.8		4.8
Dimensions (H x L x D)	mm		235 x 750 x 400		270 x 900 x 720	
Net weight	kg		16		35	
Condensing pump	-			Included		
Remote control	-		Not included (SPX-RCKA1 / SPX-RCDA1 / SPX-WKT4)			
Outdoor units	Unit	RAC-25NPE	RAC-35NPE	RAC-50NPE	RAC-60NPE	RAC-70NPD
Sound pressure in Cooling mode [2]	dB(A)		48		50	
Sound pressure in Cooling mode	dB(A)		61		65	
Airflow (Cooling / Heating)	m³/h		1920 / 1620	2160 / 2160		2700 / 2700
Dimensions (H x L x D)	mm		548 x 750 x 288	750 x 850 x 298		800 x 850 x 298
Net weight	kg		32.5		50	52
Compressor	-			Rotary		
Cooling properties						
Diameter of pipes (Liq / Gas)	inches		1/4" / 3/8"	1/4" / 1/2"		1/4" / 5/8"
Initial coolant fill	kg		0.86	1.50		1.60
Prefilled for	m		20		30	
Min. length	m			3		
Max. length / Coolant refill	m/g/m		20 / -		30 / -	
Max. level difference (outdoor unit above / outdoor unit below)	m		10 / 10		20 / 20	
Coolant	-			R32		
Electrical features						
Power supply	V/Ph/Hz			230V / 1Ph / 50Hz		
Max. current	A		15		20	
Cable width (EN 60 335-1)	mm²		2 x 1.50 + T		2 x 2.50 + T	
Indoor/outdoor connection (protected)	mm²			3 x 1.50 + T		

Retail price per unit excluding taxes	(+eco part)					
		RAD-25RPE	RAD-35RPE	RAD-50RPE	RAD-60RPE	RAD-70PPD
Indoor unit (Remote control not included)	€+1.67	€931	€1,122	€1,350	€1,400	-
	€+1.67			-		€1,458
		RAC-25NPE	RAC-35NPE	RAC-50NPE	RAC-60NPE	RAC-70NPD
External unit	€+6.67	€1,381	€1,545	€1,700	€1,970	€2,440
Wired remote control SPX-WKT4	€+0.12			€195		
Price for whole set Indoor unit + outdoor unit + wired remote control SPX-WKT4	€+8.46	€2,507	€2,862	€3,245	€3,565	-
	€+8.46			-		€4,093

Eco-participation is a net unit amount excluding taxes and is not discountable. It is added to the net price.
[1] Data includes defrosting. To find out the data for your project, refer to our technical catalogs.
[2] Sound pressure measurements were made 1 meter from the unit without obstructions (see the technical catalog).

Part number	Description	Length	Height	Depth	Compatibility	Number of ductwork connections	Price excluding taxes
PIM1SOURADNH	STANDALONE FAN BLOWER PLENUM M1 2XD200	720	200	300 + 50	RAD-18QPE* / RAD 25-35RPE	2 x 200	€200
PIM1REPRADNH	STANDALONE INTAKE PLENUM M1 2XD200	655	205	200 + 50	RAD-18QPE / RAD 25-35RPE	2 x 200	€139
PIM1REPRADNHF	STANDALONE INTAKE PLENUM M1 filter door 2XD200	655	205	200 + 50	RAD-18QPE / RAD 25-35RPE	2 x 200	€164
PIM1SOURADDH	STANDALONE FAN BLOWER PLENUM M1 3XD200	810	225	250 + 50	RAD-50-60RPE / RAD-70PPD	3 x 200	€200
PIM1REPRADDH	STANDALONE INTAKE PLENUM M1 2XD200	820	225	200 + 50	RAD-50-60RPE / RAD-70PPD	2 x 200	€139

* Only available as a multi option

Controls and compatible accessories (see page 197)

Wired programmable remote control

SPX-WKT4

Price plus taxes: €195

Infrared remote control

SPX-RCKA1

Price plus taxes: €155

Wired standard remote control

SPX-RCDA1

Price plus taxes: €150

Other (price excluding taxes):

- H-Link box – PSC-6RAD: €199

- Control box

Multi-indoor units

SPX-DST1 (€63) + SPX-WDST8M (€70)

- Hi Kumo interface WIFI SPX-WFG01: €150

- Hi-Box AHP-SMB-01: €215

- Hi Kumo interface for Hi-Box

- SPX-TAG01: €150

- Single dry contact kit SPX-WDC2: €26

- SPX-RTH1 remote sensor: €77