

Multi-split

Multi-split standard outdoor units



Indoor units



Multi-split Summit outdoor units



Indoor units



Selection guide

Multi-split standard RAM-NPE outdoor units		Rated power Cooling (kW)	3.3	4.0	5.3	6.8 / 7.0	8.5	10.0	
		Heating capacity at -7°C Heating (kW)	Up to 3.5	Up to 4.0	Up to 5.5	Up to 6.5	Up to 7.8	Up to 8.0	HIBERNATE Puts electronic components into standby mode
	 (3.3 and 4.0 kW) (5.3 kW)	2 indoor units	SEER A+++ 8.50 SCOP A++ 4.60	SEER A+++ 8.50 SCOP A++ 4.60	SEER A+++ 8.50 SCOP A++ 4.60				POWER HIGH at -7°C
	 (5.3 and 6.8 kW)	3 indoor units			SEER A+++ 8.50 SCOP A++ 4.60	SEER A++ 8.10 SCOP A++ 4.60			VECTOR CONTROL Very low-frequency compressor control Reduced noise level Energy-saving
	 (7.0 kW)	4 indoor units				SEER A++ 8.10 SCOP A++ 4.60			
	 (8.5 and 10.0 kW)	5 indoor units					SEER A++ 7.90 SCOP A++ 4.30	SEER A++ 6.52 SCOP A++ 4.22	

Compatible indoor units

Multi-Split indoor units

Shirokuma wall unit RAK-18QXE RAK-25-50-RXE	Performance wall unit RAK-15QPE RAK-18-50RPE	Light commercial wall unit RAK-60RPE	600 x 600 R32 cassette RAI-25- 60RPE	Shirokuma console RAF-25-50RXE	R32 ducted RAD-18QPE RAD-25-60RPE

Multi-split Summit RAM-NEF outdoor units		Rated power Cooling (kW)	4.0	5.3
		Heating capacity at -7°C Heating (kW)	Up to 3.5	Up to 4.3
	 (4 and 5.3 kW)	2 indoor units	SEER A+++ 8.25 SCOP A+ 4.30	SEER A+++ 8.10 SCOP A+ 4.10
	 (5.3kW)	3 indoor units		SEER A+++ 8.10 SCOP A+ 4.10

Compatible indoor units

Multi-Split indoor units

Summit wall unit RAK-15QEF RAK-18-50REF

Benefits Multi-split

1

Discreet design that blends in



With their harmonized designs, the Shirokuma console and wall mount will fit perfectly into any indoor space.

2

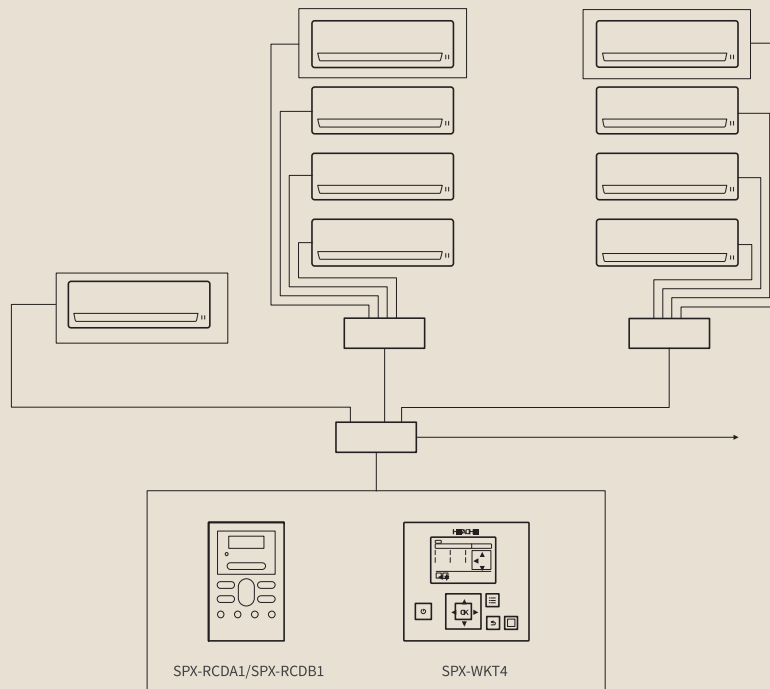
Easy to install and maintain



- With duct-type units, you can adapt the static pressure to the needs of each installation.
- Outdoor units with 2 outlets come pre-charged with R32 gas. There is no need to add more gas. This saves on installation time and costs.
- Alarm code is displayed on the control for faster diagnostics.

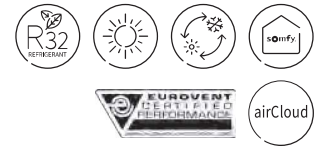
3

Solutions to control the system in a centralized way



Central control for up to 13 indoor units with the wired remote control SPX-WTK4 and boxes SPX-DST1 + SPX-WDST8M

Multi-split



Standard R32 outdoor units



	Part no.	RAM-33NP2E	RAM-40NP2E	RAM-53NP2E	RAM-53NP3E	RAM-68NP3E	RAM-70NP4E	RAM-90NP5E	RAM-110NP5E	
Number of connectible units (min-max)	-	2		2 / 3		2 / 4		2 / 5		
Nominal cooling capacity (min-max)	kW	3.3 (1.50 - 3.80)	4.00 (1.50 - 4.20)	5.30 (1.50 - 6.60)		6.80 (2.40 - 8.00)	7.00 (2.40 - 8.80)	8.50 (1.52 - 9.50)	10.00 (1.50 - 12.50)	
Nominal heating capacity (min-max)	kW	4.00 (1.50 - 4.60)	5.20 (1.50 - 5.50)	6.80 (1.50 - 7.20)		8.50 (2.40 - 9.50)	8.50 (2.60 - 9.50)	10.00 (1.50 - 11.50)	12.00 (1.50 - 12.70)	
Heating capacity at -7°C ⁽¹⁾	kW	3.50	4.00	4.50	5.50	6.50		7.80	8.00	
Rated power input Cooling (min-max)	kW	0.73 (0.20 - 1.05)	0.95 (0.20 - 1.15)	1.26 (0.20 - 1.66)	1.29 (0.20 - 1.68)	1.83 (0.46 - 2.96)	1.89 (0.46 - 3.20)	2.50 (0.50 - 3.85)	3.096 (0.50 - 4.50)	
Rated power input Heating (min-max)	kW	0.90 (0.20 - 1.50)	1.18 (0.20 - 1.50)	1.61 (0.20 - 2.01)	1.61 (0.20 - 2.01)	2.12 (0.43 - 2.60)	2.02 (0.48 - 3.12)	2.56 (0.50 - 3.85)	3.158 (0.50 - 5.00)	
EER/COP	-	4.50 / 4.40	4.20 / 4.40	4.20 / 4.20	4.10 / 4.20	3.70 / 4.00	3.70 / 4.20	3.40 / 3.90	3.23 / 3.8	
SEER/SCOP (average climate)	-	8.50 / 4.60				8.10 / 4.60		7.90 / 4.30		6.52 / 4.22
Seasonal energy class (Cooling/Heating)	-	A+++ / A++				A++ / A++				A++ / A+
Sound pressure in Cooling mode	dB(A)	48	49	50		53		54	54	
Sound power	dB(A)	60		61		63		66	68	
Airflow (Cooling/Heating)	m ³ /h	1620 / 1620		2160 / 2160		2700 / 2700		3900 / 3900	4000 / 4000	
Dimensions (HxWxD)	mm	570 x 750 x 280		750 x 850 x 298		800 x 850 x 298		800 x 950 x 370		
Net weight	kg	38	41	53	54	58		71	76	
Power supply	-	220-230V								
Recommended fuse size	A	16			20			25		
Cable width (EN 60 335-1) ⁽²⁾	mm ²	2 x 2.5 + E								
Indoor/outdoor connection	mm ²	3 x 1.5 + E								
Diameter of pipes (Liq/Gas)	inches	(1/4 x 2 / 3/8 x 2)			(1/4 x 3 / 3/8 x 3)		(1/4 x 4 / 3/8 x 3 + 1/2 x 1)		1/4 x 5 / (3/8 x 3) + (1/2 x 2)	
Initial refrigerant charge	kg	1.02		1.80		2.05		2.40		
Pre-charged for	m	35			30			35	30	
Min. length	m	3								
Max. length / additional charge	m/g/m	35 / -			60 / 20			75 / 15	75 / 13	
Max. level difference	m	10			20					
Operating range Cooling	°C	-10°C / +46°C								
Operating range Heating	°C	-15°C / +24°C								
Refrigerant	-	R32								
Compressor	-	ROTARY			TWIN ROTARY					

⁽¹⁾ Data includes defrosting. To find out the data for your project, refer to our technical catalogues.

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Controls and compatible accessories (see page 161)



Wired programmable remote control
SPX-WKT4



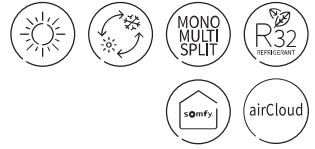
Infrared remote control
SPX-RCKA1 for ducted
SPX-RCKA2 for RAK-60RPE
SPX-RCKA3 for cassette



Wired standard remote control
SPX-RCDA1



Wired standard remote control
SPX-RCDB1



Multi-split

Indoor units

Shirokuma wall unit



Shirokuma range of wall units

Suits any type of installation with models designed for smaller areas. The size 18 model is switchable to reduce power (1.8 kW > 1.2 kW in cooling mode and 2.5 kW > 1.8 kW in heating mode).

Motion sensor

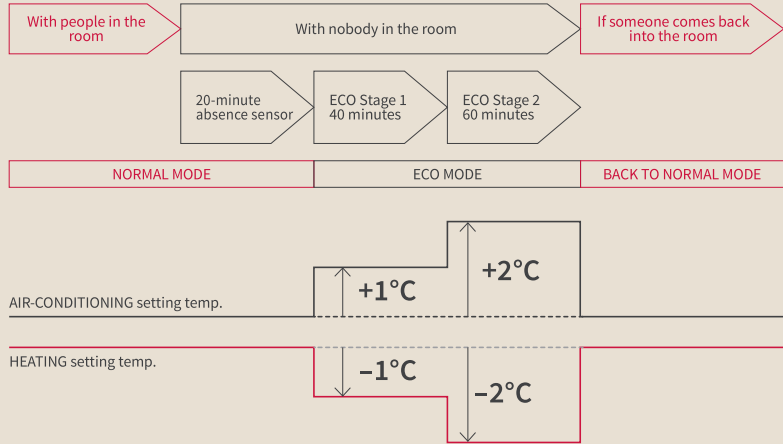
It adapts how the indoor unit works depending on whether there are people in the room or not. See Eco Sensor image opposite.

Ultra performance filtration

STAINLESS prefilters and Active Carbon filters as standard. The Active Carbon filter with silver ions (known for their antibacterial properties) acts by adsorption. This retains certain gas molecules or suspended particles on the surface of the filter. The air that comes out of the filter is then free of odors and pollutants.

Silent units

20 dB(A) on the size 25 model.

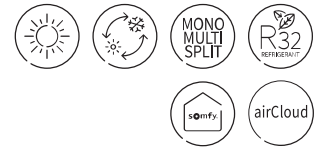


Unit	RAK-18QXE	RAK-25RXE	RAK-35RXE	RAK-50RXE
Nominal cooling capacity (min - max)	kW 1.80 (1.00 - 2.50)	2.50 (0.90 - 3.10)	3.50 (0.90 - 4.00)	5.00 (1.90 - 5.20)
Nominal heating capacity (min - max)	kW 2.50 (1.10 - 3.20)	3.20 (0.90 - 4.20)	4.00 (0.90 - 4.80)	5.80 (2.20 - 7.00)
Sound pressure in Cooling mode (EL / L / M / H) ⁽¹⁾	dB(A) 20 / 25 / 30 / 36	20 / 27 / 35 / 43	22 / 29 / 37 / 45	25 / 31 / 39 / 47
Sound power	dB(A) 49	58	60	
Airflow in Cooling mode (EL / L / M / H)	m ³ /h 300 / 330 / 430 / 500	300 / 330 / 510 / 600	320 / 340 / 520 / 660	350 / 400 / 580 / 720
Dehumidification	l/h 1.2	1.4	1.6	2.0
Dimensions (H x W x D)	mm	295 x 900 x 210		
Diameter of pipes (Liq / Gas)	inches	1/4 - 3/8		1/4 - 1/2
Net weight	kg	11.0		
Power supply	V	220 - 230V		
Cable width (EN 60 335 - 1) ⁽²⁾	mm ²	3 x 1.50 + E		3 x 2.50 + E
Remote control	-	Weekly infrared RAR-6NE1 (included)		

⁽¹⁾ Sound pressure measurements were made 1 meter from the unit without obstructions (see the technical catalogue).

⁽²⁾ Data shown is for indication purpose only. It is the installer's responsibility to ensure that these cable widths meet the needs of the facility and current standards.

Multi-split



Indoor units

Performance wall units and Light commercial wall units



The Performance range of wall units

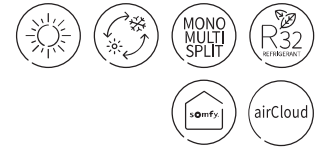
Suits any type of installation with models designed for smaller areas. The size 15 model is switchable to reduce power (1.5 kW > 1 kW* in cooling mode and 2 kW > 1.5 kW in heating mode). With its Active Carbon filter, the air is free of odors and pollutants.

Unit	RAK-15QPE	RAK-18RPE	RAK-25RPE	RAK-35RPE	RAK-42RPE	RAK-50RPE	RAK-60RPE	
Nominal cooling capacity (min - max)	kW 1.50 (0.90 - 2.00)	2.00 (0.90 - 2.50)	2.50 (0.90 - 3.10)	3.50 (0.90 - 4.00)	4.20 (1.70 - 5.00)	5.00 (1.90 - 5.20)	6.00 (1.20 - 6.50)	
Nominal heating capacity (min - max)	kW 2.00 (1.00 - 2.50)	2.50 (0.90 - 3.20)	3.40 (0.90 - 4.40)	4.20 (0.90 - 5.00)	5.40 (1.70 - 6.00)	6.00 (2.20 - 7.30)	7.00 (1.20 - 8.00)	
Sound pressure in Cooling mode (EL / L / M / H) ⁽¹⁾	dB(A) 20 / 24 / 30 / 34	21 / 24 / 33 / 37	22 / 24 / 33 / 40	25 / 26 / 36 / 43	25 / 28 / 39 / 46	25 / 28 / 39 / 46	30 / 33 / 42 / 48	
Airflow in Cooling mode (EL / L / M / H)	m ³ /h 312 / 350 / 400 / 420	312 / 350 / 400 / 440	333 / 370 / 430 / 510	353 / 420 / 485 / 680	353 / 410 / 540 / 720	353 / 410 / 540 / 750	310 / 410 / 570 / 720	
Dehumidification	l/h 1.20	1.20	1.40	1.60	1.80	2.00	2.8	
Dimensions (H x W x D)	mm	280 x 780 x 230					300 x 900 x 230	
Diameter of pipes (Liq / Gas)	inches	1/4 - 3/8			1/4 - 1/2			
Net weight	kg	8.5					11.5	
Power supply	V	220 - 230V						
Cable width (EN 60 335 - 1) ⁽²⁾	mm ²	3 x 1.50 + E			3 x 2.50 + E		3 x 1.50 + E	
Remote control	-	Weekly infrared RAR-6NE1 (included)					Not supplied (SPX-RCKA2 / SPX-RCDB1 / SPX-WKT4)	

⁽¹⁾ Sound pressure measurements were made 1 meter from the unit without obstructions (see the technical catalogue).

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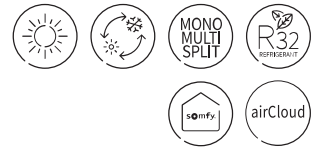
Cassette unit 600 × 600



Indoor units	Unit	RAI-25RPE	RAI-35RPE	RAI-50RPE	RAI-60RPE
Nominal cooling capacity (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)
Nominal heating capacity (min - max)	kW	3.50 (0.90 - 5.00)	4.80 (0.90 - 6.60)	6.00 (1.20 - 6.80)	7.00 (1.20 - 8.00)
Sound pressure in Cooling mode (EL / L / M / H) ⁽¹⁾	-	27 / 31 / 35 / 38	27 / 33 / 37 / 40	29 / 35 / 39 / 43	
Sound pressure in Heating mode (EL / L / M / H) ⁽¹⁾	-	28 / 32 / 36 / 39	28 / 34 / 38 / 41	30 / 36 / 40 / 44	
Sound power	dB(A)	54	56	56	
Airflow in Cooling mode (EL / L / M / H)	m ³ /h	360 / 505 / 590 / 660		390 / 540 / 630 / 720	
Dehumidification	l/h	1.4	1.8	2.8	3.8
Dimensions (H x W x D)	mm	285 x 570 x 570			
Fascia panel dimensions (H x W x D)	mm	30 x 620 x 620			
Condensate outlet diameter (ext.)	mm	32			
Condensate pump	-	yes			
Diameter of pipes (Liq / Gas)	inches	1/4 - 3/8		1/4 - 1/2	1/4 - 1/2
Net weight	kg	17			
Net weight of fascia panel	kg	2.8			
Part number of front panel	-	P-AP56NAMS			
Power supply	V	220 - 230V			
Cable width (EN 60 335-1) ⁽²⁾	mm ²	3 x 1.50 + E			
Remote control	-	Not supplied (SPX-RCKA3 / SPX-RCDB1 / SPX-WKT4)			

⁽¹⁾ Sound pressure measurements were made 1 meter from the unit without obstructions (see the technical catalogue).

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Extended airflow

With a larger **dynamic airflow**, the air can reach every corner of the room. The room is conditioned (with heating or cooling air) at the touch of a button on the remote control. (Fig. 1)

Flexibility with the multi-split range

The indoor unit of the Shirokuma console is compatible with all multi-split outdoor groups. You can also have multiple

indoor units installed in different rooms with a single outdoor unit.

Exceptionally high-performance

The console has an energy rating of A+++.
Guaranteed energy savings!

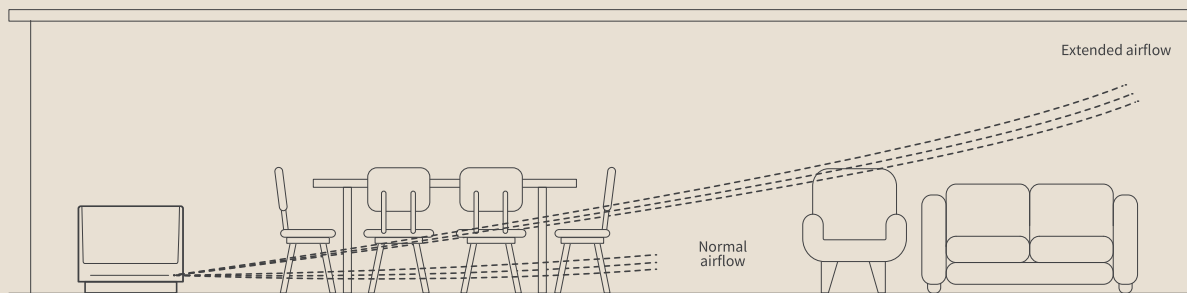
Management options

The console comes with an infrared remote control as standard. It is also compatible with the SPX-WKT4 wired remote control with hourly programming.

Compatible with airCloud

The entire Hitachi residential range is compatible with the airCloud for Home system, which allows you to control equipment **from any mobile device** acting as a remote control.

Fig. 1



Indoor units	Unit	RAF-25RXE	RAF-35RXE	RAF-50RXE
Nominal cooling capacity (min - max)	kW	2.50 (0.90 - 3.10)	3.50 (0.90 - 4.00)	5.00 (0.90 - 5.20)
Nominal heating capacity (min - max)	kW	3.40 (0.90 - 4.40)	4.50 (0.90 - 5.00)	6.00 (0.90 - 8.10)
Sound pressure in Cooling mode (EL / L / M / H) ⁽¹⁾	dB(A)	20 / 26 / 31 / 38	20 / 26 / 31 / 39	22 / 29 / 36 / 43
Sound power	dB(A)	52		56
Airflow in Cooling mode (EL / L / M / H)	m ³ /h	270 / 390 / 510 / 630	270 / 390 / 510 / 660	300 / 450 / 540 / 720
Dehumidification	l/h	1.4	1.9	2.8
Dimensions (H x W x D)	mm	590 x 750 x 215		
Condensate outlet diameter (ext.)	mm	16		
Diameter of pipes (Liq / Gas)	inches	1/4 - 3/8		1/4 - 1/2
Net weight	kg	15		
Power supply	-	220 - 230 V		
Cable width (EN 60 335-1) ⁽²⁾	mm ²	3 x 1.50 + E		3 x 2.50 + E
Remote control	-	Weekly infrared RAR-6NE1 (included)		

⁽¹⁾ Sound pressure measurements were made 1 meter from the unit without obstructions (see the technical catalogue).

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Controls and compatible accessories (see page 161)

Leakage sensor
SPX-RAFGLS



Wired programmable remote control
SPX-WKT4



Infrared remote control
SPX-RCKA1 for ducted
SPX-RCKA2 for RAK-60RPE
SPX-RCKA3 for cassette

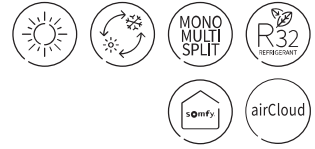


Wired standard remote control
SPX-RCDB1

Multi-split

Indoor units

R32 ducted



Indoor unit ducts

These now have a static pressure setting available: 50 to 150 Pa.

Plenums (optional)

Plenum supply air 2 x D200.
- return air plenum 2 x D200 (with or without filter access).

Remote sensor (optional)

For maximum comfort in the home
- Part number: SPX-RTH1

Indoor units	Unit	RAD-18QPE	RAD-25RPE	RAD-35RPE	RAD-50RPE	RAD-60RPE
Nominal cooling capacity (min - max)	kW	1.80 (0.90 - 2.50)	2.50 (0.90 - 3.00)	3.50 (0.90 - 4.00)	5.00 (1.20 - 5.80)	6.00 (1.20 - 6.50)
Nominal heating capacity (min - max)	kW	2.50 (0.90 - 3.20)	3.50 (0.90 - 5.50)	4.80 (0.90 - 6.60)	6.00 (1.20 - 6.80)	7.00 (1.20 - 8.00)
Sound pressure in Cooling mode (EL / L / M / H) ⁽¹⁾	dB(A)	30 / 33 / 37 / 41			29 / 32 / 35 / 39	
Sound pressure in Heating mode (EL / L / M / H) ⁽¹⁾	dB(A)	30 / 34 / 38 / 42			29 / 32 / 35 / 40	
Sound power	dB(A)	57			53	
Airflow in Cooling mode (EL / L / M / H)	m ³ /h	330 / 390 / 450 / 510			350 / 540 / 800 / 1140	
Static pressure (L / M / H)	Pa	- / - / 70			50 / 100 / 150	
Dehumidification	l/h	1.4		1.6	2.8	2.8
Dimensions (H x W x D)	mm	235 x 750 x 400			270 x 900 x 720	
Condensate outlet diameter (ext)	mm	16			32	
Condensate pump	-	YES				
Diameter of pipes (Liq / Gas)	inches	1/4 - 3/8			1/4 - 1/2	
Net weight	kg	16			35	
Power supply	V	220 - 230V				
Cable width (EN 60 335-1) ⁽²⁾	mm ²	3 x 1.5 + E			3 x 1.5 + E	
Remote control		Not supplied (SPX-RCKA1 / SPX-RCDB1 / SPX-WKT4)				

⁽¹⁾ Sound pressure measurements were made 1 meter from the unit without obstructions (see the technical catalogue).

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Part number	Description	Length	Height	Depth	Compatibility	Number of ductwork connections
PIM1SOURADNH	STANDALONE SUPPLY AIR PLENUM 2XD200	720	200	300 + 50	RAD-18QPE* / RAD 25-35RPE	2 x 200
PIM1REPRADNH	STANDALONE RETURN AIR PLENUM 2XD200	655	205	200 + 50	RAD-18QPE / RAD 25-35RPE	2 x 200
PIM1REPRADNHF	STANDALONE RETURN AIR PLENUM filter access door 2XD200	655	205	200 + 50	RAD-18QPE / RAD 25-35RPE	2 x 200
PIM1SOURADDH	STANDALONE SUPPLY AIR PLENUM 3XD200	810	225	250 + 50	RAD-50-60RPE / RAD-70PPD	3 x 200
PIM1REPRADDH	STANDALONE RETURN AIR PLENUM 2XD200	820	225	200 + 50	RAD-50-60RPE / RAD-70PPD	2 x 200

* Only available as a multi option