

Performance

Compact size and high performance



Ultra-compact

The most compact unit of the range, with an overall width of 78 cm. It will fit perfectly into any room and can easily be installed above a doorway. (Fig.3)

4-Way Swing

Because the blades move both vertically and horizontally, the air is distributed more uniformly, improving the level of comfort in the room. (Fig. 1)

Motion sensor

Technology that saves you money – with a motion sensor to continuously analyze the presence of people in the room.

If there is no detection after 20 min, the setpoint is shifted by one degree; after 40 min it shifts one degree again. (Fig. 2)

Compatible with the airCloud 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.

FrostWash technology

The Performance is designed to offer you effective air purification throughout the year with its exclusive and innovative functionality: FrostWash. Automatically and regularly cleans the heat exchanger to emit pure, clean air.

Silent operation

With a low noise level of just 20 dB(A)*, you can enjoy a comfortable environment without noticing that the indoor unit is even running.

Active Carbon filter

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.

Fig. 1

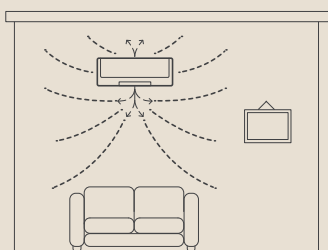


Fig. 2

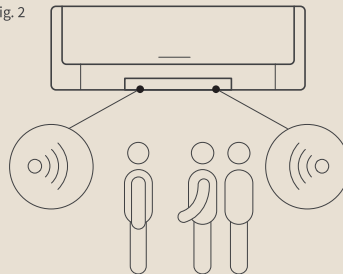
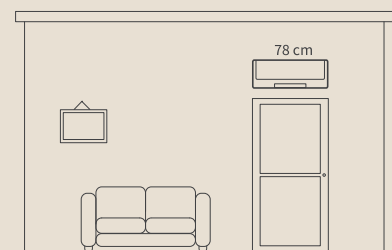
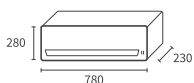


Fig. 3

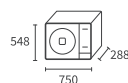


Indoor units

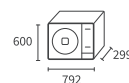


RAK-18RPE
RAK-25RPE
RAK-35RPE
RAK-42RPE
RAK-50RPE

Outdoor units



RAC-18WPE
RAC-25WPE
RAC-35WPE



RAC-42WPE
RAC-50WPE

*20dB(A) acoustic pressure at low fan speeds.

Performance

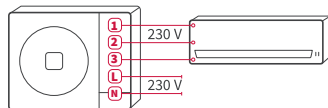
Performance, cooling	Unit	1.8 kW	2.5 kW	3.5 kW	4.2 kW	5.0 kW
Nominal cooling capacity (min-max)	kW	2.00 (0.90 - 2.50)	2.50 (0.90 - 3.10)	3.50 (0.90 - 4.00)	4.20 (1.70 - 5.00)	5.00 (1.90 - 5.20)
UK cooling capacity (UK sensible)	kW	1.91 (1.79)	2.38 (1.89)	3.33 (2.24)	4.00 (3.00)	4.76 (3.17)
Rated power input Cooling (min-max)	kW	0.419 (0.25 - 1.01)	0.549 (0.25 - 1.29)	0.941 (0.25 - 1.46)	1.120 (0.30 - 1.70)	1.471 (0.30 - 2.10)
EER	-	4.77	4.55	3.72	3.75	3.40
Energy class Cooling	-	A+++			A++	
SEER (average climate)	-	8.50			7.80	7.35
Working range in Cooling	°C	-10°C / +43°C				
Performance, heating						
Nominal heating capacity (min-max)	kW	2.50 (0.90 - 3.20)	3.40 (0.90 - 4.40)	4.20 (0.90 - 5.00)	5.40 (1.7 - 6.00)	6.00 (2.2 - 7.30)
Heating capacity at -7°C ⁽¹⁾	kW	2.30	3.00	3.40	3.80	4.10
Rated power input Heating (min-max)	kW	0.519 (0.25 - 0.97)	0.733 (0.25 - 1.50)	1.000 (0.25 - 1.70)	1.317 (0.50 - 2.10)	1.558 (0.50 - 2.75)
COP	-	4.82	4.64	4.20	4.10	3.85
Energy class Heating	-	A++				
SCOP (average climate)	-	4.90			4.60	
Working range in Heating	°C	-15°C / +21°C				
Indoor units						
		RAK-18RPE	RAK-25RPE	RAK-35RPE	RAK-42RPE	RAK-50RPE
Sound pressure in Cooling mode (EL / L / M / H) ⁽²⁾	dB(A)	21 / 24 / 33 / 37	22 / 24 / 33 / 40	25 / 26 / 36 / 43	25 / 28 / 39 / 46	25 / 28 / 39 / 46
Sound pressure in Heating mode (EL / L / M / H) ⁽²⁾	dB(A)	19 / 22 / 33 / 38	20 / 23 / 34 / 41	26 / 27 / 36 / 44	27 / 31 / 39 / 46	25 / 28 / 39 / 46
Sound power in Cooling mode	dB(A)	51	54	57	60	60
Airflow in Cooling mode (EL / L / M / H)	m ³ /h	312 / 350 / 400 / 440	333 / 370 / 430 / 510	353 / 420 / 485 / 680	353 / 410 / 540 / 720	353 / 410 / 540 / 720
Dehumidification	l/h	1.2	1.4	1.6	1.8	2
Dimensions (H x L x D)	mm	280 x 780 x 230				
Net weight	kg	8.5				
Remote control	-	Weekly infrared (included)				
Outdoor units						
	Unit	RAC-18WPE	RAC-25WPE	RAC-35WPE	RAC-42WPE	RAC-50WPE
Sound pressure in Cooling mode ⁽²⁾	dB(A)	44	46	48	49	49
Sound power in Cooling mode	dB(A)	58	60	61	63	63
Airflow (Cooling / Heating)	m ³ /h	1860 / 1620		1920 / 1620	2160 / 2160	
Dimensions (H x L x D)	mm	548 x 750 x 288			600 x 792 x 299	
Net weight	kg	32.5			39	
Compressor	-	Rotary				
Refrigeration characteristics						
Diameter of pipes (Liq / Gas)	inches	1/4" / 3/8"			1/4" / 1/2"	
Initial refrigerant charge	kg	0.870			1.050	
Pre-charged for	m	20			3	
Min. length	m	20 / -			10 / 10	
Max. length / Additional charge	m/g/m	10 / 10			R32	
Max. level difference (outdoor unit above / outdoor unit below)	m	R32				
Refrigerant	-	R32				
Electrical features						
Power supply	V/Ph/Hz	230V / 1Ph / 50Hz				
Operating current (Cooling / Heating)	A	1.09 - 4.39 / 1.09 - 4.22	1.09 - 5.61 / 1.09 - 6.52	1.09 - 6.35 / 1.09 - 7.39	1.30 - 7.39 / 2.17 - 8.70	1.30 - 8.70 / 2.17 - 11.96
Recommended fuse size	A	15	15	15	25	25
Cable width (EN 60 335-1) ⁽³⁾	mm ²	1.50 x 2 + E			2.50 x 2 + E	
Indoor/outdoor connection (shielded)	mm ²	1.50 x 3 + E			2.50 x 3 + E	

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

⁽²⁾ Sound pressure measurements were made 1 meter from the unit without obstructions (see the technical catalogue).

⁽³⁾ 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.

Indoor units are powered at 220-230 V from the outdoor unit.



Controls and compatible accessories (see page 161)



Infrared remote control

RAR-6NE1
Included



Wired standard remote control

SPX-RCDB1

Other (price excluding taxes):

- Control box for multi-indoor units SPX-DST1 + SPX-WDST8M
- interface airCloud Home SPX-WFG02
- Hi-Box AHP-SMB-01
- Hi Kumo interface for Hi-Box SPX-TAG01
- Single dry contact kit SPX-WDC3
- Single error report kit SPX-WDC7 + HA-S100TSA



Wired programmable remote control

SPX-WKT4



H-Link box

PSC-6RAD