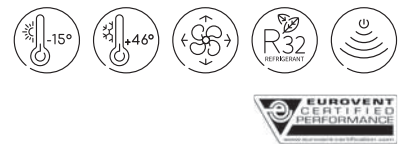# R32 Light commercial Cassette

Appearance and comfort

Condensate pump included

The cassette unit for small commercial buildings incorporates its own condensate pumps to remove condensation automatically, without the need for any other add-ons.
(Fig. 1)

Motion sensor

An air-conditioning unit without unnecessary consumption thanks to the motion sensor that gradually decreases the energy consumption of the equipment when the room is empty and restarts it when it detects people moving.

Improved comfort

On this equipment you can choose where to measure the setting temperature (at the remote control or the return or using the average of both readings). This feature provides superior comfort in the room.

Flexible installation

With a 30-m long pipe run between the indoor unit and the outdoor unit, this equipment can be installed in any part of the building. What's more, the level difference between the two can be up to 20 m. 600 x 600 mm in size, they can be integrated into standard ceiling panels.

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 indoor unit.

Individual control of the louvres

The 4 louvres in the cassette unit can be configured individually with the SPX-WKT4 so that each one works differently: blowing air directly towards the user, directing air at the ceiling or at the floor, etc. Comfort is guaranteed.
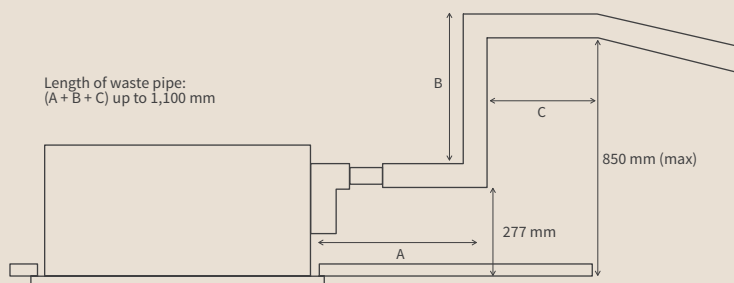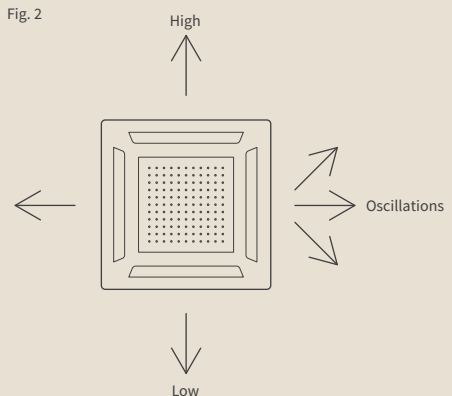(Fig. 2)

Fig. 1

Length of waste pipe:
(A + B + C) up to 1,100 mm
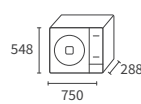
B

C

850 mm (max)

277 mm

A

Fig. 2

High

Oscillations

Low

Indoor units

570
570
285
30
620
620
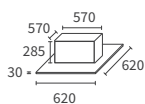
RAI-25RPE   RAI-50RPE
RAI-35RPE   RAI-60RPE

Outdoor units

548
750
288

750
850
298
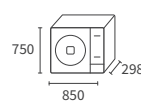
RAC-25NPE   RAC-50NPE
RAC-35NPE   RAC-60NPE

R32 Light commercial Cassette

Performance, cooling	Unit	2.5 kW	3.5 kW	5.0 kW	6.0 kW
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)
UK total cooling capacity (UK sensible)	kW	1.86 (1.79)	2.61 (2.01)	4.32 (3.06)	5.30 (3.51)
Rated power input Cooling (min-max)	kW	0.595 (0.25 - 1.29)	0.875 (0.25 - 1.46)	1.420 (0.30 - 2.50)	1.710 (0.30 - 2.60)
EER	-	4.20	4.00	3.52	3.51
Energy class Cooling	-	A++			
SEER (average climate)	-	6.20	6.50	6.20	
Working range in Cooling	°C	-10°C / +46°C		-15°C / +46°C	

Performance, heating	Unit				
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)
Heating capacity at -7°C [1]	kW	2.70	3.20	4.20	4.80
Rated power input Heating (min-max)	kW	0.875 (0.25 - 1.50)	1.230 (0.25 - 1.92)	1.570 (0.30 - 2.65)	1.840 (0.30 - 2.65)
COP	-	4.00	3.90	3.82	3.80
Energy class Heating	-	A+			
SCOP (average climate)	-	4.30		4.40	
Working range in Heating	°C	-15°C / +24°C			

Indoor units	Unit	RAI-25RPE	RAI-35RPE	RAI-50RPE	RAI-60RPE
Sound pressure in Cooling mode (EL / L / M / H) [2]	dB(A)	27 / 31 / 35 / 38	27 / 33 / 37 / 40	29 / 35 / 39 / 43	
Sound pressure in Heating mode (EL / L / M / H) [2]	dB(A)	28 / 32 / 36 / 39	28 / 34 / 38 / 41	30 / 36 / 40 / 44	
Sound power in Cooling mode	dB(A)	54		56	
Airflow in Cooling mode (EL / L / M / H)	m³/h	360 / 505 / 590 / 660		390 / 540 / 630 / 720	
Dehumidification	l/h	1.4	1.8	2.8	3.8
Dimensions (H x L x D)	mm	285 x 570 x 570			
Fascia panel dimensions (H x L x D)	mm	30 x 620 x 620			
Net weight	kg	17			
Net weight of fascia panel	kg	2.8			
Condensate outlet diameter (ext)	mm	32			
Condensate pump	-	Included			
Fascia panel part no.	-	P-AP56NAMS	P-AP56NAMS	P-AP56NAMS	P-AP56NAMS
Remote control	-	Not included (SPX-RCKA3 / SPX-RCDB1 / SPX-WKT4)			

Outdoor units	Unit	RAC-25NPE	RAC-35NPE	RAC-50NPE	RAC-60NPE
Sound pressure in Cooling mode [2]	dB(A)	48		50	
Sound power in Cooling mode	dB(A)	61		65	
Airflow (Cooling / Heating)	m³/h	1920 / 1620		2160 / 2160	
Dimensions (H x L x D)	mm	548 x 750 x 288		750 x 850 x 298	
Net weight	kg	32.5		50	
Compressor	-	Rotary			

Refrigeration characteristics	Unit				
Diameter of pipes (Liq / Gas)	inches	1/4" / 3/8"		1/4" / 1/2"	
Initial refrigerant charge	kg	0.86		1.50	
Pre-charged for	m	20		30	
Min. length	m	3			
Max. length / Additional charge	m/g/m	20 / -		30 / -	
Max. level difference (outdoor unit above / outdoor unit below)	m	10 / 10		20 / 20	
Refrigerant	-	R32			

Electrical features	Unit				
Power supply	V/Ph/Hz	230V / 1Ph / 50Hz			
Max. current	A	5.92	6.70	7.21	8.45
Recommended fuse size	A	15		20	
Cable width (EN 60 335-1) [3]	mm²	2 x 1.50 + E		2 x 2.50 + E	
Indoor/outdoor connection (shielded)	mm²	3 x 1.50 + E		3 x 1.50 + E	

[1] Data includes defrosting. To find out the data for your project, refer to our technical catalogues.
[2] Sound pressure measurements were made 1.5 meters 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.

Controls and compatible accessories (see page 161)

Infrared remote control
SPX-RCKA3
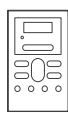
Wired standard remote control
SPX-RCDB1

Other:
- Control box for multi-indoor units SPX-DST1 + SPX-WDST8M
- airCloud Home SPX-WFG02 interface
- Hi-Box AHP-SMB-01
- Hi Kumo gateway for Hi-Box SPX-TAG01
- Single dry contact kit SPX-WDC3

Wired programmable remote control
SPX-WKT4

H-Link box
PSC-6RAD