

RAK Technical Description



Powerful

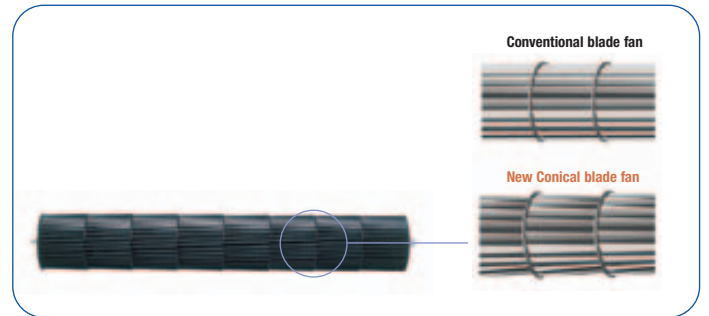
A bigger flap delivers air quickly to every corner of the room and the powerful, sweeping air flow eliminates dead zones and improves the cooling and heating effect.



Wide and Big Air Flap

Silent

The trapezoidal blades cut the air diagonally to minimise air resistance and the conical blade fan ensures a high airflow. With this diagonal air blow, less friction is caused, which reduces noise and improves efficiency. The fan diameter has been increased from the conventional 90mm to 100mm.



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Efficient

The Lambda- shaped heat exchanger's advanced design has a wide suction area and graduation – design grill which both increase the efficiency and performance of the heat exchanger. The wide suction area increases the air intake which enables the unit to adjust the room temperature quickly.

Clean

A washable carbon and anti-bacteria air purifying filter ensures that the micro dust, pollen particles and odours that can collect on filters can be easily removed. The filters can be washed and reused up to 20 times.

Wall mounted

General Data

Model		RAK-25NH4	RAK-35NH4	RAK-50NH4	RAK-60NH4
Power Supply		DC 35V	DC 35V	DC 35V	DC 35V
Nominal Cooling Capacity (min-max)	Kw	2.5(0.9-3.0)	3.5(0.9-4.0)	5.0(0.9-5.2)	6.3(0.9-6.5)
Nominal Heating Capacity (min-max)	Kw	3.5(0.9-5.0)	4.8(0.9-6.6)	6.7(0.9-8.1)	7.3(0.9-9.8)
Sound Pressure Level (Overall scale)					
Cooling	dBA	39/32/26/23	42/37/27/26	47/39/28/24	48/42/33/27
Heating	dBA	40/36/32/26	42/39/36/26	47/39/34/27	48/42/33/33
Outer Dimensions (Net/(Carton))					
Height	mm	285(338)	285(338)	285(338)	295(271)
Width	mm	860(888)	860(888)	860(888)	1030(1100)
Depth	mm	183(279)	183(279)	183(279)	183(368)
Net Weight	kg	9(12)	9(12)	9(12)	12(17)
Refrigerant		R410a	R410a	R410a	R410a
Flow Control		-	-	-	-
Indoor Fan					
Air Flow Rate Cooling	m³/min	8.0/7.3/6.4	10.5/9.7/7.8	13.5/12.5/11.3	13.5/12.5/11.3
Air Flow Rate Heating	m³/min	8.0/7.3/6.4	10.5/9.7/7.8	13.5/12.5/11.3	13.5/12.5/11.3
Refrigerant Piping					
Liquid Line	mm(in.)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)
Gas Line	mm(in.)	9.52 (3/8)	9.52 (3/8)	12.7 (1/2)	12.7 (1/2)
Interconnection Wires	pcs	3	3	3	3
Auto Restart by Previous Mode		Yes	Yes	Yes	Yes
Auto Changeover		Yes	Yes	Yes	Yes
LED Self Diagnosis		Yes	Yes	Yes	Yes
Air Purifying Filter Type		SPX-CFH5	SPX-CFH5	SPX-CFH5	SPX-CFH5
Remote Control Timer	Hr	24	24	24	24

Refer to combination tables for more information

NOTES:

Cooling Operation Conditions

Indoor Air Inlet Temperature: 27 °C DB
19 °C WB
Outdoor Air Inlet Temperature: 35 °C DB

Heating Capacity Conditions

Indoor Air Inlet Temperature: 20 °C DB
Outdoor Air Inlet Temperature: 7 °C DB
6 °C WB

Piping Length: 7.5 meters

Piping Lift: 0 meters

Sound Pressure Level Measurement Distance:

1m from discharge grille
0.8m beneath the unit's height centre