

HITACHI

airHome 500

**Cooling Only
Wall Mounted Systems**

Cooling & Heating



RAK-DJ50PCAT (5kW)



WARRANTY



The system for people who don't want to think about air conditioning.



Peace of Mind with a 6 Year Warranty

The airHome wall mounted range comes with a comprehensive **6 year warranty** on parts and labour, so you can be assured of the reliability and quality of your airHome system.



Award-winning Design ideal for all types of interiors

airHome was designed according to Hitachi's Duality Design philosophy, combining superior engineering and subtle aesthetics to create Living Harmony within your home.



reddot winner 2022

No need to think about it

Effortless comfort: airHome provides the right operation for each moment of your home life

[Go to pg. 6 - 7](#)

Operation with airCloud Go app for your phone/tablet

[Go to pg. 8](#)

Easy control

[Go to pg. 9](#)

Helps to clean & maintain itself year after year

Quality you would expect from a Japanese brand

[Go to pg. 10 - 11](#)

Discover FrostWash and Mould Guard Function exclusive Hitachi self-cleaning technologies

[Go to pg. 12 - 13](#)

Helps to purify your indoor air & remove odours

Improve Indoor Air Quality with 3 different air purification technologies including ViroSense Z1 filter: effective at neutralising most viruses and bacteria that pass through the filter.

[Go to pg. 16-17](#)

Selection guide & specs

View specifications of the **airHome** 500 range

[Go to pg. 18 - 19](#)



No need to think about it



airHome provides effortless comfort.

Work, play, relax, sleep. No matter your lifestyle, airHome automatically adapts to your routine.



No need to think about it

Cleans & maintains itself

Purifies your indoor air

See action guide & spec

Effortless comfort

Automatically follows your routine

airHome air conditioners adapt to each moment of your home life. With intelligent sensing features, airHome always provides the right air for you.

SleepSense: your sleep companion

Before you sleep

Activate SleepSense in one touch on your remote controller.

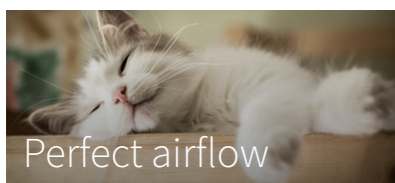
When you wake up in the morning

SleepSense detects when you're up, and it switches back to pre-sleep operation for a fresh start to the day.

During the night

SleepSense monitors your sleep. Once you fall asleep, SleepSense gradually reduces the air conditioning operation (change of temperature¹ + quieter operation) to create the ideal conditions for deep sleep.

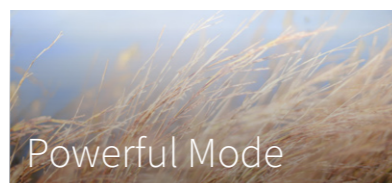
More features providing adaptive comfort



Perfect airflow

Suitable for large rooms

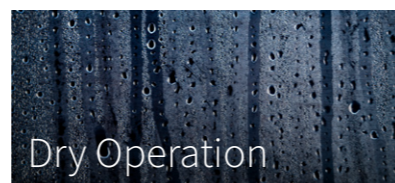
Distributes air effectively across any room in your house, reaching up to 24metres away² and automatically distributing air across a 105° by 60° 3-dimensional arc



Powerful Mode

Activate the 20-minute powerful mode

For when you need rapid cooling



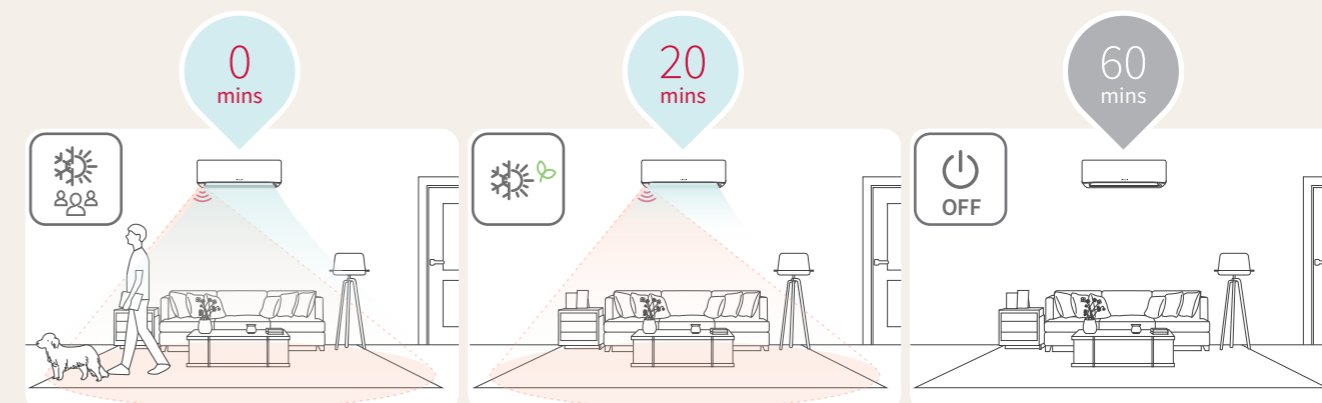
Dry Operation

For humid days

Dry operation dehumidifies the room efficiently and silently

Smart Eco cuts air conditioning when the room is vacant

With Smart Eco, indoor units will automatically adopt energy-saving mode when you're out of the room. You don't need to remember to turn your AC off; **Smart Eco does it for you.**



When you leave the room



Initial Operation

Smart Eco detects the room is now vacant, the cooling operation continues as you've set it for the next 20min.

After 20min of vacancy



Energy-Saving Operation

airHome automatically modifies the set temperature higher to reduce the power consumption.

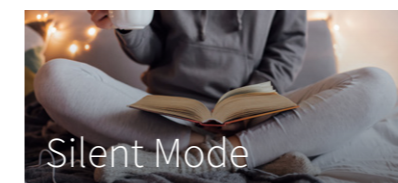
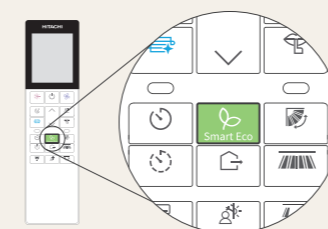
When you return later to the room, human (or pet) presence is detected again and the AC returns to initial operation.

Optional: after 60min of vacancy



Auto-Off Option

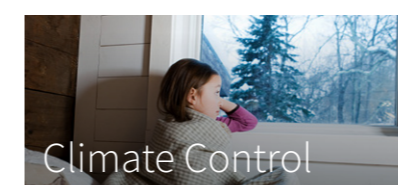
Smart Eco automatically turns off the air conditioner to stop consuming energy.



Silent Mode

So quiet, you'll forget it's on!

Thanks to the unique wave - blade fan, the air conditioning will run quieter.



Climate Control

Ensures year-round comfort control

Cooling operation up to +46°C outside.



CHOICE Recommended

The airHome 500 5kW model (RAK-DJ50PCAT) is endorsed as a **CHOICE Recommended** product.



1 +2°C in cooling mode.

2 Airflow distance will vary according to fan speed setting, environmental factors and model capacity.

Claim refers to models RAK-DJ50PCAT model on high fan speed creating an air velocity of 0.15m/s or more according to anemometer tests.

Effortless comfort with hassle-free controls

Control your AC from anywhere

All **airHome** air conditioners can connect to our next-generation airCloud app via home wifi¹.

Check and control your air conditioner's status from wherever you are, whenever you need.

You will never worry if you've left the AC on ever again.



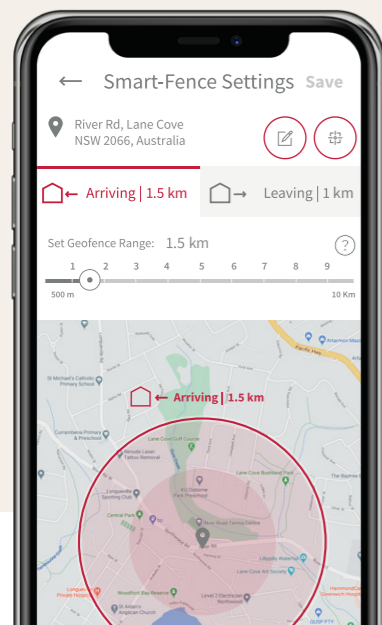
airCloud Go app



airCloud Go: automated comfort as you come & go

Link your phone's location to your air conditioner with **airCloud** Go app's Smart-Fence function. Once you are within a preset distance from your home, your **airHome** air conditioner will automatically start to cool to your ideal temperature for when you arrive.

As you leave home, you can set your air conditioner to automatically turn off or switch to a more energy-efficient temperature.



More **airCloud** Go features for better indoor climate control from the convenience of your phone



Turn the air conditioner on/off and set the desired temperature, fan speed and airflow direction.



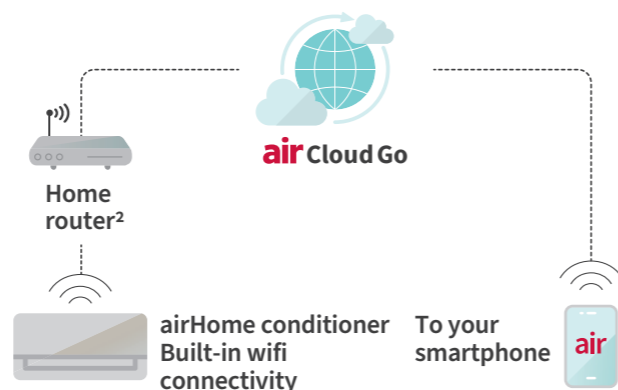
Program your air conditioning operation with the Simple Timer and/or Weekly Timer.



Pair your account with unlimited air conditioners.



Invite up to 20 users to manage each air conditioner.



Voice control with Alexa and Google Home

Connect your **airHome** air conditioner² to your smart speaker for hands-free operation³.



Alexa, decrease temperature by 3°C

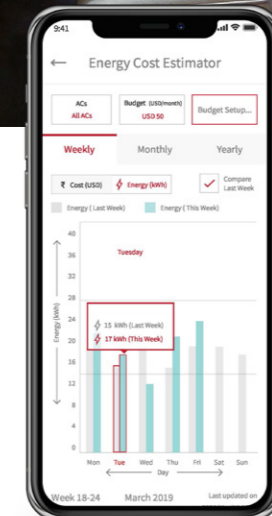
-3°C

Cleans & maintains itself

airCloud Go energy cost estimator

Track AC usage in your home and preview estimates of your daily, weekly, monthly and/or annual expenditure.

You can also set a budget limit and receive notifications as you near this threshold.



A brand-new design remote controller

With a more intuitive controller than ever before, controlling your air conditioner has never been easier.



New 'My Mode' button

The new 'My Mode' button enables you to save up to 3 combinations of your favorite settings (operation mode, set temperature, fan speed) so you can recreate your preferred climate in one touch.



0.5°C temperature control

Set the temperature by 0.5°C increments for more precise comfort.



airHome 500 remote controller

- 1 Access to a domestic wifi network is necessary to pair airHome to airCloud Go app.
- 2 Required router supporting 2.4GHz band.
- 3 Amazon Echo supports English, French, Italian, Spanish, German
Google Home supports English, French, Italian, Spanish, German, Portuguese-BR, Dutch, Danish, Swedish, Thailand, Chinese(Traditional), Indonesia.

Quality you would expect from a Japanese brand



The right choice for a worry-free future.

airHome is engineered to provide long lasting performance, thanks to exclusive Hitachi self-cleaning technologies.



WARRANTY

Peace of Mind with a 6 Year Warranty

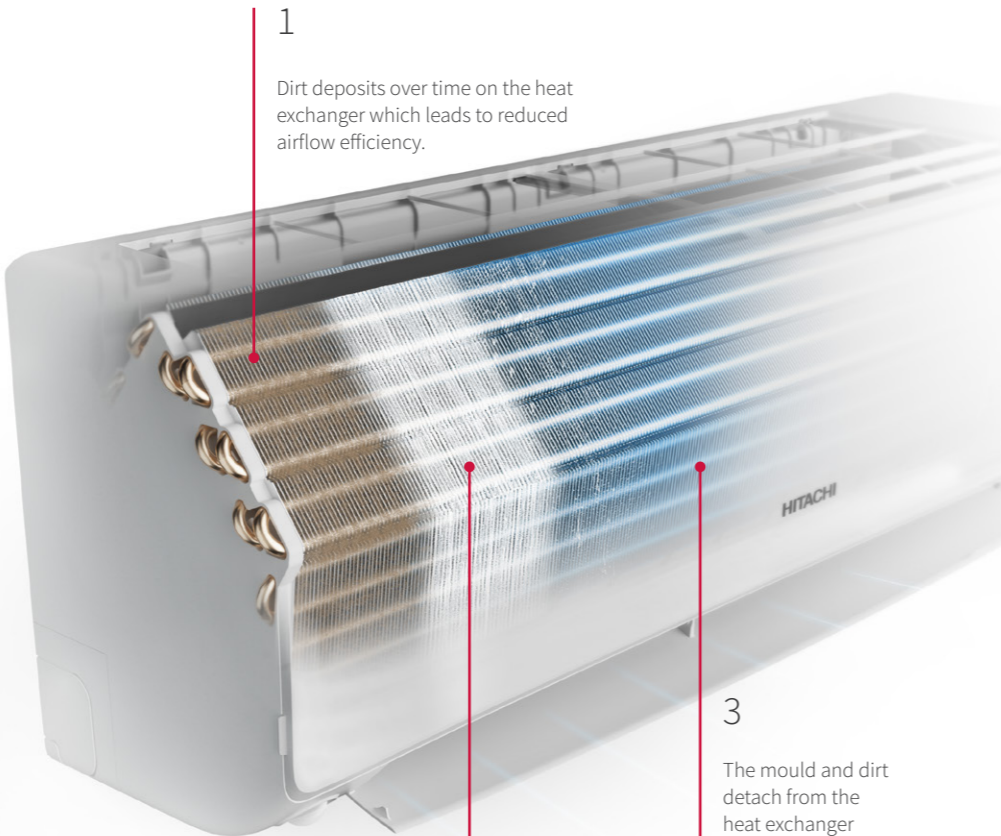
The **airHome** wall mounted range comes with a comprehensive **6 year warranty** on parts and labour, so you can be assured of the reliability and quality of your **airHome** system.

Helps to clean & maintain itself year after year



FrostWash: Better at maintaining peak performance¹

Over time, dust and dirt build up in your AC making it less powerful. Hitachi FrostWash technology continuously maintains the performance of your AC by removing dust and dirt with a unique technology.



1

Dirt deposits over time on the heat exchanger which leads to reduced airflow efficiency.

2

FrostWash: freeze the heat exchanger. The frost captures the dirt.

3

The mould and dirt detach from the heat exchanger as the frost melts.

4

The dirt and mould are washed away together with the condensate.

FrostWash double benefits:

Preserved performance

Our tests show that systems with FrostWash are **better at maintaining airflow performance** than those without this technology^{1,2}

Sanitising effects

99%

Viruses eliminated²

99%

Bacteria eliminated³

95%

Mould reduction⁴

To learn more about air purification features

Go to pg. 16 >

Bonus

Let FrostWash work when you're absent

- You can pre-set FrostWash to activate automatically when no one is in the room with motion sensor.
- airCloud Go app includes the control of FrostWash, so you can turn it on remotely with your phone.

Mould guard function: Minimises mould formation & bad odours

Whenever your air conditioner is switched off, the mould guard function continues to run the fan to blow air through the internal components to dry them and prevent the primary cause of bad odours.

Easy filter cleaning process

Like all air conditioners, airHome's pre-filter can get clogged from the accumulation of dust. A small reminder lights up on your air conditioner when it's time to clean the filter.

It's simple to wash thanks to the easy to remove panel and washable filter material.



1 Two identical units were tested for comparison; with and without FrostWash. Test chamber simulated approx. 2 years of dust and oil build up which may be experienced in a typical home environment. Airflow performance was tested before and after FrostWash being in the chamber. Unit without FrostWash experienced an 18% drop in airflow performance. Unit with FrostWash experienced only 6% performance drop. Tested at Johnson Controls-Hitachi Tochigi factory, Japan Nov/Dec 2021.

2 Claim refers to the effect of FrostWash technology which showed 99% reduction of virus particles on the heat exchanger tested at Kitasato Research Center of Environmental Science.

3 Claim refers to the effect of FrostWash technology which showed 99% reduction of bacteria on the heat exchanger tested at Kitasato Research Center of Environmental Science Japan.

4 Tested at Japan Textile Product Quality and Technology Center. Test method: ISO 18184 : 2019 "Textiles -- Determination of antiviral activity of textile products." using SARS-CoV-2 NIID isolated variant: JPN/TY/WK-521.

Long-lasting performance for worry-free comfort

Hitachi Cooling & Heating air conditioners are built to last.

Packed with safety & reliability features, airHome air conditioners are engineered to perform through the years.

Complete SafeGuard system:

7 features to preserve your air conditioner equipment and extend its lifespan

Electric Risk Prevention

- 1 Hitachi **dual-strong PCB** can withstand voltage surges up to AC420V.
- 2 The **Power-Safe** where the available power supply is limited, the Power-Safe setting lowers the maximum running current to allow your airHome air conditioner to safely run without tripping the circuit breaker.
- 3 In the event of a power failure, the **3-Minute Delay Circuit** prevents damage caused by multiple fast restarts.

Physical Risk SafeGuard

- 4 **Anti-Corrosion Coated Fins** protects against long-term damage caused by water, air, salt, and humid environments.



- 6 **Anti-Rust Paint** helps to protect the outdoor unit from rust and the unsightly peeling of paint.



- 5 The **valve cover** protects the outdoor unit from water damage caused by condensation or leaking, channeling water safely away from the unit.



- 7 The electronic components are covered by a **Fireproof Electrical Enclosure** to drastically reduce the risk of fire spreading in the event of a fault.



Automatic Fan Reverse on outdoor unit

To help remove any dust and small debris from the outdoor unit heat exchanger, the outdoor unit will briefly reverse spin the fan after you switch your AC unit off, helping maintain the performance of your system.



Safety Protection



Reliability



Fire Prevention



Water Droplet Prevention



Compressor Control



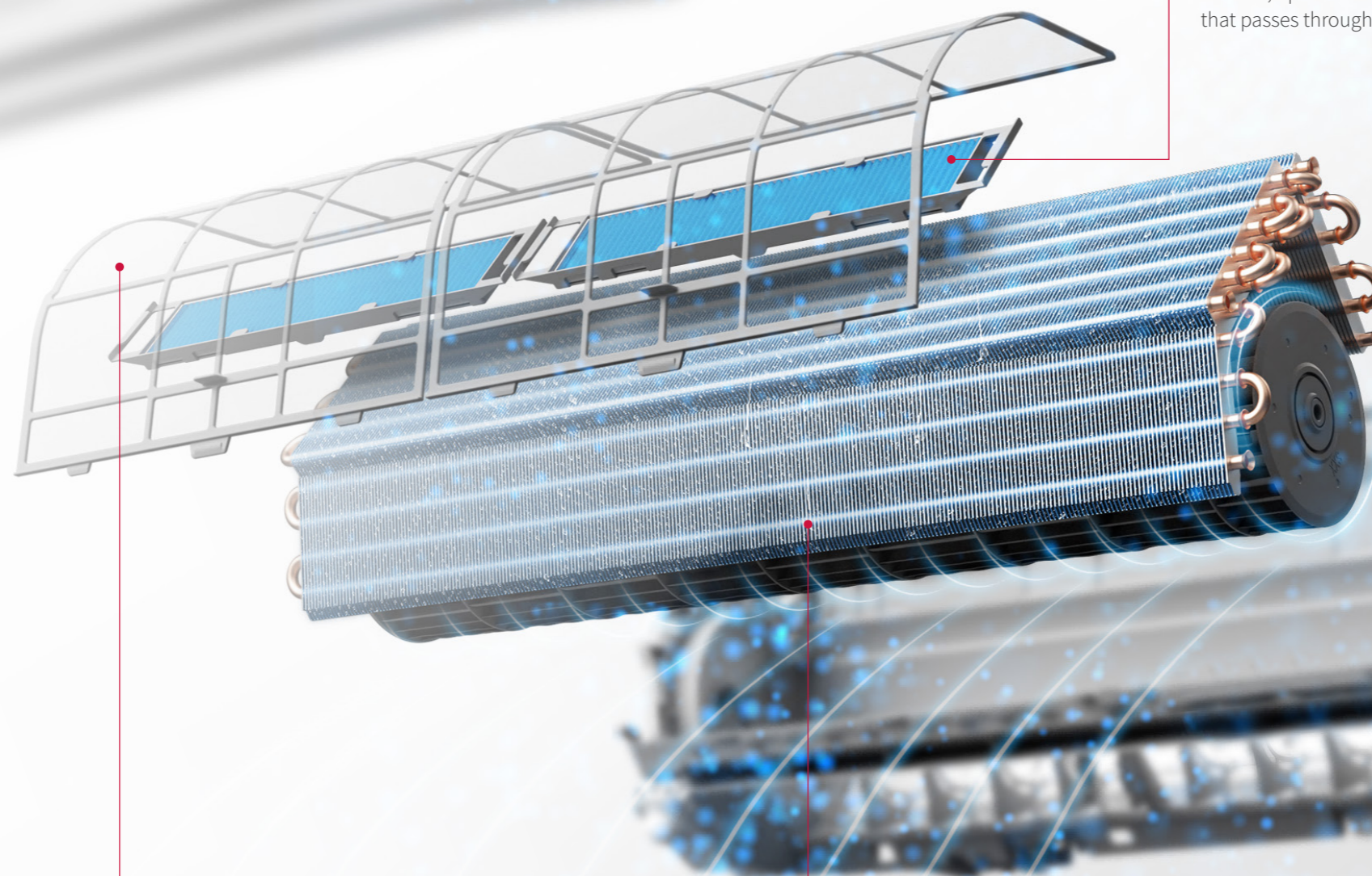
Purifies your air



Not only does airHome keep you comfy,
but it also improves
your Indoor Air Quality.

Combining up to 3 different air purification technologies for enhanced effectiveness against pollutants including certain viruses, allergens, bacteria and even odours.

Take a deep breath with the peace of mind of cleaner and purer air.



Nano-titanium pre-filter

Hitachi's unique **Nano Titanium Pre-Filter** features a coating of Nano Titanium that resolves adhering microbes and odours. Due to its sleek surface, even dust containing grease can be easily wiped off without using water.

FrostWash™

Heat exchanger cleaner automatically cleans the heat exchanger reducing the build up of remaining pollutants, mould, viruses and bacteria.

[Go to pg. 12](#) >

ViroSense Z1 filter

airHome embeds an extra filter to help purify your air. The **ViroSense Z1 filter** is coated with zinc pyrithion which actively combats airborne contaminants¹ neutralising most viruses and bacteria with up to 99.0% effectiveness on viruses², up to 99.0% effectiveness on bacteria³ from the air that passes through the filter.

1 ViroSense filter is expected to be effective during 12months.
Tested at Japan Textile Product Quality and Technology Center.
Test method: ISO 18184 : 2019 "Textiles -- Determination of antiviral activity of textile products." using SARS-CoV-2 NIID isolated variant: JPN/TY/WK-521.

2 ViroSense Z1 filter shows 99.9% of effectiveness against SARS-CoV-2 NIID isolated variant: JPN/TY/WK-521 and 99.0% effectiveness against Influenza A Virus (H3N2) tested at Japan Textile Product Quality and Technology Center using ISO18184:2019 method.

3 Tested at Nissenken Quality Evaluation Center. Test method : JIS L1902 : 2015 Bacterial Solution Absorption Method (Quantitative Test) using Staphylococcus aureus NBRC12732 and Escherichia coli NBRC3301.

Features & Options

airHome 500
(Cooling Only)

Modes by Sensor	Motion sensor	●	Control	Built-in wi-fi	●
	SleepSense - cool	●		Easy-to-use wireless backlit remote controller	●
	Eco mode with motion sensor	●		Full dot wired remote controller	■
	Save mode (max current switching)	●		0.5°C temperature control	●
	Auto off mode with motion sensor	●		DRED control/adaptor	■
Air Purification & Clean	Automatic FrostWash	●		H-Link adapter	■
	Manual FrostWash	●		Run/alarm signal kit	■
	Mould Guard	●		24 Hr on/off timer	●
	Outdoor unit Fan reverse (auto)	●		Weekly timer (with airCloud Go)	●
	Nano-titanium stainless steel pre-filter	●		Simple timer - on off	●
Comfort	ViroSense anti virus filter	●		SmartFence (with airCloud Go)	●
	Powerful mode	●		Energy usage tracking (with airCloud Go)	●
	Silent mode	●		Voice control - with airCloud Go (through Google/Amazon Alexa)	●
	Dry mode	●		Info button (with airCloud Go)	●
	My mode (personalised mode)	●		Auto restart	●
	Auto fan speed	●	Convenience	Filter sign	●
	Fan only mode	●		Remote Start/Stop	■
	Up-down auto swing	●		Fireproof electrical enclosure	●
	Left-right auto swing	●	Reliability	PCB surge protection	●
	Long airflow	●		Anti-corrosion treated outdoor heat exchanger	●
				Anti-rust painted outdoor casing	●
				3-Minute delay circuit	●

● Standard

■ Optional Accessory



RAK-DJ25PCAT - 2.5kW Model
RAK-DJ35PCAT - 3.5kW Model



RAK-DJ50PCAT - 5.0kW Model
RAK-DJ60PCAT - 6.0kW Model



RAK-DJ70PCAT - 7.0kW Model

Specifications

airHome 500
(Cooling Only)



Series			airHome 500 (Cooling only)					
Model	Indoor Unit		RAK-DJ25PCAT	RAK-DJ35PCAT	RAK-DJ50PCAT	RAK-DJ60PCAT	RAK-DJ70PCAT	
	Outdoor Unit		RAC-DJ25PCAT	RAC-DJ35PCAT	RAC-DJ50PCAT	RAC-DJ60PCAT	RAC-DJ70PCAT	
Capacity & Rating	Rated Capacity (Min. - Max.)	Cooling kW	2.5 (1.0 - 3.6)	3.5 (1.0 - 4.1)	5.0 (1.8 - 6.4)	6.0 (1.8- 6.8)	7.0 (2.5 - 8.3)	
	Rated Cooling Power Input (Min. - Max.)	Cooling kW	0.49 (0.25 ~ 1.29)	0.84 (0.25 ~ 1.46)	1.16 (0.50 ~ 3.05)	1.57 (0.50 ~ 3.05)	2.04 (0.50 ~ 3.50)	
	Dehumidification	l / h	1.4	1.6	2.0	2.8	4.8	
	Zone Energy Efficiency Star Rating	Hot Zone cooling	6.5	5.5	5.0	4.0	3.5	
		Mixed Zone cooling	5.5	5.0	4.5	4.0	3.5	
		Cold Zone cooling	6.0	5.0	4.5	4.0	3.5	
		AEER	5.05	4.12	4.29	3.81	3.42	
Technical Specifications	Power Supply	V / Phase / Hz	220-240V / 1Ph / 50Hz					
	Rated Running Current	Cooling Amps	2.77	4.26	5.12	6.92	9.00	
	Maximum Current	Amps	5.10	6.20	13.50	13.50	15.00	
	Interconnecting Wire		3+EARTH					
	Power supply To		outdoor unit					
	Operation Range	Cooling °C	-10°C ~ 46°C					
	Diameter of Pipes	Liquid / Gas mm	6.35 / 9.52	6.35 / 9.52	6.35 / 12.70	6.35 / 12.70	6.35 / 12.70	
	Refrigerant	Type	R32					
		Factory pre-charged length m	20	20	30	30	30	
	Min. / Max. / Lift Pipe Length	m	3 / 20 / 15	3 / 20 / 15	3 / 30 / 20	3 / 30 / 20	3 / 30 / 20	
	Indoor Unit	Dimension (WxHxD)	mm	780 × 280 × 222	780 × 280 × 222	950 x 294 x 230	950 x 294 x 230	1050 × 294 × 250
		Weight	kg	8.5	8.5	11	11	12.2
		Fan Speeds		Super High / High / Medium / Low / Quiet (+ Auto)				
		Air Flow (cooling)	l / s	161/124/87/56/53	174/139/111/69/59	261/235/199/142/120	279/252/212/152/128	320/288/243/182/150
		Noise (cooling)	dB(A)	40 / 38 / 33 / 24 / 20	43 / 40 / 36 / 26 / 22	46 / 44 / 40 / 34 / 30	48 / 45 / 42 / 34 / 30	48 / 46 / 42 / 36 / 32
	Outdoor Unit	Dimensions (WxHxD)	mm	759 × 548 × 288	759 × 548 × 288	850 × 800 × 298	850 × 800 × 298	850 × 800 × 298
Weight		kg	30	30	46	46	46	
Sound Power		dB(A)	60	61	64	64	65	
Sound Pressure		dB(A)	46	47	52	52	54	

Notes:

The Rated Capacity, Power Input and Running Current are measured under T1 (cooling) conditions.

Cooling: Indoor temp: 27°CDB / 19°CWB
Outdoor temp: 35°CDB / 24°CWB

The indoor and outdoor unit sound levels are measured in an anechoic chamber:-
- 1 metre from the air outlet grille
- 0.8 metre beneath indoor height centre

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WARRANTY

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