

Air Conditioner

HITACHI

Inspire the Next



ALL DC INVERTER × SCENE CAMERA Air Sleep

Eco-technologies ensure energy-saving and eliminate harmful materials while new high-performance features enhance everyday life!

ALL DC INVERTER

SCENE CAMERA

Air Sleep

*Advanced Technology
Specialized for Sleep Support*

Advanced Scene Camera technology
smartly creates the best sleeping and
daytime environment ever provided by an
air conditioner.





ALL DC INVERTER SCENE CAMERA

Air Sleep

Using Thermo and Image Cameras, Scene Camera Twin intelligently "sees" room temperature distribution, absolute location and level of activity of individuals to realize fully automatic operation providing comfort for everyone in various scenes of life. Of course, it saves energy too.



SCENE CAM

Ec
&
Com

Thermo Camera



Wall temperature

Temperature around a person



Bed area ambient temperature



Floor temperature



Around 27°C

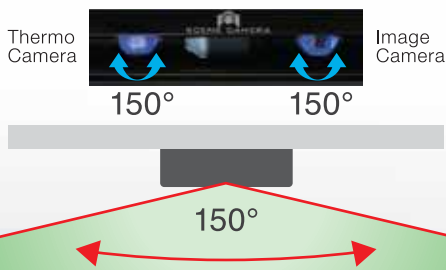
Around 30°C

Thermal Distribution Monitoring

SCENE CAMERA TWIN

Wide Detection

Thermo Camera and an Image Camera swing widely left and right to detect human and room situations.



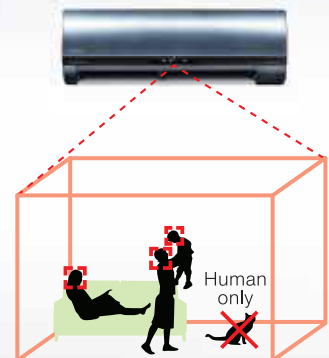
Detect Absolute Location

Picture Process Engine



Thermopile CMOS Image Sensor

Since the Scene Camera Twin can actually "see", it can detect ABSOLUTE LOCATION of people in the room.



SCENE CAMERA TWIN

ECO & COMFORT



Room size

Sunlight intensity



Image Camera

Far from air conditioner

Near air conditioner



Around 2.5m



Low activity

High activity



Around 6m



Asleep/Awake

*Air Conditioner will not send cool air to two directions at the same time.

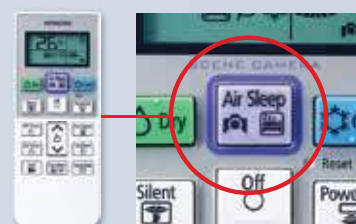
<Image>

Human Activity and Absolute Position Monitoring

Detectable Contents	
Thermo Camera	<ul style="list-style-type: none"> Floor, wall temperature Temperature around a person Bed area temperature Heat source
Image Camera	<ul style="list-style-type: none"> Number of people Location of individuals Activity amount of individuals Absence/presence of people Sunlight intensity Distance from air conditioner Room size

One-Touch Full Automatic Operation

Just press the SCENE CAMERA Air Sleep button to activate Scene Camera Twin and enjoy fully automatic operation for scene-by-scene comfort and efficiency.



Advanced Sleep Support for Everyone in Every Scene of Sleep

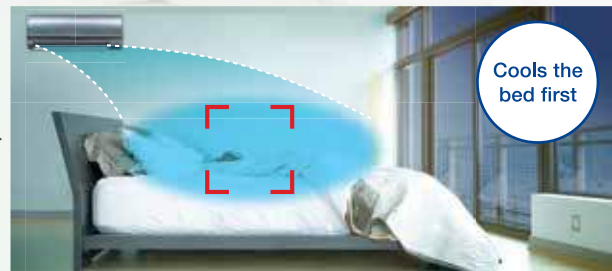


Scene Camera Twin and the Air Sleep Sensor watch your sleep condition throughout the night and automatically adjust cooling to the optimum level for various stages of sleep to assure good sleep.

Pre-Sleep Stage –Assists Smooth Dive into Sleep–

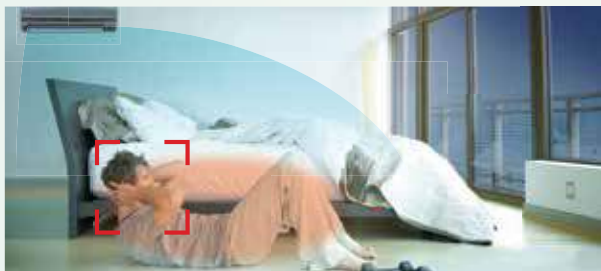
Cools the bed first

Scene Camera Twin detects the temperature by your bed and automatically pre-cools the area so that it is just right when you go to bed and sleep.

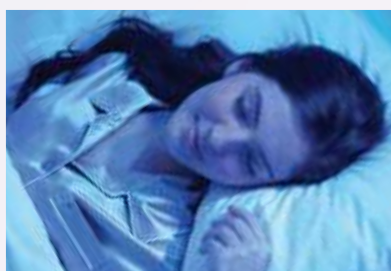


Cools your body when it gets hot

Scene Camera Twin checks each person's condition and automatically adjusts room temperature and airflow direction for optimum comfort.



Awakening Stage –Assists a Refreshing Awakening–



Waking up with a comfortable breeze

When you wake up, Scene Camera Twin will detect it and automatically send comfortable air to you to assist your refreshing awakening.

Smart Energy Saving Comfort for Every Person in Every Scene



When set to the Eco Mode, Scene Camera Twin quickly detects energy wasting, and smartly cools with minimum energy for just the right level of comfort in every scene of daily life.



Location and Activity Level of Individuals

Scene Camera Twin detects and considers the location (far from or near to the air conditioner) and the activity level of each person in the room, and automatically makes adjustments to provide the most comfortable, energy saving cooling possible.



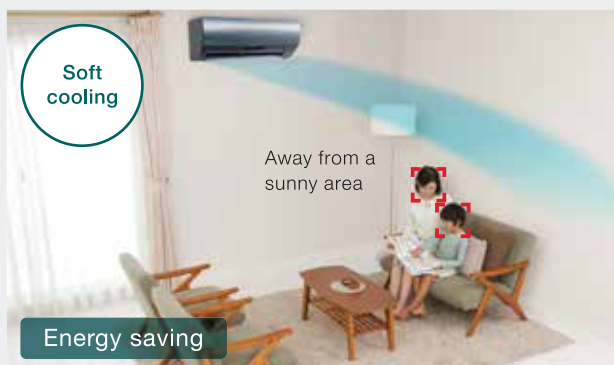
Automatically adjusts to a comfortable set temperature and suitable fan speed taking into consideration the activity level and location of each person.



When two or more people are in the room, the temperature is set to match the average amount of activity. Cool air is sent for a longer period of time towards people with a higher activity level.

Sunny Areas

Scene Camera Twin intelligently considers sunny areas, the locations of people and their level of activity, and automatically makes adjustments to provide the most comfortable, energy saving cooling possible.



Softly cools people away from sunny areas.

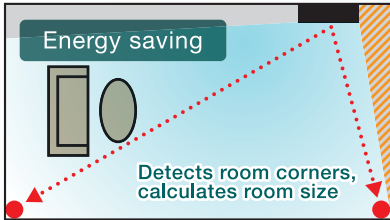


When the activity level of individuals is the same, cool air is sent for a longer time to people close to the sunny area.



Room Size Search

Scene Camera Twin precisely checks the room size and smartly adjusts cooling power to a suitable level for the room to save energy.



Heat Source Search

When the Thermo Camera finds a heat source, cool air is automatically sent to the surrounding area for comfort.



Number of People in the Room

Scene Camera Twin detects the number of people in the room at all times, and adjusts the airflow and temperature to match slight temperature increases and decreases in room temperature due to human heat generation.

When five people are together



Comfortable cooling with a wide swing to cover everyone in the room.

When only two people remain in the room



Automatically switches to soft cooling after pre-estimating room temperature changes when the number of people present decreases. Airflow swing is also limited to the area where the people are.

When no one is in the room

Auto Save



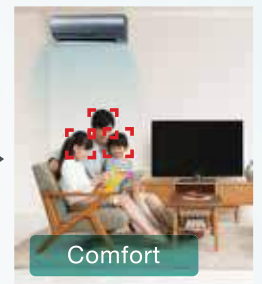
Automatically switches to soft cooling after 10 min of absence to save energy.

Auto Off



When Auto Off is set, the air conditioner automatically switches off after 1 hour of absence.

Auto On

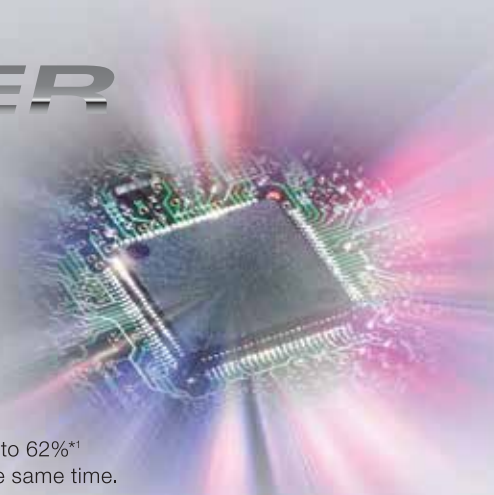


When Auto On is set, the air conditioner automatically switches on when people are detected.

*If you leave the air conditioner operating when you are not at home, please cancel the Auto Off setting. Do not use the Auto Off setting in rooms occupied by people who cannot operate the air conditioner themselves such as infants, children, the elderly and individuals who are ill or physically impaired.

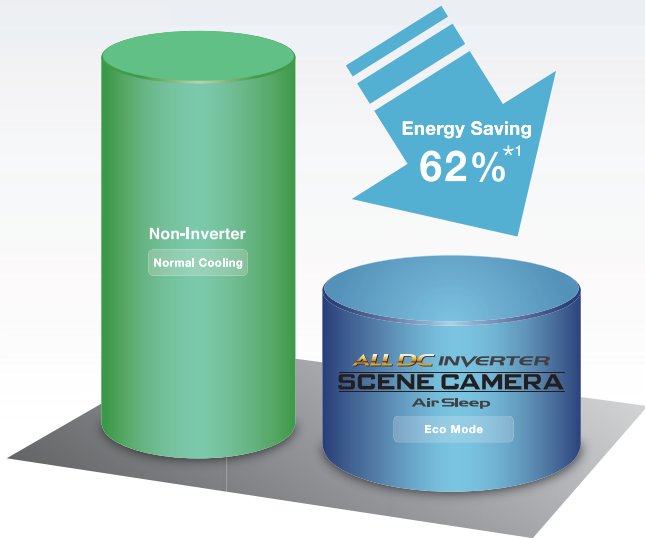
ALL DC INVERTER

Hitachi's All DC Inverter newly applies the original Smart Vector System. Going beyond energy saving, the Smart Vector System achieves top class cooling capacity and reliable operation even under unstable power conditions.



Energy Saving

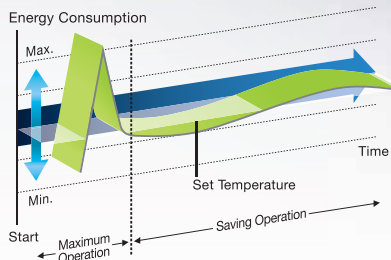
A combination of the All DC Inverter and Sence Camera Twin can cut energy consumption by up to 62%*¹ compared to non-inverter models! So you can stay comfortable overnight, and save energy at the same time.



*¹ RAS-VX13CF (Eco Mode) compared with a Hitachi 1.5HP non-inverter model (Cooling Mode). Power consumption based on cumulative power consumption after 8 hours of operation. Room temperature at start: 35°C, Set temperature: 25°C, Fan Speed: Auto.

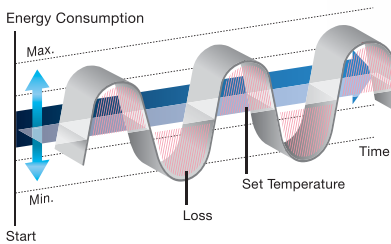
Testing condition:
Three people in the room. Level of activity at 2.5m from the indoor unit estimated to be 1.0 metabolic equivalents (reading, etc.). Three people in separate locations in the room during the daytime with the curtains drawn closed to cut the amount of sunlight to a low level. Ambient temperature lower than the set temperature.

Inverter



With intelligent inverter technology, an air conditioner cools with maximum capacity at start-up, then automatically slows down and operates at minimum suitable capacity to maintain room temperature at a comfortable level.

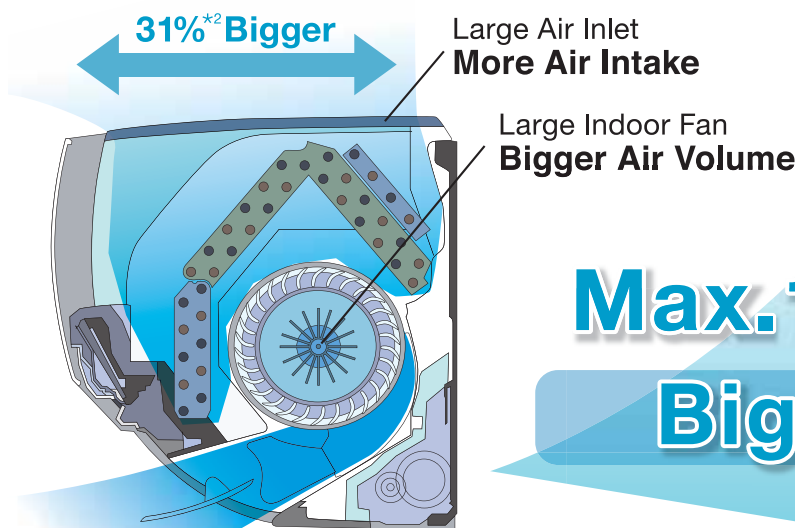
Non-Inverter



Non-inverter models can only operate with simple on-off controls. Trying to maintain temperature by repeatedly switching power on and off consumes much more electricity and results in bigger temperature fluctuations.

Powerful Cooling

The wide air inlet and the large diameter indoor fan enable top class cooling capacity and big air volume to make you feel more comfortable.



Max. 12,000 BTU/h! *³
Big Air Volume

*² RAS-VX10CF/VX13CF compared to RAS-SX10CD/SX13CD/SD10CD/SD13CD.
*³ Max. cooling capacity of RAS-VX10CF.

Low Standby Energy

Electricity is continuously consumed even when the air conditioner is switched off but Hitachi's new standby energy saving system can reduce power consumption by 82%*4 when not in use.

Simulation



0.9W Standby Energy

82%*4
Reduced



*4 RAS-VX10CF/VX13CF standby energy compared to RAS-SX10CD/SX13CD/SD10CD/SD13CD.

Smart Vector System

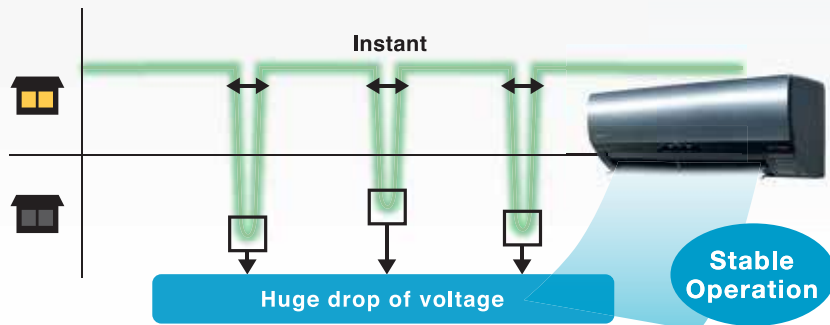


Reliable Operation

Case 1

Instantaneous Power Failure: Non Stop Operation

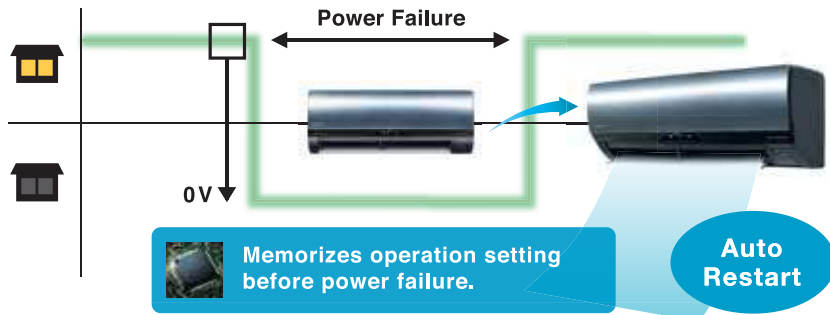
If there's an instantaneous power failure (sudden voltage fluctuation), the Smart Vector System detects the voltage fluctuation to prevent the air conditioner from stopping due to a current surge.



Case 2

Power Failure: Auto Restart at Previous Setting

If there's a power blackout, a microcomputer in the Smart Vector System memorizes the setting at the time of the blackout, and automatically restarts operation at the same setting after power recovery.

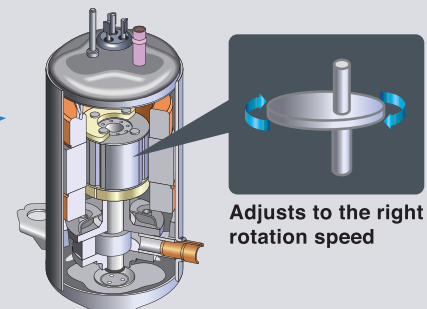
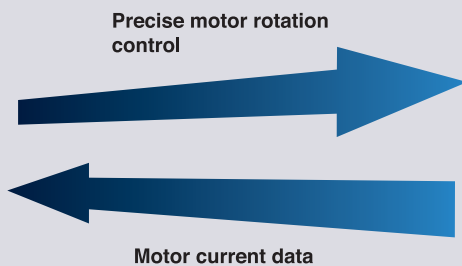


What is so Special about the Smart Vector System?

The Smart Vector System features a special microcomputer pre-installed with compressor characteristics data. Thanks to this, the system not only monitors compressor behavior and current flow conditions, but also adjusts compressor rotation speed at all times. This enables smooth compressor operation without loss, resulting in stable operation and high cooling capacity.



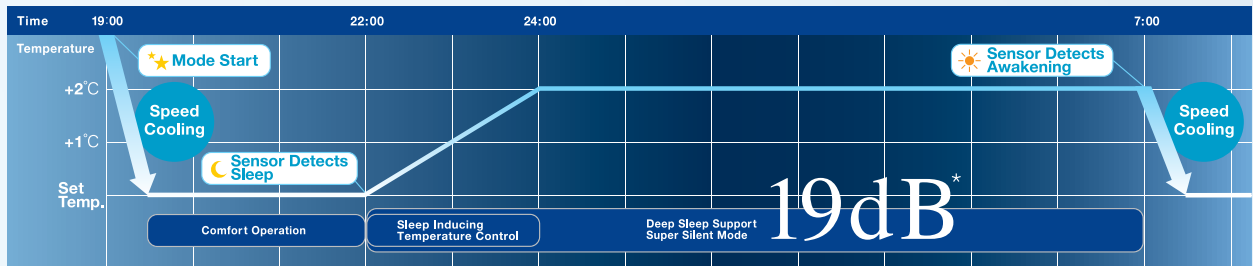
Smart Vector
Microcomputer





Sound Sleep Stage –Upgrades the Quality of Sleep– Air Sleep Mode

Once the air conditioner recognizes that you have fallen asleep, it automatically adjusts the room temperature to best assure a good sleep, as well as switching to the 19dB* Silent Mode.



*Minimum operating noise of 1.0HP and 1.5HP Air Sleep Inverter models.

Smart Swing for Sleep

On top of controlling room temperature for a good sleep with the Air Sleep Mode, Scene Camera continuously checks your activity level, such as rollovers, and the temperature of the area where you sleep. By doing so, it can smartly adjust air direction to suite each person's sleeping condition.



Controls room temperature with the Air Sleep Mode for a good sleep.

When a person is uncomfortably rolling over and the temperature is high, cool air is automatically delivered for a certain time to provide comfortable cooling.

Super Silent Wave Blade Indoor Fan

Silent operation during sleep hours is assured by Hitachi's innovative Wave Blade Indoor Fan technology. Each of the fan blades is wave-shaped, which varies the timing of each blade cutting through the air. As a result, annoying wind noise is dramatically reduced for exceptionally quiet operation.



*Minimum operating noise of 1.0HP and 1.5HP Air Sleep Inverter models.



STAINLESS CLEAN System



Antibacterial stainless steel and silver ions are applied inside to keep the air pathways extra hygienic for fresh, healthy, clean air.

Stainless Air Duct

Antibacterial*1

Dust Cut

Stainless Louvre

Antibacterial*1

Dust Cut

Easy to Clean



<Image>

Silver Ion Fan

Antibacterial*1

Nano Titanium Stainless Pre-Filter

Antibacterial*1

Easy to Clean

*1 Tested by Boken Quality Evaluation Institute. Test No. 20214009288-1, 10218327, 022580-1. Test Method Based on JIS Z 2801 Quantitative Test.

Did You Know?

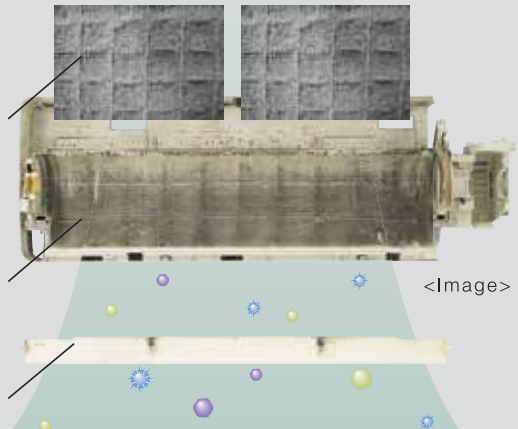
Air conditioners can get very dirty on the inside, and can become home to bacteria and allergens. Hitachi's Stainless Clean applies antibacterial stainless steel inside for a long-lasting, fresher air supply.

Conventional Air Conditioner After 10 Years of Usage

Conventional Filter

Plastic Air Duct

Plastic Louvre

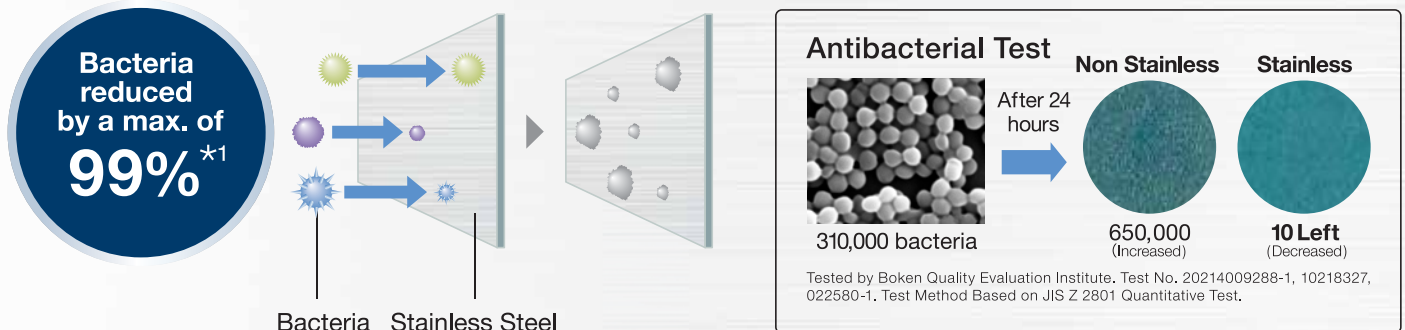


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Hitachi air conditioner released in 1997 (RAS-409GX2).

Antibacterial Sanitizing

When bacteria come into contact with the stainless steel, the metal ions adhere to them and suppress their activity and growth. In this way, bacteria are thoroughly reduced by a maximum of 99%*1.



Dust Cut

Thanks to its sleek surface and non-static properties, more than 50%*2 less dust sticks to stainless steel than to plastic. Which means twice the cleanliness and half the cleaning time.

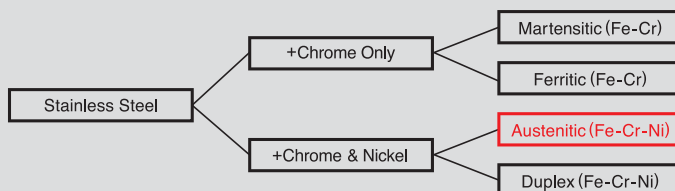


Easy to Clean

A single wipe without water is all that's required to remove dust from the filter. Even dust that contains grease can be easily removed from the sleek surface.

High Quality Stainless Steel

Stainless steel is iron mixed with chromium to provide anti-corrosion properties. The higher the chromium content, the higher the resistance to corrosion. Anti-corrosion effect can be further enhanced by adding nickel to the content. Stainless Clean uses austenitic stainless steel that contains 18% chromium and 8% nickel. Thanks to its reliable quality, austenitic stainless steel is widely used for everything from high class cooking ware to chemical plants where high resistance to corrosion and durability are required.

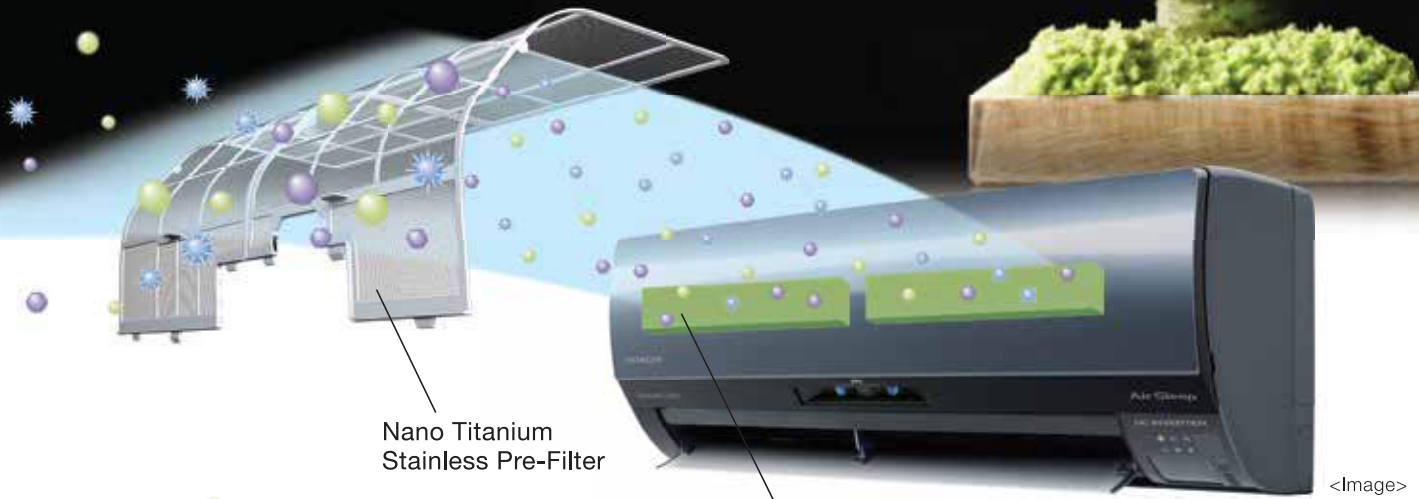


* Applicable to Stainless louvre and air duct.

Nano Titanium Wasabi Air Purifying Filter



The filter is packed with a hybrid coating of Nano Titanium and wasabi solution which provides a powerful antibacterial, anti-mold, anti-allergen and deodorizing effect.



Nano Titanium Stainless Pre-Filter

Nano Titanium Wasabi Air Purifying Filter

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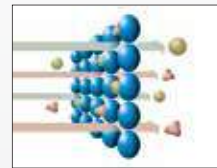


Powerful Wasabi Sanitizing

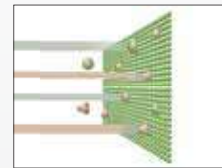
It may seem surprising but the wasabi often seen with sushi has a powerful sanitizing effect! Hitachi's unique Nano Titanium Wasabi Air Purifying Filter is coated with wasabi-modified Nano Titanium particles to firmly catch and deactivate bacteria, allergens, mold and odors!

How Nano Titanium works

Incredibly small (about 5nm) and highly dense wasabi-modified Nano Titanium particles prevent microbes from going through and deactivate them effectively.



Conventional anti-bacterial agents



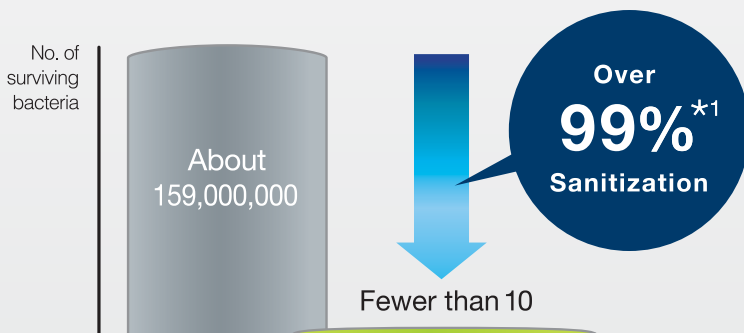
Nano Titanium agents

● Bacteria
● Odors

<Image>

Antibacterial

Hitachi's new Nano Titanium Wasabi Air Purifying Filter has been proven to effectively deactivate over 99%*1 of bacteria.



Before



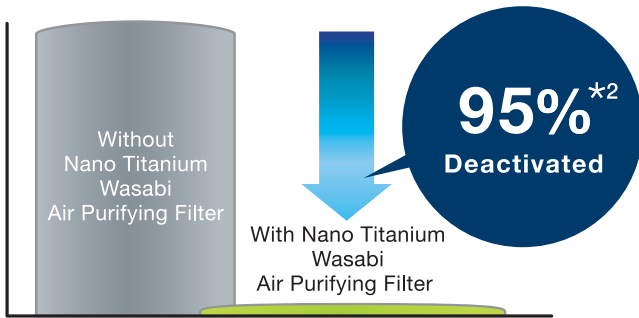
After 24 hours

*1 Bacteria sample (Staphylococcus aureus) is 99% deactivated in 24 hours. Tested by University Putra Malaysia. Test Method: JIS Z 2801:2000

Anti-Allergen

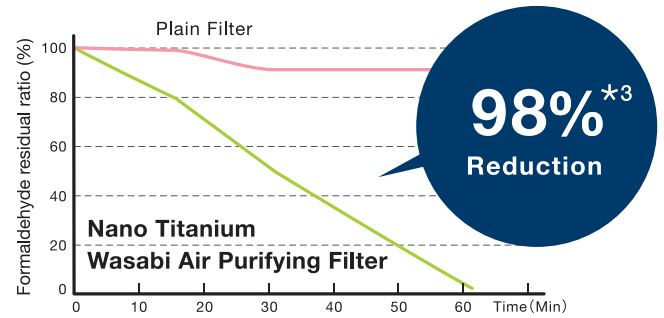
The Nano Titanium Wasabi Air Purifying Filter effectively deactivates harmful allergens such as dust mites and formaldehyde, which may cause allergic diseases such as asthma.

Dust Mite Allergen Deactivation



*2 Test method: 6-hour ELIZA assay using dust mite allergen. Tested by the International Medical University Malaysia.

Formaldehyde Reduction Effect



*3 Test material: Nano Titanium Wasabi Air Purifying Filter (30.8 x 27.6cm 5T), Reactor volume: 1m³
Analysis: Gas Detector Tube Method. Flow rate through kit: 1m/s
Tested by the Nanopac Testing Laboratory.

Mold and Fungi Suppression

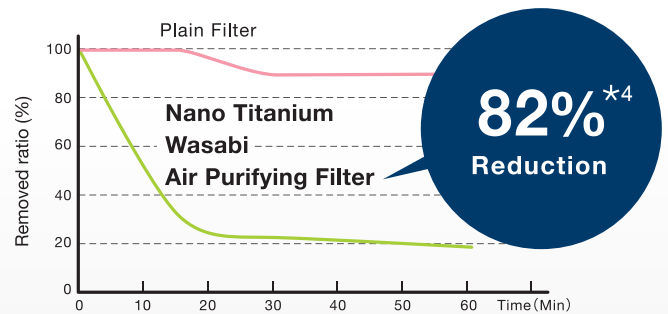
The Nano Titanium Wasabi Air Purifying Filter dramatically suppresses fungal growth to keep your air fresh and free of mold at all times.

Odor Removal

The Nano Titanium Wasabi Air Purifying Filter thoroughly deodorizes air. Up to 82%*4 removal in only an hour.

*4 Test material: Nano Titanium Wasabi Air Purifying Filter (30.8 x 27.6cm 5T), Reactor volume: 1m³
Analysis: Gas Detector Tube Method.
Flow rate through kit: 1m/s
Tested by the Nanopac Testing Laboratory.

Ammonia Deodorizing Effect



UV Fresh

Even more fresher air supply is realized by combining UV Fresh! UV-LED light emits shortwave UV onto the filters and deactivates 99%*5 of bacteria trapped.

<Image>

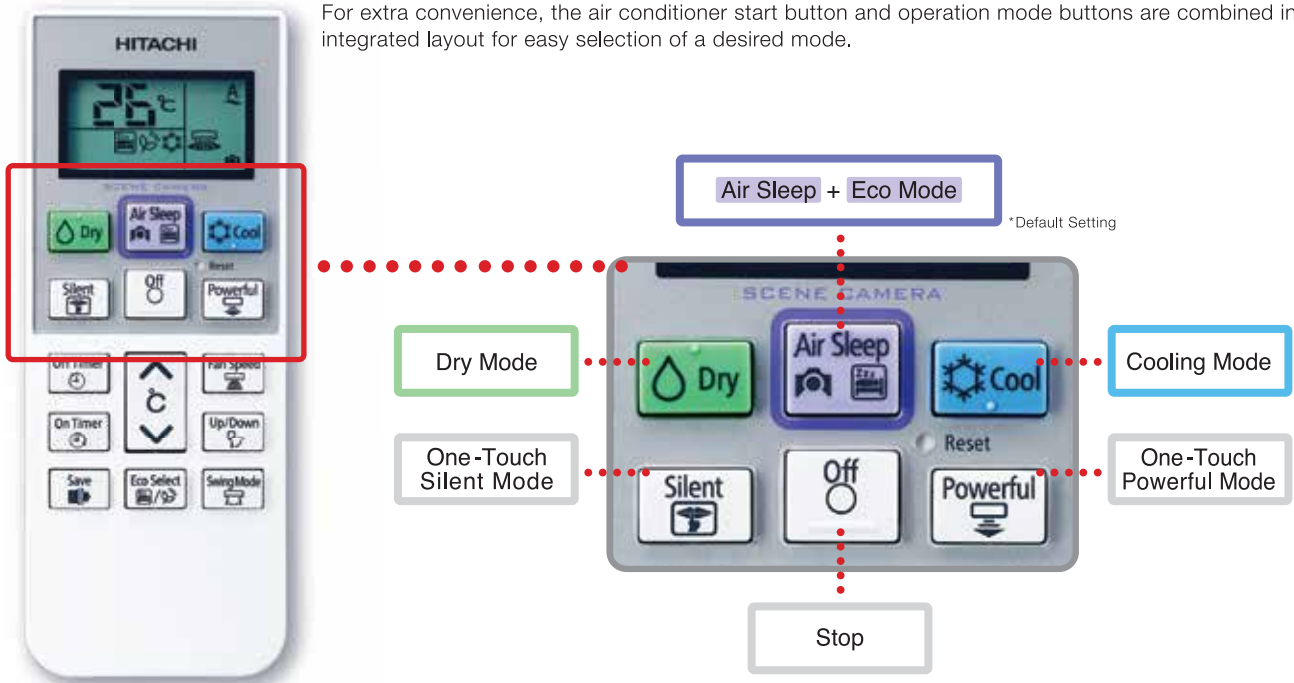
UV-LED

*5 Tested by Japan Food Research Laboratories. Approval No.203061804-001

Features for Your Comfort

Easy-to-Use Remote Control

For extra convenience, the air conditioner start button and operation mode buttons are combined in an integrated layout for easy selection of a desired mode.



Smart Swing

By detecting human presence, individual location, activity level, sunlight and temperature, Scene Camera Twin enables smart adjustment of wind direction (left/right, near/far), swing time depending on the scene.



Limited Area Swing



Wide Area Swing



Sends cool air for a longer period of time to people with a high activity level and for a shorter time for people with a low activity level.

Eco Mode

When the Eco Mode is selected, the air conditioner controls the room temperature depending on the detected situation, and wind direction using Smart Swing.

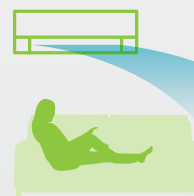
Direct Swing / Indirect Swing

You can choose whether to have cool air sent directly to you, or indirectly for soft cooling as desired.



Direct Swing

Scene Camera Twin detects your location, and always sends cool air directly to you to provide a comfortable breeze.



Indirect Swing

Scene Camera Twin detects your location, and automatically avoids sending cool air directly to you for soft cooling.

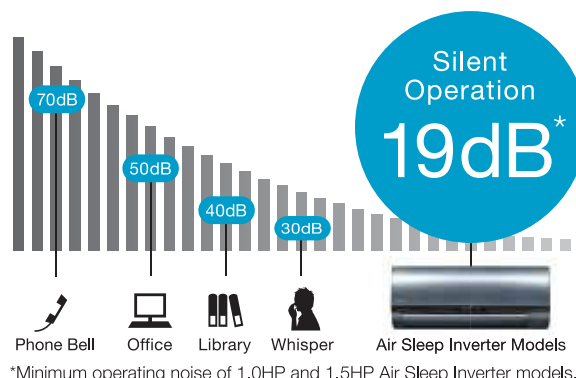
One-Touch Powerful Mode

A single press of the Powerful Mode button immediately starts Powerful Mode operation. In this mode, airflow reaches much further to quickly cool the room with maximum cooling power and the highest efficiency. When you arrive home on a hot day, just tap the button to feel cool and comfortable almost instantly.



One-Touch Silent Mode

The One-Touch Silent Mode lets you enjoy operation that's among the quietest on the market. Switch to the Silent Mode, and you can sleep through the night without hearing more than a whisper.

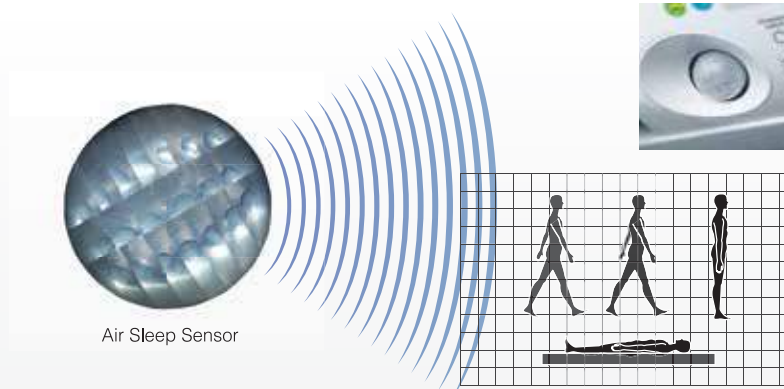


Save Mode

This function limits maximum current during operation to prevent the circuit breaker from tripping.

Air Sleep Sensor

The movement of people and their sleep/awake condition are precisely monitored by a sensor combined with an eyeball-like Fresnel lens. A Fresnel lens consists of 20 microlenses which enable accurate short, medium and long distance sensing.



Fuzzy Logic Control

The built-in microcomputer measures and records room size together with previous and current conditions and sets the advanced activation timer to provide the optimum temperature every time you enter the room.

Auto Restart

For even greater convenience, the Auto Restart feature prompts the air conditioner to restart at its previous setting right after a power failure.

Seamless Fan Speed Control

With the newly improved seamless fan control system, Hitachi's air conditioners assure extremely quiet and smooth fan speed changes for even more comfort. No more annoying sound and surprises from sudden fan speed changes!





ALL DC INVERTER



Premium Models

SCENE CAMERA

Air Sleep

STAINLESS CLEAN

NEW



RAS-VX10CF/VX13CF

12,000*
BTU/h

*1 Max. cooling capacity of RAS-VX10CF.

MODEL		RAS-VX10CF	RAS-VX13CF
Cooling Capacity	BTU/h	9,730 (3,070 -12,000)	12,280 (3,070 -14,330)
	KW	2.85 (0.9 - 3.5)	3.6 (0.9 - 4.2)
	EER	15.00	13.00



RAC-VX10CF
RAC-VX13CF

- Scene Camera Twin
- Zzz Air Sleep Mode
- Eco Mode
- Smart Swing
- Direct Airflow
- Indirect Airflow
- Smart Vector System
- DC Power System
- Nano Titanium Wasabi Air Purifying Filter
- UV Fresh
- SUS Nano Titanium Stainless Pre-Filter
- One-touch Powerful Mode
- One-touch Silent Mode
- Super Silent Wave Blade Indoor Fan
- High Energy Efficiency
- Reliable Fuzzy Logic Control
- Vertical Auto Swing
- Horizontal Auto Swing
- Auto Restart
- GREEN FIN Green Fin Condenser
- Save Mode
- Fireproof Electrical Enclosure

Non-Inverter

Standard Models



NEW



RAS-F10CF



RAC-F10CF

MODEL		RAS-F10CF
Cooling Capacity	BTU/h	9,210
	kW	2.70
	EER	10.47 - 10.06



NEW



RAS-F13CF



RAC-F13CF

MODEL		RAS-F13CF
Cooling Capacity	BTU/h	11,950-12,020
	kW	3.50-3.52
	EER	10.86-10.73



Standard Wide Models



NEW



RAS-F18CF



RAC-F18CF

MODEL		RAS-F18CF
Cooling Capacity	BTU/h	17,420 - 17,760
	kW	5.10 - 5.20
	EER	9.73 - 9.92



NEW



RAS-F24CF



RAC-F24CF

MODEL		RAS-F24CF
Cooling Capacity	BTU/h	22,215
	kW	6.51
	EER	9.79 - 9.26



Standard Wide Model



RAS-30CE9G



RAC-30CE9G

MODEL		RAS-30CE9G
Cooling Capacity	BTU/h	29,180 - 29,520
	kW	8.55 - 8.65
	EER	9.73 - 9.43

DC Power System	Nano Titanium Wasabi Air Purifying Filter	One-touch Powerful Mode	One-touch Silent Mode
Sleep Mode	Vertical Auto Swing	Horizontal Auto Swing	High Energy Efficiency
Reliable Fuzzy Logic Control	Auto Restart	Green Fin Condenser	Fireproof Electrical Enclosure

Window Type

Nano Titanium WASABI Air Purifying Filter



Packed with a hybrid coating of Nano Titanium and WASABI solution, this filter realizes powerful antibacterial, anti-mold, anti-allergen, and deodorizing effect.

Nano Titanium Pre-Filter



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

Twin Turbo Fan



Hitachi's Twin Turbo Fan delivers air flow that conventional fans simply cannot match. The streamlined, drag-reducing design also helps to dampen noise efficiently.

Green Fin Condenser



With its special anti-corrosion "green" coating, the Green Fin Condenser lasts up to three times as long as standard types. This coating assures better performance, durability and savings, even in tough conditions such as those in coastal areas.

Horizontal Auto Swing



Vertical airflow from the left and right sides is delivered by the automatic horizontal movement of the air deflectors over a wide angle to cool the entire room uniformly.

High Efficiency

Thanks to the powerful rotary compressor, highly efficient heat exchanger and Twin Turbo fan, Hitachi Twin Flow models deliver unbeatable energy efficiency.



MODEL		RA-10LF
Cooling Capacity	BTU/h	9,040
	kW	2.65
	EER	9.32

Nano Titanium Wasabi Air Purifying Filter	Nano Titanium Pre-Filter	Green Fin Condenser
Twin Turbo Fan	Horizontal Auto Swing	



MODEL		RA-13LF
Cooling Capacity	BTU/h	12,890
	kW	3.78
	EER	9.28

Nano Titanium Wasabi Air Purifying Filter	Nano Titanium Pre-Filter	Green Fin Condenser
Twin Turbo Fan	Horizontal Auto Swing	

Features Comparison

			ALL DC INVERTER				NON-INVERTER			WINDOW	
			Premium	Deluxe Plus	Deluxe	Deluxe Wide		Standard	Standard Wide	Standard	
			RAS-VX10CF RAS-VX13CF	RAS-SX10CD RAS-SX13CD	RAS-SD10CD RAS-SD13CD	RAS-DX18CF	RAS-DX24CF	RAS-F10CF RAS-F13CF	RAS-F18CF RAS-F24CF	RAS-30CE9G	RA-10LF RA-13LF
Energy Saving	Scene Camera Twin	NEW	•								
	Air Sleep Mode		•	•	•	•	•				
	Eco Mode	NEW	•								
	Air Sleep + Eco Mode	NEW	•								
	Auto Off Mode	NEW	•								
	Auto On Mode	NEW	•								
	Smart Swing	NEW	•								
	Direct/Indirect Swing	NEW	•								
	Save Mode	NEW	•								
Clean	Stainless Clean		•	•							
	UV Fresh		•	•	•	•	•				
	Nano Titanium Stainless Pre-Filter		•	•	•	•	•				
	Nano Titanium Pre-Filter										•
	Anti-Mold Pre-Filter							•	•	•	
	Nano Titanium WASABI Air Purifying Filter		•	•	•	•	•			•	•
	Washable Detachable Front Panel		•	•	•	•	•	•	•	•	•
Comfort	One-Touch Powerful Mode		•	•	•	•	•			•	
	One-Touch Silent Mode (19dB)		•	•	•						
	One-Touch Silent Mode					•	•			•	
	Fuzzy Logic Control		•	•	•	•	•	•	•	•	
	Sleep Mode							•	•	•	
	Sensor Dry Operation		•	•	•	•	•	•	•	•	
	Vertical Auto Swing		•	•	•	•	•	•	•	•	
	Horizontal Auto Swing		•							•	•
	Fan Speed		4 Grades	4 Grades	4 Grades	4 Grades	4 Grades	3 Grades	3 Grades	3 Grades	2 Grades
	Seamless Fan Speed Control		•	•	•	•	•				
	Air Exhaust System										•
	Easy-to-Use Remote Control		•	•	•	•	•	•	•	•	
	12h Timer		•	•	•	•	•	•	•		
24h Timer									•		
Reliability	Smart Vector System		•	•	•	•	•				
	DC Power System		•	•	•	•	•	•	•	•	
	Auto Restart		•	•	•	•	•	•	•	•	
	Fireproof Electrical Enclosure		•	•	•	•	•	•	•	•	•
	Green Fin Anti-Corrosion		•	•	•	•	•	•	•	•	•
	Antirust Outdoor Casing		•	•	•	•	•	•	•	•	•
	3-Minute Delay Circuit (Fuse Blow Prevention)		•	•	•	•	•	•	•	•	
	Twin Rotary Compressor						•				
	Changeable Drain Hose		•	•	•	•	•	•	•	•	
	Drainless Splash System										•
	Twin Turbo Fan										•

Features Introduction

Scene Camera Twin

The Thermo Camera and Image Camera monitor individuals and room conditions to automatically adjust cooling operation in various situations for maximum comfort and minimum energy consumption.

Air Sleep Mode

The Air Sleep Sensor detects your sleep conditions and the air conditioner automatically shifts to super silent operation and maintains the optimum room temperature for a good sleep. It returns to the normal cooling mode when the sensor detects that you are waking up.

Eco Mode

Scene Camera Twin smartly monitors human presence, location, activity level, sunlight and temperature to automatically adjust cooling operation for maximum comfort and minimum energy consumption.

Air Sleep + Eco Mode

A combination of the Air Sleep Mode and Eco Mode. Daytime: Cooling with Eco Mode operation. Nighttime: Cooling with Air Sleep Mode and Smart Swing operation. When frequent rollovers are detected, the Thermo Camera checks the temperature of the bed and cool air is automatically sent to hot areas.

Eco Select

By pressing the Eco Select button, you can select the Air Sleep + Eco Mode, Air Sleep Mode or Eco Mode to match the room conditions and scene.

Smart Swing

By detecting human presence, individual location, activity level, sunlight and temperature, Scene Camera Twin enables smart adjustment of wind direction (left/right, near/far), swing time depending on the scene.

Auto Off Mode

The air conditioner will automatically turn off after 1 hour of human absence detection.

Auto On Mode

The air conditioner will automatically turn on after detecting people in the room.

Direct/Indirect Swing

Direct Swing: Automatically sends cool air to the place where people are.
Indirect Swing: Automatically avoids sending cool air to the place where people are.

Save Mode

Limits maximum current during operation to prevent the circuit breaker from tripping.

Stainless Clean

Stainless steel is applied to air ducts, louvre and pre-filter to realize an antibacterial and dust prevention effect.

UV Fresh

Antibacterial UV LED light is emitted to sterilize bacteria on the air purifying filters.

Nano Titanium Stainless Pre-Filter

Pre-filter with Nano Titanium Stainless coating that sterilize bacteria, deodorizes and enables easy cleaning.

Nano Titanium Pre-Filter

Pre-filter with Nano Titanium coating, which uses a TiO₂ catalyst to provide an antibacterial and deodorizing effect.

Anti-Mold Pre-Filter

Pre-filter with anti-mold effect.

Nano Titanium Wasabi Air Purifying Filter

Air purifying filters are coated with Nano Titanium and wasabi contents to provide an antibacterial, anti-allergen, anti-mold and deodorizing effect.

Washable Detachable Front Panel

Easy-to-detach washable flat front panel for easy cleaning and maintenance.

One-Touch Powerful Mode

A single press of the Powerful Mode button starts powerful cooling operation with maximum cooling power and fan speed.

One-Touch Silent Mode

A single press of the Silent Mode button starts quiet operation.

Fuzzy Logic Control

The built-in microcomputer measures and records room size together with previous and current conditions and sets the advanced activation timer to provide optimum temperature.

Sleep Mode

Off timer useful when you would like the air conditioner to switch off after a certain amount of time during sleep.

Sensor Dry Operation

Decreases room humidity by softly cooling the room.

Vertical Auto Swing

Wind direction is automatically directed up and down to deliver cool air evenly.

Horizontal Auto Swing

Wind direction is automatically directed left to right to deliver cool air evenly.

Seamless Fan Speed Control

The four fan speed levels (Powerful, High, Medium, Low) switch extremely smoothly for seamless non-step fan speed control.

12h/24h Timer

Timer setting that automatically turns off operation after a selected number of hours.

Air Exhaust System

Allows ventilation of the room.

Smart Vector System

Uses a special microcomputer pre-installed with the compressor's mechanical properties data to monitor and adjust compressor rotation speed at all times for efficient, powerful, stable operation.

DC Power System

Uses DC indoor motors that are efficient, quiet and safe during maintenance.

Auto Restart

Restarts the air conditioner at the previous setting after a power failure.

Fireproof Electrical Enclosure

Electrical parts of indoor and outdoor units are tightly enclosed in a 100% metal box to ensure there is virtually no possibility of fire spreading.

Green Fin Anti-Corrosion

Anti-corrosion green coating on the outdoor unit heat exchanger.

Antirust Outdoor Unit

Constructed of galvanized sheet complete with baked synthetic resin type paint that can withstand rust and harsh weather conditions.

3-Minute Delay Circuit

Ensures there's no danger of the fuse blowing or damage to parts if operation is restarted accidentally.

Twin Rotary Compressor

Twin rotating cylinders assure better balanced rotation for less vibration and quieter operation.

Changeable Drain Hose

Drain hose connection is easily interchangeable to either the left or right of the indoor unit.

Drainless Splash System

Condensation from the evaporator is splashed back onto the condenser surface for better cooling efficiency without the need for a drain.

Twin Turbo Fan

Enables powerful airflow with low noise.

Deluxe Plus Models

Air Sleep
STAINLESS CLEAN



RAS-SX10CD/SX13CD



RAC-SX10CD
RAC-SX13CD

11,500*2
BTU/h

*2 Max. cooling capacity of RAS-SX10CD.

MODEL	RAS-SX10CD	RAS-SX13CD	
Cooling Capacity	BTU/h	9,730 (3,070-11,500)	12,640 (3,070-14,330)
	kW	2.85 (0.9 - 3.4)	3.7 (0.9 - 4.2)
	EER	13.10	12.15

Deluxe Models

Air Sleep



RAS-SD10CD/SD13CD



RAC-SX10CD
RAC-SX13CD

11,500*3
BTU/h

*3 Max. cooling capacity of RAS-SD10CD.

MODEL	RAS-SD10CD	RAS-SD13CD	
Cooling Capacity	BTU/h	9,730 (3,070-11,500)	12,640 (3,070-14,330)
	kW	2.85 (0.9 - 3.4)	3.7 (0.9 - 4.2)
	EER	13.10	12.15



Deluxe Wide Models

NEW

Air Sleep



RAS-DX18CF/DX24CF



RAC-DX18CF RAC-DX24CF

MODEL	RAS-DX18CF	RAS-DX24CF	
Cooling Capacity	BTU/h	17,740 (3,070-18,430)	22,180 (5,117-27,299)
	kW	5.2 (0.9 - 5.4)	6.5 (1.5 - 8.0)
	EER	11.20	11.32



Specifications

SPLIT TYPE : ALL DC INVERTER

		Premium Scene Camera Air Sleep		Deluxe Plus Air Sleep + Stainless Clean		Deluxe Air Sleep		Deluxe Wide Air Sleep				
Model	Indoor	RAS-VX10CF	RAS-VX13CF	RAS-SX10CD	RAS-SX13CD	RAS-SD10CD	RAS-SD13CD	RAS-DX18CF	RAS-DX24CF			
	Outdoor	RAC-VX10CF	RAC-VX13CF	RAC-SX10CD	RAC-SX13CD	RAC-SX10CD	RAC-SX13CD	RAC-DX18CF	RAC-DX24CF			
Phase, Voltage, Frequency		φ,V,Hz		1φ,220-230V,50Hz								
Cooling Capacity		kW		2.85(0.9-3.5)	3.6(0.9-4.2)	2.85(0.9-3.4)	3.7(0.9-4.2)	2.85(0.9-3.4)	3.7(0.9-4.2)	5.2(0.9-5.4)	6.5(1.5-8.0)	
		BTU/h		9,730(3,070-12,000)	12,280(3,070-14,330)	9,730(3,070-11,500)	12,640(3,070-14,330)	9,730(3,070-11,500)	12,640(3,070-14,330)	17,740(3,070-18,430)	22,180(5,117-27,299)	
Total Input		W		648(210-1,190)	943(330-1,280)	740(210-1,190)	1,040(330-1,280)	740(210-1,190)	1,040(330-1,280)	1,580(355-2,200)	1,960(200-2,820)	
Total Amperes		A		3.40-3.25	4.95-4.70	4.32-4.13	5.91-5.65	4.32-4.13	5.91-5.65	8.95-8.55	9.00-8.60	
EER		BTU/h.W		15.00	13.00	13.10	12.15	13.10	12.15	11.20	11.32	
COP				4.40	3.82	3.85	3.56	3.85	3.56	3.29	3.32	
Airflow (HH/H/M/L/Silent)		m³/min		12.0/11.0/9.5/7.5/3.5	12.0/11.0/9.5/7.5/4.5	12.0/11.0/9.0/8.0/3.5	12.0/11.0/9.5/7.5/3.5	12.0/11.0/9.0/8.0/3.5	12.0/11.0/9.5/7.5/3.5	15.0/14.5/13.0/9.0/6.5	15.5/15.0/13.5/10.0/7.0	
Indoor Sound Level (HH/H/M/L/Silent)		dB		44/42/37/32/19	48/47/40/33/19	44/42/37/32/19	48/47/40/33/19	44/42/37/32/19	48/47/40/33/19	48/47/41/32/26	49/48/41/34/28	
Dehumidifying Capacity		L/h		1.6	1.6	1.4	1.6	1.4	1.6	2.8	4.5	
Net Dimensions		Indoor(WxHxD)		mm	790 x 300 x 280	790 x 300 x 230	790 x 300 x 230	790 x 300 x 230	790 x 300 x 230	900 x 300 x 230	900 x 300 x 230	
		Outdoor(WxHxD)		mm	750 x 570 x 280	750 x 570 x 280	700 x 468 x 258	700 x 468 x 258	700 x 468 x 258	700 x 468 x 258	750/570/280	850 x 800 x 298
Net Weight		Indoor/Outdoor		kg	10/32	10/32	9/23	10/24	9/23	10/24	10/37	10/53
Maximum Length/Height of Piping		m		20/10	20/10	20/10	20/10	20/10	20/10	20/10	30/20	
Diameter for Pipe Gas/Liquid		mm		9.52/6.35	9.52/6.35	9.52/6.35	9.52/6.35	9.52/6.35	9.52/6.35	12.70/6.35	15.88/6.35	
Power Supply		Outdoor		Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	
Refrigerant		R410A										

SPLIT TYPE : NON-INVERTER

		Standard			Standard Wide				
Model	Indoor	RAS-F10CF	RAS-F13CF	RAS-F18CF	RAS-F24CF	RAS-30CE9G			
	Outdoor	RAC-F10CF	RAC-F13CF	RAC-F18CF	RAC-F24CF	RAC-30CE9G			
Phase, Voltage, Frequency		φ,V,Hz		1φ,220-230V,50Hz			1φ,220-240V,50Hz		
Cooling Capacity		kW		2.70	3.50-3.52	5.10-5.20	6.51	8.55-8.65	
		BTU/h		9,210-9,210	11,950-12,020	17,420-17,760	22,215-22,215	29,180-29,520	
Total Input		W		880-915	1,100-1,120	1,790-1,790	2,270-2,400	3,000-3,130	
Total Amperes		A		4.10-4.05	5.10-4.75	8.30-8.10	10.90-10.60	13.90-14.00	
EER		BTU/h.W		10.47-10.06	10.86-10.73	9.73-9.92	9.79-9.26	9.73-9.43	
COP				3.07-2.95	3.18-3.14	2.85-2.91	2.87-2.71	2.85-2.76	
Airflow (HH/H/M/L/Silent (Sleep))*		m³/min		-/7.5/6.0/4.5/(3.5)*	-/12.0/10.5/8.5/(6.0)*	-/14.7/12.5/10.5/(-)*	-/14.5/12.0/11.0/(9.2)*	20.0/18.0/16.0/14.0/12.0	
Indoor Sound Level (HH/H/M/L/Silent (Sleep))*		dB		-/43/37/31/(24)*	-/47/43/37/(29)*	-/47/42/39/(36)*	-/49/42/39/(36)*	-/47/43/40/34	
Dehumidifying Capacity		L/h		1.4	2.8	2.8	3.5	5.2	
Net Dimensions		Indoor(WxHxD)		mm	785 x 248 x 200	790 x 300 x 230	900 x 300 x 230	1,030 x 295 x 207	1,150 x 333 x 245
		Outdoor(WxHxD)		mm	700 x 468 x 258	750 x 570 x 280	750 x 570 x 280	850 x 650 x 298	850 x 800 x 298
Net Weight		Indoor/Outdoor		kg	7.5/23	10/34	10.5/34	12/48	18/70
Maximum Length/Height of Piping		m		15/10	15/10	15/10	15/10	30/10	
Diameter for Pipe Gas/Liquid		mm		9.52/6.35	12.70/6.35	12.70/6.35	15.88/6.35	15.88/6.35	
Power Supply		Outdoor		Outdoor	Outdoor	Outdoor	Outdoor	Indoor	
Refrigerant		R410A						R22	

WINDOW TYPE

		Standard				
Model		RA-10LF	RA-13LF			
	Phase, Voltage, Frequency		φ,V,Hz		1φ,220V,50Hz	
Cooling Capacity		kW		2.65	3.78	
		BTU/h		9,040	12,890	
Total Input		W		970	1,390	
Total Amperes		A		4.6	6.65	
EER		BTU/h.W		9.32	9.28	
COP				2.73	2.72	
Airflow (HH/H/M/L/Silent)		m³/min		7.5/5.3	9.2/6.1	
Dehumidifying Capacity		L/h		1.6	2.1	
Net Dimensions		WxHxD		mm	470 x 345 x 640	560 x 375 x 709
Net Weight		kg		34	45	
Refrigerant		R410A				

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