

		Premium Luxury Design	Premium		Deluxe		Deluxe Wide
Model	Indoor	RAS-SX10CB	RAS-SD10CB	RAS-SD13CB	RAS-X10CB	RAS-X13CB	RAS-X18CX
	Outdoor	RAC-SX10CB	RAC-SX10CB	RAC-SX13CB	RAC-SX10CB	RAC-SX13CB	RAC-X18CX
Phase, Voltage, Frequency		Φ,V,Hz	1Φ,220-230V,50Hz		1Φ,220-240V,50Hz		
Cooling Capacity	kW	2.85(0.9-3.1)	2.85(0.9-3.1)	3.70(0.9-4.2)	2.85(0.9-3.1)	3.70(0.9-4.2)	5.20(0.9-5.4)
	BTU/h	9,730(3,070-10,585)	9,730(3,070-10,585)	12,630(3,070-14,330)	9,730(3,070-10,585)	12,630(3,070-14,330)	17,740(3,070-18,430)
Total Input		W	760(210-1,050)	760(210-1,050)	1,040(330-1,280)	760(210-1,050)	1,040(330-1,280)
Total Amperes		A	4.32-4.13	4.32-4.13	5.91-5.65	4.32-4.13	5.91-5.65
EER		BTU/h·W	12.8	12.8	12.1	12.8	11.2
COP			3.75	3.75	3.56	3.75	3.29
Air Flow (HH/H/M/L/Silent)		m³/min	12.0/11.0/9.0/8.0/5.0	12.0/11.0/9.0/8.0/5.0	13.0/12.5/10.0/8.0/7.5	12.0/11.0/9.0/8.0/5.0	13.0/12.5/10.0/8.0/7.5
Dehumidifying Capacity		L/h	1.4	1.4	1.6	1.4	1.6
Net Dimensions	Indoor (W/H/D)	mm	790/300/230	790/300/230	790/300/230	790/300/290	1,030/295/207
	Outdoor (W/H/D)	mm	700/468/258	700/468/258	700/468/258	700/468/258	750/570/280
Net Weight		kg	9/23	9/23	10/24	9/23	10/24
Maximum Length of Piping		m	20/10	20/10	20/10	20/10	20/10
Diameter for Pipe Gas / Liquid		mm	9.52/6.35	9.52/6.35	9.52/6.35	9.52/6.35	12.7/6.35
Power Supply			Outdoor	Outdoor	Outdoor	Outdoor	Outdoor

## SPLIT TYPE - CONSTANT SPEED

		Deluxe		Deluxe Wide		Standard		Standard Wide		CEILING CASSETTE		
Model	Indoor	RAS-S10CZ	RAS-S13CY	RAS-S18CAM	RAS-24CE9G	RAS-30CE9G	RAS-E10CZ	RAS-E13CY	RAS-E18CY	RAS-E24CY	RAI-18C	
	Outdoor	RAC-S10CZ	RAC-S13CY	RAC-S18CAM	RAC-24CX9	RAC-30CE9G	RAC-E10CZ	RAC-E13CY	RAC-18C9	RAC-24C9	RAC-18C	
Phase, Voltage, Frequency		Φ,V,Hz	1Φ,220-230V,50Hz	1Φ,220-240V,50Hz		1Φ,220-230V,50Hz		1Φ,220-240V,50Hz				
Cooling Capacity	kW	2.96-2.96	3.52-3.54	5.10-5.20	7.05-7.05	8.55-8.65	2.70-2.70	3.50-3.52	5.10-5.20	6.50-6.50	5.00-5.00	
	BTU/h	10,110-10,110	12,020-12,090	17,410-17,750	24,060-24,060	29,180-29,520	9,210-9,210	11,950-12,020	17,410-17,750	22,190-22,190	17,070-17,070	
Total Input		W	880-915	1,050-1,070	1,790-1,950	2,175-2,250	3,000-3,130	880-915	1,100-1,120	1,790-1,950	2,270-2,400	1,810-1,900
Total Amperes		A	4.10-4.05	4.85-4.55	8.30-8.50	10.30-9.90	13.90-14.00	4.10-4.05	5.10-4.75	8.30-8.50	10.90-10.50	8.30-8.20
EER		BTU/h·W	11.48-11.04	11.45-11.30	9.73-9.10	11.06-10.69	9.73-9.43	10.47-10.06	10.86-10.73	9.73-9.10	9.78-9.25	9.43-8.98
COP			3.36-3.23	3.35-3.31	2.85-2.67	3.24-3.13	2.85-2.76	3.07-2.95	3.18-3.14	2.85-2.67	2.86-2.71	2.76-2.63
Air Flow (HH/H/M/L/Silent)		m³/min	10.8/9.5/7.6/6.3/4.6	11.9/11.8/8.9/6.4/5.4	-/13.5/12.0/10.9/-	19.0/18.0/15.0/12.0/11.0	20.0/18.0/16.0/14.0/12.0	-/8.0/6.0/4.5/3.5	-/11.4/8.5/7.2/-	-/13.5/12.0/10.9/-	-/13.5/12.5/11.3/-	12.0/8.0/5.8
Dehumidifying Capacity		L/h	1.4	1.8	2.8	4.5	5.2	1.4	1.8	2.8	4.5	2.8
Net Dimensions	Indoor (W/H/D)	mm	780/280/220	780/280/220	1,030/295/207	1,150/333/245	1,150/333/245	785/248/200	780/280/210	1,030/295/207	1,030/295/207	580/285/580
	Outdoor (W/H/D)	mm	700/570/210	700/570/210	750/570/280	850/650/298	850/800/298	700/468/258	700/570/210	750/570/280	850/650/298	750/570/280
Net Weight		kg	9.5/26	10/27	12/41	15/55	18/70	7.5/23.5	10/27	12/41	12/54	20/38
Maximum Length of Piping		m	15/10	15/10	15/10	20/10	30/10	15/10	15/10	15/10	15/10	20/10
Diameter for Pipe Gas / Liquid		mm	9.52/6.35	12.7/6.35	12.7/6.35	15.88/6.35	15.88/6.35	9.52/6.35	12.7/6.35	15.88/6.35	12.7/6.35	
Power Supply			Indoor	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor

## WINDOW TYPE

		Standard	
Model	RA-10KF	RA-13KF	
Phase, Voltage, Frequency		1Φ,220-240V,50Hz	
Cooling Capacity		kW	2.64-2.64
			3.85-3.85
Total Input		W	900-970
Total Amperes		A	4.2-4.2
EER		BTU/h·W	10.01-9.30
COP			2.93-2.72
Air Flow (H/M/L)		m³/min	7.15
Dehumidifying Capacity		L/h	1.6
Net Dimensions		W/H/D	470/345/610
Net Weight		kg	31
			50

©Specifications and designs are subject to change without notice.

©Colour tones of actual products may differ from those shown in this catalogue.

## Use in special environments

- Please consult with your dealer before purchasing if you intend to use the product under special environmental conditions such as districts that are exposed to salty air, and/or hot spring districts.
- Please avoid installation in areas filled with oily smoke or fine oil droplets such as kitchens or machinery factories as this may deform and damage the air conditioner's plastic parts.
- Please avoid installation in locations where frequent voltage fluctuations occur such as factories, in hospitals and workplaces where there is electromagnetic radiation, and in factory areas where there are large amounts of powdery materials, grit or dust.
- All products and features explained in this catalogue are for household use, and are not suitable for use in vehicles or vessels, or for commercial applications.
- Air conditioners are not suitable to be installed in places where liquid and gas chemicals including hair sprays and perm solutions are frequently used. The use of those liquid and gas chemicals close by may harm the air conditioner.

## Safety Precautions &lt;Room Air Conditioner&gt;

- Please read carefully through the Instruction Manual beforehand, and install and use the product in the correct manner.
- All products in this catalogue are designed to provide comfort in the home only. Please do not use them for any of the following purposes: Temperature control for electronic devices and precision equipment, storage rooms for food/utensils and antiques, the care of pets, or the culture or breeding of any living microorganisms. This product is not suitable and may cause quality deterioration and retard the normal growth of animals and plants.

Customer Careline: 1 800 88 1122  
(MON-FRI 9:00am - 5:45pm)

E-mail: marketing.hsm.tf@hitachi.com

www.hitachiconsumer.com.my

**HITACHI**

**ALL DC  
INVERTER** **STAINLESS CLEAN**  
**TOMORROW  
TOGETHER**

# A Revolution in Clean Air!

Hitachi has adopted an original approach to cleanliness.

The result is a completely new kind of air conditioner that stays clean inside to provide you with cleaner, fresher air than ever.

What can we do to continuously deliver fresh, clean air?

Hitachi's answer is to apply antibacterial stainless steel to the inside of the air conditioner.

The material deactivates bacteria to keep air clean from intake to outlet. Dust accumulation is also thoroughly prevented to further assure exceptionally clean, hygienic air. Better still, the innovative ALL DC inverter enables dramatically improved energy saving operation and even more comfort.

Looking for a clean breeze and energy savings? They're right here.

**STAINLESS CLEAN**

**ALL DC INVERTER**

- > Internal Hygiene
- > Highly Antibacterial
- > Dust Free
- > Easy Cleaning
- > Energy Efficient
- > Powerful Cooling
- > Quiet Operation
- > Safe for Maintenance

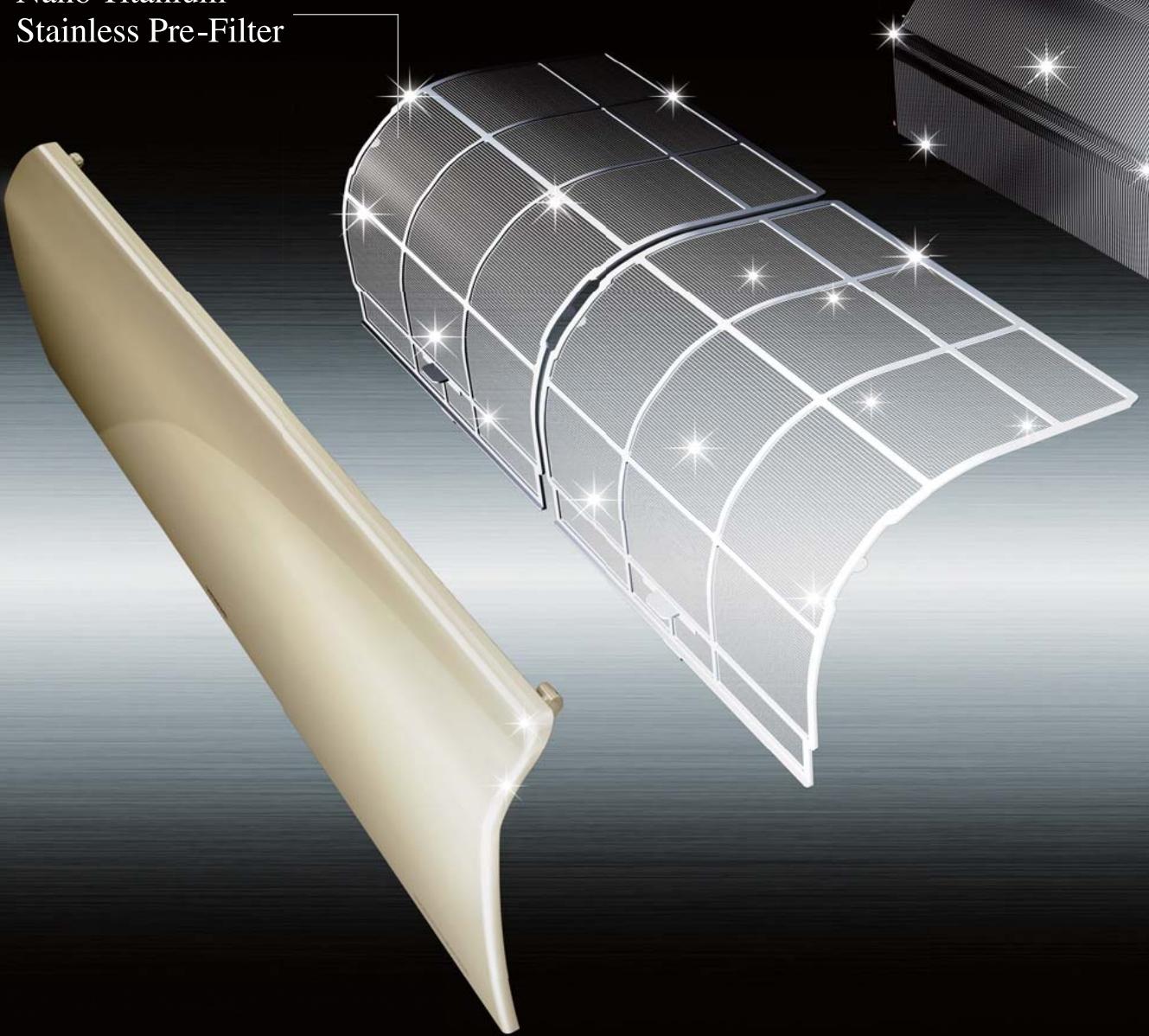


Breakthrough Air Purification System

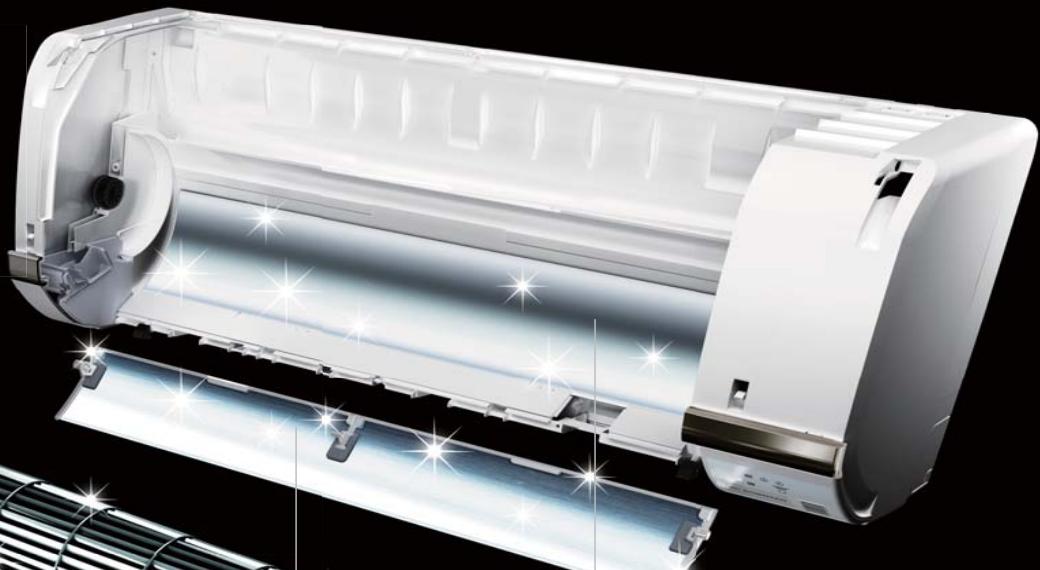
# STAINLESS CLEAN

By using antibacterial stainless steel inside the air conditioner, Hitachi manages to keep the air pathways extra hygienic for long-lasting, fresh, healthy, clean air.

Nano Titanium  
Stainless Pre-Filter



Hitachi  
Original



Stainless Air Duct

Stainless Louvre

## Triple Air Purification System

Hitachi's original air purification system ensures extra fresh, healthy air in your room.



# Air Refreshing System

**STAINLESS CLEAN**



Truly clean air comes from a truly hygienic air conditioner

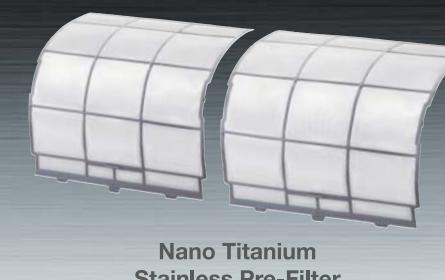
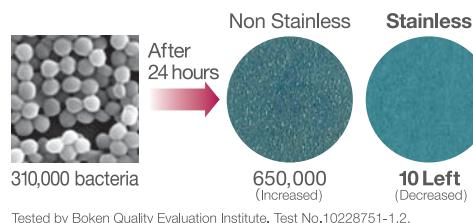
## Antibacterial Sanitizing

### Antibacterial Stainless Steel

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 spontaneously reduced by 99.99%.



### Antibacterial Test



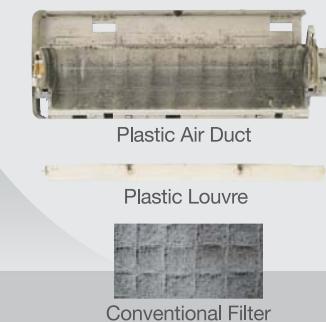
## Did You Know ?

Air conditioners can get very dirty on the inside and can become a home to bacteria and allergens.

**Smelly!!**

**Dirty!!**

### Conventional Air Conditioner After 10 years of Usage

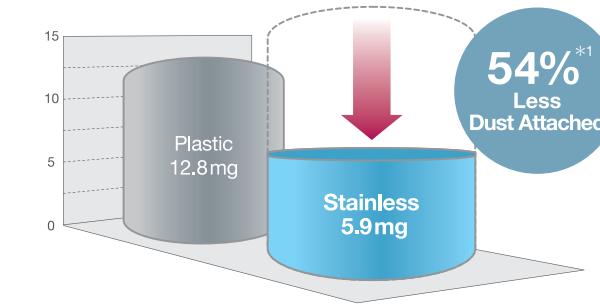


Hitachi air conditioner released 15 years ago (RAS-409GX2)

## Dust Free

### Dust Attachment Test

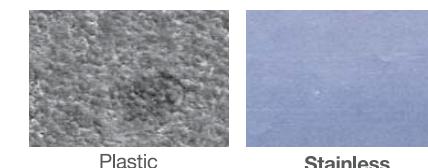
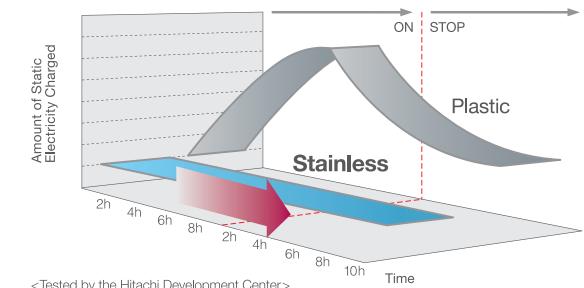
Tests have shown that 54%\*1 less dust sticks to stainless material than to plastic. Which means twice the cleanliness and half the cleaning time.



\*1 Tested by the Hitachi Environmental Test Laboratory

### Less Static Electricity

The static electricity often generated by friction between plastic surfaces and air passing through is the biggest cause of dust accumulating inside an air conditioner. Tests have proved that stainless steel generates almost no static electricity during operation and when the air conditioner is switched off.



## Sleek Surface

Compared to conventional plastic material, stainless material has a flatter, sleeker surface that thoroughly prevents dust from sticking.



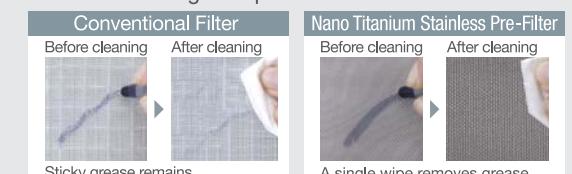
## Easy to Clean

Stainless steel not only prevents dust from sticking, it's also easier 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.

### Dust Cleaning Comparison



### Grease Cleaning Comparison



<Tested by Hitachi Laboratory>

## Clean, Durable Stainless Steel Here and There

The stainless steel used in the Stainless Clean System is of high quality standard and extremely resistant to corrosion. Thanks to its properties, stainless steel is widely used for everyday products, professional equipment and architecture where durability and hygiene are required.



# Air Refreshing System

**UVFresh**

The ultimate solution for air purification.

Using UV (ultraviolet) light, nature's most effective sanitizing agent, Hitachi's UV Fresh powerfully deactivates bacteria, mold and fungal spores.

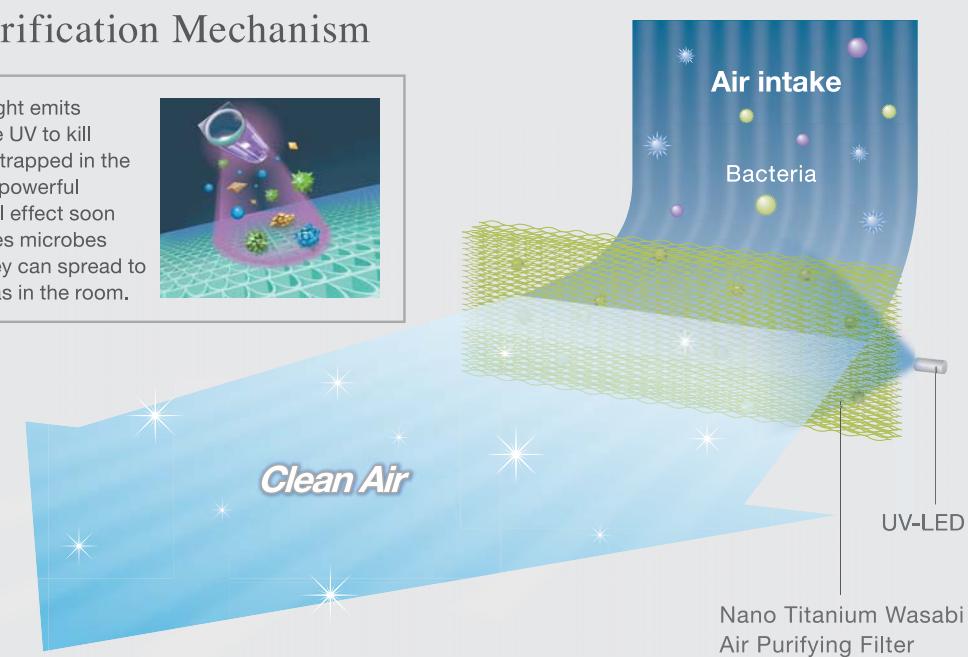


What is UV Fresh?



## Air Purification Mechanism

UV LED light emits shortwave UV to kill microbes trapped in the filters. Its powerful germicidal effect soon deactivates microbes before they can spread to other areas in the room.



## Powerful Sanitizing

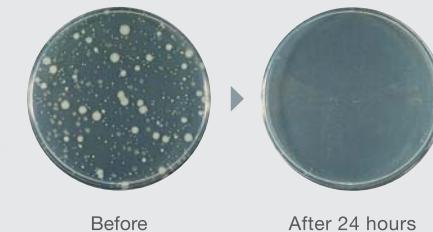
The effectiveness of UV Fresh against harmful germs has been proven. UV light affects the DNA of microbes, preventing them from growing. Tests have shown that UV Fresh deactivates 99.99% of airborne bacteria indoors.

**99.99%**  
Decrease!

### Laboratory Experiment Shows...

#### Deactivation Effect

Bacteria A: Staphylococcus aureus



Before                      After 24 hours

#### Deactivation Ratio of UV Fresh

	Number of Microbes	
Condition	Bacteria A	Bacteria B
Initial Number	360,000	220,000
After UV Fresh	Less than 10	Less than 10
Deactivation Ratio	99.99%	99.99%

Bacteria A: Staphylococcus aureus, Bacteria B: Escherichia coli is 99.99% deactivated in 24 hours. Tested by Japan Food Research Laboratories Approval No. 203061804-001

## UV Fresh Lamp

The UV Fresh indicator lamp on the indoor unit lights whenever UV Fresh is operating. You can feel secure knowing that the air in your room is clean and fresh.



## Maintenance Free

Hitachi uses LED technology to emit UV light. LEDs are durable, and can last up to 10 years, maintenance-free!



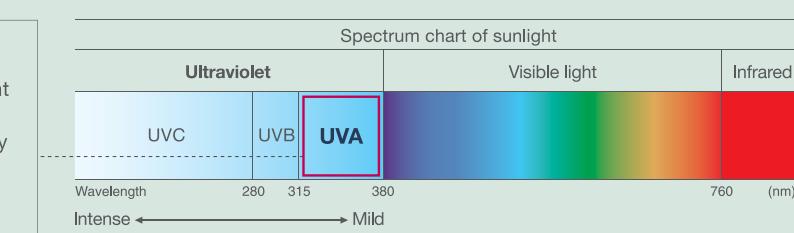
## Trusted Effect

For years it has been known that the ultraviolet (UV) light found in sunlight is nature's most effective sanitizing agent. People hang out bed sheets, blankets and other items in the sun knowing that it effectively sanitizes and deodorizes them. This trusted germicidal effect is rooted in daily life.



## Is UV Fresh Safe?

Yes! UV Fresh uses UV-A, the mildest form of UV light (320-400nm wave length). Being so mild, UV-A is only strong enough to affect microbes.



# Air Refreshing System

## Nano Titanium Wasabi Air Purifying Filter



### What is Nano Titanium Wasabi Air Purifying Filter?

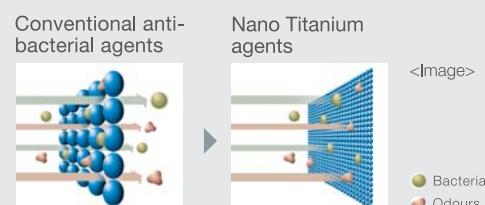
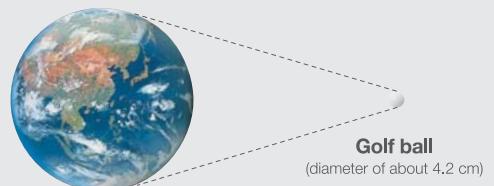
Nano Titanium Wasabi Air Purification is a cutting-edge technology that uses a wasabi-modified Nano Titanium catalyst to provide a powerful antibacterial, anti-mold, anti-allergen and deodorizing effect.

<Image>



### How Nano Titanium works

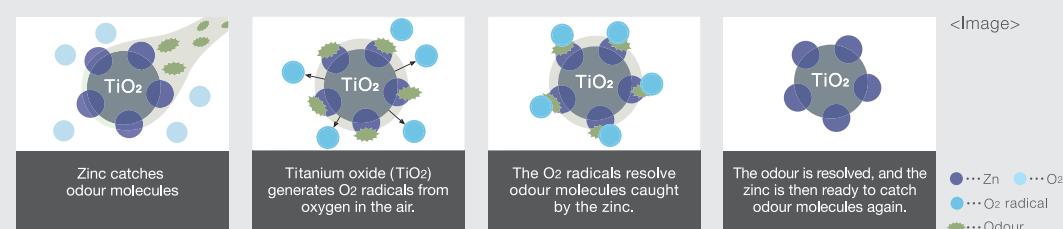
Nano Titanium particles are incredibly small (about 5nm). If you imagined the Earth's diameter is 1 meter, then 5nm would be the size of a golf ball compared to the Earth.



The filter is packed with these minute particles to firmly catch and resolve bacteria, which are approximately 1,000 times larger, mold and odours. Highly dense Nano Titanium particles prevent microbes from going through and deactivate them effectively.

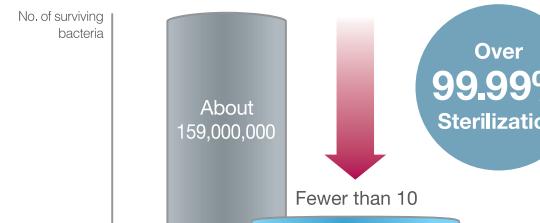
### Principle of Nano Titanium's action

The TiO<sub>2</sub> catalyst has a bacteria deactivation and deodorizing effect.



### Antibacterial

Hitachi's new Nano Titanium Wasabi Air Purifying Filter has been proven to effectively deactivate over 99.99% of bacteria.



Bacteria sample (*Staphylococcus aureus*) is 99.99% deactivated in 24 hours.  
Tested by University Putra Malaysia. Test Method: JIS Z2801:2000

### Anti-Allergen

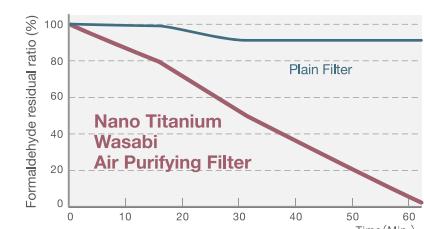
The Nano Titanium Wasabi Air Purifying Filter effectively deactivates harmful allergens such as dust mites and formaldehyde, which may cause allergic diseases such as asthma.

#### Dust Mite Allergen Deactivation



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

#### Formaldehyde Reduction Effect<sup>\*1</sup>



\*1 Test material: Nano Titanium Wasabi Air Purifying Filter (30.8 x 27.6cm 5T), Reactor volume: 1m<sup>3</sup>  
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.

#### Fungus-Proof Test



Tested by the Nanopac Testing Laboratory  
Comparison of two slices of fresh bread left in separate acrylic chambers with and without the Nano Titanium Wasabi Solution for two weeks

### Odour Removal

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

#### Ammonia Deodorizing Effect<sup>\*2</sup>



\*2 Test material: Nano Titanium Wasabi Air Purifying Filter (30.8 x 27.6cm 5T), Reactor volume: 1m<sup>3</sup>  
Analysis: Gas Detector Tube Method. Flow rate through kit: 1m/s  
Tested by the Nanopac Testing Laboratory

### Wasabi Effect

Often seen in Japanese restaurants offering sushi and sashimi, grated wasabi (Japanese horseradish) is well-known for its sinus-clearing spicy taste. The pungent component of wasabi is said to have a strong antibacterial effect, and has long been an important spice for fresh food like raw fish. The new Nano Titanium Wasabi Air Purifying Filter is coated with wasabi particles to further assure a powerful antibacterial and anti-mold effect for an even fresher, healthier air supply.



# Energy Saving System

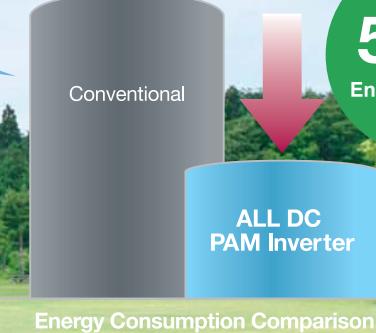
## ALL DC PAM INVERTER SYSTEM

The biggest benefit of an inverter system is energy savings. Compared to non-inverter models, Hitachi All DC Inverter models provide energy savings of up to 50%<sup>\*1</sup>. Powerful start-up also means that the set temperature is reached up to 26%<sup>\*4</sup> faster for rapid room cooling.

WOW!  
Can I save more?  
And be comfortable too?

**50%<sup>\*1</sup>**  
Energy Savings

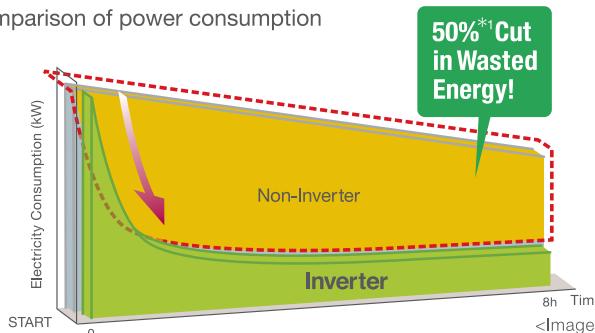
**ENERGY SAVING**  
**POWERFUL COOLING**  
**QUIET OPERATION**



\*1 RAS-SD13CB, X13CB compared with a Hitachi non-inverter 1.5HP model, Power consumption based on cumulative power consumption after 8 hours of operation, Room temperature at start: 35°C, Set temperature: 25°C.

### Outstanding Energy Savings

Comparison of power consumption



Hitachi's ALL DC Inverter air conditioners can cut wasted energy by up to 50% compared to non-inverter models. This outstanding energy saving performance is the result of precise adjustment of cooling power from minimum to maximum.

Minimum Power 0.9KW Medium Power 3.7KW Maximum Power 4.2KW

\*1 RAS-SD13CB, X13CB compared with a Hitachi non-inverter 1.5HP model. Power consumption based on the cumulative power consumption after 8 hours of operation, Room temperature at start: 35°C, Set temperature: 25°C.

### Cost Savings

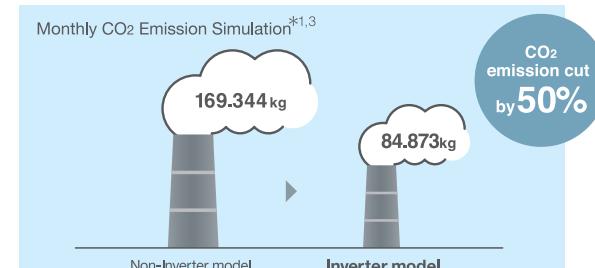
High energy efficiency means lower electricity bills! Simulation showed that you may save around RM27 per month.



\*1 RAS-SD13CB, X13CB compared with Hitachi non-inverter 1.5HP model. Power consumption based on cumulative power consumption after 8 hours of operation, Room temperature at start: 35°C, Set temperature: 25°C. \*2 Electricity Rate as at Tenaga National Berhad, Aug. 2011. \*3 CO<sub>2</sub> Emission calculation formula: Power consumption<sup>\*1</sup> × Number of days used × CO<sub>2</sub> emission coefficient, Emission Coefficient based on the 2008 "Study on Grid Connected Electricity Baselines in Malaysia" by Malaysian Green Technology Corporation (MGTC) (Peninsular Malaysia CO<sub>2</sub> Coefficient: 0.672kg/kWh).

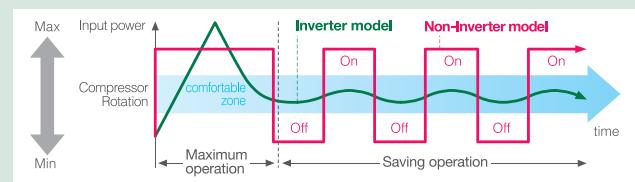
### Environmentally Friendly

Inverter models emit much less CO<sub>2</sub> than conventional air conditioners. Save energy and save earth at the same time!



### How Can an Inverter Save Energy?

With inverter technology, an air conditioner can automatically vary its power output to precisely maintain room temperature at a comfortable level. On the other hand, non-inverter models maintain the temperature by repeatedly switching power on and off, which consumes much more electricity.

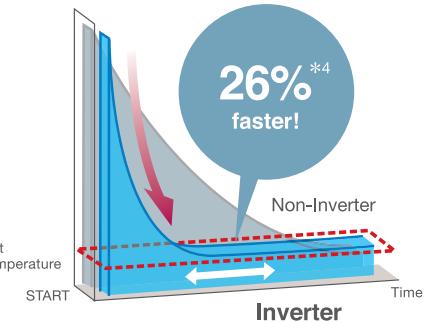


### Instant Cooling

Inverter technology enables high-powered start up, which lets you enjoy high-speed cooling up to 26%<sup>\*4</sup> faster.



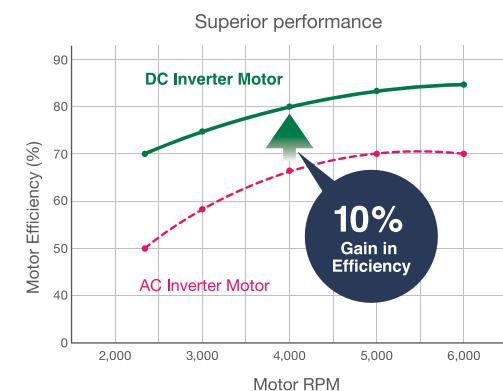
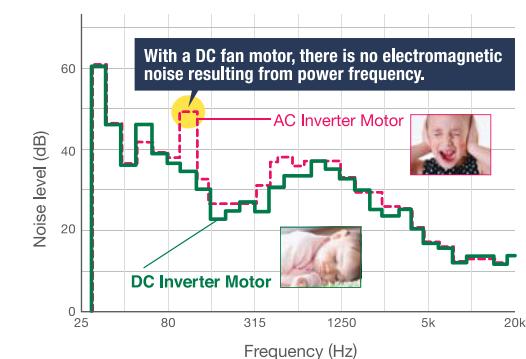
\*4 Comparison of the time taken for Hitachi 2.0HP models to reach 25°C from 34°C. Tested by Hitachi Laboratory



### Quiet, Efficient, Safe

Hitachi's inverter models (All DC) feature DC motors in the indoor and outdoor unit fans as well as the compressor. DC motors are 10% more efficient than conventional AC motors, and are also very quiet. What's more, operating at DC 35V, the indoor unit offers much safer maintenance.

Comparison of motor noises (Compared by Hitachi)



### Hitachi is the pioneer of the DC inverter

Hitachi developed the world's first DC inverter room air conditioner with a brushless DC motor in 1983. Since then, we have continued to amass know-how and new technologies. Now we are proud to present our ALL DC Inverter models. Energy efficient, powerful, quiet and safe for maintenance – in fact, everything you need from an air conditioner.





## Energy Saving System

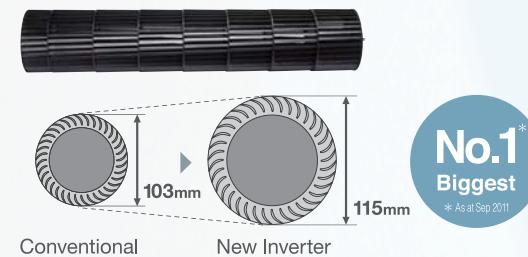
### Indoor Unit Energy Saving Technology

#### 1. Smooth Air Flow

To allow smoother and quieter air flow, the air inlet is about 20% bigger than in conventional air conditioners. The smoother the air flow, the less electricity is needed for fan rotation.

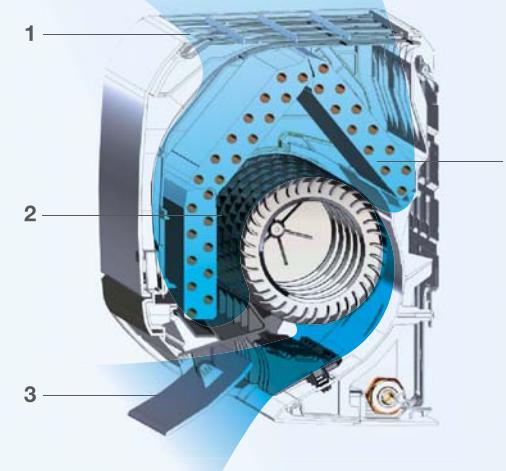
#### 2. Super Big Indoor Fan

Hitachi's indoor unit features a super big fan that's more than 11% larger than conventional indoor unit fans. Increasing the diameter of the fan decreases fan rotation to assure high efficiency and energy saving.



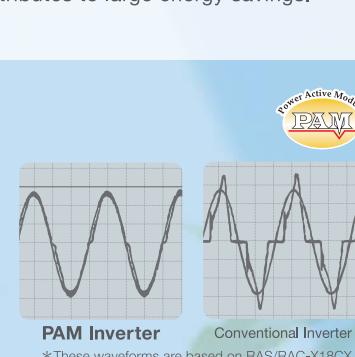
#### 3. Super Big Louvre

With a surface area 54% larger than before, the Super Big Louvre helps to deliver and spread a larger amount of air using less energy.



#### 4. Lambda Heat Exchanger

The large surface area of the multi-dimensional Lambda Heat Exchanger dramatically increases the ratio of heat transfer. By assuring good energy efficiency, this contributes to large energy savings.



# 10,585BTU/h<sup>\*1</sup>

One of the Highest Cooling Capacity in Their Class

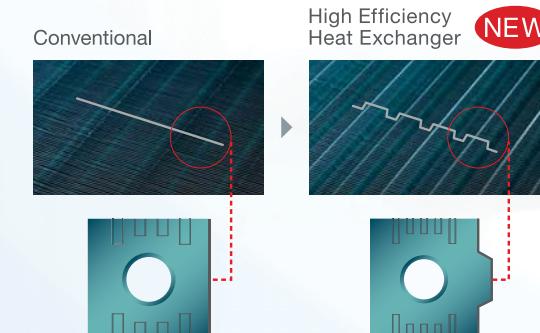
Hitachi air conditioners have one of the highest cooling capacity in their class. Thanks to this, maximum cooling capacity is delivered in the shortest time to rapidly cool the room. Even in living rooms and other large spaces, air flow reaches every corner for comfortable cooling throughout the room.

\*1 Max Cooling Capacity of RAS-SX10CB, RAS-SD10CB, RAS-X10CB

### Outdoor Unit Energy Saving Technology

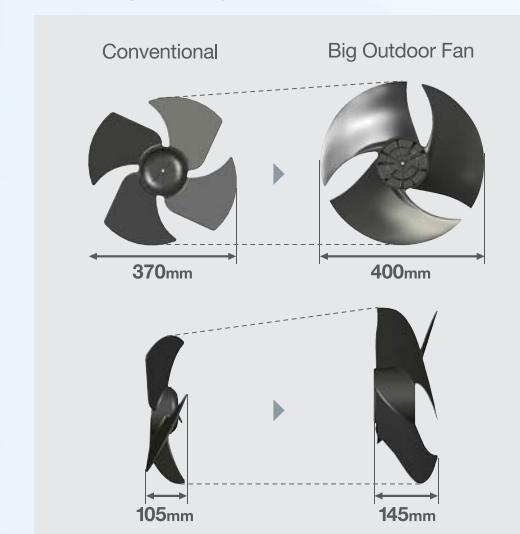
#### 1. High Efficiency Heat Exchanger

The unique shape of the fins in the heat exchanger increases the effective heat exchange area in the outdoor unit by 5%. In other words, an area larger than three pieces of A4 paper has been added for more efficient operation, but the unit is still compact enough for easy installation.



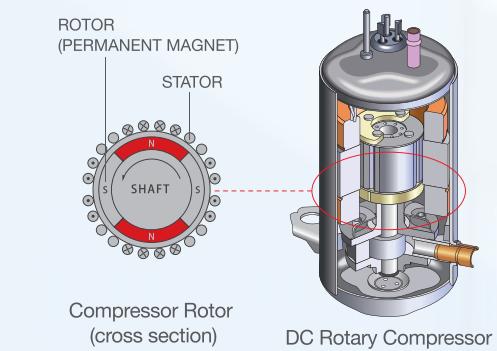
#### 2. Super Big Outdoor Fan

Thanks to specially designed blades, an enlarged diameter and increased depth, the new outdoor fan is able to efficiently deliver a sufficient flow of air while maintaining extremely quiet operation.



#### 3. DC Rotary Compressor

Hitachi's DC rotary compressor provides powerful, highly efficient operation by using a strong permanent magnet that provide magnetism continuously for rotation without tapping/consuming additional energy from electricity supply during operation.



### Hitachi's Innovative Technology

#### PAM Control Maximizes Power Efficiency

To maximize power efficiency, the waveform of the power supply voltage must match that of the current. Making its world debut in 1997, Hitachi's Power Active Module (PAM) control system mirrors the current of pulse waveform to avoid distortion and enhance power efficiency. This cutting-edge technology is employed in Hitachi inverter air conditioners to provide the utmost comfort and to save energy. Ensuring the efficient use of input power, it minimizes loss to less than 1%.



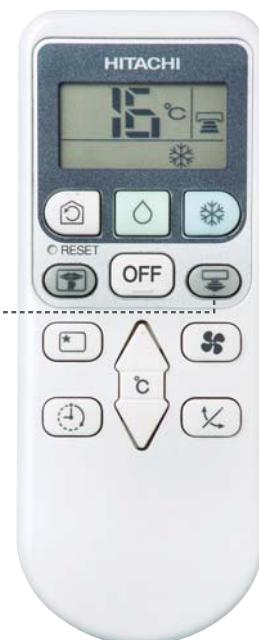
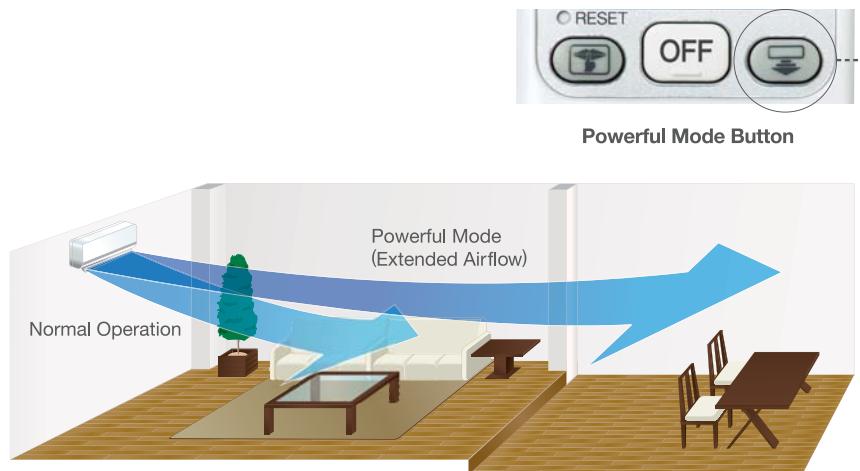


## Features for Your Comfort

### One-Touch Powerful Mode

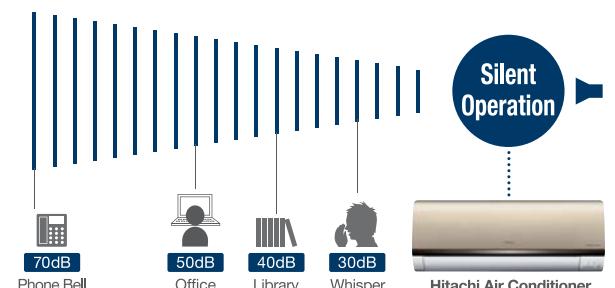
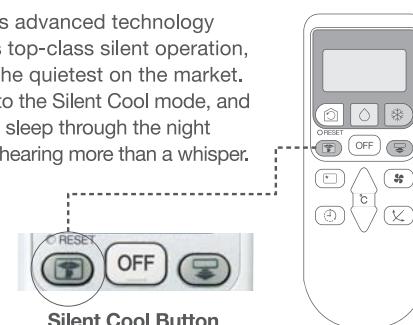
For optimum comfort, just press the Powerful Mode button

A single press of the Powerful Mode button (solely for operating the powerful cooling function) immediately starts Powerful mode operation. In this mode, air flow 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

Hitachi's advanced technology enables top-class silent operation, one of the quietest on the market. Switch to the Silent Cool mode, and you can sleep through the night without hearing more than a whisper.

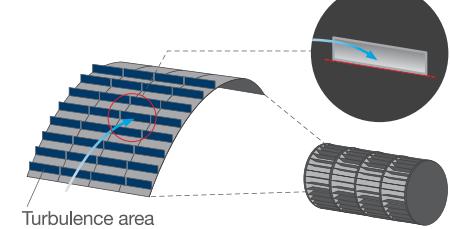


### Hitachi's Silent Technology

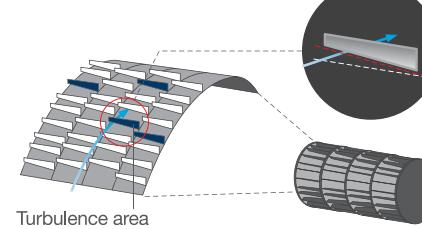


The randomly pitched blades dramatically reduce the area of turbulence to remove any annoying sound. Moreover, each blade is skewed to the shape of a cutting edge so that they sharply shear through the air for a smooth, quiet and energy operation.

Conventional Indoor Fan



Hitachi's Silent Indoor Fan



<Image>

### 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!



### Easy Cleaning Front Panel

Hitachi air conditioners are built with flat front panels for extra cleaning convenience. Easy-to-detach parts further enable trouble-free maintenance in an easily cleaned construction that lets you clean inside the unit to assure many years of optimum 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 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.



## All DC Inverter

**ALL DC INVERTER**

**NEW**  
Premium Luxury Design Model



**STAINLESS CLEAN**



**10,585<sup>\*1</sup>  
BTU/h**



MODEL		RAS-SX10CB
Cooling Capacity	BTU/h	9,730 (3,070-10,585)
	kW	2.85 (0.9-3.1)
	EER	12.8

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

\*1 Max Cooling Capacity of RAS-SX10CB

**NEW**

Premium Models



MODEL	RAS-SD10CB	RAS-SD13CB
Cooling Capacity	BTU/h kW	9,730 (3,070-10,585) 2.85 (0.9-3.1)
	EER	12.8
		12,630 (3,070-14,330) 3.70 (0.9-4.2)

**10,585<sup>\*2</sup>  
BTU/h**



RAC-SX10CB / RAC-SX13CB

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

\*2 Max Cooling Capacity of RAS-SD10CB

**NEW**

Deluxe Models



**10,585<sup>\*3</sup>  
BTU/h**



RAC-SX10CB / RAC-SX13CB

MODEL	RAS-X10CB	RAS-X13CB
Cooling Capacity	BTU/h kW	9,730 (3,070-10,585) 2.85 (0.9-3.1)
	EER	12.8
		12,630 (3,070-14,330) 3.70 (0.9-4.2)

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

\*3 Max Cooling Capacity of RAS-X10CB

Deluxe Wide Model



**26%<sup>\*4</sup>  
Faster Cooling**



RAC-X18CX

MODEL	RAS-X18CX
Cooling Capacity	BTU/h kW
	17,740 (3,070-18,430) 5.20 (0.9-5.4)
	EER
	11.2

	DC Power System
	UV Fresh
	One-touch Powerful Mode
	Sleep Mode
	Reliable Fuzzy Logic Control
	Auto Restart
	Nano Titanium Air Purifying Filter
	Nano Titanium Stainless Pre-Filter
	One-touch Silent Mode
	High Energy Efficiency
	Green Fin Condenser
	Fireproof Electrical Enclosure

\*4 Comparison of the time taken for Hitachi 2.0HP models to reach 25°C from 34°C.

# Constant Speed



## UV Fresh

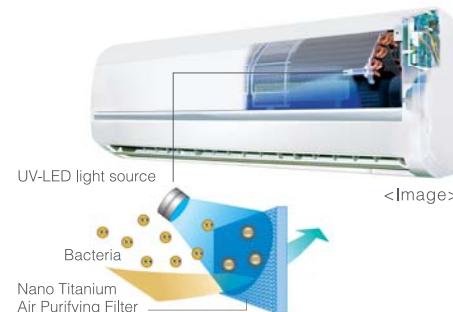


A UV-LED irradiates the Nano Titanium Air Purifying Filter with UV light which acts on the DNA of captured bacteria to deactivate them for a powerful air purifying effect. UV Fresh uses harmless UV-A that's only strong enough to have an effect on microbes. The UV-LED is durable enough to last up to 10 years.



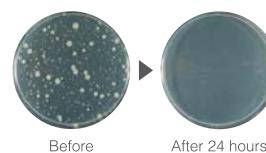
**99.99% decrease**

A laboratory experiment on *Staphylococcus aureus* bacteria with the UV Fresh shows fewer microbes after 24 hours. Tested by Japan Food Research Laboratories Approval No. 203061804-001



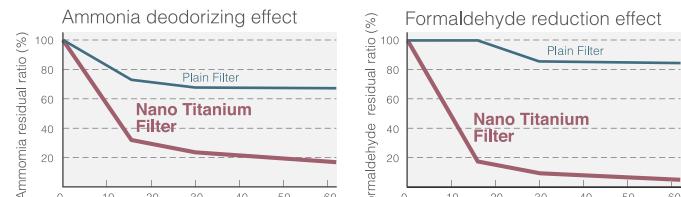
## Nano Titanium Air Purifying Filter

Deactivation effect Sample: *Esherichia coli*



**99.99% decrease**

Bacteria (sample: *Esherichia coli*) is deactivated by 99.99% in 24 hours. Tested by SIRIM QAS International Sdn. Bhd, Report No. 2004KL0100.



Test material: Nano-photo honeycomb filter (30.8x27.6cm, 5T). Reactor volume: 1 M3 Analysis: Detector tube, Flow rate through kit: 1m/s Source: Nanopac Testing Lab according to JEM 1467 Standard

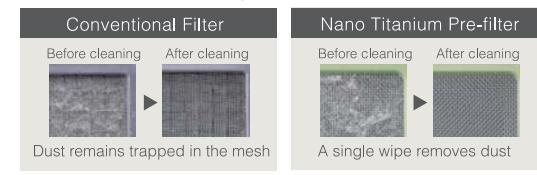
## Easy Cleaning Pre-Filter



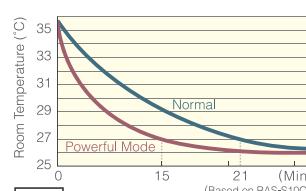
Nano Titanium Pre-Filter which contains Nano Titanium has a sleek surface. Therefore, for easy cleaning, even dust that contain grease can be removed from filters with a single wipe without using water.

Nano Titanium Pre-Filter is applicable to RAS-S10CZ, S13CY.  
Nano Titanium Stainless Pre-Filter is applicable to RAS-24CE9G, 30CE9G.

### Comparison of cleaning convenience



<Tested by Hitachi Laboratory>



## One-Touch Powerful Mode



Press the Powerful Mode button on the remote control and fan speed is increased to the Super-High Fan Mode, and the air conditioner delivers maximum performance for 20 minutes. As a result, you are instantly refreshed!

## 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.

## Deluxe Models



**10,110 BTU/h**

\*RAS-S10CZ



MODEL	RAS-S10CZ	RAS-S13CY
Cooling Capacity	BTU/h 10,110 - 10,110 kW 2.96 - 2.96	12,020 - 12,090 3.52 - 3.54
	EER 11.48 - 11.04	11.45 - 11.30

<b>DC POWER SYSTEM</b>	DC Power System
<b>One-touch Powerful Mode</b>	One-touch Powerful Mode
<b>Sleep Mode</b>	Sleep Mode
<b>Auto Restart</b>	Auto Restart
<b>GREEN FIN</b>	Green Fin Condenser
<b>Fireproof Electrical Enclosure</b>	Fireproof Electrical Enclosure
<b>Nano Titanium Pre-Filter</b>	Nano Titanium Air Purifying Filter
<b>UV Fresh</b>	UV Fresh
<b>FUZZY</b>	Reliable Fuzzy Logic Control

\* 5 Star Energy Rating: Applicable to RAS-S13CY only

## Deluxe Wide Models



### RAS-S18CAM



### RAS-24CE9G / RAC-30CE9G

MODEL	RAS-S18CAM
Cooling Capacity	BTU/h 17,410 - 17,750 kW 5.10 - 5.20
	EER 9.73 - 9.10

<b>DC POWER SYSTEM</b>	DC Power System
<b>Nano Titanium Air Purifying Filter</b>	Nano Titanium Air Purifying Filter
<b>Sleep Mode</b>	Sleep Mode
<b>GREEN FIN</b>	Green Fin Condenser
<b>High Energy Efficiency</b>	High Energy Efficiency
<b>Reliable Fuzzy Logic Control</b>	Reliable Fuzzy Logic Control
<b>Auto Restart</b>	Auto Restart
<b>Fireproof Electrical Enclosure</b>	Fireproof Electrical Enclosure

MODEL	RAS-24CE9G	RAS-30CE9G
Cooling Capacity	BTU/h 24,060 - 24,060 kW 7.05 - 7.05	29,180 - 29,520 8.55 - 8.65
	EER 11.06 - 10.69	9.73 - 9.43

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

# Constant Speed

## Standard Models



RAC-E10CZ

MODEL	RAS-E10CZ	
Cooling Capacity	BTU/h kW	9,210 - 9,210 2.70 - 2.70
EER	10.47 - 10.06	



RAS-E13CY

MODEL	RAS-E13CY	
Cooling Capacity	BTU/h kW	11,950 - 12,020 3.50 - 3.52
EER	10.86 - 10.73	



\* 5 Star Energy Rating: Applicable to RAS-E13CY only

## Standard Wide Models



MODEL	RAS-E18CY	RAS-E24CY
Cooling Capacity	BTU/h kW	17,410 - 17,750 5.10 - 5.20
EER	9.73 - 9.10	22,190 - 22,190 6.50 - 6.50



# Window Type

## Air Purification



Hitachi Twin Flow models feature the Nano Titanium Air Purifying Filter which is statically charged and treated to provide powerful antibacterial and deodorizing effects.

\* The TiO<sub>2</sub> catalyst has a bacteria elimination and deodorizing effect. Please refer to page 19 for details.

## Nano Titanium Pre-Filter



Hitachi's unique "Nano Titanium Pre-Filter" features a coating on 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.

## 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.

## Auto Swing

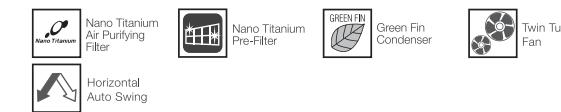
Vertical air flow from the left and right sides is delivered by the automatic horizontal movement of the air deflectors over a wide angle to cool the entire room uniformly.

## 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-10KF	
Cooling Capacity	BTU/h kW	9,010 - 9,010 2.64 - 2.64
EER	10.01 - 9.30	



MODEL	RA-13KF	
Cooling Capacity	BTU/h kW	13,145 - 13,145 3.85 - 3.85
EER	10.26 - 10.19	



## Hitachi and the White Bear

As a manufacturer, Hitachi will continue to promote environmentally friendly products. With global warming posing a serious threat to the survival of the polar bear, a white bear character, symbolizing global environmental conservation, has been adopted as the mascot for Hitachi room air conditioners. From since the first white bear symbol was used back in 1959, the Hitachi white bear has been beloved by thousands of people for more than half a century. The white bear represents our history of meeting the challenges of global conservation.



# Ceiling Mounted Cassette Type



MODEL	RAI-18C
BTU/h	17,070 - 17,070
Cooling Capacity kW	5.00 - 5.00
EER	9.43 - 8.98



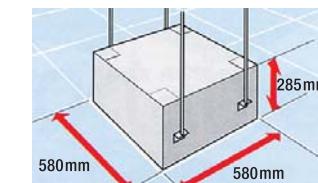
## Easy Fitting

The compact design enables it to fit easily into standard ceiling modules and requires less installation work.

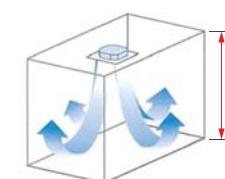


## Compact

With a height of just 285mm, it can easily be installed in a small roof space.



## Usable for high ceiling space



Hitachi cassette type air conditioners provide comfortable air conditioning throughout a high ceiling space.

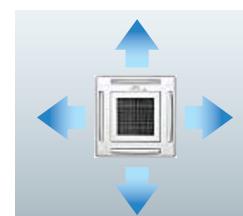
## Silent

The compact 3-dimensional twisted Turbo fan helps reduce air flow resistance for quieter operations.



## Automatic Swing Louvre

An automatic swing louvre ensures even distribution of cool air throughout the room.

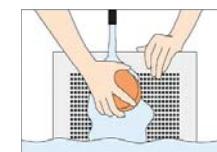


## 4-Way Air Flow

Multi directional air flow provides maximum cooling performance.

## One-Touch Panel

With just one push, the panel can be swung open up to 90 degrees so that the filter can be removed for cleaning.



## Auto Restart

If auto restart mode was selected at the On/Off switch, the unit automatically resumes operation in the previous mode after a power failure.

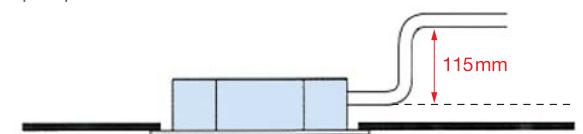


## Built-In Drain Pump

The air conditioner is equipped with an internal drain pump to remove accumulated condensed water from the drain pan even while it is operating. A float switch monitors the water level and automatically activates the pump as necessary.



A drain pump lift of up to 115mm from the ceiling surface is achieved by employing a drain up mechanism with high pump lift.



## Stain Resistant Wide Louvre

The wide louvre enables smoother airflow, prevents smudging, and stains on the ceiling surface. Having no flocking, the louvre is stain resistant and dirt can be easily wiped off.



# Durability and Safety Technologies

## Fireproof Electrical Enclosure

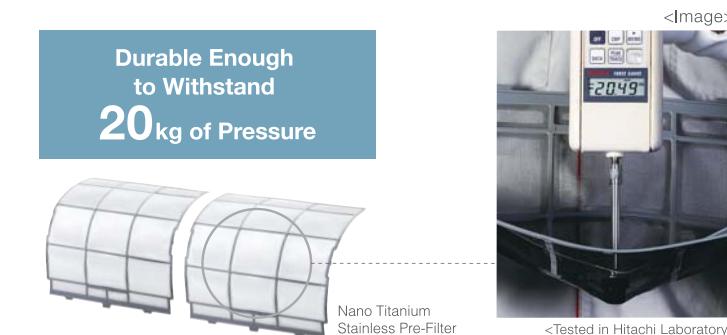
Hitachi prides itself on meeting the highest international manufacturing standards and insists on using 100% metal housing to enclose and tightly seal its electrical and electronic components. This ensures there is virtually no possibility of fire spreading and posing a safety hazard to our consumers. Customer safety is Hitachi's top priority.



## Pre-Filter Durability

### Durability Test

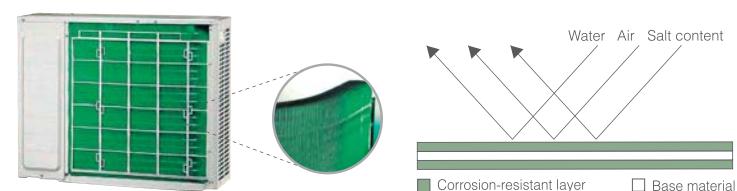
A durability test has confirmed Hitachi's filter durability. The Nano Titanium Stainless pre-filter can bear up to 20kg of pressure without suffering any damage.



## Anti-Corrosion, Anti-Rust

### 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.



### Outdoor Anti-Corrosion Casing

Hitachi outdoor units are rustproof thanks to a full coating of anti-rust paint from the top all the way to the base.



## Putting Quality First

We pride ourselves on meeting the highest international manufacturing standards, and perform as many as 57 tests to assure user safety, product reliability and user comfort. As a manufacturer, Hitachi places its top priority on customer safety and satisfaction.

User Safety
High voltage puncture test
Sudden failure test
Fire enclosure self extinguish test etc...

Product Reliability
Extreme temperature overload test
Flooded refrigerant life test
Electrical water infiltration test etc...

User Comfort
Cooling capacity performance test
Low voltage startup assurance
Dew formation prevention test etc...



# Feature Comparisons

	ALL DC INVERTER				CONSTANT SPEED					WINDOW	CEILING CASSETTE
	Premium Luxury Design	Premium	Deluxe	Deluxe	Deluxe Wide	Standard	Standard	Standard Wide			
	RAS-SX10CB RAS-SD10CB RAS-SD13CB	RAS-X10CB RAS-X13CB	RAS-X18CX	RAS-S10CZ RAS-S13CY	RAS-S18CAM RAS-24CE9G RAS-30CE9G	RAS-E10CZ	RAS-E13CY	RAS-E18CY RAS-E24CY			
<b>Clean</b>	<b>Stainless Clean</b>	●	●								
	<b>UV Fresh</b>	●	●			●					
	<b>Nano Titanium Stainless Pre-Filter</b>	●	●		●			●			
	<b>Nano Titanium Pre-Filter</b>				●					●	
	<b>Anti Mold Pre-Filter</b>			●			●		●	●	●
	<b>Nano Titanium Wasabi Air Purifying Filter</b>	●	●	●							
	<b>Nano Titanium Air Purifying Filter</b>			●	●	●	●			●	
	<b>Washable Antibacterial Air Purifying Filter</b>									●	
	<b>Washable Front Panel</b>	●	●	●	●	●	●	●	●	●	
	<b>Detachable Washable Front Panel</b>										●
<b>Comfort</b>	<b>Powerful Mode</b>	●	●	●		●		●			
	<b>Silent Mode</b>	●	●	●				●			
	<b>Fuzzy Logic Control</b>	●	●	●	●	●	●	●	●	●	●
	<b>Sleep Mode</b>	●	●	●	●	●	●	●	●	●	●
	<b>Sensor Dry Operation</b>	●	●	●	●	●	●	●	●	●	●
	<b>Vertical Auto Swing</b>	●	●	●	●	●	●	●	●	●	●
	<b>Horizontal Auto Swing</b>							●			●
	<b>Fan Speed</b>	4 Grades	4 Grades	4 Grades	3 Grades	3 Grades	3 Grades	3 Grades	3 Grades	2 Grades	3 Grades
	<b>Seamless Fan Speed Control</b>	●	●	●							
	<b>Air Exhaust System</b>									●	
<b>Energy Saving</b>	<b>Easy-to-use Remote Controller</b>	●	●	●	●	●	●	●	●	●	●
	<b>24-hr Timer</b>							●			●
	<b>12-hr Timer</b>	●	●	●	●	●	●	●	●		
	<b>Changeable Drain Hose</b>	●	●	●	●	●	●	●	●		
	<b>Drainless Splash System</b>									●	
<b>Reliability</b>	<b>DC Power System</b>	●	●	●	●	●	●	●	●	●	●
	<b>Auto Restart</b>	●	●	●	●	●	●	●	●	●	●
	<b>Fireproof Electrical Enclosure</b>	●	●	●	●	●	●	●	●		
	<b>Green Fin Anti-Corrosion</b>	●	●	●	●	●	●	●	●	●	●
	<b>Anti-Rust Outdoor Casing</b>	●	●	●	●	●	●	●	●		
	<b>3-Minute Delay Circuit</b>	●	●	●	●	●	●	●	●		
	<b>Twin Rotary Compressor</b>				●						●
<b>Twin Turbo Fan</b>											