Air Conditioner

HITACHI
Inspire the Next

HITACHI
Inspire the Next

UPGRADE FOR LIFE

With the latest advanced technology and the trust that comes with a 100-year reputation for reliability, Hitachi home appliances are the ultimate choice for every room, in every home.

Featuring smart human-friendly designs, advanced eco-conscious technologies and quality materials, Hitachi home appliances accentuate your everyday life. Upgrade for Life.

O0217

10 YEARS COMPRESSORS WARRANTY   **7** YEARS COMPRESSORS WARRANTY   **2** YEARS GENERAL WARRANTY

Have you registered your warranty online?

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

Hitachi Sales (Malaysia) Sdn. Berhad (11543-v) Customer Careline: 1 800 88 1122
Website: www.hitachiconsumer.com.my | Email: marketing.hsm.tf@hitachi.com | Mon - Fri 9.00am - 5.45pm | ⨍ ▶ You Tube Hitachi Sales Malaysia

UPGRADE FOR LIFE

eco CHOICE

Vector DC Inverter x Scene Camera Ceiling

SCENE CAMERA CEILING

Welcome Breeze
Extra cool wind target blown to you when coming home.

Air Sleep Ceiling
Ideal air flow, temperature control and silence for good sleep.

SCENE CAMERA CEILING
Smart analysis and auto-operation for fast, efficient and comfortable cooling.

SCENE CAMERA CEILING

Finds heat spots in your room

Scene Camera Ceiling monitors both human and room conditions to auto-select the best cooling solution to reach an even room temperature faster.

Ceiling Heat from Sun:
40°C

Thermal Camera

Heat Distribution Monitoring

Heated roof and ceiling are two of the key causes of slow and inefficient cooling. Thermal Camera monitors room heat distribution to smartly reduce heat at the source.
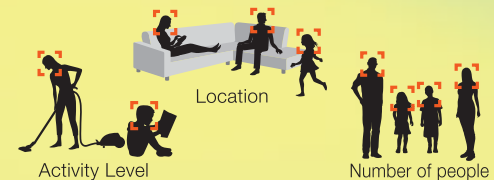
47.0

38.0

23.0

Actual Thermal Distribution in South East Asia.

Image Camera

Human Activity & Location Monitoring

Detects human activity level and location of each person to smartly control set temperature and air flow direction depending on the scene.

Location

Activity Level

Number of people

Wall Temp:
28°C

Sunlight heat:
38°C

Around 27°C

Around 30°C

Around 2m

Activity Level: Low
Location: Close

Around 6m

Activity Level: High
Location: Far

Condition: Asleep
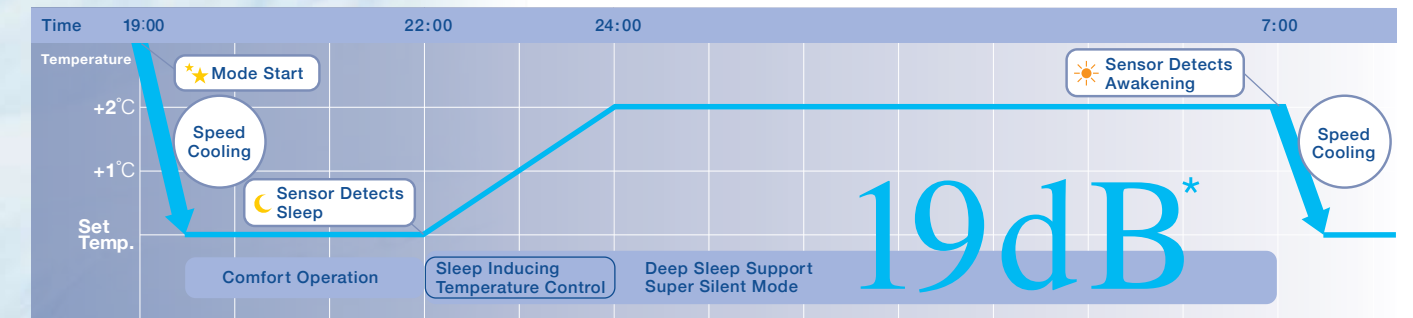
*Feature Introduction based on RAS-VX10CG/ VX13CG.

Air Sleep Ceiling

Scene Camera Ceiling smartly works to have ideal air flow control, temperature and silence best for sleep.

Ideal Air Flow Control

1. Ceiling Flow

The ceiling on the top floor is likely to be a highly heated part of your room.
When the heat source is detected, the ceiling is targeted for cooling. At the same time, a tornado flow is generated that blows chilled air along the ceiling and walls to softly wrap you with chilly air for fast, even cooling.

38.0
23.0
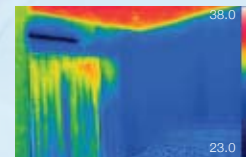
Actual bedroom thermal distribution in Thailand
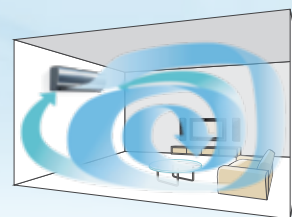
Chilly air widely spread in the room along ceiling and walls.

2. Human Targeted Flow

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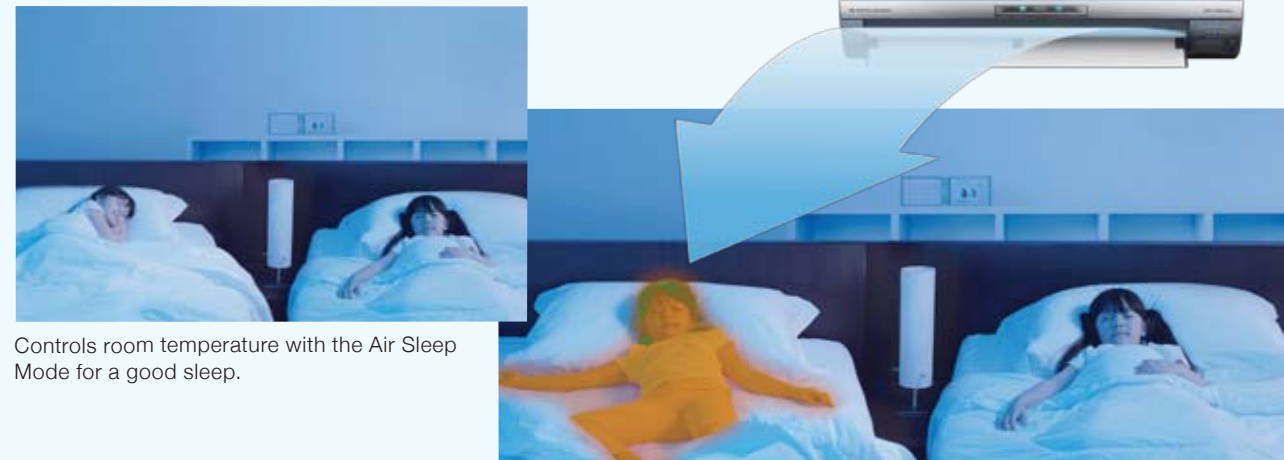
Controls room temperature with the Air Sleep Mode for a good sleep.

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.

*Feature Introduction based on RAS-VX10CG/ VX13CG.

Ideal Temperature Control

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.
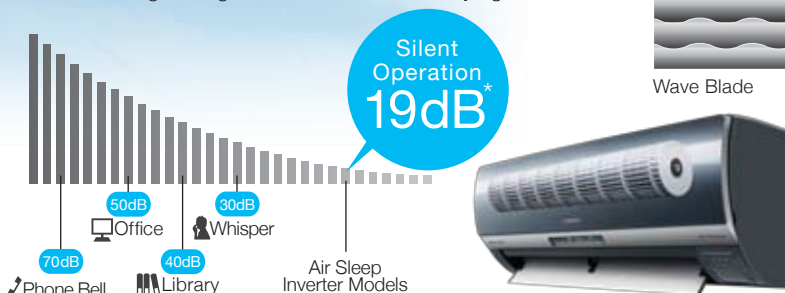
| Time | 19:00 | | 22:00 | 24:00 | | 7:00 |

Temperature

Mode Start

Sensor Detects Awakening

+2℃

Speed Cooling

Speed Cooling

+1℃

Sensor Detects Sleep

Set Temp.

19dB*

Comfort Operation

Sleep Inducing Temperature Control

Deep Sleep Support Super Silent Mode

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

Average Arousal Time during Sleep

(min)
20
15
10
5
0

Less Disrupted Sleep

Cooling Mode   Air Sleep Mode

Average Sleep Efficiency

(%)
100
95
90
85
80

Upgraded Sleep Quality

Cooling Mode   Air Sleep Mode

Sleep Efficiency Improved

Test revealed that Air Sleep mode has significantly reduced arousal time during sleep, and enhanced sleep efficiency.

National Institute of Advanced Industrial Science and Technology
AIST

Dr. Kazuyo Tsuzuki Ph.D.
Principal Research Manager
Environmental Control Research Group
Human Technology Research Institute

19dB Silent Operation

19dB silence is realized by Wave Blade Indoor Fan technology. Wave-shaped fan blades vary the timing of each blade cutting through the air to reduce annoying wind noise.
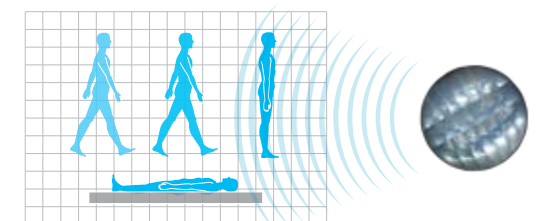
Wave Blade

Silent Operation
19dB*

50dB Office
30dB Whisper
70dB Phone Bell
40dB Library
Air Sleep Inverter Models

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

Air Sleep Sensor

Air Sleep Sensor works together with Scene Camera Ceiling to check human movement and sleep/wake conditions.
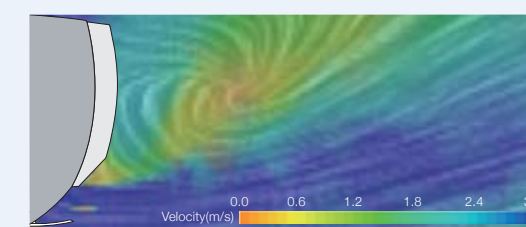
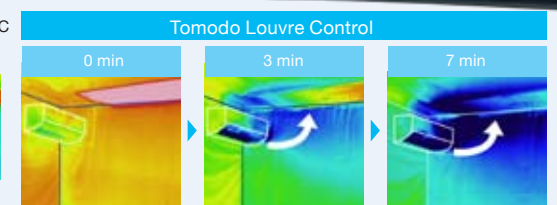Air Sleep Sensor

Tornado Louvre Control

Hitachi Original

Hitachi's Air conditioner controls the louvre position to create a tornado of air flow that uplifts the air flow to reach the ceiling. This air flow then runs along the ceiling and walls to widely circulate in the room.

0.0   0.6   1.2   1.8   2.4   3.0
Velocity(m/s)

*Tested by Hitachi Test Lab. RAS-VX10CG/ VX13CG

29°C   16°C

Normal Cooling
Heating Panel

Room is cooled, but the ceiling kept hot.

Tomodo Louvre Control
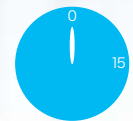0 min   3 min   7 min

Air is send upward and cools the ceiling, as well as the room temperature.
*Tested in Hitachi Testing Room.

WelcomeBreeze

Extra cool wind welcomes you when coming home on a hot day.
After you have cooled down, it will auto shift to Heat Source Cooling operation depending on the room heat distribution.

At Start up

Welcome Target Flow

Image Camera detects human location and targets it with extra cold, max. fan speed air flow for the first 15 min.
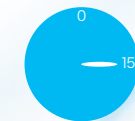
Detects Human Location

Air Flow Target Blown to People

Instant Chill with Extra Cold Air

Powerful Start Up with Max. Fan Speed

W.Breeze

One Touch ON

HITACHI
SCENE CAMERA

One Touch On
W.Breeze Air Sleep Cool Refresh
Powerful Silent
Off Timer
On Timer
Left/Right Smart Sw

After 15 min

Heat Source Cooling

After 15 min, Scene Camera Ceiling detects room heat distribution and smartly controls the air flow to preferentially cool the heat source for faster and even cooling.

Top floor room with heated ceiling

Blow longer time

Blow shorter time

Cooling focused on hot ceiling by up and down swing with longer air blow targeting ceiling to cool it down.

High heat load on the ceiling

Sunny day with curtains open

Blow longer time

Blow shorter time

Cooling focused on hot window by left and right swing with longer air blow targeting window to cool it down.

High heat load from the window

When room is evenly cooled

Surrounding flow to avoid over cooling.

Even temperature distribution

*Feature Introduction based on RAS-VX10CG/ VX13CG.

Eco Mode

Scene Camera Ceiling detects energy wasting and smartly cools with minimum energy for just the right level of comfort in various scenes.

Activity Level, Location and Sunny Areas

Scene Camera Ceiling detects the location, activity level of individuals and sunny areas to make adjustments to provide the most comfortable, energy saving cooling possible.

Low Activity level. Away from sunny area.

Soft cooling

Energy saving

Softly cools people with low activity and away from sunlight.

Away from a sunny area.

High Activity level. Close to sunlight.
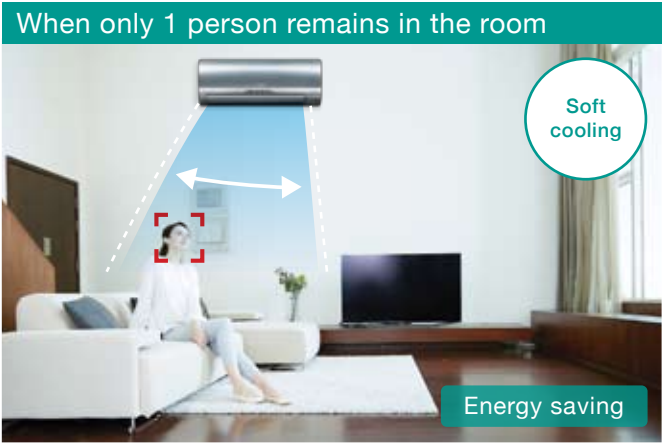
Air is blown for a longer time

Comfort

Cool air is sent longer to the people in the sunny areas with higher activity level. Swings air for a shorter time for those with lower activity level.

*Feature Introduction based on RAS-VX10CG/ VX13CG.

Number of People in the Room

Scene Camera Ceiling 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 3 people are together

Comfort cooling
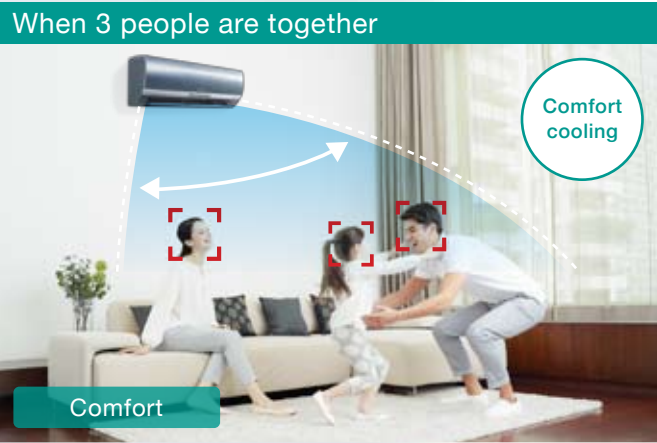
Comfort

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

When only 1 person remains in the room

Soft cooling

Energy saving

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

Comfort

Soft cooling

Energy saving

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

Auto Off

Stop

Energy saving

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

Auto On

Comfort

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.

Refresh Mode

Refresh mode automatically controls temperature and compressor operation to increase chillness of the wind and reduce sensual humidity for upgraded refreshing feeling.
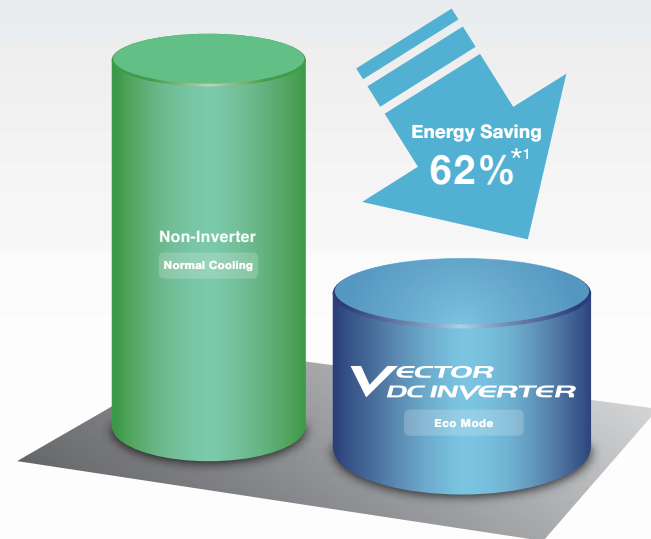
VECTOR DC INVERTER

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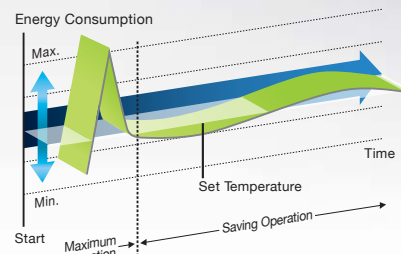
Energy Saving

A combination of the Vector DC Inverter and Scene Camera Ceiling can cut energy consumption by up to 62%[*1] compared to non-inverter models! So you can stay comfortable all day, and save energy at the same time.

Energy Saving
62%[*1]

Non-Inverter
Normal Cooling

VECTOR DC INVERTER
Eco Mode

Inverter

Energy Consumption
Max.
Min.
Start
Maximum Operation
Saving Operation
Set Temperature
Time

With Vector DC 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

Energy Consumption
Max.
Min.
Start
Loss
Set Temperature
Time
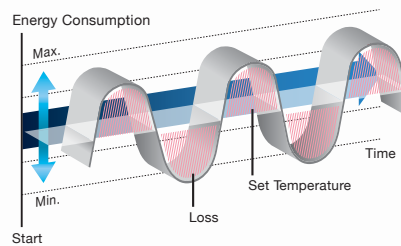
Non-inverter models can only operate with simple on-off controls. Trying to maintain temperature by repeatedly switching power on and off consumes much more electricity and results in bigger temperature fluctuations.

*1 RAS-VX13CG (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℃, Set temperature: 25℃, 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 closed to cut the amount of sunlight to a low level. Ambient temperature lower than the set temperature.

Powerful Cooling

The Vector DC Inverter system, wide air inlet and indoor fan enable top class cooling capacity and big air volume for upgraded comfort.

31%[*2]**Bigger**

Large Air Inlet
More Air Intake

Large Indoor Fan
Bigger Air Volume
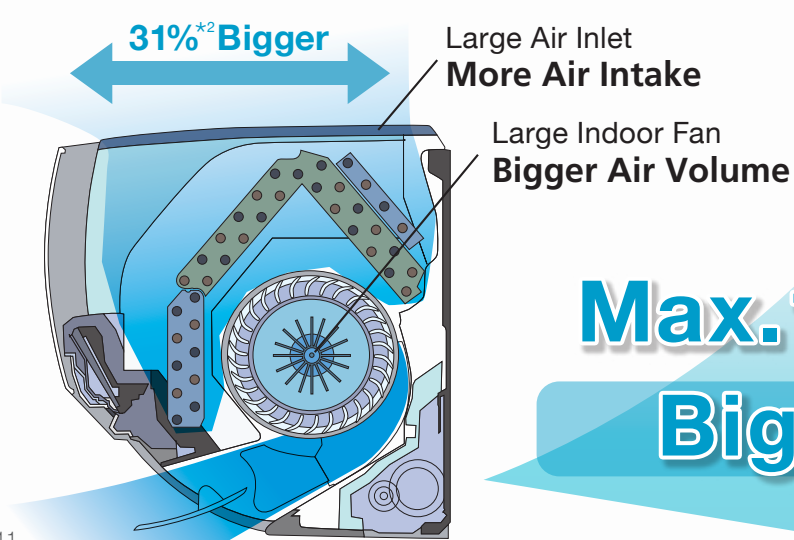
Max.14,330 BTU/h![*3]

Big Air Volume

*2 RAS-VX10CG/ VX13CG compared to RAS-SX10CD/SX13CD/SD10CD/SD13CD
*3 Max. cooling capacity of RAS-VX13CG.

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

7:00   12:00   18:00   0:00   6:00

Air Conditioner OFF Stand By Time | Air Conditioner ON
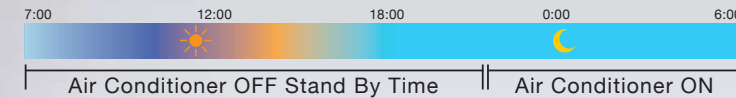
0.9W Standby Energy

82%[*4]
Reduced

*4 RAS-VX13CG compared to RAS-SX10CD/ SX13CD/ SD10CD/ SD13CD.
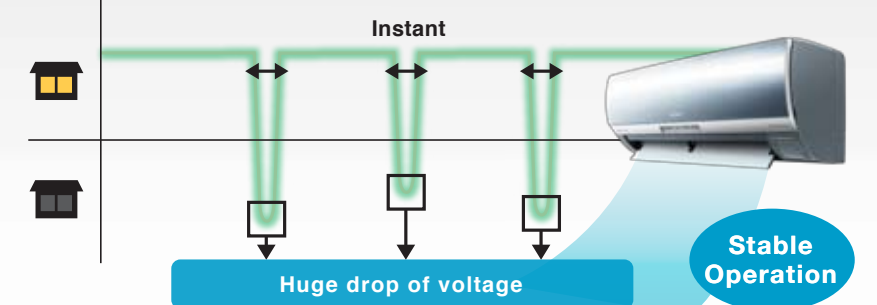
Reliable Operation

Vector DC Inverter

Hitachi Original

Case 1

**Instantaneous Power Failure : Non Stop Operation**

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

Instant

Huge drop of voltage

Stable Operation

Case 2

Power Failure : Auto Restart at Previous Setting

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

Power Failure

0 V

Memorizes operation setting before power failure.

Auto Restart
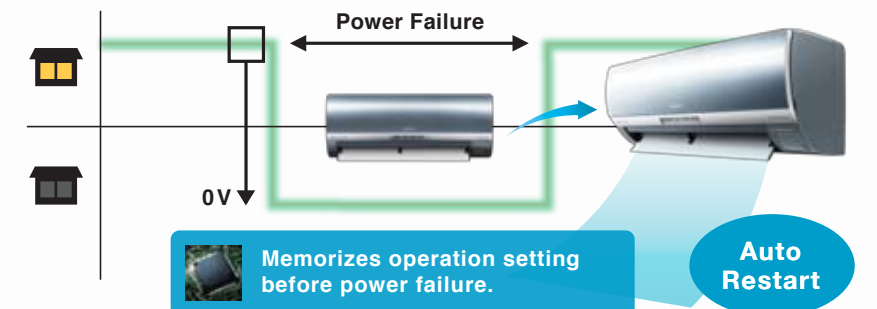
What is the Vector DC Inverter System?

The Vector DC 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.
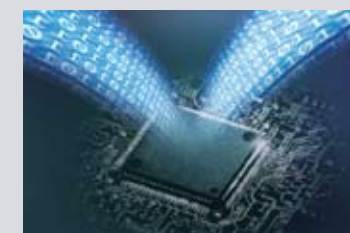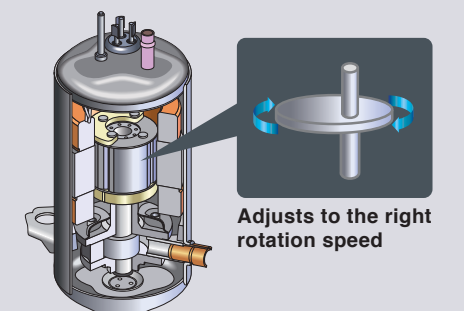
Vector DC Inverter
Microcomputer

Precise motor rotation control

Adjusts to the right rotation speed

Motor current data

STAINLESS CLEAN System

Hitachi Original

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

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.
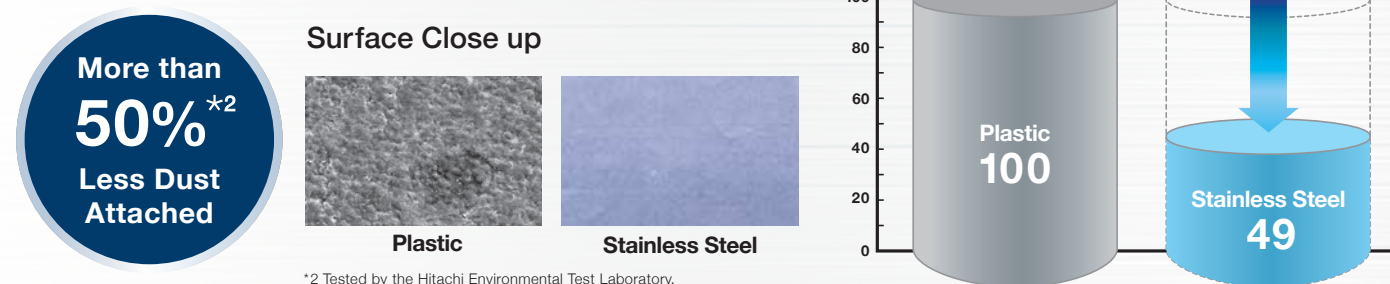
Antibacterial Sanitizing

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.

Bacteria reduced by a max. of 99%*1

Bacteria   Stainless Steel

Antibacterial Test

310,000 bacteria

After 24 hours

Non Stainless — 650,000 (Increased)

Stainless — 10 Left (Decreased)

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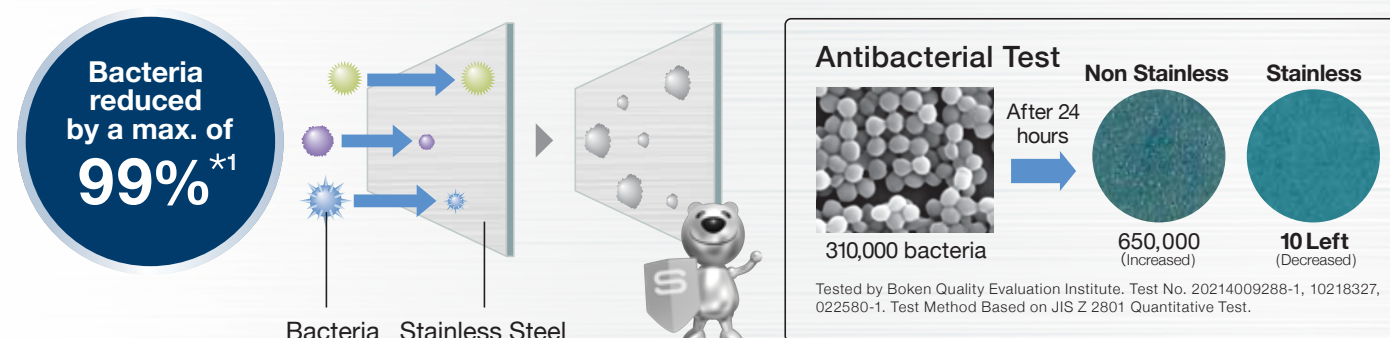
Dust Cut

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.

More than 50%*2 Less Dust Attached

Surface Close up
Plastic | Stainless Steel

*2 Tested by the Hitachi Environmental Test Laboratory.

Dust Accumulation Comparison

(%) 100 80 60 40 20 0

Plastic **100**

Stainless Steel **49**

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.
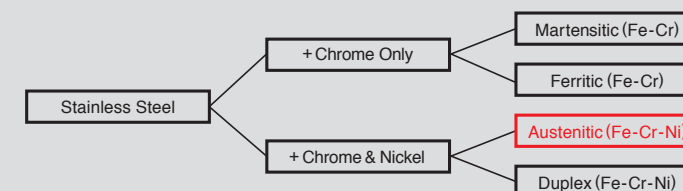
Did You Know?

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

Conventional Hitachi model (RAS-409GX2).
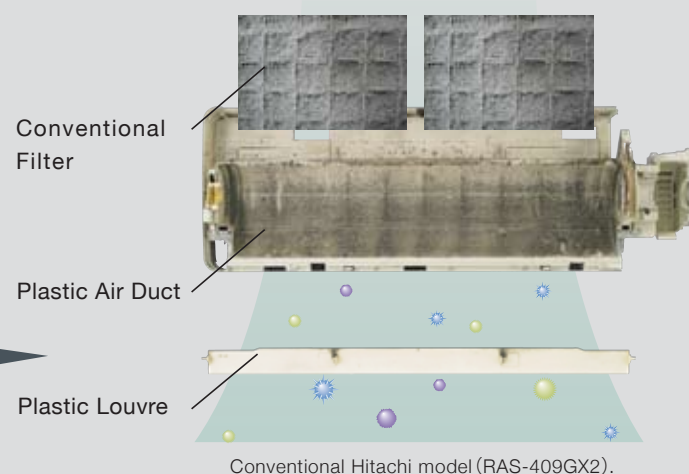
High Quality Stainless Steel

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.

Stainless Steel
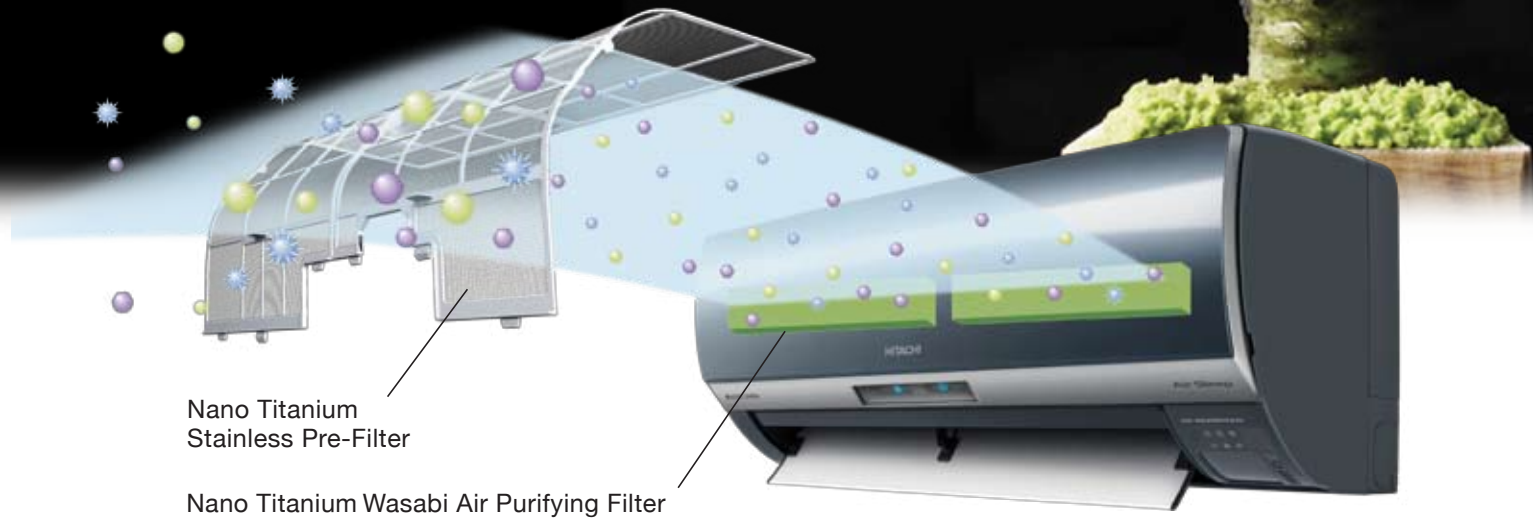- + Chrome Only → Martensitic (Fe-Cr)
- + Chrome Only → Ferritic (Fe-Cr)
- + Chrome & Nickel → Austenitic (Fe-Cr-Ni)
- + Chrome & Nickel → Duplex (Fe-Cr-Ni)

* Applicable to Stainless louvre and air duct.

○Images are for illustrative purposes only.

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

Effect		Test Agency	Test Method
	99% Antibacterial	University Putra Malaysia	Testing Method: Based on JIS Z2801:2000 Bacteria Sample: Staphylococcus Aureus
	95% Anti-Allergen	International Medical University Malaysia	Testing Method: 6 hours ELIZA Assay Allergen Sample: Dust Mite Allergen
	82% Odor Removal	Nanopac Testing Lab	Testing Method: Gas detector tube method Odor Sample: Ammonia
	98% Violate Organic Compounds Suppression	Nanopac Testing Lab	Testing Method: Gas detector tube method VOC Sample: Formaldehyde
	Mold Suppression	Nanopac Testing Lab	Testing Method: Comparison of 2 slices of fresh bread left in separate acrylic chambers, with and without the Nano Titanium Wasabi Solution for 2 weeks. No mold has grown on the bread with Nano Titanium Wasabi Solution, while bread without were covered with mold.

UVFresh

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

Air Intake

Nano Titanium Wasabi Air Purifying Filter

Bacteria

UV-LED

UV-LED

Clean Air

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

○Images are for illustrative purposes only.

One-Touch Powerful Mode

A press of the button will instantly start powerful cooling operation, which makes the air flow reach much further to quickly cool the room with maximum cooling power.

Powerful Mode (Extended Airflow)

Normal Operation
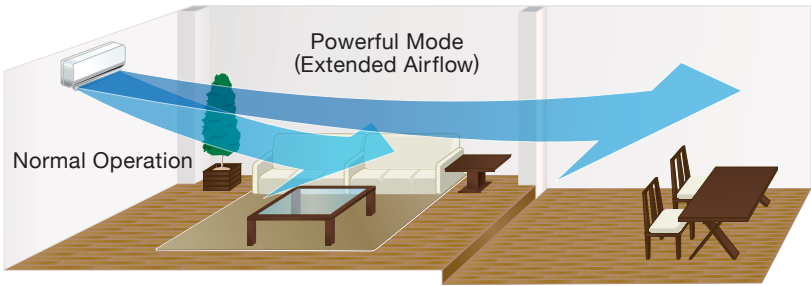
One-Touch Silent Mode

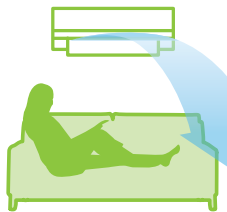A press of a button instantly starts the silent operation.

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

Indirect Swing

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

Anti-Corrosion, Anti-Rust

Green Fin Condenser

GREEN FIN

With its special anti-corrosion green coating, the Green Fin Condenser lasts up to 3 times as long as standard types.

Water Air Salt content

Corrosion-resistant layer   Base material
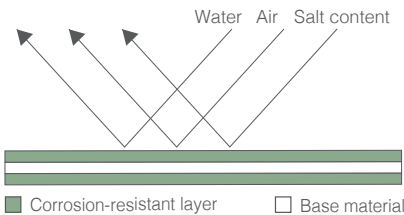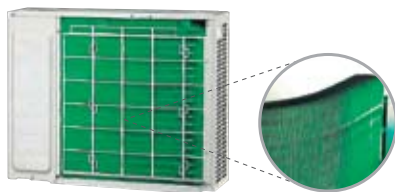
Fireproof Electrical Enclosure

Hitachi uses 100% metal housing to enclose and tightly seal its electrical and electronic components. This ensures there is virtually no possibility of fire spreading.

Premium Inverter

VX Scene Camera Series

RAS-VX10CG/ RAS-VX13CG

Specification

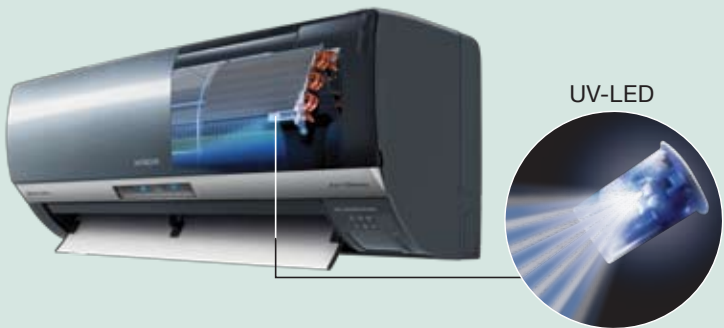| Model			RAS-VX10CG	RAS-VX13CG
	Indoor		RAS-VX10CG	RAS-VX13CG
	Outdoor		RAC-VX10CG	RAC-VX13CG
Phase, Voltage, Frequency		Φ,V,Hz	1Φ,50Hz,220-230V	
Cooling Capacity		kW	2.85(0.9-3.5)	3.6(0.9-4.2)
		BTU/h	9,730(3,070-12,000)	12,284(3,070-14,330)
EER		BTU/h·W	15	13
Total Input		W	648(210-1,190)	943(330-1,280)
Total Amperes		A	3.40-3.25	4.95-4.70
Airflow (HH/H/M/L/Silent)		m³/min	12.0/11.0/9.5/7.5/4.5	12.0/11.0/9.5/7.5/4.5
Indoor Sound Level (HH/H/M/L/(Ss))		dB	44/42/37/32/19(19)	48/47/40/33/19(19)
Dehumidifying Capacity		L/h	1.6	1.6
Maximum Length/Height of Piping		m	20/10	20/10
Diameter for Pipe - Gas/ Liquid		mm	9.52/ 6.35	9.52/ 6.35
Power Supply			Indoor	Indoor
Net Dimensions	Indoor (W×H×D)	mm	790x300x280	790x300x280
	Outdoor (W×H×D)	mm	750x570x280	750x570x280
Net Weight	Indoor/Outdoor	kg	10/32	10/32
Refrigerant			R410A	R410A

Outdoor

Anti Corrosion Green Fin

RAC-VX10CG/ VX13CG

SCENE CAMERA CEILING
Air Sleep Ceiling
Welcome Breeze
STAINLESS CLEAN
VECTOR DC INVERTER

Key Features

1 ON Button / Refresh Mode
Refresh mode automatically controls temperature and compressor operation to increase chillness and reduce sensual humidity.

2 Air Sleep Ceiling / Eco Mode
Air Sleep Ceiling:
Scene Camera Ceiling and Air Sleep Sensor works to automatically select best temperature, air flow and silence good for sleep.

Eco Mode:
Scene Camera Ceiling works to automatically select best temperature and air flow good for energy saving & comfort.

3 Welcome Breeze
Target cools human with extra cold and powerful air flow for the first 15 min. Auto shift to Heat Source Cooling after 15 min.

4 Silent Mode

5 Off Button

6 Powerful Mode

7 Dry Mode

8 Set Temperature Selector

9 Off Timer Button

10 Fan Speed Selector

11 On Timer Button

12 Up/Down Air Flow Control

13 Swing Mode Selector

14 Left/Right Air Flow Control

HITACHI
SCENE CAMERA
One Touch On
Cool/Refresh
W.Breeze · Air Sleep · On
Reset
Powerful · Off · Silent
Off Timer · Dry
On Timer · Fan Speed
Left/Right · Swing Mode · Up/Down

RAS-VX10CG / VX13CG

Deluxe Plus Inverter

SX

Air Sleep
STAINLESS CLEAN
VECTOR DC INVERTER

RAS-SX10CD / RAS-SX13CD

RAS-SX10CD / RAS-SX13CD

Specification

Model			RAS-SX10CD	RAS-SX13CD
	Indoor		RAS-SX10CD	RAS-SX13CD
	Outdoor		RAC-SX10CD	RAC-SX13CD
Phase, Voltage, Frequency		Φ,V,Hz	1Φ,50Hz,220-230V	
Cooling Capacity		kW	2.85(0.9-3.4)	3.7(0.9-4.2)
		BTU/h	9,730(3,070-11,500)	12,640(3,070-14,330)
EER		BTU/h·W	13.10	12.15
Total Input		W	740(210-1,190)	1,040(330-1,280)
Total Amperes		A	4.32-4.13	5.91-5.65
Airflow (HH/H/M/L/Silent)		m³/min	12.0/11.0/9.0/8.0/3.5	12.0/11.0/9.5/7.5/3.5
Indoor Sound Level (HH/H/M/L/(Ss))		dB	44/42/37/32/19(19)	48/47/40/33/19(19)
Dehumidifying Capacity		L/h	1.4	1.6
Maximum Length/Height of Piping		m	20/10	20/10
Diameter for Pipe - Gas/ Liquid		mm	9.52/6.35	9.52/6.35
Power Supply			Outdoor	Outdoor
Net Dimensions	Indoor (W×H×D)	mm	790x300x230	790x300x230
	Outdoor (W×H×D)	mm	700x468x258	700x468x258
Net Weight	Indoor/Outdoor	kg	9/23	10/24
Refrigerant			R410A	

Outdoor

RAC-SX10CD/ SX13CD

Anti Corrosion Green Fin

1 On Button

2 Dry Mode

3 Air Sleep Mode
Air Sleep Sensor works to auto select temperature control and silence good for sleep.

4 Powerful Mode

5 Off Button

6 Silent Mode

7 Fan Speed Selector

8 Set Temperature Selector

9 Off Timer Button

10 Up/Down Air Flow Direction Selector

11 On Timer Button

Deluxe Inverter
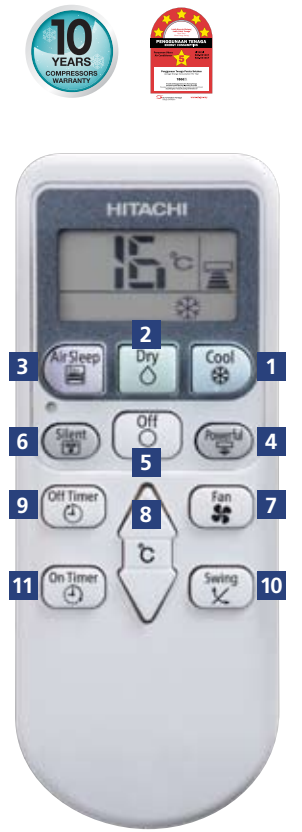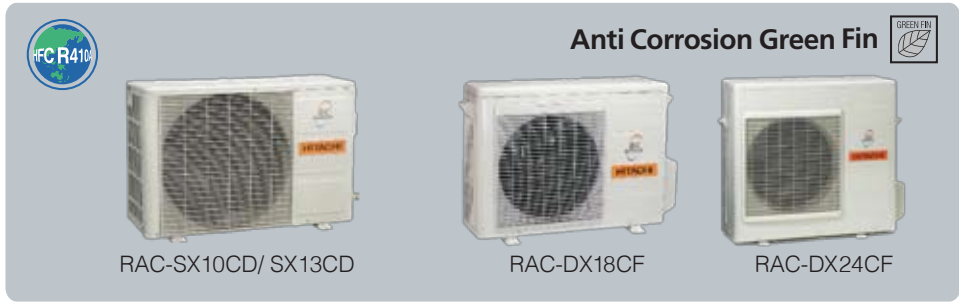
SD DX

Air Sleep
STAINLESS PRE FILTER
VECTOR DC INVERTER

RAS-SD10CD / RAS-SD13CD

RAS-DX18CF / RAS-DX24CF

RAS-SD10CD / RAS-SD13CD
RAS-DX18CF / RAS-DX24CF

Model			RAS-SD10CD	RAS-SD13CD	RAS-DX18CF	RAS-DX24CF
	Indoor		RAS-SD10CD	RAS-SD13CD	RAS-DX18CF	RAS-DX24CF
	Outdoor		RAC-SX10CD	RAC-SX13CD	RAC-DX18CF	RAC-DX24CF
Phase, Voltage, Frequency		Φ,V,Hz	1Φ 50Hz,220-230V			
Cooling Capacity		kW	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(3,070-11,500)	12,640(3,070-14,330)	17,740(3,070-18,430)	22,180(5,117-27,299)
EER		BTU/h·W	13.10	12.15	11.20	11.35
Total Input		W	740(210-1,190)	1,040(330-1,280)	1,580(335-2,200)	1,960(200-2,820)
Total Amperes		A	4.32-4.13	5.91-5.65	8.95-8.55	9.00-8.60
Airflow (HH/H/M/L/Silent)		m³/min	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/(Ss))		dB	44/42/37/32/19(19)	48/47/40/33/19(19)	48/47/41/32/26(-)	49/48/41/34/28(-)
Dehumidifying Capacity		L/h	1.4	1.6	2.8	4.5
Maximum Length/Height of Piping		m	20/10	20/10	20/10	30/20
Diameter for Pipe - Gas/ Liquid		mm	9.52/6.35	9.52/6.35	12.70/6.35	15.88/9.35
Power Supply			Outdoor	Outdoor	Outdoor	Outdoor
Net Dimensions	Indoor (W×H×D)	mm	790x300x230	790x300x230	900x300x230	900x300x230
	Outdoor (W×H×D)	mm	700x468x258	700x468x258	750x570x280	850x800x298
Net Weight	Indoor/Outdoor	kg	9/23	10/24	10/37	10/53
Refrigerant			R410A			

Outdoor

Anti Corrosion Green Fin

RAC-SX10CD/ SX13CD

RAC-DX18CF

RAC-DX24CF

1 On Button

2 Dry Mode

3 Air Sleep Mode
Air Sleep Sensor works to auto select temperature control and silence good for sleep.

4 Powerful Mode

5 Off Button

6 Silent Mode

7 Fan Speed Selector

8 Set Temperature Selector

9 Off Timer Button

10 Up/Down Air Flow Direction Selector

11 On Timer Button

Standard Type

F

RAS-F10CG1

RAS-F13CF

RAS-F18CF

RAS-F24CF

*3 Star only applicable for RAS-F10CG1

RAS-F10CF/ RAS-F13CF
RAS-F18CF/ RAS-F24CF

Specification

Model			RAS-F10CG1	RAS-F13CF	RAS-F18CF	RAS-F24CF
	Indoor		RAS-F10CG1	RAS-F13CF	RAS-F18CF	RAS-F24CF
	Outdoor		RAC-F10CG1	RAC-F13CF	RAC-F18CF	RAC-F24CF
Phase, Voltage, Frequency		φ,V,Hz	1φ ,50Hz,220-230V			
Cooling Capacity		kW	2.65	3.50-3.52	5.10-5.20	6.51
		BTU/h	9,040	11,950-12,020	17,420-17,760	22,215-22,215
EER		BTU/h·W	11.30	9.72-9.62	9.73-9.92	9.79-9.26
Total Input		W	800-830	1,230-1,250	1,790-1,790	2,270-2,400
Total Amperes		A	3.71-3.68	5.70-5.54	8.30-8.10	10.90-10.60
Airflow (HH/H/M/L/Silent)		m³/min	-/7.0/6.0/5.0/4.5	-/12.0/10.5/8.5/6.0	-/14.7/12.5/10.5/-	-/14.5/12.0/11.0/9.2
Indoor Sound Level (HH/H/M/L/Silent)		dB	-/39/35/31/27	-/47/43/37/29	-/47/42/39/36	-/49/42/39/36
Dehumidifying Capacity		L/h	1.4	2.8	2.8	3.5
Maximum Length/Height of Piping		m	15/10	15/10	15/10	15/10
Diameter for Pipe - Gas/ Liquid		mm	9.52/6.35	12.70/6.35	12.70/6.35	15.88/6.35
Power Supply			Indoor	Indoor	Indoor	Indoor
Net Dimensions	Indoor (W×H×D)	mm	785x248x192	790x300x230	900x300x230	1,030x295x207
	Outdoor (W×H×D)	mm	700x468x258	750x570x280	750x570x280	850x650x298
Net Weight	Indoor/Outdoor	kg	6.5/25	9.5/31.5	10.5/34	12/48
Refrigerant			R410A			

Outdoor

Anti Corrosion Green Fin

RAC-F10CG1
Clear Fin Anti Corrosion

RAC-F13CF/ F18CF

RAC-F24CF

1 On Button

2 Dry Mode

3 Circulation Mode

4 Off Button

5 Sleep Mode

6 Fan Speed Selector

7 Set Temperature Selector

8 Off Timer Button

9 Up/Down Air Flow Direction Selector

10 On Timer Button

Window Type

RA-10MF

RA-10MDF

RA-13MF

RA-13MDF

Specification

Model		Window	RA-10MF	RA-10MDF	RA-13MF	RA-13MDF
Power Source		Phase,Hertz,Voltage	1φ ,50Hz,220V			
Cooling Capacity		kW	2.65	2.65	3.61	3.61
		BTU/h	9,040	9,040	12,310	12,310
EER		Btu/h.W	10.27	10.27	10.26	10.26
Total Input		W	880	880	1,200	1,200
Total Amperes		A	4.20	4.20	5.70	5.70
Air Flow (H/M/L)		m³/min	7.5/-/5.3	7.5/6.1/5.3	9.2/-/6.1	9.2/7.6/6.1
Sound Level (H/M/L)	Indoor	dBA	48/-/41	48/44/41	63/-/44	53/49/44
Dehumidifying Capacity		l/h	1.6	1.6	2.1	2.1
Net Weight	Indoor	Kg	34.00	34.00	45.00	45.00
Net Dimensions(W x H x D)	Indoor	mm	470x345x640	470x345x640	560x375x709	560x375x709

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.

Left-Right 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.

Vector DC Inverter / Non-Inverter

|		Vector DC Inverter			Non-Inverter
		VX Premium Inverter	**SX Deluxe Plus Inverter**	**SD DX Deluxe Inverter**	**F Standard**
Model	**Horse Power**				
	1.0HP	RAS-VX10CG [NEW]	RAS-SX10CD	RAS-SD10CD	RAS-F10CG1 [NEW]
	1.5HP	RAS-VX13CG [NEW]	RAS-SX13CD	RAS-SD13CD	RAS-F13CF
	2.0HP			RAS-DX18CF	RAS-F18CF
	2.5HP			RAS-DX24CF	RAS-F24CF
	3.0HP				
Key Feature	**Sensing Technology**	SCENE CAMERA CEILING — Image Camera / Themo Camera			
		Air Sleep Sensor			
	Good Sleep	Air Sleep Ceiling	Air Sleep		Sleep Mode
		Automatic Temperature Control, Super Silent Operation			
		Ceiling Flow			
		Human Targeted Flow			
	Comfort	Welcome Breeze			
		Welcome Target Flow			
		Heat Source Cooling			
	Energy Saving	Eco Mode			
	Clean	STAINLESS CLEAN		STAINLESS Pre-Filter	
		Nano Titanium Wasabi Air Purifying Filter			
		UV Fresh			

Suitable capacity for your room

South East Asia has one of the highest heat load from the strong sunlight.
Sunlight heat severely affects the top floor ceilings (like bedroom) and windows.
Please choose the best capacity for your room for higher energy efficiency and speedy cooling.
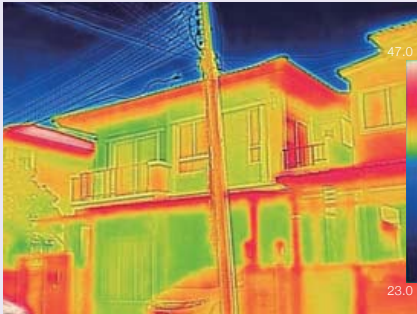
House in South East Asia
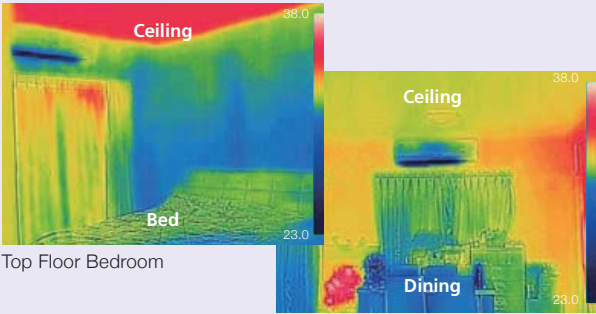
Top Floor Bedroom

Bottom Floor Living Room

Room Area	Top Floor Room		Bottom Floor Room	
	Recommended BTU/h*[1]	Approximate Horse Power*[2]	Recommended BTU/h*[1]	Approximate Horse Power*[2]
100-120 ft²	9,639-11,566	1.0HP	8,020-9,624	1.0HP
130-150 ft²	12,530-14,458	1.5HP	10,426-12,030	1.0HP
160-180ft²	15,422-17,350	2.0HP	12,832-16,040	1.5-2.0HP
190-280 ft²	18,314-26,988	2.5HP	15,238-22,456	2.0-2.5HP

*1 Calculated based on SHASE-S112-2000 standard. Condition: West side room with small window (1.8x0.9m), external heat insulation level low.
The necessary cooling capacity may differ depending on your room condition.
*2 Recommendation based on Hitachi Inverter Room Air Conditioner product line up.

Features Comparison

	Premium Inverter RAS-VX10CG RAS-VX13CG	Deluxe Plus Inverter RAS-SX10CD RAS-SX13CD	Deluxe Inverter RAS-SD10CD RAS-SD13CD	Deluxe Inverter RAS-DX18CF	Deluxe Inverter RAS-DX24CF	Standard RAS-F10CG1	Standard RAS-F13CF	Standard RAS-F18CF	Standard RAS-F24CF	Window Standard RA-10MF RA-13MF	Window Standard RA-10MDF RA-13MDF
Energy Saving											
Scene Camera Ceiling (NEW)	●										
Air Sleep Ceiling (NEW)	●										
Air Sleep Mode (NEW)	●	●	●	●	●						
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/ Normal* Pre Filter						●*	●*	●*	●*	●	●
Nano Titanium WASABI Air Purifying Filter	●	●	●	●	●					●	●
Washable Detachable Front Panel	●	●	●	●	●			●	●	●	●
Washable Front Cover				●							
Comfort											
Welcome Breeze (NEW)	●										
Refresh Mode (NEW)	●										
One-Touch Powerful Mode	●	●	●	●	●						
One-Touch Silent Mode (19dB)	●	●	●								
One-Touch Silent Mode				●	●						
Fuzzy Logic Control	●	●	●	●	●	●	●	●	●		
Sleep Mode						●	●	●	●		
Sensor Dry Operation	●	●	●	●	●	●	●	●	●		
Up-Down Auto Swing	●	●	●	●	●	●	●	●	●		
Left-Right Auto Swing	●									●	●
Fan Speed	4 Grades	4 Grades	4 Grades	4 Grades	4 Grades	3 Grades	3 Grades	3 Grades	3 Grades	2 Grades	3 Grades
Seamless Fan Speed Control	●	●	●	●	●						
Air Exhaust System										●	●
Easy-to-Use Remote Control	●	●	●	●	●	●	●	●	●		●
12h Timer	●	●	●	●	●	●	●	●	●		●
24h Timer											
Reliability											
Vector DC Inverter	●	●	●	●	●						
DC Power System	●	●	●	●	●	●	●	●	●		
Auto Restart	●	●	●	●	●	●	●	●	●		
Fireproof Electrical Enclosure	●	●	●	●	●	●	●	●	●		
Green / Clear* 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										●	●

(Header groupings: VECTOR DC INVERTER covers Premium Inverter, Deluxe Plus Inverter, and Deluxe Inverter columns; NON-INVERTER covers the Standard (RAS-F) columns; WINDOW covers the Standard (RA) columns.)

Features Introduction

Scene Camera Ceiling
Consists of single Thermo Camera, Image Camera and human sensor that monitors heat distribution, human activity level and location to auto-adjust cooling operation.

Air Sleep Mode
Monitors your sleep conditions and auto-adjust 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 your awakening.

Air Sleep Ceiling
On top of controlling silent operation and optimum room temperature by Air Sleep mode, it will auto select Ceiling Flow or Human Targeted Flow depending on the scenes.

Welcome Breeze
Target cools human with extra cold and powerful air flow for the first 15 min. Auto shift to Heat Source Cooling after 15 min.

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

Smart Swing
By detecting human presence, individual location, activity level, sunlight and temperature, Scene Camera Ceiling 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 TiO_2 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.

Refresh Mode
Controls temperature and compressor operation to maximize a chilly feeling and reduce sensual humidity for a refreshing feeling.

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

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.

Up-Down Auto Swing
Wind direction is automatically directed up and down to deliver cool air evenly.

Left-Right 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.

Vector DC Inverter
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.

Anti-Corrosion Green Fin
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.