

HITACHI

# Wall Mounted Air Conditioner

Your Home



Cooling & Heating

# BENEFITS AND FEATURES

## IDEAL HOME ENVIRONMENT

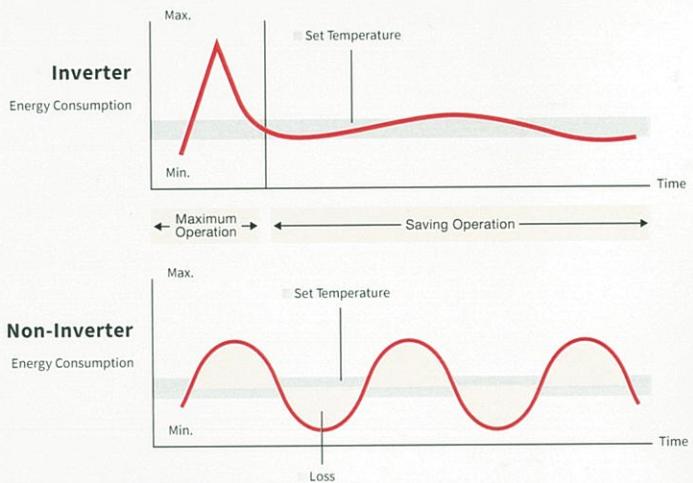


### Energy Efficiency



#### Vector DC Inverter

With Vector DC Inverter technology, an air conditioner cools with max. capacity at start-up, then automatically slows down and operates at min. suitable capacity to maintain room temperature at a comfortable level. Vector DC Inverter realizes high energy efficiency compared to Non-Inverter.

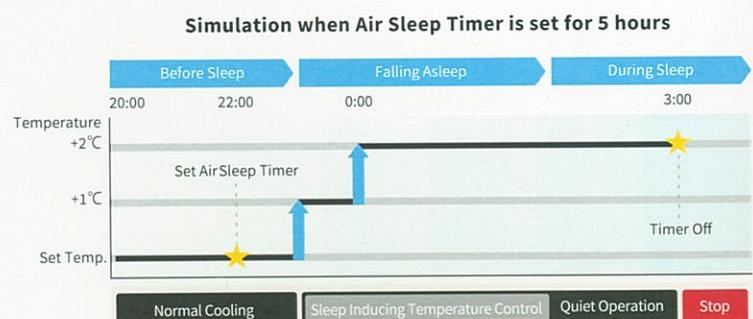


### Comfort



#### Air Sleep Timer

Once the "Air Sleep Timer" is set, it will shift to silent operation as well as gradually rise set temperature by +2°C in 2 hours, manually by timer control. The cooling operation will automatically stop, after designated hours has been past.



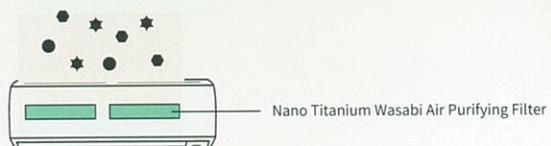
### Clean Air



#### Air Purification

Nano Titanium Wasabi Air Purifying 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 Wasabi Air Purifying Filter is available as optional parts.



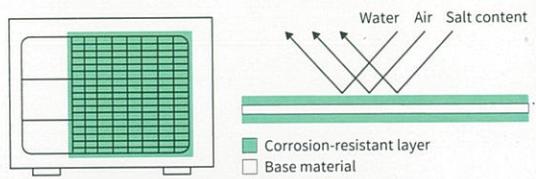
### Durability



#### 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 in coastal areas.

\*RAS-F10CJV, F13CJV apply Anti-Corrosion Clear Fin, with the same anti-corrosion effect.



# Features Introduction

## Air Sleep

Detects your sleep conditions, auto-adjusts to 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

In Air Sleep Mode, Air Sleep Ceiling auto-selects ideal air flow speed and direction depending on location and activity of people in the room.

## Air Sleep Timer

When Air Sleep Timer is set, it will shift to silent operation and Air Sleep temperature control by timer. Operation will stop after selected number of hours.

## Auto On

Air conditioner automatically turns on after detecting people in the room.

## Auto Off

Air conditioner automatically turns off after detecting 1 hour of human absence from the room.

## 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.

\*Available as optional parts

## 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.

## Sensor Dry Operation

Decreases room humidity by softly cooling the room.

## Seamless Fan Speed Control

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

## Up-Down Auto Swing

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

## Eco Mode

Uses Scene Camera Ceiling to detect human presence, location, activity level, sunlight and temperature. Auto-adjusts cooling operation for maximum comfort and minimum energy consumption.

## Save Mode

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

## Scene Camera Ceiling

Consists of one Thermo Camera, one Image Camera and a human sensor that detects heat sources, human activity level and location to auto-adjust cooling operation.

## Welcome Breeze

Directs extra-cold and powerful air flow to people in the room for the first 15 minutes. Automatically shifts to heat source cooling after 15 minutes.

## Vector DC Inverter System

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

## 12h Timer

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

## DC Power System

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

## 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.

## Auto Restart

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

## Anti-Rust Outdoor Casing

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

## Anti-Corrosion Green Fin

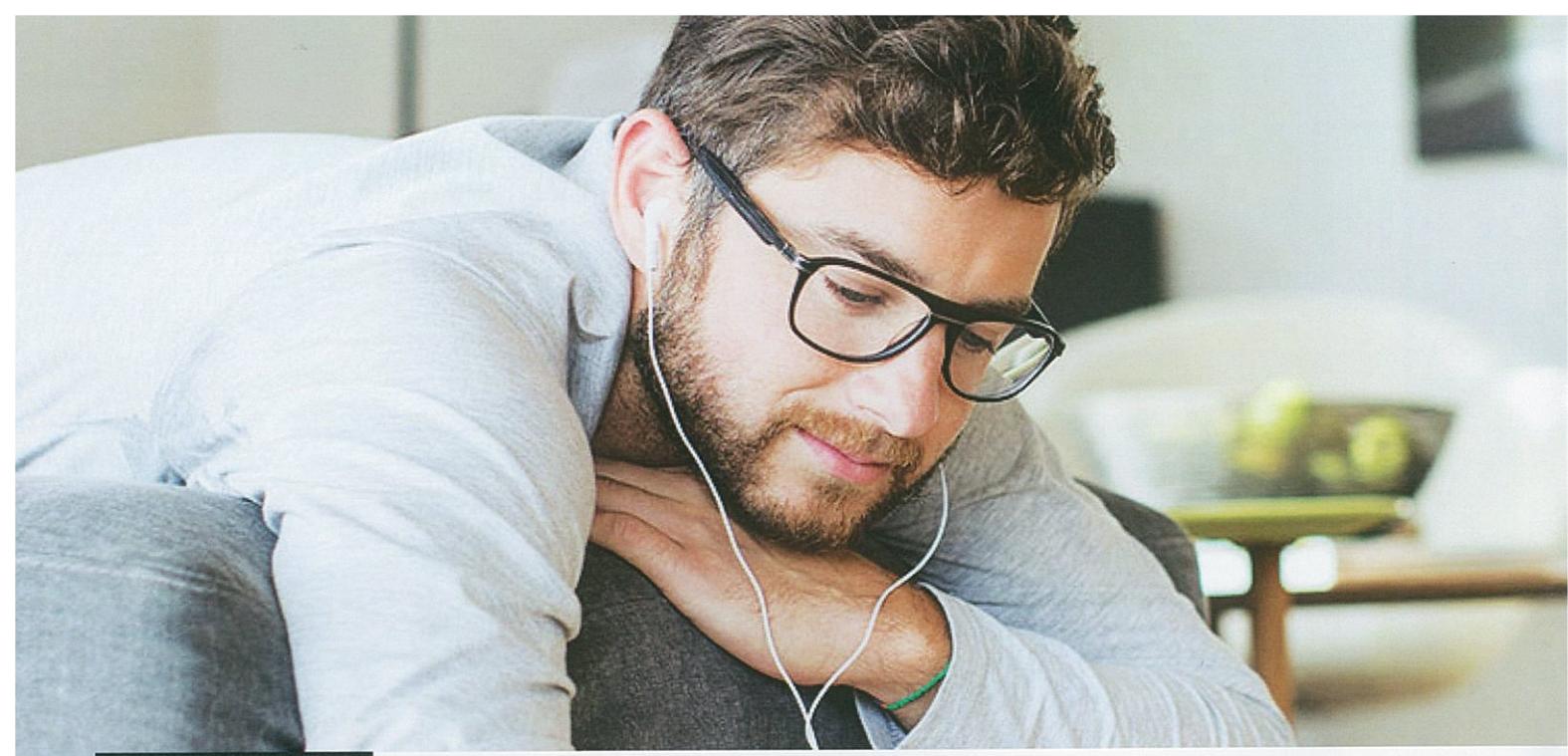
Anti-corrosion green coating on the outdoor unit heat exchanger.

## 3-Minute Delay Circuit (Fuse Blow Prevention)

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

## Changeable Drain Hose

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



## Benefits and Features

- Sleep Mode Timer
- DC Power System
- Auto Restart

- Fuzzy Logic Control
- Fireproof Electrical Enclosure
- Sensor Dry Operation

- Up-Down Auto Swing
- Anti-Corrosion Green Fin (\*2)
- Nano Titanium Wasabi Air Purifying Filter (\*1)

(\*1) Optional (\*2) RAC-F10CG1 apply Anti-Corrosion Clear Fin.

## Non-Inverter

**R410A**  
REFRIGERANT



RAS-F10CG1 / RAC-F10CG1



RAS-F18CF / RAC-F18CF



RAS-F13CF / RAC-F13CF



RAS-F24CF / RAC-F24CF



Indoor unit / Outdoor unit	RAS-F10CG1 / RAC-F10CG1	RAS-F13CF / RAC-F13CF	RAS-F18CF / RAC-F18CF	RAS-F24CF / RAC-F24CF
Phase, Frequency, Voltage	Ø, Hz, V	1Ø,50Hz,220-230V	1Ø,50Hz,220-230V	1Ø,50Hz,220-230V
Cooling Capacity	kW	2.65-2.65	3.50-3.52	5.10-5.20
	BTU / h	9,040-9,040	11,950-12,020	17,420-17,760
EER	BTU / h * W	11.30-10.89	9.72-9.62	9.73-9.92
Total Input (Rated (min/max))	W	800-830	1,230-1,250	1,790-1,790
Total Amperes	A	3.71-3.68	5.70-5.54	8.30-8.10
Air flow (HH/H/M/L/SI)	m <sup>3</sup> / min	-/7.0/6.0/5.0/4.5	-/12.0/10.5/8.5/6.0	-/14.7/12.5/10.5/-
Indoor Sound Level (HH/H/M/L/SI)	dB	-/39/35/31/27	-/47/43/37/29	-/47/42/39/36
Outdoor Sound Level	dB	48	51	52
Dehumidifying Capacity	l / h	1.4	2.8	2.8
Maximum Length / Height of Piping	m	15/10	15/10	15/10
Diameter for Liquid / Gas	mm	6.35/9.52	6.35/12.7	6.35/12.7
Power Supply		Indoor	Indoor	Indoor
Net Dimensions	Indoor(W×H×D)	mm	785x248x192	790x300x230
	Outdoor(W×H×D)	mm	700x468x258	750x570x280
Net Weight	Indoor / Outdoor	kg	6.5/25	9.5/31.5
Refrigerant			R410a	R410a

## Features Comparison

Category	Features	High wall split						
		Inverter Series			Non-Inverter Series			
								
		RAS-VX10CG RAS-VX13CG	RAS-SD10CD RAS-SD13CD	RAS-DX18CF RAS-DX24CF	RAS-F10CG1	RAS-F13CF	RAS-F18CF	RAS-F24CF
Energy Saving	Air Sleep Ceiling	•	•	•	-	-	-	-
	Air Sleep	•	-	-	-	-	-	-
	Sleep Mode Timer	-	-	-	•	•	•	•
	Auto On/Auto Off	•	-	-	-	-	-	-
	Eco Mode	•	-	-	-	-	-	-
	Save Mode	•	-	-	-	-	-	-
	Scene Camera Ceiling	•	-	-	-	-	-	-
	Welcome Breeze	•	-	-	-	-	-	-
Clean	Normal Pre-Filter	-	-	-	•	•	•	•
	Nano Titanium Wasabi Air Purifying Filter	•	•	•	-	Optional	Optional	Optional
	Washable Front Panel / Front Cover*	•	•	•	•	•	•	•
	Nano Titanium Stainless Pre-Filter	•	•	•	-	-	-	-
	Stainless Clean System	•	-	-	-*	-	-	-
	UV Fresh	•	•	•	-	-	-	-
Comfort	Refresh Mode	•	-	-	-	-	-	-
	Powerful Mode	•	•	•	-	-	-	-
	Silent Mode	•	•	•	-	-	-	-
	Fuzzy Logic Control	•	•	•	•	•	•	•
	Sensor Dry Operation	•	•	•	•	•	•	•
	Up-Down Auto Swing	•	•	•	•	•	•	•
	Fan Speed	4 Grades	4 Grades	4 Grades	3 Grades	3 Grades	3 Grades	3 Grades
	Seamless Fan Speed Control	•	•	•	-	-	-	-
	Easy-to-use Remote Controller	•	•	•	•	•	•	•
	12h Timer	On & Off Timer	On & Off Timer	On & Off Timer	On & Off Timer	On & Off Timer	On & Off Timer	On & Off Timer
Reliability	DC Power System	•	•	•	•	•	•	•
	Auto Restart	•	•	•	•	•	•	•
	Fireproof Electrical Enclosure	•	•	•	•	•	•	•
	Green Fin / Clear Fin* Anti-Corrosion	•	•	•	-*	•	•	•
	Anti-Rust Outdoor Casing	•	•	•	•	•	•	•
	3-Minute Delay Circuit (Fuse Blow Prevention)	•	•	•	•	•	•	•
	Changeable Drain Hose	•	•	•	•	•	•	•
	Vector DC Inverter System	•	•	•	-	-	-	-

•	Available
-	Not available



**HITACHI**  
Air conditioning solutions

Johnson  
Controls

## Johnson Controls-Hitachi Air Conditioning

### Johnson Controls-Hitachi Air Conditioning Singapore Pte. Ltd.

6 Changi Business Park Avenue 1,  
06-21/22 UE Bizhub East (North Tower),  
Singapore 486017  
Tel: +65 6854 5474  
[www.hitachiaircon.sg](http://www.hitachiaircon.sg)

### Johnson Controls-Hitachi Air Conditioning

New Pier Takeshiba South Tower,  
1-16-1, Kaigan Minato-ku,  
Tokyo 105-0022, JAPAN  
[www.jci-hitachi.com](http://www.jci-hitachi.com)

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