



Cooling Capacity
2.5kW - 8.0kW

Heating Capacity
3.2kW - 9.0kW

Hitachi

Inverter Wall Split Air Conditioning

Giving you complete control

A modern kitchen and dining area with a white countertop, wooden cabinetry, and a stainless steel range hood. The kitchen is open-plan, with a dining table and chairs visible in the foreground. The ceiling features recessed lighting and a large, white, rectangular air conditioning unit. The overall design is clean and contemporary.

Hitachi and Temperzone:

Combining to offer Australia and
New Zealand the most comprehensive
range of air conditioning technology.

The fast way to enjoy cool or warm, clean air

Imagine being able to cool or heat a room quickly, economically and effectively. Then imagine being able to ensure that the air is virtually 100% free of allergens and bacteria.

Hitachi's innovative wall split range makes it all possible.

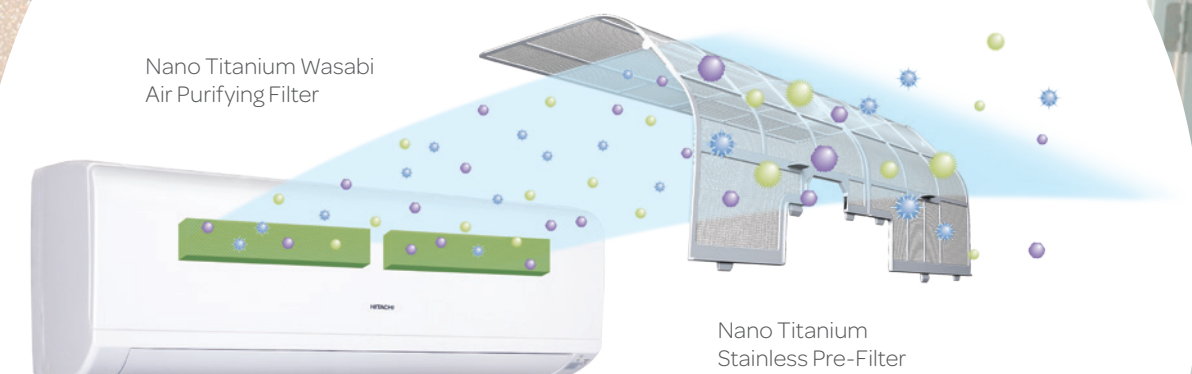
Boasting the ability to heat or chill a space **26% faster** than any non-inverter alternative, this advanced system also enables precise temperature control and **energy efficiency levels 50% greater** than any conventional unit.

For those demanding only the purest air quality, Hitachi's wall splits feature a nano titanium stainless pre filter and a unique nano titanium wasabi air purifying filter which **reduces bacteria and allergen levels by around 99% and 95% respectively.**

Ranging in capacity from 2.5kW to 8kW, Hitachi's wall split range is the ideal choice for residential homes or commercial spaces.

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-mould, anti-allergen and deodorising effect, **reducing bacteria and allergen levels by around 99% and 95% respectively.**

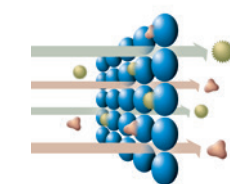


Powerful Wasabi Sanitizing

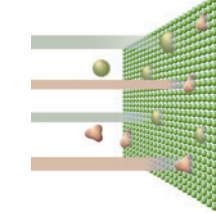
It may seem surprising but the wasabi often seen with sushi has a powerful sanitizing effect! Hitachi's unique Nano Titanium Wasabi Air Purifying Filter is coated with wasabi-modified Nano Titanium particles to firmly catch and deactivate bacteria, allergens, mould and odours!

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

Conventional anti-bacterial agents



Nano Titanium agents



● Bacteria
● Odours

Why a Hitachi wall split is the quiet achiever

Hitachi wall split units can exert an almost instant effect in even the most challenging of summer or winter conditions.

While their high-speed cooling and heating capacity generates cool or warm air faster, a **multi-directional auto-swing** capacity makes it possible to simultaneously direct that air to the left and the right. With all corners covered, it's easy to see why they're so much more effective than systems that can only address one side of a room at a time.

But cooling and heating speed and efficiency is only part of the story.

Thanks to the incorporation of DC fan technology within Hitachi wall split indoor units, modifications to airflow intensity are able to occur without any noticeable change in sound levels. The outdoor units are also **extremely quiet**, making them ideal for use in highly built-up areas or where neighbours are in close proximity.

Other benefits:

- A full array of super-efficient DC technology, including motor, compressor, and outer and inner fans.
- Ease of installation.
- Convenient and complete control via a user-friendly wireless controller.
- An ECO Mode setting that enables the user to achieve significant energy savings.
- Optional Remote alarm capacity, ensuring any problems can be monitored and diagnosed by an external controller.
- An optional card key 'on' and 'off' function that enables automatic deactivation once a room becomes unoccupied.
- A metal fireproof enclosure that houses all internal electrical components.
- High durability, made possible by anti-corrosion and anti-dust coatings on the outer heat exchanger.
- Comprehensive 5 year parts and labour warranty on Hitachi Wall Splits for the home.

The Hitachi-Temperzone advantage

As global pioneers of inverter air conditioning technology, Hitachi's design innovations have been redefining climate control possibilities for over 30-years.

Thanks to an alliance with Australian and New Zealand air conditioning giant Temperzone, customers can select from a wide range of Hitachi products while also enjoying the peace-of-mind that only comes from local support and technical expertise.

Technological advancements



Inverter Wall Split

DC Inverter Technology

A DC compressor offers improved performance during periods of extended operation. It also features a split rotor with displaced electrical poles, enabling the suppression of electromagnetic noise. Low-speed performance characteristics have also been improved, leading to **significant reductions in annual running costs**.

See figure 1

Precise Inverter Control

The operating speed of the compressor's DC motor can be adjusted continuously in 1Hz increments and in free relation to the variability of system capacity.

See figure 2

Auto Restart

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

Seamless fan speed control

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

Fig 1

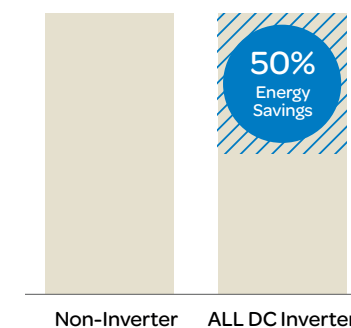
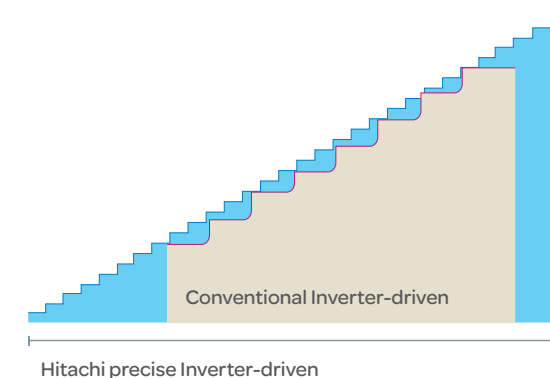


Fig 2



Technological advancements

Energy savings

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

Non-inverter can only operate a simple on-off control. It tries to maintain temperature by repeatedly switching power on and off, which consumes much more electricity with bigger temperature fluctuation.

See figures 3-4

Fig 3

Inverter: Energy Consumption

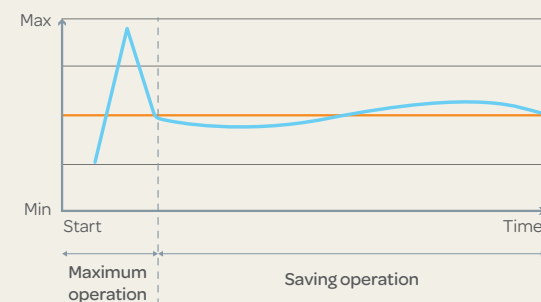


Fig 4

Non-Inverter: Energy Consumption



Fig 5

Parallel swing

The air conditioner louvers swing together from left to right, cooling the area more efficiently.



Multi-Directional Auto Swing

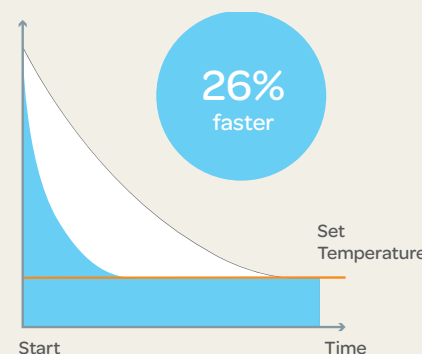
The louvers not only move up and down automatically, but also left and right. This action disperses cool air over a much wider range to cool the room efficiently and evenly.

See figure 5

Fig 6

High Cooling Speed

Inverter
Non-Inverter



High cooling speed

Get your room cooled instantly on a sweltering hot day! With its high powered start up, Inverter air conditioners realise up to **26% faster cooling** compared to non-inverter type.

See figure 6

Quiet, Efficient, Safe

Hitachi's inverter models 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 low Voltage (35V), the indoor unit offers much safer maintenance.

See figures 7-8

Fig 7

Comparison of motor noises (compared by Hitachi)

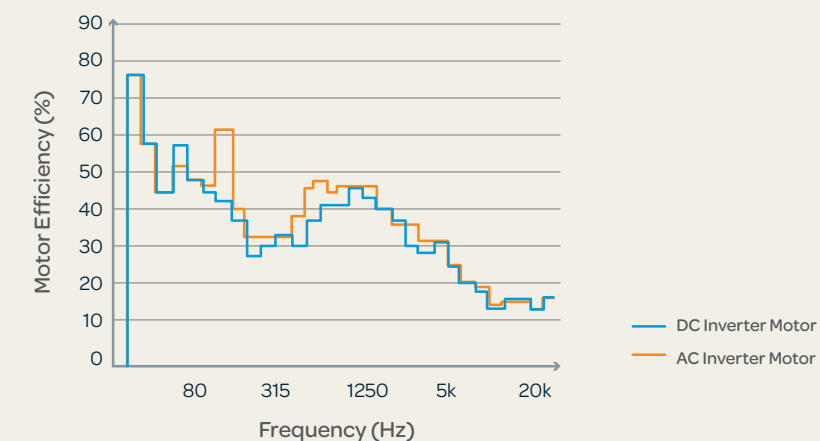
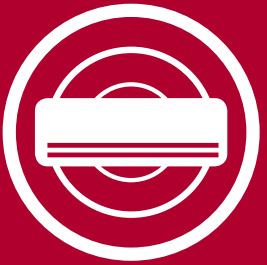
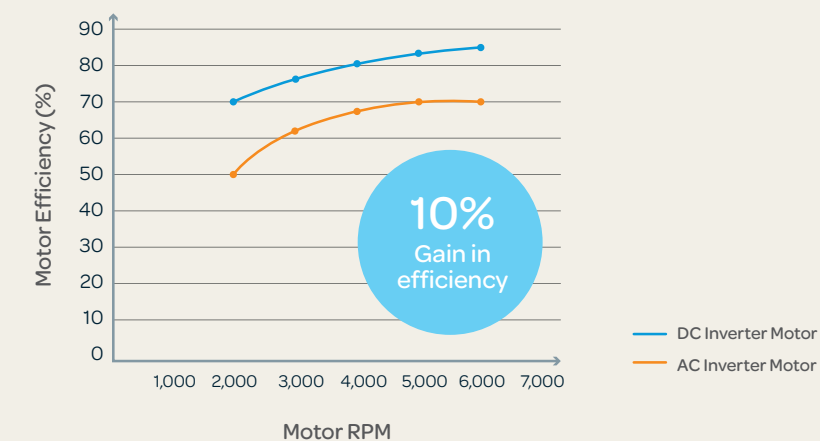


Fig 8

Comparison of motor efficiency (compared by Hitachi)



Inverter
Wall Split

Convenient wireless control

Complete Control

Hitachi wall-mounted units come with a choice of two wireless remote controllers, ensuring complete control from the comfort of your armchair

As well as offering Standard Mode, louvre and fan speed control, Hitachi systems also incorporate an additional array of innovative features designed to make your life easier.



Std. Wireless Controller



Optional Wireless Controller

Eco Mode

Programmed to run your system at a slightly reduced rate, Eco Mode helps keep your power consumption to a minimum.

Powerful Mode

Running your system at maximum output for 20-minutes, Powerful Mode projects airflow further and faster to cool or heat a room rapidly.

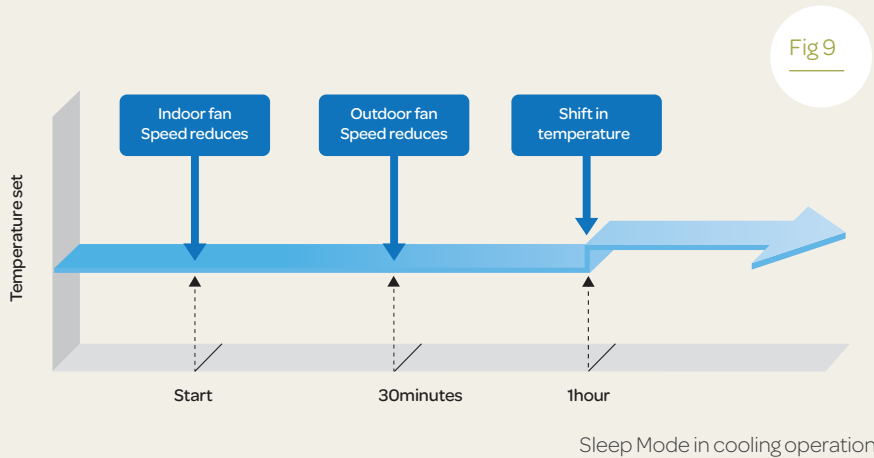
Sleep Mode

A function that adjusts fan speed and temperature to provide comfort conditioning while you're sleeping. Sleep Mode also prevents drafts that might disrupt a good night's sleep.

Tracking Power Consumption*

Unwelcome power bill surprises are now a thing of the past thanks to the ability to monitor your air conditioner's power usage directly from your wireless controller.

See figure 9



*Function only available through optional wireless remote



Inverter Wall Split

Leave Home Function*

Allowing you to preset your air conditioner to start automatically if the internal temperature drops to 10°C while you're not at home, Leave Home Function is ideal for use in locations that experience very cold conditions. It can even be instrumental in preventing formation of dampness and mould.

Weekly Timer Function*

Completely eliminating the need to manually control your air conditioner, the Weekly Timer function enables you to preset your unit to automatically turn on and off or change temperature to suit your weekly schedule. The seven-day timer function allows you to set up to six on/off time and temperature settings for each day of the week. You can even preset two seven-day schedules (mode A and B) and choose the desired schedule as required.

See figure 10

Fig 10

		Mon	Tue	Wed	Thur	Fri	Sat	Sun
6:00	1	ON / 23°C	ON / 23°C	ON / 23°C	ON / 23°C	ON / 23°C	1 ON / 23°C	
8:00	2	OFF	OFF	OFF	OFF	OFF		
10:00							2 OFF	
12:00	3	ON / 20°C	ON / 20°C	ON / 20°C	ON / 20°C	ON / 20°C		
14:00	4	OFF	OFF	OFF	OFF	OFF		
16:00								
18:00	5	ON / 20°C	ON / 20°C	ON / 20°C	ON / 20°C	ON / 20°C	3 ON / 22°C	
20:00								
22:00	6	OFF	OFF	OFF	OFF	OFF	4 OFF	

Example of a programmed seven day schedule over summer

*Function only available through optional wireless remote

Advanced commercial control

Advanced Control Options

The perfect solution for any commercial application, Hitachi Inverter wall splits can incorporate an array of optional features for advanced control capability.

Demand Response Module (DRED)

Hitachi offer an optional DRM module for instances where local requirements specify DRED compatibility.

Wired Controllers

Available as an option, a full dot LCD wired controller is ideal for use in commercial or large-scale applications where a wireless controller may not be applicable. It incorporates all standard as well as advanced features including:

- ECO Mode
- Powerful Mode
- ECO Sleep Function
- Leave Home
- One Touch Clean
- Weekly Timer



RAS/RAC 25-35YHA
LCD wired controller



RAS/RAC 50-80YHA
LCD wired controller

Remote On/Off

Available as an option, remote On / Off switches the unit on or off via a remote device such as a hotel room card key.

Run Status & Alarm Signal

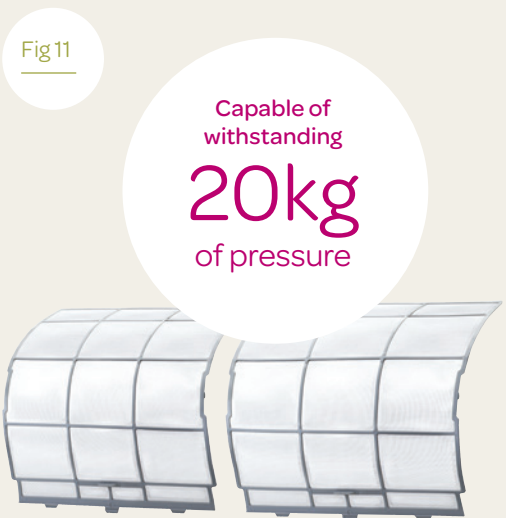
Available as an option, Run Status and Alarm Signal indicates when a unit is running, or if the unit has stopped due to an internal fault. This is beneficial for projects where multiple units have been installed.

Long life durable system

Easy cleaning durable pre-filter

Hitachi's durable Nano Titanium Stainless Steel pre-filters are easily cleaned with a simple wipe under running water. With durability tests confirming the pre-filter's ability to bear up to 20kg of pressure, long life is guaranteed.

See figure 11



Nano Titanium Stainless Pre-Filter

Anti-Corrosion, Anti Rust

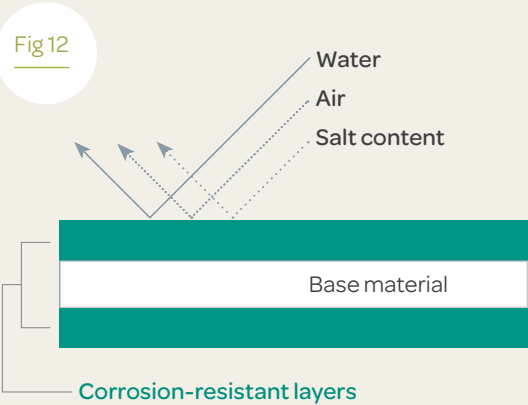
Green Fin Condenser

Utilising a special anti-corrosion "green" coating, the Green Fin Condenser lasts up to three-times longer than standard variants. This coating facilitates better performance, higher durability and bigger savings - even in the toughest of conditions.

See figure 12

Outdoor Anti-corrosion casing

Hitachi outdoor units are rustproof thanks to a full coating of anti-rust paint.



Comparison tables

Model						
Indoor	RAS-25YHA5	RAS-35YHA6	RAS-50YHA4	RAS-60YHA4	RAS-70YHA4	RAS-80YHA4
Outdoor	RAC-25YHA5	RAC-35YHA6	RAC-50YHA4	RAC-60YHA4	RAC-70YHA4	RAC-80YHA4
Capacity kW						
Nominal Cooling	2.5	3.5	5.0	6.0	7.0	8.0
Nominal Heating	3.2	4.0	6.0	7.0	8.0	9.0
Capacity (Range) kW						
Cooling	1.0 - 3.2	1.1 - 4.2	1.2 - 5.8	1.2 - 6.8	1.5 - 8.3	1.5 - 8.5
Heating	1.0 - 4.4	1.1 - 5.5	1.2 - 6.8	1.2 - 7.5	1.5 - 9.0	1.5 - 9.7
Air Flow l/sec						
Hi / Med / Lo / Sleep	153/112/83/55	158/147/92/55	227/173/117/97	250/183/133/121	292/242/167/142	350/242/225/203
Energy Efficiency						
EER / AEER Cooling	4.55 / 4.49	3.85 / 3.73	3.38 / 3.36	3.33 / 3.32	3.41 / 3.40	3.27 / 3.25
COP / ACOP Heating	4.71 / 4.65	4.30 / 4.11	3.86 / 3.83	3.83 / 3.81	3.70 / 3.69	3.60 / 3.59
Star Rating Cooling	4.00	2.50	2.00	2.00	2.00	2.00
Star Rating Heating	4.50	3.50	3.50	3.00	2.50	2.50
Noise Levels (dB(A))						
Indoor Unit						
Hi/Med/Lo/Sleep	39/32/28/22	41/35/28/22	47/39/28/24	49/41/32/29	47/42/33/30	49/45/40/36
Outdoor Unit						
Cooling / Heating	47/48	47/48	50/52	50/52	51/53	55/55
Dimensions (mm)						
Indoor (W x H x D)	780 x 280 x 218	780 x 280 x 218	900 x 300 x 230	900 x 300 x 230	1100 x 300 x 250	1100 x 300 x 250
Outdoor (W x H x D)	750 x 548 x 288	750 x 548 x 288	850 x 650 x 298	850 x 750 x 298	850 x 800 x 298	850 x 800 x 298
Weights (kg)						
Indoor / Outdoor	7.5 / 33	7.5 / 38	10 / 45	11 / 50	15 / 52	15 / 52
Operating Range						
Outdoor Op. Temp. (Cooling)	-10 to 46 °C	-10 to 46 °C	-10 to 46 °C	-10 to 46 °C	-10 to 46 °C	-10 to 46 °C
Outdoor Op. Temp. (Heating)	-15 to 21 °C	-15 to 21 °C	-15 to 21 °C	-15 to 21 °C	-15 to 21 °C	-15 to 21 °C
Refrigerant Type						
R410A						
Pipe Sizes (mm)						
Ø9.5 / Ø6.35	Ø9.5 / Ø6.35	Ø9.5 / Ø6.35	Ø12.7 / Ø6.35	Ø12.7 / Ø6.35	Ø15.88 / Ø6.35	Ø15.88 / Ø6.35
Refrig Pipe charge (m)	20	20	30	20	30	30
Min / Max Pipe Lgth / Lift (m)	2 / 20 / 10	2 / 20 / 10	3 / 30 / 10	3 / 30 / 20	3 / 30 / 20	3 / 30 / 20
Power						
Power Supply			240 Volt / 50 Hz / 1 Phase			
Run Amps / Phase (A/ph.)						
Cooling / Heating	2.86 / 3.33	4.21 / 4.31	6.2 / 6.56	7.6 / 7.7	8.6 / 9.9	10.3 / 10.5
Power Supply To						
Outdoor Unit						
Rec. Circuit Breaker (A)	15	15	16	20	20	20
Interconnecting Wire	1.5mm 3 Core + E	1.5mm 3 Core + E	1.5mm 3 Core + E	1.5mm 3 Core + E	1.5mm 3 Core + E	1.5mm 3 Core + E

** Rated capacity measured in accordance with AS/NZS 3823 conditions: Cooling: Indoor 27°C db / 19°C wb; Ambient 35°C db
Heating: Indoor 20°C db; Ambient 7°C db / 6°C db
Mains power source - AC 240V and 50Hz

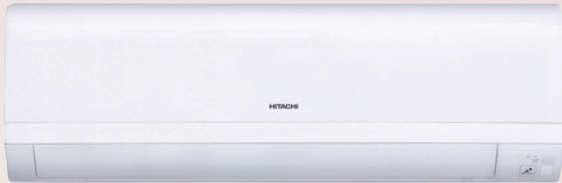


Inverter Wall Split

2.5 - 3.5kW
RAS/RAC-25YHA5
RAS/RAC-25YHA6



5.0 - 6.0kW
RAS/RAC-50YHA4
RAS/RAC-60YHA4



7.0 - 8.0kW
RAS/RAC-70YHA4
RAS/RAC-80YHA4



Standard
Wireless
Controller



Optional
Wireless
Controller



5 Year Warranty

A comprehensive 5 year parts and labour warranty covers the Hitachi Wall Split air conditioning for your home.*

*Refer to Hitachi Warranty for full conditions.

Comparison tables

Model		
Indoor	RAF-35NXA1	RAF-50NXA1
Outdoor	RAC-35NXA1	RAC-50NXA1
Capacity kW		
Nominal Cooling	3.5	5.0
Nominal Heating	4.2	6.0
Capacity (Range) kW		
Cooling	1.1 - 4.2	1.1 - 5.2
Heating	1.1 - 5.2	2.2 - 7.3
Air Flow l/sec		
Hi / Med / Lo / Sleep	167/138/111/92	180/147/120/103
Energy Efficiency		
EER / AEER Cooling	3.80 / 3.74	3.33 / 3.29
COP / ACOP Heating	3.95 / 3.89	3.87 / 3.83
Star Rating Cooling	2.50	2.00
Star Rating Heating	3.00	3.00
Noise Levels (dB(A))		
Indoor Unit		
Hi/Med/Lo/Sleep	42/35/29/25	46/37/30/25
Outdoor Unit		
Cooling / Heating	47/49	52/52
Dimensions (mm)		
Indoor (W x H x D)	760 X 600 X 235	760 X 600 X 235
Outdoor (W x H x D)	841 X 548 X 335	887 X 600 X 345
Weights (kg)		
Indoor / Outdoor	14 / 36	14 / 40
Operating Range		
Outdoor Operating Temp. (Cooling) °C	-10 to 43 °C	-10 to 43 °C
Outdoor Operating Temp. (Heating) °C	-15 to 21 °C	-15 to 21 °C
Refrigerant Type		
	R410A	R410A
Pipe Sizes (mm)		
Refrig Pipe charge (m)	20	20
Min / Max Pipe Lgth / Lift (m)	3 / 20 / 10	3 / 20 / 10
Power		
Power Supply	240 Volt / 50 Hz / 1 Phase	240 Volt / 50 Hz / 1 Phase
Run Amps / Phase (A/ph.)		
Cooling / Heating	4.8 / 4.9	6.2 / 7.0
Power Supply To		
Rec. Circuit Breaker (A)	16	16
Interconnecting Wire	1.5mm 2 Core + E	1.5mm 2 Core + E

** Rated capacity measured in accordance with AS/NZS 3823 conditions: Cooling: Indoor 27°C db / 19°C wb; Ambient 35°C db
Heating: Indoor 20°C db; Ambient 7°C db / 6°C db
Mains power source - AC 240V and 50Hz



Inverter Wall Split

3.5 - 5.0kW
RAF/RAC-35NXA1
RAF/RAC-50NXA1



Standard Wireless
Controller



5 Year Warranty

A comprehensive 5 year parts and labour warranty covers the Hitachi Wall Split air conditioning for your home.*

*Refer to Hitachi Warranty for full conditions.

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