



Cooling Capacity
2.5kW - 8.0kW

Heating Capacity
3.2kW - 9.0kW

Hitachi

Inverter Wall Split Air Conditioning

Giving you complete control



Hitachi and Temperzone:

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



6 Year Warranty

An industry leading 6 year parts and labour warranty covers the Hitachi wall split air conditioning for your home and office.

The fast way to enjoy warm or cool, clean air

Imagine being able to heat or cool 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 cool 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 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.**



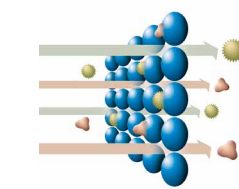
Powerful Wasabi Sanitizing



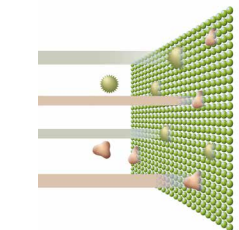
It may seem surprising but the wasabi often seen with sushi has a powerful sanitizing effect! Hitachi's unique Nano Titanium Wasabi air purifying filter is coated with wasabi-modified Nano Titanium particles to firmly catch and deactivate bacteria, allergens, mould and odours!

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

Conventional anti-bacterial agents

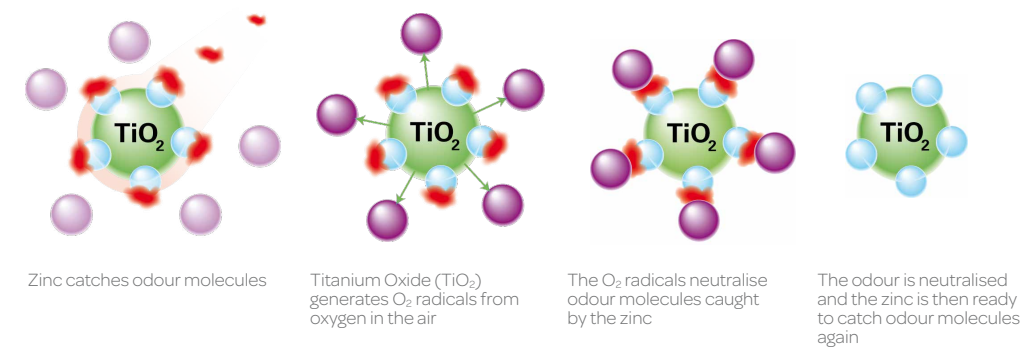


Nano Titanium agents



● Bacteria
● Odours

Principle of Nano Titanium's Action



Zinc ● O₂ ● O₂ Radical ● Odour ●

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 winter and summer conditions.

While their high-speed heating and cooling capacity generates warm or cool air faster, a **multi-directional auto-swing 3D airflow** capability makes it possible to simultaneously direct that air up and down, and left and right. With all corners evenly covered, it's easy to see why they're so effective and efficient at heating and cooling your room.

But heating and cooling 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:

- Industry leading 6 year parts and labour warranty on Hitachi wall splits for the home and office.
- All Hitachi air conditioners are highly efficient Energy Star qualifiers.
- A full array of super-efficient DC technology, including motor, compressor, and outer and inner fans.
- An ECO Mode setting that enables the user to achieve significant energy savings.
- Control your Hitachi air conditioner from anywhere with optional WiFi smartphone control.
- Convenient and complete control via a user-friendly wireless controller.
- High durability, made possible by anti-corrosion and anti-rust coatings on the outer heat exchanger.
- Ease of installation.
- 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.

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.

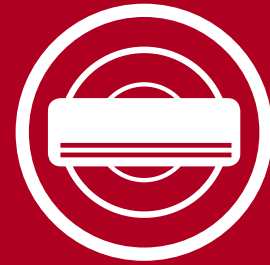
Thanks to an alliance with New Zealand and Australian air conditioning giant Temperzone, customers can select from a wide range of Hitachi products while also enjoying the peace-of-mind that only comes from local support and technical expertise.



6 Year Warranty

An industry leading 6 year parts and labour warranty covers the Hitachi wall split air conditioning for your home and office.

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.

Low Temperature Operation

Hitachi air conditioners can operate in outside temperatures **down to as low as -15°C.** This should ensure you keep cosy and warm all winter.

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.

Energy Star Qualifiers



All Hitachi air conditioners are very energy efficient and qualify for Energy Star. Energy Star qualification is given to only the most energy efficient products.

Fig1

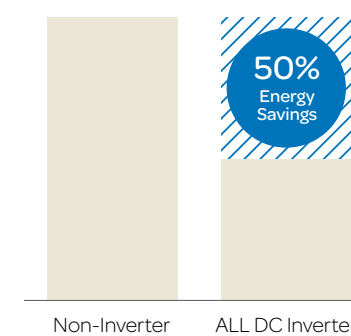
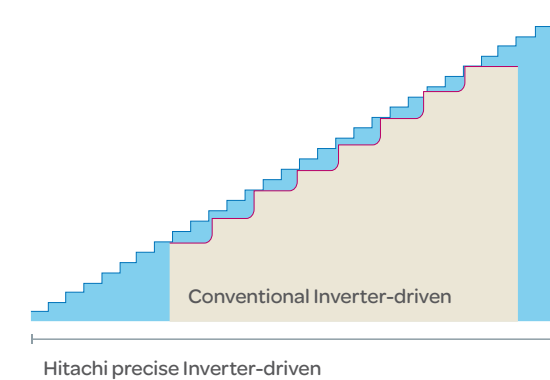


Fig2



Technological advancements

Energy savings

With intelligent inverter technology, an air conditioner will heat or cool with maximum capacity at start up, then automatically slows down to 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

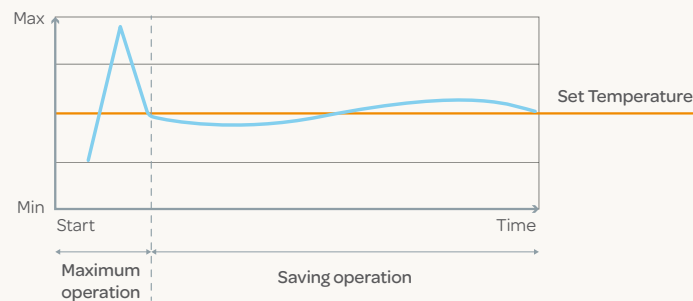


Fig 4

Non-Inverter: Energy Consumption

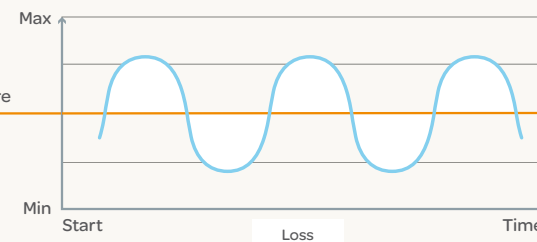
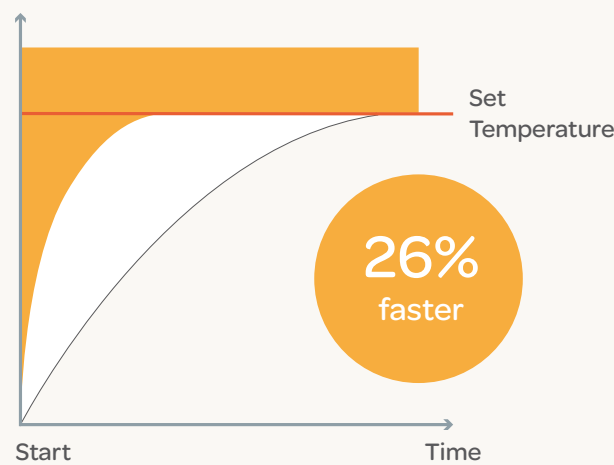


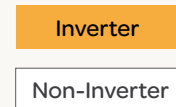
Fig 5



High Heating & Cooling Speed

Get your room heated instantly on a cold morning! With its high powered start up, Inverter air conditioners realise up to **26% faster heating** compared to non-inverter types.

See figure 5



Quiet, Efficient, Safe

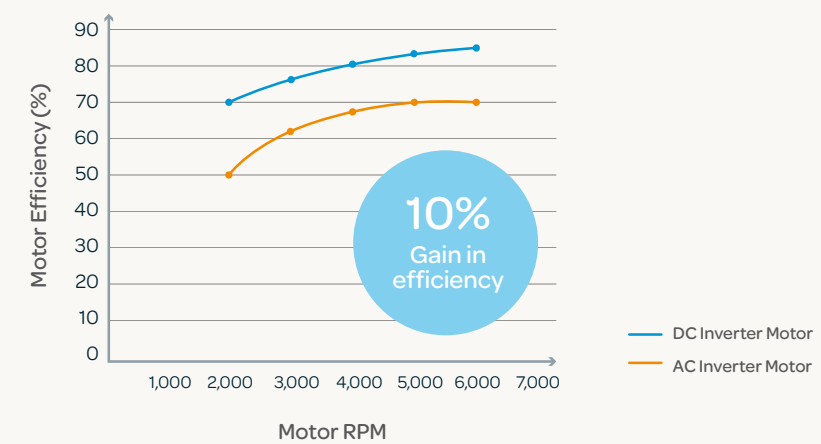
Hitachi's inverter models feature DC motors in the indoor and outdoor unit fans, as well as the compressor.

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 figure 6

Fig 6

Comparison of motor efficiency (compared by Hitachi)

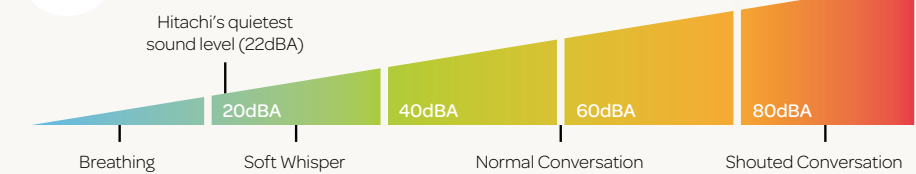


Whisper Quiet

Hitachi air conditioners are very quiet. The quietest in our range* has a sound level of only 22dBA in it's lowest mode (that's quieter than a soft whisper). Your air conditioner will operate between low and medium fan speed most of the time. This is where it's very important to be quiet and where Hitachi excels.

See figure 7

Fig 7



*RAS-25YHA5 and RAS-35YHA6



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 unit mode and fan speed control, Hitachi systems also incorporate an additional array of innovative features designed to make your life easier.



Std. Wireless Controller

Eco Mode

Programmed to run your system at a slightly reduced rate at the push of a button, Eco Mode will help keep your power consumption to minimum.

see figure 8

Dehumidify

On a sticky humid day set Dry Mode to dehumidify your room, this will improve comfort by removing moisture from the room.

Silent Mode*

When required, you can drop your indoor unit down to the quietest mode at the push of a button for silent operation.

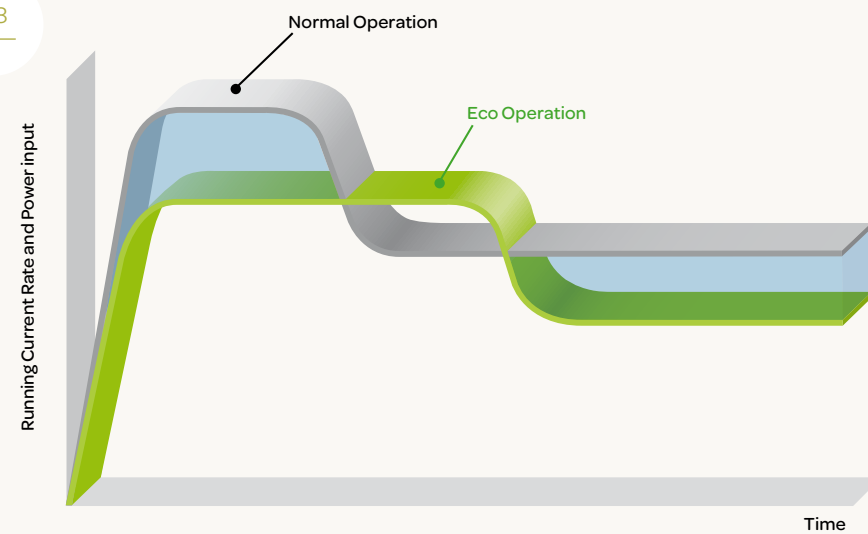
One Touch Clean*

One touch clean ensures your unit stays clean by drying the indoor heat exchanger after cooling operation to prevent mildew.

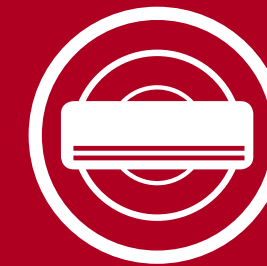


Optional Wireless Controller

Fig 8



*Function only available through optional wireless remote



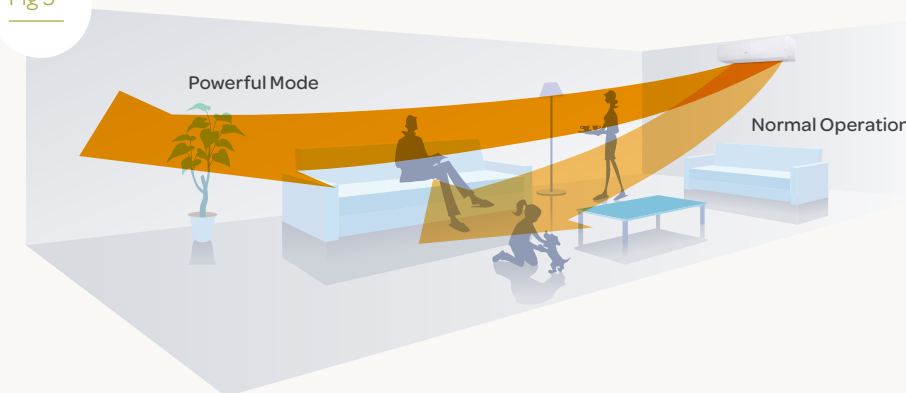
Inverter Wall Split

Powerful Mode

Don't sit around waiting for your room to reach a comfortable temperature, Powerful mode will run your system at maximum output for 20-minutes projecting airflow further and faster to cool or heat a room rapidly.

See figure 9

Fig 9

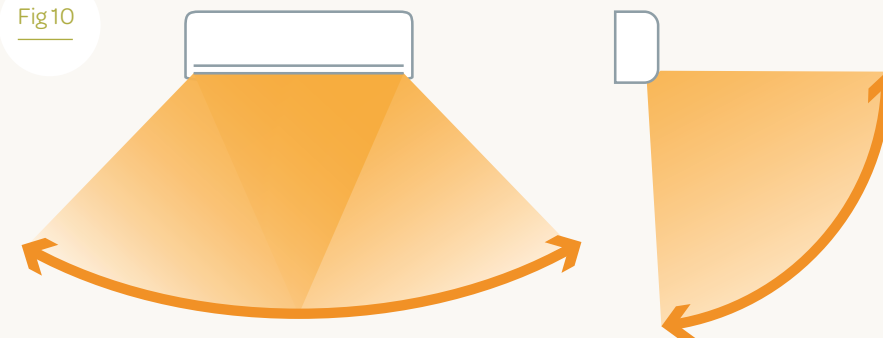


Multi-Direction Auto Swing - 3D Airflow

The louvres not only move up and down automatically, but also left and right. This action disperses air over a much wider range to warm or cool the room efficiently and evenly. With the push of a button louvres can be set in any airflow direction to precisely control your comfort.

See figure 10

Fig 10



*Function only available through optional wireless remote

Convenient wireless control

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 (e.g. for winter and summer) and choose the desired schedule as required.

See figure 11

Fig11

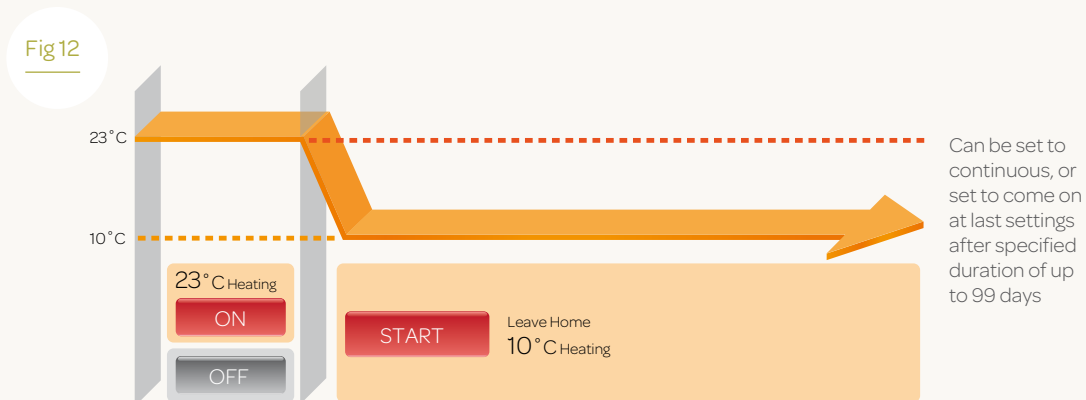
	Mon	Tue	Wed	Thur	Fri	Sat	Sun
6:00	① ON / 25°C	ON / 25°C	ON / 25°C	ON / 25°C	ON / 25°C	① ON / 27°C	
8:00	② OFF	OFF	OFF	OFF	OFF	② ON / 25°C	
10:00							
12:00	③ ON / 27°C	ON / 27°C	ON / 27°C	ON / 27°C	ON / 27°C	③ ON / 26°C	① OFF
14:00	④ OFF	OFF	OFF	OFF	OFF		
16:00						④ ON / 27°C	
18:00	⑤ ON / 27°C	ON / 27°C	ON / 27°C	ON / 27°C	ON / 27°C		
20:00						⑤ OFF	② OFF
22:00	⑥ OFF	OFF	OFF	OFF	OFF		

Example of a programmed seven day schedule over Winter.

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. This function can be instrumental in preventing the formation of dampness and mould.

See figure 12



*Function only available through optional wireless remote

Tracking Power Consumption*

The info button enables you to monitor your air conditioner's power usage directly from your wireless controller, ensuring there are no surprises when the electricity bill arrives.

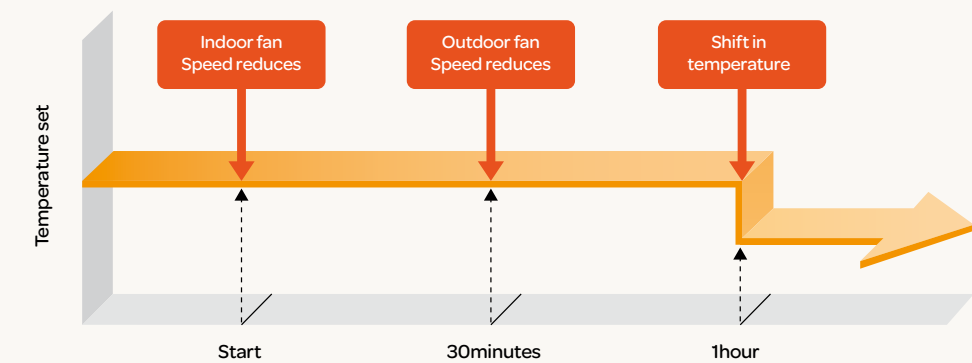
See figure 13

Sleep Mode

Sleep Mode adjusts fan speed and temperature, in heating or cooling, to provide comfort air conditioning while you're sleeping, and also prevents drafts that might disrupt a good night's sleep.

See figure 14

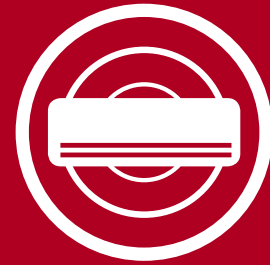
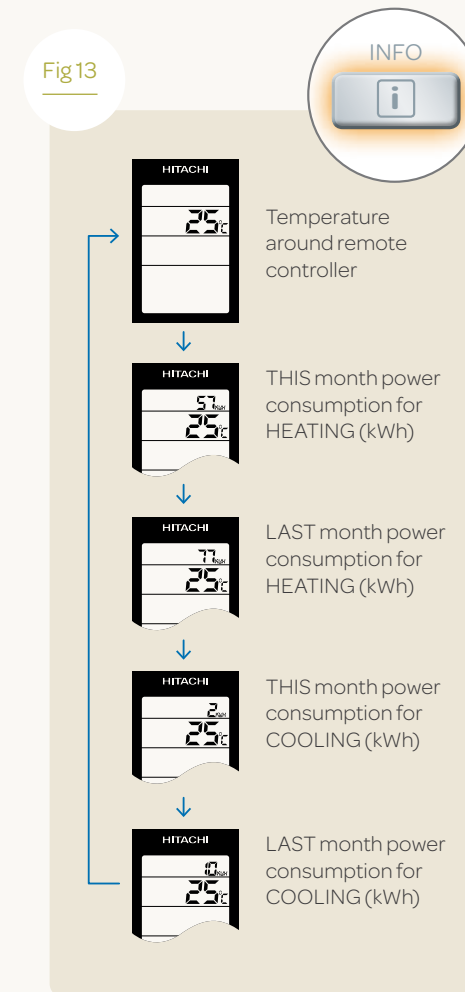
Fig14



Sleep Mode in heating operation

*Function only available through optional wireless remote

Fig13



Inverter Wall Split

Advanced commercial control

Advanced Control Options

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

Demand Response Module (DRED)

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

Wired Controllers

Wired controllers are available as an option. A Premium 7 day 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
- Sleep Mode
- Leave Home
- One Touch Clean
- Weekly Timer
- Tracking power consumption

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.



LCD wired controller (SPX-RCDB)

- Compatible with
- RAS/RAC 25YHA5
 - RAS/RAC 35YHA6
 - RAS/RAC 50-80YHA4



Premium 7 day LCD wired controller (SPX-WKT2)

- Compatible with
- RAS/RAC 25YHA5
 - RAS/RAC 35YHA6
 - RAS/RAC 50-80YHA4

WiFi smartphone control

Cloud based WiFi control option

Control your Hitachi air conditioner from anywhere with a smartphone or tablet device.

With the WiFi controller, you can remotely control your Hitachi air conditioner from your smartphone or tablet.

You can turn it on or off, change mode, change temperature, adjust the fan speed and set a 7 day weekly scheduler. It's right at your finger tips – from anywhere any time.

The application allows for an unlimited number of users, and unlimited number of WiFi control devices to be connected. All connected users have real-time control and readings.

The WiFi control system is simply plug and play. Download the app, plug the WiFi control device into a power point then pair it with your home WiFi. The app is compatible with all Android smartphones/tablets and iPhone/iPad devices.

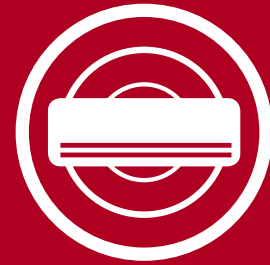
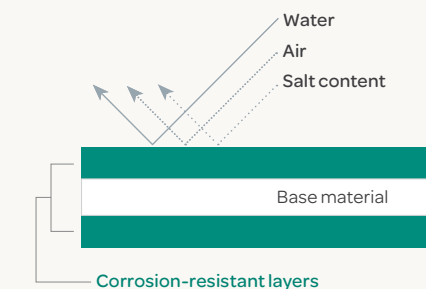


Long life durable system

Anti-Corrosion, Anti Rust

An anti-corrosion coating means the condenser lasts up to three-times longer than standard variants. Facilitating better performance and higher durability - even in the toughest of conditions.

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



Inverter Wall Split

Wall Mount Split Systems

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	270/200/145/120	280/230/170/140	350/240/225/200
Energy Efficiency						
EER / AEER Cooling	4.51 / 4.48	3.74 / 3.73	3.44 / 3.43	3.33 / 3.31	3.38 / 3.37	3.24 / 3.23
COP / ACOP Heating	4.68 / 4.65	4.11 / 4.10	4.04 / 4.02	3.85 / 3.83	4.18 / 4.16	3.89 / 3.87
Star Rating Cooling	4.00	2.50	2.00	2.00	2.00	1.50
Star Rating Heating	4.50	3.50	3.50	3.00	3.50	3.00
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	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 Supply						
	230 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

Energy Star®



* 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 230V and 50Hz

smartphone control optional
WiFi



Inverter Wall Split

2.5kW & 3.5kW
RAS/RAC-25YHA5 & RAS/RAC-35YHA6



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



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



Standard Wireless Controller (RAR-5FA1)



Optional 7 Day Wireless Controller (SPX-RCKA2)



6 Year Warranty

An industry leading 6 year parts and labour warranty covers the Hitachi wall split air conditioning for your home and office.*





Outdoor unit (RAC-50YH4)



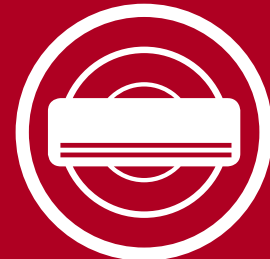
*Refer to Hitachi Warranty for full conditions.

Floor Mount Split Systems

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)	Ø9.5 / Ø6.35	Ø12.7 / Ø6.35
Min / Max Pipe Lgth / Lift (m)	20	20
	3 / 20 / 10	3 / 20 / 10
Power Supply		
	230 Volt / 50 Hz / 1 Phase	230 Volt / 50 Hz / 1 Phase
Run Amps / Phase (A/ph.)		
Cooling / Heating	4.8 / 4.9	6.2 / 7.0
Power Supply To		Outdoor Unit
Rec. Circuit Breaker (A)	16	16
Interconnecting Wire	1.5mm 2 Core + E	1.5mm 2 Core + E
Energy Star®		

** 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 230V and 50Hz

smartphone control optional
WiFi



**Inverter
Floor Split**

3.5kW & 5.0kW

RAF/RAC-35NXA1
RAF/RAC-50NXA1



Standard
Wireless
Controller*
(RAR-3U1)



Outdoor unit
(RAC-35NXA1)

Optional
7 Day Wired
Controller*
(SPX-WKT1)



6 Year Warranty

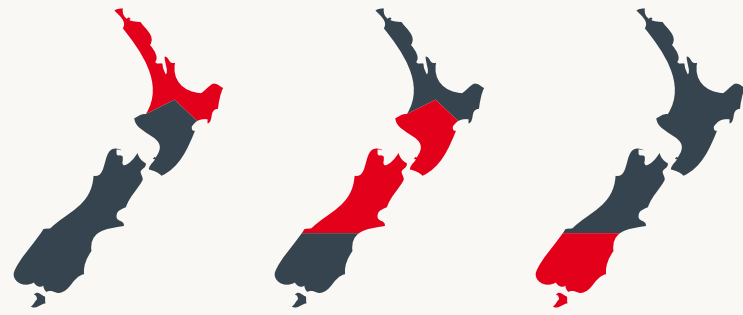
An industry leading 6 year parts and labour warranty covers the Hitachi floor split air conditioning for your home and office.**

* Controllers and some control features differ from those featured in this brochure.
** Refer to Hitachi Warranty for full conditions.

What size air conditioner do you need?

Hitachi Sizing Guide

No matter where you are in New Zealand Hitachi have the air conditioner to perfectly match your home and location.



Room Size (m ²)	Average NZ Room Type	North Island	Central Island	South Island
10	Single Bedroom	RAS-25	RAS-25	RAS-25
15	Double Bedroom	RAS-25	RAS-25	RAS-25
20	Large Double Bedroom	RAS-25	RAS-25	RAS/RAF-35
25	Small Lounge / Family	RAS/RAF-35	RAS/RAF-35	RAS/RAF-35
30	Average Lounge	RAS/RAF-35	RAS/RAF-35	RAS/RAF-50
35	Average Lounge	RAS/RAF-50	RAS/RAF-50	RAS-60
40	Large Lounge	RAS/RAF-50	RAS-60	RAS-60
45	Large Lounge	RAS-60	RAS-60	RAS-70
50	Open Plan Space	RAS-60	RAS-70	RAS-80
55	Open Plan Space	RAS-70	RAS-80	RAS-80
60	Large Open Plan Space	RAS-70	RAS-80	
65	Large Open Plan Space	RAS-80		
70	Large Open Plan Space	RAS-80		

Sizes are a guide only and based on a moderate to well insulated house with an average percentage of window area for the room type and a ceiling height of 2.7m max. The final selection must be verified by the installation contractor.

Trusted and leading after sales support

Hitachi is distributed by Temperzone, NZ's largest and most reputable air conditioning manufacturer.

Temperzone, a Kiwi company, fully supports your Hitachi air conditioner. Comprehensive NZ based after sales support and trusted technical expertise puts you in the best hands.



6 Year Warranty

An industry leading 6 year parts and labour warranty covers the Hitachi wall split air conditioning for your home and office.



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