HITACHI

Wall mounted Split Systems

Cooling & Heating



Creating truly comfortable living spaces.

We want to help you find the air conditioner that best suits your lifestyle. Our partnership with **temperzone** combines innovative global products with local knowledge and support to meet your needs faster, smarter and more responsibly than ever before.

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WIDE AMBIENT OPERATING RANGE -15°C IN WINTER 46°C IN SUMMER

REVERSE CYCLE

DIRECTIONAL AUTO SWING LOUVERS

AIR PURIFYING FILTER





Adding long term value to your day-to-day life.

Our approach is to make things simple, intuitive and straightforward. By continually testing and refining our products we offer useful improvements that really matter – whether it be during installation, on-going servicing or in the daily operation of your system.





EASY INSTALLATION

EASY ACCESS FOR SERVICING

AUTO RESTART AFTER POWER FAILURE



6 YEAR WARRANTY

'S' SERIES





remium Remote Controller (SPX-RCKA2)

Indoor unit: RAS-S25/S35YHA

0



HEATING Energy Rating*



* Star ratings based on: RAS-S25YHA / RAC-S25YHA



With greater efficiency and advanced features, including the eco motion sensor and SPX-RCKA2 premium controller. The 'S' Series offers a premium solution to all applications.



6 YEAR WARRANTY

'E' SERIES





Wireless Remote Controller

ndoor unit: RAS-E25/E35YHA

COOLING Energy Rating*

 $\star\star\star\star$

HEATING Energy Rating*



* Star ratings based on: RAS-E25YHA / RAC-E25YHA



Efficient and sleek design with flexible features that provide comfort all year round. The 'E' series offers a contemporary solution for all applications.



6 YEAR WARRANTY 05

'S' SERIES



(SPX-RCKA2)

KEY FEATURES

- Eco motion sensor with eco detect motion mode
- Nano Titanium Wasabi filter and Nano Titanium pre filter
- Eco sleep mode
- Weekly time clock
- DC Inverter

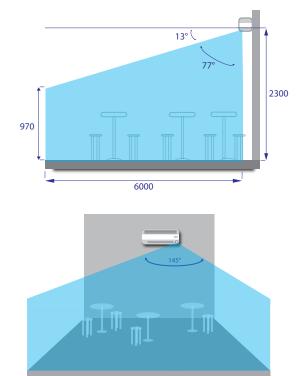
- 4 Way directional auto swing airflow
- Leave home function
- Power tracking display
- Air purifying filter
- Comprehensive 6 year parts and labour warranty for your home or business



BUILT-IN MOTION SENSOR WITH MOTION DETECT ECO MODE

The unit adapts its temperature settings depending on people's absence or presence saving you power.

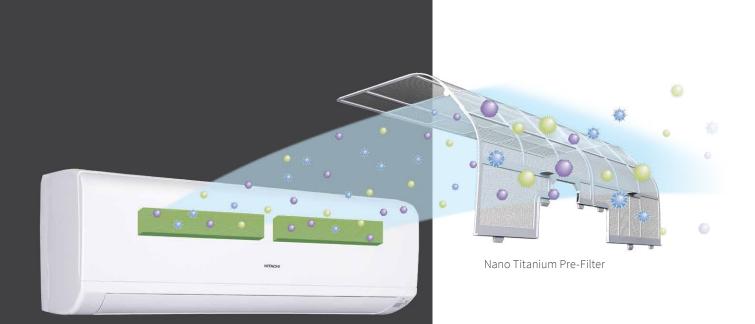




Motion detect mode

The sensor detects human movement when someone is in the room, during this time the unit will remain at the set temperature. Once the unit does not detect any movement for 20 minutes the set temperature shifts as described below, to save you power.

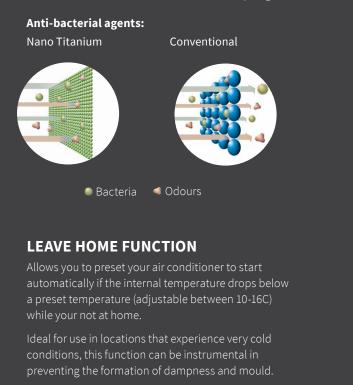
OLING set temperature	+1°C	+2°C	
During occupation the room stays at the set temperature	If motion is not dected for 20 minutes the set temperature shifts	If further motion is not detected for 40 minutes the set temperature shifts by another degree	When a person enters the room the unit returns to the set temperature.
ATING set temperature	-1°C	-2°C	
	ECO STEP 1 heating reduces by -1°C	ECO STEP 2 heating reduces by -2°C	
	cooling increases by +1°C	cooling increases by +2°C	



NANO TITANIUM PRE-FILTER

For those needing only the purest air quality, Hitachi's 'S' series features an additional Nano Titanium pre-filter as well as the unique Nano Titanium Wasabi air purifying filter.

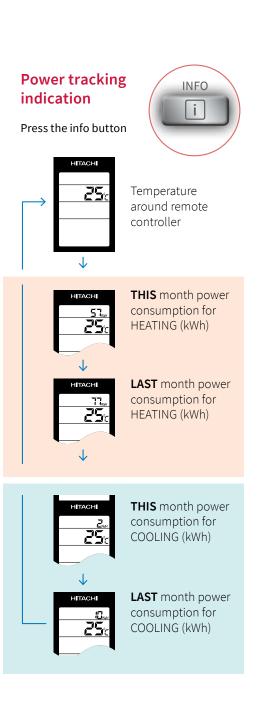
Nano Titanium Wasabi Air Purifying Filter



TRACKING POWER CONSUMPTION

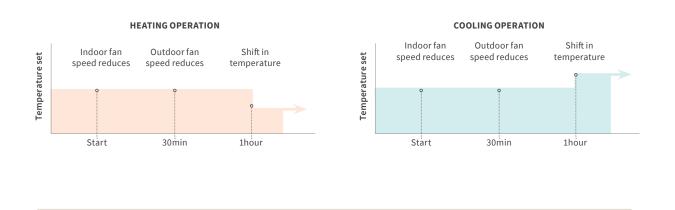
The wireless controller enables you to monitor your air conditioner's power usage, ensuring that there are no surprises when the electricity bill arrives.

See to the right



SLEEP MODE

A function that adapts 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.



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.

This is useful for periods such as summer/ winter and extended holidays.

Example of a programmed seven day schedule over summer

42 programs for each mode - 84 programs in total.

TIME	М	Л	TUE	WED	THUR	FRI	SA	т	SUN
6:00	1	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							
14:00	4	OFF	OFF	OFF	OFF	OFF			
16:00									
18:00	5	ON / 20°C	3	ON / 20°C					
20:00									
22:00	6	OFF	OFF	OFF	OFF	OFF	4	OFF	

'E' SERIES



KEY FEATURES

DC Inverter

- Air purifying filter
- Eco mode functions
- Ultra low standby power mode
- 4 Way directional auto swing airflow
- 12hr on/off time
- Comprehensive 6 year parts and labour warranty for your home or business

Impose any Sector
 O

- Sleep mode
- Powerful mode

HITACHI

EXTREME OUTDOOR TEMPERATURE OPERATION

Hitachi air conditioners can operate in outside temperatures down to as low as -15°C and as high as 46°C ensuring you stay comfortable when you need it.

DC INVERTER TECHNOLOGY

A DC compressor offers efficient 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.

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.

Incredibly small and highly dense, wasabi-modified Nano Titanium particles prevent microbes from passing through and deactivate them effectively.

See figure below

Nano Titanium Wasabi

4 WAY AUTO DIRECTIONAL 3D AIR SWING

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.

WHISPER QUIET

With the newly improved seamless fan control system, Hitachi's air conditioners assure extremely quiet and smooth fan speed changes for even more comfort.

POWERFUL MODE

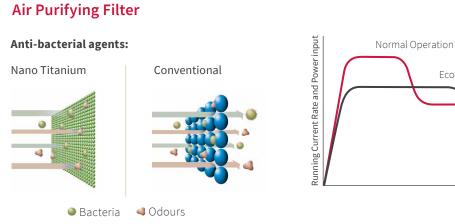
Powerful mode will run your system at maximum cooling or heating as well as maximum fan speed for 20-minutes projecting airflow further and faster to cool or heat a room rapidly.

ECO MODE

Programmed to run your system at a slightly reduced rate, Eco Mode helps keep your power consumption to a minimum enabling you to achieve significant energy savings.

Eco Operation

See figure below



Eco mode



Time

Optional Accessories

REMOTE ON/OFF ADAPTOR

Switches the unit on or off via a remote device such as a hotel room card key. Save energy by switching the unit off when the room is unoccupied.

RUN AND ALARM SIGNAL

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.

DEMAND RESPONSE MODULE (DRED)

Optional DRM module for instances where local requirements specify DRED compatibility.



SPX-WKT WIRED CONTROLLER

In addition to essential functions, you will have access to:

- Weekly programming: allows you to configure up to 5 different temperature ranges per day
- Ventilation speed
- The "holiday" function: deactivates the time clock to avoid operation when not required
- Your monthly consumption is saved and displayed
- Temperature limiting function
- Operation mode lock
- Error history



Hi-KUMO



Convenient and intuitive, Hi-Kumo offers WiFi control via smart device allowing you to control your Hitachi air conditioner from anywhere.

Optional accessory

With this application, you can:

- Simply and quickly pair all your compatible Hitachi units
- Create in seconds a weekly schedule to minimise your energy consumption
- Ensure optimal comfort in your home by checking the temperature at a glance
- Change modes and temperature
- Change airflow and louvre positions remotely
- Benefit from a comfortable environment on your return from holiday by activating 'Holiday Mode'
- Remotely control if the unit is on or off



Features and options comparison table

	S SERIES	E SERIES
Motion detect eco mode	•	-
Built-in motion sensor	•	_
Nano Titanium pre filter	•	-
Nano Titanium Wasabi filter	•	•
Basic eco mode function	•	•
Basic sleep mode	•	•
Eco sleep mode	•	_
Powerful mode	•	•
Ultra low standby power	•	•
4 way auto swing (up-down/left-right)	•	•
Auto restart function	•	•
12hr timer control	•	•
24/7 time clock function	•	
Leave home function	•	
Power tracking display	•	
24 HR On/Off timer	•	
One touch clean	•	
Operation mode lock	•	
SPX-RCKA2 wireless controller	•	
Remote on/off input		
SPX-WKT3 wired controller		
DRED Demand response module		
Run and fault signal		
Hi-Kumo WiFi control		

• STANDARD

□ OPTIONAL WITH SPX-RCKA2

OPTIONAL ACCESSORY

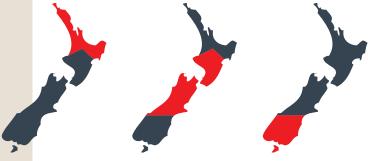
- NOT AVAILABLE

What size air conditioner do you need?

HITACHI SIZING GUIDE

Room

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



Size (m ²)	Average NZ Room Type	*	>	>
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 verfied by the installaton contractor.

<mark>S series</mark> - Tech Data

MODEL						
Indoor	RAS-S25YHA	RAS-S35YHA	RAS-S50YHA	RAS-S60YHA	RAS-S70YHA	RAS-S80YHA
Outdoor	RAC-S25YHA	RAC-S35YHA	RAC-S50YHA	RAC-S60YHA	RAC-S70YHA	RAC-S80YHA
Capacity kW						
Jominal Cooling	2.5	3.5	5.0	6.0	7.0	8.0
Iominal Heating	3.2	3.8	6.0	7.0	8.0	9.0
Capacity (Range) kW						
Cooling	0.9 - 3.1	0.9 - 4.0	1.2 - 5.8	1.2 - 6.5	1.5 - 8.0	1.5 - 8.5
leating	0.9 - 4.2	0.9 - 4.8	1.2 - 6.8	1.2 - 8.0	1.5 - 8.5	1.5 - 9.5
Nir Flow l/sec	140	100	250	250	202	202
ligh Cooling ligh Heating	142 158	189 217	258 250	258 250	283 300	283 300
nergy Efficiency	100	211	200	200		500
ER :OP	5.10 5.08	4.22 4.94	4.31	3.80	3.54 4.04	3.27 3.80
.OP tar Rating Cooling	5.08	4.94 3.5	4.29 4.0	4.05 3.0	4.04 2.5	3.80 2.0
tar Rating Cooling tar Rating Heating	5.5	3.5 5.0	4.0	3.5	3.5	3.0
ound Levels (dB(A))	5.5	5.0	4.0	5.5	5.5	5.0
ndoor Unit (Sound Pressure) Cooling - Hi / Med / Lo / Sleep	40/33/24/22	43 / 36 / 26 / 25	46/41/36/28	46/41/36/28	47 / 42 / 36 / 30	48 / 44 / 39 / 33
leating - Hi / Med / Lo / Sleep	40 / 33 / 24 / 22	44/36/27/26	46/41/36/28	46/41/36/28	47 / 42 / 36 / 30	48/44/40/34
utdoor Unit	11/ 31/ 23/ 20	11/ 30/ 21/ 20	10/ 11/ 30/ 20	10/11/30/20	11 / 12 / 30 / 30	10/11/10/51
ooling / Heating (Sound Pressure)	47 / 48	48/50	50 / 53	50/53	51/53	52 / 54
ound Power	61	62	63	63	64	66
vimensions (mm)	01	02				
ndoor (W x H x D)	780 x 280 x 230	780 x 280 x 230	1100 x 300 x 260	1100 x 300 x 260	1100 x 300 x 260	1100 x 300 x 260
Outdoor (W x H x D)	792 x 600 x 299	792 x 600 x 299	850 x 750 x 298	850 x 750 x 298	850 x 800 x 298	850 x 800 x 298
Veights (kg)						
ndoor / Outdoor	8.5 / 37.5	8.5 / 37.5	15/50	15/50	15/52	15/52
Operating Range						
Outdoor Op. Temp. (Cooling)	-10°C to 46°C	-10°C to 46°C	-10°C to 46°C	-10°C to 46°C	-10°C to 46°C	-10°C to 46°C
outdoor Op. Temp. (Heating)	-20°C to 21°C	-20°C to 21°C	-15°C to 24°C	-15°C to 24°C	-15°C to 24°C	-15°C to 24°C
efrigerant Type	+		R32	2		
Pipe Sizes (mm)	Ø6.35/Ø9.52	Ø6.35/Ø9.52	Ø6.35/Ø12.7	Ø6.35/Ø12.7	Ø6.35/Ø15.88	Ø6.35/Ø15.88
efig pre charge length (m)	20	20	30	30	30	30
1in / Max Pipe Length / Lift (m)	3/20/10	3/20/10	3/30/20	3/30/20	3/30/20	3 / 30 / 20
Condensate Drain (mm (OD))	+					
ower						
ower Supply	+		230 - 240 Volt / 50	Hz/1Phase		
ated Power Input - Cooling (kW)	0.49	0.83	1.16	1.58	1.98	2.45
ower Input Range - Cooling (kW)	0.25 ~ 1.22	0.25 ~ 1.4	0.3 ~ 2.6	0.3 ~ 2.6	0.3 ~ 2.7	0.3 ~ 2.7
ated Power Input - Heating (kW)	0.63	0.77	1.40	1.73	1.98	2.37
ower Input Range - Heating (kW)	0.25 ~ 1.2	0.25~1.6	0.3~2.65	0.3~2.65	0.5~2.8	0.5~2.8
lunning current (C / H) (Amps)					2.50-9.79/2.19-10.72	
Max Current (Amps)	9.8	9.8	10.5	10.5	12	12
ower supply To nterconnecting Wire						
				: Indoor 27°C db / 19°C wb		

Mains power source - AC 230V and 50Hz Refer to temperzone Warranty for full conditions.

anty for full conditions

Heating: Indoor 20°C db: Ambient 7°C db / 6°C db

5.0 - 8.0kW

RAS/RAC-S50YHA RAS/RAC-S60YHA RAS/RAC-S70YHA RAS/RAC-S80YHA



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2.5 - 3.5kW RAS/RAC-S25YHA RAS/RAC-S35YHA





Wireless Controller (SPX-RCKA2)



Outdoor unit (RAC-S50YHA)





6 YEAR WARRANTY



E series - Tech Data

MODEL						
Indoor Outdoor	RAS-E25YHA RAC-E25YHA	RAS-E35YHA RAC-E35YHA	RAS-E50YHA RAC-E50YHA	RAS-E60YHA RAC-E60YHA	RAS-E70YHA RAC-E70YHA	RAS-E80YHA RAC-E80YHA
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	0.9 - 3.1	0.9 - 4.0	1.2 - 5.8	1.2 - 6.5	1.5 - 8.0	1.5 - 8.5
Heating Air Flow l/sec	0.9 - 4.2	0.9 - 5.0	1.2 - 6.8	1.2 - 8.0	1.5 - 8.5	1.5 - 9.5
	140	190	242	242	202	283
High Cooling High Heating	142 158	189 217	242	242 221	283 300	300
Energy Efficiency						
	4.55	3.85	3.38	3.33	3.41	3.27
EER COP	4.55	3.85 4.30	3.38 4.05	3.33 3.83	3.41 4.04	3.27
Star Rating Cooling	4.0	2.5	2.0	2.0	2.0	2.0
Star Rating Cooling Star Rating Heating	4.5	3.5	3.5	3.0	3.5	3.0
Sound Levels (dB(A))	1.5	3.5	5.5	5.0	5.5	5.0
Indoor Unit (Sound Pressure) Cooling - Hi / Med / Lo / Sleep	40 / 33 / 24 / 22	43 / 36 / 26 / 25	47 / 39 / 33 / 26	48 / 42 / 33 / 30	47 / 42 / 36 / 30	48 / 44 / 39 / 33
Heating - Hi / Med / Lo / Sleep	40 / 33 / 24 / 22 41 / 34 / 23 / 20	44 / 36 / 27 / 26	47 / 39 / 33 / 26	49 / 42 / 34 / 33	47 / 42 / 36 / 30	48 / 44 / 40 / 34
Outdoor Unit						
Cooling / Heating (Sound Pressure)	46 / 47	47 / 48	50 / 53	50 / 53	51/53	52 / 54
Sound Power	60	61	63	63	64	66
Dimensions (mm)						
Indoor (W x H x D)	780 x 280 x 218	780 × 280 × 218	900 x 300 x 230	900 × 300 × 230	1100 x 300 x 260	1100 × 300 × 260
Outdoor (W x H x D)	750 x 548 x 288	750 x 548 x 288	850 x 750 x 298	850 x 750 x 298	850 x 800 x 298	850 x 800 x 298
Weights (kg)						
Indoor / Outdoor	8.5/34	8.5/34	11.5/50	11.5/50	15 / 52	15/52
Operating Range						
Outdoor Op. Temp. (Cooling)	-10°C to 46°C -15°C to 21°C	-10°C to 46°C -15°C to 21°C	-10°C to 46°C -15°C to 24°C			
Outdoor Op. Temp. (Heating)						
Refrigerant Type			R:	32		
Pipe Sizes (mm)	Ø6.35 / Ø9.52	Ø6.35 / Ø9.52	Ø6.35/Ø12.7	Ø6.35/Ø12.7	Ø6.35/Ø15.88	Ø6.35/Ø15.88
Refig pre charge length (m)	20	20	30	30	30	30
Min / Max Pipe Length / Lift (m)				3/30/20		3/30/20
Condensate Drain (mm (OD))	F			j		
Power						
Power Supply						
Rated Power Input - Cooling (kW)	0.55 0.25 ~ 1.29	0.91 0.25 ~ 1.46	1.48 0.3 ~ 2.6	1.80 0.3~2.6	2.05	2.45 0.3 ~ 2.7
Power Input Range - Cooling (kW) Rated Power Input - Heating (kW)		0.25 ~ 1.46	0.3~2.6 1.48	0.3~2.6 1.83		2.37
Power Input Range - Heating (kW)		0.93 0.25 ~ 1.7		1.83 0.3 ~ 2.65		2.37 0.5 ~ 2.8
Running Current (C / H) (Amps)					7 2.50-9.79/2.19-10.72	
Max Current (Amps)	98	9.8	10.5	10.5	12	12
Power supply To			Outac			

 Rated capacity measured in accordance with AS/NZS 3823 conditions: Cooling: Indoor 27°C db / 19°C wb: Ambient 35°C db

 Mains power source - AC 230V and 50Hz
 Heating: Indoor 20°C db: Ambient 7°C db / 6°C db

 Refer to temperzone Warranty for full conditions.
 Heating: Indoor 20°C db: Ambient 7°C db / 6°C db

7.0 - 8.0kW RAS/RAC-E70YHA RAS/RAC-E80YHA



5.0 - 6.0kW RAS/RAC-E50YHA RAS/RAC-E60YHA

НІТАСНІ	
	**

2.5 - 3.5kW RAS/RAC-E25YHA RAS/RAC-E35YHA



Standard Wireless Controller (RAR-5FA1)



Outdoor unit (RAC-E50YHA)





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Floor mounted - Tech Data

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 / 113 / 92	180 / 147 / 120 / 103
Energy Efficiency		
EER / AEER Cooling	3.80 / 3.74	3.34/3.30
COP / ACOP Heating	3.96 / 3.90	3.87 / 3.83
Star Rating Cooling	2.5	2.0
Star Rating Heating	3.0	3.0
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
Sound Power Level	64	67
Dimensions (mm)		
Indoor (W x H x D)	760 x 600 x 235	760 × 600 × 235
Outdoor (W x H x D)	841 x 548 x 335	887 × 600 × 345
Weights (kg)		
Indoor / Outdoor	14 / 36	14 / 40
Operating Range		
Outdoor Op. Temp. (Cooling)	-10°C to 43°C	-10°C to 43°C
Outdoor Op. Temp. (Heating)	-15°C to 24°C	-15°C to 24°C
Refrigerant Type	R410A	R410A
Pipe Sizes (mm)	Ø9.52/Ø6.35	Ø12.7 / Ø6.35
Refrig pre charge length	20	20
Min / Max Pipe Length / Lift	3/20/10	3 / 20 / 10
Power		
Power Supply	230 - 240 Volt / 50 Hz / 1 Phase	230 - 240 Volt / 50 Hz / 1 Phase
Run Amps / Phase (A/ph.)		
Cooling / Heating	4.12-4.5 / 4.61-5.04	6.36-6.93 / 6.99-7.62
Power Supply To		DutdoorUnit
Interconnecting Wire	2 Core + E	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 230V and 50Hz

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



Standard Wireless Controller* (RAR-3U1)



Outdoor unit (RAC-35NXA1)



6 YEAR WARRANTY



Wall Mounted Split Systems





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6 YEAR WARRANTY ON PARTS AND LABOUR*



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The specifications of this catalogue may change without prior notice to allow Hitachi Cooling & Heating to incorporate the latest innovations for its customers. The information contained in this catalogue is merely informative. Hitachi Cooling & Heating declines any responsibility in the broadest sense, for damage, direct or indirect, arising from the use and / or interpretation of the recommendations in this catalogue.

* Refer to NZ Hitachi Warranty for fully conditions.