# 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.



FROSTWASH







DIRECTIONAL AUTO SWING





REFRIGERANT



6 YEAR



**WIFI APP** 

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



AUTO RESTART AFTER POWER

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$\square$	$\square$

INSTALLATION



EASY ACCESS FOR SERVICING

# FrostWash Technology

01



FROSTWASH



# **KEY FEATURES**

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

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



# 6 YEAR WARRANTY\*





Premium Wireless Controller

# With FrostWash Technology



COOLING Energy Rating\*\*



### HEATING Energy Rating\*



\*\* RAS/RAC-S25YHAB, Based on 2013 GEMS determination

# **BUILT-IN MOTION SENSOR WITH MOTION DETECT ECO MODE**

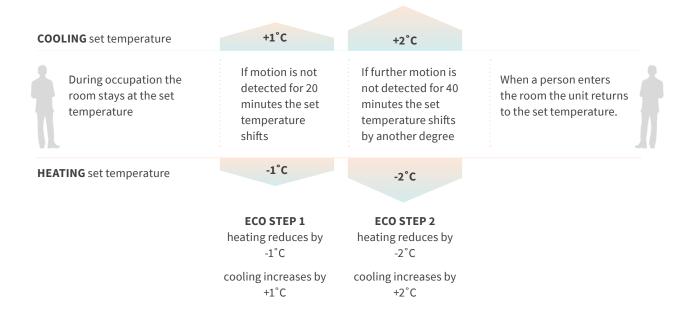
The unit adapts its temperature settings depending on people's absence or presence saving you power.

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.



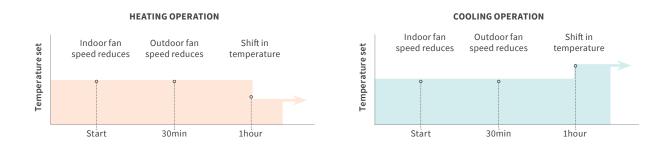
# Motion detect mode

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.



## **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.



# FrostWash Technology

With FrostWash, a revolutionary new cleaning technology, you can depend on cleaner, fresher air all year round.



FrostWash achieves a 91% reduction\* of bacteria and 87% reduction\* of mould in your unit.

# HITACHI



FROSTWASH



DUST PREVENTION



WATER DROPLET PREVENTION



LONG LASTING HYGIENIC AIR



Once an adequate layer of frost has been formed, the system then melts the ice, flushing away the trapped dust particles, mould and bacteria hygienically through the drain pan.

The unit then thoroughly dries the surfaces inside the unit before resuming normal operation.

The new Hitachi 'S' Series range of split systems offers many innovative features, from enhanced energy efficiency, to

2

As part of our commitment to constant improvement, we looked for an unprecedented need in our product offering that would allow us to improve our customer experience and create a point of difference that would set us apart.

### We identified that unmet need as cleanliness.

airflow control and ultra-quiet operation.

Because air is always travelling across the surface of the heat exchanger, dust mould and bacteria can accumulate, leading to reduced performance and perceivable odours. Keeping the heat exchanger clean is the key to better quality air.



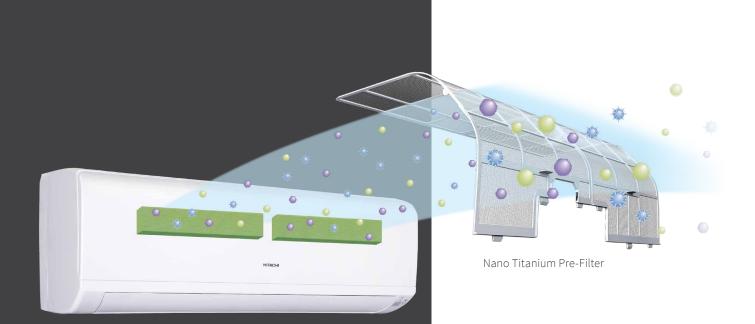
3

A clean heat exchanger not only keeps your unit operating at optimal efficiency, but also keeps the air in your home fresher and cleaner.

**FrostWash** addresses an issue that had long stumped the air conditioning industry - how to effectively and efficiently clean the inside of room air conditioning units.

While many customers will be familiar with the process of cleaning the filters inside air conditioners, cleaning inside the machine itself has usually required professional services. FrostWash was first introduced in the Japanese market, receiving overwhelming positive customer feedback. So much so, the innovators of this development received the **"Excellence Award"** by the **Japan Electrical Manufacturers Association** in 2018.

\*Feature introduction based on RAS/RAC-S35YHAB. Tested by Kitasato Research Centre of Environmental Science. Test No. 2019\_0154. Reduction effects of bacteria and mould were observed by operating FrostWash once.



## 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.

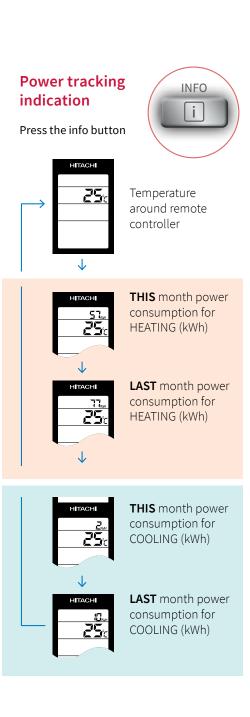
# Nano Titanium Wasabi Air Purifying Filter

# Anti-bacterial agents:Nano TitaniumConventionalImage: Conventional of the second second

# 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.

\*Approximate power consumption values are displayed and should not be considered as actual values.



# 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.

# 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.

# 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.

# 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	N	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	

# 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-WKT3 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
- Key lock function: locks all buttons on the remote controller, ideal for homes and offices.

# airCloud Home





# A smarter way to control your air conditioner. Anytime, anywhere.

# **CONTROL FROM ANYWHERE**

Making sure your home is at the perfect temperature for when you arrive has never been easier. Hitachi airCloud Home allows you to remotely monitor and control your system from a single app through your smartphone for convenient temperature management in the home.

# **CONTROL WITH YOUR VOICE**

airCloud Home is fully compatible with Amazon Alexa and Google Assistant, enabling you to control your air conditioner hands-free.

# **SMART FENCE**

Connect your air conditioner to your location and automatically stop and start your AC as you leave and return home.



# **AIRCLOUD FEATURES**

- On / Off Operation
- ALL Units OFF
- Operation Mode Selectable
- Temperature Adjustment
- Smart Speaker (Google Assistant & Amazon Alexa)
- Smart Fence
- Weekly Scheduling
- On / Off Timer
- Adjustable Louvre
- Fan Speed
- Free firmware updates to latest features
- Unlimited units can be controlled through one app
- Account Management
  - Access for up to 20 users
  - Set up user permissions
- Customer Support
- Personalisation Indoor unit naming
- Smart Notifications



# Features and options comparison table

	S SERIES	E SERIES
Efficiency - S & E Series Comparison	High	Standard
Warranty	6 Years*	5 Years
Automatic FrostWash	•	-
Motion detect eco mode	•	-
Humidity Sensor	•	-
Built-in motion sensor	•	-
Nano Titanium pre filter	•	-
Eco sleep mode	•	-
24/7 time clock function	•	
Power tracking display	•	
24 HR On/Off timer	•	
One touch clean	•	
Operation mode lock	•	
Leave home function	•	
Nano Titanium Wasabi filter	•	•
Basic eco mode function	•	•
Basic sleep mode	•	•
Manual FrostWash	•	•
Powerful mode	•	•
Ultra low standby power	•	•
4 way auto swing (up-down/left-right)	•	•
Auto restart function	•	•
12hr timer control	•	•
Premium wireless controller	•	
Remote on/off input		
SPX-WKT3 wired controller		
DRED Demand response module		
Run and fault signal		
Wifi connectivity		

\* Applicable to S Series YHAB models only, purchased after 1st April 2021. 5 Year Warranty for units purchased prior to April 2021.

STANDARD

□ OPTIONAL WITH PREMIUM CONTROLLER

OPTIONAL ACCESSORY

- NOT AVAILABLE



# Series - Tech Data

MODEL

MODEL						
ndoor	RAS-S25YHAB	RAS-S35YHAB	RAS-S50YHAB	RAS-S60YHAB	RAS-S70YHAB	RAS-S80YHAB
Dutdoor	RAC-S25YHAB	RAC-S35YHAB	RAC-S50YHAB	RAC-S60YHAB	RAC-S70YHAB	RAC-S80YHAB
Capacity kW						
Nominal Cooling	2.5	3.5	5.0	6.0	7.0	8.0
Nominal 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
Heating	0.9 - 4.2	0.9 - 4.8	1.2 - 6.8	1.2 - 8.0	1.5 - 8.5	1.5 - 9.5
Air Flow l/sec						
High Cooling	142	189	258	258	283	283
High Heating	158	217	250	250	300	300
Energy Efficiency						
EER	5.10	4.22	4.31	3.80	3.54	3.27
COP	5.08	4.94	4.29	4.05	4.04	3.80
Star Rating Cooling*	5.5	3.5	4.0	3.0	2.5	2.0
Star Rating Heating*	5.5	5.0	4.0	3.5	3.5	3.0
Sound Levels (dB(A))						
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
Heating - Hi / Med / Lo / Sleep	41 / 34 / 23 / 20	44 / 36 / 27 / 26	46/41/36/28	46/41/36/28	47 / 42 / 36 / 30	48 / 44 / 40 / 34
Dutdoor Unit						
Cooling / Heating (Sound Pressure)	47 / 48	48/50	50/53	50/53	51/53	52 / 54
Sound Power	61	62	63	63	64	66
Dimensions (mm)						
ndoor (W x H x D)	780 x 280 x 230	780 x 280 x 230	1100 x 300 x 260	1100 × 300 × 260	1100 x 300 x 260	1100 × 300 × 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
Weights (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
Refrigerant Type	H		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
Refig pre charge length (m)	20	20	30	30	30	30
Min / 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))						
Power						
Power Supply			230 - 240 Volt / 50	Hz/1Phase		
Rated Power Input - Cooling (kW)	0.49	0.83	1.16	1.58	1.98	2.45
Power 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
Rated Power Input - Heating (kW)	0.63	0.77	1.40	1.73	1.98	2.37
· –	0.25 ~ 1.2	0.25 ~ 1.6	0.3~2.65	0.3 ~ 2.65	0.5 ~ 2.8	0.5 ~ 2.8
Power input Range - Heating (kw)				2.31-8.55 / 1.67-9.66		
	1.09-5.30/1.09-5.22	1.09-0.09/1.09-0.90	2102 0100 / 2101 0100			
Power Input Range - Heating (kW) Running current (C / H) (Amps) Max Current (Amps)	9.8	9.8	10.5	10.5	12	12
Running current (C / H) (Amps)	9.8	9.8	10.5 Outdoor	Unit		

Mains power source - AC 230V and 50Hz. Refer to temperzone Warranty for full conditions. \*Star Ratings based on 2013 GEMS determination. 5.0 - 8.0kW

2.5 - 3.5kW

RAS/RAC-S50YHAB RAS/RAC-S60YHAB RAS/RAC-S70YHAB RAS/RAC-S80YHAB



**Premium Wireless** Controller



Outdoor unit (RAC-S50YHAB)





# E Series - Tech Data

MODEL						
Indoor Outdoor	RAS-E25YHAB RAC-E25YHAB	RAS-E35YHAB RAC-E35YHAB	RAS-E50YHAB RAC-E50YHAB	RAS-E60YHAB RAC-E60YHAB	RAS-E70YHAB RAC-E70YHAB	RAS-E80YHAB RAC-E80YHAB
Capacity kW						
Nominal Cooling	2.5	3.5	5.0	6.0	7.0	8.0
Nominal Heating	3.2	4.0	5.3	7.0	8.0	9.0
Capacity (Range) kW						
Cooling	1.0 - 3.2	1.0 - 4.0	1.0 - 5.5	1.2 - 6.5	1.5 - 8.0	1.5 - 8.5
Heating Air Flow l/sec	1.0 - 4.5	1.0 - 5.0	1.2 - 6.5	1.2 - 8.0	1.5 - 8.5	1.5 - 9.5
Hi / Med / Lo / Sleep	142/119/102/93	189/135/117/98	210/159/117/98	233/183/133/100	283/250/183/150	283/250/183/150
	142/113/102/93	109/100/111/90	210/139/111/98	233/103/133/100	203/230/103/130	203/230/103/130
Energy Efficiency						
EER	4.55	3.85	3.62	3.33	3.41	3.27
COP	4.71	4.30	3.90	3.83	4.04	3.80
Sound Levels (dB(A))						
Indoor Unit (Sound Pressure) Hi / Med / Lo / Sleep	40 / 33 / 24 / 22	43 / 36 / 26 / 25	47 / 39 / 33 / 26	49 / 42 / 33 / 30	48 / 42 / 36 / 30	49 / 44 / 39 / 33
Outdoor Unit						
Cooling / Heating (Sound Pressure)	46 / 47	47 / 48	50 / 52	50 / 53	51/53	52 / 54
Sound Power	60	61	63	63	64	66
Dimensions (mm)						
Indoor (W x H x D) Outdoor (W x H x D)	780 x 280 x 230 750 x 548 x 288	780 x 280 x 230 750 x 548 x 288	780 x 280 x 230 792 x 600 x 299	900 x 300 x 230 850 x 750 x 298	1100 × 300 × 260 850 × 800 × 298	1100 × 300 × 260 850 × 800 × 298
Weights (kg)						
Indoor / Outdoor	8.5/34	8.5/34	8.5 / 39.5	11.5 / 50	15 / 52	15 / 52
Operating Range						
Outdoor Op. Temp. (Cooling) Outdoor Op. Temp. (Heating)	-10°C to 46°C -15°C to 24°C	-10°C to 46°C -15°C to 24°C				
Refrigerant Type			R			
0 ,,	ac 25 / ac 50				ac 25 / at 5 20	
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) Min / Max Pipe Length / Lift (m)	20 3 / 20 / 10	20 3 / 20 / 10	30 3 / 30 / 20	30 3 / 30 / 20	30 3 / 30 / 20	30 3 / 30 / 20
Condensate Drain (mm (OD))	H			6		
Power						
Power Supply	230 - 240 Volt / 50 Hz / 1 Phase					
Rated Power Input - Cooling (kW)	0.55	0.91	1.38	1.80	2.05	2.45
Power Input Range - Cooling (kW)	0.25~1.29	0.25~1.46	0.5~2.1	0.3~2.6	0.3~2.7	0.3~2.7
Rated Power Input - Heating (kW)	0.68	0.93	1.36	1.83	1.98	2.37
Power Input Range - Heating (kW)	0.25 ~ 1.25	0.25~1.7	0.5~2.75	0.3~2.65	0.5~2.8	0.5 ~ 2.8
Rated Running Current (C / H) (Amps) Max Current (Amps)	2.81/3.48 7.0	4.65 / 4.76 8.1	6.06 / 5.97 11	7.95 / 8.07 12	9.00 / 8.07 12	10.8 / 10.45 12
Power supply To						
Interconnecting Wire	Outdoor Unit     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 wb

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

**7.0 - 8.0kW** RAS/RAC-E70YHAB RAS/RAC-E80YHAB



**6.0kW** RAS/RAC-E60YHAB

**2.5 - 5.0kW** RAS/RAC-E25YHAB RAS/RAC-E35YHAB

RAS/RAC-E50YHAB



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Wireless Controller



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5 YEAR WARRANTY



# **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 × 548 × 335	887 x 600 x 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 Interconnecting Wire	2 Core + E	OutdoorUnit 2 Core + E		
		20016 1 L		

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



Standard Wireless Controller\* (RAR-3U1)



Outdoor unit (RAC-35NXA1)



5 YEAR WARRANTY







# temperzone Australia Pty Ltd

### ENQUIRIES

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Melbourne:	(03) 8769 7600
Brisbane:	(07) 3308 8333
Adelaide:	(08) 8115 2111

### DISTRIBUTORS

Newcastle:	(02) 4962 1155
Perth:	(08) 6399 5900
Launceston:	(03) 6331 4209

### NEW ZEALAND

Auckland:	(09) 279 5250
Hamilton:	(07) 839 2705
Wellington:	(04) 569 3262
Christchurch:	(03) 379 3216



# Must be maintained in accordance with maintenance recommendations.

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