

HITACHI

# Wall Mounted Split Systems

**FrostWash** Technology 

Cooling & Heating



air

# 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



REVERSE  
CYCLE



DIRECTIONAL  
AUTO SWING  
LOUVRES



AIR PURIFYING  
FILTER



LOW GWP  
REFRIGERANT



5 YEAR  
WARRANTY



WIFI APP



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



AUTO RESTART  
AFTER POWER  
FAILURE

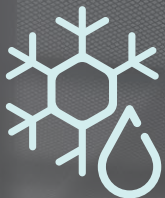


EASY  
INSTALLATION



EASY ACCESS  
FOR SERVICING

# FrostWash Technology



FROSTWASH

10

air

# 'S' SERIES

## 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 5 year parts and labour warranty for your home or business

## COOLING Energy Rating\*



## HEATING Energy Rating\*



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



Premium Wireless  
Controller

With **FrostWash** Technology



FROSTWASH

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

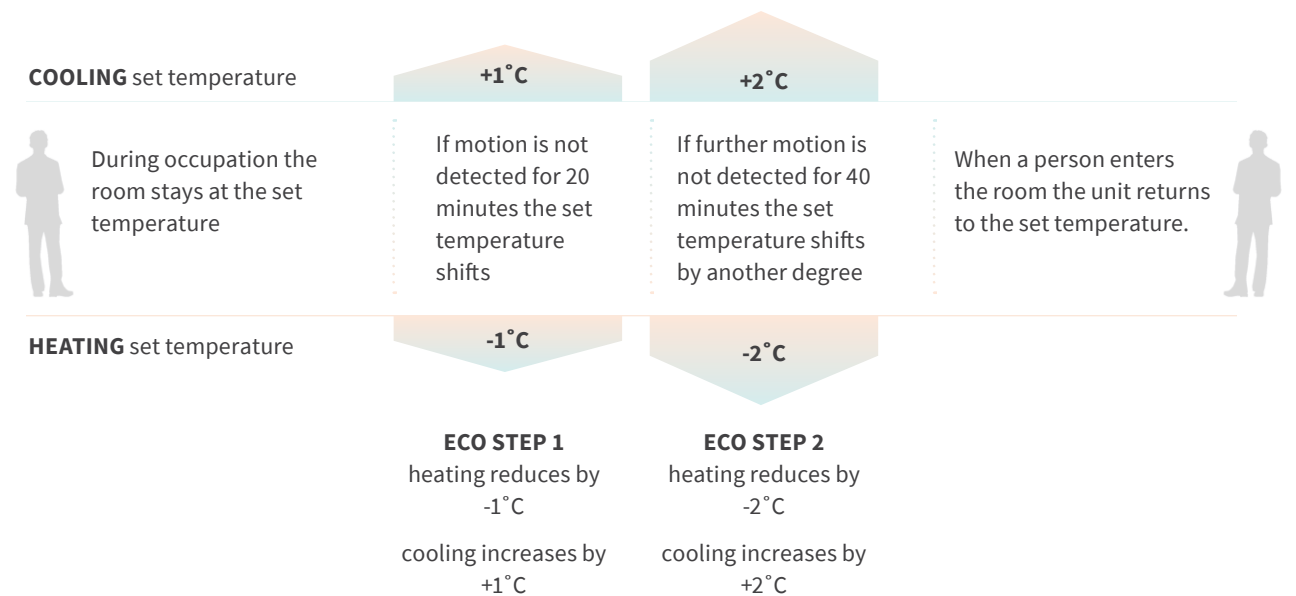
The unit adapts its temperature settings depending on people's absence or presence saving you power.

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.



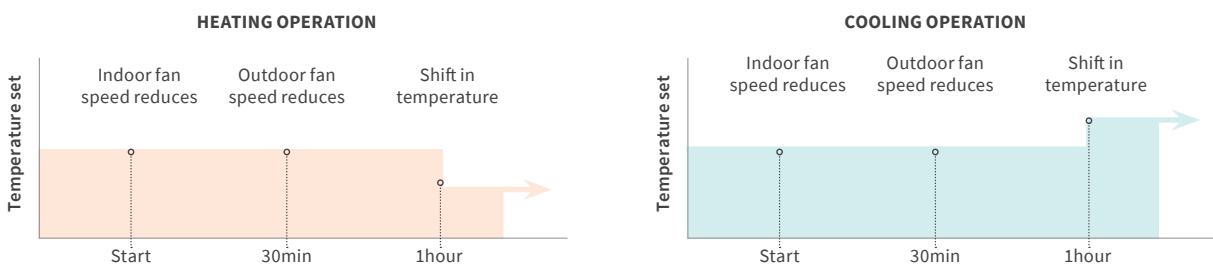
### Motion detect mode

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.

# Freeze

The system cools the heat exchanger down to  $-15^{\circ}\text{C}$  forming a thin layer of frost from the moisture within the air. While the frost is being formed, it lifts dust particles, mould and bacteria off the heat exchanger and traps it.

1



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



FROSTWASH



DUST PREVENTION



WATER DROPLET PREVENTION



LONG LASTING HYGIENIC AIR

# & Melt

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.

2



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.

The new Hitachi 'S' Series range of split systems offers many innovative features, from enhanced energy efficiency, to airflow control and ultra-quiet operation.

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.

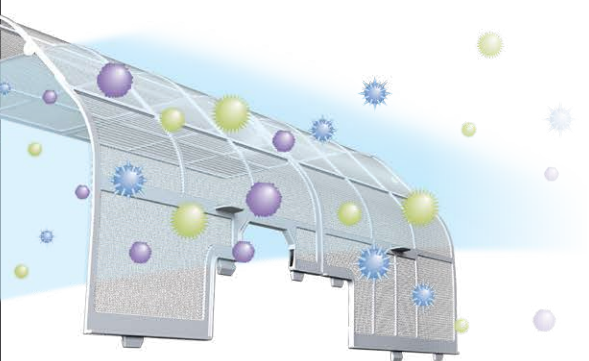
**We identified that unmet need as cleanliness.**

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.

**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

### NANO TITANIUM PRE-FILTER

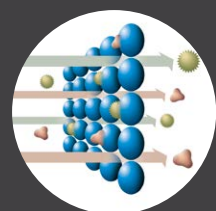
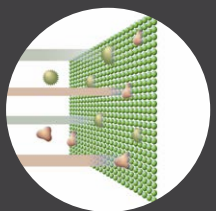
For those needing only the purest air quality, Hitachi's 'S' series features an additional Nano Titanium pre-filter as well as the unique Nano Titanium Wasabi air purifying filter.

### Nano Titanium Wasabi Air Purifying Filter

#### Anti-bacterial agents:

Nano Titanium

Conventional



● Bacteria    ● Odours

### LEAVE HOME FUNCTION

Allows you to preset your air conditioner to start automatically if the internal temperature drops below a preset temperature (adjustable between 10-16C) while your not at home.

Ideal for use in locations that experience very cold conditions, this function can be instrumental in preventing the formation of dampness and mould.

### 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.

### Power tracking indication



Press the info button

Temperature around remote controller

**THIS** month power consumption for HEATING (kWh)

**LAST** month power consumption for HEATING (kWh)

**THIS** month power consumption for COOLING (kWh)

**LAST** month power consumption for COOLING (kWh)



### 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	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	2 OFF	
10:00							
12:00	3 ON / 20°C	ON / 20°C	ON / 20°C	ON / 20°C	ON / 20°C	3 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	4 OFF	
20:00							
22:00	6 OFF	OFF	OFF	OFF	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



Download today



[www.aircloudhome.com](http://www.aircloudhome.com)

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

## CONTROL FROM ANYWHERE

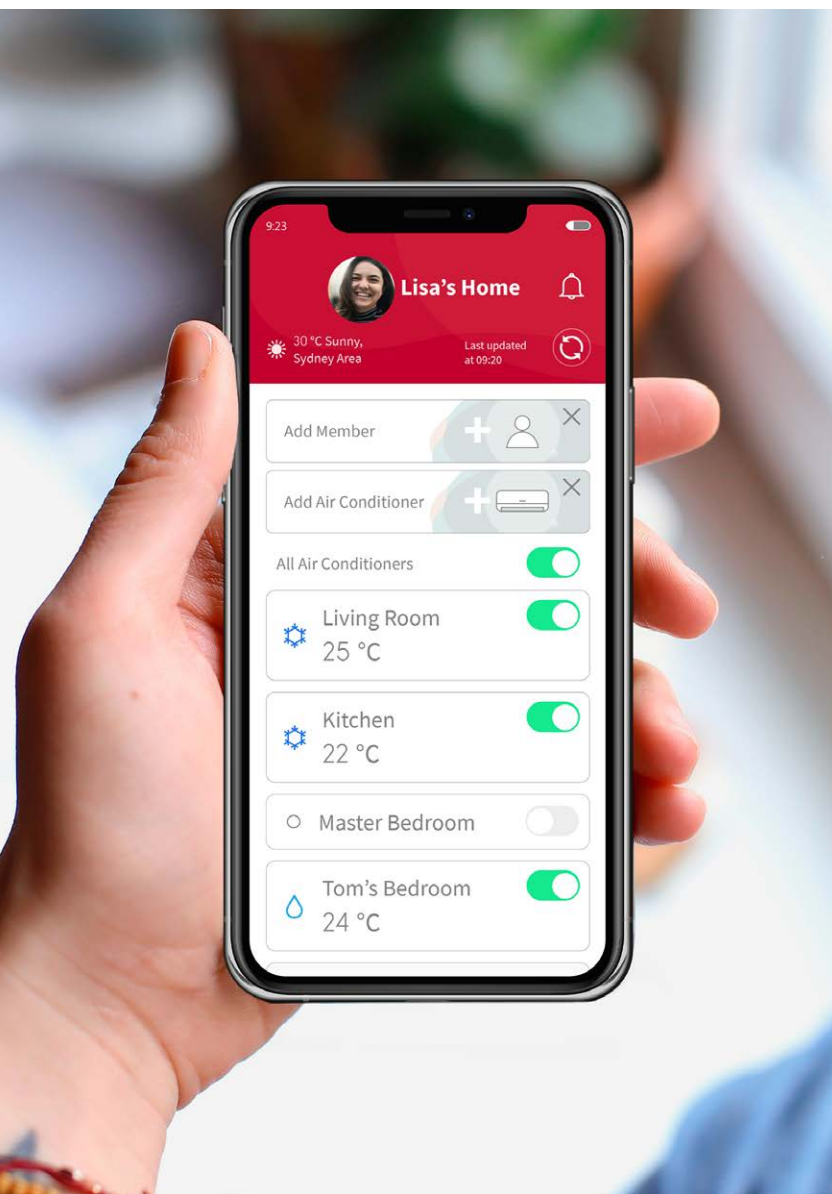
Making sure your home is at the perfect temperature for when you arrive has never been easier. Hitachi airCloud Home allows you to remotely monitor and control your system from a single app through your smartphone for convenient temperature management in the home.

## CONTROL WITH YOUR VOICE

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

## AIRCLOUD FEATURES

- On / Off Operation
- ALL Units OFF
- Operation Mode Selectable
- Temperature Adjustment
- Smart Speaker (Google Assistant & Amazon Alexa)
- Weekly Scheduling
- On / Off Timer
- Adjustable Louvre
- Fan Speed
- OTA Firmware Updates
- Account Management
  - Share access with up to 10 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
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	●	□
Premium wireless controller	●	■
Nano Titanium Wasabi filter	●	●
Basic eco mode function	●	●
Basic sleep mode	●	●
Manual FrostWash	●	●
Powerful mode	●	●
Leave home function	●	●
Ultra low standby power	●	●
4 way auto swing (up-down/left-right)	●	●
Auto restart function	●	●
12hr timer control	●	●
Remote on/off input	■	■
SPX-WKT3 wired controller	■	■
DRED Demand response module	■	■
Run and fault signal	■	■
Wifi connectivity	■	■

- STANDARD
- OPTIONAL WITH PREMIUM CONTROLLER
- OPTIONAL ACCESSORY
- NOT AVAILABLE





# S Series - Tech Data

## MODEL

Indoor	RAS-S25YHAB	RAS-S35YHAB	RAS-S50YHAB	RAS-S60YHAB	RAS-S70YHAB	RAS-S80YHAB
Outdoor	RAC-S25YHAB	RAC-S35YHAB	RAC-S50YHAB	RAC-S60YHAB	RAC-S70YHAB	RAC-S80YHAB
<b>Capacity kW</b>						
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
<b>Capacity (Range) kW</b>						
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
<b>Air Flow l/sec</b>						
High Cooling	142	189	258	258	283	283
High Heating	158	217	250	250	300	300
<b>Energy Efficiency</b>						
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
<b>Sound Levels (dB(A))</b>						
<b>Indoor Unit (Sound Pressure)</b>						
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
<b>Outdoor Unit</b>						
Cooling / Heating (Sound Pressure)	47 / 48	48 / 50	50 / 53	50 / 53	51 / 53	52 / 54
Sound Power	61	62	63	63	64	66
<b>Dimensions (mm)</b>						
Indoor (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
<b>Weights (kg)</b>						
Indoor / Outdoor	8.5 / 37.5	8.5 / 37.5	15 / 50	15 / 50	15 / 52	15 / 52
<b>Operating Range</b>						
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	R32					
<b>Pipe Sizes (mm)</b>						
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))	16					
<b>Power</b>						
Power Supply	230 - 240 Volt / 50 Hz / 1 Phase					
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
Power 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
Running current (C / H) (Amps)	1.09-5.30 / 1.09-5.22	1.09-6.09 / 1.09-6.96	2.31-8.55 / 1.67-9.66	2.31-8.55 / 1.67-9.66	2.50-9.79 / 2.19-10.72	2.50-9.79 / 2.19-10.72
Max Current (Amps)	9.8	9.8	10.5	10.5	12	12
Power supply To	OutdoorUnit					
Interconnecting Wire	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.

\*Star Ratings based on 2013 GEMS determination.

**5.0 - 8.0kW**

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



**2.5 - 3.5kW**

- RAS/RAC-S25YHAB
- RAS/RAC-S35YHAB



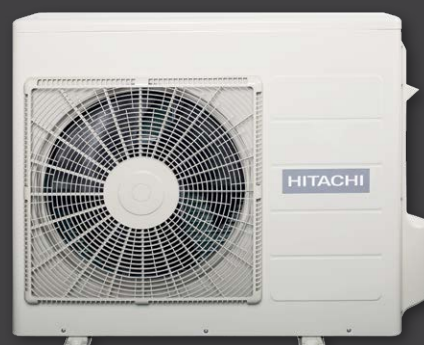
FROSTWASH

**Premium Wireless Controller**



**Outdoor unit**  
(RAC-S50YHAB)

**R32**  
REFRIGERANT



# 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
<b>Capacity kW</b>						
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
<b>Capacity (Range) kW</b>						
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	1.0 - 4.5	1.0 - 5.0	1.2 - 6.5	1.2 - 8.0	1.5 - 8.5	1.5 - 9.5
<b>Air Flow l/sec</b>						
High Cooling	142	189	210	250	320	340
High Heating	158	217	238	250	330	350
<b>Energy Efficiency</b>						
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
<b>Sound Levels (dB(A))</b>						
<b>Indoor Unit (Sound Pressure)</b>						
Cooling - Hi / Med / Lo / Sleep	40 / 33 / 24 / 22	43 / 36 / 26 / 25	47 / 39 / 33 / 26	49 / 42 / 33 / 30	49 / 44 / 39 / 33	50 / 44 / 39 / 33
Heating - Hi / Med / Lo / Sleep	41 / 34 / 23 / 20	44 / 36 / 27 / 26	47 / 39 / 33 / 26	49 / 42 / 34 / 33	49 / 44 / 39 / 33	49 / 44 / 39 / 33
<b>Outdoor Unit</b>						
Cooling / Heating (Sound Pressure)	46 / 47	47 / 48	50 / 52	50 / 53	51 / 53	52 / 54
Sound Power	60	61	63	63	64	65
<b>Dimensions (mm)</b>						
Indoor (W x H x D)	780 x 280 x 230	780 x 280 x 230	780 x 280 x 230	900 x 300 x 230	1100 x 300 x 260	1100 x 300 x 260
Outdoor (W x H x D)	750 x 548 x 288	750 x 548 x 288	792 x 600 x 299	850 x 750 x 298	850 x 800 x 298	850 x 800 x 298
<b>Weights (kg)</b>						
Indoor / Outdoor	8.5 / 34	8.5 / 34	8.5 / 39.5	11.5 / 50	15 / 52	15 / 52
<b>Operating Range</b>						
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)	-15°C to 24°C	-15°C to 24°C	-15°C to 24°C	-15°C to 24°C	-15°C to 24°C	-15°C to 24°C
Refrigerant Type	R32					
<b>Pipe Sizes (mm)</b>	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 / 10	3 / 30 / 20	3 / 30 / 20	3 / 30 / 20
Condensate Drain (mm (OD))	16					
<b>Power</b>						
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
Running Current (C / H) (Amps)	1.04-5.86/1.04-5.68	1.04-6.63/1.04-7.73	2.10-11.19 / 2.27-9.67	2.31-8.55/1.67-9.66	2.50-9.79 / 2.19-10.72	2.50-9.79 / 2.19-10.72
Max Current (Amps)	7.0	8.1	10.5	10.5	12	12
Power supply To	Outdoor Unit					
Interconnecting Wire	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



**Wireless Controller**



**Outdoor unit**  
(RAC-E50YHAB)

**R32**  
REFRIGERANT

