

# HITACHI

HEAT PUMPS

## Technical Guide

Split System: Inverter Heat Pumps

Another  
**HITACHI**  
Day



# Another Hitachi Day



*Imagine choosing your perfect day then instantly creating it in the comfort of your own home. With Hitachi heat pumps you create your favourite season anytime, at the touch of a button. The choice is yours. Welcome to Another Hitachi Day.*

## Hitachi Heat Pumps

The DC Inverter Split System heat pumps have been developed to provide exceptional comfort, easy operation, substantial power savings and full automatic control for homes, apartments, shops, offices and small buildings.

The latest range of heat pumps demonstrate Hitachi's technological leadership, with low noise, high efficiency and simple self-diagnostic controls all wrapped up in smart, compact units.



### Technology

With over 5% of revenue invested in research and development programmes, Hitachi has developed world-leading technologies including some of the most advanced air conditioning systems currently available. Be confident in knowing that your Hitachi DC Inverter system uses a refrigerant (R410A) that is non-toxic, non-flammable with zero ozone depletion.



### Easy Installation

Compact, lightweight with flexible piping and wiring, Hitachi's DC Inverter units allow easy installation in any environment.



### Energy Star

This logo is awarded to appliances that are among the most energy efficient on the market in their class at the time of testing. Only Energy Star models can qualify for a heat pump subsidy under EECA's 'Warm Up NZ' campaign.



(Refer pages 10 and 14 Specification tables).



### Peace of Mind

Temperzone Ltd distributes Hitachi heat pumps throughout New Zealand. Hitachi heat pumps from temperzone have a 6 year warranty on parts and labour.

It's a comfort to know that this warranty is backed by Temperzone Ltd, the largest air conditioning manufacturer and exporter in Australasia: founded, owned and operated by New Zealanders since 1956.

# There's a Hitachi to Suit Your Day



RAS-50YHA3 RAS-60YHA3

*In a climate as diverse as ours you need a reliable temperature control system that responds to the environment quickly and efficiently.*

The Hitachi DC Inverter Wall and Floor Split System heat pumps have been designed to offer the best possible efficient and effective comfort at the touch of a button, even under extreme outside temperatures. Selecting the most suitable system is key to maximising performance, optimising comfort and minimising energy consumption. Our range of heat pumps offer superior filtration and effective distribution of clean air – maintaining a comfortable temperature throughout the room.



## Inverter Split Systems

### Outdoor Units



RAC-25YHA3 RAC-35YHA4



RAC-50YHA3 RAC-60YHA3

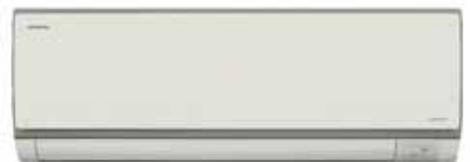


RAC-70YHA3 RAC-80YHA3



RAF-35NXA1 RAF-50NXA1

### Indoor Units



RAS-25YHA3 RAS-35YHA4



RAS-70YHA3 RAS-80YHA3

# Titanium Super Air Purification



## Nano Titanium Air Purifying Filter

Shuts out germs, bacteria and allergens.

Nano Titanium particles are minute particles that catch and neutralise bacteria, mould and odour molecules which are approximately 1,000 times larger.

The Air Purifying Filter uses both these incredibly small nano titanium particles and anti-bacterial Silver Agents to trap and eliminate microbes as well as neutralise allergens and remove harmful substances such as formaldehyde.

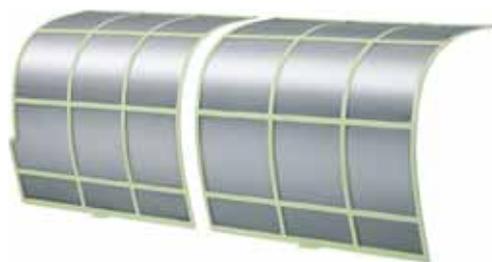


## Nano Titanium Pre-Filter\*

The pre-filter which covers the entire air inlet to stop dust and other particles from entering is also coated with nano titanium.

The two-stage action of nano titanium in both the pre-filter and the purifying filter ensures that bacteria and odours are removed from the air.

\*Optional Nano Titanium on RAS-25/35.



Nano Titanium Stainless filter

Before cleaning

After cleaning



A single wipe removes dust

Stainless on RAS-50/60/70/80 models.

Conventional filter

Before cleaning

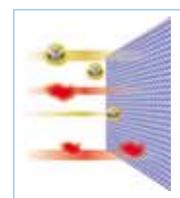
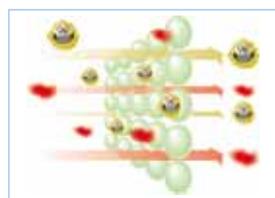
After cleaning



Dust remains trapped in the mesh

Conventional antibacterial agents

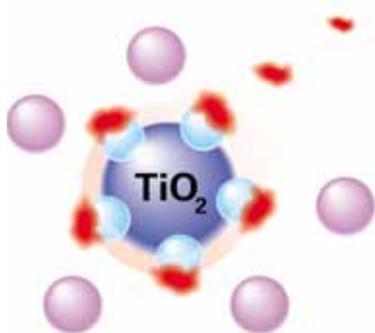
Nano Titanium agents



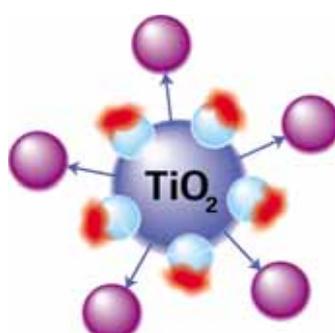
Bacteria  Odours 

High density Nano Titanium particles prevent microbes from getting through and eliminate them efficiently.

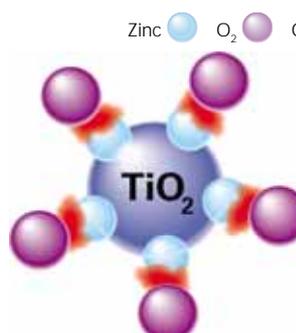
## Principle of Nano Titanium's Action



Zinc catches odour molecules



Titanium Oxide (TiO<sub>2</sub>) generates O<sub>2</sub> radicals from oxygen in the air



The O<sub>2</sub> radicals neutralise odour molecules caught by the zinc



The odour is neutralised and the zinc is then ready to catch odour molecules again



## Deactivation Effect

Sample: *Escherichia coli*.

Bacteria (sample *Escherichia coli*) is deactivated by 99% in 24 hours.  
(Tested by SIRIM QAS International Sdn. Bhd. Report No: 2004KLO100).

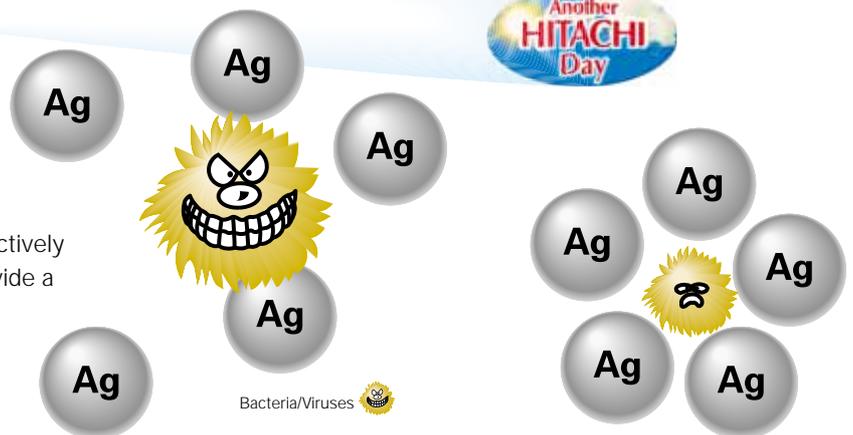


## Silver Action

### Silver Agents.

Silver agents are also included in the air purifying filter to efficiently catch and deactivate bacteria.

Using the action of the nano titanium catalyst which is 1/200 the size of regular antibacterial and silver agents, the Nano Titanium Air Purifying Filter effectively captures and neutralises microbes to provide a powerful room deodorising effect.



# Total Hitachi Comfort

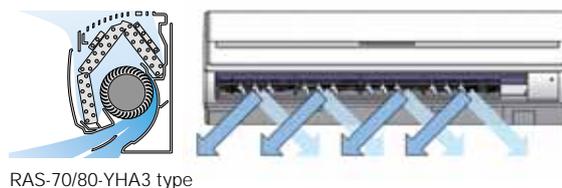
## Totally Safe...

Even when you are not at home.

The unit sits high on the wall out of reach of children. There are no ugly electric cords on the floor to trip over, no flammable fluids, no fumes and no dangerous hot elements.

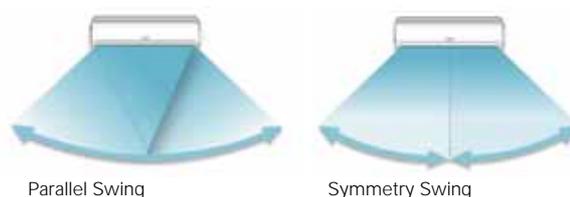
## High Energy Efficiency

The advanced design of the multi-dimensional Heat Exchanger allows for a wider air inlet path across the heat exchanger to optimise the heat exchange ratio.



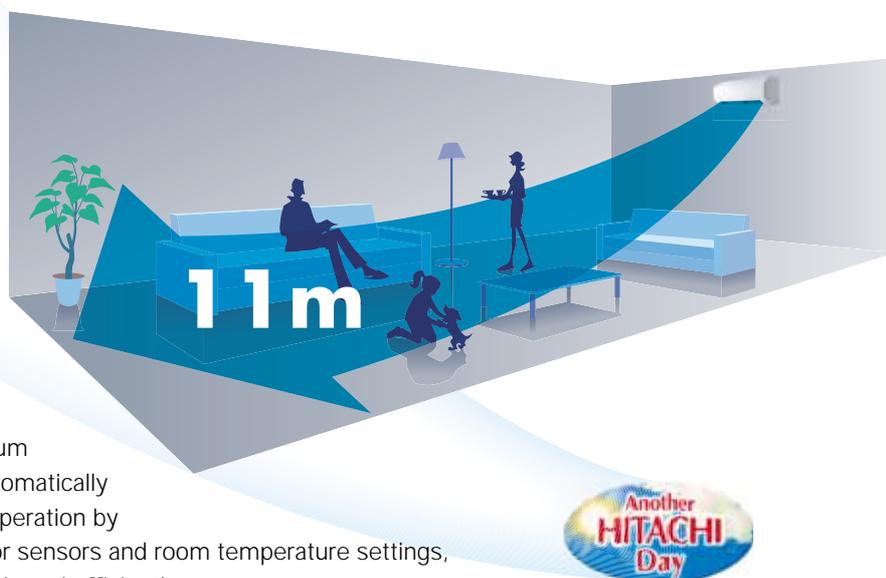
## Wall to Wall Comfort\*

Selected Hitachi models have a two-way air flow system for efficient air distribution. The louvres not only move up and down automatically but also left and right. This action and the design of the directional air flow flap, which minimises air resistance, ensures the air is dispersed evenly to maintain the temperature throughout the whole room.



## Long Air Flow Reach\*

The Twin Parallel and Symmetry Auto Swing maximises air flow. This means air can reach a comfortable room temperature more quickly.



## Fuzzy Logic Control

The built in microcomputer takes account of previous and current conditions and sets the advanced activation timer to provide the optimum temperature. This control system automatically provides optimal cooling or heating operation by using a combination of indoor/outdoor sensors and room temperature settings, to adjust the room temperature quickly and efficiently.

## Easy to Clean

The front panel on all Hitachi air conditioning units can be cleaned with a single wipe or detached for a complete wash.



\*Applicable to RAS-70YHA3 and RAS-80YHA3 models



RAS-70YHA3 RAS-80YHA3



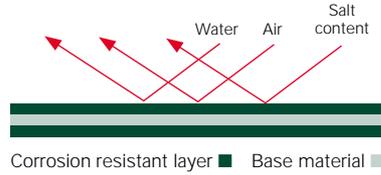
RAS-50YHA3 RAS-60YHA3



RAS-25YHA3 RAS-35YHA4

## Outdoor Durability

With its special anti-corrosion "green" coating, the Green Fin Condenser lasts up to three times as long as standard types. This coating on the outdoor heat exchanger assures better performance and improves durability even in tough conditions such as those in coastal areas. \* Models RAS-25YHA3 and RAS-35YHA4 have a transparent anti-corrosion treatment applied.



Green anti-corrosion coating\*

## Low Starting Current and Auto Restart

Hitachi DC Inverter technology uses a low starting current, to minimise power usage at start up. For convenience, Hitachi heat pumps are able to memorise the precise operation mode, air flow, temperature and timing settings. If there is a power cut, settings will automatically reset to the original operating mode once power is restored.



## LCD Remote System Controllers

The handy infrared remote control allows you to accurately select the desired room temperature from the comfort of your armchair. All commands are shown clearly on the liquid crystal display. A smart system of one touch buttons can create the perfect environment with ease.



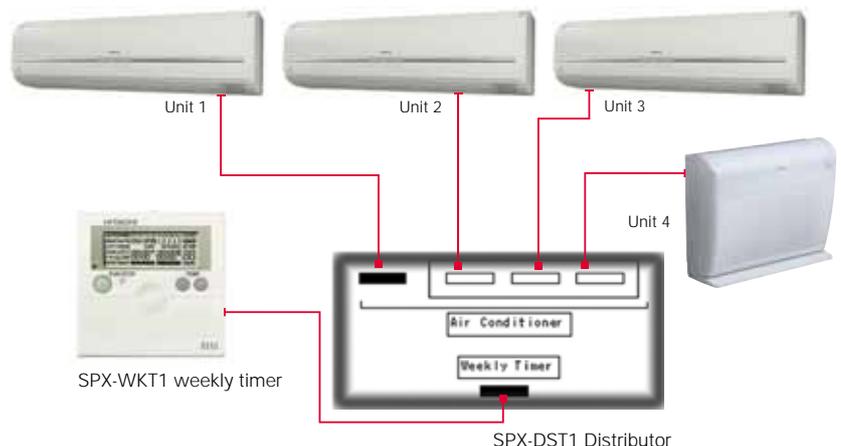
The new SPX-WKT1 Weekly Timer is an optional extra. It is particularly useful in offices with several units. It offers 5 different programs for each calendar day with start and end times and temperature control. You can customise settings for "Weekly Program", say to turn off in the weekend but override with the "Temporary Operation Mode" if necessary.

There is a choice of 5 fan settings: Auto/High/Medium/Low/Sleep.



SPX-WKT1 Weekly Timer – featuring remote functions

## Optional multiple units control using single Weekly Timer with Distributor

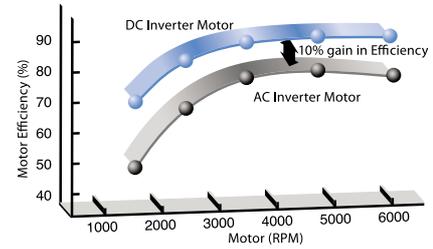


# Hitachi Innovation

## All DC Inverter

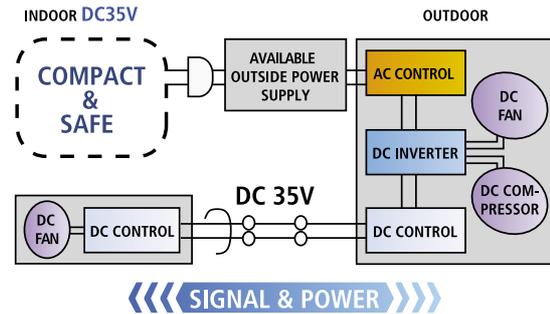
### Energy efficiency

The "permanent magnet" motor featured in the DC compressor maintains magnetic current without the need for a constant source of electricity. This ensures the motor suffers less ambient energy loss, delivering 10% greater efficiency than equivalent AC inverters.



### Compact design

The DC system is designed so all transformers and relays are located in the outdoor unit which performs the AC-DC conversion. The result is a compact, stylish and quiet indoor unit.

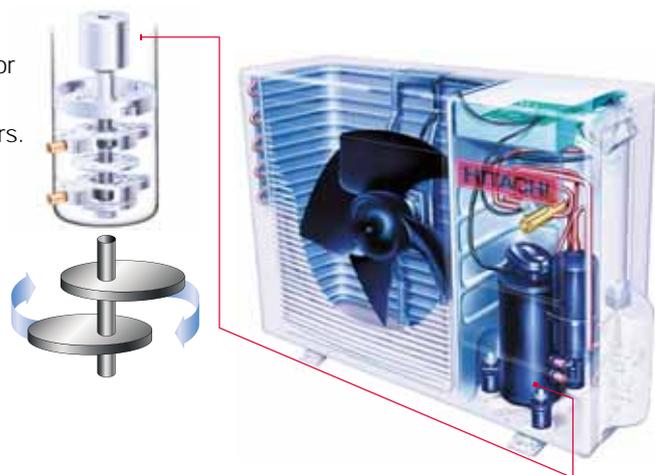


### Installation safety

Utilising a low DC current of only 35V ensures absolute safety during the installation process (specific models apply).

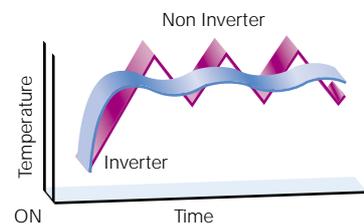
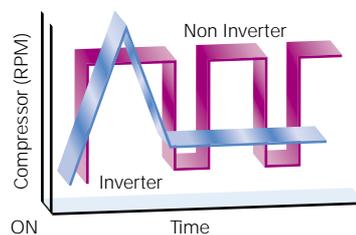
## DC Inverter Twin Rotary Compressor

Hitachi Inverter heat pumps feature a twin rotary compressor that operates with less vibration and delivers even higher performance efficiency than conventional rotary compressors. The two independent, rotating cylinders ensure a well balanced, smoother rotation which minimises noise and improves efficiency.



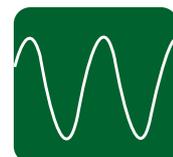
### Power Saving

Inverter technology allows a room to reach the required temperature more rapidly, offering up to 30% more efficiency and also eliminates the stop-start operation used by constant speed systems. Hitachi Inverters adjust (increase/decrease) the speed of the compressor to an energy saving mode in order to maintain the desired temperature.



### PAM System

The Hitachi Power Active Model (PAM) Inverter System suppresses electrical distortion to minimise power losses to less than 1%. Heating performance is particularly improved to ensure efficient performance even when the ambient temperature is -15°C.



PAM Inverter



Conventional Converter

These performances are based on RAS/RAC-X18CX



### Full Flat Panel

The elegant, compact "Full Flat" fascia panel draws air through the top of the unit and diagonally across the heat exchanger, this combined with the simple yet highly efficient conical shape fan, using tangential blade design, means that air is carried through the panel more efficiently, covering a wider area and in near silence.



Anti-bacterial treated tangential fan

### Hitachi DC Inverter Models – STAR RATINGS

RAS-25YHA3 – 2.5/3.4kW	
RAS-35YHA4 – 3.5/4.5kW	
RAS-50YHA3 – 5.0/6.1kW	
RAS-60YHA3 – 6.0/7.0kW	
RAS-70YHA3 – 7.0/8.3kW	
RAS-80YHA3 – 8.0/9.0kW	

The more stars, the more energy efficient.

\*Features may vary by model. Please check specifications table. Specifications are subject to change with product improvement and without notification. It remains the contractor's responsibility to determine that the power supply is in accordance with the above specifications and all local electrical codes and authorities.

# Inverter Split System Reverse Cycle

Note: Features and technical specifications indicative only



Model: Indoor Unit - Wall Mount	RAS-25YHA3	RAS-35YHA4	RAS-50YHA3	RAS-60YHA3	RAS-70YHA3	RAS-80YHA3
Model: Outdoor Unit	RAC-25YHA3	RAC-35YHA4	RAC-50YHA3	RAC-60YHA3	RAC-70YHA3	RAC-80YHA3

## Capacity

Cooling Capacity (kW)	2.5	3.5	5.0	6.0	7.0	8.0
Range (kW)	0.9 - 3.1	1.1 - 4.2	0.9 - 5.8	0.9 - 6.8	1.5 - 8.3	1.5 - 8.5
Sensible Cooling (kW)	2.15	2.94	3.86	4.40	5.50	6.15
Heating Capacity (kW)	3.4	4.5	6.1	7.0	8.3	9.0
Range (kW)	0.9 - 4.4	1.1 - 5.6	0.9 - 6.8	0.9 - 7.5	1.5 - 9.7	1.5 - 9.7
Dehumidifying Capacity (l/h)	1.4	1.6	2.8	2.8	4.8	4.8

## Electrical

Power Supply	240 / 1	240/1	240/1	240/1	240/1	240/1
Phase / Hz	50	50	50	50	50	50
Power Attachment	OU	OU	OU	OU	OU	OU
Interconnecting Wires	2 + E, 1.5 mm	2 + E, 1.5 mm	2 + E, 1.5 mm	4 + E, 1.5 mm	4 + E, 1.5 mm	4 + E, 1.5 mm
Running Current (Cooling)	3.3	4.8	6.2	7.7	8.6	11.2
Running Current (Heating)	4.1	4.9	7.0	8.6	10.1	12.6
Recommended External Protection (Amps)	16	16	16	16	20	20

## Efficiency

Power Input kW (Cooling)	0.67	0.94	1.48	1.80	2.05	2.45
Power Input kW (Heating)	0.85	1.10	1.66	1.99	2.36	2.75
EER Cooling / COP Heating	3.73 / 4.00	3.72 / 4.09	3.38 / 3.67	3.33 / 3.52	3.41 / 3.52	3.27 / 3.27
Star Rating Cool / Heat	★★★★ / ★★★★★	★★★★ / ★★★★★	★★★ / ★★★★★	★★★ / ★★★★★	★★★ / ★★★★★	★★★ / ★★★★★
ENERGY STAR®	Yes	Yes	Yes	Yes	Yes	Yes

## Air flow

Fan Speeds	4	4	4	4	4	4
Air Flow (l/s) Hi / Med / Low / ExLow (Sleep)	142 / 119 / 103 / 92	167 / 135 / 111 / 102	227 / 173 / 117 / 87	250 / 183 / 133 / 121	292 / 242 / 167 / 142	350 / 242 / 225 / 203
Compressor Type	Rotary	Rotary	Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary

## Dimensions & weights

Dimensions IU (H x W x D mm)	280 / 780 / 220	280 / 780 / 220	295 / 1030 / 207	295 / 1030 / 207	333 / 1150 / 245	333 / 1150 / 245
Weight IU (kg)	9.5	9.5	11	11	16	16
Dimensions OU (H x W x D mm)	548 / 750 / 288	548 / 750 / 288	650 / 850 / 298	750 / 850 / 298	800 / 850 / 298	800 / 850 / 298
Weight OU (kg)	33	36	45	50	52	52

## Noise levels

Sound Pressure Level IU dB(A) (Hi / Med / Low / Sleep)	38 / 32 / 26 / 22	43 / 35 / 29 / 26	47 / 39 / 28 / 24	49 / 41 / 32 / 29	47 / 42 / 33 / 30	49 / 45 / 40 / 36
Sound Pressure Level OU (dB) Cool / Heat	46 / 49	46 / 49	50 / 52	50 / 51	51 / 53	55 / 55

## Installation

Refrigerant Type	R410A	R410A	R410A	R410A	R410A	R410A
Pipe Connection Sizes: Gas (mm) (in)	9.5 (3/8)	9.5 (3/8)	12.7 (1/2)	12.7 (1/2)	15.9 (5/8)	15.9 (5/8)
Pipe Connection Sizes: Liquid (mm) (in)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)
Max. Pipe Length (m) (min./max.)	3 / 20	3 / 20	3 / 30	3 / 30	3 / 30	3 / 30
Max. Height Difference (m)	10	10	10	20	20	20
Refrigerant Pipe Charge Length (m)	20	20	30	20	30	30
Pipe Connection Method	Flare	Flare	Flare	Flare	Flare	Flare

## Working range

Outdoor Operating Temp. (Cooling) °C db	43 to -10	43 to -10	46 to -10	46 to -10	46 to -10	46 to -10
Outdoor Operating Temp. (Heating) °C wb	21 to -15					

## Features

Nano Titanium Air Purifying Filter	Yes	Yes	Yes	Yes	Yes	Yes
Nano Titanium Pre-Filter	Optional	Optional	Yes	Yes	Yes	Yes
Anti Corrosion Fin (O/U Coil)	Transparent	Transparent	Green	Green	Green	Green
Indoor Fan – Anti-Bacterial Coating	Yes	Yes	Yes	Yes	Yes	Yes
Multi-Directional Air Flow	–	–	–	–	Yes	Yes
PAM Control	–	–	Yes	Yes	Yes	Yes
All DC Inverter Control Indoor/Outdoor	Yes	Yes	Yes	Yes	Yes	Yes
Weekly Timer SPX-WKT1	Optional	Optional	Optional	Optional	Optional	Optional
Weekly Timer Distributor SPX-DST1	Optional	Optional	Optional	Optional	Optional	Optional

NOTES: Cooling. Indoor: Rated at 27°C DB/19.0°C WB entering air; ambient: rated at 35°C DB. HEATING. Indoor: Rated at 20°C DB entering air; ambient: rated at 7°C DB/ 6°C WB. Mains power source AC 240V 50Hz. All models have earned the ENERGY STAR® mark for leading energy efficiency.



# Hitachi Floor Mounted Heat Pumps



*New Zealand's most elegant floor model. If you'd prefer your indoor unit installed at floor level Hitachi has the model for you.*

## Elegance in Design

We know comfort isn't just about having a warm room, it's also about loving the room you're in. That's why the new floor mounted heat pumps are designed with overall ambience in mind. Our simple yet elegant design has a finely honed curve giving it a slimming look. The stand and body are visually separate and with differing finishes on the front frame and cabinet enhancing its compactness will look at home in any room.



# A Breath of Fresh Air



## Pre-Filter

The pre-filter which covers the entire air inlet to stop dust and other particles from entering.

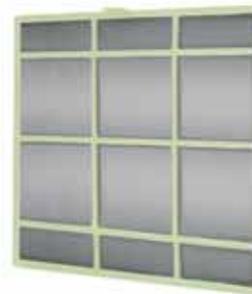


## Nano Titanium Air Purifying Filter

### Shuts out germs, bacteria and allergens.

Nano Titanium particles are minute particles that catch and neutralize bacteria, mould and odour molecules which are approximately 1,000 times larger.

The Air Purifying Filter uses both these incredibly small nano titanium particles and anti-bacterial Silver Agents to trap and eliminate microbes as well as neutralise allergens and remove harmful substances such as formaldehyde.



## Deactivation Effect

### Sample: Escherichia coli.

Bacteria (sample Escherichia coli) is deactivated by 99% in 24 hours.

(Tested by SIRIM QAS International Sdn, Bhd. Report No: 2004KLO100).

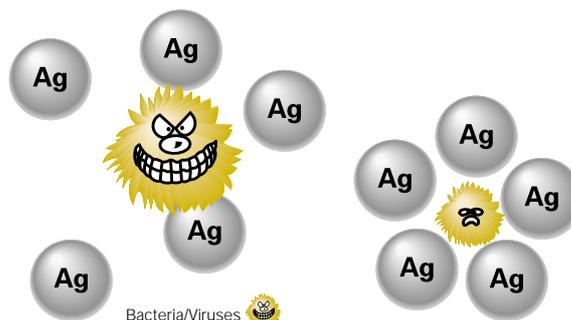


## Silver Action

### Silver Agents.

Silver agents are also included in the air purifying filter to efficiently catch and deactivate bacteria.

Using the action of the nano titanium catalyst which is 1/200 the size of regular antibacterial and silver agents, microbes are captured and effectively neutralised to provide a powerful deodorising effect.



# Total Hitachi Comfort

## Fuzzy Logic Control

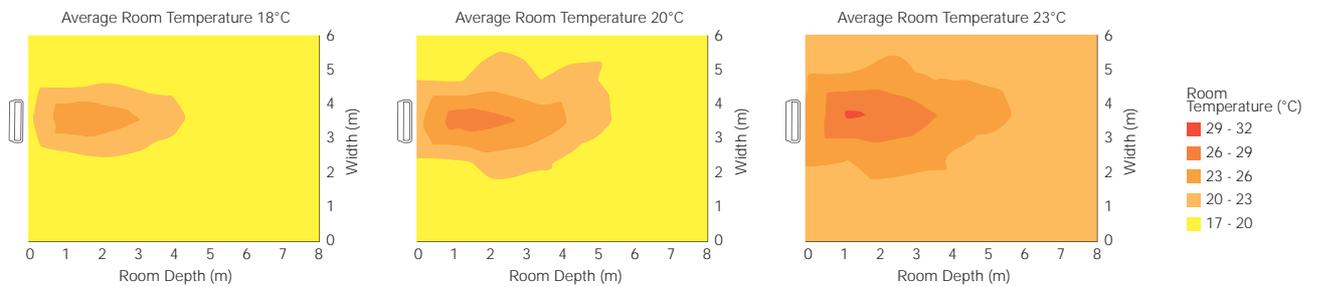
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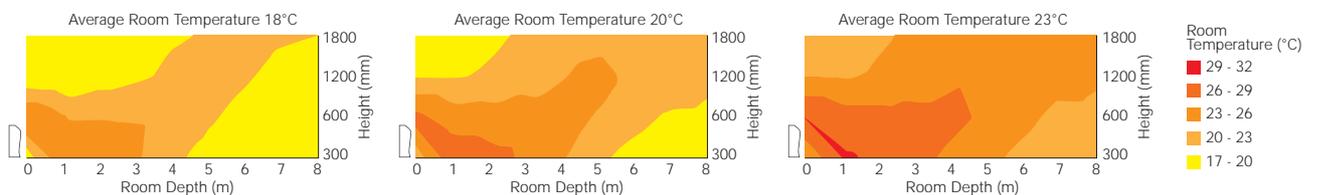
## Even Heating

Hitachi floor consoles are designed to efficiently heat your room creating an even temperature throughout.

Heating Operation at 300mm from floor - plane view



Heating Operation within room - side view



## Low Starting Current and Auto Restart

Hitachi DC Inverter technology uses a low starting current, to minimise power usage at start up. For convenience, Hitachi heat pumps are able to memorise the precise operation mode, air flow, temperature and timing settings. If there is a power cut, settings will automatically reset to the original operating mode once power is restored.

## Outdoor Durability

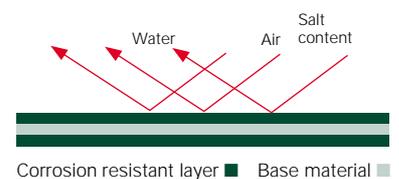
With its special anti-corrosion "transparent" coating, the Fin Condenser lasts up to three times as long as standard types. This coating on the outdoor heat exchanger assures better performance and improves durability even in tough conditions such as those in coastal areas.

## Hitachi Floor Mount – STAR RATINGS

RAF-35NXA1 – 3.5/4.2kW



RAF-50NXA1 – 5.0/6.0kW



# Inverter Split System Reverse Cycle



Note: Features and technical specifications indicative only

Model: Indoor Unit - Floor Mount Model: Outdoor Unit	RAF-35NXA1 RAC-35NXA1	RAF-50NXA1 RAC-50NXA1
<b>Capacity</b>		
Cooling Capacity (kW)	3.5	5.0
Range (kW)	1.1 - 4.2	1.1 - 5.2
Sensible Cooling (kW)	3.14	3.78
Heating Capacity (kW)	4.2	6.0
Range (kW)	1.1 - 5.2	2.2 - 7.3
Dehumidifying Capacity (l/h)	1.6	2.0
<b>Electrical</b>		
Power Supply	240/1	240/1
Phase / Hz	50	50
Power Attachment	OU	OU
Interconnecting Wires	2C + E, 1.5 mm	2C + E, 1.5 mm
Running Current (Cooling)	4.8	6.2
Running Current (Heating)	4.9	7.0
Recommended External Protection (Amps)	16	16
<b>Efficiency</b>		
Power Input kW (Cooling)	0.94	1.51
Power Input kW (Heating)	1.05	1.66
EER Cooling / COP Heating	3.72 / 4.00	3.31 / 3.61
Star Rating Cool / Heat	★★★ / ★★★	★★ / ★★★
ENERGY STAR®	Yes	Yes
<b>Air flow</b>		
Fan Speeds	4	4
Air Flow (l/s) Hi / Med / Low / ExLow (Sleep)	167 / 138 / 111 / 92	180 / 147 / 120 / 103
Compressor Type	Rotary	Rotary
<b>Dimensions &amp; weights</b>		
Dimensions IU (H x W x D mm)	600 / 760 / 235	600 / 760 / 235
Weight IU (kg)	14	14
Dimensions OU (H x W x D mm)	548 / 750 / 288	600 / 792 / 299
Weight OU (kg)	36	40
<b>Noise levels</b>		
Sound Pressure Level IU dB(A) (Hi / Med / Low / Sleep)	42 / 35 / 29 / 25	46 / 37 / 30 / 25
Sound Pressure Level OU (dB) Cool / Heat	47 / 49	52 / 52
<b>Installation</b>		
Refrigerant Type	R410A	R410A
Pipe Connection Sizes: Gas (mm) (in)	9.5 (3/8)	12.7 (1/2)
Pipe Connection Sizes: Liquid (mm) (in)	6.35 (1/4)	6.35 (1/4)
Max. Pipe Length (m) (min./max.)	3 / 20	3 / 20
Max. Height Difference (m)	10	10
Refrigerant Pipe Charge Length (m)	20	20
Pipe Connection Method	Flare	Flare
<b>Working range</b>		
Outdoor Operating Temp. (Cooling) °C db	43 to -10	43 to -10
Outdoor Operating Temp. (Heating) °C wb	21 to -15	21 to -15
<b>Features</b>		
Nano Titanium Air Purifying Filter	Yes	Yes
Anti Corrosion Fin (O/U Coil)	Transparent	Transparent
Indoor Fan – Anti-Bacterial Coating	Yes	Yes
Directional Air Flow	Yes	Yes
PAM Control	–	Yes
All DC Inverter Control Indoor/Outdoor	Yes	Yes
Weekly Timer SPX-WKT1	Optional	Optional
Weekly Timer Distributor SPX-DST1	Optional	Optional

NOTES: Cooling. Indoor: Rated at 27°C DB/19.0°C WB entering air; ambient: rated at 35°C DB. HEATING. Indoor: Rated at 20°C DB entering air; ambient: rated at 7°C DB/ 6°C WB. Mains power source AC 240V 50Hz. All models have earned the ENERGY STAR® mark for leading energy efficiency.



# Another Hitachi Day



## It's more than just air conditioning, it's a way of life.

Installers specialising in Hitachi air conditioning systems, offer expert advice and installation, backed by Hitachi's more than 35 years global experience and their reputation for quality, reliability and industry-leading technology. Hitachi deals with suppliers who have ISO9000 Certification. Components are stringently tested to match Hitachi's quality policy, ensuring flawless operation, year after year.

## Energy Star



This logo is awarded to appliances that are among the most energy efficient on the market in their class at the time of testing. Only Energy Star models can qualify for a heat pump subsidy under EECA's 'Warm Up NZ' campaign.

(Refer pages 10 and 14 Specification tables).

## Inverter Split Systems 6 Year Warranty



The six year warranty on parts and labour is your guarantee of the finest quality and customer support.\*



\*6 years parts and labour. 3 years on high usage applications, e.g. computer server rooms.

Terms and conditions apply to all warranties. DC Inverter systems are designed for efficiency and are compliant to MEPS II standards. Specifications are subject to change with product improvement and without notification. Specification details provided in this brochure are indicative only. Please refer to the Hitachi Design and Installation manuals for all technical information.

RAS-70YHA3, RAS-80YHA3



RAS-50YHA3, RAS-60YHA3



RAS-25YHA3, RAS-35YHA4



RAF-35NXA1, RAF-50NXA1



### Peace of Mind

Temperzone Ltd distributes Hitachi heat pumps throughout New Zealand.

Hitachi heat pumps from temperzone have a 6 year warranty on parts and labour.

It's a comfort to know that this warranty is backed by Temperzone Ltd, the largest air conditioning manufacturer and exporter in Australasia: founded, owned and operated by New Zealanders since 1956.

### Easy Installation

Your temperature problems can be solved in a matter of hours. Call us today for your no obligation on site inspection and quote.



Six year warranty



Energy Efficient



Quiet and Discreet



Convenient comfort control



*'Hitachi ticks all the boxes'*

Your local Hitachi dealer: