Cooling Capacity
5.0kW - 16.0kW

Heating Capacity
5.6kW - 18.0kW

HITACHI

Utopia Premium Inverter Air Conditioning

Giving you complete control

temperzone
QUALITY AIR CONDITIONING

PLUM
Heating & Cooling

Hitachi and Temperzone:

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

Delivering big results for small spaces

When residential or commercial spaces are limited, there's only one climate control solution that truly offers the power to customise energy usage.

Incorporating the transformative power of DC technology, Hitachi's Utopia range is the only player in its class that offers **stepless inverter control** and the ability to achieve superior operating efficiency.

Ranging in capacity from 5kW to 16kW* and available in **one-to-one split** and **multi-head** options, Utopia delivers the level of comfort, convenience, and reliability that you've come to expect from Hitachi.

The flexibility of a Hitachi one-to-one split

Featuring a lightweight, compact design, Hitachi Utopia's one-to-one split is the ideal option when installation spaces are tight and challenging.

Offering great flexibility when negotiating **constrained or limited ceiling cavities**, it offers a simple yet highly effective air conditioning solution for houses, units, or offices.

Thanks to a **unique condenser fan design, outdoor noise levels are also extremely low**, making them an ideal choice for use in highly built-up areas. They also feature a unique heat exchanger fan design that **increases the unit's heating capacity in cold conditions**.

* Contact Temperzone

The versatility of our multi-head option

Hitachi Utopia's multi-head option makes it possible to set different rooms at different temperatures using just one outdoor unit.

Utilising a series of indoor outlets, the system lets you heat or cool only those spaces that are occupied, thereby enabling further energy use customisation and cost savings.

Offering a high degree of versatility, the indoor component can take the form of a low-height compact cassette or a wall-mounted split unit. Featuring a motion sensor that enables climate control functions to be deactivated if a room becomes unoccupied, the cassette unit also incorporates an internal drain pump and exclusive anti-bacterial agent that eliminates problems that typically arise from water accumulation in drain tray coils.

Other benefits:

- A stylish remote control that's easy to use and comfortable to hold.
- The ability to control multiple units from one location.
- BMS compatibility.
- Low noise levels.
- Easy to install.
- Easy to commission.

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 Australia and New Zealand 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.

Technological advancements

Stylish Remote Controllers

A fully-programmable 7-day timer offers the ability to switch all units on and off automatically to conserve power when rooms are unoccupied.

Units are able to accept external control inputs such as **remote stop/start**, fire alarm, and external thermostat. System outputs including fault conditions, mode (heat/cool), and thermostat on are also available.

See figure 1

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 figures 2-3

Fig 1

PC-ARF
Wall Controller

Green light indicator for ON

Fig 2

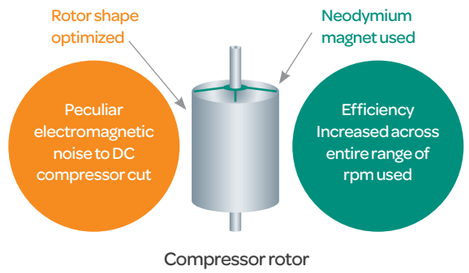
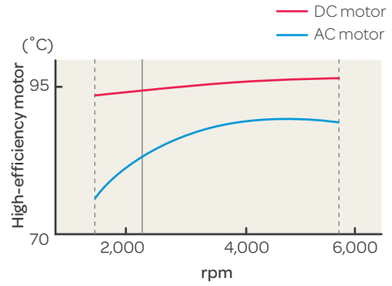


Fig 3



Technological advancements

Installation and Flexibility

Changing the way we think about twin, triple and quad split configurations, the IVX is the perfect choice for installations requiring individual unit control. Facilitation and installation flexibility are further achieved due to the outdoor unit's lightweight, compact design.

See figures 4-5

IVX Series (HP)	2	2.5	3	4	5	6
IVX Series (Nom kW)	5.0	5.6	7.1	10.0	12.5	13.0
Max Line Length	50	50	50	70	75	75
Pre Charged Length	30	30	20	20	30	30
Vertical Separation	30 / 20					
Outdoor Unit Higher / Lower	30 / 20					

Fig 4

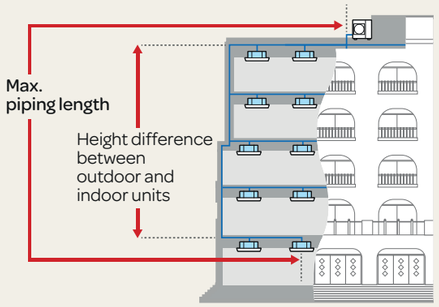
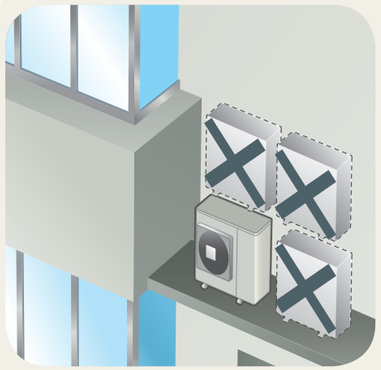


Fig 5



Slitless Fin Heating Performance

The revolutionary heat exchange design featuring slitless fin surface improves water removal, thereby leading to improved frosting and heating performance under low heating temperature conditions.

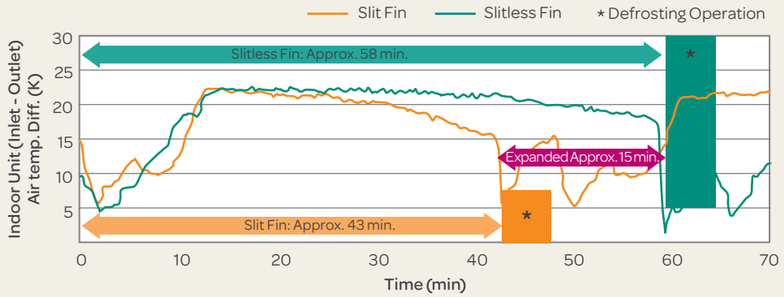
See figure 8

Compact and Light

Effective design and downsizing has led to a **40% reduction in the footprint** of the Utopia IVX/range compared with previous models. This has made installation easier and improved maintenance access.

See figure 9

Fig 8

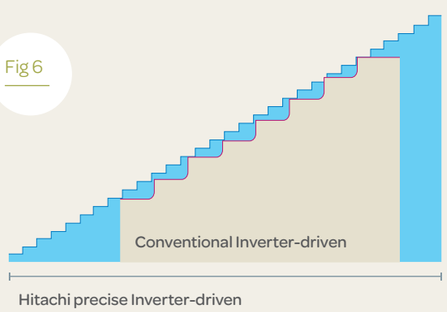


Precise Inverter Control

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 6

Fig 6



Quiet Operation - Super High-Stream Fan

Advancements in the blade design and optimisation of the inlet and outlet angles have led to a 9% increase in efficiency while still maintaining low operating noise levels.

See figure 7

Fig 7

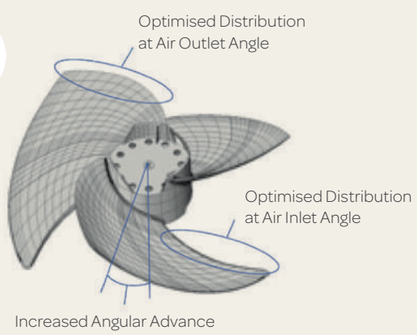
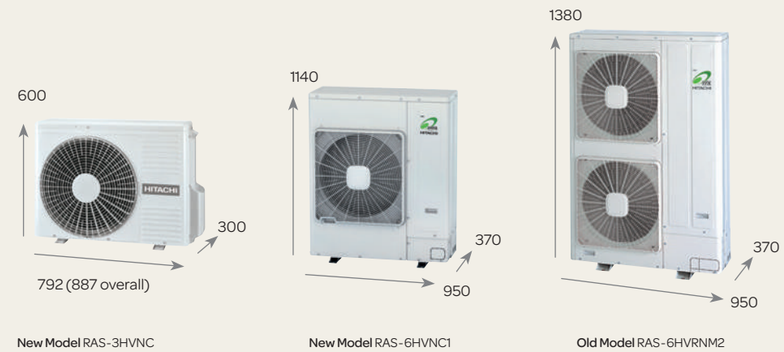


Fig 9



New Model RAS-3HVNC

New Model RAS-6HVNC1

Old Model RAS-6HVRNM2

Demand Control Technology

Already highly efficient, Hitachi Premium Inverter models offer two additional ways to configure systems to achieve even greater energy savings.

Self-Demand Control

Power consumption levels (as a percentage of the maximum) can be selected in advance. Following an external command during operation, the system will automatically detect the amount of power being used and limit itself to the predetermined amount during peak power usage periods.

See figure 10

Wave Mode

When activated by an external command, this function cycles the system between full-power and a pre-selected reduced power setting every 10 to 20-minutes until the command is cancelled. Wave Mode results in lower average power usage and cost savings.

See figure 11

Fresh Air

Both the cassettes and the ducted units are designed to accept external air and mix it with conditioned air to ensure that there's always a percentage of fresh air supplied to a conditioned space.

Duct EZY

Duct EZY eliminates the need for an expensive, customised ducted network design by providing a pre-created package complete with a specifically engineered duct kit to ensure optimum performance.

Duct kits include; round supply diffusers (3 in an 8.0kW package, 4 in an 11.2kW package), the option of either a single return grille (ideal for limited access and retrofits) or dual return grills (ideal for new builds and suspended ceilings), plenums and the correct amount of ducting for the system (expansion kits are available to allow for longer duct lengths).

Available only in New Zealand.

Fig 10

Self-Demand Control

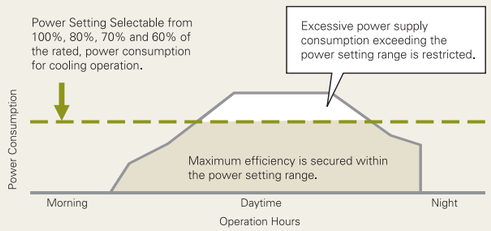
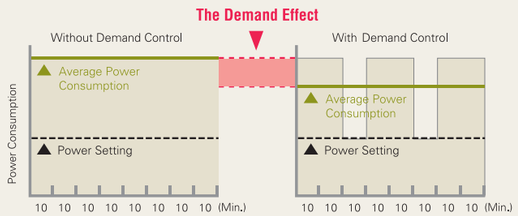
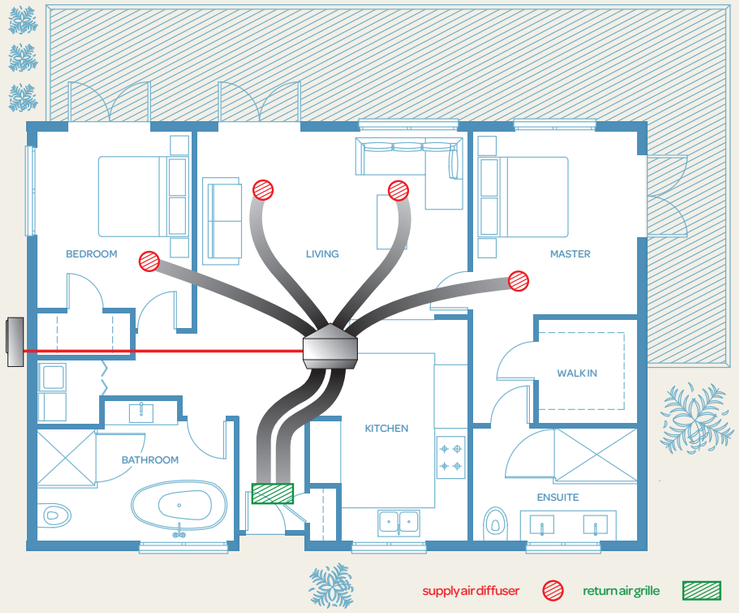


Fig 11

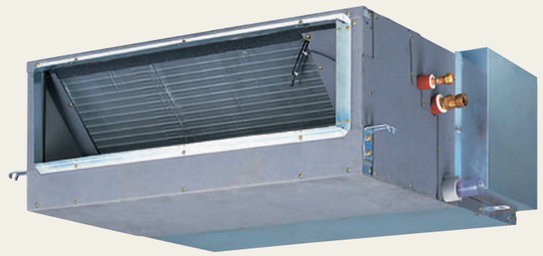
Wave Mode (DRED)





Ducted System (RPI)

Hitachi ducted systems can be combined with ducting, grilles, and accessories to provide superior filtration and effective clean air distribution.



Key Features

1. Space Saving Design

With a height of 350mm, this unit can be installed in the false ceiling of almost any house or building. (RPI-3.0-6.0FSN2SQ).

See figure 12

2. Easy Installation and Maintenance

Separable design unit for easier installation in limited roof space. (RPI-3.0-6.0FSN2SQ).

See figure 13

3. Quiet Operation

The well-balanced centrifugal fan provides quiet and efficient operation.

Fig 12

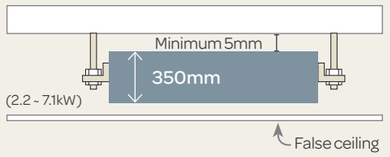
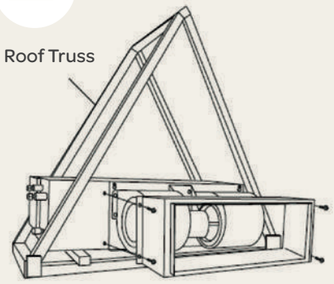
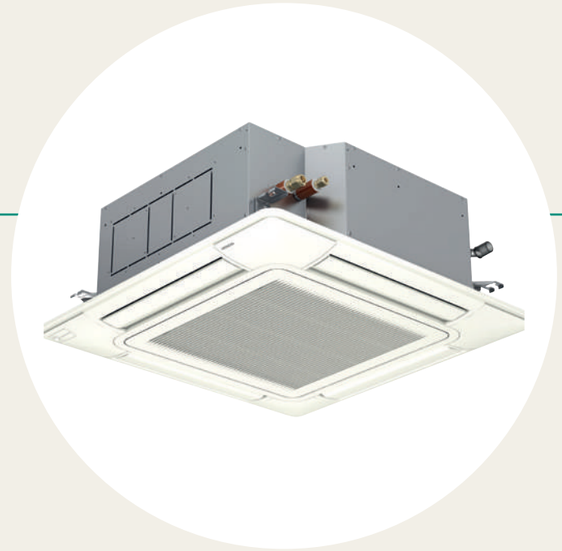


Fig 13



4-Way Cassette (RCI)



Four-way airflow cassettes (concealed within ceiling cavities) are an economical and effective way of air conditioning open areas with high occupancy or traffic, such as shops, walkways, and restaurants. The cassette system does not require specialised duct design and manufacture.

Key Features:

Motion Sensor

Designed to detect the amount of human activity within a particular space, the motion sensor is an integral component of the optional energy-saving technology. It maintains a comfortable indoor environment by automatically adjusting the airflow volume, direction and temperature according to the amount of activity. Savings can be further improved with individual operating function. In addition, operation can also be ceased automatically if a space remains unoccupied for more than 30-minutes.

See figure 14-15

New Antibacterial Agent

An internal low-voltage drain pump (850mm lift) removes accumulated condensate from the drain pan, even during unit operation. A float switch monitors the water level and automatically activates the pump as necessary. A silver-ion antibacterial agent inhibits slime build-up, while a larger 22mm drain diameter assists in more efficient drainage.

See figure 16

Silky Flow Louver

The new structured silky flow louver is designed to reduce the discomfort caused by temperature irregularity and cold drafts. Individual control setting for each louver is available.

See figure 17

One-Touch Panel

The unit has an easy one-touch panel so that the filter can be removed for cleaning.

See figure 18

Fig 14

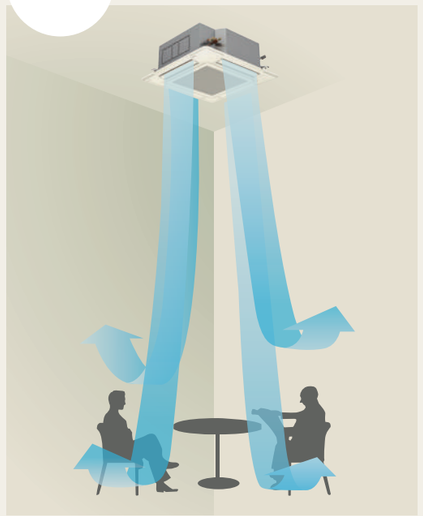


Fig 15

Supported Ceiling height
(in the case of 4 airflow direction)

Type	Air flow volume mode	1 to 3HP	4 and 5HP
Standard (OD)	High	2.7m	3.2m
High Speed Mode (C5)	High 2	3.5m	4.2m

Fig 16

Fig 17

Fig 18

Compact 4-Way Cassette (RCIM)

With a height of only 295mm, these cassettes are some of the smallest on the market. At 570mm x 570mm, they are designed to easily fit within a 600mm ceiling grid.

High Ceiling Applications

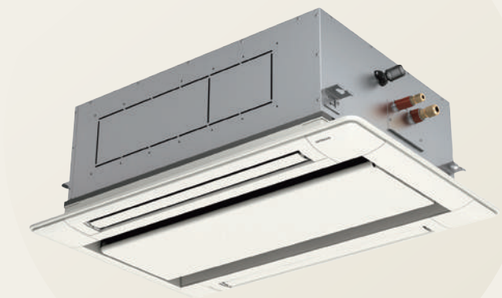
These models are designed for high ceiling applications of up to 3.5-metres.

Efficient Drain Pump

Equipped with an automatic drain pump, compact cassettes can lift water from the condensate drain pan up to 600mm.

2-Way Cassette (RCD)

Featuring a new air panel and low-profile design, the RCD 2-way cassette produces very little noise. It's suitable for installation in wide walkways and locations best suited to a two-way air supply.



Easy to Install

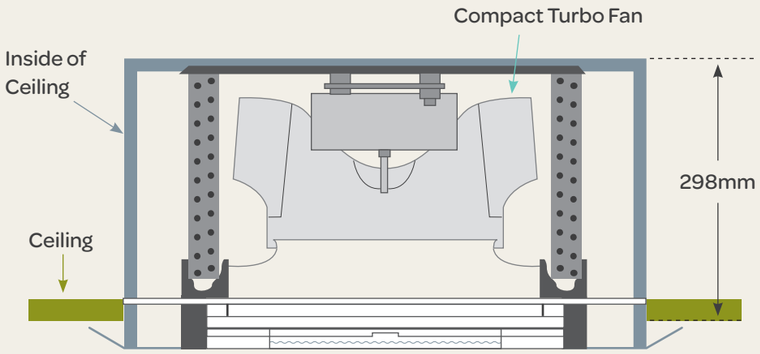
A compact turbo fan design enables unit height to be reduced to 298mm, allowing for easy installation in most confined ceiling spaces.

Quiet Operation

The compact turbo fan's three-dimensional twisted wings improve wind flow efficiency by 20%, resulting in significant noise reduction.

More Compact Unit

Providing even greater installation flexibility, the 8.0kW unit has nearly halved in volume while also being 30kg lighter and 460mm shorter.



Wall Mounted (RPK)

Stylish Design

This range of wall-mounted indoor units is designed to suit contemporary spaces. The stylish flat front panel is inconspicuous and allows for easy maintenance.

Wireless or Wired Control

Commonly supplied with a wired wall controller, a simple dip switch change on the receiver allows for the use of a wireless controller.

Compact Model

The overall size of this model has been reduced by up to 25%, enabling greater installation flexibility.

Underceiling (RPC)

This unit is commonly installed in locations such as clubs, pubs, and cafeterias. It's also ideal for retrofitting or for use in buildings with limited ceiling voids.

Automatic Swing Louver

Working in conjunction with a highly-efficient, multi-blade centrifugal fan, the automatic swing louver generates a powerful yet gentle airflow that's evenly distributed throughout the room. This ensures a high degree of user comfort and extremely quiet operation.

Noise Reduction

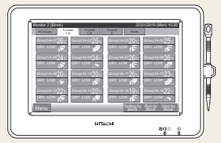
With reduced airflow resistance enabling better efficiency at lower fan speeds, noise levels and vibration have been reduced.

Motion Sensor Control

Motion sensor option is available to eliminate unnecessary operation and increase efficiency.

Controllers

PC-ARF
Wall Controller



Central Station EZ

Mini CS

PC-ARH Half Sized
Wall Controller

PC-LH3A
Wireless Controller

PC-ARF Wall Controller

- Standard wall controller supplied.
- Large screen and simplified button layout.
- Controls temp., mode, fan speed, etc.
- 7-day timer with multiple set points.
- Up to 16 units can be operated with one controller.
- Room name and service company name programmable.
- Help menus and error code diagnosis.

PC-LH3A Wireless Controller.

- Standard infrared controller.
- Controls temp, mode, fan speed, etc.
- On/Off countdown timers.
- Multiple units can be operated with one controller.
- Requires receiver to be added to indoor unit.
- Not applicable to all models.

Central Station EZ

- Touch screen with easy user interface.
- Controls up to 64 groups of units (max. 160 indoors).
- Controls temp., mode, fan speed, etc. for all units individually.
- Records accumulated operation time for simple tenant billing.
- External input and output contacts.
- Set up to 10 on/off times per-day.
- Colour coded graphics for quick reference.

PC-ARH Half Sized Wall Controller

- Small size for discreet applications.
- Simplified functions include temp, mode and fan speed.
- Operates 1 to 16 indoor units (same settings).
- Error code diagnosis.

Mini CS

- Touch screen with easy user interface
- Controls up to 32 groups (max 160 indoor units)
- Controls temperature, mode, fan and speed for all units individually
- Records weekly scheduling, accumulated run hours etc
- External Run and Alarm Output
- Set up to 10 on/off times per day

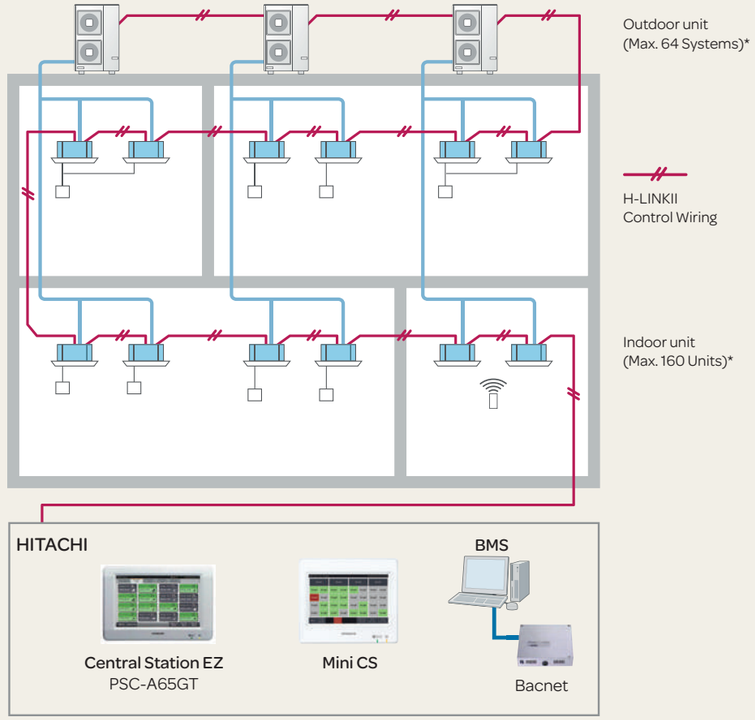
Colour coded graphics for quick reference.

Multi-Head Systems Connection Options. H-Link

H-Link II is a unique Hitachi communication system that can control multiple outdoor and indoor units from one location.

It simplifies commissioning and service maintenance for installers and service engineers, and enables owners and occupiers to enjoy better system management through the ability to connect various types of central control options.

Hitachi VRF, split systems, chillers and even wall mounts (via an interface card) can be connected to H-Link II.



* This example shows multiple indoor / outdoor units and local controller types connected on the same H-Link system, with a choice of central controller.

Ducted Type (One-to-One) Comparison Chart - RPI

Model							
Indoor	RPI-2.0FSN2	RPI-2.5FSN2	RPI-3.0FSN2SQ	RPI-4.0FSN2SQ	RPI-5.0FSN2SQ	RPI-6.0FSN2SQ	RPI-7.0FSN2SQ
Outdoor	RAS-2HVNP	RAS-2.5HVNP	RAS-3HVNC	RAS-4HVNC1	RAS-5HVNC1	RAS-6HVNC1	RAS-7HVRNM2
Capacity (kW)							
Cooling Capacity	5.0	5.6	7.1	10.0	12.5	13.0	16.0
Cooling Capacity Range	2.5 - 5.6	2.2 - 6.3	3.2 - 8.0	4.5 - 11.2	5.7 - 14.0	6.0 - 16.0	6.0 - 18.0
Heating Capacity	5.6	6.3	8.0	11.2	14.0	16.0	18.0
Heating Capacity Range	2.2 - 7.1	2.2 - 8.0	3.5 - 9.0	5.0 - 14.0	5.0 - 18.0	5.0 - 20.0	5.0 - 20.0
Energy Efficiency							
EER / AEER	3.36 / 3.16	3.50 / 3.18	3.29 / 2.97	3.92 / 3.45	3.40 / 3.01	3.27 / 2.96	3.36 / 3.35
COP / ACOP	3.61 / 3.55	3.82 / 3.57	3.45 / 3.38	4.53 / 4.02	4.35 / 3.78	4.21 / 3.68	4.21 / 3.75
Air Flow							
Air Flow l/s(Hi / Med / Low)	250 / 216 / 183	267 / 233 / 200	483 / 433 / 333	600 / 550 / 416	783 / 716 / 566	933 / 833 / 666	1083 / 950 / 766
Max External Static Pa	80	80	120	120	120	120	140
Dimensions							
Indoor Unit: (H x W x D mm)	270 x 975 x 720	270 x 975 x 720	350 x 1076 x 800	350 x 1076 x 800	350 x 1300 x 800	350 x 1300 x 800	440 x 1430 x 550
Outdoor: (H x W x D mm)	600 x 792 x 300	600 x 792 x 300	600 x 792 x 300	1140 x 950 x 370	1140 x 950 x 370	1140 x 950 x 370	1380 x 950 x 370
Indoor Unit Separable	No	No	Yes	Yes	Yes	Yes	No
Weights: Indoor kg / Outdoor kg	35 / 41	35 / 41	52 / 44	57 / 79	61 / 89	63 / 89	75 / 104
Sound Pressure Level (dB(a))							
Indoor Unit (Hi / Med / Low)	35 / 33 / 31	36 / 34 / 32	46 / 44 / 40	48 / 45 / 41	49 / 46 / 43	53 / 49 / 45	51 / 47 / 42
Outdoor Unit (Cool / Heat / Night)	44 / 46 / 42	45 / 47 / 43	48 / 50 / 46	52 / 54 / 50	52 / 54 / 50	55 / 57 / 53	49 / 53 / 46
Working Range (°C db)							
Cooling	-5° / 46°C				-5° / 46°C		
Heating	-20° / 15°C				-20° / 15°C		
Piping							
Pipe Connection Sizes Liquid Ømm / Gas Ømm	6.35 / 12.70	6.35 / 12.70	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88
Max Pipe Length (m)	50	50	50	70	75	75	75
Max Pre Charged Length (m)	30	30	20	30	30	30	30
Max Pipe Lift (m) (Outdoor Above / Outdoor Below)	30 / 20				30 / 20		
Air Spigot Dimensions							
Supply Air Spigot (W x H mm)	803 x 220	803 x 220	980 x 220	980 x 220	1205 x 220	1205 x 220	830 x 300
Return Air Spigot (W x H mm)	833 x 226	833 x 226	813 x 306	813 x 306	813 x 306	935 x 306	1288 x 402
Electrical							
Power Supply	AC 1 Ph 220 - 240V 50Hz				AC 1 Ph 220 - 240V 50Hz		
Outdoor Unit Max Current	12	14	16	26	26	26	32
Interconnection Wires mains	0.75mm² 2C + E (min)				0.75mm² 2C + E (min)		
Interconnection Wires comms	Twisted Pair Cable with Shield - 0.75mm² min				Twisted Pair Cable with Shield - 0.75mm² min		

NOTES:

The nominal cooling and heating capacity is the combined capacity of the Hitachi standard split system, and is based on the JIS standard B8616. Cooling Operation Conditions: Indoor Air Inlet Temperature: 27˚C DB, 19.0˚C WB; Outdoor Air Inlet Temperature: 35˚C DB. Heating Operation Conditions: Indoor Air Inlet Temperature: 20˚C DB; Outdoor Air Inlet Temperature: 7˚C DB, 6˚C WB. Published capacities based on Piping Length: 7.5 metres. The sound pressure level is based on following conditions: 1.5 metres beneath the unit with discharge duct (2.0m) and return duct (1.0m). Outdoor Units: 1 metre from the unit service cover surface, and 1.5 metres from floor level. Voltage of the power source for the indoor fan motor is 220V. In case of the power source of 240V, the sound pressure level increases by about 1 or 2dB. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

Cassette type (One-to-One)
Comparison Chart - RCI

Model						
Indoor	RCI-2.0FSN3	RCI-2.5FSN3	RCI-3.0FSN3	RCI-4.0FSN3	RCI-5.0FSN3	RCI-6.0FSN3
Outdoor	RAS-2HVNP	RAS-2.5HVNP	RAS-3HVNC	RAS-4HVNC1	RAS-5HVNC1	RAS-6HVNC1
Capacity (kW)						
Cooling Capacity	5.0	5.6	7.1	10.0	12.5	13.0
Cooling Capacity Range	2.5 - 5.6	2.2 - 6.3	3.2 - 8.0	4.5 - 11.2	5.7 - 14.0	6.0 - 16.0
Heating Capacity	5.6	6.3	8.0	11.2	14.0	16.0
Heating Capacity Range	2.2 - 7.1	2.2 - 8.0	3.5 - 9.0	5.0 - 14.0	5.0 - 18.0	5.0 - 20.0
Energy Efficiency						
EER / AEER	4.03 / 3.91	3.97 / 3.60	3.41 / 3.33	3.64 / 3.55	3.37 / 3.12	3.26 / 3.00
COP / ACOP	4.68 / 4.16	4.92 / 4.51	3.69 / 3.52	4.57 / 4.25	3.89 / 3.63	3.56 / 3.44
Air Flow (l/sec)						
UHi / Hi / Med / Low	350 / 283 / 233 / 183	450 / 383 / 300 / 233	450 / 383 / 300 / 233	617 / 517 / 400 / 333	617 / 550 / 443 / 350	617 / 583 / 467 / 367
Dimensions						
Indoor Unit: (H x W x D mm)	248 x 840 x 840	248 x 840 x 840	298 x 840 x 840	298 x 840 x 840	298 x 840 x 840	298 x 840 x 840
Outdoor: (H x W x D mm)	600 x 792 x 300	600 x 792 x 300	600 x 792 x 300	1140 x 950 x 370	1140 x 950 x 370	1140 x 950 x 370
Weights: Indoor kg / Outdoor kg	21 / 41	22 / 41	26 / 44	26 / 79	26 / 89	26 / 89
Sound Pressure Level (dB(A))						
Indoor Unit (UHi / Hi / Med / Low)	37 / 32 / 30 / 27	42 / 36 / 32 / 28	42 / 36 / 32 / 28	48 / 43 / 39 / 33	48 / 45 / 40 / 35	48 / 46 / 41 / 37
Outdoor Unit (Cool / Heat / Night)	44 / 46 / 42	45 / 47 / 43	48 / 50 / 46	52 / 54 / 50	52 / 54 / 50	55 / 57 / 53
Working Range (°C db)						
Cooling	-5° / 46°C			-5° / 46°C		
Heating	-20° / 15°C			-20° / 15°C		
Fascia Panel Model	P-AP160NA1 (Std - Exc Motion Sensor) / P-AP160NAE (Optional - Inc Motion Sensor)			P-AP160NA1 (Std - Exc Motion Sensor) / P-AP160NAE (Optional - Inc Motion Sensor)		
Wired Controller (Standard)	PC-ARF			PC-ARF		
Infrared Controller / Receiver (Optional)	PC-LH3B / PC-ALH3			PC-LH3B / PC-ALH3		
3 Way Outlet kit (Optional)	PI-160LS1			PI-160LS1		
Fresh Air Inlet (Optional)	PD-75A			PD-75A		
Remote Input / Output Plug (Optional)	PCC-1A			PCC-1A		
Piping						
Pipe Connection Sizes : Liquid Ømm / Gas Ømm	6.35 / 12.70	6.35 / 12.70	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88
Max Pipe Length (m)	50	50	50	70	75	75
Max Pre Charged Length (m)	30	30	20	30	30	30
Max Pipe Lift (m) (Outdoor Above / Outdoor Below)	30 / 20			30 / 20		
Electrical						
Power Supply	AC 1 Ph 220 - 240V 50Hz			AC 1 Ph 220 - 240V 50Hz		
Outdoor Unit Max Current	12	14	16	26	26	26
Interconnection Wires mains	0.75mm² 2C + E (min)			0.75mm² 2C + E (min)		
Interconnection Wires comms	Twisted Pair Cable with Shield - 0.75mm² min			Twisted Pair Cable with Shield - 0.75mm² min		

NOTES:
The nominal cooling and heating capacity is the combined capacity of the Hitachi standard split system, and is based on the JIS standard B8616. Cooling Operation Conditions: Indoor Air Inlet Temperature: 27˚C DB, 19.0˚C WB; Outdoor Air Inlet Temperature: 35˚C DB. Heating Operation Conditions: Indoor Air Inlet Temperature: 20˚C DB; Outdoor Air Inlet Temperature: 7˚C DB, 6˚C WB. Published capacities based on Piping Length: 7.5 metres. The sound pressure level is based on following conditions: 1.5 metres beneath the unit. Outdoor Units: 1 metre from the unit service cover surface, and 1.5 metres from floor level. Voltage of the power source for the indoor fan motor is 220V. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

Wall Mounted
Comparison Chart - RPK Series

Model	RPK-1.0SNSM3	RPK-1.5SNSM3	RPK-2.0SNSM3	RPK-2.5SNSM3	RPK-3.0SNSM3	RPK-4.0SNSM3
Capacity (kW)						
Nominal Cooling Capacity	2.8	4.0	5.6	7.1	8.0	11.2
Nominal Heating Capacity	3.2	4.8	6.3	8.5	9.0	12.5
Air Flow (l/sec)						
UHi / Hi / Med / Low	167 / 133 / 117 / 108	233 / 183 / 150 / 125	250 / 233 / 217 / 167	317 / 283 / 233 / 200	317 / 283 / 233 / 200	367 / 317 / 283 / 250
Dimensions						
Dimensions (H x W x D mm)	300 x 790 x 230	300 x 900 x 230	333 x 1150 x 245	333 x 1150 x 245	333 x 1150 x 245	333 x 1150 x 245
Weight (kg)	10	11	17	18	18	18
Colour	White					
Sound Pressure Level (dB(A))						
UHi / Hi / Med / Low	39 / 35 / 32 / 30	46 / 40 / 36 / 33	42 / 40 / 38 / 33	49 / 43 / 40 / 36	49 / 43 / 40 / 36	51 / 49 / 46 / 41
Power Supply						
	AC 1Ph 220 - 240V 50Hz					
Installation						
Connections	Flare Nut Connection					
Pipe Connection Sizes: Liquid Ømm / Gas Ømm	6.35 / 12.7	6.35 / 12.7	6.35 / 15.88	6.35 / 15.88	6.35 / 15.88	6.35 / 15.88

NOTES:

The nominal cooling and heating capacity is the combined capacity of the Hitachi standard split system, and is based on the JIS standard B8616. Cooling Operation Conditions: Indoor Air Inlet Temperature: 27˚C DB, 19.0˚C WB; Outdoor Air Inlet Temperature: 35˚C DB. Heating Operation Conditions: Indoor Air Inlet Temperature: 20˚C DB; Outdoor Air Inlet Temperature: 7˚C DB, 6˚C WB. Published capacities based on Piping Length: 7.5 metres, Piping Lift: 0 metres. 2. The sound pressure level is based on following conditions: 1.5 metres beneath the unit and 1 metre from the Inlet grille. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

Combination
Multi Head options

Example: Twin/Triple - Individual operation for two to three units

Example: Quadruple - Grouped operation for two by two units

Multi Head options

Model: Outdoor Unit	RAS22HVNP	RAS-2.5HVNP	RAS-3HVNC	RAS-4HVNC	RAS-5HVNC	RAS-6HVNC
Capacity (kW)						
Nominal Cooling Capacity	5.0 (2.2 - 5.6)	5.6 (2.2 - 6.3)	7.1 (3.2 - 8.0)	10.0 (4.5 - 11.2)	12.5 (5.7 - 14.0)	13.0 (6.0 - 16.0)
Nominal Heating Capacity	5.6 (2.2 - 7.1)	6.3 (2.2 - 8.0)	8.0 (3.5 - 9.0)	11.2 (5.0 - 14.0)	14.0 (5.0 - 18.0)	16.0 (5.0 - 20.0)
Multi Head Connection						
No. of Indoor Units Connectible (min/max)	2 / 2	2 / 2	2 / 2	2 / 4	2 / 4	2 / 4
Indoor Unit Capacity Connectable of Max kW	5.0 - 5.6	6.3 - 6.8	7.5 - 9.0	10.0 - 12.7	12.4 - 15.1	14.7 - 18.3
Ratio Larget / Smallest Indoor Unit	2 : 1	2 : 1	2 : 1	2 : 1	2 : 1	2 : 1

Combination Multi Head

Outdoor Unit (kW)	2.2 - 5.6	2.2 - 6.3	3.2 - 8.0	4.5 - 11.2	5.7 - 14.0	6.0 - 16.0
RAS	✓	✓	✓	✓	✓	✓

Indoor Unit (kW)	2.2	2.8	4.0	5.6	7.1	8.0	11.2	14.0
4 Way Cassette (RCI)	–	✓	✓	✓	✓	✓	✓	✓
Mini 4 Way Cassete (RCIM)	–	✓	✓	✓	–	–	–	–
2 Way Cassette (RCID)	–	✓	✓	✓	✓	✓	✓	✓
Ducted (RPI)	✓	✓	✓	✓	✓	✓	✓	✓
Under Ceiling (RPC)	–	–	✓	✓	✓	✓	✓	✓
Wall (RPK)	–	✓	✓	✓	✓	✓	✓	–

✓ COMBINATION – N/A

Ducted
Comparison Chart - RPI Series

Multi Head

Model: Indoor	RPI-0.8FSN2	RPI-1.0FSN2	RPI-1.5FSN2	RPI-2.0FSN2	RPI-2.5FSN2	RPI-3.0FSN2	RPI-4.0FSN2	RPI-5.0FSN2
Capacity (kW)								
Nominal Cooling Capacity	2.2	2.8	4.0	5.6	7.1	8.0	11.2	14.0
Nominal Heating Capacity	2.5	3.2	4.8	6.3	8.5	9.0	12.5	16.0
Air Flow (l/sec)								
Hi / Med / Low	133 / 117 / 100	133 / 117 / 100	217 / 183 / 150	250 / 217 / 183	267 / 233 / 200	317 / 283 / 233	450 / 383 / 317	617 / 517 / 471
Dimensions								
Dimensions (H x W x D mm)	270 x (650 + 75) x 720	270 x (650 + 75) x 720	270 x (650 + 75) x 720	270 x (900 + 75) x 720	270 x (900 + 75) x 720	350 x (650 + 75) x 800	350 x (900 + 75) x 800	350 x (900 + 75) x 800
Weight (kg)	26	26	26	35	35	37	46	48
Sound Pressure Level								
Hi / Med / Low dB(A)	35 / 33 / 31	35 / 33 / 31	35 / 33 / 31	35 / 33 / 31	36 / 34 / 32	42 / 39 / 35	43 / 40 / 36	44 / 41 / 37
External Pressure (pa)	80	80	80	80	80	170	170	170
Power Supply								
	AC 1Ph 220 - 240V 50Hz				AC 1Ph 220 - 240V 50Hz			
Installation								
Connections	Flare Nut Connection				Flare Nut Connection			
Pipe Connection Sizes: Liquid Ømm / Gas Ømm	6.35 / 12.71	6.35 / 12.71	6.35 / 12.71	6.35 / 15.88	9.53 / 15.88	9.53 / 15.88	9.53 / 15.88	9.53 / 15.88
Air Spigot Dimensions (W x H mm)								
Supply Air Spigot	553 x 220	553 x 220	553 x 220	803 x 220	803 x 220	553 x 220	803 x 220	1203 x 220
Return Air Spigot	583 x 226	583 x 226	583 x 226	833 x 226	833 x 226	583 x 306	833 x 306	1233 x 306

NOTES:

The nominal cooling and heating capacity is the combined capacity of the Hitachi standard split system, and is based on the JIS standard B8616. Cooling Operation Conditions: Indoor Air Inlet Temperature: 27˚C DB, 19.0˚C WB; Outdoor Air Inlet Temperature: 35˚C DB. Heating Operation Conditions: Indoor Air Inlet Temperature: 20˚C DB; Outdoor Air Inlet Temperature: 7˚C DB, 6˚C WB. Published capacities based on Piping Length: 7.5 metres, Piping Lift: 0 metres. 2. The sound pressure level is based on following conditions: 1.5 metres beneath the unit. With discharge duct (2.0m) and return duct (1.0m). Voltage of the power source for the indoor fan motor is 220V. In case of the power source of 240V, the sound pressure level increases by about 1 or 2dB. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

4 Way Cassette
Comparison Chart - RCI Series

Model	RCI-1.0FSN3	RCI-1.5FSN3	RCI-2.0FSN3	RCI-2.5FSN3	RCI-3.0FSN3	RCI-4.0FSN3	RCI-5.0FSN3
Capacity (kW)							
Nominal Cooling Capacity	2.8	4.0	5.6	7.1	8.0	11.2	14.0
Nominal Heating Capacity	3.2	4.8	6.3	8.5	9.0	12.5	16.0
Air Flow (l/sec)							
UHI / Hi / Med / Low	250/ 217 / 183 / 150	350 / 283 / 233 / 183	350 / 283 / 233 / 183	450 / 383 / 300 / 233	450 / 383 / 300 / 233	617 / 517 / 400 / 333	617 / 550 / 433 / 350
Dimensions							
Dimensions (H x W x D mm)	248 x 840 x 840	248 x 840 x 840	248 x 840 x 840	248 x 840 x 840	298 x 840 x 840	298 x 840 x 840	298 x 840 x 840
Weight (kg)	20	21	21	22	26	26	26
Adaptable Air Panel Model	P-AP160NA1 (Std - Exc Motion Sensor) / P-AP160NAE (Optional - Inc Motion Sensor)				P-AP160NA1 (Std - Exc Motion Sensor) / P-AP160NAE (Optional - Inc Motion Sensor)		
Panel Size (mm) (H x W x Dmm)	37 x 950 x 950				37 x 950 x 950		
Colour	Natural White				Natural White		
Sound Pressure Level (dB(A))							
UHi / Hi / Med / Low	33 / 30 / 28 / 27	35 / 31 / 30 / 27	37 / 32 / 30 / 27	42 / 36 / 32 / 28	42 / 36 / 32 / 28	48 / 43 / 39 / 33	48 / 45 / 40 / 35
Power Supply							
	AC 1Ph 220 - 240V 50Hz				AC 1Ph 220 - 240V 50Hz		
Installation							
Connections	Flare Nut Connection				Flare Nut Connection		
Pipe Connection Sizes: Liquid Ømm / Gas Ømm	6.35 / 12.7	6.35 / 12.7	6.35 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88

NOTES:

The nominal cooling and heating capacity is the combined capacity of the Hitachi standard split system, and is based on the JIS standard B8616. Cooling Operation Conditions: Indoor Air Inlet Temperature: 27˚C DB, 19.0˚C WB; Outdoor Air Inlet Temperature: 35˚C DB. Heating Operation Conditions: Indoor Air Inlet Temperature: 20˚C DB; Outdoor Air Inlet Temperature: 7˚C DB, 6˚C WB. Published capacities based on Piping Length: 7.5 metres, Piping Lift: 0 metres. 2. The sound pressure level is based on following conditions: 1.5 metres beneath the unit. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

2 Way Cassette
Comparison Chart - RCD Series

Model: Indoor Unit	RCD-1.0FSN2	RCD-2.0FSN2	RCD-3.0FSN2	RCD-5.0FSN2
Capacity (kW)				
Nominal Cooling Capacity	2.8	5.6	8.0	14.0
Nominal Heating Capacity	3.2	6.3	9.0	16.0
Air Flow (l/sec)				
Hi / Med / Low	166 / 150 / 133	250 / 217 / 183	317 / 267 / 233	567 / 483 / 417
Dimensions				
Dimensions (H x W x D mm)	298 x 860 x 620	298 x 860 x 620	298 x 860 x 620	298 x 1420 x 620
Weight (kg)	27	27	30	48
Adaptable Air Panel Model	P-N23DNA	P-N23DNA	P-N23DNA	P-N46DNA
Panel Size (mm) (H x W x Dmm)	30 x 1100 x 710	30 x 1100 x 710	30 x 1100 x 710	30 x 1660 x 710
Colour	Natural White			
Sound Pressure Level (dB(A))				
Hi / Med / Low	34 / 32 / 30	35 / 32 / 30	38 / 34 / 31	43 / 40 / 36
Power Supply				
	AAC 1Ph 220 - 240V 50Hz			
Installation				
Connections	Flare Nut Connection			
Pipe Connection Sizes: Liquid Ømm / Gas Ømm	6.356 / 12.70	6.35 / 15.88	9.53 / 15.88	9.53 / 15.88

NOTES:

The nominal cooling and heating capacity is the combined capacity of the Hitachi standard split system, and is based on the JIS standard B8616. Cooling Operation Conditions: Indoor Air Inlet Temperature: 27˚C DB, 19.0˚C WB; Outdoor Air Inlet Temperature: 35˚C DB. Heating Operation Conditions: Indoor Air Inlet Temperature: 20˚C DB; Outdoor Air Inlet Temperature: 7˚C DB, 6˚C WB. Published capacities based on Piping Length: 7.5 metres, Piping Lift: 0 metres. 2. The sound pressure level is based on following conditions: 1.5 metres beneath the unit. Voltage of the power source for the indoor fan motor is 220V. In case of the power source of 240V, the sound pressure level increases by about 1dB. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

Underceiling
Comparison Chart - RPC Series

Model: Indoor unit	RPC-2.0FSN3	RPC-2.5FSN2	RPC-3.0FSN3	PRPC-4.0FSN2	RPC-5.0FSN3
Capacity (kW)					
Nominal Cooling Capacity	5.6	7.1	8.0	11.2	14.0
Nominal Heating Capacity	6.3	8.5	9.0	12.5	16.0
Air Flow (l/sec)					
UHi / Hi / Med / Low	250 / 217 / 183 / 150	316 / 275 / 233 / 192	350 / 308 / 258 / 208	500 / 442 / 367 / 283	583 / 517 / 425 / 333
Dimensions					
Dimensions (H x W x D mm)	235 x 960 x 690	235 x 1270 x 690	235 x 1270 x 690	235 x 1580 x 690	235 x 1580 x 690
Weight (kg)	27	35	35	41	41
Cabiner Colour	Silky White				
Sound Pressure Level (dB(A))					
UHi / Hi / Med / Low	38 / 35 / 31 / 28	38 / 35 / 31 / 28	40 / 37 / 33 / 29	44 / 42 / 37 / 32	48 / 45 / 41 / 35
Power Supply					
	AAC 1Ph 220 - 240V 50Hz				
Installation					
Connections	Flare Nut Connection				
Pipe Connection Sizes: Liquid Ømm / Gas Ømm	6.35 / 15.88	9.53 / 15.88	9.53 / 15.88	9.53 / 15.88	9.53 / 15.88

NOTES:

The nominal cooling and heating capacity is the combined capacity of the Hitachi standard split system, and is based on the JIS standard B8616. Cooling Operation Conditions: Indoor Air Inlet Temperature: 27˚C DB, 19.0˚C WB; Outdoor Air Inlet Temperature: 35˚C DB. Heating Operation Conditions: Indoor Air Inlet Temperature: 20˚C DB; Outdoor Air Inlet Temperature: 7˚C DB, 6˚C WB. Published capacities based on Piping Length: 7.5 metres, Piping Lift: 0 metres. 2. The sound pressure level is based on following conditions: 1.5 metres beneath the unit and 1 metre from the discharge grille. Voltage of the power source for the indoor fan motor is 220V. In case of the power source of 240V, the sound pressure level increases by about 1dB. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

Outdoor
Comparison Chart - RAS Series

Model: Outdoor Unit	RAS-2HVNP	RAS-2.5HVNP	RAS-3HVNC	RAS-4HVNC1	RAS-5HVNC1	RAS-6HVNC1
Capacity (kW)						
Cooling Capacity	5.0	5.6	7.1	10.0	12.5	13.0
Cooling Capacity Range	2.5 - 5.6	2.2 - 6.3	3.2 - 8.0	4.5 - 11.2	5.7 - 14.0	6.0 - 16.0
Heating Capacity	5.6	6.3	8.0	11.2	14.0	16.0
Heating Capacity Range	2.2 - 7.1	2.2 - 8.0	3.5 - 9.0	5.0 - 14.0	5.0 - 18.0	5.0 - 20.0
Multi Head Connection						
No. Of Indoor Units (Min / Max)	2 / 2	2 / 2	2 / 2	2 / 4	2 / 4	2 / 4
Indoor Unit Max Capacity Connectable kW	5.0 / 5.6	6.3 / 6.8	7.5 / 9.0	10.0 / 12.7	12.4 / 15.1	14.7 / 18.3
Ratio Largest / Smallest Indoor Unit Capacity	2:1			2:1		
Dimensions						
Outdoor Unit: (H x W x D mm)	600 x 792 x 300	600 x 792 x 300	600 x 792 x 300	1140 x 950 x 370	1140 x 950 x 370	1140 x 950 x 370
Weights: Indoor kg / Outdoor kg	41	41	44	79	89	89
Sound Pressure Level (dB(A))						
Outdoor Unit (Cool / Heat / Night)	44 / 46 / 42	45 / 47 / 43	48 / 50 / 46	52 / 54 / 50	52 / 54 / 50	55 / 57 / 53
Working Range (°C db)						
Cooling	-5° / 46°			-5° / 46°		
Heating	-20° / 15°			-20° / 15°		
Piping						
Pipe Connection Sizes : Liquid Ømm / Gas Ømm	6.35 / 12.70	6.35 / 12.70	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88
Max Pipe Length (m)	50	50	50	70	75	75
Max Pre Charged Length (m)	30	30	20	30	30	30
Max Pipe Lift (m) (Outdoor Above / Outdoor Below)	30 / 20			30 / 20		
Refrigerant Flow Control	Micro Computer Control Expansion valve			Micro Computer Control Expansion valve		
Condenser Fan Air Flow l/s	677	677	745	1033	1133	1333
Condenser Fan Quantity	1			1		
Electrical						
Power Supply	AC 1 Ph 220 - 240V 50Hz			AC 1 Ph 220 - 240V 50Hz		
Outdoor Unit Max Current	12	14	16	26	26	26
Interconnection Wires mains	0.75mm² 2C + E (min)			0.75mm² 2C + E (min)		
Interconnection Wires comms	Twisted Pair Cable with Shield - 0.75mm² min			Twisted Pair Cable with Shield - 0.75mm² min		

NOTES:

Cooling Operation Conditions: Indoor Air Inlet Temperature: 27˚C DB, 19.0˚C WB; Outdoor Air Inlet Temperature: 35˚C DB. Heating Operation Conditions: Indoor Air Inlet Temperature: 20˚C DB; Outdoor Air Inlet Temperature: 7˚C DB, 6˚C WB. Published capacities based on Piping Length: 7.5 metres, The sound pressure level is based on following conditions: 1 metre from the unit service cover surface, and 1.5 metres from floor level. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

4 Way Cassette
Comparison Chart - RCIM Series

Model	RCIM-1.0FSN4	RCIM-1.5FSN4	RCIM-2.0FSN4
Capacity (kW)			
Nominal Cooling Capacity	2.5	3.6	5.0
Nominal Heating Capacity	2.8	4.0	5.8
Air Flow (l/sec)			
Hi / Med / Low	217 / 200 / 183	250 / 225 / 200	267 / 233 / 200
Dimensions			
Dimensions (H x W x D mm)	295 x 570 x 570		
Weight (kg)	17		
Adaptable Air Panel Model	P-N23WAM		
Panel Size (mm) (H x W x Dmm)	35 x 700 x 700		
Colour	Gypsum White		
Sound Pressure Level (dB(A))			
Hi / Med / Low	36 / 34 / 32	38 / 35 / 33	42 / 39 / 37
Power Supply			
	AC 1Ph 220 - 240V 50Hz		
Installation			
Connections	Flare Nut Connection		
Pipe Connection Sizes: Liquid Ømm / Gas Ømm	6.35 / 12.7	6.35 / 12.7	6.35 / 15.88

NOTES:

The nominal cooling and heating capacity is the combined capacity of the Hitachi standard split system, and is based on the JIS standard B8616. Cooling Operation Conditions: Indoor Air Inlet Temperature: 27˚C DB, 19.0˚C WB; Outdoor Air Inlet Temperature: 35˚C DB. Heating Operation Conditions: Indoor Air Inlet Temperature: 20˚C DB; Outdoor Air Inlet Temperature: 7˚C DB, 6˚C WB. Published capacities based on Piping Length: 7.5 metres, Piping Lift: 0 metres. 2. The sound pressure level is based on following conditions: 1.5 metres beneath the unit and 1 metre from the discharge grille. Voltage of the power source for the indoor fan motor is 220V. In case of the power source of 240V, the sound pressure level increases by about 1dB. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

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