

# HITACHI

HEAT PUMPS

*thinking of you*

## Premium Air Conditioning

Utopia Premium Inverter



6 Year  
Warranty

Air  
Purifying  
Filters

Quiet

Heat  
and  
Cool

Energy  
Efficient





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## Premium Inverter

### Premium Air Conditioning

Hitachi Utopia Premium Inverter is designed to provide the best in air conditioning performance.

For the home, Premium Inverter is the height of luxury. Concealed ducted units quietly and effortlessly fill your home with comfort while customised diffusers enhance the ambience of your surroundings.

The perfect solution for homes, offices, shops and restaurants Premium Inverter boasts the power and features to ensure you receive absolutely reliable and efficient air conditioning all year round.

Efficient and versatile Premium Inverter can be customised to suit many different applications. With six different indoor unit types, each available in a wide range of sizes, and the option of connecting up to four indoor units to a single outdoor unit you're spoiled for choice.



# Utopia Premium Inverter

## Key Benefits of Hitachi Premium Inverter Multi-Head Systems

- Six different indoor styles and six outdoor units with varying capacities allow for greater system customisation.
- Combine up to four indoor units running off a single outdoor unit to preserve space and save on installation and running costs.
- Indoor units can operate independently of each other at different temperatures allowing for greater control and energy savings.
- A comprehensive range of intelligent Hitachi controllers allow for precision control of individual or combined areas.
- Benefits of having a variety of indoor units e.g eliminate air cross contamination.
- Utopia Premium Inverter is a mini VRF.
- Runs on single phase 230V power.

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## Utopia Premium Inverter Range

The Hitachi Utopia Inverter range of heat pump air conditioners is designed to provide effective and economical air conditioning for offices, shops, restaurants, residential homes and separate or isolated areas within large premises.

Hitachi Utopia Premium Inverter systems have the versatility of combining multiple indoor units to a single outdoor unit. Choose a simple one-to-one connection or a combination of up to 4 indoor units made up of ducted, cassettes, underceiling and wall mounted styles all run from a single outdoor unit with individual or joint controls. The system can be customised to suit specific applications whether that be for shop, home or office.

## Key Features

### Inverter Technology

Hitachi Inverters are designed to reduce electricity usage as much as possible by self-adjusting their output up and down as conditions vary through the day to ensure only the minimum power, and no more, is used at any particular time to maintain a consistent air temperature.

### 6 Year Warranty



The Premium Inverter range is reliable, thoroughly tested, built to last and carries a 6 Year Parts & Labour warranty which is backed by Temperzone Ltd – the NZ distributor of Hitachi heat pumps and the leading air conditioning manufacturer in New Zealand.



Ducted Type (RPI)



4-Way Cassette Type (RCI)



Compact 4-Way Cassette (RCIM)



Wall Controllers



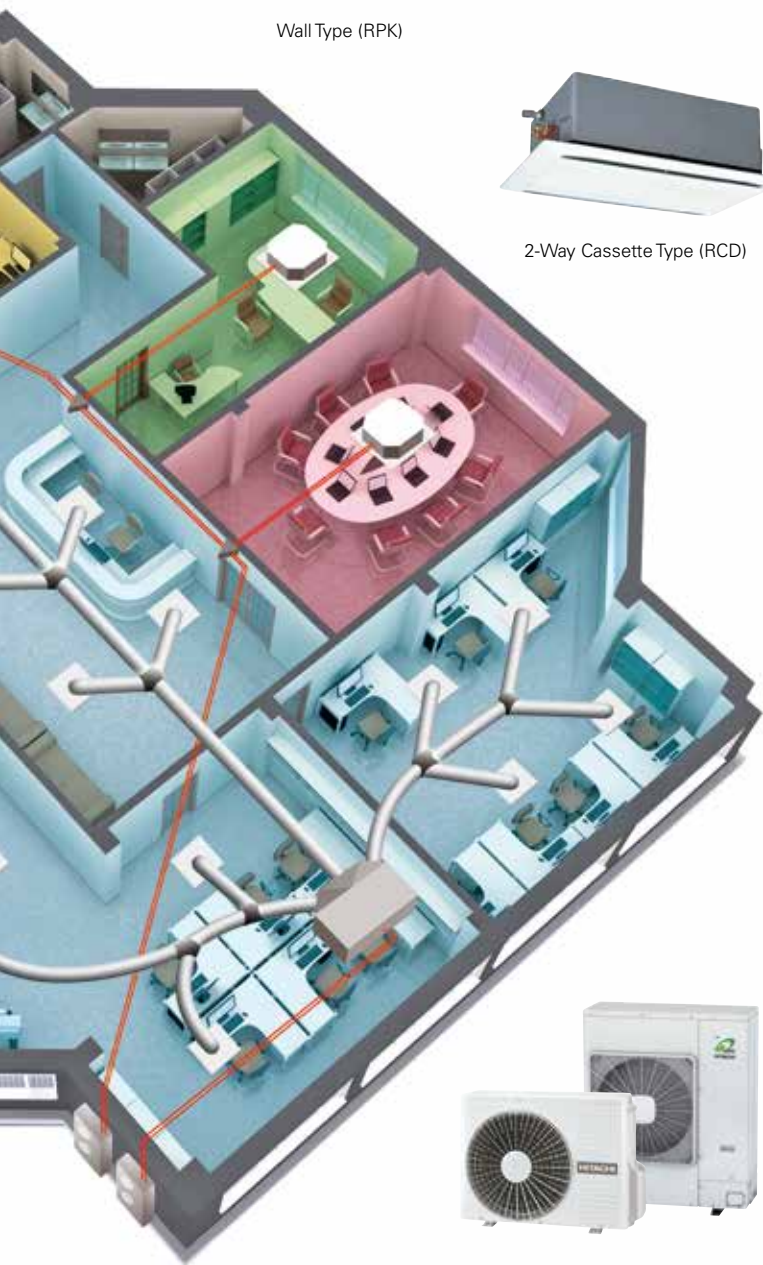
Wireless Controllers



Wall Type (RPK)



2-Way Cassette Type (RCD)



Outdoor Units (RAS)



Ceiling Type (RPC)



Half Sized Wall  
Controllers

## Auto-Changeover Control

Hitachi Premium Inverter systems heat and cool. As conditions alter Auto-control changes the system from heating to cooling automatically, as required, maintaining the temperature without user intervention. The Premium Inverter range is a two pipe system so every unit must run in the same mode i.e. all heating or all cooling.

## Quiet Operation

The system has been designed using the latest sound reduction techniques to ensure they are not intrusive. Night shift sound reduction is available on outdoor units.

## Non Ozone Depleting Refrigerant

The system uses R410A refrigerant which is non-flammable with zero ozone depletion.

## Fresh Air

Fresh air from outside is essential, indeed required, in many applications. Both the Cassettes and the Ducted units are designed to be able to accept air from the outside and mix it in with conditioned air to ensure there is always a proportion of fresh air in the air supplied.

## Hitachi Set-Free

As Utopia Premium Inverter systems utilise the same indoor units and common controls they can be used in conjunction with Hitachi VRF, i.e. larger capacity systems.

## Energy Efficient

Each indoor unit independently self adjusts to match the load giving both better comfort and better efficiency. Indoor units in unoccupied spaces can be turned off, further increasing efficiency over a single centralised system.

4-way cassettes and underceiling units can be installed with motion sensors, which automatically turn down or turn off indoor units for unparalleled energy savings.

## Long Pipe Lengths

With a maximum piping length of up to 75m and height difference of 30m these systems can accommodate a wide range of installations e.g. office blocks, apartments and large homes.

## Intelligent Controls

A fully-programmable centralised 7 day timer is available to switch all units on/off automatically to conserve power at times when there are not people normally working in the area. Central controls are available for control of up to 128 air conditioning units.

Units are able to accept inputs from external controls e.g. remote stop/start, fire alarm, external thermostat. System outputs are also available, e.g. fault conditions, mode (heat/cool), thermostat on.

# 4-Way Cassette (RCI)

## Cassette System

Four-way airflow cassettes, which fit into the ceiling, are an economical and effective way of air conditioning open areas with high occupancy or traffic, such as shops, walkways, and restaurants.

Usually located centrally within an air conditioned space they do not use up valuable wall space. Suited to ceilings up to 4.2m high they provide excellent general air conditioning.

The cassette system does not require specialised duct design and manufacture.

## Features

- Available in 6 sizes ranging from 5.0–13.0kW cooling and 5.6–16.0kW heating
- Supplies heating down to -20°C outdoor ambient and cooling up to +46°C outdoor ambient
- Has an attractive fascia and new silky flow curved louvre which prevents smudging on the ceiling
- Option of fitting a ducted air outlet or fresh air inlet
- Four air volume settings, now includes 'Ultra Hi' allowing for higher ceiling heights
- 4-way airflow as standard but can be configured to 2 or 3-way



## Low Voltage Drain Pump



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 and a larger 22mm drain diameter assists in more efficient drainage.

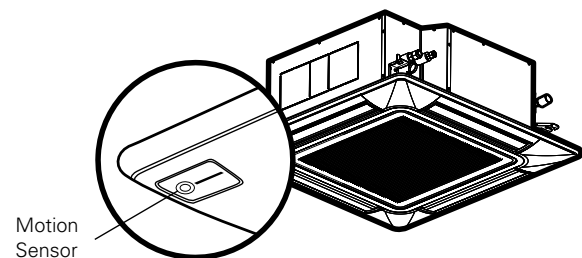
## One Touch Panel

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



## Motion Sensor

An optional panel with a infrared motion sensor is available on all models. It functions to automatically adjust the airflow volume, airflow direction and temperature according to the amount of human activity. It can be turned off or on and settings can be adjusted by remote.



## Energy Saving Additions

Energy saving additions include: a newly developed high performance heat exchanger with a 5mm diameter pipe; a high efficiency turbo fan with a 3D twist blade and a electric power-saving low voltage drain pump.

## Cassette Type (RCI)

Model: Indoor Unit Model: Outdoor Unit	RCI-2.0FSN3 RAS-2HVNP	RCI-2.5FSN3 RAS-2.5HVNP	RCI-3.0FSN3 RAS-3HVNC	RCI-4.0FSN3 RAS-4HVNC1	RCI-5.0FSN3 RAS-5HVNC1	RCI-6.0FSN3 RAS-6HVNC1
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## General Specifications

## Capacity

Cooling Capacity (kW)	5.0	5.6	7.1	10.0	12.5	13.0
Range (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
Heating Capacity (kW)	5.6	6.3	8.0	11.2	14.0	16.0
Range (kW)	2.2 ~ 7.1	2.2 ~ 8.0	3.5 ~ 9.0	5.0 ~ 14.0	5.0 ~ 18.0	5.0 ~ 20.0

## Efficiency

Power Consumption kW (Cooling)	1.24	1.41	2.08	2.75	3.71	3.99
Power Consumption kW (Heating)	1.20	1.28	2.17	2.45	3.60	4.50
EER / AEER (Cooling)	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 Heating	4.68 / 4.16	4.92 / 4.51	3.69 / 3.52	4.57 / 4.25	3.89 / 3.63	3.56 / 3.44

## Airflow

Fan Speeds	4	4	4	4	4	4
Air Flow (l/s) UHi / Hi / Med / Low	350 / 283 / 233 / 183	450 / 383 / 300 / 233	450 / 383 / 300 / 233	617 / 517 / 400 / 333	617 / 550 / 433 / 350	617 / 583 / 467 / 367

## Dimensions &amp; weights

Dimensions IU (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
Dimensions OU (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
Weight IU / OU (kg)	21 / 41	22 / 41	26 / 44	26 / 79	26 / 89	26 / 89

## Sound Pressure Level

Sound Pres. IU dB(A) (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
Sound Pres. OU dB(A) (Cool / Heat / Night)	44 / 46 / 42	45 / 47 / 43	48 / 50 / 46	52 / 54 / 50	52 / 54 / 50	55 / 57 / 53

## Working range

Outdoor Operating Temp. (Cooling) °C db	-5 to +46	-5 to +46	-5 to +46	-5 to +46	-5 to +46	-5 to +46
Outdoor Operating Temp. (Heating) °C wb	-20 to +15	-20 to +15	-20 to +15	-20 to +15	-20 to +15	-20 to +15

Fascia Panel Model	P-AP160NA1 (without motion sensor) / P-AP160NAE (with motion sensor)
Wired Control	PC-ARF
Infrared Controller / Receiver	PC-LH3B / PC-ALH3
3 Way Outlet Kit	PI-160LS1
Fresh Air Inlet	PD-75A
Remote Input / Output Plug	PCC-1A

## Installer Specifications

## Electrical

Interconnecting Wires (mains)	0.75mm <sup>2</sup> 2C+E min.					
Interconnecting Wires (comms)	Twist-Pair Cable with Shield, 0.75mm <sup>2</sup> min.					
Max Current (Amps)	12	14	16	26	26	26

## Installation

Pipe Connection Sizes: Liquid / Gas (mm)	6.35 / 12.70	6.35 / 12.70	9.53 / 15.88	9.53 / 15.88	9.53 / 15.88	9.53 / 15.88
Refrigerant Pipe Charge Length (m)	30	30	20	30	30	30
Max. Pipe Length (m)	50	50	50	70	75	75
Max. Pipe Lift (m) (OU above / OU below)	30 / 20	30 / 20	30 / 20	30 / 20	30 / 20	30 / 20

## 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.

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# Ducted (RPI)

## Ducted System

Provided there is sufficient space ducted units are often the first choice because of their versatility.

Subtle vents, located throughout your home or office, quietly and efficiently deliver cool or warm ducted air throughout the building to maintain a constant temperature, while the indoor unit can be easily installed out of sight in the floor or ceiling.

Hitachi ducted systems can be combined with temperzone ducting, grilles and accessories to provide superior filtration and to distribute clean air more effectively as each room requires.

## Key Features

- The most up-to-date inverter technology.
- Available in 7 sizes ranging from 5.0–16.0kW cooling and 5.6–18.0kW heating.
- Supplies heating down to -20°C outdoor ambient and cooling up to +46°C outdoor ambient.
- Up to 140 Pa external pressure available.
- Outdoor/indoor pipe length up to 75m and 30m elevation.
- Self-diagnostic function for easy servicing.
- Separable indoor unit for ease of installation (excludes RPI-2/2.5/7).



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## Key Benefits of a Ducted System

- Capable of air conditioning your whole house or office area with a single indoor unit through the use of in-ceiling or under floor ducting.
- Ducted systems provide discreet air conditioning that doesn't occupy valuable wall space and air diffusers can be positioned to fit around lighting and other fixtures.
- Ducted air conditioning has the potential to enhance interior design with a wide selection of aesthetically appealing styles of air diffusers to choose from.
- You can control which areas you would like to heat or cool at any particular time and save on running costs.
- Ducted systems are one of the quietest types of air conditioning with installed sound levels quieter than an equivalent capacity wall mounted heat pump.
- Ducted systems provide flexibility in design making them easy to install in new or existing buildings. A system can be designed so the ducted unit is installed away from high usage areas and easy to service.



## Ducted Type (RPI)

Model: Indoor Unit	RPI-2.0FSN2	RPI-2.5FSN2	RPI-3.0FSN2SQ	RPI-4.0FSN2SQ	RPI-5.0FSN2SQ	RPI-6.0FSN2SQ	RPI-7.0FSN2SQ
Model: Outdoor Unit	RAS-2HVN2P	RAS-2.5HVN2P	RAS-3HVNC	RAS-4HVNC1	RAS-5HVNC1	RAS-6HVNC1	RAS-7HVRNM2

### General Specifications

#### Capacity

Cooling Capacity (kW)	5.0	5.6	7.1	10.0	12.5	13.0	16.0
Range (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	6.0 ~ 18.0
Heating Capacity (kW)	5.6	6.3	8.0	11.2	14.0	16.0	18.0
Range (kW)	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

#### Efficiency

Power Consumption kW (Cooling)	1.49	1.60	2.16	2.55	3.68	3.98	4.76
Power Consumption kW (Heating)	1.55	1.65	2.32	2.47	3.22	3.80	4.28
EER / AEER (Cooling)	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 (Heating)	3.61 / 3.55	3.82 / 3.57	3.45 / 3.58	4.53 / 4.02	4.35 / 3.78	4.21 / 3.68	4.21 / 3.75

#### Airflow

Fan Speeds	3	3	3	3	3	3	3
Ex Static Max (Pa)	80	80	120	120	120	120	140
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

#### Dimensions & weights

Dimensions IU (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
Dimensions OU (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
Weight IU / OU (kg)	35 / 41	35 / 41	52 / 44	57 / 79	61 / 89	63 / 89	75 / 104

#### Sound Pressure Level

Sound Pres. IU dB(A) (Hi / Med / Low)	35 / 33 / 31	36 / 34 / 32	46 / 44 / 40	48 / 45 / 41	49 / 46 / 43	53 / 49 / 45	51 / 47 / 42
Sound Pres. OU dB(A) (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

Outdoor Operating Temp. (Cooling) °C db	-5 to +46	-5 to +46	-5 to +46	-5 to +46	-5 to +46	-5 to +46	-5 to +46
Outdoor Operating Temp. (Heating) °C wb	-20 to +15	-20 to +15	-20 to +15	-20 to +15	-20 to +15	-20 to +15	-20 to +15

Wired Controller	PC-ARF						
Infrared Controller / Receiver	PC-LH3A / PC-ALHZ						
Optional Drain Pump	DUPI-132C	DUPI-132C	DUPI-162S	DUPI-162S	DUPI-162S	DUPI-162S	N/A
Remote Temp Sensor	THM-R2A						
Remote Input / Output Plug	PCC-1A						

### Installer Specifications

#### Electrical

Interconnecting Wires (mains)	0.75mm <sup>2</sup> 2C+E min.						
Interconnecting Wires (comms)	Twist-Pair Cable with Shield, 0.75mm <sup>2</sup> min.						
Max Current (Amps)	12	14	16	26	26	26	32

#### Installation

Pipe Connection Sizes: Liquid / Gas (mm)	6.35 / 12.70	6.35 / 12.70	9.53 / 15.88	9.53 / 15.88	9.53 / 15.88	9.53 / 15.88	9.53 / 15.88
Refrigerant Pipe Charge Length (m)	30	30	20	30	30	30	30
Max. Pipe Length (m)	50	50	50	70	75	75	75
Max. Pipe Lift (m) (OU above / OU below)	30 / 20	30 / 20	30 / 20	30 / 20	30 / 20	30 / 20	30 / 20

#### Duct flange sizes

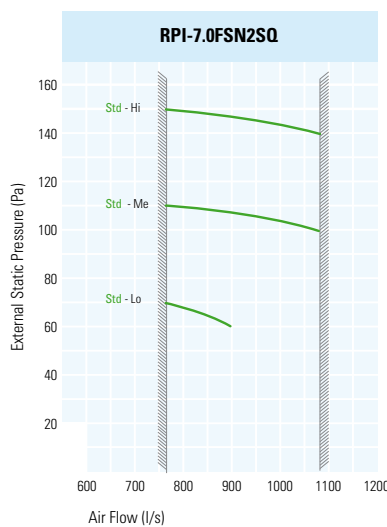
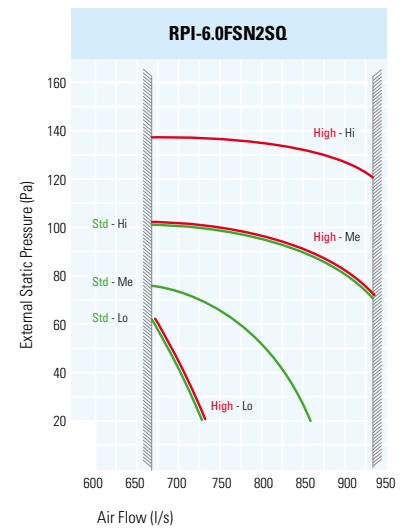
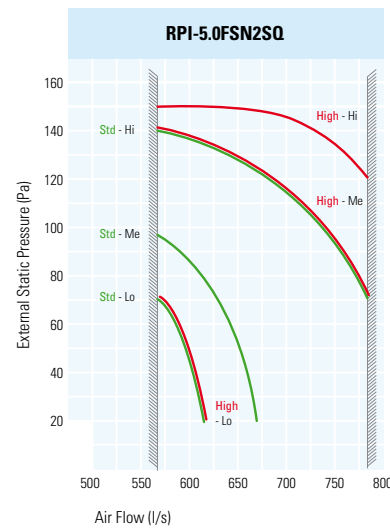
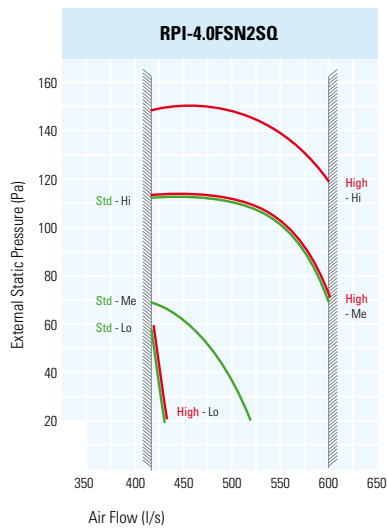
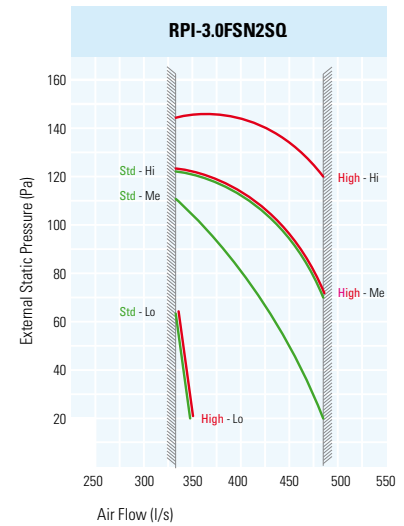
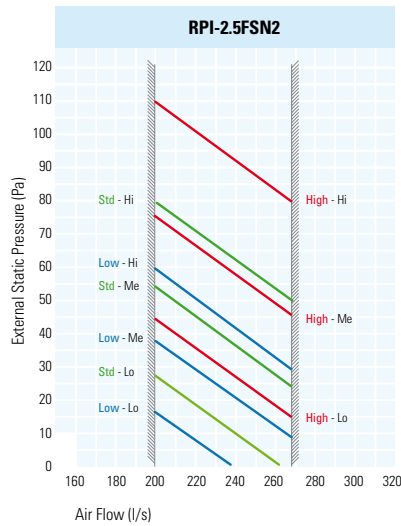
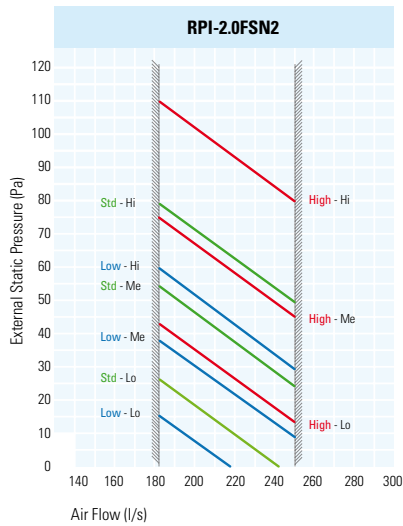
Supply Air Connection (mm)	803 x 220	803 x 220	980 x 220	980 x 220	1205 x 220	1205 x 220	830 x 300
Return Air Connection (mm)	833 x 226	833 x 226	813 x 306	813 x 306	813 x 306	935 x 306	1288 x 402

#### 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 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.

## Fan Performance - One-to-One Ducted Units

— High External Static Pressure  
— Standard External Static Pressure  
— Low External Static Pressure



### Note:

Units can only be set on one external static pressure setting. Units come with standard external static pressure selected. Changing to either low or high external static pressure is done via selection on the wall controller.

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# Premium Inverter Multi-Head

## Design Flexibility

With the versatility of running up to four indoor units off one outdoor unit and the ability to create systems of varying capacity, the Premium Inverter multi-head range gives you the flexibility to design systems that precisely meet the specifications of your project. Whether it's your family home with one outdoor unit linked to multiple indoor units or an office block that requires multiple outdoor units linked to numerous individually controlled indoor units, Premium Inverter does it all.

## Shops

Shops are constantly changing environments and Hitachi Premium Inverter multi-head systems provide the flexibility to be able to add or remove units as required with very little hassle saving time and money.

## Restaurants

With the ability to select from a number of indoor units Premium Inverter multi-head is the perfect choice for restaurants where there is a need to avoid air cross contamination while air conditioning different spaces.

## Individual Operating Function

### Energy Saving / Comfort

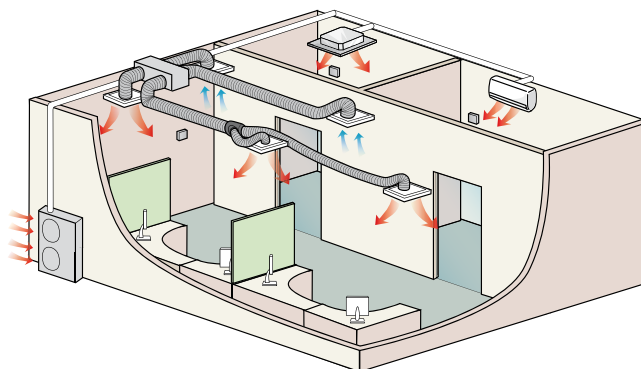
Even if an indoor unit in the low-load area which has reached the set temperature stops, an indoor unit in the high-load area continues to function, a system which leads to energy savings. Operation of multiple indoor units with unbalanced loads in the same room is possible and can be operated from a single wall controller.

### Easy Design / Installation

A sudden change of layout can be handled simply by adding a controller, no additional outdoor units or large-scale construction is required.

Combining a single outdoor unit (5.6–16.0kW heating) to multiple indoor units means piping and wiring runs are shorter and installation is easier as there is only one refrigeration system. This results in lower installation costs and shorter construction periods.

Only having to accommodate a small single outdoor unit is great where space is a premium.

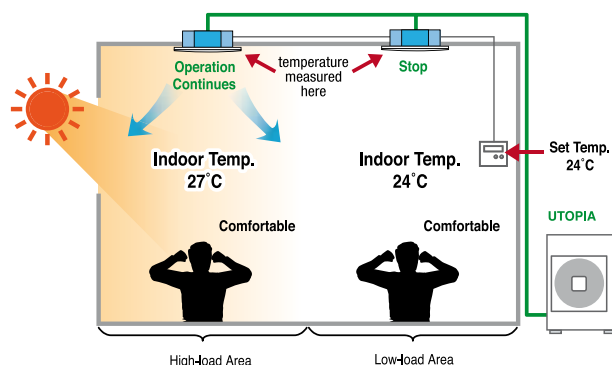


## Homes / Apartments

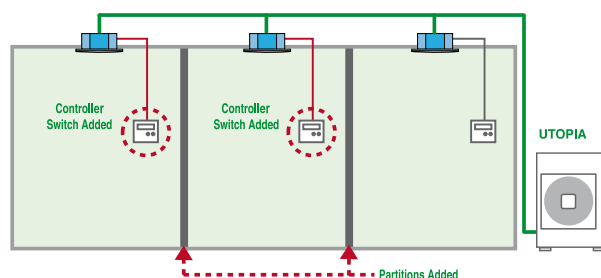
Hitachi Premium Inverter multi-head is the ideal choice for homes that require premium air conditioning in multiple rooms. Units operate individually taking up minimal room inside and out, a perfect choice for tenanted apartments.

## Offices

Hitachi Premium Inverter multi-head systems will meet the specific air conditioning requirements of separate areas within an office building. Indoor units selected for individual spaces and utilising individual operation will allow for high energy savings.



One indoor unit can continue to operate in a room with unbalanced loads



Individual operation is achieved simply by adding a controller

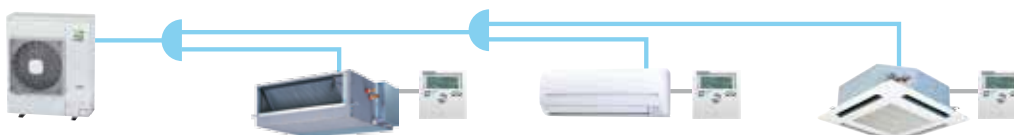


# Multi-Head Connection Options

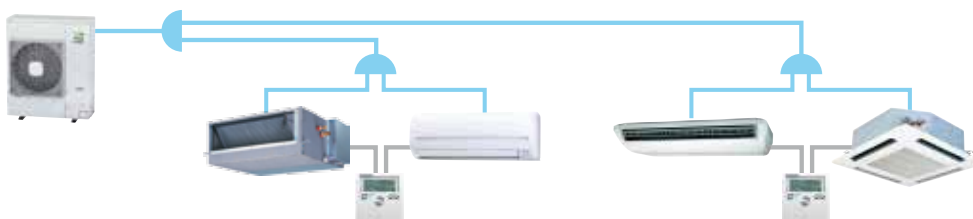
## System Configurations

The Premium Inverter multi-head range gives you the flexibility of connecting up to 4 indoor units to a single outdoor unit (refer page 21 for branch kit and line length information). Individual operating function allows the use of one-to-one controllers to control separate indoor units within a system or alternatively use one controller to control a number of indoor units.

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



**Example:** Quadruple - Grouped operation for two by two units




## Multi-Head Options

Model	RAS-2HVNP	RAS-2.5HVNP	RAS-3HVNC	RAS-4HVNC1	RAS-5HVNC1	RAS-6HVNC1
<b>Multi-Head Connection</b>						
Max. Capacity (kW) (cooling / heating)	5.6 / 7.1	6.3 / 8.0	8.0 / 9.0	11.2 / 14.0	14.0 / 18.0	16.0 / 20.0
Inverter Range Cooling (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
Inverter Range Heating (kW)	2.2 ~ 7.1	2.2 ~ 8.0	3.5 ~ 9.0	5.0 ~ 14.0	5.0 ~ 18.0	5.0 ~ 20.0
No. of IU's Connectable (min. / max.)	2 / 2	2 / 2	2 / 2	2 / 4	2 / 4	2 / 4
IU 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 IU Cap. : Smallest IU Cap. (approx.)	2 : 1	2 : 1	2 : 1	2 : 1	2 : 1	2 : 1

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

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

## Stylish Design

This range of wall mounted indoor units are designed to suit contemporary spaces. With a flat front panel, it is stylish while remaining inconspicuous and allows for easy maintenance.

## User Friendly

Commonly supplied with a wired wall controller, but a simple Dip Switch change on the receiver allows the use of a wireless controller.

## Compact Model

This model has been reduced up to 25% in overall size allowing for more flexibility in your installation placements.

*thinking of you*



Model: Indoor Unit	RPK-1.0FSNSM3	RPK-1.5FSNSM3	RPK-2.0FSNSM3	RPK-2.5FSNSM3	RPK-3.0FSNSM3	RPK-4.0FSNSM3
General Specifications						
Capacity						
Nominal Cooling Capacity (kW)	2.8	4.0	5.6	7.1	8.0	11.2
Nominal Heating Capacity (kW)	3.2	4.8	6.3	8.5	9.0	12.5
Airflow						
Air Flow (l/s) 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 & weights						
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
Cabinet Colour	White					
Sound Pressure Level						
Sound Pressure 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
Installer Specifications						
Power Supply						
Power Supply	AC 1Ph 220 ~ 240V 50Hz					
Installation						
Connections	Flare-Nut Connection					
Pipe Connection Sizes: Liquid / Gas (mm)	6.35 / 12.70	6.35 / 12.70	6.35 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88

1. 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.

# Ducted (RPI)

## Versatile

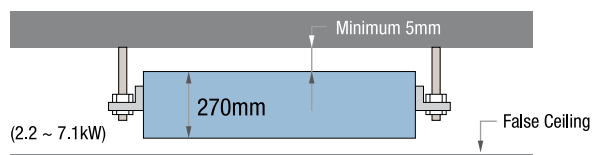
Ducted units are often the air conditioning unit of first choice because of the versatility of being able to duct to where the conditioned air is needed.

## Installation Flexibility

A broad range of available external static pressure (up to 170Pa) means you can select units that are suited to your installation e.g. can support longer duct work.

## Space-saving Design

These units are low profile allowing them to be fitted easily into any existing ceiling space (2.2–7.1kW).



### Model: Indoor Unit

RPI-0.8FSN2

RPI-1.0FSN2

RPI-1.5FSN2

RPI-2.0FSN2

RPI-2.5FSN2

RPI-3.0FSN2

RPI-4.0FSN2

RPI-5.0FSN2

### General Specifications

#### Capacity

Nominal Cooling Capacity (kW)	2.2	2.8	4.0	5.6	7.1	8.0	11.2	14.0
Nominal Heating Capacity (kW)	2.5	3.2	4.8	6.3	8.5	9.0	12.5	16.0

#### Airflow

Air Flow (l/s) 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 / 417
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#### Dimensions & weights

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 (1300 + 75) x 800
Weight (kg)	26	26	26	35	35	37	46	58

#### Sound Pressure Level

Sound Pres. dB(A) (Hi / Med / Low)	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

### Installer Specifications

#### Power Supply

Power Supply	AC 1Ph 220 ~ 240V 50Hz
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#### Installation

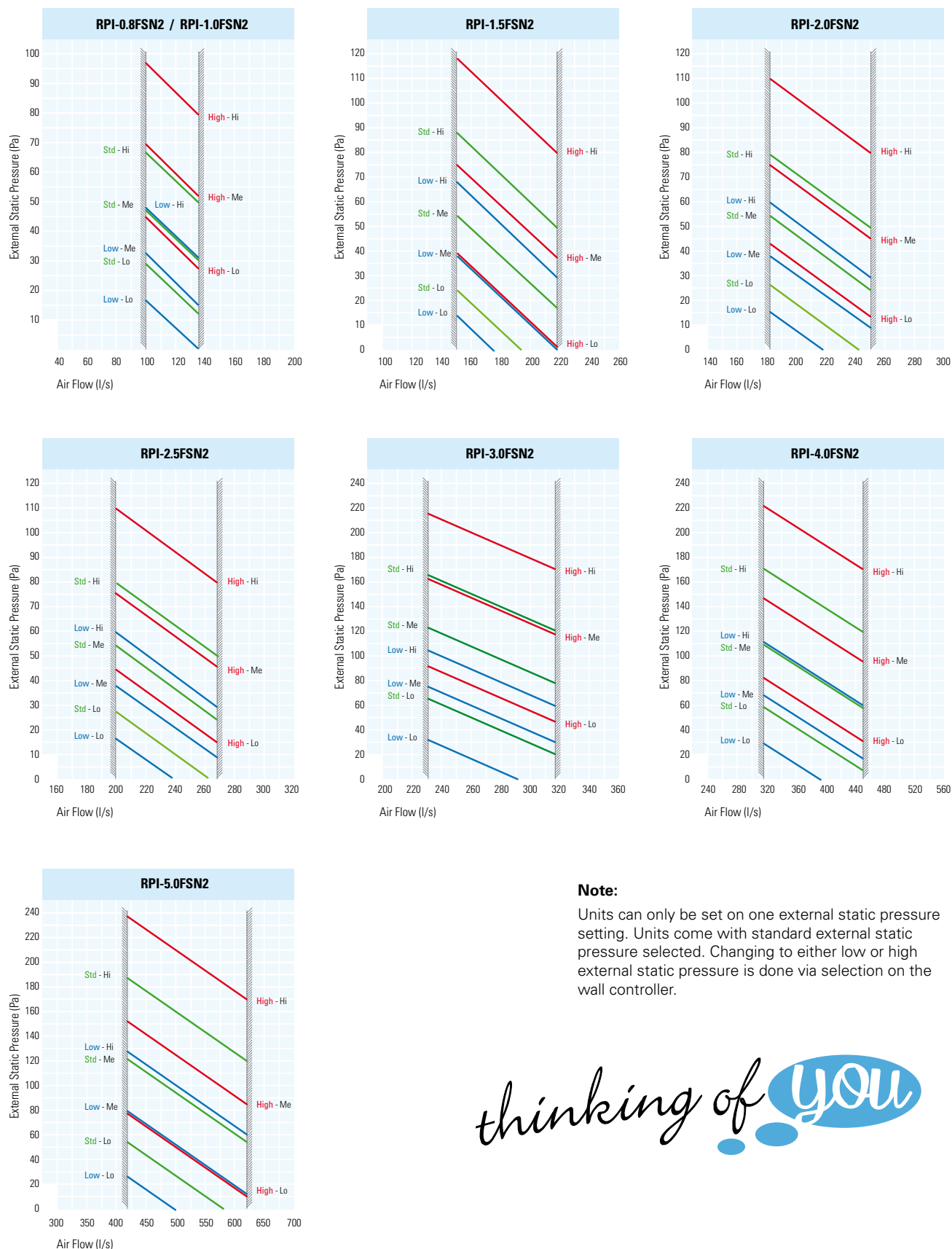
Connections	Flare-Nut Connection							
Pipe Sizes: Liquid / Gas (mm)	6.35 / 12.71	6.35 / 12.71	6.35 / 12.71	6.35 / 15.88	9.53 / 15.88	9.53 / 15.88	9.53 / 15.88	9.53 / 15.88
Supply Flange Size (mm)	553 x 220	553 x 220	553 x 220	803 x 220	803 x 220	553 x 220	803 x 220	1203 x 220
Return Flange Size (mm)	583 x 226	583 x 226	583 x 226	833 x 226	833 x 226	583 x 306	833 x 306	1233 x 306

1. 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.



## Fan Performance - Multi-Head Ducted Units

— High External Static Pressure  
— Standard External Static Pressure  
— Low External Static Pressure



### Note:

Units can only be set on one external static pressure setting. Units come with standard external static pressure selected. Changing to either low or high external static pressure is done via selection on the wall controller.

thinking of you

## 4-Way Cassette

Four-way airflow cassettes, which fit into the ceiling, are an economical and effective way of air conditioning open areas with high occupancy or traffic, such as shops, walkways, and restaurants. Usually located centrally within an air conditioned space they do not use up valuable wall space. Suited to ceilings up to 4.2m high they provide excellent general air conditioning.

## Features

- Optional motion sensor for power saving.
- Low voltage drain pump removes water from drain pan.
- One touch panel opening for filter cleaning.
- Four air volume settings, now includes 'Ultra Hi' allowing for higher ceiling heights.
- 4-way airflow as standard but can be configured to 2 or 3-way.

See **page 6** for detailed features on this unit.



Model: Indoor Unit	RCI-1.0FSN3	RCI-1.5FSN3	RCI-2.0FSN3	RCI-2.5FSN3	RCI-3.0FSN3	RCI-4.0FSN3	RCI-5.0FSN3
General Specifications							
Capacity							
Nominal Cooling Capacity (kW)	2.8	4.0	5.6	7.1	8.0	11.2	14.0
Nominal Heating Capacity (kW)	3.2	4.8	6.3	8.5	9.0	12.5	16.0
Airflow							
Air Flow (l/s) 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 & weights							
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 Panel Model	P-AP160NA1 (without motion sensor) / P-AP160NAE (with motion sensor)						
Panel Size (mm) (H x W x D mm)	37 x 950 x 950						
Colour	Natural White						
Sound Pressure Level							
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
Installer Specifications							
Power Supply							
Power Supply	AC 1Ph 220 ~ 240V 50Hz						
Installation							
Connections	Flare-Nut Connection						
Pipe Connection Sizes: Liquid / Gas (mm)	6.35 / 12.70	6.35 / 12.70	6.35 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88

1. 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.

## Compact 4-Way Cassette

Compact cassettes are easily installed in restricted spaces e.g. within false ceilings - with a height of only 295mm these are some of the smallest in the market. At 570mm x 570mm these compact cassettes are designed to fit within a 600mm ceiling grid.

## High Ceiling Applications

These models are designed to be suitable 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.



Model: Indoor Unit	RCIM-1.0FSN2	RCIM-1.5FSN2	RCIM-2.0FSN2
General Specifications			
Capacity			
Nominal Cooling Capacity (kW)	2.5	3.6	5.0
Nominal Heating Capacity (kW)	2.8	4.0	5.8
Airflow			
Air Flow (l/s) Hi / Med / Low	217 / 200 / 183	250 / 225 / 200	267 / 233 / 200
Dimensions & weights			
Dimensions (H x W x D mm)	295 x 570 x 570	295 x 570 x 570	295 x 570 x 570
Weight (kg)	17	17	17
Adaptable Air Panel Model	P-N23WAM		
Panel Size (mm) (H x W x D mm)	35 x 700 x 700		
Colour	Gypsum White		
Sound Pressure Level			
Sound Pressure Level dB(A) (Hi / Med / Low)	36 / 34 / 32	38 / 35 / 33	42 / 39 / 37
Installer Specifications			
Power Supply			
Power Supply	AC 1Ph 220 ~ 240V 50Hz		
Installation			
Connections	Flare-Nut Connection		
Pipe Connection Sizes: Liquid / Gas (mm)	6.35 / 12.70	6.35 / 12.70	6.35 / 15.88

1. 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.



## 2-Way Cassette

Suitable for installation in wide walkways and locations best suited to a two way air supply.

## Easy to Install

A compact turbo fan simplifies the structure and reduces the height to 298mm.

## Quiet Operation

The three dimensional twisted wings of the compact turbo fan greatly reduces noise from the cassette unit.

## More Compact Unit

To give you greater installation flexibility the 8.0kW unit has nearly halved in volume, is 30kg lighter and the length has shortened from 1320mm to 860mm.



Model: Indoor Unit	RCD-1.0FSN2	RCD-1.5FSN2	RCD-2.0FSN2	RCD-2.5FSN2	RCD-3.0FSN2	RCD-4.0FSN2	RCD-5.0FSN2
General Specifications							
Capacity							
Nominal Cooling Capacity (kW)	2.8	4.0	5.6	7.1	8.0	11.2	14.0
Nominal Heating Capacity (kW)	3.2	4.8	6.3	8.5	9.0	12.5	16.0
Airflow							
Air Flow (l/s) Hi / Med / Low	166 / 150 / 133	217 / 183 / 150	250 / 217 / 183	317 / 267 / 233	317 / 267 / 233	483 / 400 / 350	567 / 483 / 417
Dimensions & weights							
Dimensions (H x W x D mm)	298 x 860 x 620	298 x 860 x 620	298 x 860 x 620	298 x 860 x 620	298 x 860 x 620	298 x 1420 x 620	298 x 1420 x 620
Weight (kg)	27	27	27	30	30	48	48
Panel Model	30 x 1100 x 710					30 x 1660 x 710	
Panel Size (mm)	P-N23DNA					P-N46DNA	
Colour	Natural White						
Sound Pressure Level							
Sound Pressure Level dB(A) (Hi / Med / Low)	34 / 32 / 30	35 / 32 / 30	35 / 32 / 30	38 / 34 / 31	38 / 34 / 31	40 / 36 / 33	43 / 40 / 36
Installer Specifications							
Power Supply							
Power Supply	AC 1Ph 220 ~ 240V 50Hz						
Installation							
Connections	Flare-Nut Connection						
Pipe Connection Sizes: Liquid / Gas (mm)	6.35 / 12.70	6.35 / 12.70	6.35 / 15.88	9.53 / 15.88	9.53 / 15.88	9.53 / 15.88	9.53 / 15.88

1. 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: 75 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

This unit is commonly installed in locations such as clubs, pubs and cafeterias. Ideal for retrofit or limited ceiling void.

## Improved Airflow

Air is evenly distributed by an efficiently designed auto louvre. The rounded lower exit of the air opening has been designed for quieter operation.

## Noise Reduction

A more efficiently designed interior has reduced air-flow resistance enabling better efficiency at lower fan speeds, therefore reducing noise and vibration.

## Motion Sensor Control

The option of a motion sensor is available to eliminate unnecessary operation and increase efficiency.



Model: Indoor Unit	RPC-1.5FSN3	RPC-2.0FSN3	RPC-2.5FSN3	RPC-3.0FSN3	RPC-4.0FSN3	RPC-5.0FSN3
General Specifications						
Capacity						
Nominal Cooling Capacity (kW)	4.0	5.6	7.1	8.0	11.2	14.0
Nominal Heating Capacity (kW)	4.8	6.3	8.5	9.0	12.5	16.0
Airflow						
Air Flow (l/s) UHi / Hi / Med / Low	250 / 217 / 183 / 150	250 / 217 / 183 / 150	316 / 275 / 233 / 192	350 / 308 / 258 / 208	500 / 442 / 367 / 283	583 / 517 / 425 / 333
Dimensions & weights						
Dimensions (H x W x D mm)	235 x 960 x 690	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)	26	27	35	35	41	41
Cabinet Colour	Silky White					
Sound Pressure Level						
Sound Pressure Level dB(A) (Hi / Med / Low)	37 / 35 / 31 / 28	38 / 35 / 31 / 28	38 / 35 / 31 / 28	40 / 37 / 33 / 29	44 / 42 / 37 / 32	48 / 45 / 41 / 35
Installer Specifications						
Power Supply						
Power Supply	AC 1Ph 220 ~ 240V 50Hz					
Installation						
Connections	Flare-Nut Connection					
Pipe Connection Sizes: Liquid / Gas (mm)	6.35 / 12.70	6.35 / 15.88	9.53 / 15.88	9.53 / 15.88	9.53 / 15.88	9.53 / 15.88

1. 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 Units (RAS)

## Efficient System

### New Inverter Compressor

Improving the inverter compressors intermediate capacity has allowed for higher energy savings. A new shaft mechanism and improved inverter motor have increased low speed operation performance.

### Improved Heating Performance

Three new pieces of technology have been adopted to improve heating performance:

**Hot gas bypass.** Precise electronic control allows spare capacity to be passed through the outdoor coil when required, increasing its temperature and reducing frost build up (RAS 4-6).

**Slitless fin.** Increases fin surface area and improves water removal from coil before it is able to form as frost.

**Defrost time fuzzy logic.** Measures the last defrost time and automatically adjusts to increase time between defrosts and remove unnecessary defrost cycles.

The net result of these developments is approximately a 40% increase in the time spent heating between defrost cycles - vastly improving comfort in winter.

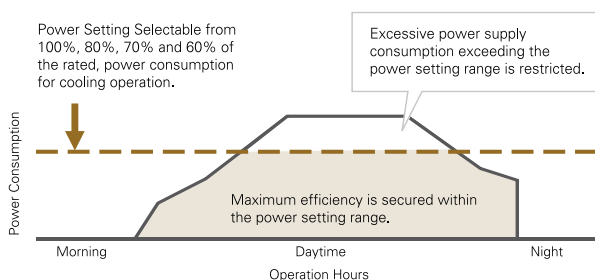
## Energy Savings

On top of being highly efficient, Hitachi Premium Inverter models offer two additional ways to configure systems to achieve even greater energy savings

### Self-Demand Control

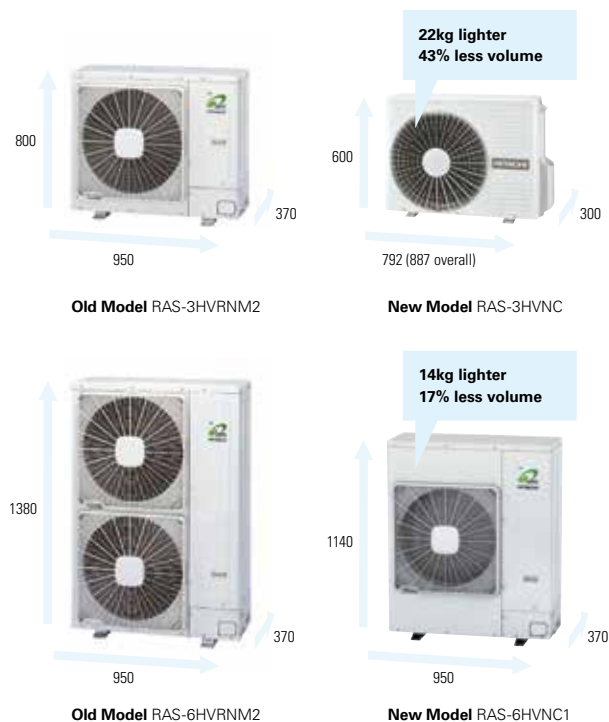
Power consumption (as a % of max.) can be selected by the owner in advance. With an external command during operation the system will automatically detect the amount of power being used, and limit itself to the predetermined amount during peak power usage times.

#### Self-Demand Control



## New Compact Units

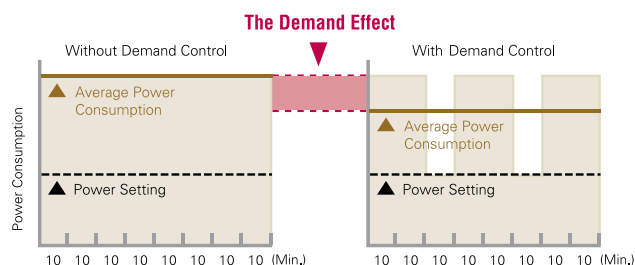
Outdoor units are now more compact in size creating greater flexibility when it comes to installing the unit as they take up less outdoor space.



## Wave Mode

When activated by external command, this function cycles the system between full power and a reduced power setting (pre selected by the user) every 10 to 20 minutes until the external command is deactivated. Wave mode results in a lower average power usage, and therefore a cost saving. Again the reduced power setting is selected in advance.

#### Wave Mode (DRED)





Model	RAS-2HVNP	RAS-2.5HVNP	RAS-3HVNC	RAS-4HVNC1	RAS-5HVNC1	RAS-6HVNC1
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## General Specifications

### Capacity

Nominal (min.-max.) Cooling Capacity (kW)	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 (min.-max.) Heating Capacity (kW)	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. IU's Connectable (min. / max.)	2 / 2	2 / 2	2 / 2	2 / 4	2 / 4	2 / 4
IU 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 Largest IU Cap. : Smallest IU Cap.	2 : 1	2 : 1	2 : 1	2 : 1	2 : 1	2 : 1

### Sound Pressure Level

Sound Pressure (dBA) Cool / Heat / Sleep	44 / 46 / 42	45 / 47 / 43	48 / 50 / 46	52 / 54 / 50	52 / 54 / 50	55 / 57 / 53
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### Dimensions & weights

Height x Width x Depth (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
Weight (kg)	41	41	44	79	89	89
Cabinet	Synthetic Resin Paint Baked on Galvanised Steel Plate					

### Working Range - Cooling and heating range is extendable, consult temperzone.

Cooling (°C)	-5 ~ +46	-5 ~ +46	-5 ~ +46	-5 ~ +46	-5 ~ +46	-5 ~ +46
Heating (°C)	-20 ~ +15	-20 ~ +15	-20 ~ +15	-20 ~ +15	-20 ~ +15	-20 ~ +15

## Installer Specifications

### Piping

Pipe Connection Sizes: Liquid / Gas (mm)	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) (OU above / OU below)	30 / 20	30 / 20	30 / 20	30 / 20	30 / 20	30 / 20
Refrigerant Flow Control	Micro-Computer Control Expansion Valve					

Condenser Fan Quantity	1	1	1	1	1	1
Condenser Fan Air Flow Rate (l/s)	677	677	745	1033	1133	1333

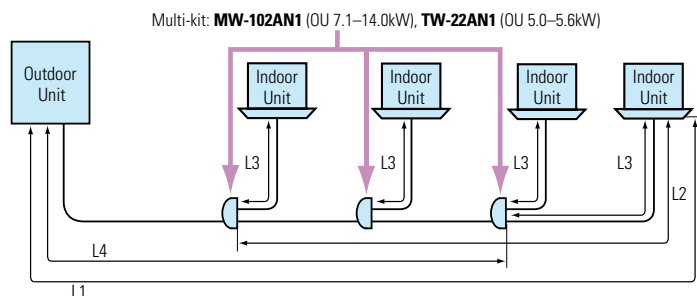
### Electrical

Power Supply	AC 1PH 220 ~ 240V 50Hz					
OU Max Current (A)	12	14	16	26	26	26
Interconnection Wires mains	0.75mm <sup>2</sup> 2C+E (min.)					
Interconnection Wires comms	0.75mm <sup>2</sup> 2 Core Twisted Shielded					

**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: 75 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.

## Multiple Connection Line Branch

thinking of you



Model - OU	5.0kW	5.6kW	7.1kW	10.0kW	12.5kW	14.0kW
Maximum piping length: L1	50 m	50 m	50 m	70 m	75 m	75 m
Piping length between 1st branch and furthest IU: L2	≤ 10 m	≤ 10 m	≤ 10 m	≤ 20 m	≤ 20 m	≤ 20 m
Piping length between a branch and its corresponding IU: L3	≤ 10 m	≤ 10 m	≤ 10 m	≤ 10 m	≤ 10 m	≤ 10 m
Total piping length: Sum of all L3 + L4	≤ 50 m	≤ 50 m	≤ 60 m	≤ 70 m	≤ 75 m	≤ 75 m

# Controls

## Intelligent Controls

Hitachi offers a range of stylish LCD wall-mounted and handheld controllers suited to both commercial and residential applications.

**HI** H-Link I compatible only

**HI** H-Link I & II compatible



**HI**  
**16** Indoors

### 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



**HI**  
**16** Indoors

### 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



**HI**  
**16** Indoors

### 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



**5S A64S**  
**HI HI**  
**6 64** Groups  
**128 160** Indoors

### PSC-5S/PSC-A64S Central Controller

- Provides individual control (mode, temp., fan speed, etc.) of multiple indoor units.
- Controls up to 6/64 groups of units (max. 128/160 indoors).
- External inputs/outputs for: central stop/run input, emergency stop input, demand control (DRED) input, central operation output and central alarm output.



**HI**  
**64** Groups  
**160** Indoors

### PSC-A1T Central 7 Day Timer

- Controls up to 64 groups of units (max. 160 indoors).
- 3 intervals programmable per day for each group
- Separate winter and summer schedules can be preset
- Power failure backup remembers settings for 2 weeks
- Use with PSC-5S/PSC-A64S only



**HI**  
**64** Groups  
**160** Indoors

### Central Station EZ

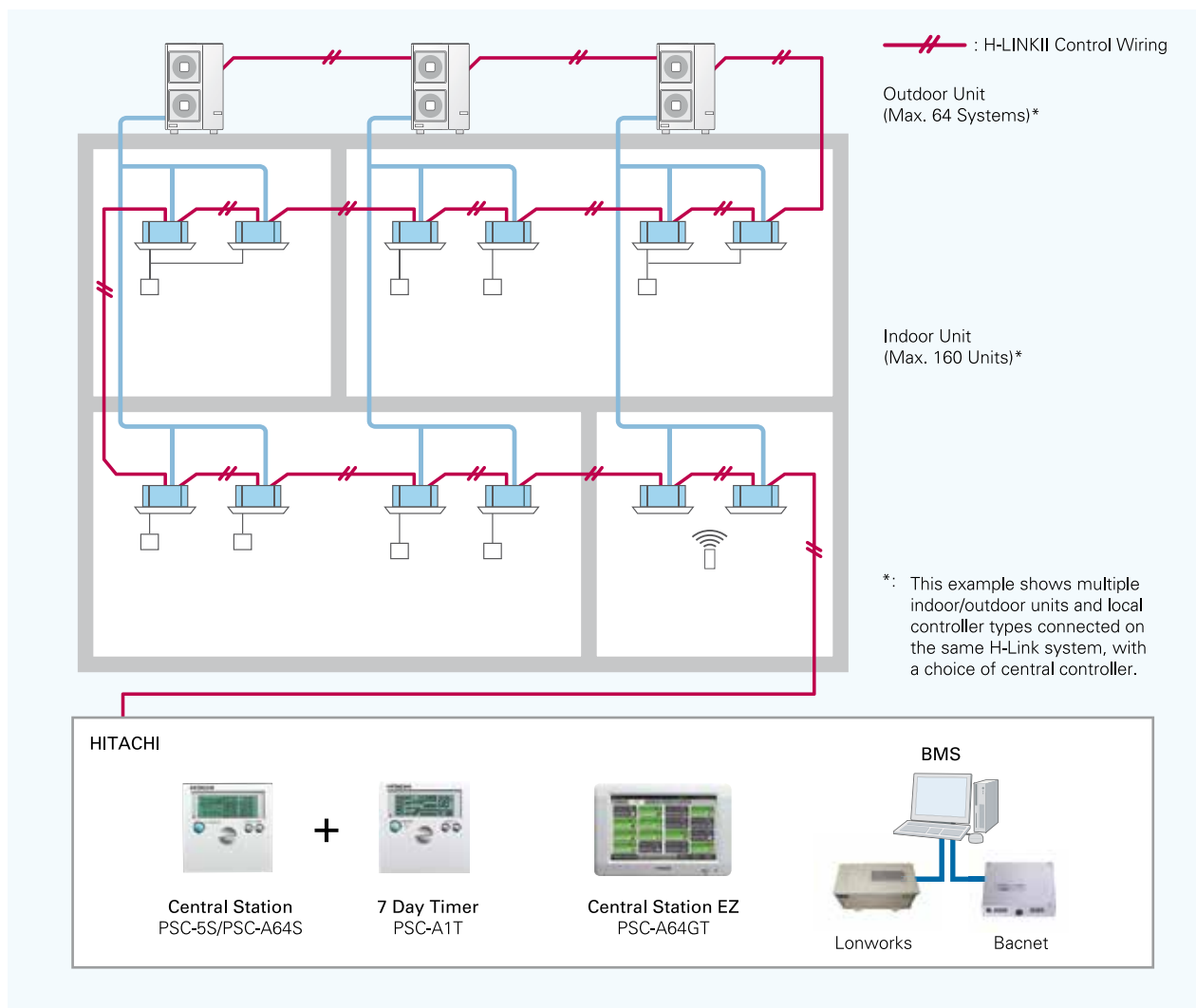
- Touch screen with easy user interface
- Controls up to 64 groups of units (max. 160 indoors).
- Controls temp., mode, fan speed, etc. for all units individually
- Records accumulated operation time for simple tenant billing
- External input and output contacts
- Set up to 10 on/off times per day
-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

# H-Link

## H-LINK

H-Link II is a unique Hitachi communication system which can be used to control multiple outdoor and indoor units from one control point. It's use assists installers and service engineers by simplifying commissioning and service maintenance. For building owners and occupiers, it provides great versatility to connect various types of central control options giving better system management.

Hitachi VRF, Split Systems, Chillers and even Wall Mounts (via an interface card) can be connected to H-Link II.



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# Installation Accessories



## Temperzone Grilles and Diffusers

Temperzone offers the full range of air distribution products allowing the flexibility to formulate customised solutions to meet all of your air distribution requirements. As one of the largest and longest serving designers and manufacturers of air distribution equipment to New Zealand, temperzone's products and solutions are at the forefront of the air distribution industry.

Visit **[www.temperzone.biz](http://www.temperzone.biz)** for further information.



## Krantz Diffusers

Krantz Komponenten in Germany, has been an international leader in the design and manufacturing of specialised air diffusion products for over 35 years. Through Temperzone, Krantz offers the full range of high performance air diffusion products to suit all applications.

Visit **[www.temperzone.biz](http://www.temperzone.biz)** for further information.



## Temperzone Flexiduct

Temperzone Flexiduct is flexible ducting that meets the NZ Building Code Standard and is certified to AS 4254 and ISO 9705. AS 4254 is the Australian Standard for ductwork of air-handling systems in buildings. ISO 9705 is full scale room fire testing of internal surfaces for HVAC systems. Flexiduct is available in a variety of sizes and two types: Nude (uninsulated) and Insulated.

Visit **[www.temperzone.biz](http://www.temperzone.biz)** for further information.



## Temperzone Plenums & Duct Accessories

Temperzone is a one stop shop for all your ducting needs. Temperzone stock a wide range of standard plenums. Stocked accessories include a range of branch take offs, inline dampers, duct joiners, opposed blade dampers and square to round adaptors.

**Contact Temperzone** for further information.



## Pre-Insulated Copper Piping

Temperzone pre-insulated copper piping is a premium product. It is M Rated meeting European safety standards therefore qualifying it for installation in Green Star Buildings. The foam insulation has been created using non ozone depleting gas and it's produced using high quality copper. It comes in a range of sizes and lengths to suit.

**Contact Temperzone** for further information.



## Lokring

Vulkan Lokring has produced solder-free tube connection technology for refrigerant lines for more than 30 years. By eliminating welding, many overhead costs relating to safety, personnel, equipment and supplies, inspection rework, and monitoring can be eliminated or substantially reduced. Lokring tube connection can be made without a great deal of effort. All you need is a Lokring tube connection, a hand assembly tool and some Lokprep.

**Contact Temperzone** for further information.



# Remote Input/Output

## Default Inputs (Open/Closed)

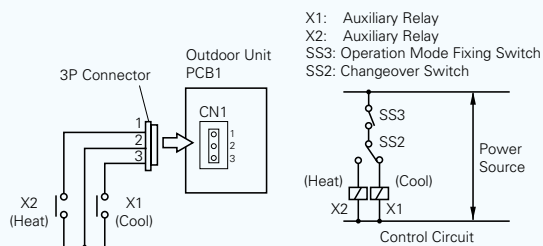
1. Fix into heating: CN1 (1+2)
2. Fix into cooling: CN1 (2+3)
3. Demand Stoppage (0% Capacity): CN2 (1+2)

### Wiring Diagram Example of Fixing Operation Mode

Setting Example

Fixing Heating Operation at Input 1 (between 1 and 2 pins of CN1)

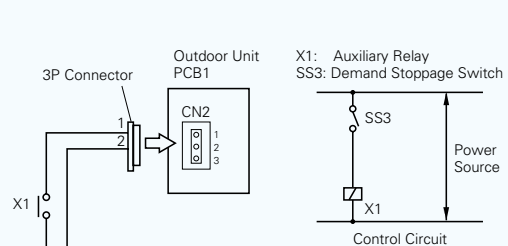
Fixing Cooling Operation at Input 2 (between 3 and 2 pins of CN1)



### Wiring Diagram Example of Demand Stoppage

Setting Example

Demand Stoppage at Input 3 (between 1 and 2 pins of CN2)



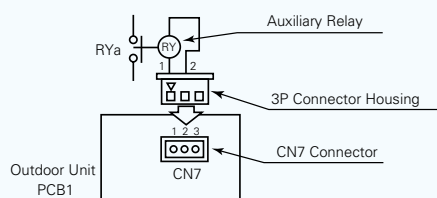
## Default Outputs (12V DC)

1. Operation: CN7 (1+2)
2. Alarm: CN7 (2+3)

### Wiring Diagram Example of Operation Signal

Setting Example

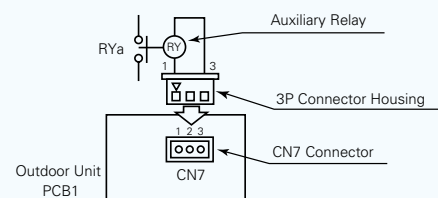
Operation Signal at Output 1 (between 1 and 2 pins of CN7)



### Wiring Diagram Example of Alarm Signal

Setting Example

Alarm Signal at Output 2 (between 1 and 3 pins of CN7)



## Other Inputs Available (Requires Programming)

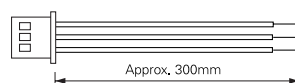
- Forced Stoppage (All Stop)
- Demand (capacity) Control 40% / 60% / 70% / 80% / 100%

## Other Outputs Available (Requires Programming)

- Compressor On
- Defrost

## Plug Required

PCC-1A (171-000-241)



# Hitachi Duct EZY

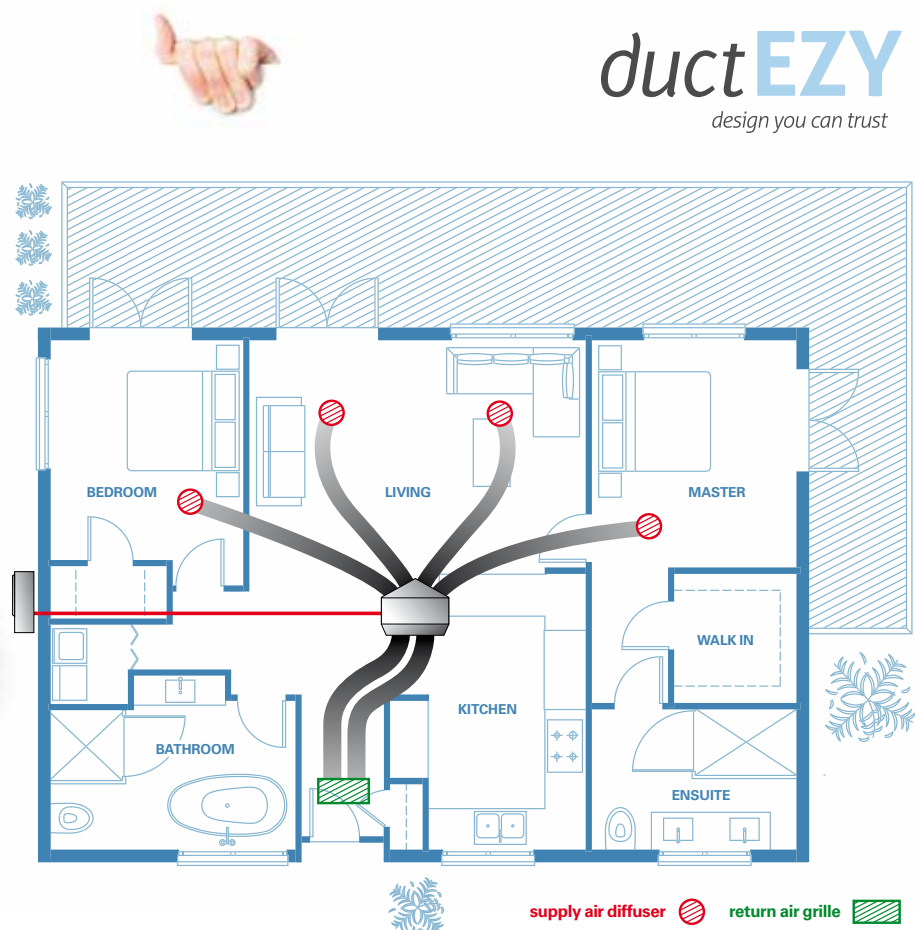


## Duct EZY

Designing a ducted system is a specialised and very technical process. Duct EZY takes away the need for this by providing a professionally designed package complete with a specifically engineered duct kit to ensure optimum performance. Now you can afford quality home or office ducted air conditioning without the additional cost of a custom designed system.

Duct EZY is luxury air conditioning that is neither seen or heard with air diffusers discreetly situated within your home and installed sound levels better than equivalent capacity wall mounted heat pumps.

Visit [www.hitachiheatpumps.co.nz](http://www.hitachiheatpumps.co.nz) for further information.



# Other Hitachi Air Conditioning Products



## Split System Inverter Heat Pumps

These wall and floor mount 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.

Visit [www.hitachiheatpumps.co.nz](http://www.hitachiheatpumps.co.nz) for further information.



## Multi-Split Inverter Multizone Heat Pumps

A Hitachi Multizone System is a Heat Pump that combines one outdoor unit with multiple indoor units. Different styles of indoor units of varying heating and cooling capacity can be connected – dependent on the number of rooms and their size and shape.

Multizone is ideal for heating your lounge and some of the bedrooms or if you have a commercial area with several small offices you need to cool.

Visit [www.hitachiheatpumps.co.nz](http://www.hitachiheatpumps.co.nz) for further information.



## Multi-Split Set Free FSXN VRF

The Hitachi Set Free system is designed for larger buildings. Hitachi Set Free utilises Heat Recovery Operation so as to provide for heating and cooling at the same time or it can be supplied as a 2 Pipe Single Mode System. This state of the art sophisticated system will meet the specification requirements of any modern day building.

Contact **Temperzone Ltd** for further information.

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Temperzone Ltd, a Kiwi company established in 1956, distributes Hitachi Heat Pumps throughout New Zealand and is the largest air conditioning manufacturer and exporter in Australasia. Hitachi Heat Pumps from temperzone have a 6 year warranty on all parts and labour\* - New Zealand's longest. It's a comfort to know temperzone confidently guarantee's the quality of these products.

\*Refer to Hitachi Warranty for full details

Your local Hitachi dealer: