4-way Ceiling Cassette

Cooling & Heating

HITACHI

air

Creating truly comfortable living spaces.

We want to help you find the air conditioner that best suits your lifestyle. Our partnership with **temperzone** combines innovative global products with local knowledge and support to meet your needs faster, smarter and more responsibly than ever before.

WIDE AMBIENT OPERATING RANGE
RCI / RAS: -20°C – 46°C
RAI / RAS: -15°C – 46°C

CONTROL

6 YEAR WARRANTY

4 WAY AIR FLOW

FRESH AIR INLET

Ceiling Cassette Systems

Delivering big results for small spaces

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

Incorporating DC technology, our cassette range features inverter control and the ability to achieve superior operating efficiency.

Ranging in Cooling capacity from 5kW to13kW the range delivers the level of comfort, convenience, and reliability that you've come to expect from Hitachi.

4-way airflow cassettes are an economical and effective way of air conditioning open areas with high occupancy or traffic, such as shops, walkways, and restaurants.

FLEXIBLE
DESIGN

EASY
MAINTENANCE

AUTO RESTART

4-WAY
CASSETTE

INDIVIDUAL
LOUVER CONTROL
RCI models capable of
individual louver control

CONTROL
Stylish local controllers.
Auto restart function.
Connection to VRF central
controllers.

WARRANTY
COMMERCIAL AND
RESIDENTIAL

The flexibility of a Hitachi cassette

One of the most compact cassettes on the market 570 x 570mm. The mini cassette can be embedded within one ceiling tile total dimension with fasia panel is 620X620mm. Lights or other installations are able to be installed in the adjoining ceiling tiles.

COMPACT 4-WAY CASSETTE (RAI) R32

With a height of only 285mm, these cassettes are some of the smallest on the market.

Standard wall controller:
SPX-WKT3 controller

R32
REFRIGERANT

4-WAY CASSETTE (RCI) R410

Overall dimension of 840X840mm and height of 298mm.

Standard wall controller:
PC-ARF1 controller

R410A
REFRIGERANT

STANDARD TO HIGH CEILING APPLICATION

These models are designed for standard to high ceiling applications.

EFFICIENT DRAIN PUMP

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

FEATURES AND BENEFITS

- Compact models making them Ideal for small to medium sized commercial areas such as offices, restaurants and retail.

- The new panel is fully embedded within one ceiling tile. Lights or other installations are able to be installed in the adjoining ceiling tiles.

- High heating capacities at low temperatures.

- Cooling & Heating capacities from 5.0kW to 13.0kW cooling.

- Each louver of the cassette can be individually controlled for a comfortable air flow and an adaptability to all room configurations.

- All Hitachi's units offer high seasonal efficiencies.

- Larger models pre-charged to 30m.

CONTROLLERS

- Large screen and simplified button layout.
- Controls temp, mode, fan speed, etc.
- 7-day timer with multiple set points.
- Multiple units can be operated with one controller.
- Room name and service company name programmable .
- Help menus and error code diagnosis.
- Eco mode (SPX-WKT3).
- Room temperature display.

SPX-WKT3

RAI Models only

PC-ARF1

RCI Models only

Powerful and Flexible

High air flow, up to 4.2m on larger RCI models.

NEW ANTIBACTERIAL AGENT*

An internal low-voltage drain pump 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 drain diameter assists in more efficient drainage.

*Only applicable to RCI models.

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.

ONE-TOUCH PANEL

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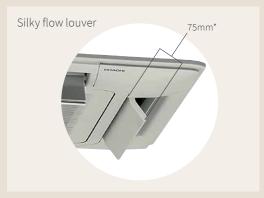
MOTION SENSOR*

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.

*Optional panel. Only applicable to RCI models.

Antibacterial low voltage drain pump

Silky flow louver

75mm*

*RCI models are 75mm.
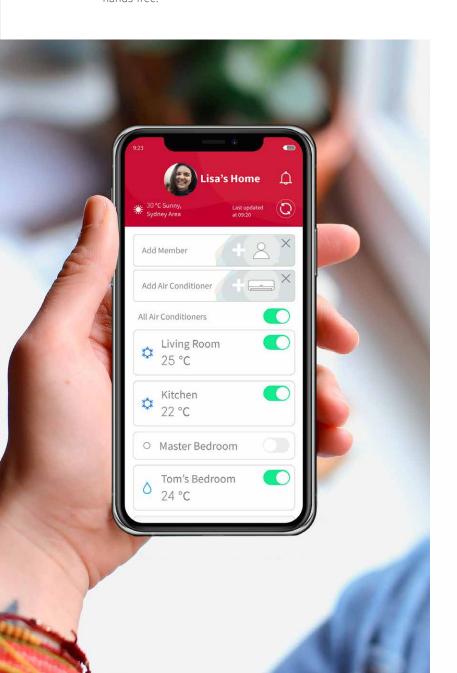
airCloud Home

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

CONTROL FROM ANYWHERE

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

CONTROL WITH YOUR VOICE

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

AIRCLOUD FEATURES

- On / Off Operation
- ALL Units OFF
- Operation Mode Selectable
- Temperature Adjustment
- Smart Speaker (Google Assistant & Amazon Alexa)
- Weekly Scheduling
- On / Off Timer
- Adjustable Louvre
- Fan Speed
- OTA Firmware Updates
- Account Management
    - Share access with up to 10 users
    - Set up user permissions
- Customer Support
- Personalisation - Indoor unit naming
- Smart Notifications

NOTE: airCloud Home is only available with RAI models.

9:23

Lisa's Home

30 °C Sunny, Sydney Area
Last updated at 09:20

Add Member

Add Air Conditioner

All Air Conditioners

Living Room
25 °C

Kitchen
22 °C

Master Bedroom

Tom's Bedroom
24 °C

JUST ASK alexa

works with the Google Assistant

Compatible with Android devices version 4.3 and above and IOS 8.0 and above.

Ceiling Cassette Systems
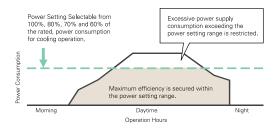
SELF-DEMAND CONTROL*

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.
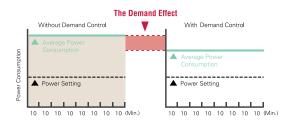
* RCI / RAS models.

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.

Self-Demand Control

Power Setting Selectable from 100%, 80%, 70% and 60% of the rated, power consumption for cooling operation.

Excessive power supply consumption exceeding the power setting range is restricted.

Power Consumption

Maximum efficiency is secured within the power setting range.

Morning   Daytime   Night

Operation Hours

Wave Mode (DRED)

The Demand Effect

Without Demand Control   With Demand Control

Power Consumption

▲ Average Power Consumption

▲ Power Setting

▲ Average Power Consumption

▲ Power Setting

10 10 10 10 10 10 10 10 (Min.)   10 10 10 10 10 10 10 10 (Min.)

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.

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.

STYLISH REMOTE CONTROLLERS

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

Indoor 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.
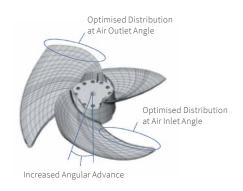
SLITLESS FIN HEATING PERFORMANCE

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

INSTALLATION AND FLEXIBILITY

Changing the way that everybody thinks 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.

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.

PC-ARF1
Wall Controller

Green light indicator for ON

Controller for RCI models (PC - ARF1).

Optimised Distribution at Air Outlet Angle

Optimised Distribution at Air Inlet Angle

Increased Angular Advance

Advancements in technology

COMPACT AND LIGHT

Effective design and downsizing has led to a reduction in the footprint compared with previous models. This has made installation easier and improved maintenance access.

OUTDOOR UNITS

750

600

1140

298

300

370

850

792

950

RAC E50 - 5kW
RAC E60 - 6kW

RAS 3.0 - 7.1kW

RAS 4.0 - 10kW
RAS 5.0 - 12.5kW
RAS 6.0 - 13.0kW

Ceiling Cassette Systems

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H-Link

H-Link II is a unique Hitachi communication system that can control multiple outdoor and indoor units from one location.
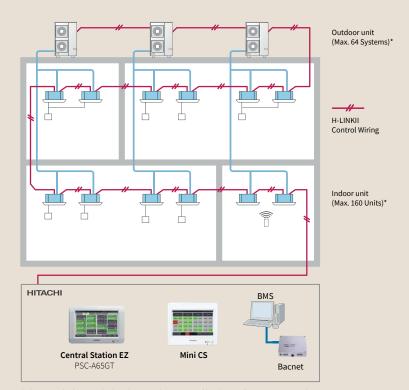
It simplifies commissioning and service maintenance for installers and service engineers, and enables owners and occupiers to enjoy better system management through the ability to connect various types of central control options.

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

INTELLIGENT CONTROLS

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

Applicable to RCI models only.

Outdoor unit
(Max. 64 Systems)*

H-LINKII
Control Wiring

Indoor unit
(Max. 160 Units)*

HITACHI

BMS

Central Station EZ
PSC-A65GT

Mini CS

Bacnet

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

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Features and options comparison table

	COMPACT 4-WAY CASSETTE (RAI) R32	4-WAY CASSETTE (RCI) R410
	5.0 - 6.0kW	7.1-13kW
Silky flow louver	●	●
One touch panel	●	●
Efficient drain pump	●	●
Motion sensor / Human sensor	–	■
Fresh Air	–	■
H-Link II system	■	●
PC-ARF1 wired controller	–	■
SPX-WKT3 wired controller	●	–
SPX-RCDB wired controller (simplified)	■	–
SPX-RCKA3 controller (infra red)	■	–
Remote Stop / Start Accessory	■	■
airCloud Home Wifi control	■	–

● STANDARD
■ OPTIONAL
– NOT AVAILABLE

4 Way Cassette (One-to-One) Comparison Chart

Model - Indoor / Outdoor Unit	RAI-E50 / RAC-E50YHA	RAI-E60 / RAC-E60YHA
General Specifications		
Capacity (kW)		
Cooling Capacity	5.0	6.0
Cooling Capacity Range	1.2 - 5.8	1.2 - 6.5
Heating Capacity	6.0	7.0
Heating Capacity Range	1.2 - 6.5	1.2 - 8.0
Energy Efficiency		
EER / AEER	3.5 / 3.48	3.42 / 3.40
COP / ACOP	3.87 / 3.85	3.61 / 3.59
Air Flow (l/sec)		
UHi / Hi / Med / Low	216 / 191 / 166 / 125	216 / 191 / 166 / 125
Dimensions		
Indoor Unit: (H x W x D mm) (Height excludes fascia panel)	285 x 570 x 570	285 x 570 x 570
Outdoor: (H x W x D mm)	750 x 850 x 298	750 x 850 x 298
Weights: Indoor kg / Outdoor kg	17 / 50	17 / 50
Sound Pressure Level (dB(A))		
Indoor Unit (UHi / Hi / Med / Low)	43 / 39 / 35 / 29	43 / 39 / 35 / 29
Outdoor Unit (Cool / Heat / Night)	50 / 53 / -	50 / 53 / -
Sound Power	63	63
Working Range (°C db)		
Cooling	-10° / 46°C	
Heating	-15° / 24°C	
Fascia Panel Model	STANDRD PANEL P - AP56NAM	
Wired Controller (Standard)	SPX - WKT	
Infrared Controller / Receiver (Optional)	SPX - RCKA2	
3 Way Outlet kit (Optional)	N / A	
Fresh Air Inlet (Optional)	N / A	
Remote Input / Output Plug (Optional)	SPX - WCD8	
HI Link Apaptor	PSC - 6RAD	
Piping		
Pipe Connection Sizes: Liquid Ømm / Gas Ømm	6.35 / 12.70	6.35 / 12.70
Max Pipe Length (m)	30	30
Max Pre Charged Length (m)	30	30
Max Pipe Lift (m)	20	
Refrigeration Connections (Indoor / Outdoor)	Flare Nut / Flare Nut	
Electrical		
Power Supply	AC 1 Ph 220 - 240V 50Hz	
Outdoor Unit Max Current (Amps)	10.5	10.5

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:

RCI-3.0FSN3 / RAS-3HVNC	RCI-4.0FSN3 / RAS-4HVNC1	RCI-5.0FSN3 / RAS-5HVNC1	RCI-6.0FSN3 / RAS-6HVNC1
7.1	10.0	12.5	13.0
3.2 - 8.0	4.5 - 11.2	5.7 - 14.0	6.0 - 16.0
8.0	11.2	14.0	16.0
3.5 - 10.6	5.0 - 14.0	5.0 - 18.0	5.0 - 20.0
3.48 / 3.33	3.72 / 3.55	3.29 / 3.12	3.15 / 3.00
3.70 / 3.52	4.51 / 4.25	3.84 / 3.63	3.61 / 3.44
450 / 383 / 300 / 233	617 / 517 / 400 / 333	617 / 550 / 443 / 350	617 / 583 / 467 / 367
298 x 840 x 840	298 x 840 x 840	298 x 840 x 840	298 x 840 x 840
600 x 792 x 300	1140 x 950 x 370	1140 x 950 x 370	1140 x 950 x 370
26 / 44	26 / 79	26 / 89	26 / 89
42 / 36 / 32 / 28	48 / 43 / 39 / 33	48 / 45 / 40 / 35	48 / 46 / 41 / 37
48 / 50 / 46	52 / 54 / 50	52 / 54 / 50	55 / 57 / 53

-5° / 46°C

-20° / 15°C

P-AP160NA1 (Std - Exc Motion Sensor) / P-AP160NAE (Optional - Inc Motion Sensor)

PC-ARF

PC- AWR / PC- ALH3

PI-160LS1

PD-75A

PCC-1A

RCI-3.0FSN3 / RAS-3HVNC	RCI-4.0FSN3 / RAS-4HVNC1	RCI-5.0FSN3 / RAS-5HVNC1	RCI-6.0FSN3 / RAS-6HVNC1
9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88
50	70	75	75
20	30	30	30

30

Flare Nut / Flare Nut

AC 1 Ph 220 - 240V 50Hz

| 16 | 26.3 | 26.4 | 26.4 |

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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6 YEAR WARRANTY ON PARTS AND LABOUR*

6 YEARS

6 YEAR
WARRANTY

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▶ in f

* Refer to NZ Hitachi Warranty for full conditions.

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