SideSmart™

Variable Refrigerant Flow system
Slim Modular outdoor units
Air source heat pump type

HITACHI

Cooling & Heating

Air.
It's a wonderful thing.

Invisible, silent and life-giving, air makes our entire world possible. It surrounds us, continuously energizing, cooling and warming. It can be unpredictable and sometimes challenging, but when air is in harmony with us, everything seems that much easier.

This is our vision. To create the air that makes life better. in VRF, exclusive FrostWash™ technology will clean the coil without effort.

Living Harmony

At Hitachi Cooling & Heating we like to think of this as creating harmony with your interior environment. When we achieve that wonderful balance, productivity, learning, happiness and health can thrive. We call this 'Living Harmony' and it's at the center of everything we do.

The future together

Living Harmony puts people first. By balancing the human needs of our customers with an uncompromising approach to innovation and quality, we can continue to create the technologies for a more comfortable and balanced world. Your world. We live in it together.

The beauty of balance

No matter what the weather is like outside, when you're indoors, you want to have complete control over your environment. At work or play, awake or asleep, you're free to create your own atmosphere; balancing energy with calm, sound with silence and light with shade.

It's the same for cooling and heating. When the air around you is in balance, you can enjoy life indoors that much more.

Index

10 reasons
to choose
Hitachi VRF

Worlwide trusted band

Engineered with precision in Japan, Hitachi has been one of the best-selling VRF brands around the world since our first launch in 1983.

HVAC professionals: We care about you

Each of our VRF equipment is carefully designed for ease of installation and maintenance. Piping routes, access to components, condensate management ... our products make your job easy!

Advanced features, more comfort for the occupants

From exclusive GentleCool temperature control function to 4-way cassette with individual louver control, our VRF systems embed various features to enhance the well-being of occupants, based on their needs.

Welcome to our "Central Stations"

Hitachi Cooling & Heating's best-in-class & acclaimed range of centralized controllers makes VRF system control easy. Our various Central Stations models can suit all types of user profiles and system sizes, so that every operator can control and adjust operations as they wish.

SmoothDrive™: patented technology for unique benefits

Our exclusive SmoothDrive™ VRF compressor control technology provides unrivaled efficiency and comfort. Our systems meet the most stringent energy efficiency regulatory standards. But they do more than that. Thanks to SmoothDrive™, you can save more energy during partial load conditions, reflecting the real life usage of VRF systems. When some indoor units are turned off, when the outdoor temperature changes, when the indoor temperature reaches comfortable level ... SmoothDrive™ provides extra savings and comfort, for which Hitachi VRF was awarded with energy-efficiency prizes in Japan.

airCloud pro, the new generation of monitoring (exclusive!)

From your smartphone or web, manage your VRF systems in full simplicity. Operators can select zones and adjust AC operation, or track systems errors remotely. **air**Cloud Pro can accomodate an unlimited number of VRF systems and an unlimited number of users.

airCloud Select (upcoming)

Thanks to our Selection Software, systems engineers can customize their air conditioning selection for each project. With our training material and **air**Cloud Select, professionals can confidently meet their clients' requirements.

A solution for every project

From small shops to skyscrapers, from snowy days to scorchers, there's always a Hitachi VRF solution for you. Our offer provides great flexibility with several options when it comes to: multiple types of outdoor units and indoor units, piping distance, adaptive external static pressure, best-in-class CH-Box choice, along with a variety of controllers for each type of user.

Support building owners with multiple tenants

Our exclusive Central Station EX enables owners to easily manage each tenant's air conditioning electricity consumption and invoicing. Several calculation methods are available for better accuracy.

Demand response energy management

Smart cities, smart buildings... and smart Hitachi VRF systems! Discover our two advanced power-saving functions: peak-load cut to prevent peak demand, and capacity moderation to reduce the power input demand. In addition, the large majority of our controls provide simplified scheduling capabilities, so that users can schedule to save energy according to their utility plan.

Complete VRF offer Select and combine as you need!

Versatile Outdoor units

- Top flow modular
- Side flow "mini"
- SideSmart™ modular (exclusive)
- Centrifugal (exclusive)
- Water-source
- 3 types: Cooling only, heat pump (2-pipes), heat recovery (3-pipes)

Variety of indoor units

- Over 30 models available around the globe
- Wide range of ceiling cassettes and ducted units for all types of configuration
- Ventilation
- Air Handling Unit Integration to Hitachi VRF

User-friendly controls

- Central Stations: large choice of interfaces for simple centralized control operations
- Individual controllers: various of types
- **air**Cloud Pro: cloud-based monitoring available via smartphone app and web

*Product availability varies across countries. Please visit www.hitachiaircon.com or contact your local Hitachi Cooling & Heating representative to receive more information.

Outdoor
units

01

Striving for innovative VRF technology!

Meet SideSmart™, our latest innovation in the Hitachi VRF family. Offering unprecedented flexibility and high efficiency, SideSmart™ will delight HVAC professionals, while it delivers to end-users the comfort they deserve.

The world's first slim modular VRF!

SideSmart™ is an exclusive solution, offering until now an unseen combination of benefits: performance equaling large top-flow units, with slim modular units which can fit anywhere.

5 SMART

CONCEPT
Modularity with great performance

Benefit from the highest level of Hitachi VRF efficiency

DESIGN
Connectable slim side-flow modules

For the first time, side-flow slim units can be connected to combine their capacities

CONFIGURATION
Can be installed on different floors

... thanks to flexibile capacities and options for indoor locations.

SPACE LAYOUT
Save building space

Reserve your rooftop for other purposes, and optimize your indoor layout

INVESTMENT
Save cost at every stage

Fewer piping runs, a simplified installation and energy-saving operation.

Modular combination & superior efficiency.

	1 Economy combination (Base single cabinet: 8-18HP) (Modular combinations: 20-72HP)	**2** Standard combination (Base single cabinet: 8-18HP) (Modular combinations: 20-72HP)	**3** Premium combination (Base single cabinet: 8-14HP) (Modular combinations: 16-48HP)
Energy efficiency[*1]	★★☆ EER 3.79 / COP 4.19	★★★½ EER 3.93 / COP 4.42	★★★ EER 4.32 / COP 4.70
Footprint	★★★	★★★½	★★☆
Initial cost	★★★	★★★½	★★☆

For more information and specifications, please go to page xx. Please refer to the Technical Catalog for more details.
*1 EER/COP: average ratio

Single Cabinet		HP	8	10	12	14	16	18
Dimensions (H x W x D)		mm	1,650 x 1,050 x 420			1,650 x 1,190 x 420		
Net Weight	380-415V	kg	185	197	203	219	225	225
	220V	kg	188	200	205	223	231	231
Cooling Capacity		kW	22.4	28.0	33.5	40.0	45.0	50.0
Heating Capacity		kW	25.0	31.5	37.5	45.0	50.0	54.0
Performance	EER (Cooling)		4.51	4.26	4.27	3.85	3.79	3.54
	COP (Heating)		4.92	4.44	4.68	4.40	4.41	3.90
Air Flow Volume		(m³/min)	160	185	200	250	258	258
Noise level dB(A)	SPL[*1] (Cooling/Heating)	dB(A)	55/56	59/60	60/62	60/61	62/64	62/64

*1 SPL is measured by an anechoic room, so that reflected sound should be taken into consideration in the field.

VARIABLE REFRIGERANT FLOW SYSTEM

9

SideSmart™

SideSmart™ key figures.

3 patents

A true innovation! Only SideSmart™ can achieve this level of flexibility & efficiency:
· Round-shaft motor clamp.
· Tandem sub-cooling system.
· Heating rapid-start technology.

From 1 to 4 modules

Combine and connect up to 4 modules together!

-13% refrigerant charge

A lower amount of refrigerant is required compared to our VRF systems with top-flow outdoor units.

Up to 500m of piping

It adapts to your building's layout, with up to 500m of total piping runs and up to 120m between outdoor units and indoor units.
Up to 150m equivalent distance between outdoor unit and indoor unit.

20 types of indoor units

SideSmart™ is compatible with as many as 20 types of Hitachi indoor units, featuring the most advanced indoor comfort innovations.

Extra savings at <40% part-load

Hitachi exclusive SmoothDrive™ micro-precision technology boosts energy efficiency during part-load operation, to meet real life conditions.

20HP to 72HP

With our various modules, SideSmart™ offers a vast array of capacities.

42cm slim

SideSmart™ modules are only 42cm deep, so they can fit even in narrow spaces.

EER average of 4.32

SideSmart™ delivers the same astonishing level of energy savings as the largest VRF systems:
· Single cabinet 8HP EER up to 4.51.
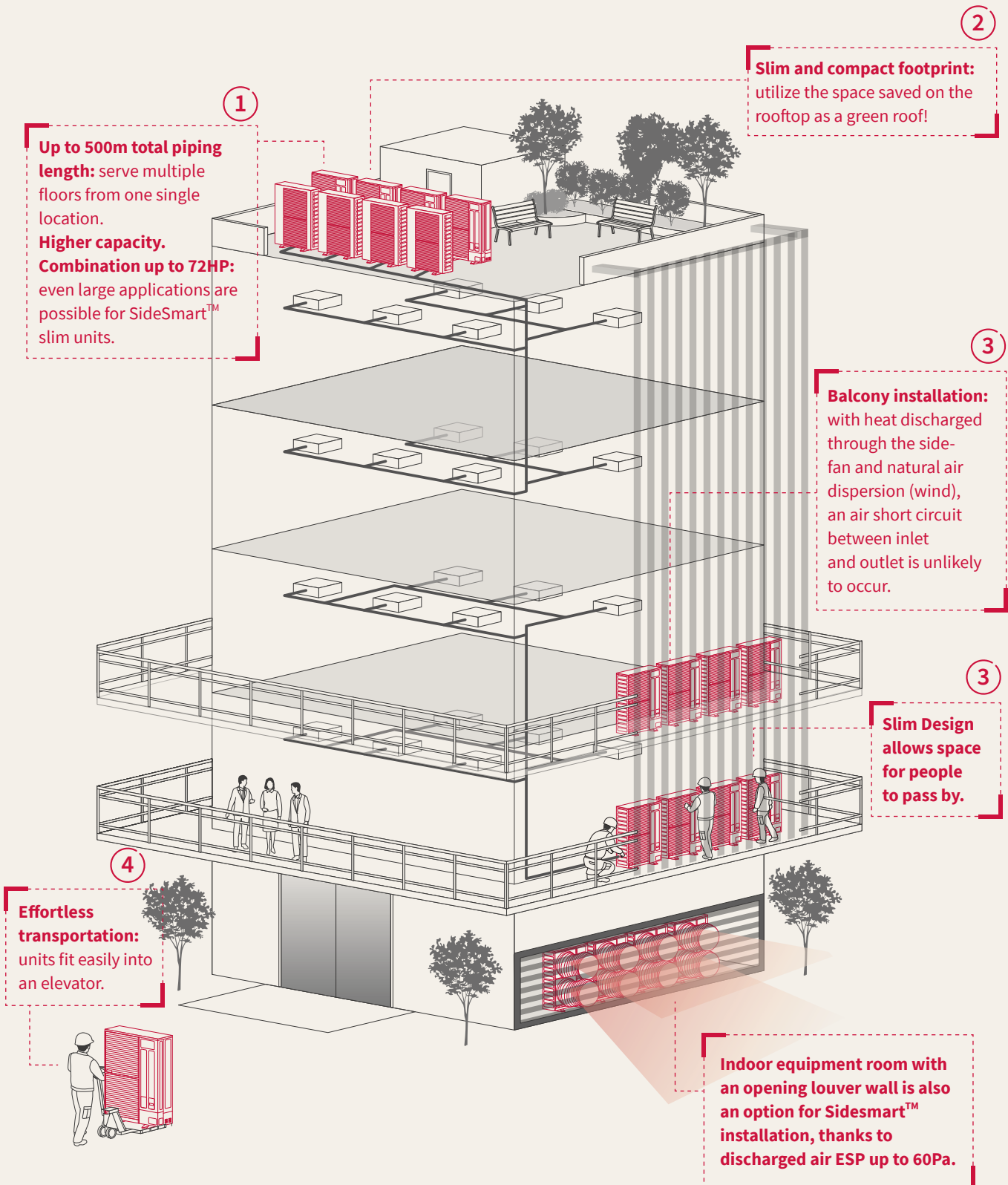· EER 4.32 / COP4.70 average
  for premium combination.

100% preserved rooftop

By choosing to install SideSmart™ in the building's floors, your rooftop will be free of air conditioning equipment.
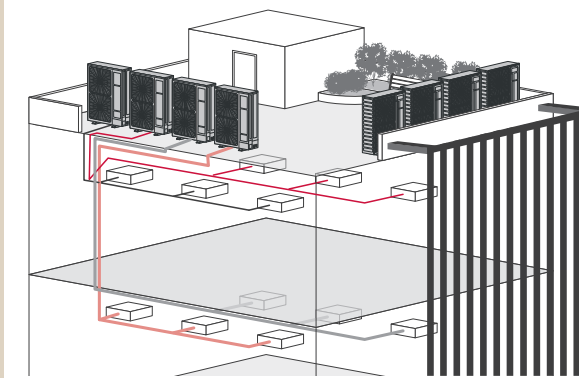
SideSmart™ : the power of ubiquity

Anywhere & everywhere!

Thanks to its slim modular design, SideSmart™ offers unrivaled flexibility of installation location. Save your building's most valuable area, and place SideSmart™ in the small narrow spaces of your building. On the rooftop, balcony, or indoors; you choose!

(1)

Up to 500m total piping length: serve multiple floors from one single location.
Higher capacity. Combination up to 72HP: even large applications are possible for SideSmart™ slim units.

(2)

Slim and compact footprint: utilize the space saved on the rooftop as a green roof!

(3)

Balcony installation: with heat discharged through the side-fan and natural air dispersion (wind), an air short circuit between inlet and outlet is unlikely to occur.

(3)

Slim Design allows space for people to pass by.

(4)

Effortless transportation: units fit easily into an elevator.

Indoor equipment room with an opening louver wall is also an option for Sidesmart™ installation, thanks to discharged air ESP up to 60Pa.
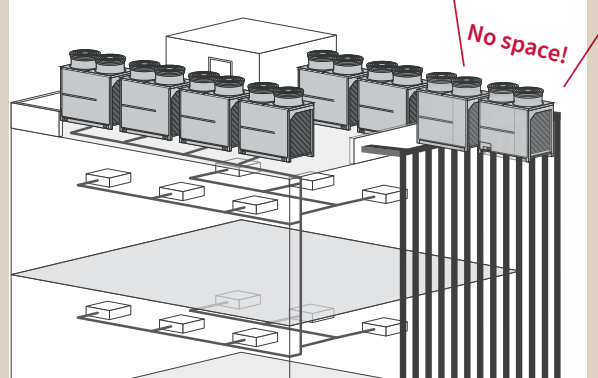
DISCOVER THE SIDESMART™ ADVANTAGES!

1 SideSmart™ requires fewer pipes.

Compared with: conventional side-flow VRF.

One outdoor unit covers one floor, so more piping is needed. Maximum piping length is not sufficient to reach the 1st floor.

2 SideSmart™ saves space!

No space!

Compared with: conventional top-flow VRF.

Each outdoor unit has a larger footprint and takes up significant space. Contrary to the slim SideSmart™, 8 units cannot fit in the roof.

3 When installed on the balcony, since the air comes out to the front of SideSmart™, air short circuits are not likely to occur.

Close to the ceiling

Takes up space

Difficult to pass
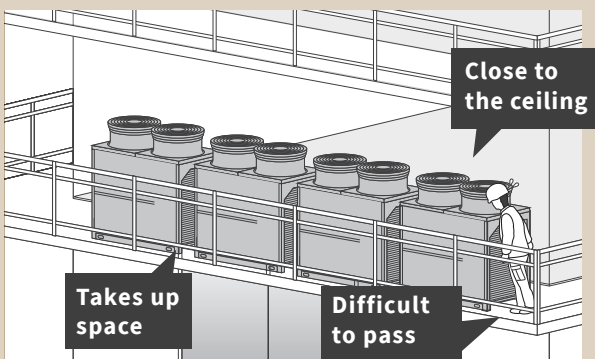
Compared with: conventional top-flow VRF.

The cabinet is too voluminous. People cannot walk around them on a balcony. Air short circuits are likely to occur, because the air discharge is too close to the ceiling.

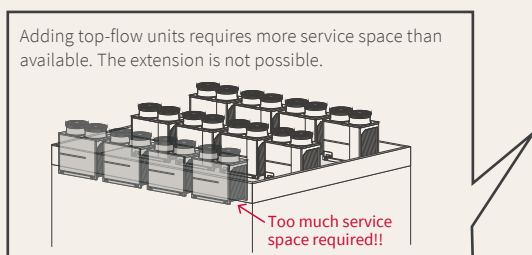## 4 SideSmart™ is a size that can be carried by an elevator.
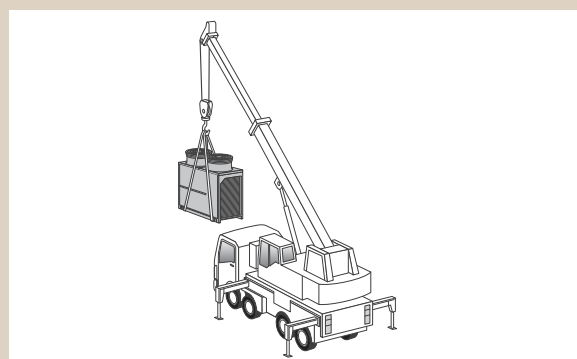
Compared with: conventional top-flow VRF.

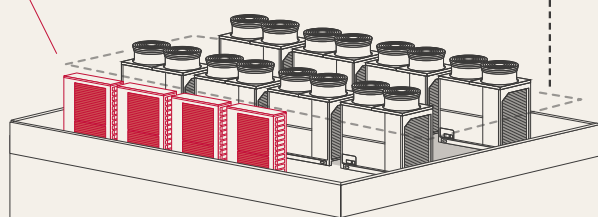Units cannot be lifted by humans. A crane is necessary.

Ideal for extensions: complement your existing VRF system with SideSmart™.

If only narrow space remains to extend to an existing top-flow system, SideSmart™ is the ideal solution.

Adding top-flow units requires more service space than available. The extension is not possible.

Too much service space required!!

New extension with SideSmart™!

Existing top-flow VRF.

VARIABLE REFRIGERANT FLOW SYSTEM

11

SideSmart™

Features & benefits

Flexibility: meet your project requirements.

GREAT PIPING FLEXIBILITY

• Suitable for a medium-size buildings or complex facilities.
• Leads to cost & time saving for designers, with improved system design efficiency.

				MARK
Maximum Piping Length	Total	m	500	-
	From (Piping Connection Kit 1) to the furthest IDU	m	120 (Actual)	L1
		m	150 (Equivalent)	
	Between (Piping Connection Kit 1) and each ODU	m	10	La, b, c, d
	Between (First Branch) and the furthest IDU	m	90	L2
	Between each (Multi-Kit) and each IDU	m	40	L3
Maximum Height Difference	Between ODUs	m	0.1	H5
	Between ODU and IDU (ODU above IDU)	m	50	H1
	Between ODU and IDU (IDU above ODU)	m	40	
	Between IDUs	m	30	H2

For single unit, and 2 and 3 unit combinations
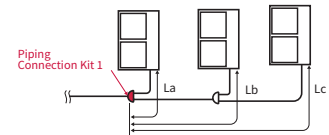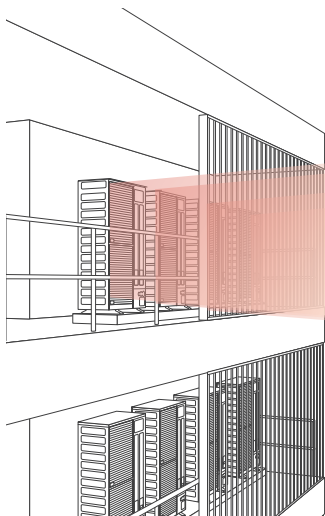

For 4 unit combination
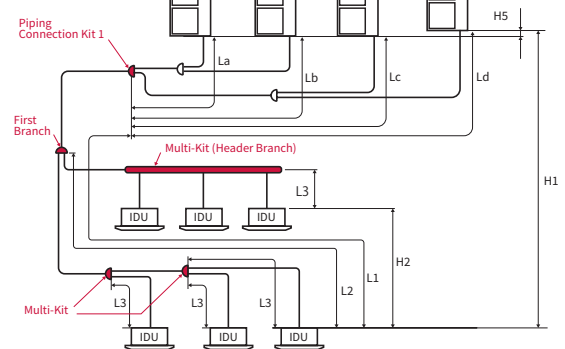
ESP: FLEXIBLE INDOOR INSTALLATION

SideSmart™ can also be accommodated indoors, thanks to its external static pressure options up to 60Pa.
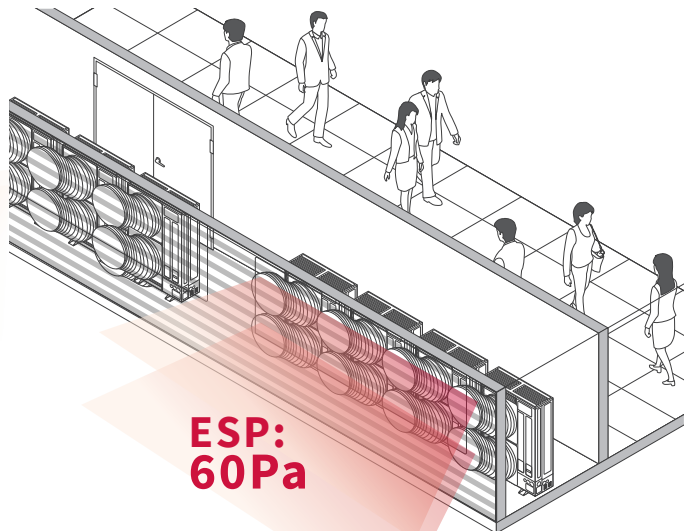• Effective heat discharge to the outside is ensured.
• SideSmart™ units are completely invisible from the building facade.
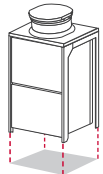
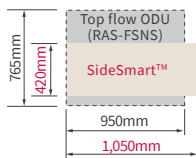**Equipment balcony.**

ESP: 30Pa

Installation room.

ESP: 60Pa

Note: factory default is 0Pa, 2-step additional static pressure can be selected (30Pa or 60Pa) by the dip switch setting!

SLIM FOOTPRINT

0.73m² footprint

Top flow ODU
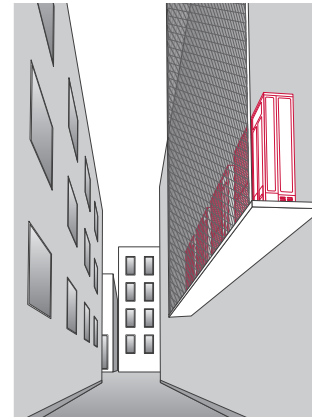(RAS-FSNS)

0.44m² footprint

SideSmart™

765mm
420mm

Top flow ODU
(RAS-FSNS)

SideSmart™

-40% footprint!
(12HP)

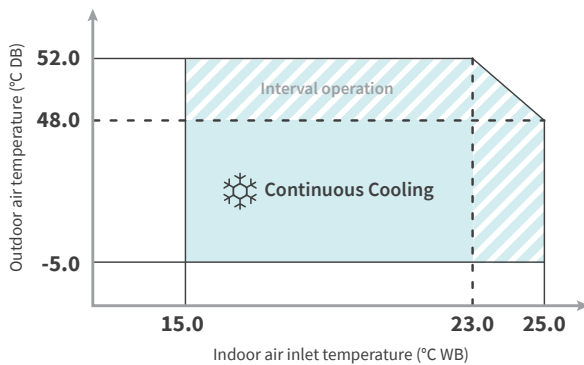950mm
1,050mm

Installation examples:

On balconies.

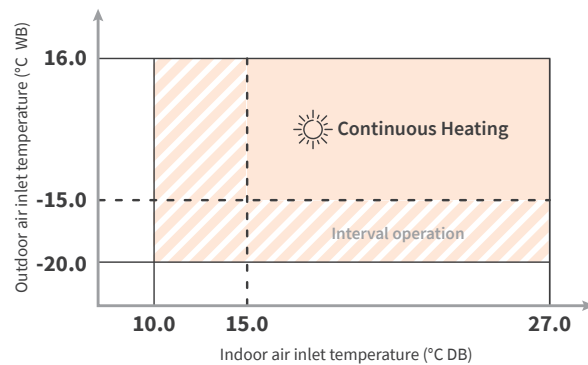Along building facades
(with support structure).

FOR ALL CLIMATES

Cooling operation from up to 52°C ambient temperature.

· Stable running up to 48°C.
· Interval running up to 52°C.

Outdoor air temperature (°C DB)

52.0

48.0

-5.0

Interval operation

❄ Continuous Cooling

15.0   23.0 25.0

Indoor air inlet temperature (°C WB)

Heating operation from as low as -20°C ambient temperature.

· Stable running from as low as -15°C.
· Interval running from as low as -20°C.

Outdoor air inlet temperature (°C WB)

16.0

-15.0

-20.0

☀ Continuous Heating

Interval operation

10.0 15.0   27.0

Indoor air inlet temperature (°C DB)

airCloud Select
Building solutions.

airCloud Select* is the new software created by Hitachi to help you, with your VRF design project.

This tool to become your daily tool because:

· **Enjoy a super intuitive and modern interface.**
· **Select the suitable VRF equipment for each project.**
· **Generate automatic report for your customers.**

airCloud Select is available upon request. Availability varies per country. For more information, please contact your Hitachi Cooling & Heating representative.
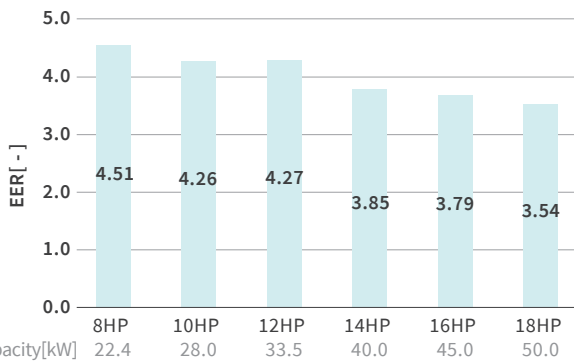
Note: for PC/laptop usage.

HITACHI

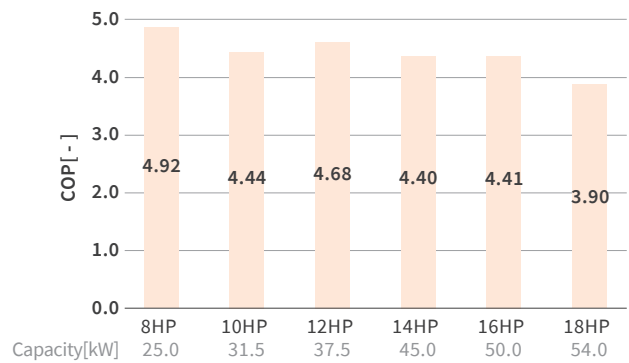VARIABLE REFRIGERANT FLOW SYSTEM

13

SideSmart™

Features & benefits

Small size, yet maximal efficiency.

SIDESMART™ OFFERS SUPERIOR EFFICIENCY

Cooling EER up to 4.51	**Heating COP up to 4.92**

Cooling EER up to 4.51

Capacity[kW]	8HP 22.4	10HP 28.0	12HP 33.5	14HP 40.0	16HP 45.0	18HP 50.0
EER[-]	4.51	4.26	4.27	3.85	3.79	3.54

Heating COP up to 4.92

Capacity[kW]	8HP 25.0	10HP 31.5	12HP 37.5	14HP 45.0	16HP 50.0	18HP 54.0
COP[-]	4.92	4.44	4.68	4.40	4.41	3.90

Notes:
1. EER and COP does not include Indoor unit power consumption.
2. This performance is achieved by 4 way cassette combination. For more details about IDU specifications, please refer to the Technical Catalog.
3. Above ratio is on single cabinet (standard combination & economy combination).

Modular combination & superior efficiency.

	1 Economy combination (Base single cabinet: 8-18HP) (Modular combinations: 20-72HP)	**2** Standard combination (Base single cabinet: 8-18HP) (Modular combinations: 20-72HP)	**3** Premium combination (Base single cabinet: 8-14HP) (Modular combinations: 16-48HP)
Energy efficiency[1]	★★☆ EER 3.79 / COP 4.19	★★★☆ EER 3.93 / COP 4.42	★★★ EER 4.32 / COP 4.70
Footprint	★★★	★★★☆	★★☆
Initial cost	★★★	★★★☆	★★☆

For more information and specifications, please go to page xx. Please refer to the Technical Catalog for more details.
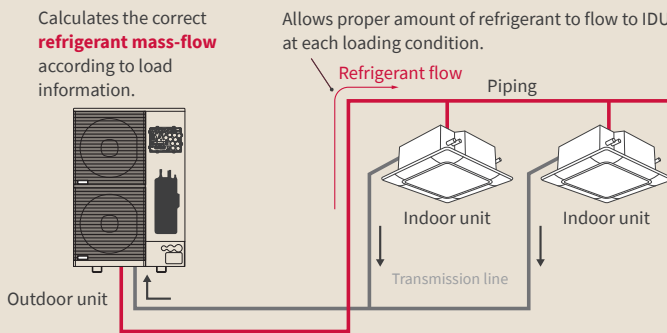*1 EER/COP: average ratio

Features & benefits

Improved operation.

SMOOTHDRIVE™: SUPERIOR COMPRESSOR CONTROL

You can realize that we want to bring true value to your customers. Meeting high energy efficiency standards is one thing, but on top of that, SmoothDrive™ supports energy savings in real-life conditions, since real life changes constantly.
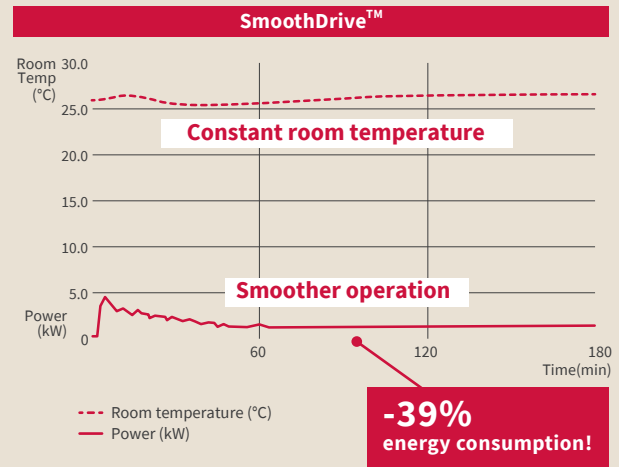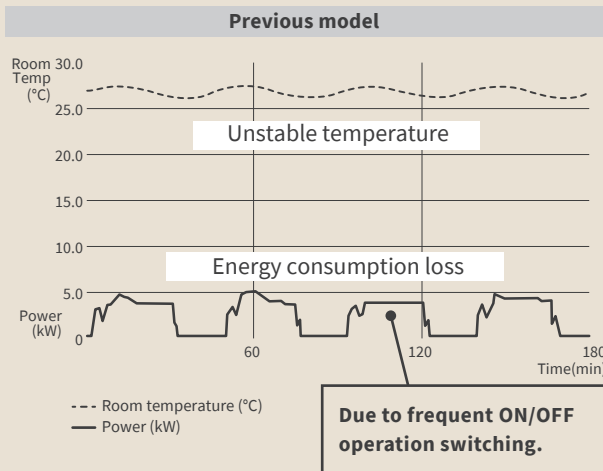
How does SmoothDrive™ work?

Brushing up existing variable evaporating/condensing temperature control, SmoothDrive™ directly regulates refrigerant amount mass-flow, thanks to Hitachi's original load-speculation technology.

Calculates the correct **refrigerant mass-flow** according to load information.

Allows proper amount of refrigerant to flow to IDU at each loading condition.

Refrigerant flow

Piping

Indoor unit

Indoor unit
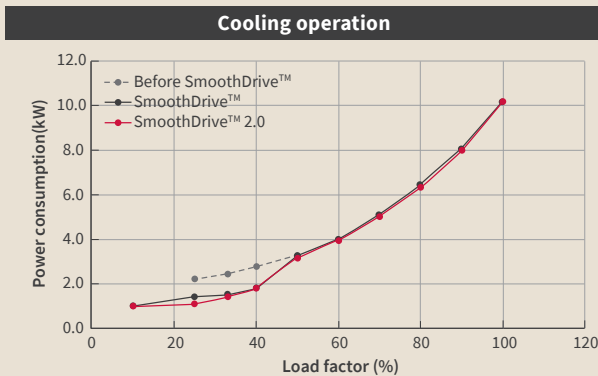
Transmission line

Outdoor unit

- SmoothDrive™ helps the scroll compressor to run continuously and smoothly even at part-load condition.
- Our original load-speculation technology helps reduce energy loss caused by scroll compressor switching on/off.
- Consequently, constant room temperature & energy savings can be achieved.

Actual new compressor control example (at 33% part load in cooling operation).

Previous model

Room Temp (°C)

Unstable temperature

Energy consumption loss

Power (kW)

- - - Room temperature (°C)
—— Power (kW)

Due to frequent ON/OFF operation switching.

SmoothDrive™

Room Temp (°C)

Constant room temperature

Smoother operation

Power (kW)

- - - Room temperature (°C)
—— Power (kW)

-39% energy consumption!

Simulation result for all load conditions.

Cooling operation

Power consumption(kW)

- ● - Before SmoothDrive™
—●— SmoothDrive™
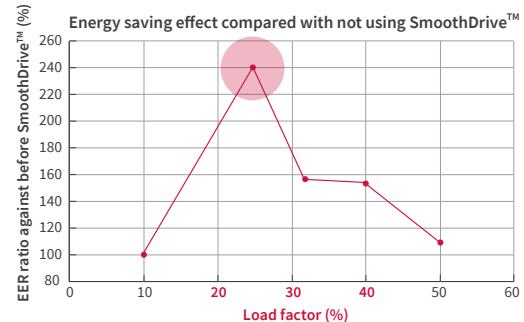—●— SmoothDrive™ 2.0

Load factor (%)

- Difference in power consumption versus load factor.
- Power consumption is reduced when the load factor is 40% or less (note: 40% break point could be changed for different indoor space/ thermal inertia).
- The effect of SmoothDrive™ 2.0 Control is only seen at load levels greater than 10% of loading factor.

Note: all the graphs above are sourced from Hitachi top flow VRF (RAS-FSNP). Same technology SmoothDrive™ is equipped with SideSmart™.

NEW

SmoothDrive™ 2.0 control.

Simulation result for efficiency improvement.

- Most improved EER is at the loading factor around 25%.

Energy saving effect compared with not using SmoothDrive™

EER ratio against before SmoothDrive™ (%)
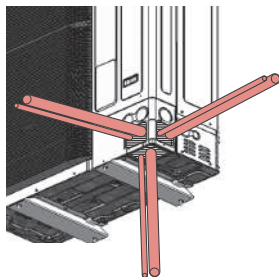
Load factor (%)

Features & benefits
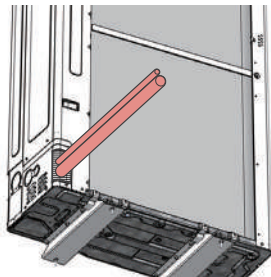## Reliability: enjoy peace of mind.

RELY ON US AND ENJOY YOUR PEACE OF MIND

Piping options in 4 directions.

Depending on the installation situation, installers can choose from 4 running pipe direction options.
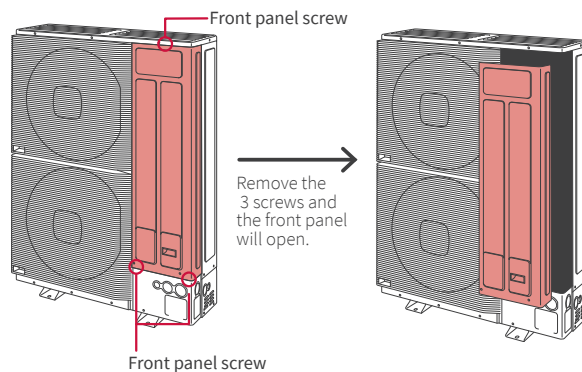
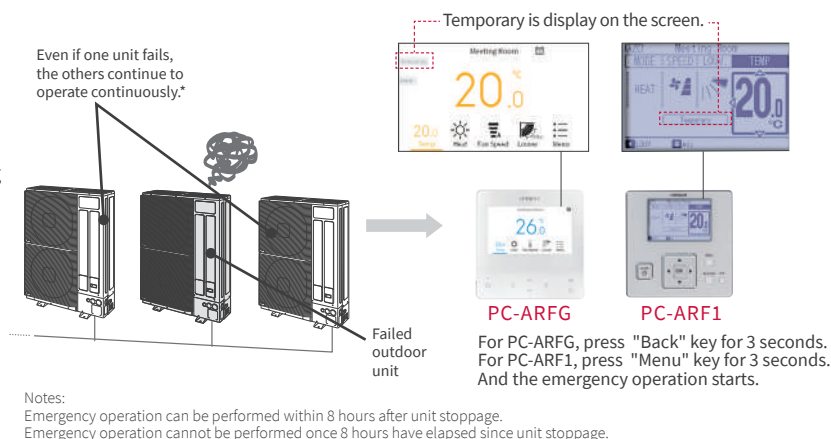[Front/Right/Bottom]   [Rear]

Easier removal of front service cover.

The screws you need to open/close the front service cover are all on the front side.

Front panel screw

Remove the 3 screws and the front panel will open.

Front panel screw

BACKUP OPERATION FEATURE FOR EMERGENCIES

When 2 or more modules are combined:

- The backup operation function prevents the system from coming to a complete stop if outdoor unit failure occurs.
- If one module unit should fail, the system can continue to operate using the remaining modules.
- An alarm is triggered and emergency operation can be activated via an individual remote control.
- At least 2 module units (as a combined unit) are required for this feature.
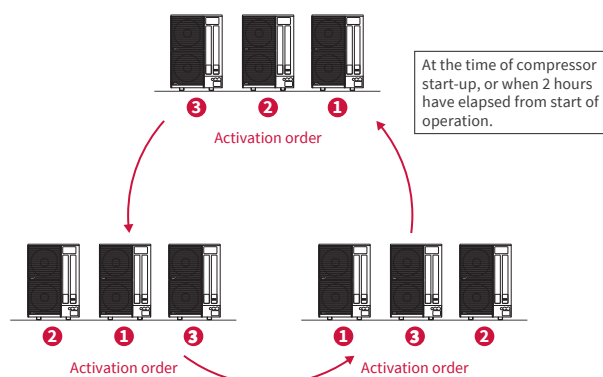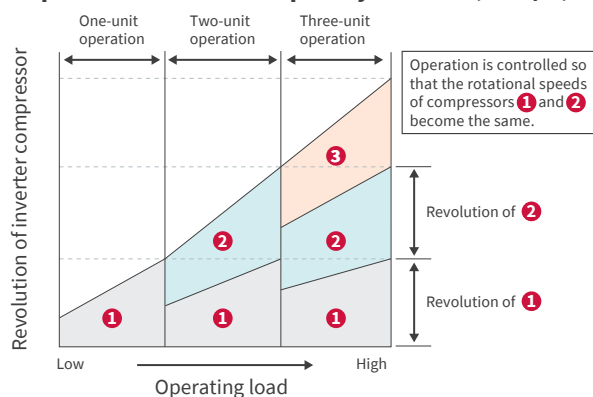- Emergency operation can be performed within 8 hours following unit stoppage.

Even if one unit fails, the others continue to operate continuously.*

Temporary is display on the screen.

Failed outdoor unit

PC-ARFG   PC-ARF1

For PC-ARFG, press "Back" key for 3 seconds.
For PC-ARF1, press "Menu" key for 3 seconds.
And the emergency operation starts.

Notes:
Emergency operation can be performed within 8 hours after unit stoppage.
Emergency operation cannot be performed once 8 hours have elapsed since unit stoppage.

ROTATIONAL OPERATION TO DISTRIBUTE OUTDOOR UNITS LOAD

Regulating the operation time of each outdoor unit[*1] leads to load reduction on compressors.[*2]
During multiple unit operation, maintaining the same rotation frequency of the compressors results in an equivalent load on each compressor, thereby helping enhance outdoor unit durability.

Compressor rotation frequency control (example).

One-unit operation | Two-unit operation | Three-unit operation

Revolution of inverter compressor

Operation is controlled so that the rotational speeds of compressors ❶ and ❷ become the same.

③

❷   ❷

Revolution of ❷

❶   ❶   ❶

Revolution of ❶

Low   High
Operating load

❸   ❷   ❶
Activation order

At the time of compressor start-up, or when 2 hours have elapsed from start of operation.

❷   ❶   ❸
Activation order

❶   ❸   ❷
Activation order

*1 At least 2 outdoor units are required for this function.
*2 Comparison between the rotation operation function and non-rotation operation function based on the same system.
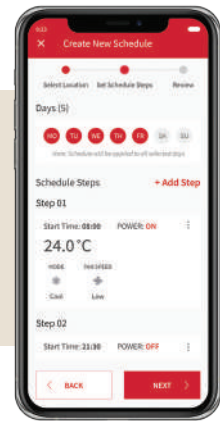
Connect SideSmart™ to **air**Cloud Pro and monitor your system from anywhere.

Please refer to p90-91

Note: SideSmart™ monitoring with airCloud Pro available from May 2021.

HITACHI

For stand-alone and multi-site applications.

VARIABLE REFRIGERANT FLOW SYSTEM

17

SideSmart™

Features & benefits
Improved components.

A NEW DESIGN

Newly designed grille.
Based on Hitachi's Cooling & Heating Duality Design™, the sleek graphite-colored grille visually blends in, which is ideal for open-space installations.

New motor-clamp.
An upgraded design improves the air discharge process, leading to improved efficiency.

New printed circuit board.
With Hitachi's exclusive [SmoothDrive™] Compressor Control Technology, operation is more comfortable and consistent.

Heat exchanger.
Features a newly improved refrigerant path and a new fin shape, used in tandem with a subcooling system.

Bigger capacity and slimmer unit is made possible by an **Hitachi DC-Inverter scroll compressor (with 0.1Hz precision control)** and a longer accumulator with greater volume.

New fan outlet structure.
Better energy efficiency.

New fan, improved interface between the outside air and the VRF system, is optimized for larger unit capacity by DC fan motor.

LESS REFRIGERANT, LESS CO2-EQ EMISSIONS

Enjoy Hitachi's VRF performance with smaller amounts of refrigerant, thanks to the new tandem subcooling system leading to improved heat exchange.
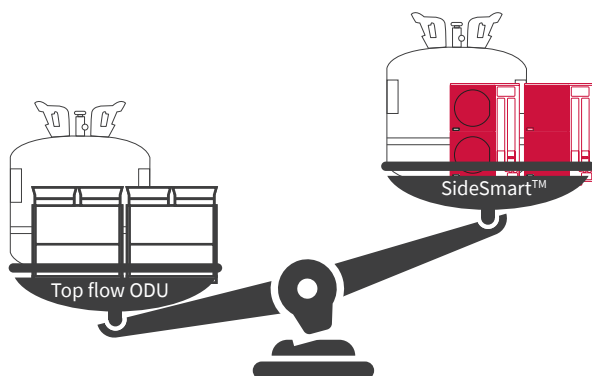
• Total refrigerant quantity SideSmart™ vs other VRF.

System	Current top flow VRF (RAS-FSNS)	SideSmart™
Initial charge	9.9kg	9.6kg
Additional charge	19.8kg	16.3kg
Total	29.7kg →	25.9kg

-13% refrigerant used!

System assumption

System	16HP system
Maximum piping length (from [Piping Connection Kit 1] to furthest indoor unit)	90m
Total piping length	165m
Number of indoor units	3HP Indoor Units * 6 pcs
IDU connection ratio	113%

Specifications

SINGLE CABINET

HP			8HP	10HP	12HP	14HP	16HP	18HP
Model Name			RAS-080HNCEL(/R)W	RAS-100HNCEL(/R)W	RAS-120HNCEL(/R)W	RAS-140HNCEL(/R)W	RAS-160HNCEL(/R)W	RAS-180HNCEL(/R)W
Modules for Series	Unit-1		-	-	-	-	-	-
	Unit-2		-	-	-	-	-	-
	Unit-3		-	-	-	-	-	-
	Unit-4		-	-	-	-	-	-
Power Supply		V/Ph/Hz	380-415V/3Ph/50Hz, 380V/3Ph/60Hz (R: 220V/3Ph/60Hz)					
Capacity	Cooling	kW	22.4	28.0	33.5	40.0	45.0	50.0
	Heating	kW	25.0	31.5	37.5	45.0	50.0	54.0
Power Input	Cooling	kW	4.97	6.58	7.84	10.40	11.88	14.14
	Heating	kW	5.08	7.10	8.02	10.23	11.35	13.86
Efficiency	EER	kW/kW	4.51	4.26	4.27	3.85	3.79	3.54
	COP	kW/kW	4.92	4.44	4.68	4.40	4.41	3.90
Air Flow Rate	Standard	m³/min	160	185	200	250	258	258
Max. Current	380-415V/3Ph/50, 60Hz	A	18	21	27	32	36	40
	220V/3Ph/60Hz	A	31	39	49	53	60	66
Dimensions	H×W×D	mm	1650×1050×420	1650×1050×420	1650×1050×420	1650×1190×420	1650×1190×420	1650×1190×420
Net Weight	380-415V/3Ph/50, 60Hz	kg	185	197	203	219	225	225
	220V/3Ph/60Hz	kg	188	200	205	223	231	231
Outdoor Unit Color		—	Natural Gray (1.0Y 85/0.5)	Natural Gray (1.0Y 85/0.5)	Natural Gray (1.0Y 85/0.5)	Natural Gray (1.0Y 85/0.5)	Natural Gray (1.0Y 85/0.5)	Natural Gray (1.0Y 85/0.5)
Footprint Area		m²	0.44	0.44	0.44	0.50	0.50	0.50
Compressor type		—	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Refrigerant	Type	—	R410A	R410A	R410A	R410A	R410A	R410A
	Initial Charge Amount	kg	6.0	7.7	7.7	8.3	9.6	9.6
Number of Fan Motors		—	2	2	2	2	2	2
External Static Pressure of Fan		Pa	0/30/60	0/30/60	0/30/60	0/30/60	0/30/60	0/30/60
Capacity Ratio of IDU/ODU		—	50% - 130%	50% - 130%	50% - 130%	50% - 130%	50% - 130%	50% - 130%
Noise Level	SPL, GB, Anechoic, Cooling	dB(A)	55	59	60	60	62	62
	SPL, GB, Anechoic, Heating	dB(A)	56	60	62	61	64	64
Main Piping Size	Liquid	(φ)mm	9.52	9.52	12.70	12.70	12.70	12.70
	Gas	(φ)mm	19.05	22.20	25.40	25.40	28.58	28.58
Connectable IDU Number	Recommended	-	8	10	10	16	16	16
	Maximum	-	13	16	19	23	26	26
Working Temp. Range (*7)	Cooling	°C DB	-5 ~ 48 (/52)	-5 ~ 48 (/52)	-5 ~ 48 (/52)	-5 ~ 48 (/52)	-5 ~ 48 (/52)	-5 ~ 48 (/52)
	Heating	°C WB	(-20/)-15~16	(-20/)-15~16	(-20/)-15~16	(-20/)-15~16	(-20/)-15~16	(-20/)-15~16
Maximum Piping Length (*8)	Total	m	500 (300)	500 (300)	500 (300)	500 (300)	500 (300)	500 (300)
	From Piping connection kit 1 to Furthest IDU	m	120/150 (Actual/Equivalent)	120/150 (Actual/Equivalent)	120/150 (Actual/Equivalent)	120/150 (Actual/Equivalent)	120/150 (Actual/Equivalent)	120/150 (Actual/Equivalent)
	Between Piping Connection Kit and Each ODU	m	10	10	10	10	10	10
	Between 1st branch and the furthest IDU	m	90 (40)	90 (40)	90 (40)	90 (40)	90 (40)	90 (40)
	Between each branch and each IDU	m	40 (30)	40 (30)	40 (30)	40 (30)	40 (30)	40 (30)
Maximum Height Difference (*9)	Between ODUs	m	0.1	0.1	0.1	0.1	0.1	0.1
	Between ODU and IDU (ODU above IDU)	m	50	50	50	50	50	50
	Between ODU and IDU (IDU above ODU)	m	40	40	40	40	40	40
	Between IDUs	m	30	30	30	30	30	30

L: AC3Φ/380V-415V/50Hz/4 wire AC3Φ/380V/60Hz/4 wire   R: AC3Φ/220V/60Hz/3 wire

Notes:

1. The cooling and heating performance are the values when combined with our specificities indoor units.

1-1. Cooling operation conditions:

Indoor air inlet temperature: 27.0°C DB (80°F DB) / 19.0°C WB (66°F WB).

Outdoor air inlet temperature: 35.0°C DB (95°F DB).

1-2. Heating operation conditions:

Indoor air inlet temperature: 20.0°C DB (68°F DB).

Outdoor air inlet temperature: 7.0°C DB (45°F DB) / 6.0°C WB (43°F WB).

1-3. Piping length: 8-18HP is 7.5 meter / Piping lift: 0 meter.

2. The sound pressure is based on the following conditions.

The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

3. Sound pressure level data was measured at rated cooling and heating condition which same as performance measurement condition. If working condition is different against rated condition, sound may increase.

4. If set to the high static mode, since the fan rotation speed will be increased, sound may increase 5 to 7 dBA.

5. Regarding performance values, EER and COP is not including Indoor unit power consumption.

6. For width of outer dimension, it shows 'module+module' unit dimension only, but actually the distance between each modules should be at least 100mm for installation, please check Technical Manual for details.

(*7) The (XX°) limit temperature applies to interval air conditioning operation.

(*8) In case of connecting number of indoor unit is less than recommended connectable IDU & (when connecting more than recommended number of indoor units).

(*9) In case of connecting number of indoor unit is less than recommended connectable IDU.

From 8HP to 72HP: large choice of combinations

Standard combination

HP	RAS-080	RAS-100	RAS-120	RAS-140	RAS-160	RAS-180
20		••				
22		•	•			
24			••			
26			•	•		
28				••		
30				•	•	
32					••	
34		••		•		
36		•	•	•		
38			••	•		
40			•	••		
42				••••		
44				••	•	
46				•	••	
48					•••	
50		•	•	••		
52			••	••		
54			••		••	
56			••		••	
58			•	•	••	
60				••	••	
62				•••		
64				••••		
66				•••		•
68				••		••
70				•		•••
72						••••

Premium combination

HP	RAS-080	RAS-100	RAS-120	RAS-140	RAS-160	RAS-180
16	••					
18	•	•				
20		••				
22		•	•			
24	•••					
26	••	•				
28	•		•			
30	•	•	•			
32	•		••			
34		•	••			
36			•••			
38	•	•	•			
40	••		••			
42	•	•	••			
44	•		•••			
46		•	•••			
48			••••			

Economy combination

HP	RAS-080	RAS-100	RAS-120	RAS-140	RAS-160	RAS-180
20		••				
22	•			•		
24		•		•		
26		•			•	
28		•				•
30			•			•
32			•			•
34					•	•
36						••
38		••				•
40	•			•		•
42		•		•		•
44		•			•	•
46		•				••
48			•			••
50				•		••
52					•	••
54						•••
56		••				••
58	•			•		••
60		•		•		••
62		•			•	••
64		•				•••
66			•			•••
68			•	•		•••
70						•••
72						••••

Specifications

STANDARD COMBINATION

HP		20HP	22HP	24HP	26HP	28HP	30HP
Model Name		RAS-200HNCEL(R)WS	RAS-220HNCEL(R)WS	RAS-240HNCEL(R)WS	RAS-260HNCEL(R)WS	RAS-280HNCEL(R)WS	RAS-300HNCEL(R)WS
Modules for Series	Unit-1	RAS-100HNCEL(R)W	RAS-100HNCEL(R)W	RAS-120HNCEL(R)W	RAS-140HNCEL(R)W	RAS-140HNCEL(R)W	RAS-160HNCEL(R)W
	Unit-2	RAS-100HNCEL(R)W	RAS-120HNCEL(R)W	RAS-120HNCEL(R)W	RAS-120HNCEL(R)W	RAS-140HNCEL(R)W	RAS-140HNCEL(R)W
	Unit-3	-	-	-	-	-	-
	Unit-4	-	-	-	-	-	-
Power Supply	V/Ph/Hz	380-415V/3Ph/50Hz, 380V/3Ph/60Hz (R: 220V/3Ph/60Hz)					
Dimensions	Height mm	1,650	1,650	1,650	1,650	1,650	1,650
	Depth mm	2,200	2,200	2,200	2,340	2,480	2,480
	Width mm	420	420	420	420	420	420
Capacity	Cooling kW	56.0	61.5	67.0	73.5	80.0	85.0
	Heating kW	63.0	69.0	75.0	82.5	90.0	95.0
Performance	EER -	4.26	4.26	4.27	4.03	3.85	3.82
	COP -	4.44	4.56	4.68	4.52	4.40	4.40
Main Pipe Size	Gas mm	28.58	28.58	28.58	31.75	31.75	31.75
	Liquid mm	15.88	15.88	15.88	19.05	19.05	19.05
Connectable IDU	Recommended Qty	18	20	26	26	32	32
	Maximum Qty	33	36	40	43	47	50
Connectable IDU Ratio	%	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130

HP		32HP	34HP	36HP	38HP	40HP	42HP
Model Name		RAS-320HNCEL(R)WS	RAS-340HNCEL(R)WS	RAS-360HNCEL(R)WS	RAS-380HNCEL(R)WS	RAS-400HNCEL(R)WS	RAS-420HNCEL(R)WS
Modules for Series	Unit-1	RAS-160HNCEL(R)W	RAS-140HNCEL(R)W	RAS-140HNCEL(R)W	RAS-140HNCEL(R)W	RAS-140HNCEL(R)W	RAS-140HNCEL(R)W
	Unit-2	RAS-160HNCEL(R)W	RAS-100HNCEL(R)W	RAS-120HNCEL(R)W	RAS-120HNCEL(R)W	RAS-140HNCEL(R)W	RAS-140HNCEL(R)W
	Unit-3	-	RAS-100HNCEL(R)W	RAS-100HNCEL(R)W	RAS-120HNCEL(R)W	RAS-120HNCEL(R)W	RAS-140HNCEL(R)W
	Unit-4	-	-	-	-	-	-
Power Supply	V/Ph/Hz	380-415V/3Ph/50Hz, 380V/3Ph/60Hz (R: 220V/3Ph/60Hz)					
Dimensions	Height mm	1,650	1,650	1,650	1,650	1,650	1,650
	Depth mm	2,480	3,490	3,490	3,490	3,630	3,770
	Width mm	420	420	420	420	420	420
Capacity	Cooling kW	90.0	96.0	101.5	107.0	113.5	120.0
	Heating kW	100.0	108.0	114.0	120.0	127.5	135.0
Performance	EER -	3.79	4.07	4.09	4.10	3.96	3.85
	COP -	4.41	4.42	4.50	4.57	4.48	4.40
Main Pipe Size	Gas mm	31.75	31.75	38.10	38.10	38.10	38.10
	Liquid mm	19.05	19.05	19.05	19.05	19.05	19.05
Connectable IDU	Recommended Qty	32	32	32	38	38	38
	Maximum Qty	53	56	59	64	64	64
Connectable IDU Ratio	%	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130

HP		44HP	46HP	48HP	50HP	52HP	54HP
Model Name	-	RAS-440HNCEL(R)WS	RAS-460HNCEL(R)WS	RAS-480HNCEL(R)WS	RAS-500HNCEL(R)WS	RAS-520HNCEL(R)WS	RAS-540HNCEL(R)WS
Modules for Series	Unit-1	RAS-160HNCEL(R)W	RAS-160HNCEL(R)W	RAS-160HNCEL(R)W	RAS-140HNCEL(R)W	RAS-140HNCEL(R)W	RAS-160HNCEL(R)W
	Unit-2	RAS-140HNCEL(R)W	RAS-160HNCEL(R)W	RAS-160HNCEL(R)W	RAS-140HNCEL(R)W	RAS-140HNCEL(R)W	RAS-140HNCEL(R)W
	Unit-3	RAS-140HNCEL(R)W	RAS-140HNCEL(R)W	RAS-160HNCEL(R)W	RAS-120HNCEL(R)W	RAS-120HNCEL(R)W	RAS-120HNCEL(R)W
	Unit-4	-	-	-	RAS-100HNCEL(R)W	RAS-120HNCEL(R)W	RAS-120HNCEL(R)W
Power Supply	V/Ph/Hz	380-415V/3Ph/50Hz, 380V/3Ph/60Hz (R: 220V/3Ph/60Hz)					
Dimensions	Height mm	1,650	1,650	1,650	1,650	1,650	1,650
	Depth mm	3,770	3,770	3,770	4,780	4,780	4,780
	Width mm	420	420	420	420	420	420
Capacity	Cooling kW	125.0	130.0	135.0	141.5	147.0	152.0
	Heating kW	140.0	145.0	150.0	159.0	165.0	170.0
Performance	EER -	3.82	3.81	3.79	4.02	4.03	4.00
	COP -	4.40	4.40	4.41	4.47	4.52	4.52
Main Pipe Size	Gas mm	38.10	38.10	38.10	38.10	38.10	38.10
	Liquid mm	19.05	19.05	19.05	19.05	19.05	19.05
Connectable IDU	Recommended Qty	38	38	38	38	38	38
	Maximum Qty	64	64	64	64	64	64
Connectable IDU Ratio	%	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130

HP		**56HP**	**58HP**	**60HP**	**62HP**	**64HP**	**66HP**
Model Name	-	RAS-560HNCEL(R)WS	RAS-580HNCEL(R)WS	RAS-600HNCEL(R)WS	RAS-620HNCEL(R)WS	RAS-640HNCEL(R)WS	RAS-660HNCEL(R)WS
Modules for Series	Unit-1	RAS-160HNCEL(R)W	RAS-160HNCEL(R)W	RAS-160HNCEL(R)W	RAS-160HNCEL(R)W	RAS-160HNCEL(R)W	RAS-180HNCEL(R)W
	Unit-2	RAS-160HNCEL(R)W	RAS-160HNCEL(R)W	RAS-160HNCEL(R)W	RAS-160HNCEL(R)W	RAS-160HNCEL(R)W	RAS-160HNCEL(R)W
	Unit-3	RAS-120HNCEL(R)W	RAS-140HNCEL(R)W	RAS-140HNCEL(R)W	RAS-160HNCEL(R)W	RAS-160HNCEL(R)W	RAS-160HNCEL(R)W
	Unit-4	RAS-120HNCEL(R)W	RAS-120HNCEL(R)W	RAS-140HNCEL(R)W	RAS-140HNCEL(R)W	RAS-160HNCEL(R)W	RAS-160HNCEL(R)W
Power Supply	V/Ph/Hz	380-415V/3Ph/50Hz, 380V/3Ph/60Hz (R: 220V/3Ph/60Hz)					
Dimensions	Height	mm	1,650	1,650	1,650	1,650	1,650	1,650
	Depth	mm	4,780	4,920	5,060	5,060	5,060	5,060
	Width	mm	420	420	420	420	420	420
Capacity	Cooling	kW	157.0	163.5	170.0	175.0	180.0	185.0
	Heating	kW	175.0	182.5	190.0	195.0	200.0	204.0
Performance	EER	-	3.98	3.89	3.82	3.80	3.79	3.72
	COP	-	4.52	4.46	4.40	4.40	4.41	4.26
Main Pipe Size	Gas	mm	44.45	44.45	44.45	44.45	44.45	44.45
	Liquid	mm	19.05	19.05	19.05	19.05	19.05	19.05
Connectable IDU	Recommended	Qty	38	38	38	38	38	38
	Maximum	Qty	64	64	64	64	64	64
Connectable IDU Ratio	%	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130

HP		**68HP**	**70HP**	**72HP**
Model Name	-	RAS-680HNCEL(R)WS	RAS-700HNCEL(R)WS	RAS-720HNCEL(R)WS
Modules for Series	Unit-1	RAS-180HNCEL(R)W	RAS-180HNCEL(R)W	RAS-180HNCEL(R)W
	Unit-2	RAS-180HNCEL(R)W	RAS-180HNCEL(R)W	RAS-180HNCEL(R)W
	Unit-3	RAS-160HNCEL(R)W	RAS-180HNCEL(R)W	RAS-180HNCEL(R)W
	Unit-4	RAS-160HNCEL(R)W	RAS-160HNCEL(R)W	RAS-180HNCEL(R)W
Power Supply	V/Ph/Hz	380-415V/3Ph/50Hz, 380V/3Ph/60Hz (R: 220V/3Ph/60Hz)		
Dimensions	Height	mm	1,650	1,650	1,650
	Depth	mm	5,060	5,060	5,060
	Width	mm	420	420	420
Capacity	Cooling	kW	190.0	195.0	200.0
	Heating	kW	208.0	212.0	216.0
Performance	EER	-	3.65	3.59	3.54
	COP	-	4.13	4.01	3.90
Main Pipe Size	Gas	mm	44.45	44.45	44.45
	Liquid	mm	22.20	22.20	22.20
Connectable IDU	Recommended	Qty	38	38	38
	Maximum	Qty	64	64	64
Connectable IDU Ratio	%	50 - 130	50 - 130	50 - 130

Notes:
1. The cooling and heating performance are the values when combined with indoor units.

	Cooling operation condition	Heating operation condition
Modules for Series	27 °C DB 19 °C WB	20 °C DB
Outdoor Air Inlet Temperature	35 °C DB	7 °C DB 6 °C WB
Piping Length	7.5 m	
Piping Lift	0 m	

2. Sound pressure data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

3. Sound pressure and sound power data was measured at rated cooling and heating condition which same as performance measurement condition. If working condition is different against rated condition, sound may increase.

4. If set to the high static mode, since the fan rotation speed will be increased, sound may increase 5 to 7 dBA.

PREMIUM COMBINATION

HP			16HP	18HP	20HP	22HP	24HP	26HP
Model Name			RAS-160HNCEL(R)WP	RAS-180HNCEL(R)WP	RAS-180HNCEL(R)WP	RAS-220HNCEL(R)WP	RAS-240HNCEL(R)WP	RAS-260HNCEL(R)WP
Modules for Series	Unit-1		RAS-080HNCEL(R)W	RAS-100HNCEL(R)W	RAS-120HNCEL(R)W	RAS-120HNCEL(R)W	RAS-080HNCEL(R)W	RAS-100HNCEL(R)W
	Unit-2		RAS-080HNCEL(R)W	RAS-080HNCEL(R)W	RAS-080HNCEL(R)W	RAS-100HNCEL(R)W	RAS-080HNCEL(R)W	RAS-080HNCEL(R)W
	Unit-3		-	-	-	-	RAS-080HNCEL(R)W	RAS-080HNCEL(R)W
	Unit-4		-	-	-	-	-	-
Power Supply	V/Ph/Hz		380-415V/3Ph/50Hz, 380V/3Ph/60Hz (R: 220V/3Ph/60Hz)					
Dimensions	Height	mm	1,650	1,650	1,650	1,650	1,650	1,650
	Depth	mm	2,200	2,200	2,200	2,200	3,350	3,350
	Width	mm	420	420	420	420	420	420
Capacity	Cooling	kW	44.8	50.4	55.9	61.5	67.2	72.8
	Heating	kW	50.0	56.5	62.5	69.0	75.0	81.5
Performance	EER	-	4.51	4.36	4.36	4.26	4.51	4.41
	COP	-	4.92	4.64	4.77	4.56	4.92	4.72
Main Pipe Size	Gas	mm	28.58	28.58	28.58	28.58	28.58	31.75
	Liquid	mm	12.70	12.70	15.88	15.88	15.88	19.05
Connectable IDU	Recommended	Qty	16.0	16.0	18.0	20.0	26.0	26.0
	Maximum	Qty	26.0	26.0	33.0	36.0	40.0	43.0
Connectable IDU Ratio		%	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130

HP			28HP	30HP	32HP	34HP	36HP	38HP
Model Name			RAS-280HNCEL(R)WP	RAS-300HNCEL(R)WP	RAS-320HNCEL(R)WP	RAS-340HNCEL(R)WP	RAS-360HNCEL(R)WP	RAS-380HNCEL(R)WP
Modules for Series	Unit-1		RAS-120HNCEL(R)W	RAS-120HNCEL(R)W	RAS-120HNCEL(R)W	RAS-120HNCEL(R)W	RAS-120HNCEL(R)W	RAS-120HNCEL(R)W
	Unit-2		RAS-080HNCEL(R)W	RAS-100HNCEL(R)W	RAS-120HNCEL(R)W	RAS-120HNCEL(R)W	RAS-120HNCEL(R)W	RAS-100HNCEL(R)W
	Unit-3		RAS-080HNCEL(R)W	RAS-080HNCEL(R)W	RAS-080HNCEL(R)W	RAS-100HNCEL(R)W	RAS-120HNCEL(R)W	RAS-080HNCEL(R)W
	Unit-4		-	-	-	-	-	RAS-080HNCEL(R)W
Power Supply	V/Ph/Hz		380-415V/3Ph/50Hz, 380V/3Ph/60Hz (R: 220V/3Ph/60Hz)					
Dimensions	Height	mm	1,650	1,650	1,650	1,650	1,650	1,650
	Depth	mm	3,350	3,350	3,350	3,350	3,350	4,500
	Width	mm	420	420	420	420	420	420
Capacity	Cooling	kW	78.3	83.9	89.4	95.0	100.5	106.3
	Heating	kW	87.5	94.0	100.0	106.5	112.5	119.0
Performance	EER	-	4.40	4.33	4.33	4.27	4.27	4.36
	COP	-	4.81	4.65	4.74	4.60	4.68	4.71
Main Pipe Size	Gas	mm	31.75	31.75	31.75	31.75	31.75	38.10
	Liquid	mm	19.05	19.05	19.05	19.05	19.05	19.05
Connectable IDU	Recommended	Qty	32.0	32.0	32.0	32	32	38
	Maximum	Qty	47.0	50.0	53.0	56	59	64
Connectable IDU Ratio		%	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130

HP			40HP	42HP	44HP	46HP	48HP
Model Name		-	RAS-400HNCEL(R)WP	RAS-420HNCEL(R)WP	RAS-440HNCEL(R)WP	RAS-460HNCEL(R)WP	RAS-480HNCEL(R)WP
Modules for Series	Unit-1		RAS-120HNCEL(R)W	RAS-120HNCEL(R)W	RAS-120HNCEL(R)W	RAS-120HNCEL(R)W	RAS-120HNCEL(R)W
	Unit-2		RAS-120HNCEL(R)W	RAS-120HNCEL(R)W	RAS-120HNCEL(R)W	RAS-120HNCEL(R)W	RAS-120HNCEL(R)W
	Unit-3		RAS-080HNCEL(R)W	RAS-100HNCEL(R)W	RAS-120HNCEL(R)W	RAS-120HNCEL(R)W	RAS-120HNCEL(R)W
	Unit-4		RAS-080HNCEL(R)W	RAS-080HNCEL(R)W	RAS-080HNCEL(R)W	RAS-100HNCEL(R)W	RAS-120HNCEL(R)W
Power Supply	V/Ph/Hz		380-415V/3Ph/50Hz, 380V/3Ph/60Hz (R: 220V/3Ph/60Hz)				
Dimensions	Height	mm	1,650	1,650	1,650	1,650	1,650
	Depth	mm	4,500	4,500	4,500	4,500	4,500
	Width	mm	420	420	420	420	420
Capacity	Cooling	kW	111.8	117.4	122.9	128.5	134.0
	Heating	kW	125.0	131.5	137.5	144.0	150.0
Performance	EER	-	4.36	4.31	4.31	4.27	4.27
	COP	-	4.77	4.66	4.72	4.62	4.68
Main Pipe Size	Gas	mm	38.10	38.10	38.10	38.10	38.10
	Liquid	mm	19.05	19.05	19.05	19.05	19.05
Connectable IDU	Recommended	Qty	38	38	38	38	38
	Maximum	Qty	64	64	64	64	64
Connectable IDU Ratio		%	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130

Note: please refer to the same notes in standard/economic combination

Specifications

ECONOMY COMBINATION

HP			20HP	22HP	24HP	26HP	28HP	30HP
Model Name			**RAS-200HNCEL(R)WE**	**RAS-220HNCEL(R)WE**	**RAS-240HNCEL(R)WE**	**RAS-260HNCEL(R)WE**	**RAS-280HNCEL(R)WE**	**RAS-300HNCEL(R)WE**
Modules for Series	Unit-1		RAS-100HNCEL(R)W	RAS-140HNCEL(R)W	RAS-140HNCEL(R)W	RAS-160HNCEL(R)W	RAS-180HNCEL(R)W	RAS-180HNCEL(R)W
	Unit-2		RAS-100HNCEL(R)W	RAS-080HNCEL(R)W	RAS-100HNCEL(R)W	RAS-100HNCEL(R)W	RAS-100HNCEL(R)W	RAS-120HNCEL(R)W
	Unit-3		-	-	-	-	-	-
	Unit-4		-	-	-	-	-	-
Power Supply	V/Ph/Hz		380-415V/3Ph/50Hz, 380V/3Ph/60Hz (R: 220V/3Ph/60Hz)
Dimensions	Height	mm	1,650	1,650	1,650	1,650	1,650	1,650
	Depth	mm	2,200	2,340	2,340	2,340	2,340	2,340
	Width	mm	420	420	420	420	420	420
Capacity	Cooling	kW	56.0	62.4	68.0	73.0	78.0	83.5
	Heating	kW	63.0	70.0	76.5	81.5	85.5	91.5
Performance	EER	-	4.26	4.06	4.00	3.95	3.76	3.80
	COP	-	4.44	4.57	4.41	4.42	4.08	4.18
Main Pipe Size	Gas	mm	28.58	28.58	28.58	31.75	31.75	31.75
	Liquid	mm	15.88	15.88	15.88	19.05	19.05	19.05
Connectable IDU	Recommended	Qty	18	20	26	26	32	32
	Maximum	Qty	33	36	40	43	47	50
Connectable IDU Ratio		%	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130

HP			32HP	34HP	36HP	38HP	40HP	42HP
Model Name			**RAS-320HNCEL(R)WE**	**RAS-340HNCEL(R)WE**	**RAS-360HNCEL(R)WE**	**RAS-380HNCEL(R)WE**	**RAS-400HNCEL(R)WE**	**RAS-420HNCEL(R)WE**
Modules for Series	Unit-1		RAS-180HNCEL(R)W	RAS-180HNCEL(R)W	RAS-180HNCEL(R)W	RAS-180HNCEL(R)W	RAS-180HNCEL(R)W	RAS-180HNCEL(R)W
	Unit-2		RAS-140HNCEL(R)W	RAS-160HNCEL(R)W	RAS-180HNCEL(R)W	RAS-100HNCEL(R)W	RAS-140HNCEL(R)W	RAS-140HNCEL(R)W
	Unit-3		-	-	-	RAS-100HNCEL(R)W	RAS-080HNCEL(R)W	RAS-100HNCEL(R)W
	Unit-4		-	-	-	-	-	-
Power Supply	V/Ph/Hz		380-415V/3Ph/50Hz, 380V/3Ph/60Hz (R: 220V/3Ph/60Hz)
Dimensions	Height	mm	1,650	1,650	1,650	1,650	1,650	1,650
	Depth	mm	2,480	2,480	2,480	3,490	3,630	3,630
	Width	mm	420	420	420	420	420	420
Capacity	Cooling	kW	90.0	95.0	100.0	106.0	112.4	118.0
	Heating	kW	99.0	104.0	108.0	117.0	124.0	130.5
Performance	EER	-	3.67	3.65	3.54	3.88	3.81	3.79
	COP	-	4.11	4.13	3.90	4.17	4.25	4.18
Main Pipe Size	Gas	mm	31.75	31.75	38.10	38.1	38.10	38.10
	Liquid	mm	19.05	19.05	19.05	19.05	19.05	19.05
Connectable IDU	Recommended	Qty	32	32	32	38	38	38
	Maximum	Qty	53	56	59	64	64	64
Connectable IDU Ratio		%	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130

HP			44HP	46HP	48HP	50HP	52HP	54HP
Model Name		-	**RAS-440HNCEL(R)WE**	**RAS-460HNCEL(R)WE**	**RAS-480HNCEL(R)WE**	**RAS-500HNCEL(R)WE**	**RAS-520HNCEL(R)WE**	**RAS-540HNCEL(R)WE**
Modules for Series	Unit-1		RAS-180HNCEL(R)W	RAS-180HNCEL(R)W	RAS-180HNCEL(R)W	RAS-180HNCEL(R)W	RAS-180HNCEL(R)W	RAS-180HNCEL(R)W
	Unit-2		RAS-160HNCEL(R)W	RAS-180HNCEL(R)W	RAS-180HNCEL(R)W	RAS-180HNCEL(R)W	RAS-180HNCEL(R)W	RAS-180HNCEL(R)W
	Unit-3		RAS-100HNCEL(R)W	RAS-100HNCEL(R)W	RAS-120HNCEL(R)W	RAS-140HNCEL(R)W	RAS-160HNCEL(R)W	RAS-180HNCEL(R)W
	Unit-4		-	-	-	-	-	-
Power Supply	V/Ph/Hz		380-415V/3Ph/50Hz, 380V/3Ph/60Hz (R: 220V/3Ph/60Hz)
Dimensions	Height	mm	1,650	1,650	1,650	1,650	1,650	1,650
	Depth	mm	3,630	3,630	3,630	3,770	3,770	3,770
	Width	mm	420	420	420	420	420	420
Capacity	Cooling	kW	123.0	128.0	133.5	140.0	145.0	150.0
	Heating	kW	135.5	139.5	145.5	153.0	158.0	162.0
Performance	EER	-	3.77	3.69	3.70	3.62	3.61	3.54
	COP	-	4.19	4.01	4.07	4.03	4.04	3.90
Main Pipe Size	Gas	mm	38.10	38.10	38.10	38.10	38.10	38.10
	Liquid	mm	19.05	19.05	19.05	19.05	19.05	19.05
Connectable IDU	Recommended	Qty	38	38	38	38	38	38
	Maximum	Qty	64	64	64	64	64	64
Connectable IDU Ratio		%	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130

HP			56HP	58HP	60HP	62HP	64HP	66HP
Model Name			RAS-560HNCEL(R)WE	RAS-580HNCEL(R)WE	RAS-600HNCEL(R)WE	RAS-620HNCEL(R)WE	RAS-640HNCEL(R)WE	RAS-660HNCEL(R)WE
Modules for Series	Unit-1		RAS-180HNCEL(R)W	RAS-180HNCEL(R)W	RAS-180HNCEL(R)W	RAS-180HNCEL(R)W	RAS-180HNCEL(R)W	RAS-180HNCEL(R)W
	Unit-2		RAS-180HNCEL(R)W	RAS-180HNCEL(R)W	RAS-180HNCEL(R)W	RAS-180HNCEL(R)W	RAS-180HNCEL(R)W	RAS-180HNCEL(R)W
	Unit-3		RAS-100HNCEL(R)W	RAS-140HNCEL(R)W	RAS-140HNCEL(R)W	RAS-160HNCEL(R)W	RAS-180HNCEL(R)W	RAS-180HNCEL(R)W
	Unit-4		RAS-100HNCEL(R)W	RAS-080HNCEL(R)W	RAS-100HNCEL(R)W	RAS-100HNCEL(R)W	RAS-100HNCEL(R)W	RAS-120HNCEL(R)W
Power Supply	V/Ph/Hz		380-415V/3Ph/50Hz, 380V/3Ph/60Hz (R: 220V/3Ph/60Hz)					
Dimensions	Height	mm	1,650	1,650	1,650	1,650	1,650	1,650
	Depth	mm	4,780	4,920	4,920	4,920	4,920	4,920
	Width	mm	420	420	420	420	420	420
Capacity	Cooling	kW	156.0	162.4	168.0	173.0	178.0	183.5
	Heating	kW	171.0	178.0	184.5	189.5	193.5	199.5
Performance	EER	-	3.76	3.72	3.71	3.70	3.63	3.65
	COP	-	4.08	4.14	4.10	4.10	3.97	4.02
Main Pipe Size	Gas	mm	44.45	44.45	44.45	44.45	44.45	44.45
	Liquid	mm	19.05	19.05	19.05	19.05	19.05	19.05
Connectable IDU	Recommended	Qty	38	38	38	38	38	38
	Maximum	Qty	64	64	64	64	64	64
Connectable IDU Ratio		%	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130

HP			68HP	70HP	72HP
Model Name			RAS-680HNCEL(R)WE	RAS-700HNCEL(R)WE	RAS-720HNCEL(R)WE
Modules for Series	Unit-1		RAS-180HNCEL(R)W	RAS-180HNCEL(R)W	RAS-180HNCEL(R)W
	Unit-2		RAS-180HNCEL(R)W	RAS-180HNCEL(R)W	RAS-180HNCEL(R)W
	Unit-3		RAS-180HNCEL(R)W	RAS-180HNCEL(R)W	RAS-180HNCEL(R)W
	Unit-4		RAS-140HNCEL(R)W	RAS-160HNCEL(R)W	RAS-180HNCEL(R)W
Power Supply	V/Ph/Hz		380-415V/3Ph/50Hz, 380V/3Ph/60Hz (R: 220V/3Ph/60Hz)		
Dimensions	Height	mm	1,650	1,650	1,650
	Depth	mm	5,060	5,060	5,060
	Width	mm	420	420	420
Capacity	Cooling	kW	190.0	195.0	200.0
	Heating	kW	207.0	212.0	216.0
Performance	EER	-	3.60	3.59	3.54
	COP	-	4.00	4.01	3.90
Main Pipe Size	Gas	mm	44.45	44.45	44.45
	Liquid	mm	22.20	22.20	22.20
Connectable IDU	Recommended	Qty	38	38	38
	Maximum	Qty	64	64	64
Connectable IDU Ratio		%	50 - 130	50 - 130	50 - 130

Notes:
1. The cooling and heating performance are the values when combined with indoor units.

	Cooling operation condition	Heating operation condition
Modules for Series	27 °C DB 19 °C WB	20 °C DB
Outdoor Air Inlet Temperature	35 °C DB	7 °C DB 6 °C WB
Piping Length	7.5 m	
Piping Lift	0 m	

2. Sound pressure data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

3. Sound pressure and sound power data was measured at rated cooling and heating condition which same as performance measurement condition. If working condition is different against rated condition, sound may increase.

4. If set to the high static mode, since the fan rotation speed will be increased, sound may increase 5 to 7 dBA.

Optional parts

PIPING CONNECTION KIT

Connection kit for divergent modules.

Model	SEA, Brazil, MEA, India and LA			ANZ		No. of Modules	Notes
	Standard (HP)	Premium (HP)	Economy (HP)	Standard (HP)	Premium (HP)		
MC-NP20HA	20 - 24	16 - 22	20 - 24	18 - 24	16 - 22	2	For Gas: 1 For Liquid: 1
MC-NP21SA1	26 - 32	-	26 - 36	26 - 32	-	2	For Gas: 1 For Liquid: 1
MC-NP30HA	34 - 48	24 - 36	38 - 54	34 - 48	24 - 36	3	For Gas: 2 For Liquid: 2
MC-NP40HA	50 - 72	38 - 48	56 - 72	50 - 54	38 - 48	4	For Gas: 3 For Liquid: 3

MULTI-KIT

Branching for indoor and outdoor connecting pipes.

LINE BRANCH

First branching pipes.

Model	Total ODU Capacity (HP)	Piping Length (L1) < 100 m		Piping Length (L1) ≥ 100 m [1]	
		Gas (φ)	Liquid (φ)	Gas (φ)	Liquid (φ)
MW-NP282A3	8	19.05	9.52	22.2	12.7
	10	22.2	9.52	25.4	12.7
MW-NP452A3	12, 14	25.4	12.7	28.58	12.7
	16, 18	28.58	12.7	31.75	12.7
MW-NP692A3	20 - 24	28.58[2]	15.88	31.75	15.88
MW-NP902A3	26 - 34	31.75	19.05	38.1	19.05
	36 - 54	38.1	19.05	44.45	19.05
MW-NP2682A3	56 - 66	44.45	19.05	50.8	19.05
	68 - 72	44.45	22.2	50.8	22.2

*1 When main pipe size is increased by one size, use reducers (field-supplied).

*2 In case of "Premium-24HP" combination, use a reducer (field-supplied) to connect main pipe to Multi-kit.

Pipe diameter after the first branch and multi-kit.

Model	Total IDU Capacity (HP)	Piping Length between First Branch and Farthest IDU (L2)			
		(L2) ≤ 40 m		40 m < (L2) ≤ 90 m [1]	
		Gas (φ)	Liquid (φ)	Gas (φ)	Liquid (φ)
MW-NP282A3	< 6	15.88	9.52	19.05	9.52
	6 - 8.99	19.05	9.52	22.2	9.52
MW-NP452A3	9 - 11.99	22.2	9.52	25.4	9.52
	12 - 15.99	25.4	12.7	28.58	12.7
MW-NP692A3	16 -17.99	28.58	12.7	31.75	12.7
MW-NP902A3	18 - 25.99	28.58	15.88	31.75	15.88
	26 - 35.99	31.75	19.05	38.1	19.05
MW-NP2682A3	36 -55.99	38.1	19.05	44.45	19.05
	56 -67.99	44.45	19.05	50.8	19.05
	≥ 68	44.45	22.2	50.8	22.2

*1. When the size of the pipe after first branch is increased by one size, use reducers (field-supplied).

Even if the L1 is more than 100m, There is no need to increase the pipe size after first branch.

If the multi-kit size is larger than the first branch, adjust the multi-kit size to the first branch.

In case that the selected pipe size after the first branch is larger than the pipe size before the first branch, use the same pipe size as before the branch.

HEADER BRANCH

Model	Total IDU Capacity (HP)	Number of Branch
MH-NP224A	5-8	4
MH-NP288A	5-10	8

Accessories

AIR FLOW GUIDE

Model Name	Necessary Quantity	ODU single base unit (HP)
AG-SP20A	2	8,10,12
FA-SP20A	1	
AG-SP20B	2	14,16,18
FA-SP20A	1	

WIND GUARD

Model Name	Necessary Quantity	ODU single base unit (HP)
WSP-SP20A	2	8,10,12
FA-SP20A	1	
WSP-SP20B	2	14,16,18
FA-SP20A	1	

AIR INLET GRILLE

Model Name	Necessary Quantity	ODU single base unit (HP)
PSN-SP20A	1	8,10,12
PSN-SP20B	1	14,16,18

PROTECTION NET

Front   Back

Model Name	Necessary Quantity	ODU single base unit (HP)
PN-SP20A	1	8,10,12
FA-SP20A	1	
PN-SP20B	1	14,16,18
FA-SP20A	1	

DRAIN ADAPTER

Straight type   L-shaped type

Model Name	Necessary Quantity	ODU single base unit (HP)	Note
DBS-26	2	8,10,12,14,16,18	Straight type
DBS-26L	2	8,10,12,14,16,18	L-Shaped type

WIND PROTECTION TOOL

Model Name	Necessary Quantity	ODU single base unit (HP)
PN-SP20A	1	8,10,12,14,16,18

Indoor units

02

Comfort first

For each space its own indoor unit. Our wide range of units can meet any type of requirement and space layout, and seamlessly integrate with interiors.

With seamless and quiet operation, your customers can relax and enjoy the air while using only the amount energy needed. Advanced functions such as GentleCool and AutoBoost allow you to customize the air in each space to suit your customers' preferences, while smart design minimizes the need for maintenance.

Line-up summary
Over 20 types available!

DUCTED | The ultimate invisibility.

....

NEW

HIGH ESP (DC)
RPI-FSR, RPI-FSN1

Page 46

NEW

MEDIUM ESP (DC)
RPIM-FSR

Page 46

LOW ESP (AC)
RPIL-HNAUNQ

Page 48

COMPACT (DC)
RPIZ-HNDTSQ

Page 48

HIGH ESP (AC)
RPIH-HNAUNQ, RPI-FSNQ

Page 47

MEDIUM ESP (AC)
RPIM-HNAUNQ, RPI-FSN3Q

Page 47

COMPACT (AC)
RPIZ-HNATNQ
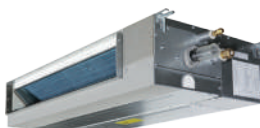
Page 49

LARGER AIR VOLUME (AC)
RPI-FSN2SQ

Page 49

new

CASSETTE | Consistent air reaching every corner of a room.

....

**4-WAY CASSETTE (DC)
RCI-FSRP**

Color variation

Page 54

**TWIN-SENSE SYSTEM
RCI-FSRP+ P-AP160NAE2**

Page 54

**Silent-Iconic™
Design Panel**
P-GP160NAP, P-GP160NAPU, P-GP160KAP
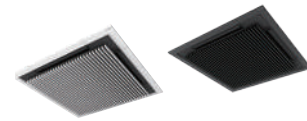
Page 52

**4-WAY COMPACT
CASSETTE (DC)**
RCIM-FSRE

Page 55

2-WAY CASSETTE (DC)
RCD-FSR

Page 56

1-WAY CASSETTE (DC)
RCS-FSR

Page 57

OTHERS | Minimal installation or retrofit works.

....

**NEW
WALL MOUNTED (DC)**
RPK-FSRM, RPK-FSRHM

Page 60

WALL MOUNTED (AC)
RPK-FSNQS

Page 61

FLOOR/CEILING CONVERTIBLE (AC)
RPFC-FSNQ

Page 62

**NEW
CEILING SUSPENDED (DC)**
RPC-FSR

Page 63

FLOOR EXPOSED (AC)
RPF-FSN2E

Page 64

FLOOR CONCEALED (AC)
RPFI-FSN2E / RPFI-FSNQ

Page 65

VARIABLE REFRIGERANT FLOW SYSTEM

35

SideSmart™

Our key indoor features

Hitachi air, making a difference.

GENTLECOOL (FOR COOLING OPERATION)

RPI-FSR RPIM-FSR RPI-FSN1	RCI-FSRP (all panels) RCI-FSKDNQ	RCIM-FSRE	RCD-FSR	RCS-FSR	RPK-FSRM RPK-FSRHM	RPC-FSR	PC-ARF1	PC-ARFG

Set not only your desired room temperature, but the cooled air temperature!

Without GentleCool, the unit might blow cooler air than expected when adjusting the indoor air temperature, causing a cool draft sensation at the beginning of operation.
With GentleCool, users have control over how discharged air reaches a preferred temperature setting, ensuring a smoother cooling down effect.

GentleCool might affect the speed of the room's cooling down to the set temperature.

Potential discomfort.

>8.0°C
→ COLD DRAFT
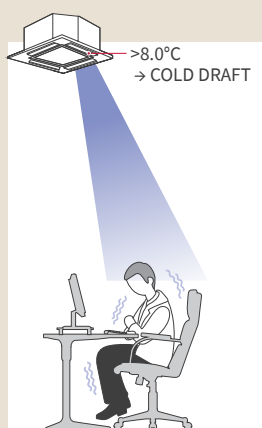
GentleCool
OFF

GentleCool : no cold draft.

>12.0°C

GentleCool
LOW

>14.0°C

GentleCool
MED

>16.0°C

GentleCool
HIGH

NEW & EXCLUSIVE

CROWD-SENSE: PREDICTIVE ADJUSTMENT TO OCCUPANCY VARIATIONS

RCI-FSRP
+
P-AP160NAE2

PC-ARFG

Ideal for meeting rooms, restaurants, museums and other venues experiencing rapid changes of occupancy.

With conventional air conditioning, the arrival of more occupants creates new sources of heat and may naturally disrupt indoor thermal comfort.
With Crowd-Sense predictive control, enjoy a stable indoor temperature whenever the size of the crowd changes.

- Hitachi Twin-Sense cassette detects the crowd's arrival or departure.

- Using AI, the cassette can anticipate the addition or reduction of human heat sources and immediately adjusts the air conditioning accordingly.

Crowd-Sense action during cooling.

Number of occupants increases

TRADITIONAL CONTROL

a) The room temperature becomes too high.

b) The air conditioning power increases after detection of too hot room temperature.

CROWD-SENSE PREDICTIVE CONTROL

a) Predicts and anticipates room temperature rise.

Proactively increases air conditioning power to compensate for additional human heat sources.

b) Room temperature remains stable.

Crowd-Sense action during heating.

Number of occupants increases

TRADITIONAL CONTROL

a) The room temperature becomes too high.

b) The air conditioning thermal operation turns off after detection of too hot room temperature.
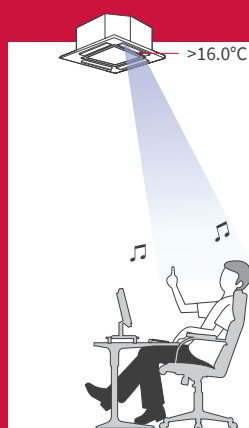
CROWD-SENSE PREDICTIVE CONTROL

a) Predicts and anticipates room temperature rise.

Proactively reduces air conditioning power to accomodate additional human heat sources.

b) Room temperature remains stable.

------- Target set temperature   ——— Power   ——— Room temperature   ———→ Time

Crowd-Sense may not be effective or might be less effective in the following cases:
· Multiple indoor units are in operation in the same zone.
· The difference between the radiant temperature of the room (floor and walls) and the radiant temperature of the human body is minimal.
· The room temperature is high before operation.
· During the heating process, when the number of occupants decreases.

Our key indoor features

Hitachi air, making a difference.

NEW

FEETWARM (FOR HEATING OPERATION)

PC-ARFG

RCI-FSRP
+
P-AP160NAE2

Head to toe comfort during winter.

Intelligent heated air distribution, tailored for the human body.

FeetWarm is complex yet effortless comfort function integrating various parameters together. Available in our Twin-Sense cassette, it prevents the natural effect of cold air sinking and hot air rising, to create enveloping warmth for all occupants.

FeetWarm's boasts 4 intelligent features:

• Thanks to the Twin-Sense radiant sensor, it can detect heat stratification effects inside the room, which usually cause the floor and lower levels to be cooler.

• A 2-step action to first create consistent warmth, then to maintain it.

• Advanced heat air flow optimization, by sophisticated control of the 4-way cassette's individual louvers.

• The lower levels of the room (floor level, feet level, leg level) reach desired temperatures, for total comfort.

Temperature transition in the foot area
(average temperature 30cm above the floor)

Heating with FeetWarm

Conventional heating

↑ **FeetWarm effect**
The temperature in the foot area rises by about 2°C.

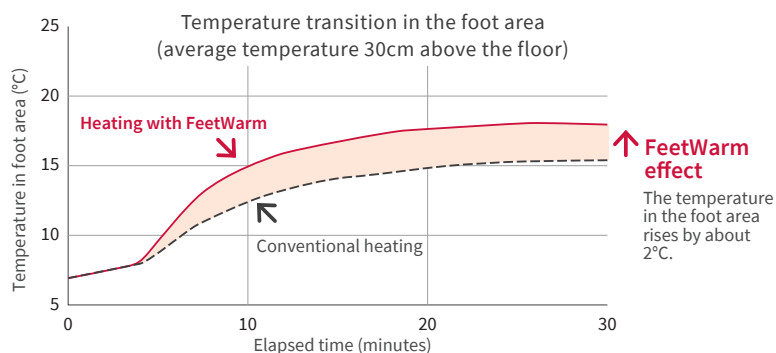*X-axis: Elapsed time (minutes) — 0, 10, 20, 30*
Y-axis: Temperature in foot area (°C) — 5, 10, 15, 20, 25

How does it work?

Step 1.

Alternately repeats every 3 minutes
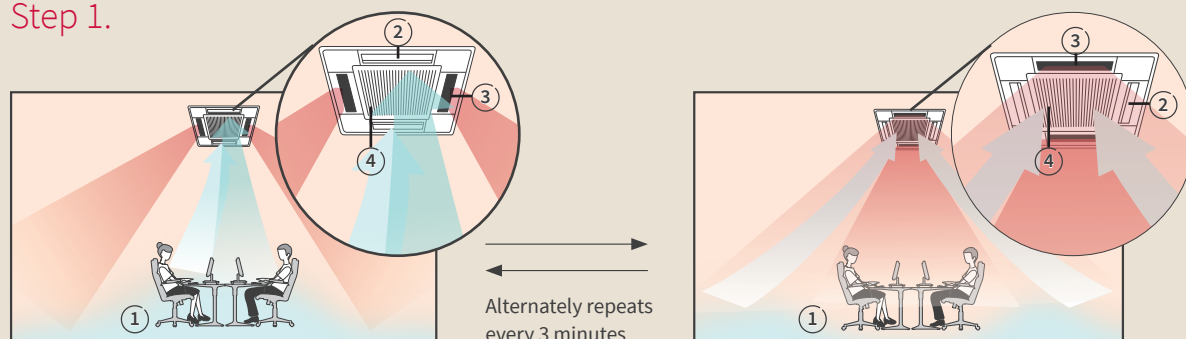
① The radiant sensor detects a temperature drop in the floor and around your feet.

② The cassette partially closes two louvers automatically.

③ The air flow strengthens through the two remaining open louvers, and targets the floor to warm it up quickly[*1].
Louver openings alternate every three minutes from wide open to partially closed to cover a wider floor area.

④ As louver openings close, suction increases in the central inlet grill for a faster warming effect.

*1 Caution: when the indoor unit changes to heating, the sudden change in air flow might cause occupants to feel a cold draft sensation.

Effect of FeetWarm- Step 1.

Temperature distribution around the area of the feet (30min after air conditioning heating operation starts).

Conventional heating

Heating with FeetWarm

About 2°C rise

Feet warm up more quickly!

Average temperature 30cm above the floor = 15.4°C

Average temperature 30cm above the floor = 17.9°C
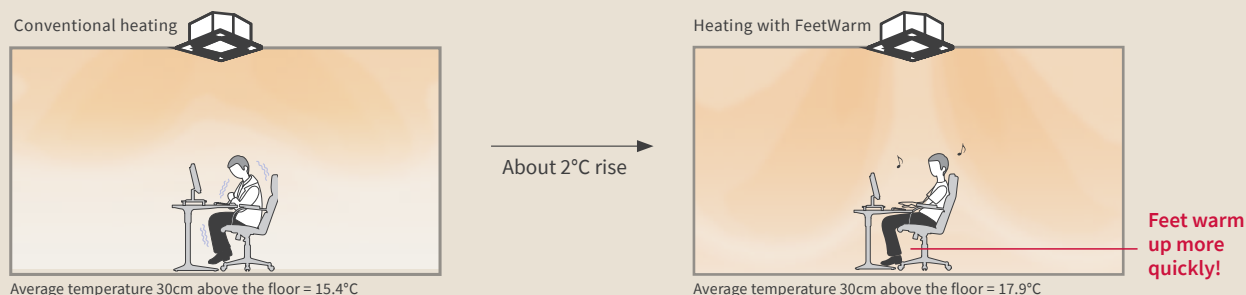
[Image based on calculation results]

VARIABLE REFRIGERANT FLOW SYSTEM

39

SideSmart™

Step 2.

① When the radiant temperature sensor detects that the lower level is no longer cold, FeetWarm shifts to its second step for a more even temperature everywhere in the room.

② One louver remains closed.

③ Three remaining open louvers follow Auto-Swing air flow direction, continuously moving up/down. This leads to faster circulation of the warm air in all areas of the room.

④ Suction of colder air remains facilitated thanks to the one partially closed louver.
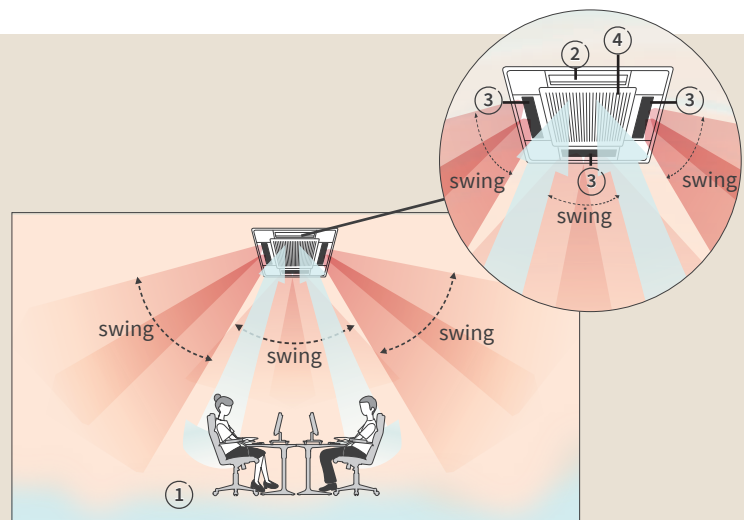
Effect of FeetWarm- Step 2.

FeetWarm: Step 1 (end)
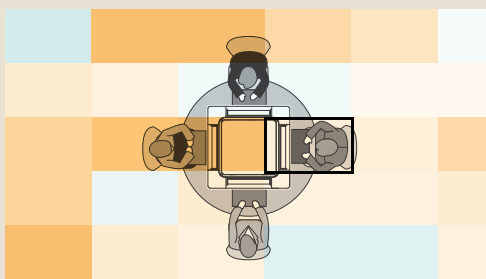
FeetWarm Step 2 (after 20min)

Twin-Sense cassette

Warm and even temperature!
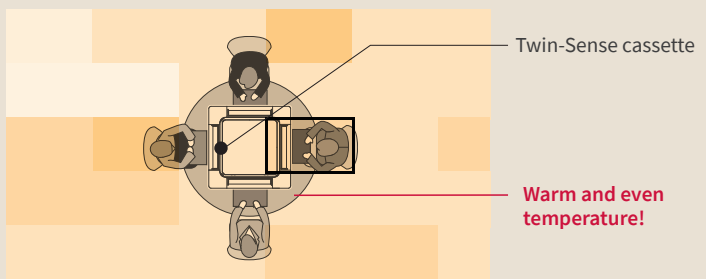
[Measurement condition Based on Hitachi research].
See simulation result under the following conditions above. Unit capacity: 8.0kW, room size: "height 3.2m, length 6.3m, width 6.3m", indoor initial temperature: 7 °C, outdoor temperature: 7 °C, indoor airflow temperature: 30 °C for 0-5 minutes, Gradually rise from 30 °C to 40 °C after 5 minutes, Multi-function remote control setting: Airflow heat control "effective / long".
(Note) The effect varies depending on the size of the room and the load.

Our key indoor features

Hitachi air, making a difference.

FLOORSENSE COOL (FOR COOLING OPERATION)

RCI-FSRP
+
P-AP160NAE2

PC-ARFG

Prevents floor overcooling.

When the room has undergone prolonged cooling, the floor may overcool, due to cold air sinking below layers of warmer air. The radiant sensor can detect when the floor becomes too cold. The air conditioning automatically blows softer to prevent overcooling.[1]

[1] When a group of people return to the room or the room temperature rises due to sunlight, the cooling operation returns to normal.

CONTEXT

After prolonged cooling operation, the room might get cold.
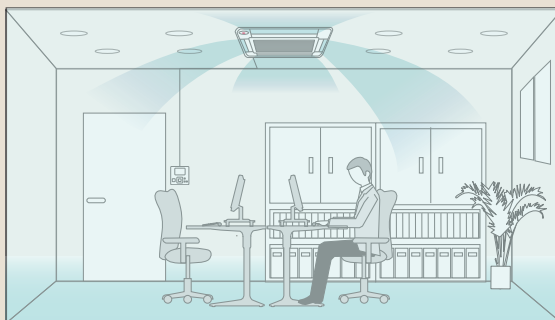
STEP 1

Detection of overcooling.
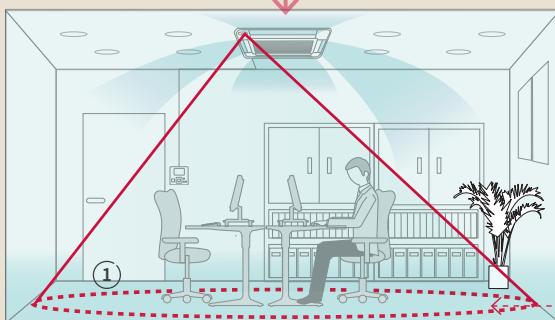
① Detection of cold accumulation at floor level by radiant sensor.

STEP 2

Reduction of overcooling.

move
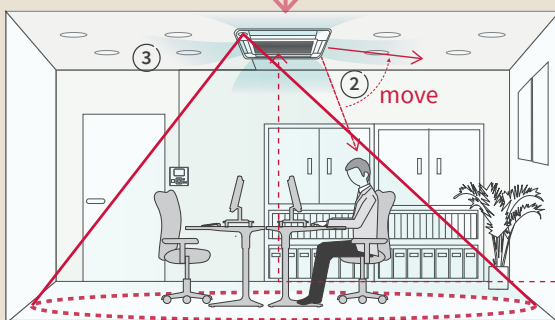
② Louver direction is adjusted to horizontal blow to reduce direct air contact with the floor.

③ Adjustment of air conditioning capacity (reduction).

NEW

CHOICE OF DIRECT OR INDIRECT AIR FLOW

···

RCI-FSRP
+
P-AP160NAE2

PC-ARFG

PC-ARF1

Want to feel the air? Or do you prefer imperceptible air? Choose the preferred air sensation and let the air conditioner adjusts the louver direction to your liking.
Our 4-zone motion sensor divides the room into 4 areas and can detect presence in each of them.

• Choose Direct air flow: the Twin-Sense cassette will target the corners with human activity.

• Choose Indirect air flow: Twin-Sense cassette will avoid the corners where occupants are detected.

Indirect air flow: a gentle, subtle air to go unnoticed.

Horizontal air flow, for circulation above and around occupants without air blowing directly on them.

Detect people

Horizontal airflow
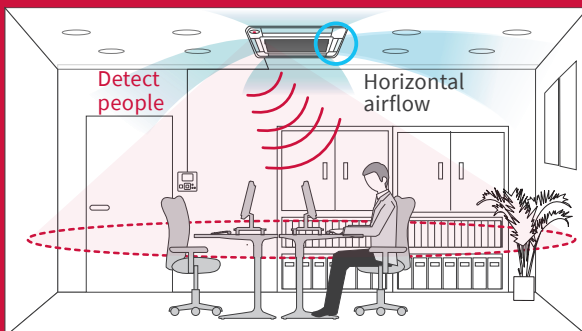
Ideal in places where occupants remain immobile for a long time: restaurants, offices, theaters…

Direct air flow: air flowing sensation to the body.

Auto swing of louvers, to ensure that every occupant can feel the air blowing.

Detect people

Auto swing
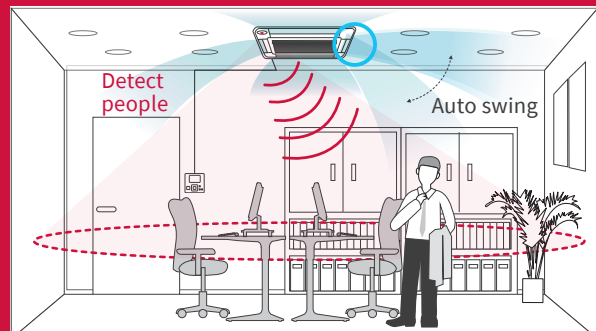
Ideal in places where occupants need quick warm up or cool down: entrance areas and corridors, hotel lobby…

Notes:
When room vacancy is detected, the air is directed in the way the controller (PC-ARFG) is set up. (Note) 4-zone motion sensor may not be effective in the following cases:
· If the room is occupied but the movement is minimal, the system might consider the room as vacant.
· If an object with a temperature different to the surrounding is in motion, it might be considered as human presence.

VARIABLE REFRIGERANT FLOW SYSTEM

41

SideSmart™

Our key indoor features

Hitachi air, making a difference.

HOTEL SETBACK

RPI-FSR RPI-FSN1 RPIM-FSR	RCI-FSRP (all panels) RCI-FSKDNQ	RCIM-FSRE	RCD-FSR	RCS-FSR	RPC-FSR	PC-ARF1	PC-ARFG

Interlock the air conditioner with hotel key card, and set an eco temperature for the time of room vacancy.

Room card — OUT — A — 30.0℃ — Before check-in

Room card — IN — B — 23.0℃ — Guest checks in

Room card — OUT — C — 27.0℃ — Guest away

Room card — IN — D — 23.0℃ — Guest back

30.0℃ — A

27.0℃ Setback temperature!

23.0℃

When AC is off, room might become too hot/too cold.

Setback automatically activates.

B

AC adopts Setback eco temperature.

C

Returning to set temperature when room key inserted.

D

Room card in — Room card out — Room card in

AUTO-SAVE (WITH MOTION SENSOR)

RPI-FSR RPI-FSN1 RPIM-FSR (SOR-NEZ)	RCI-FSRP (P-AP160NAE2) RCI-FSKDNQ (PS-MSK2)	RCIM-FSRE (SOR-NEC)	RCD-FSR (SOR-NED)	RCS-FSR (SOR-NES)	RPC-FSR (SOR-NEP)	PC-ARF1	PC-ARFG

Save more energy while improving comfort!

When adding a motion sensor to the indoor unit, auto-save function will adjust the air conditioning output to the human activity level.

How does it work?

Motion sensor

Motion sensor

Floor 0.8m

Detects human activity in each of the 4 zones

Auto-save

• Detected: High level of human activity
• Output: Full capacity

• Detected: Low level of human activity
• Output: Small reduction of capacity (savings!)

• Detected: Human activity stops
• Output: More reduction of capacity (more savings!)

• Detected: Prolonged vacancy (you can select the duration)
• Output: The AC turns off completely

NEW & EXCLUSIVE
FROSTWASH™

RPI-FSR RPIM-FSR	RCI-FSRP (All panels)	RCIM-FSRE	RCD-FSR	RCS-FSR	RPC-FSR	PC-ARFG

Now available in 6 types of VRF indoor units, our exclusive coil self-cleaning technology uses frost to wash away the dirt.

How does it work?

1 Heat exchanger frost

During freezing

2 Melt the frost Remove dirt[1]

During cleaning
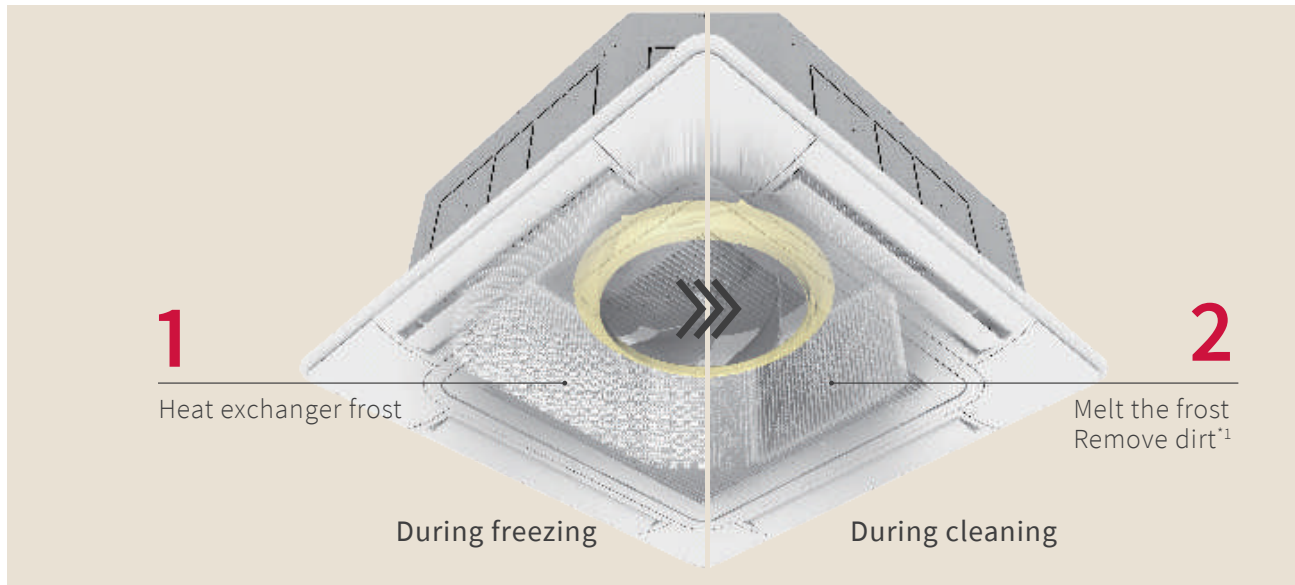
- FrostWash™ freezes the heat exchanger, capturing the dirt.

- When the frost melts, the dirt detaches from the fins.

- As a result, the air volume can be maintained over time, which contributes to a sustainable performance of the indoor unit and comfort.

FrostWash™ process can be activated manually or automatically at scheduled intervals.

* 1 Dirt removal depends on the usage environment.

[CAUTION] FrostWash™ can be available only when indoor unit is under a single-cabinet SideSmart™ system (8HP to 18HP).

VARIABLE REFRIGERANT FLOW SYSTEM

43

SideSmart™

Solutions
Ducted units

AIR CONDITIONING TURNED INVISIBLE!

Our 8 types of ducted units offer variety of ESP level, to facilitate integration into your project.

NEW

HIGH ESP (DC)
[RPI-FSR, RPI-FSN1]

- High ESP: Up to 200Pa (RPI-2.0FSR) or 230Pa (RPI-8.0/10.0FSN1).
- Flexible choice of air suction connection, rear or bottom.
- GentleCool available, to prevent cold draft when cooling starts.
- Hotel Setback available.

NEW

MEDIUM ESP (DC)
[RPIM-FSR]

- 3 levels of ESP available: 50/100/150Pa.
- Flexible choice of air suction connection, rear or bottom.
- GentleCool available, to prevent cold draft when cooling starts.
- Hotel Setback available.

HIGH ESP (AC)
[RPIH-HNAUNQ, RPI-FSNQ]

- High ESP (90/120/180Pa).
- Slim & space saving design thanks to a height of 300mm only (RPIH-HNAUNQ).

MEDIUM ESP (AC)
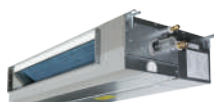[RPIM-HNAUNQ, RPI-FSN3Q]

- Medium ESP: 50/80Pa (0.8-2.5HP) or 100Pa (8.0-10.0HP).
- Slim & space saving design thanks to a height of 270mm only (0.8-2.5HP) or 470mm only (8.0-10.0HP).

LOW ESP (AC)
[RPIL-HNAUNQ]

- Low ESP (30Pa for 0.8-2.5HP, 60Pa for 3.0-6.0HP).
- Space saving design thanks to a height of only 270mm (0.8-2.5HP) or 350mm (3.0-6.0HP).

COMPACT (DC)
[RPIZ-HNDTSQ]

- 192mm height! Ideal for installations above closets or windows.
- Drain-pump with 900mm lift as standard optional part.
- Quiet noise level down to 20dB(A).
- Fan speed: 6 taps available.

COMPACT (AC)
[RPIZ-HNATNQ]

- 192mm height! Ideal for installations above closets or windows.
- Drain-pump with 900mm lift as standard optional part.
- Quiet noise level down to 20dB(A).

LARGER AIR VOLUME (AC)
[RPI-FSN2SQ]

- Two external static pressure settings for more flexibility.
- High external static pressure: Up to 120Pa (140Pa in 7HP).
- Ideal for air ducting to multiple zones.

From 2.2kW to 28kW

Ducted indoor units	Cooling (kW)	2.2	2.8	3.6	4.0	4.3	5.0	5.6	6.3	7.1	8.0	8.4	9.0	11.2	14.0	14.2	16.0	18.0	22.4	28.0
NEW HIGH ESP (DC) [RPI-FSR, RPI-FSN1]								●		●	●			●	●		●		●	●
NEW MEDIUM ESP (DC) [RPIM-FSR]		●	●		●			●		●	●			●	●		●			
HIGH ESP (AC) [RPIH-HNAUNQ, RPI-FSNQ]												●	●	●		●	●		●	●
MEDIUM ESP (AC) [RPIM-HNAUNQ, RPI-FSN3Q]		●	●	●		●	●	●		●									●	●
LOW ESP (AC) [RPIL-HNAUNQ]		●	●	●		●	●	●		●				●	●	●	●			
COMPACT (DC) [RPIZ-HNDTSQ]		●	●	●				●	●	●									
COMPACT (AC) [RPIZ-HNATNQ]		●	●	●				●	●	●									
LARGER AIR VOLUME (AC) [RPI-FSN2SQ]											●			●	●		●	●		

FEATURES COMPARISON

Model	HIGH/ MEDIUM ESP (DC) — NEW	HIGH ESP (8/10HP) (DC) — NEW	HIGH ESP (AC)	HIGH/ MEDIUM ESP (8/10HP) (AC)	MEDIUM/ LOW ESP (AC)	COMPACT (DC)	COMPACT (AC)	LARGER AIR VOLUME (AC)
	RPI-FSR RPIM-FSR	RPI-FSN1	RPIH-HNAUNQ	RPI-FSNQ RPI-FSN3Q	RPIM-HNAUNQ RPIL-HNAUNQ	RPIZ-HNDTSQ	RPIZ-HNATNQ	RPI-FSN2SQ
COMFORT								
Temperature Setting Rate	0.5°C/1.0°C	0.5°C/1.0°C	1.0°C	1.0°C	1.0°C	1.0°C	1.0°C	1.0°C
Fan Speed	4 taps	4 taps	3 taps	1 tap	3 taps	6 taps	3 taps	3 taps
Louver Direction	-	-	-	-	-	-	-	-
Individual Louver Setting	-	-	-	-	-	-	-	-
Auto Louver Setting	-	-	-	-	-	-	-	-
Dry mode Availability	●	●	●	●	●	●	●	●
Setback (Away Function)	●	●	-	-	-	-	-	-
Cold Draft Prevention (*1)(*4)	●	●	●	●	●	●	●	●
Comfort setting — Control Cool Air (GentleCool) (*2)	●	●	-	-	-	-	-	-
Direct/Indirect louver direction in COOL	-	-	-	-	-	-	-	-
Direct/Indirect louver direction in HEAT	-	-	-	-	-	-	-	-
FeetWarm air flow control	-	-	-	-	-	-	-	-
FloorSense Cool air flow control	-	-	-	-	-	-	-	-
POWER-SAVING								
Power Saving with Motion Sensor (*2)	●	●	-	-	-	-	-	-
Outdoor Unit capacity control (*2) — Peak cut control	●	●	-	-	-	-	-	-
Outdoor Unit capacity control (*2) — Moderate control	●	●	-	-	-	-	-	-
Indoor Unit Rotation Control (*2) — Indoor Unit Address	●	●	-	-	-	-	-	-
Indoor Unit Rotation Control (*2) — Indoor Air Temperature difference	●	●	-	-	-	-	-	-
Automatic Fan Operation	●	●	●	●	●	●	●	●
MENU								
AutoBoost (quick function) (*2)	●	●	-	-	-	-	-	-
Daylight Saving Time	●	●	●	●	●	●	●	●
Power Consumption visualization (*2)	●	●	-	-	-	-	-	-
Weekly Schedule Setting	●	●	●	●	●	●	●	●
Power-Saving Setting (*2)	●	●	-	-	-	-	-	-
MAINTENANCE								
NEW FrostWash™ auto-cleaning	●	-	-	-	-	-	-	-
Filter cleaning reminder	●	●	●	●	●	●	●	●
Check Menu — Sensor Condition Check	●	●	●	●	●	●	●	●
Check Menu — Model Display (*2)	●	●	-	-	-	-	-	-
Check Menu — Indoor/Outdoor PCB Check	●	●	●	●	●	●	●	●
Check Menu — Alarm History Display	●	●	●	●	●	●	●	●
OPTIONAL ACCESSORY								
Motion Sensor	SOR-NEZ	SOR-NEZ	-	-	-	-	-	-
Receiver Kit for wireless remote controller	PC-ALHZ1	PC-ALHZ1	PC-RLH11 PC-ALHZ1	PC-RLH11 PC-ALHZ1	PC-RLH11 PC-ALHZ1	PC-RLH11 PC-ALHZ1	PC-RLH11 PC-ALHZ1	PC-RLH11 PC-ALHZ1
Drain-up mechanism availability	● (*3)	● (*3)	DUPI-361Q	DUPI-15H2Q	DUPI-131Q DUPI-361Q	● (*3)	● (*3)	-
Air filter	F-56/90/160LI B-56/90/160LI	F-280LI B-280LI	KW-PP9/10Q	-	KW-PP7/ 8/9/10Q	KW-PP5Q KW-PP6Q	KW-PP5Q KW-PP6Q	-

(*1) This function is utilized to prevent cold discharged air at start-up of heating operation, after defrosting operation, etc.
(*2) Advanced wired remote controller PC-ARF1 needs to be connected.
(*3) Included as standard equipment.
(*4) Please consult your distributor.

45

VARIABLE REFRIGERANT FLOW SYSTEM

SideSmart™

Solutions

Ducted units

HIGH ESP HIGH EXTERNAL STATIC PRESSURE

(DC) [RPI-FSR, RPI-FSN1]

1) Setback temperature control available, leading to better operation.

2) GentleCool control to ensure you are not bothered by cold. (See page 36).

3) Fits a standard condensate drain-pump with 850 mm lift.

4) Air Inlet can be chosen from two locations.

5) Energy-saving thanks to its High Efficiency DC Fan Motor & DC condensate drain-pump.

6) wide range of external static pressure (50Pa to 230Pa).

7) New side-cover for cleaning and checking condensate drain-pan.

8) The electrical box can be flipped over and mounted depending on the installation space.

9) FrostWash™

Long lasting performance
FrostWash™ can remove dirt from the coil and discharge it to outside together with condensate water, thus to maintain airflow and capacity. (See page 43)

③ Up to 850mm

④ Rear air inlet

Bottom air inlet
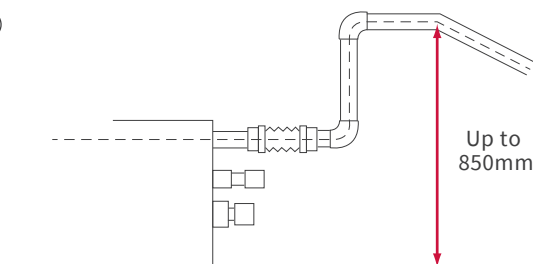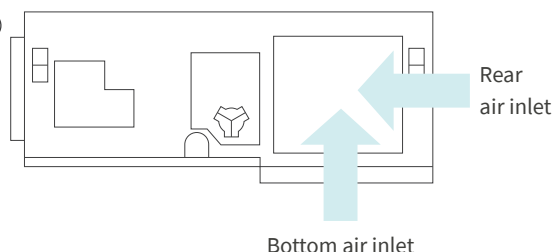
MEDIUM ESP MEDIUM EXTERNAL STATIC PRESSURE

(DC) [RPIM-FSR]

1) Setback temperature control available, leading to better operation.

2) GentleCool control to ensure you are not bothered by cold. (See page 36).

3) Fits a standard condensate drain-pump with 850 mm lift.

4) Air inlet can be chosen from two locations.

5) Energy-saving thanks to high efficiency DC fan motor & DC condensate drain-pump.

6) Selects from 3 settings of external static pressure from remote controller.

7) New side-cover for cleaning and checking condensate drain-pan.

8) The electrical box can be flipped over and mounted depending on the installation space.

9) FrostWash™

Long lasting performance
FrostWash™ can remove dirt from the coil and discharge it to outside together with condensate water, thus to maintain airflow and capacity. (See page 43)

③ Up to 850mm

④ Rear air inlet

Bottom air inlet
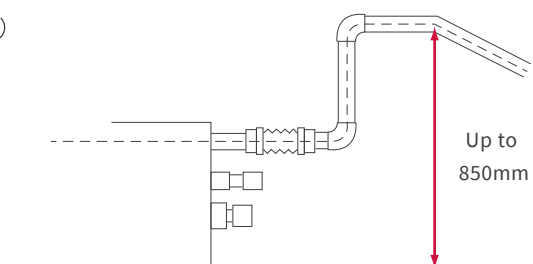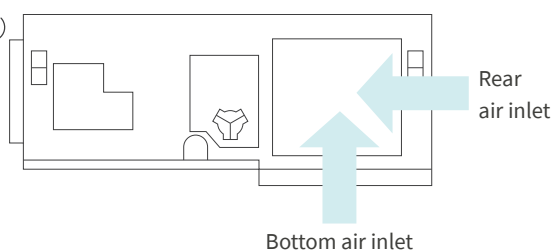
HIGH ESP HIGH EXTERNAL STATIC PRESSURE

(AC) [RPIH-HNAUNQ, RPI-FSNQ]

1) High ESP. (90/120/180Pa)

2)Space saving design thanks
to a height of only 300mm.
(RPIH-HNAUNQ)

3) Flexible installation.
Options allow for multiple configurations.

4) Air inlet can be chosen from 2 locations.

5) Optional drain pump.
Drain-up mechanism can be supplied
as optional part.

③ L-shaped space

U-shaped space

④

Air inlet

Air inlet

⑤

Up to
900mm
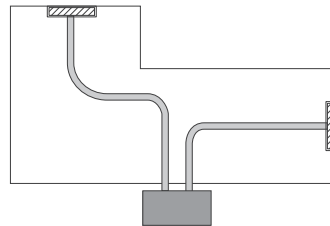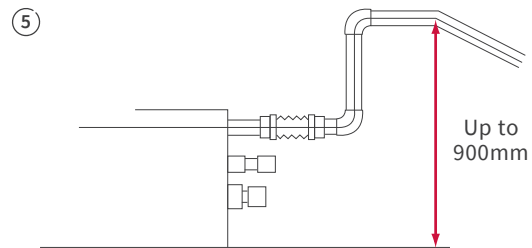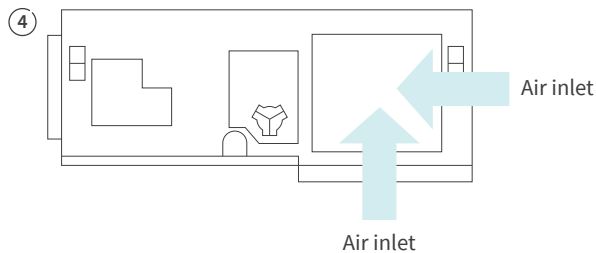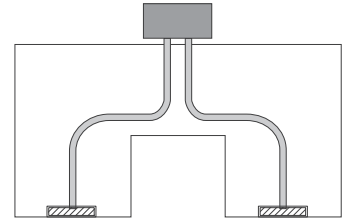
MEDIUM ESP MEDIUM EXTERNAL STATIC PRESSURE

(AC) [RPIM-HNAUNQ, RPI-FSN3Q]

1) Medium ESP. (50/80Pa for 0.8-2.5HP class,
100Pa for 8.0-10.0HP class)

2) Space saving design thanks to a height
of only 270mm. (0.8-2.5HP class) or 470mm
(8.0-10.0HP class)

3) Flexible installation.
Options allow for multiple configurations.

4) Air inlet can be chosen from 2 locations.

5) Optional drain pump.
Drain-up mechanism can be supplied
as optional part.

③ L-shaped space

U-shaped space

④

Air inlet

Air inlet

⑤

Up to
900mm

VARIABLE REFRIGERANT FLOW SYSTEM

47

SlideSmart™
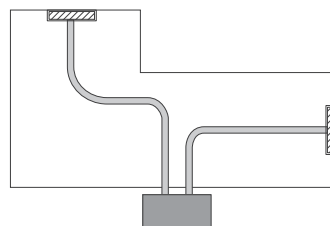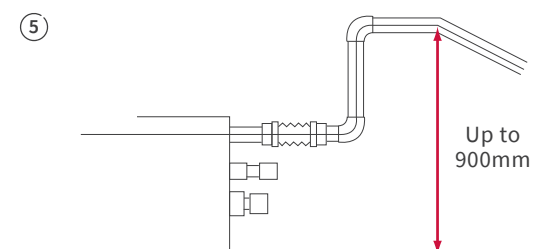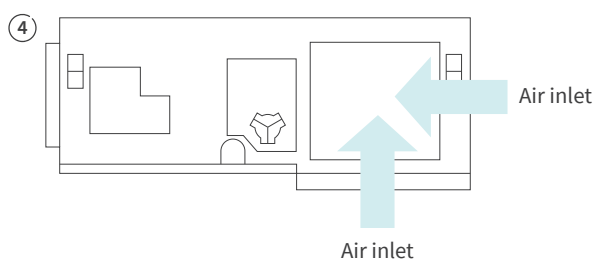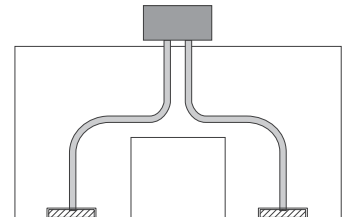
Solutions
Ducted units

LOW ESP (LOW EXTERNAL STATIC PRESSURE)
(AC) [RPIL-HNAUNQ]

1) Low ESP. (30Pa for 0.8-2.5HP class, 60Pa for 3.0-6.0HP class)

2) Space saving design thanks to a height of only 270mm (0.8-2.5HP class) or 300mm (3.0-6.0HP class).

3) Air inlet can be chosen from 2 locations.

4) Optional drain pump.
   Drain-up mechanism can be supplied as optional part.

③ Air inlet

Air inlet

④ Up to 900mm
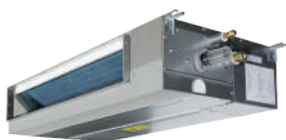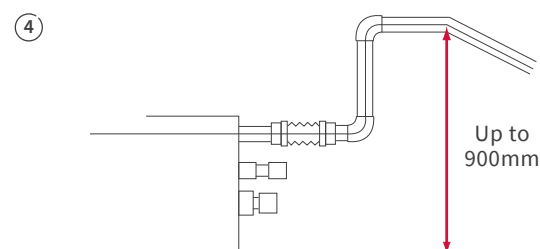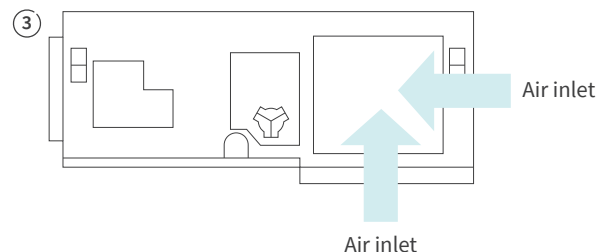
COMPACT
(DC) [RPIZ-HNDTSQ]

1) Ideal for installation over closets or windows thanks to a more compact design, 192mm high.

2) Drain-pump with 900mm lift as standard optional part.

3) Quiet operation level.
   (as low as 22.5dB(A))

4) Fan air flow rate up to 6 taps.
   (DC motor model only)

① Over a closet | In dropped ceiling, over window
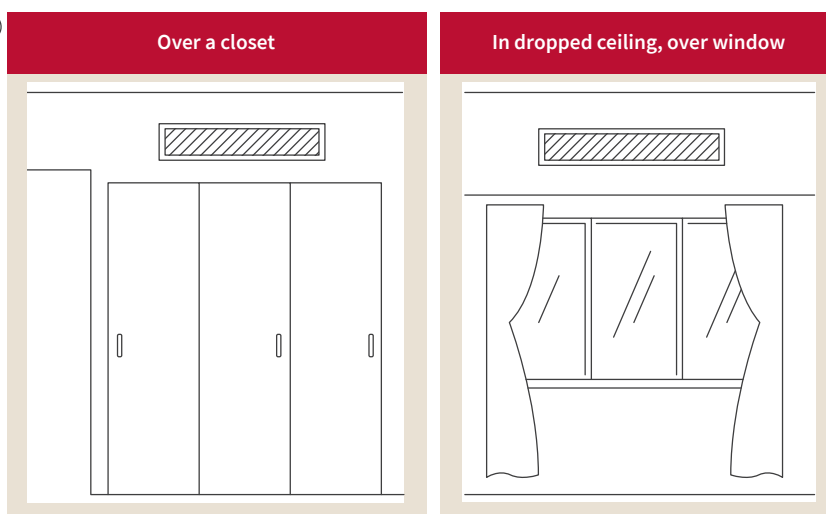
COMPACT

(AC) [RPIZ-HNATNQ]

1) Ideal for installation over closets or windows thanks a more compact design, 192mm high.

2) Drain-pump with 900mm lift as standard optional part.

3) Quiet operation level. (as low as 20dB(A))

4) Fan air flow rate up to 6 taps. (DC motor model only)

①

Over a closet	In dropped ceiling, over window
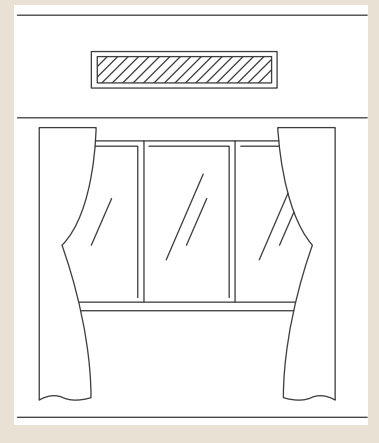
LARGER AIR VOLUME

(AC) [RPI-FSN2SQ]

1) Two external static pressure settings for improved flexibility. (70Pa or 120Pa)

2) High external static pressure: Up to 120Pa. (140Pa in 7HP class)

3) Suitable for air distribution for multiple zone.

4) Flexible installation options allow for multiple configurations.

④

U-shaped space

L-shaped space

VARIABLE REFRIGERANT FLOW SYSTEM

49

SideSmart™

Solutions
Ceiling cassettes

PREMIUM DESIGN & INNOVATIVE FEATURES

Meet with our newly upgraded offer, for upgraded comfort!

NEW

Twin-Sense panel (P-AP160NAE2)

Silent-Iconic™

P-GP160NAP, P-GP160KAP

Color variation (RCI-FSRP)

Silent-Iconic™ with elevation grille

P-GP160NAPU

4-WAY CASSETTE (DC)
[RCI-FSRP]

(with P-AP160NAE2)
• Smarter performance thanks to Twin-Sense system.
• Hitachi exclusive FrostWash™ auto-cleaning technology.

(with P-GP160NAP)
• Award-winning Silent-Iconic™ to fit your indooraesthetics.
• More color options: beige, gray & black.

(with P-GP160NAPU)
• Facilitated maintenance with auto-elevating grille.

4-WAY CASSETTE (DC)
[RCI-FSKDNQ]

• Extensive air distribution possibilities, with 7 louver positions controllable individually and optional ducting for further reach.
• Motion sensor available for more energy savings.
• Ideal for high ceilings, up to 5.5m long cooling air flow.
• GentleCool available, to prevent the perception of a cold draft when cooling starts.

NEW

4-WAY COMPACT CASSETTE (DC)
[RCIM-FSRE]

• 600x600mm dimensions ideal for modular paneled ceilings.
• Whisper quiet operation from 24.5dB(A).
• Multiple fan speeds, ideal for large air volumes and high ceilings (4.6m long cooling air flow).
• Motion sensor available for more energy savings.
• Hitachi exclusive FrostWash™ auto-cleaning technology.

NEW

2-WAY CASSETTE (DC)
[RCD-FSR]

• Ideal for long and narrow spaces.
• Whisper quiet operation down to 27dB(A).
• Suitable for high ceilings & cooling air flow up to 4.6m long.
• Hitachi exclusive FrostWash™ auto-cleaning technology.
• GentleCool available, to prevent cold draft when cooling starts.

NEW

LARGER AIR VOLUME (AC)
[RPI-FSN2SQ]

• Ideal for small corners or installation by the window side.
• Can accommodate downward air flow or side air flow direction.
• Whisper quiet operation down to 27dB(A).
• GentleCool available, to prevent the perception of a cold draft when cooling starts

From 1.6kW to 16kW

Ceiling cassettes	Cooling (kW)	1.6	2.2	2.8	4.0	5.6	7.1	8.0	11.2	14.0	16.0
NEW 4-WAY CASSETTE (DC) [RCI-FSRP, RCI-FSKDNQ]				●	●	●	●	●	●	●	●
NEW 4-WAY COMPACT CASSETTE (DC) [RCIM-FSRE]		●	●	●	●	●	●				
NEW 2-WAY CASSETTE (DC) [RCD-FSR]			●	●	●	●	●	●	●	●	●
NEW 1-WAY CASSETTE (DC) [RCS-FSR]			●	●	●	●	●	●			

FEATURES COMPARISON

Model		4-WAY CASSETTE TYPE (DC MOTOR TYPE) NEW RCI-FSRP	RCI-FSKDNQ	4-WAY CASSETTE COMPACT TYPE (DC MOTOR TYPE) NEW RCIM-FSRE	2-WAY CASSETTE TYPE (DC MOTOR TYPE) NEW RCD-FSR	1-WAY CASSETTE TYPE (DC MOTOR TYPE) NEW RCS-FSR
COMFORT	Temperature Setting Rate	0.5°C/1.0°C	0.5°C/1.0°C	0.5°C/1.0°C	0.5°C/1.0°C	0.5°C/1.0°C
	Fan Speed	4 taps	4 taps	4 taps	4 taps	4 taps
	Louver Direction	7 (*4)	7 (*4)	7 (*4)	7 (*4)	7 (*5)
	Individual Louver Setting	●	●	●	●	-
	Auto Louver Setting	●	●	●	●	●
	Dry mode Availability	●	●	●	●	●
	Setback (Away Function)	●	●	●	●	●
	Cold Draft Prevention Availability (*1)	●	●	●	●	●
	Comfort setting — Control Cool Air (GentleCool) (*2)	●	●	●	●	●
	NEW Direct/Indirect louver direction in COOL	●	-	-	-	-
	NEW Direct/Indirect louver direction in HEAT	●	-	-	-	-
	NEW FeetWarm air flow control	●	-	-	-	-
	NEW FloorSense Cool air flow control	●	-	-	-	-
POWER-SAVING	Power Saving with Motion Sensor (*2)	●	●	●	●	●
	Outdoor Unit capacity control (*2) — Peak cut control	●	●	●	●	●
	Moderate control	●	●	●	●	●
	Indoor Unit Rotation Control (*2) — Indoor Unit Address	●	●	●	●	●
	Indoor Air Temperature difference	●	●	●	●	●
	Automatic Fan Operation	●	●	●	●	●
MENU	AutoBoost (quick function) (*2)	●	●	●	●	●
	Daylight Saving Time	●	●	●	●	●
	Power Consumption visualization (*2)	●	●	●	●	●
	Weekly Schedule Setting	●	●	●	●	●
	Power-Saving Setting (*2)	●	●	●	●	●
MAINTENANCE	NEW FrostWash™ auto-cleaning	●	-	●	●	●
	Filter cleaning reminder	●	●	●	●	●
	Check Menu — Sensor Condition Check	●	●	●	●	●
	Model Display (*2)	●	-	-	●	●
	Indoor/Outdoor PCB Check	●	●	●	●	●
	Alarm History Display	●	●	●	●	●
OPTIONAL ACCESSORY	Colored Panel availability	● (*6)	-	-	● (*6)	● (*6)
	Motion Sensor	P-AP160NAE2	PS-MSK2	SOR-NEC	SOR-NED	SOR-NES
	Receiver Kit for wireless remote controller	PC-ALH3	HR4A10NEWQ PC-ALH3	P-AP56NAMR PC-ALHC1	PC-ALHD1	PC-ALHS1
	Drain-up mechanism availability	● (*3)	● (*3)	● (*3)	● (*3)	● (*3)
	Fresh air intake accessory	● (*7)	-	● (*7)	● (*7)	● (*7)
	Air filter	F-160L-K F-71L-D1 F-160L-D1 B-160H3	-	-	F-90MD-K1 F-160MD-K1 B-90HD B-160HD	-

(*1) You can use this function to prevent cold discharged air at startup of the heating...
(*2) Advanced wired remote controller PC-ARF1 needs to be connected.
(*3) Included as standard equipment.
(*4) 7 angles are available for individual louver setting, 5 angles only for the operation of Cooling or Dry.
(*5) 5 steps only for the operation of Cooling or Dry.
(*6) 3 colors are available (Beige, Grey, and Black).
(*7) A Duct Adapter (Optional part) is available.

Solutions
Ceiling cassettes

SILENT-ICONIC™ 4-WAY CASSETTE DESIGN PANEL

Exclusive panel: architectural designers will love it!

iF Design Award 2020
Award Winning
(Category: Product)

Visual integration into your space

Inspired by Japanese aesthetics, the Silent-Iconic™ panel is designed to blend subtly into any type of interior. Refined and pure lines create elegance and harmony without compromising on performance.

No sacrifice on performance

The Silent-Iconic™ panel completely preserves the capacity and high efficiency of Hitachi 4-way cassette.
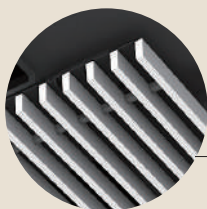
Blind-like shapes of the
air inlet central grille
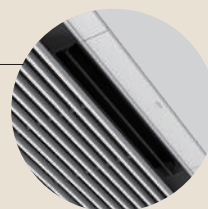
Black air-outlet port
Invisible open/close flaps

iPhone Augmented Reality: try and visualize Silent-Iconic™ design in your space!

With Augmented Reality, you can visualize Hitachi 4-way cassette or Silent-Iconic™ cassette installed in your actual space.

**4-way Cassette
Air Conditioner**
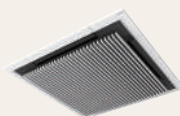
**Silent-Iconic™
White**
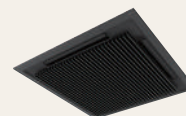
**Silent-Iconic™
Black**

Instructions for use.

1. Scan the QR code[7]and open the web page.

Display the web page with a QR code, URL, etc.
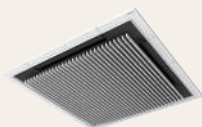
2. Tap the icon.

Tap the icon displayed at the bottom right of the 3D Viewer. If the icon is not displayed, please unhide it in Safari or check the OS version.

3. AR mode is activated.

Hold out the camera toward the ceiling and get it to detect the environment by moving it in a circular motion. You may not be able to scan a single-colored ceiling so scan a place where objects such as downlights or ceiling ventilation fans are installed.
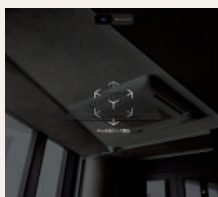
4. Adjustment of placement location.

You can shift then move it with a single finger, and rotate or zoom it out/zoom it in with two fingers to adjust the size that fits the space. There is also a capture button, so you can take and share the pictures you have placed.

Operating environment

[Device]	
iPhone[1]	iPhone 11 Pro / iPhone 11 Pro Max / iPhone 11 / iPhone XS / iPhone XS Max / iPhone XR / iPhone X / iPhone 8 Plus / iPhone 8 / iPhone 7 Plus / iPhone 7 / iPhone 6s Plus / iPhone 6s / iPhone SE
iPad[2]	iPad Pro (all models) / iPad (6th generation) / iPad (5th generation)
[OS]	iOS[3] 12.1 or later
[Browser]	Safari[4] / Google Chrome[5] / Firefox[6]

[1] iPhone is a trademark of Apple Inc., registered in the United States and other countries.
[2] iPad is a trademark of Apple Inc., registered in the United States and other countries.
[3] iOS is the Operating System name of Apple Inc. iOS is a registered trademark or trademark of Cisco Systems, Inc. or its affiliates in the United States and other countries and is used under license.
[4] Safari is a trademark of Apple Inc., registered in the United States and other countries.
[5] Google Chrome is a trademark or registered trademark of Google Inc.
[6] Firefox is a trademark or registered trademark of the United States Mozilla Foundation in the United States and other countries.
[7] QR code is a registered trademark of Denso Wave Incorporated.

Solutions

Ceiling cassettes

NEW

4-WAY CASSETTE HIGH EXTERNAL STATIC PRESSURE TYPE
(DC) [RCI-FSRP]

LINE-UP SUMMARY

P-AP160NA3

STANDARD

- FrostWash™ technology.
- GentleCool.
- (H×W×D) 40×950×950 mm.

- 3 colors available.

Beige · Gray · Black

P-AP160NAE2

TWIN-SENSE

- Smarter with 4-zone motion sensor & radiant sensor.
- (H×W×D) 40×950×950 mm.

SILENT-ICONIC™

- Award winning design panel.
- (H×W×D) 52×950×950 mm.

- 2 colors available!
- Auto-elevating grille option!

White
P-GP160NAP

Black
P-GP160NAP

P-GP160NAPU

Twin-Sense cassette

Adaptive comfort for real life.

EXCLUSIVE
GENTLECOOL

(standard feature)
During cooling, the anti cold-draft control function prevents the perception of a cold draft in the discharged air temperature. (see page 36)

>16.0°C
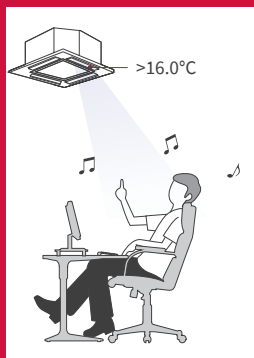
NEW
FEETWARM

(with radiant temperature sensor)
During heating, ensures warmth reaches and remains on the floor and around occupants' feet and legs. (see page 38)
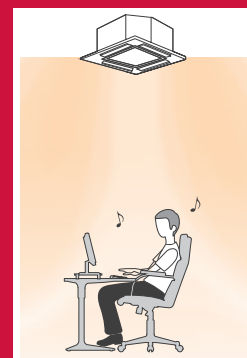
NEW
FLOORSENSE COOL

(with radiant temperature sensor)
During cooling, based on indoor unit's new radiant sensor, the multi-louvers adjust to the precise airflow position and cooling capacity to prevent the cold air from sinking and overcooling the floor area. (see page 40)

Image: during cooling

Horizontal airflow

Detect people
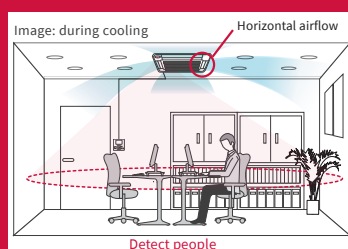
NEW & EXCLUSIVE
CROWD-SENSE

(with motion sensor + radiant temperature sensor)
When detecting an increase of occupants in the room, Twin-Sense anticipates the additional heat source of human bodies. The cassette immediately and pro-actively adjusts operation for a more stable indoor temperature. (see page 37)

NEW

4-WAY COMPACT CASSETTE

(DC) [RCIM-FSRE]

① Ideal for suspended ceilings.

Suspension ceiling system
600mm×600mm

Standard ceiling
panel: 570mm

570 mm
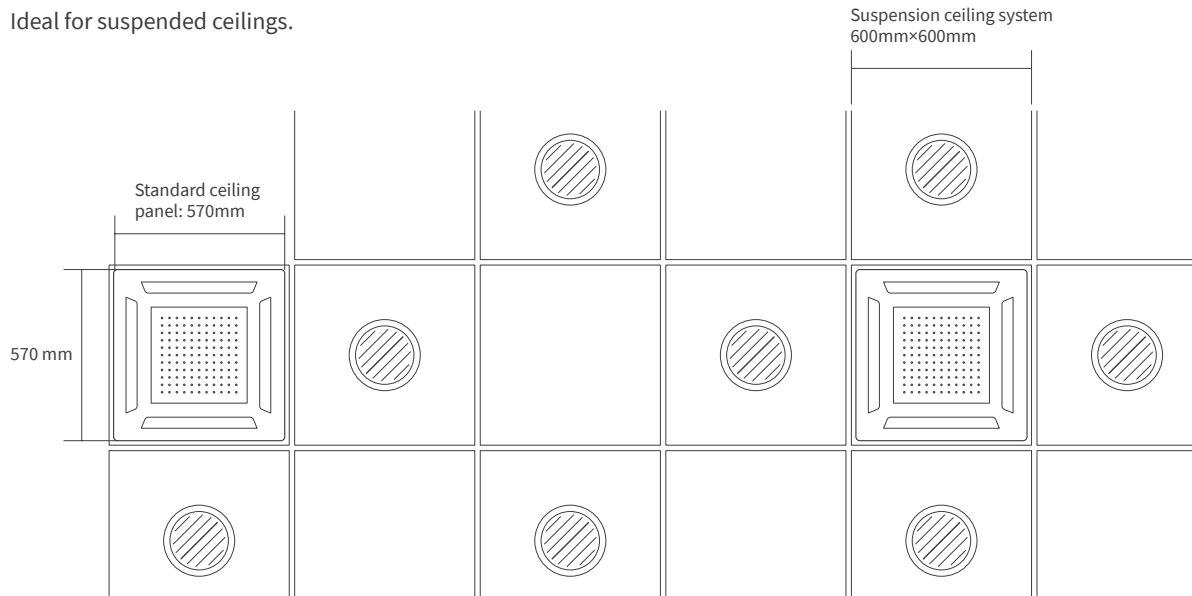
The 600x600 unit can fit in between lighting panels without any disruption.

② Whisper quiet sound level.
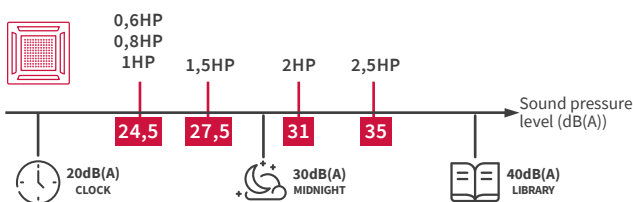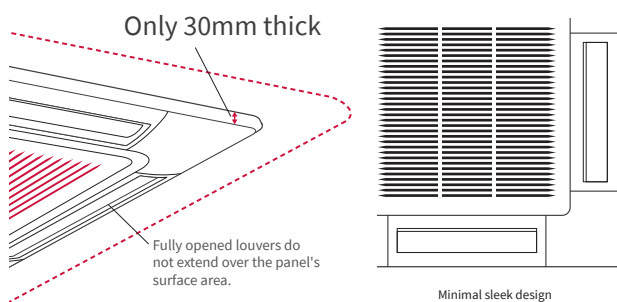
0,6HP
0,8HP
1HP   1,5HP   2HP   2,5HP

Sound pressure
level (dB(A))

| 24,5 | 27,5 | 31 | 35 |

20dB(A) CLOCK   30dB(A) MIDNIGHT   40dB(A) LIBRARY

③ Esthetics.

Only 30mm thick

Fully opened louvers do
not extend over the panel's
surface area.

Minimal sleek design

④ Suitable for high ceilings.
Standard drain pump: up to 850mm lift.

drain
850 mm

(Cooling)
Up to
4.6m
down

* Air flow rate: Hi2
* 2.0-2.5 FSRE

⑤ FrostWash™

Long lasting performance
FrostWash™ can remove dirt from the coil
and discharge it to outside together with
condensate water, thus to maintain airflow
and capacity. (See page 43)

VARIABLE REFRIGERANT FLOW SYSTEM

55

SideSmart™
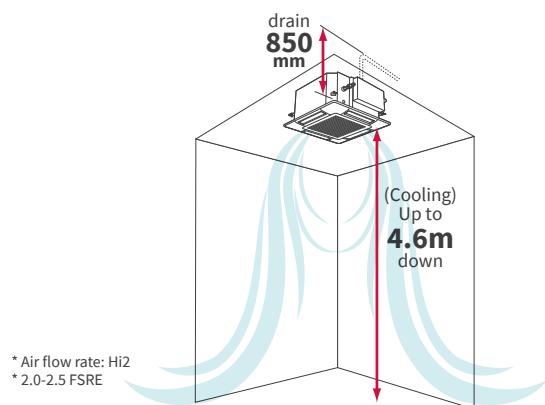
Solutions

Ceiling cassettes

2-WAY CASSETTE
(DC) [RCD-FSR]

① **Individually controlled louvers.**

Tailor the air flow direction to both ends of the room.

Horizontally-blowing air (imperceptible, above-the-head air circulation)

25°

60°

Louver opens up to
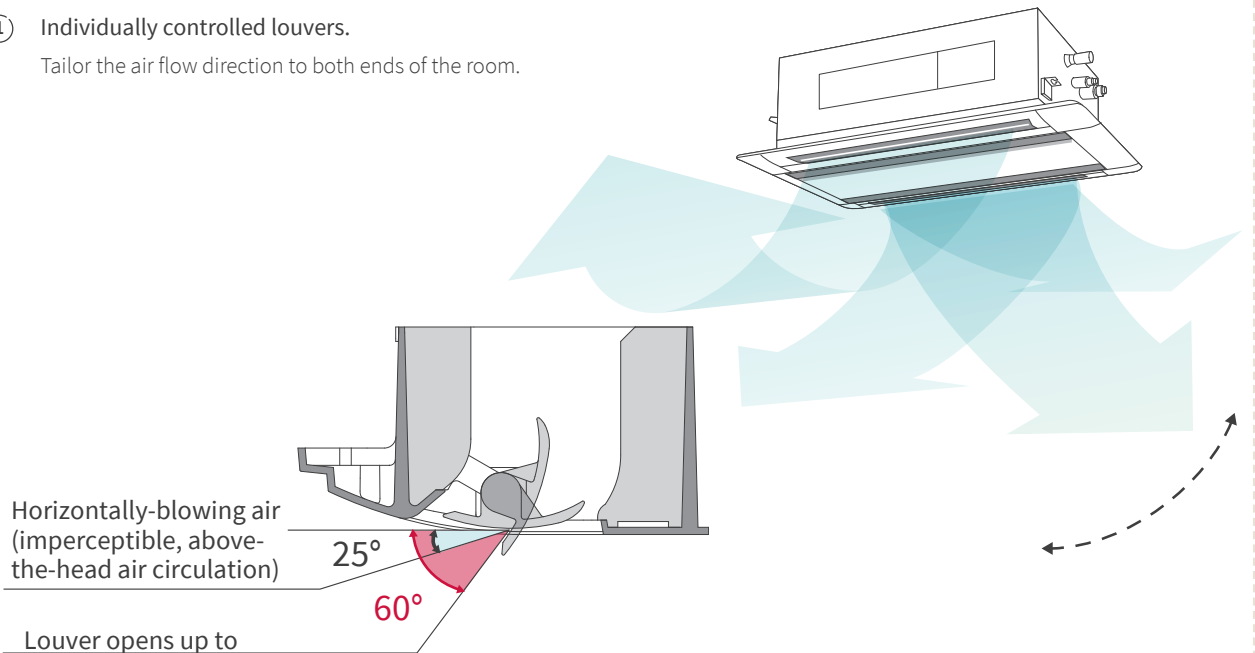
② **Facilitated installation.**

Easier height Adjustment

Panel

Corner pocket
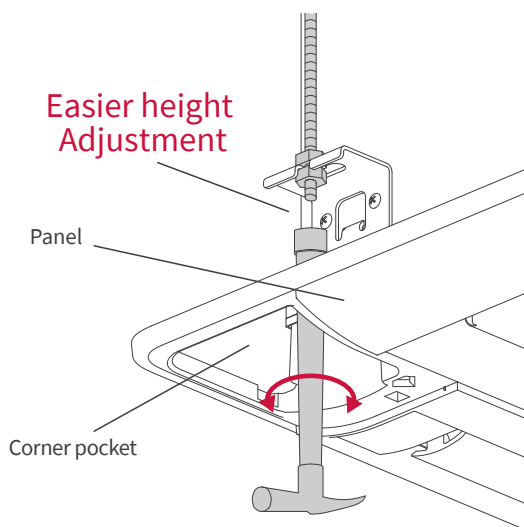
③ **Suitable for high ceilings.**

Standard drain pump: up to 850mm rise.
* Air flow rate: Hi2
* 2.0-6.0 FSR

drain **850 mm**

(Cooling) Up to **4.6m** down
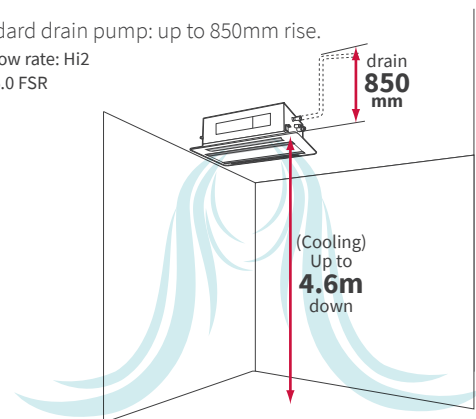
④ **FrostWash™**

Long lasting performance
FrostWash™ can remove dirt from the coil and discharge it to outside together with condensate water, thus to maintain airflow and capacity. (See page 43)

NEW

1-WAY CASSETTE

(DC) [RCS-FSR]

① 3 types of installation.
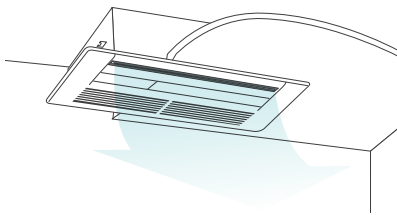
In corner with open louvers (typical).

Allows for ceiling planning for lighting and interiors, suitable for installation near the window.
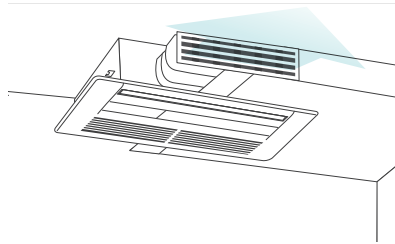
With closed louvers & ceiling horizontal vent.

Suitable for design that focuses on lighting and suspended ceilings, in case the unit is unable to be directly embedded in the ceiling.
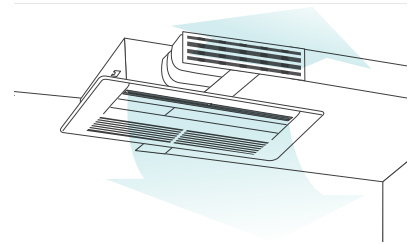
Open louver & ceiling horizontal vent.

Get two directions with 1-way cassette! Connect the cassette with a horizontal vent on the side, and create both downward air flow and horizontal air flow at the same time.

② Whisper quiet sound level.

Reduced sound pressure thanks to new design in fan inlet and fan.

	2.2kW	2.8kW	4.0KW 5.6KW	7.1kW	8.0kW
	27	**28**	**31**	**32**	**33**

Sound pressure level (dB(A))

20dB(A) CLOCK

30dB(A) MIDNIGHT
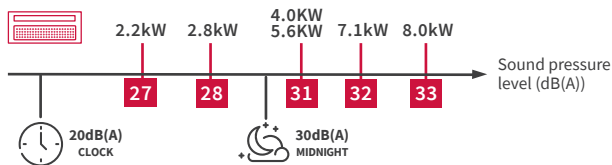
③ FrostWash™

Long lasting performance

FrostWash™ can remove dirt from the coil and discharge it to outside together with condensate water, thus to maintain airflow and capacity. (See page 43)

④ Suitable for high ceilings.
Standard drain pump: up to 850mm lift.

drain
850 mm

(Cooling)
Up to
5.3m
down
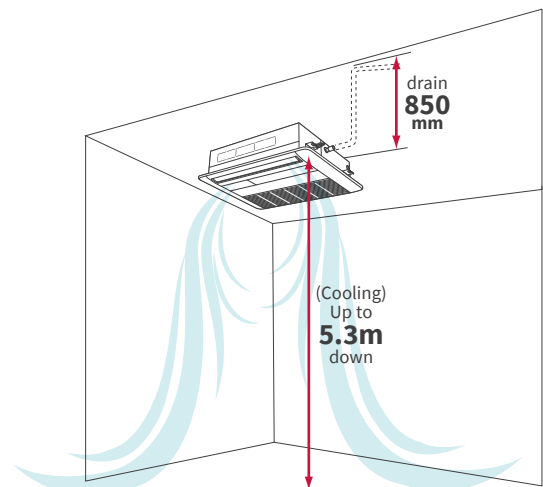
*Air flow rate: Hi2
*2.5-3.0 FSR
*standard corner type

Solutions
Other indoor units

WIDE RANGE OF MODELS FOR MINIMAL INSTALLATION WORKS

The new SideSmart™ range offers our widest choice of indoor units to give you the versatility to complement any interior.

NEW

WALL MOUNTED (DC)
[RPK-FSRM, RPK-FSRHM]
- Minimal installation procedure.
- Flexible discreet design suitable for any interior.
- Available without expansion valve for extra-quiet operation (0.6-1.5HP).
- GentleCool available, to prevent the perception of a cold draft when cooling starts.

WALL MOUNTED (AC)
[RPK-FSNQS]
- Flexible piping layout.
- Flexible discreet design suitable to any interior.

FLOOR/CEILING CONVERTIBLE (AC)
[RPFC-FSNQ]
- 2-in-1: versatile unit which can be either floor mounted or ceiling suspended.
- Minimal installation work.
- Suitable for fresh air intake.

NEW

CEILING SUSPENDED (DC)
[RPC-FSR]
- Suitable to high ceilings, with long cooling flow up to 5.6m.
- Optional motion sensor for extra savings.
- Whisper quiet operation down to 28dB(A).
- GentleCool available, to prevent the perception of a cold draft when cooling starts.

FLOOR EXPOSED (AC)
[RPF-FSN2E]
- Easy installation.
- Space saving slim unit (220mm depth).
- 630mm height only, ideal for under-the-window installation.

FLOOR CONCEALED (AC)
[RPFI-FSN2E] / [RPFI-FSNQ]
- Ideal for spaces without ceiling plenum, can be visually hidden in floor cavities and along the walls.
- Space saving slim unit (only 202/220mm deep).
- Only 620mm high, ideal for under-the-window installation.

From 1.7kW to 16kW

Concealed & exposed indoor units	Cooling (kW)	1.7	2.2	2.8	3.6	4.0	4.3	5.0	5.6	6.3	7.1	8.0	8.4	9.0	11.2	14.0	14.2	16.0
NEW WALL MOUNTED (DC) [RPK-FSRM, RPK-FSRHM]			●	●		●			●		●	●			●			
WALL MOUNTED (AC) [RPK-FSNQS]			●	●	●	●		●	●	●								
FLOOR / CEILING CONVERTIBLE (AC) [RPFC-FSNQ]								●	●	●	●		●	●	●		●	
NEW CEILING SUSPENDED (DC) [RPC-FSR]						●			●		●	●			●	●		●
FLOOR EXPOSED (AC) [RPF-FSN2E]				●		●			●		●							
FLOOR CONCEALED (AC) [RPFI-FSN2E]				●		●			●		●							
FLOOR CONCEALED (AC) [RPFI-FSNQ]				●			●		●		●							

FEATURES COMPARISON

		WALL MOUNTED	WALL MOUNTED	FLOOR/CEILING CONVERTIBLE	CEILING SUSPENDED	FLOOR EXPOSED	FLOOR CONCEALED
Model		**NEW** RPK-FSRM RPK-FSRHM	RPK-FSNQS	RPFC-FSNQ	**NEW** RPC-FSR	RPF-FSN2E	RPFI-FSN2E RPFI-FSNQ
COMFORT	Temperature Setting Rate	0.5°C/1.0°C	1.0°C	1.0°C	0.5°C/1.0°C	1.0°C	1.0°C
	Fan Speed	4 taps	3 taps	3 taps	4 taps	3 taps	3 taps
	Louver Direction	7 (*5)	7 (*5)	7 (*5)	7 (*5)	-	-
	Individual Louver Setting	-	-	-	-	-	-
	Auto Louver Setting	-	●	-	-	-	-
	Dry mode Availability	●	●	●	●	●	●
	Setback (Away Function)	●	-	-	●	-	-
	Cold Draft Prevention Availability (*1)(*6)	●	-	●	●	●	●
	Comfort setting — Control Cool Air (GentleCool) (*2)	●	-	-	●	-	-
	Direct/Indirect louver direction in COOL	-	-	-	-	-	-
	Direct/Indirect louver direction in HEAT	-	-	-	-	-	-
	FeetWarm air flow control	-	-	-	-	-	-
	FloorSense Cool air flow control	-	-	-	-	-	-
POWER-SAVING	Power Saving with Motion Sensor (*2)	-	-	-	●	-	-
	Outdoor Unit capacity control (*2) — Peak cut control	●	-	-	●	-	-
	Outdoor Unit capacity control (*2) — Moderate control	●	-	-	●	-	-
	Indoor Unit Rotation Control (*2) — Indoor Unit Address	●	-	-	●	-	-
	Indoor Unit Rotation Control (*2) — Indoor Air Temperature difference	●	-	-	●	-	-
	Automatic Fan Operation	●	●	●	●	●	●
MENU	AutoBoost (quick function)	●	-	-	●	-	-
	Daylight Saving Time	●	●	●	●	●	●
	Power Consumption visualization (*2)	●	-	-	●	-	-
	Weekly Schedule Setting	●	●	●	●	●	●
	Power-Saving Setting (*2)	●	-	-	●	-	-
MAINTENANCE	**NEW** FrostWash™ auto-cleaning	-	-	-	●	-	-
	Filter cleaning reminder	●	●	●	●	●	●
	Check Menu — Sensor Condition Check	●	●	●	●	●	●
	Check Menu — Model Display (*2)	-	-	-	●	-	-
	Check Menu — Indoor/Outdoor PCB Check	●	●	●	●	●	●
	Check Menu — Alarm History Display	●	●	●	●	●	●
OPTIONAL ACCESSORY	Motion Sensor	-	-	-	SOR-NEP	-	-
	Receiver Kit for wireless remote controller	PC-ALHZ1	PC-RLH11 (*7) PC-ALHZ1	PC-RLH11 (*7) PC-ALHZ1	PC-ALHP1	PC-ALHZ1	PC-RLH11 (*7) PC-ALHZ1
	Drain-up mechanism availability	-	-	-	DUPC-63K1 DUPC-71K1 DUPC-160K1	-	-
	Air filter	-	● (*6)	-	-	-	-
	Strainer kit	MSF-NP63A1 MSF-NP112A1 MSF-NP36AH1	MSF-NP63A1	-	-	-	-

(*1) This function is utilized to prevent cold discharged air at start-up of heating operation, after defrosting operation, etc.
(*2) Advanced wired remote controller PC-ARF1 needs to be connected.
(*3) Included as standard equipment.
(*4) 7 steps are avilable by individual louver setting. 5 steps only in the operation of Cooling or Dry.
(*5) 5 steps only in the operation of Cooling or Dry.
(*6) Please consult your distributor for the availability.
(*7) Basic Receiver kit (PC-RLH11) is equipped with the unit in package as standard optional part with Wireless Remote Controller (PC-LH7QE).

Solutions

Other indoor units

NEW

WALL MOUNTED

(DC) [RPK-FSRM, RPK-FSRHM]

1) Simple installation procedure.

2) Flexible discreet design suitable for any interior.

3) Without expansion-valve model available for 0.6-1.5HP class for more silent operation.

4) Hotel Setback feature available, leading to better operation. (See page 42)

5) GentleCool control to ensure you are not bothered by cold draft. (See page 36)

WALL MOUNTED
(AC) [RPK-FSNQS]

Discontinued in 2021.
Please consult your distributor for more detail.

1) **Simple installation procedure.**
   Refrigerant piping can be connected from the rear, base, or left of the unit, providing much greater flexibility for piping and selection of installation sites.

2) **Flexible design suitable for any décor.**
   With smooth flat covers, the units match most modern interiors. Their compact size enables them to blend in, even in small spaces.

3) **Easy maintenance.**
   Front flat panel keeps the unit from dust and facilitates maintenance work. The front grille hinges open easily—no tools are needed to gain quick access to the filter. The filter can be removed and cleaned as required.

VARIABLE REFRIGERANT FLOW SYSTEM

61

SideSmart™

Solutions

Other indoor units

FLOOR/CEILING CONVERTIBLE
(AC) [RPFC-FSNQ]

① **2-in-1 versatile unit.**

Ceiling-suspended installation.
Supplies air to a wide area. Suitable for higher ceilings.
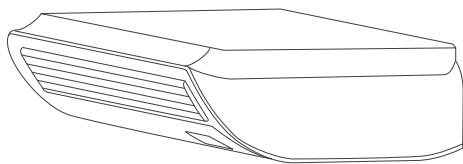
Floor-mounted installation.
Smaller footprint: only 230mm in depth. Suitable for installation beneath a window thanks to the 680mm height.
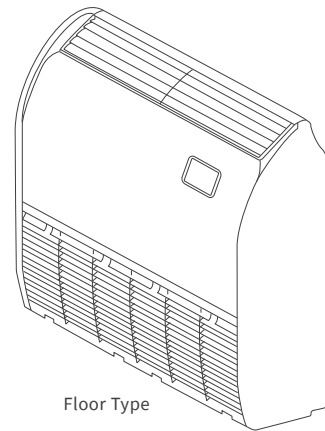
Ceiling Type

Floor Type

② **New air-intake design.**
Equipped with air-intakes, the unit can be connected to ventilation equipment such as a Total Heat Exchanger using a duct, providing better interior air quality.

NEW

CEILING SUSPENDED

(DC) [RPC-FSR]

① 7m reach motion sensor (option: SOR-NEP).

Use a motion sensor for extra savings when the room is vacant.

Ceiling Height 2.7m

1.8m

7m

7m

② Auto-swing available.

Auto louver

Off   Down   Horizontal

③ 8m air flow reach.

ceiling

Floor   8m
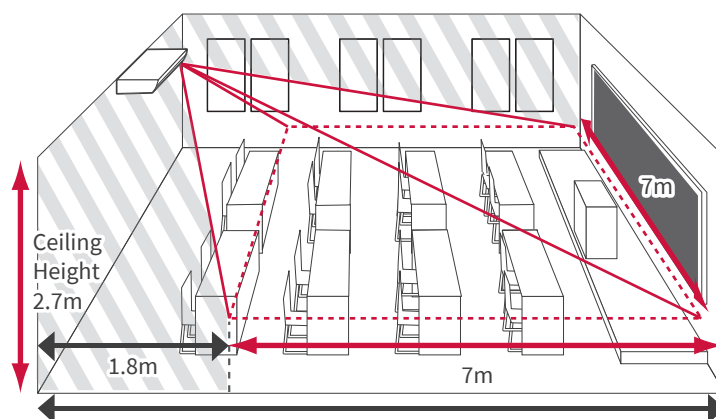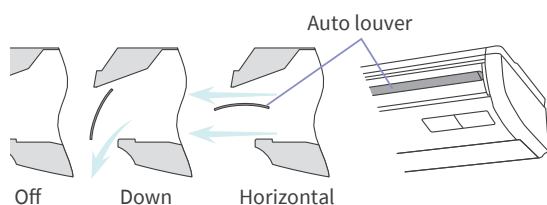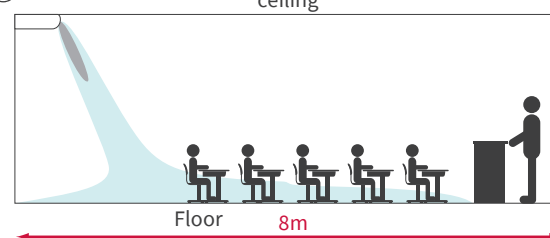
④ Decreased sound pressure, thanks to new fan inlet and fan designs.
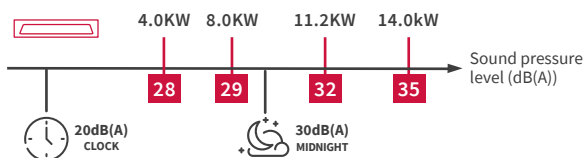
4.0KW 8.0KW 11.2KW 14.0kW

28   29   32   35

Sound pressure level (dB(A))

20dB(A) CLOCK

30dB(A) MIDNIGHT

⑥ Suitable for high ceilings.

Capacity model (HP)	1.5-3.0	4.0-6.0
Air flow height (m)	3.5	4.3

* air flow volume: high

(Option) drain
600 mm

(Cooling) Up to
5.6m down

* Air flow rate: Hi2
* 4.0-6.0 FSR

⑤ FrostWash™

Long lasting performance
FrostWash™ can remove dirt from the coil and discharge it to outside together with condensate water, thus to maintain airflow and capacity. (See page 43)
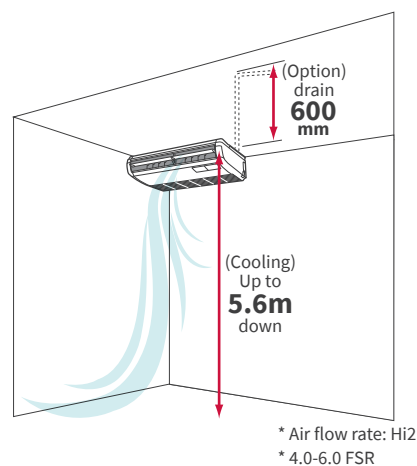
Solutions

Other indoor units

FLOOR EXPOSED
(AC) [RPF-FSN2E]

· Floor Exposed units can be installed with a minimum of disruption to walls and floors, making them an excellent retrofitting option.

· The 220mm depth means that little installation space is required.

· With a total height of up to 630mm, they are well suited to installation beneath a window.

Air outlet

Air inlet

1,045mm
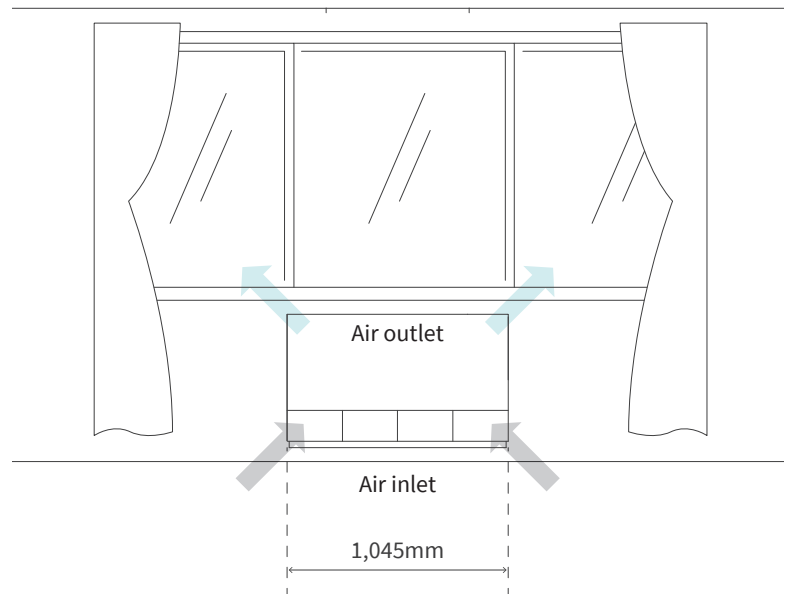
FLOOR CONCEALED

(AC) [RPFI-FSN2E]

· Blends unobtrusively with any interior décor: only the suction and discharge grilles are visible.

· Its low height (only 620mm) enables the unit to fit perfectly beneath a window.

· Requires little installation space thanks to its slim 220mm depth.

848-1,223mm

Air outlet

Cavity that conceals the unit

620mm

Air inlet

220mm
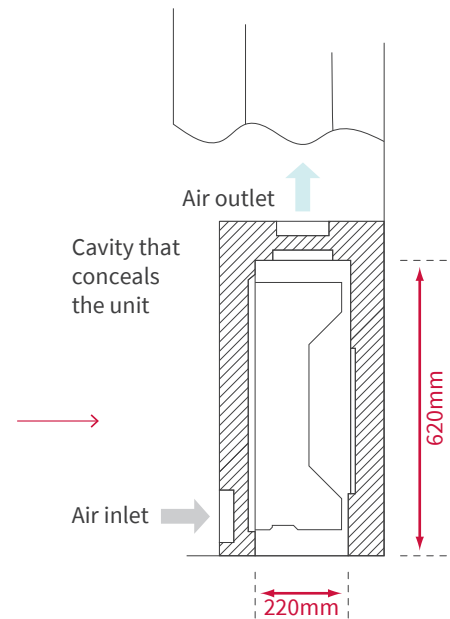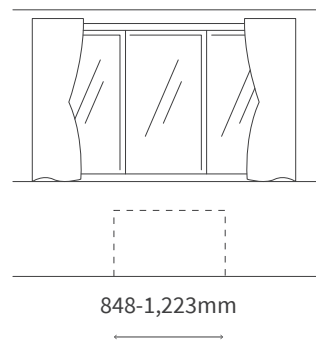
FLOOR CONCEALED

(AC) [RPFI-FSNQ]

· Blends unobtrusively with any interior décor: only the suction and discharge grilles are visible.

· Its low height (only 620mm) enables the unit to fit perfectly beneath a window.

· Requires little installation space thanks to its slim 202mm depth.

900-1,170mm

Air outlet

Cavity that conceals the unit

620mm

Air inlet

202mm

VARIABLE REFRIGERANT FLOW SYSTEM

65

SideSmart™

Specifications & accessories

NEW
HIGH ESP HIGH EXTERNAL STATIC PRESSURE
(DC) [RPI-FSR, RPI-FSN1]

Model			RPI-2.0FSR	RPI-2.5FSR	RPI-3.0FSR	RPI-4.0FSR	RPI-5.0FSR	RPI-6.0FSR	RPI-8.0FSN1	RPI-10.0FSN1
Indoor Unit Power Supply			AC 1Φ, [220-240V/50Hz] [220V/60Hz]							
Nominal Cooling Capacity		kW	5.6	7.1	8.0	11.2	14.0	16.0	22.4	28.0
Nominal Heating Capacity		kW	6.3	8.5	9.0	12.5	16.0	18.0	25.0	31.5
Sound Pressure Level (Overall A Scale)(Hi2/Hi/Me/Lo)		dB(A)	41/38/35/32	37/35/32/30	39/36/33/31	40/37/34/32	42/39/36/33	44/40/37/34	44/40/37/34	44/40/37/34
Sound Power Level (Overall A Scale)(Hi2/Hi/Me/Lo)		dB(A)	59/56/53/50	55/53/50/48	57/54/51/49	58/55/52/50	60/57/54/51	62/58/55/52	45/43/40/36	50/48/46/39
Outer Dimensions	H×W×D	mm	300×700×800	300×1,050×800	300×1,050×800	300×1,400×800	300×1,400×800	300×1,400×800	470×1,380×1,060	470×1,380×1,060
Net Weight		kg	29	38	38	48	48	48	94	94
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Indoor Fan	Air Flow Rate (Hi2/Hi/Me/Lo)	m³/min (cfm)	14.5/13/11/9.5 (512/459/388/335)	18.5/16.5/14.5/12 (653/582/512/423)	20/17.5/15.5/13 (706/618/547/459)	30/26.5/23/20 (1,059/935/812/706)	33.5/29.5/26/22 (1,182/1,041/917/776)	36/31.5/27.5/24 (1,270/1,112/970/847)	63/58/50/38 (2,224/2,048/1,765/1,341)	80/72/64/48 (2,825/2,542/2,260/1,695)
External Pressure (*3)		Pa	50(100-200)	50(100-200)	50(100-200)	50(100-200)	50(100-200)	50(100-200)	50(100-230)	50(100-230)
Motor		W	157	190	190	259	259	259	840	840
Connections		m³	Flare-Nut Connection (with Flare Nuts)							
Refrigerant Piping	Liquid Line	mm	Φ6.35	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas Line	mm	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ19.05	Φ22.2
	Condensate Drain		VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25
Approximate Packing Measurement		m³	0.28	0.39	0.39	0.50	0.50	0.50	0.97	0.97

Receiver kit	Advanced	PC-ALHZ1
Motion Sensor		SOR-NEZ
Condensate Drain Pump Kit		- (included as standard equipment)
Antifungal Long-Life Filter	2.0 (HP)	F-56LI
	2.5-3.0 (HP)	F-90LI
	4.0-6.0 (HP)	F-160LI
Filter Box for Long-Life Filter	2.0 (HP)	B-56LI
	2.5-3.0 (HP)	B-90LI
	4.0-6.0 (HP)	B-160LI
Long-Life Filter Kit/ Long-Life Filter	8.0-10.0 (HP)	F-280LI
MotioFilter Boxn Sensor	8.0-10.0 (HP)	B-280LI

Notes:
1. The nominal cooling 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:..........27.0°C DB
19.0°C WB
Outdoor Air Inlet Temperature: .....35.0°C DB
Piping Length:7.5 metre
Piping Lift:0 metre

Heating Operation Conditions
Indoor Air Inlet Temperature:..........20.0°C DB
Outdoor Air Inlet Temperature: .....7.0°C DB
6.0°C WB
Piping Length:7.5 metre
Piping Lift:0 metre

2. The sound pressure level is based on following conditions. 1.5 metre Beneath the Unit. With Discharge Duct (2.0 metre) and Return Duct (1.0 metre). 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.

3. The data for external pressure (*3) indicates "Standard Pressure Setting (High Pressure Setting1 - High Pressure Setting2)" values when a filter is not used. The sound pressure level is based on the Standard Pressure Setting.

NEW
MEDIUM ESP MEDIUM EXTERNAL STATIC PRESSURE
(DC) [RPIM-FSR]

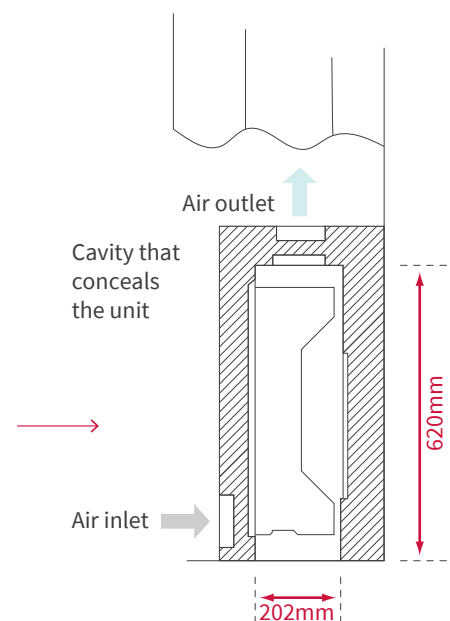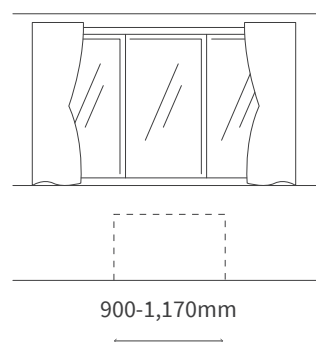| Model			RPIM-0.8FSR	RPIM-1.0FSR	RPIM-1.5FSR	RPIM-2.0FSR	RPIM-2.5FSR	RPIM-3.0FSR	RPIM-4.0FSR	RPIM-5.0FSR	RPIM-6.0FSR
Indoor Unit Power Supply			AC 1Φ, [220-240V/50Hz] [220V/60Hz]								
Nominal Cooling Capacity		kW	2.2	2.8	4.0	5.6	7.1	8.0	11.2	14.0	16.0
Nominal Heating Capacity		kW	2.5	3.2	4.8	6.3	8.5	9.0	12.5	16.0	18.0
Sound Pressure Level (Overall A Scale)(Hi2/Hi/Me/Lo)		dB(A)	32/30/28/27	33/31/29/28	38/35/32/30	40/37/34/31	37/35/33/31	38/36/33/31	40/38/35/32	42/39/36/34	43/40/37/34
Sound Power Level (Overall A Scale)(Hi2/Hi/Me/Lo)		dB(A)	50/48/46/45	51/49/47/46	56/53/50/48	58/55/52/49	55/53/51/49	56/54/51/49	58/56/53/50	60/57/54/52	61/58/55/52
Outer Dimensions	H×W×D	mm	250×700×800	250×700×800	250×700×800	250×700×800	250×1,050×800	250×1,050×800	250×1,400×800	250×1,400×800	250×1,400×800
Net Weight		kg	26	26	27	27	36	36	44	44	44
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Indoor Fan	Air Flow Rate (Hi2/Hi/Me/Lo)	m³/min (cfm)	8.5/7.5/6.5/5.5 (300/265/229/194)	9.5/8.5/7.5/6.5 (335/300/265/229)	13/11.5/10/8.5 (459/406/353/300)	14.5/13/11/9.5 (512/459/388/335)	18.5/16.5/14/12 (653/582/494/423)	20/17.5/15.5/13 (706/618/547/459)	30/26.5/23/20 (1,059/935/812/706)	33.5/29.5/26/22 (1,182/1,041/917/776)	36/31.5/27.5/24 (1,270/1,112/970/847)
External Pressure (*3)		Pa	50(100-150)	50(100-150)	50(100-150)	50(100-150)	50(100-150)	50(100-150)	50(100-150)	50(100-150)	50(100-150)
Motor		W	157	157	157	157	190	190	259	259	259
Connections		m³	Flare-Nut Connection (with Flare Nuts)								
Refrigerant Piping	Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas Line	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88
	Condensate Drain		VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25
Approximate Packing Measurement		m³	0.24	0.24	0.24	0.24	0.33	0.33	0.42	0.42	0.42

Receiver kit	Advanced	PC-ALHZ1
Motion Sensor		SOR-NEZ
Condensate Drain Pump Kit		- (included as standard equipment)
Antifungal Long-Life Filter	0.8-2.0 (HP)	F-56LI
	2.5-3.0 (HP)	F-90LI
	4.0-6.0 (HP)	F-160LI
Filter Box for Long-Life Filter	0.8-2.0 (HP)	B-56LI
	2.5-3.0 (HP)	B-90LI
	4.0-6.0 (HP)	B-160LI

Notes:
1. The nominal cooling 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:..........27.0°C DB
19.0°C WB
Outdoor Air Inlet Temperature: .....35.0°C DB
Piping Length:7.5 metre
Piping Lift:0 metre

Heating Operation Conditions
Indoor Air Inlet Temperature:..........20.0°C DB
Outdoor Air Inlet Temperature: .....7.0°C DB
6.0°C WB
Piping Length:7.5 metre
Piping Lift:0 metre

2. The sound pressure level is based on following conditions. 1.5 metre Beneath the Unit. With Discharge Duct (2.0 metre) and Return Duct (1.0 metre). 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.

3. The data for external pressure (*3) indicates "Standard Pressure Setting (High Pressure Setting1 - High Pressure Setting2)" values when a filter is not used. The sound pressure level is based on the Standard Pressure Setting.

HIGH ESP HIGH EXTERNAL STATIC PRESSURE

(AC) [RPIH-HNAUNQ, RPI-FSNQ]

Model			RPIH-3.0HNAUNQ	RPIH-3.3HNAUNQ	RPIH-4.0HNAUNQ	RPIH-5.0HNAUNQ	RPIH-6.0HNAUNQ	RPI-8.0FSNQ	RPI-10.0FSNQ
Indoor Unit Power Supply			AC 1Φ, [220-240V/50Hz]					AC 3Φ, [380-415V/50Hz]	
Nominal Capacity	Cooling	kW	8.4	9.0	11.2	14.2	16.0	22.4	28.0
	Heating	kW	9.6	10.0	13.0	16.3	18.0	25.0	31.5
Sound Pressure Level	(Hi/Me/Lo)	dB(A)	42/39/34	42/39/34	43/39/34	44/41/37	48/42/37	50	52
Outer Dimension	H×W×D	mm	300×1,175×800	300×1,175×800	300×1,175×800	300×1,475×800	300×1,475×800	470×1,060×1,120	470×1,250×1,120
Net Weight		kg	45	45	45	53	54	96	104
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi/Me/Lo)	m³/min	30/28/23	30/28/23	30/28/23	35.5/32/27	41/33/26	58	72
External Static Pressure (*3)		Pa	120(90)	120(90)	120(90)	120(90)	120(90)	180	180
Connections			Flare-Nut Connection (with Flare Nuts)					Brazing	
Refrigerant Piping Diameter	Liquid Line	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas Line	mm	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ19.05	Φ22.23
Condensate Drain			VP25	VP25	VP25	VP25	VP25	VP25	VP25
Approximate Packing Volume		m³	0.40	0.40	0.40	0.49	0.49	0.90	1.06

Receiver Kit	Basic	PC-RLH11
	Advanced	PC-ALHZ1
Condensate Drain Pump Kit	PRIH-HNAUNQ	DUPI-361Q
	PRI-FSNQ	DUPI-15H2Q
Air filter	3.0-4.0 (HP)	KW-PP9Q
	5.0-6.0 (HP)	KW-PP10Q

Notes:
1. The cooling capacities above show the maximum capacities when the outdoor and indoor temperature are under the following conditions.

Cooling Operation Conditions
Indoor Air Inlet Temperature:..........27.0°C DB
                                        19.0°C WB
Outdoor Air Inlet Temperature: .....35.0°C DB
Piping Length:7.5 metre
Piping Lift:0 metre

Heating Operation Conditions
Indoor Air Inlet Temperature:..........20.0°C DB
Outdoor Air Inlet Temperature: .....7.0°C DB
                                        6.0°C WB
Piping Length:7.5 metre
Piping Lift:0 metre

2. The sound pressure level is based on following conditions. 1.4 metre Beneath the unit.
With Discharge Duct (2.0 metre) and Return Duct (1.0 metre). 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 1~2dB(A).)
The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

3. The data for external pressure (*3) indicates "Standard Pressure Setting values when a filter is not used.

MEDIUM ESP MEDIUM EXTERNAL STATIC PRESSURE

(AC) [RPIM-HNAUNQ, RPI-FSN3Q]

Model			RPIM-0.8HNAUNQ	RPIM-1.0HNAUNQ	RPIM-1.3HNAUNQ	RPIM-1.5HNAUNQ	RPIM-1.8HNAUNQ	RPIM-2.0HNAUNQ	RPIM-2.3HNAUNQ	RPIM-2.5HNAUNQ	RPI-8.0FSN3Q	RPI-10.0FSN3Q
Indoor Unit Power Supply			AC 1Φ, [220-240V/50Hz]								AC 3Φ, [380-415V/50Hz]	
Nominal Capacity	Cooling	kW	2.2	2.8	3.6	4.3	5.0	5.6	6.3	7.1	22.4	28.0
	Heating	kW	2.8	3.3	4.2	4.9	5.6	6.5	7.5	8.5	25.0	31.5
Sound Pressure Level	(Hi/Me/Lo)	dB(A)	32/27/24	32/27/24	35/33/28	35/33/28	35.5/33/28	35.5/33/28	39/34/26	39/34/26	50	52
Outer Dimension	(H×W×D)	mm	270×725×720	270×725×720	270×725×720	270×725×720	270×975×720	270×975×720	270×975×720	270×975×720	470×1,060×1,120	470×1,250×1,120
Net Weight		kg	24	24	25	25	31	31	32	32	96	104
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi/Me/Lo)	m³/min	10/8/7	10/8/7	12/11/9	12/11/9	16/14/11.5	16/14/11.5	20/16/11	20/16/11	58(56*)	72(70*)
External Static Pressure (*3)		Pa	50(80)	50(80)	50(80)	50(80)	50(80)	50(80)	50(80)	50(80)	100	100
Connections			Flare-Nut Connection (with Flare Nuts)								Brazing	
Refrigerant Piping Diameter	Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas Line	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ19.05	Φ22.23
Condensate Drain			VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25
Approximate Packing Volume		m³	0.22	0.22	0.22	0.22	0.28	0.28	0.28	0.28	0.90	1.06

Receiver Kit	Basic	PC-RLH11
	Advanced	PC-ALHZ1
Condensate Drain Pump Kit	0.8-2.5 (HP)	DUPI-131Q
	8.0-10.0 (HP)	DUPI-15H2Q
Air filter	0.8-1.5 (HP)	KW-PP7Q
	1.8-2.5 (HP)	KW-PP8Q

Notes:
1. The cooling capacities above show the maximum capacities when the outdoor and indoor temperature are under the following conditions.

Cooling Operation Conditions
Indoor Air Inlet Temperature:..........27.0°C DB
                                        19.0°C WB
Outdoor Air Inlet Temperature: .....35.0°C DB
Piping Length:7.5 metre
Piping Lift:0 metre

Heating Operation Conditions
Indoor Air Inlet Temperature:..........20.0°C DB
Outdoor Air Inlet Temperature: .....7.0°C DB
                                        6.0°C WB
Piping Length:7.5 metre
Piping Lift:0 metre

2. The sound pressure level is based on following conditions. 1.4 metre Beneath the unit. With Discharge Duct (2.0 metre) and Return Duct (1.0 metre). 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 1~2dB(A).) The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

3. The data for external pressure (*3) indicates "Standard Pressure Setting values when a filter is not used.

Specifications & accessories

LOW ESP LOW EXTERNAL STATIC PRESSURE

(AC) [RPIL-HNAUNQ]

Model			RPIL-0.8HNAUNQ	RPIL-1.0HNAUNQ	RPIL-1.3HNAUNQ	RPIL-1.5HNAUNQ	RPIL-1.8HNAUNQ	RPIL-2.0HNAUNQ	RPIL-2.3HNAUNQ
Indoor Unit Power Supply			AC 1Φ, [220-240V/50Hz]						
Nominal Capacity	Cooling	kW	2.2	2.8	3.6	4.3	5.0	5.6	6.3
	Heating	kW	2.8	3.3	4.2	4.9	5.6	6.5	7.5
Sound Pressure Level	(Hi/Me/Lo)	dB(A)	28/25/22	28/25/22	34/32/30	34/32/30	34/32/29	34/32/29	36.5/30.5/25
Outer Dimension	(H×W×D)	mm	270×725×720	270×725×720	270×725×720	270×725×720	270×975×720	270×975×720	270×975×720
Net Weight		kg	24	24	25	25	31	31	32
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi/Me/Lo)	m³/min	9/8/7	9/8/7	13/11/9	13/11/9	15/14/12	15/14/12	21/14/11
External Static Pressure (*3)		Pa	30	30	30	30	30	30	30
Connections			Flare-Nut Connection (with Flare Nuts)						
Refrigerant Piping Diameter	Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.52
	Gas Line	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88
Condensate Drain			VP25	VP25	VP25	VP25	VP25	VP25	VP25
Approximate Packing Volume		m³	0.22	0.22	0.22	0.22	0.28	0.28	0.28

Model			RPIL-2.5HNAUNQ	RPIL-3.0HNAUNQ	RPIL-3.3HNAUNQ	RPIL-4.0HNAUNQ	RPIL-5.0HNAUNQ	RPIL-6.0HNAUNQ
Indoor Unit Power Supply			AC 1Φ, [220-240V/50Hz]					
Nominal Capacity	Cooling	kW	7.1	8.4	9.0	11.2	14.2	16.0
	Heating	kW	8.5	9.6	10.0	13.0	16.3	18.0
Sound Pressure Level	(Hi/Me/Lo)	dB(A)	36.5/30.5/25	38/30/24	38/30/24	38/35/31	44/39/35	46/41/35
Outer Dimension	(H×W×D)	mm	270×975×720	300×1,175×800	300×1,175×800	300×1,175×800	300×1,475×800	300×1,475×800
Net Weight		kg	32	45	45	45	53	54
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi/Me/Lo)	m³/min	21/14/11	29/25/21	29/25/21	29/25/21	36/31/26	42/34/26
External Static Pressure (*3)		Pa	30	60	60	60	60	60
Connections			Flare-Nut Connection (with Flare Nuts)					
Refrigerant Piping Diameter	Liquid Line	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas Line	mm	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88
Condensate Drain			VP25	VP25	VP25	VP25	VP25	VP25
Approximate Packing Volume		m³	0.28	0.40	0.40	0.40	0.49	0.49

Receiver Kit	Basic	PC-RLH11
	Advanced	PC-ALHZ1
Condensate Drain Pump Kit	0.8-2.5 (HP)	DUPI-131Q
	3.0-6.0 (HP)	DUPI-361Q

Air filter	0.8-1.5 (HP)	KW-PP7Q
	1.8-2.5 (HP)	KW-PP8Q
	3.0-4.0 (HP)	KW-PP9Q
	5.0-6.0 (HP)	KW-PP10Q

Notes:
1. The cooling capacities above show the maximum capacities when the outdoor and indoor temperature are under the following conditions.

   Cooling Operation Conditions
   Indoor Air Inlet Temperature:.......27.0°C DB
   19.0°C WB
   Outdoor Air Inlet Temperature: ...35.0°C DB
   Piping Length: 7.5 metre
   Piping Lift: 0 metre

   Heating Operation Conditions
   Indoor Air Inlet Temperature:....... 20.0°C DB
   Outdoor Air Inlet Temperature: ... 7.0°C DB
   6.0°C WB
   Piping Length: 7.5 metre
   Piping Lift: 0 metre

2. The sound pressure level is based on following conditions. 1.4 metre Beneath the unit.
   With Discharge Duct (2.0 metre) and Return Duct (1.0 metre).
   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 1~2dB(A).)
   The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

3. The data for external pressure (*3) indicates "Standard Pressure Setting values when a filter is not used.

COMPACT
(DC) [RPIZ-HNDTSQ]
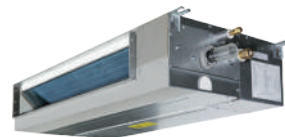
Model			RPIZ-0.8HNDTSQ	RPIZ-1.0HNDTSQ	RPIZ-1.3HNDTSQ	RPIZ-1.5HNDTSQ	RPIZ-1.8HNDTSQ	RPIZ-2.0HNDTSQ	RPIZ-2.3HNDTSQ	RPIZ-2.5HNDTSQ
Indoor Unit Power Supply			AC 1Φ, [220-240V/50Hz] [220V/60Hz]							
Nominal Capacity	Cooling	kW	2.2	2.8	3.6	4.0	5.0	5.6	6.3	7.1
	Heating	kW	2.5	3.2	4.0	4.5	5.6	6.3	7.1	8.0
Sound Pressure Level	(6 taps)	dB(A)	33/31/28/ 25/23.5/22.5	33/31/28/ 25/23.5/22.5	33/31/28/ 25/23.5/22.5	31/30/28/ 25/22/20	36/33.5/31/ 28/24.5/22.5	36/33.5/31/ 28/24.5/22.5	37/36/33/ 30/28/25	37/36/33/ 30/28/25
Outer Dimension	H×W×D	mm	192×700×447	192×700×447	192×700×447	192×910×447	192×1,180×447	192×1,180×447	192×1,180×447	192×1,180×447
Net Weight		kg	17	17	17	20	24	24	24	24
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(6 taps)	m³/min	8.5/8/7/ 6/5.5/5	8.5/8/7/ 6/5.5/5	8.5/8/7/ 6/5.5/5	10/9/8/ 7.5/6.5/6	14.5/13.2/11.8/ 10.5/9.2/8.0	14.5/13.2/11.8/ 10.5/9.2/8.0	16.5/15/13/ 12/10/9	16.5/15/13/ 12/10/9
External Static Pressure (*3)		Pa	10(0-10-30)	10(0-10-30)	10(0-10-30)	10(0-10-30)	10(0-10-50)	10(0-10-50)	10(0-10-50)	10(0-10-50)
Connections			Flare-Nut Connection (with Flare Nuts)							
Refrigerant Piping Diameter	Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52
	Gas Line	mm	Φ12.70	Φ12.70	Φ12.70	Φ12.70	Φ15.88	Φ15.88	Φ15.88	Φ15.88
Condensate Drain			VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25
Approximate Packing Volume		m³	0.142	0.142	0.142	0.15	0.18	0.18	0.18	0.18

Receiver Kit	Basic	PC-RLH11
	Advanced	PC-ALHZ1
Condensate Drain Pump Kit	-	(included as standard equipment)
Air filter	0.8-1.5 (HP)	KW-PP5Q
	1.8-2.5 (HP)	KW-PP6Q

Notes:
1. The cooling capacities above show the maximum capacities when the outdoor and indoor temperature are under the following conditions.

Cooling Operation Conditions
Indoor Air Inlet Temperature:.........27.0°C DB
19.0°C WB
Outdoor Air Inlet Temperature: .....35.0°C DB
Piping Length:7.5 metre
Piping Lift:0 metre

Heating Operation Conditions
Indoor Air Inlet Temperature:..........20.0°C DB
Outdoor Air Inlet Temperature: .....7.0°C DB
6.0°C WB
Piping Length:7.5 metre
Piping Lift:0 metre

2. The sound pressure level is based on following conditions. 1.4 metre Beneath the unit.
With Discharge Duct (2.0 metre) and Return Duct (1.0 metre).
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 1~2dB(A).)
The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

3. The data for external pressure (*3) indicates "Standard Pressure Setting values when a filter is not used.

VARIABLE REFRIGERANT FLOW SYSTEM

69

SlideSmart™

COMPACT
(AC) [RPIZ-HNATNQ]

Model			RPIZ-0.8HNATNQ	RPIZ-1.0HNATNQ	RPIZ-1.3HNATNQ	RPIZ-1.5HNATNQ	RPIZ-1.8HNATNQ	RPIZ-2.0HNATNQ	RPIZ-2.3HNATNQ	RPIZ-2.5HNATNQ
Indoor Unit Power Supply			AC 1Φ, [220-240V/50Hz]							
Nominal Capacity	Cooling	kW	2.2	2.8	3.6	4.0	5.0	5.6	6.3	7.1
	Heating	kW	2.5	3.2	4.0	4.5	5.6	6.3	7.1	8.0
Sound Pressure Level	(Hi/Me/Lo)	dB(A)	30/23/20	30/23/20	34/25/22	32.5/26/23	34/26/25	34/26/25	37/29/27	37/29/27
Outer Dimension	H×W×D	mm	192×700×447	192×700×447	192×700×447	192×910×447	192×1,180×447	192×1,180×447	192×1,180×447	192×1,180×447
Net Weight		kg	17	17	17	21	27	27	28	28
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi/Me/Lo)	m³/min	9.5/6.5/5.5	9.5/6.5/5.5	9.5/6.5/5.5	10/7/6	15/10/9	15/10/9	17/10/9	17/10/9
External Static Pressure (*3)		Pa	10(30)	10(30)	10(30)	10(30)	10(30)	10(30)	10(30)	10(30)
Connections			Flare-Nut Connection (with Flare Nuts)							
Refrigerant Piping Diameter	Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52
	Gas Line	mm	Φ12.70	Φ12.70	Φ12.70	Φ12.70	Φ15.88	Φ15.88	Φ15.88	Φ15.88
Condensate Drain			VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25
Approximate Packing Volume		m³	0.142	0.142	0.142	0.15	0.18	0.18	0.18	0.18

Receiver Kit	Basic	PC-RLH11
	Advanced	PC-ALHZ1
Condensate Drain Pump Kit	-	(included as standard equipment)
Air filter	0.8-1.5 (HP)	KW-PP5Q
	1.8-2.5 (HP)	KW-PP6Q

Notes:
1. The cooling capacities above show the maximum capacities when the outdoor and indoor temperature are under the following conditions.

Cooling Operation Conditions
Indoor Air Inlet Temperature:.........27.0°C DB
19.0°C WB
Outdoor Air Inlet Temperature: .....35.0°C DB
Piping Length:7.5 metre
Piping Lift:0 metre

Heating Operation Conditions
Indoor Air Inlet Temperature:..........20.0°C DB
Outdoor Air Inlet Temperature: .....7.0°C DB
6.0°C WB
Piping Length:7.5 metre
Piping Lift:0 metre

2. The sound pressure level is based on following conditions. 1.4 metre Beneath the unit.
With Discharge Duct (2.0 metre) and Return Duct (1.0 metre).
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 1~2dB(A).)
The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

3. The data for external pressure (*3) indicates "Standard Pressure Setting values when a filter is not used.

Specifications & accessories

LARGER AIR VOLUME
(AC) [RPI-FSN2SQ]

Model			RPI-3.0FSN2SQ	RPI-4.0FSN2SQ	RPI-5.0FSN2SQ	RPI-6.0FSN2SQ	RPI-7.0FSN2SQ
Indoor Unit Power Supply			AC 1 Φ, [220-240V/50Hz]				AC 1Φ, [240V/50Hz]
Nominal Cooling Capacity		kW	8.0	11.2	14.0	16.0	18.0
Nominal Heating Capacity		kW	9.0	12.5	16.0	18.0	20.0
Sound Pressure Level (Overall A Scale) (Hi/Me/Lo)	High Pressure Setting	dB(A)	46/44/40	48/45/41	49/46/43	53/49/45	51/47/42
	Standard Pressure Setting	dB(A)	45/43/39	47/44/40	48/45/42	52/48/44	-
Outer Dimensions	H×W×D	mm	350×1,076×800	350×1,076×800	350×1,300×800	350×1,300×800	440×1,430×550
Net Weight		kg	52	57	61	63	75
Refrigerant			R410A	R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate (Hi/Me/Lo)	High Pressure Setting	m³/min (l/s)	29/26/20 (483/433/333)	36/33/25 (600/550/417)	47/43/34 (783/717/567)	56/50/40 (933/833/667)	65/57/46 (1,083/950/767)
	Standard Pressure Setting	m³/min (l/s)	29/26/20 (483/433/333)	36/29/25 (600/483/417)	47/39/36 (783/650/600)	56/48/42 (933/800/700)	-
External Pressure (*1)		Pa	120 (70)	120 (70)	120 (70)	120 (70)	140
Motor Output		W	250	300	420	550	650
Connections			Flare-Nut Connection (with Flare Nuts)				
Refrigerant Piping	Liquid Line	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas Line	mm	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88
	Condensate Drain		VP25	VP25	VP25	VP25	VP25
Approximate Packing Measurement		m³	0.49	0.49	0.57	0.57	0.54

Receiver kit	Basic	PC-RLH11
	Advanced	PC-ALHZ1

Notes:
1. The cooling capacities above show the maximum capacities when the outdoor and indoor temperature are under the following conditions.

Cooling Operation Conditions
Indoor Air Inlet Temperature:........... 27.0°C DB
         19.0°C WB
Outdoor Air Inlet Temperature: .... 35.0°C DB
Piping Length: 7.5 metre
Piping Lift: 0 metre

Heating Operation Conditions
Indoor Air Inlet Temperature:...........20.0°C DB
Outdoor Air Inlet Temperature: ....7.0°C DB
      6.0°C WB
Piping Length: 7.5 metre
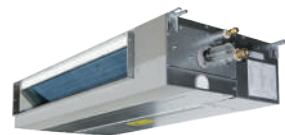Piping Lift: 0 metre

2. The sound pressure level is based on following conditions. 1.5 metre Beneath the Unit. With Discharge Duct (2.0 metre) and Return Duct (1.0 metre). 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(A). The data in the table above was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

3. The data for external pressure (*1) indicates "High Pressure Setting (Standard Pressure Setting)" values when a filter is not used. The sound pressure level is based on the Standard Pressure Setting.

NEW

4-WAY CASSETTE
(DC) [RCI-FSRP]

Neutral White · Beige · Gray · Black

Model

Indoor Unit Power Supply			RCI-1.0FSRP	RCI-1.5FSRP	RCI-2.0FSRP	RCI-2.5FSRP	RCI-3.0FSRP	RCI-4.0FSRP	RCI-5.0FSRP	RCI-6.0FSRP
			AC 1Φ, [220-240V/50Hz] [220V/60Hz]							
Nominal Capacity	Cooling	kW	2.8	4.0	5.6	7.1	8.0	11.2	14.0	16.0
	Heating	kW	3.2	4.8	6.3	8.5	9.0	12.5	16.0	18.0
Sound Pressure Level	(Hi2/Hi/Me/Lo)	dB(A)	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	48/46/41/37
Outer Dimension	(H×W×D)	mm	248×840×840	248×840×840	248×840×840	248×840×840	298×840×840	298×840×840	298×840×840	298×840×840
Net Weight		kg	20	21	21	22	26	26	26	26
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi2/Hi/Me/Lo)	m³/min	15/13/11/9	21/17/14/11	22/17/14/11	27/23/18/14	27/23/18/14	37/31/24/20	37/33/26/21	37/35/28/22
Connections			Flare-Nut Connection (with flare Nuts)							
Refrigerant Piping Diameter	Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas Line	mm	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88
Condensate Drain			VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25
Approximate Packing Volume		m³	0.21	0.21	0.21	0.21	0.25	0.25	0.25	0.25

Decoration panel	Twin-Sense panel	P-AP160NAE2
	Standard (without sensor)	P-AP160NA3
Receiver kit	Advanced	PC-ALH3
Condensate Drain Pump Kit		- (Standard)
Duct Adapter		PD-75A
Fresh Air Intake Kit		OACI-160K3

3-Way Outlet Parts Set		PI-160LS2
T-Pipe Connection Kit		TKCI-160K
Antibacterial Long Life Air Filter		F-160L-K
Deodorant Air Filter	1.0-2.5 (HP)	F-71L-D1
	3.0-6.0 (HP)	F-160L-D1
Filter Box		B-160H3

Notes:
1. The cooling and heating capacities above show the maximum capacities when the outdoor and indoor temperature are under the following conditions.

Cooling Operation Conditions
Indoor Air Inlet Temperature:......................27.0°C DB
......................19.0°C WB
Outdoor Air Inlet Temperature: ....35.0°C DB
Piping Length:7.5 metre
Piping Lift:0 metre

Heating Operation Conditions
Indoor Air Inlet Temperature:......................20.0°C DB
Outdoor Air Inlet Temperature: ....7.0°C DB
......................6.0°C WB
Piping Length:7.5 metre
Piping Lift:0 metre

2. The sound pressure level is based on following conditions. 1.5 metre Beneath the unit.
The data in the table above was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

4-WAY CASSETTE
(DC) [RCI-FSKDNQ]

Model

Indoor Unit Power Supply			RCI-1.0FSKDNQ	RCI-1.5FSKDNQ	RCI-2.0FSKDNQ	RCI-2.5FSKDNQ	RCI-3.0FSKDNQ	RCI-4.0FSKDNQ	RCI-5.0FSKDNQ	RCI-6.0FSKDNQ
			AC 1Φ, [220-240V/50Hz] [220V/60Hz]							
Nominal Capacity	Cooling	kW	2.8	4.0	5.6	7.1	8.0	11.2	14.0	16.0
	Heating	kW	3.2	4.8	6.3	8.5	9.0	12.5	16.0	18.0
Sound Pressure Level	(Hi2/Hi/Me/Lo)	dB(A)	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	48/46/41/37
Outer Dimension	(H×W×D)	mm	238×840×840	238×840×840	238×840×840	238×840×840	288×840×840	288×840×840	288×840×840	288×840×840
Net Weight		kg	20	21	21	22	26	26	26	26
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi2/Hi/Me/Lo)	m³/min	15/13/11/9	21/17/14/11	22/17/14/11	27/23/18/14	27/23/18/14	37/31/24/20	37/33/26/21	37/35/28/22
Connections			Flare-Nut Connection (with flare Nuts)							
Refrigerant Piping Diameter	Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas Line	mm	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88
Condensate Drain			VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25
Approximate Packing Volume		m³	0.21	0.21	0.21	0.21	0.25	0.25	0.25	0.25

Decoration Panel		- (Standard)
Receiver Kit	Basic	HR4A10NEWQ
	Advanced	PC-ALH3
Motion Sensor		PS-MSK2
Condensate Drain Pump Kit		- (Standard)
Duct Adapter		PD-75A

Notes:
1. The cooling and heating capacities above show the maximum capacities when the outdoor and indoor temperature are under the following conditions.

Cooling Operation Conditions
Indoor Air Inlet Temperature:......................27.0°C DB (80.0°F DB)
......................19.0°C WB (66.2°F WB)
Outdoor Air Inlet Temperature: ....35.0°C DB (95.0°F DB)
Piping Length: 7.5 metre
Piping Lift: 0 metre

Heating Operation Conditions
Indoor Air Inlet Temperature:......................20.0°C DB (68.0°F DB)
Outdoor Air Inlet Temperature: ....7.0°C DB (45.0°F DB)
......................6.0°C WB (43.0°F WB)
Piping Length: 7.5 metre
Piping Lift: 0 metre

2. The sound pressure level is based on following conditions. 1.5 metre Beneath the unit.
The data in the table above was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

3. Decoration panel is included.

Specifications & accessories

NEW
SILENT-ICONIC™ 4-WAY CASSETTE DESIGN PANEL
FOR 4-WAY CASSETTE [RCI-FSRP]
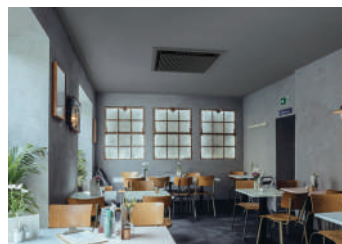
Model	P-GP160NAP	P-GP160NAPU	P-GP160KAP
Standard/option	Design Panel Standard	Design Panel with an Elevation Grille	Design Panel Standard
Color	Natural White	Natural White	Black
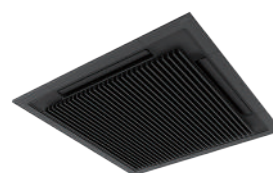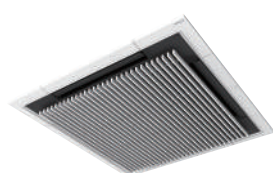
NEW
4-WAY CASSETTE COMPACT
(DC) [RCIM-FSRE]

Model			RCIM-0.6FSRE	RCIM-0.8FSRE	RCIM-1.0FSRE	RCIM-1.5FSRE	RCIM-2.0FSRE	RCIM-2.5FSRE
Indoor Unit Power Supply			AC 1Φ, [230V/50Hz] [220-240V/50Hz] [220V/60Hz]					
Nominal Capacity	Cooling	kW	1.6	2.2	2.8	4.0	5.6	7.1
	Heating	kW	1.9	2.5	3.2	4.8	6.3	8.5
Sound Pressure Level	(Hi2/Hi/Me/Lo)	dB(A)	34/30/28/24.5	36/33/29/24.5	38/34/30/24.5	41/37/33/27.5	45/39/35/31	47/43/39/35
Outer Dimension	(H×W×D)	mm	285×570×570	285×570×570	285×570×570	285×570×570	285×570×570	285×570×570
Net Weight		kg	16	16	16	16	17	17
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi2/Hi/Me/Lo)	m³/min	10/8.5/7.5/6	11/9.5/8/6	12/10/8.5/6	13/11/9.5/7	15/12/10/8	16/14/12/10
Connections			Flare-Nut Connection (with Flare Nuts)					
Refrigerant Piping Diameter	Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.52
	Gas Line	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88
Condensate Drain			VP25	VP25	VP25	VP25	VP25	VP25
Approximate Packing Volume		m³	0.13	0.13	0.13	0.13	0.13	0.13

Decoration panel		P-AP56NAM
Decoration panel with Receiver Kit	Advanced	P-AP56NAMR
Receiver kit	Advanced	PC-ALHC1
Motion Sensor		SOR-NEC
Condensate Drain Pump Kit		- (Standard)
Duct Adapter		PD-75C

Notes:
1. The cooling and heating capacities above show the maximum capacities when the outdoor and indoor temperature are under the following conditions.

Cooling Operation Conditions
Indoor Air Inlet Temperature:......................27.0ºC DB
          19.0ºC WB
Outdoor Air Inlet Temperature: ....35.0ºC DB
Piping Length:7.5 metre
Piping Lift:0 metre

Heating Operation Conditions
Indoor Air Inlet Temperature:......................20.0ºC DB
Outdoor Air Inlet Temperature: ....7.0ºC DB
          6.0ºC WB
Piping Length:7.5 metre
Piping Lift:0 metre

2. The sound pressure level is based on following conditions. 1.5 metre Beneath the unit.
   The data in the table above was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

3. RCIM-0.6FSRE cannot be connected to HNRQ series.
   Please refer to the technical catalogue for the details.

NEW
2-WAY CASSETTE
(DC) [RCD-FSR]

Model

| Model			RCD-0.8FSR	RCD-1.0FSR	RCD-1.5FSR	RCD-2.0FSR	RCD-2.5FSR	RCD-3.0FSR	RCD-4.0FSR	RCD-5.0FSR	RCD-6.0FSR
Indoor Unit Power Supply			AC 1Φ, [220-240V/50Hz] [220V/60Hz]								
Nominal Capacity	Cooling	kW	2.2	2.8	4.0	5.6	7.1	8.0	11.2	14.0	16.0
	Heating	kW	2.5	3.2	4.8	6.3	8.5	9.0	12.5	16.0	18.0
Sound Pressure Level	(Hi2/Hi/Me/Lo)	dB(A)	30/29/28/27	31/29/28/27	37/34/31/30	39/36/33/30	42/39/36/33	45/42/38/33	43/40/37/34	47/44/41/35	48/45/42/39
Outer Dimension	(H×W×D)	mm	298×860×630	298×860×630	298×860×630	298×860×630	298×860×630	298×860×630	298×1,420×630	298×1,420×630	298×1,420×630
Net Weight		kg	23	23	25	25	25	25	39	39	39
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi2/Hi/Me/Lo)	m³/min	10/9/7.5/6.5	11/9.5/8.5/7	15/13/11.5/10	16.5/14.5/12.5/10.5	18.5/16.5/14.5/12.5	21/18.5/16/12.5	30/26.5/23/20	35/31/27/21	37/32.5/28.5/24
Connections			Flare-Nut Connection (with Flare Nuts)								
Refrigerant Piping Diameter	Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas Line	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88
Condensate Drain			VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25
Approximate Packing Volume		m³	0.24	0.24	0.24	0.24	0.24	0.24	0.36	0.36	0.36

Decoration panel	0.8-3.0 (HP)	P-AP90DNA
	4.0-6.0 (HP)	P-AP160DNA
Receiver kit	Advanced	PC-ALHD1
Motion Sensor		SOR-NED
Condensate Drain Pump Kit		- (Standard)

Duct Adapter		PD-150D
Antibacterial Long-life Filter	0.8-3.0 (HP)	F-90MD-K1
	4.0-6.0 (HP)	F-160MD-K1
Filter Box	0.8-3.0 (HP)	B-90HD
	4.0-6.0 (HP)	B-160HD

Notes:
1. The cooling and heating capacities above show the maximum capacities when the outdoor and indoor temperature are under the following conditions.

Cooling Operation Conditions
Indoor Air Inlet Temperature:......................27.0°C DB
19.0°C WB
Outdoor Air Inlet Temperature: ....35.0°C DB
Piping Length:7.5 metre
Piping Lift:0 metre

Heating Operation Conditions
Indoor Air Inlet Temperature:......................20.0°C DB
Outdoor Air Inlet Temperature: ....7.0°C DB
6.0°C WB
Piping Length:7.5 metre
Piping Lift:0 metre

2. The sound pressure level is based on following conditions. 1.5 metre Beneath the unit.
The data in the table above was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

NEW
1-WAY CASSETTE
(DC) [RCS-FSR]

Model

Model			RCS-0.8FSR	RCS-1.0FSR	RCS-1.5FSR	RCS-2.0FSR	RCS-2.5FSR	RCS-3.0FSR
Indoor Unit Power Supply			AC 1Φ, [220-240V/50Hz] [230V/50Hz] [220V/60Hz]					
Nominal Capacity	Cooling	kW	2.2	2.8	4.0	5.6	7.1	8.0
	Heating	kW	2.5	3.2	4.8	6.3	8.5	9.0
Sound Pressure Level	(Hi2/Hi/Me/Lo)	dB(A)	34/32/29/27	36/34/31/28	40/37/33/31	42/38/35/31	43/39/36/32	43/40/37/33
Outer Dimension	(H×W×D)	mm	235×900×710	235×900×710	235×900×710	235×900×710	235×1,210×710	235×1,210×710
Net Weight		kg	25	25	26	26	33	33
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi2/Hi/Me/Lo)	m³/min	8.5/7.5/6.5/6	9.5/8.5/7.5/6.5	13/11.5/10/8.5	14.5/13/11/9.5	18.5/16.5/14.5/12.5	20/17.5/15.5/13
Connections			Flare-Nut Connection (with Flare Nuts)					
Refrigerant Piping Diameter	Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52
	Gas Line	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88
Condensate Drain			VP25	VP25	VP25	VP25	VP25	VP25
Approximate Packing Volume		m³	0.25	0.25	0.25	0.25	0.32	0.32

Decoration panel	0.8-1.0 (HP)	P-AP36CNA
	1.5-2.0 (HP)	P-AP56CNA
	2.5-3.0 (HP)	P-AP80CNA
Receiver kit	Advanced	PC-ALHS1
Motion Sensor		SOR-NES
Condensate Drain Pump Kit		- (Standard)

Duct Adapter		PD-100
Drille for Front Discharge	0.8-2.0 (HP)	DG-56SW1
	2.5-3.0 (HP)	DG-80SW1
Air Outlet Shutter Plate	0.8-2.0 (HP)	PIS-56LS
	2.5-3.0 (HP)	PIS-80LS

Notes:
1. The cooling and heating capacities above show the maximum capacities when the outdoor and indoor temperature are under the following conditions.

Cooling Operation Conditions
Indoor Air Inlet Temperature:......................27.0°C DB
19.0°C WB
Outdoor Air Inlet Temperature: ....35.0°C DB
Piping Length:7.5 metre
Piping Lift:0 metre

Heating Operation Conditions
Indoor Air Inlet Temperature:......................20.0°C DB
Outdoor Air Inlet Temperature: ....7.0°C DB
6.0°C WB
Piping Length:7.5 metre
Piping Lift:0 metre

2. The sound pressure level is based on following conditions. 1.5 metre Beneath the unit.
The data in the table above was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

VARIABLE REFRIGERANT FLOW SYSTEM

SideSmart™

Specifications & accessories

WALL MOUNTED
(DC) [RPK-FSRM, RPK-FSRHM]

Type
Expansion Valve built-in type

Model

			RPK-0.6FSRM	RPK-0.8FSRM	RPK-1.0FSRM	RPK-1.5FSRM	RPK-2.0FSRM	RPK-2.5FSRM	RPK-3.0FSRM	RPK-4.0FSRM
Indoor Unit Power Supply			AC 1Φ, [220-240V/50Hz] [220V/60Hz]							
Nominal Capacity	Cooling	kW	1.7	2.2	2.8	4.0	5.6	7.1	8.0	11.2
	Heating	kW	1.9	2.5	3.2	4.8	6.3	8.5	9.0	12.5
Sound Pressure Level	(Hi2/Hi/Me/Lo)	dB(A)	35/32/31/29	39/35/32/30	39/35/32/30	46/40/36/33	40/37/34/31	45/42/38/35	47/44/40/35	51/48/44/39
Color			White							
Outer Dimension	(H×W×D)	mm	300×790×230	300×790×230	300×790×230	300×900×230	300×1,100×260	300×1,100×260	300×1,100×260	300×1,100×260
Net Weight		kg	10	10	10	11	14.5	15	15	15
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi2/Hi/Me/Lo)	m³/min	8/7.5/7/6	10/8/7/6.5	10/8/7/6.5	14/11/9/7.5	14.5/13/11/9.5	18.5/16.5/14/12	20/17.5/15.5/12.5	23/20/17.5/14.5
Motor			38	38	38	38	38	38	38	38
Connections			Flare-Nut Connection (with Flare Nuts)							
Refrigerant Piping Diameter	Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52
	Gas Line	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88
Condensate Drain			VP16	VP16	VP16	VP16	VP16	VP16	VP16	VP16
Approximate Packing Volume		m³	0.09	0.09	0.09	0.11	0.14	0.14	0.14	0.14
Accessory included			Wall Mounting Bracket							

Type
External Expansion Valve type

Model

			RPK-0.6FSRHM	RPK-0.8FSRHM	RPK-1.0FSRHM	RPK-1.5FSRHM
Indoor Unit Power Supply			AC 1Φ, [220-240V/50Hz] [220V/60Hz]			
Nominal Capacity	Cooling	kW	1.7	2.2	2.8	4.0
	Heating	kW	1.9	2.5	3.2	4.8
Sound Pressure Level	(Hi2/Hi/Me/Lo)	dB(A)	35/32/31/29	39/35/32/30	39/35/32/30	46/40/36/33
Color			White			
Outer Dimension	(H×W×D)	mm	300×790×230	300×790×230	300×790×230	300×900×230
Net Weight		kg	10	10	10	11
Refrigerant			R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi2/Hi/Me/Lo)	m³/min	8/7.5/7/6	10/8/7/6.5	10/8/7/6.5	14/11/9/7.5
Motor			38	38	38	38
Connections			Flare-Nut Connection (with Flare Nuts)			
Refrigerant Piping Diameter	Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35
	Gas Line	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7
Condensate Drain			VP16	VP16	VP16	VP16
Approximate Packing Volume		m³	0.09	0.09	0.09	0.11
Accessory included			Wall Mounting Bracket			

Receiver kit	Advanced	PC-ALHZ1
Strainer kit	FSRM: 0.6-2.0 (HP)	MSF-NP63A1
	FSRM: 2.5-4.0 (HP)	MSF-NP112A1
	FSRHM: 0.6-1.5 (HP)	MSF-NP36AH1
External Expansion Valve Kit	FSRHM	EV-1.5N1

Notes:
1. The cooling and heating capacities above show the maximum capacities when the outdoor and indoor temperature are under the following conditions.

Cooling Operation Conditions
Indoor Air Inlet Temperature:......................27.0°C DB
                                                                  19.0°C WB
Outdoor Air Inlet Temperature: ....35.0°C DB
Piping Length: 7.5 metre
Piping Lift: 0 metre

Heating Operation Conditions
Indoor Air Inlet Temperature:......................20.0°C DB
Outdoor Air Inlet Temperature: ....7.0°C DB
                                                                  6.0°C WB
Piping Length: 7.5 metre
Piping Lift: 0 metre

2. The sound pressure level is based on following conditions.
   1.0 metre Beneath the Unit.
   1.0 metre from Discharge Grille.
   The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.
   When bottom air inlet is adopted, sound pressure will increase according to factors such as installation mode and the room structure.

Strainer kit
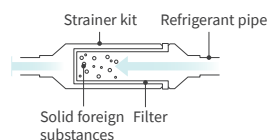
A strainer kit ensures that solid foreign substances, like small particles of metal, are caught before they enter the electric expansion valves of a wall-mounted indoor unit.
Without the strainer kit's filter, these particles may prevent the valves from being fully sealed, creating a risk of explosive condensation when the unit becomes active.

WALL MOUNTED
(AC) [RPK-FSNQS]

Discontinued in 2021.
Please consult your distributor for more detail.

Model			RPK-0.8FSNQS	RPK-1.0FSNQS	RPK-1.3FSNQS	RPK-1.5FSNQS	RPK-1.8FSNQS	RPK-2.0FSNQS	RPK-2.3FSNQS
Indoor Unit Power Supply			AC 1Φ, [220-240V/50Hz]						
Nominal Capacity	Cooling	kW	2.2	2.8	3.6	4.0	5.0	5.6	6.3
	Heating	kW	2.5	3.3	4.0	4.5	5.6	6.3	7.1
Sound Pressure Level	(Hi/Me/Lo)	dB(A)	38/36/32	38/36/32	40/36/34	41/38/36	42/39/35	42/39/35	45/42/39
Color			White						
Outer Dimension	(H×W×D)	mm	280×780×220	280×780×220	280×780×220	280×780×220	290×1,050×220	290×1,050×220	290×1,050×220
Net Weight		kg	10	10	10	10	12.5	12.5	12.5
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi/Me/Lo)	m³/min	8.5/7.5/6.5	8.5/7.5/6.5	9.2/7.5/6.7	10/8.5/7.5	12/10.3/8.7	12/10.3/8.7	13.7/12/10.3
Connections			Flare-Nut Connection (with Flare Nuts)						
Refrigerant Piping Diameter	Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35
	Gas Line	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88
Condensate Drain			VP16	VP16	VP16	VP16	VP16	VP16	VP16
Approximate Packing Volume		m³	0.12	0.12	0.12	0.12	0.15	0.15	0.15

Receiver kit	Basic	PC-RLH11
	Advanced	PC-ALHZ1
Strainer kit		MSF-NP63A1

Notes:
1. The cooling and heating capacities above show the maximum capacities when the outdoor and indoor temperature are under the following conditions.

Cooling Operation Conditions
Indoor Air Inlet Temperature:......................27.0°C DB (80.0°F DB)
19.0°C WB (66.2°F WB)
Outdoor Air Inlet Temperature: ....35.0°C DB (95.0°F DB)
Piping Length:7.5 metre
Piping Lift:0 metre

Heating Operation Conditions
Indoor Air Inlet Temperature:....................20.0°C DB (68.0°F DB)
Outdoor Air Inlet Temperature: ....7.0°C DB (45.0°F DB)
6.0°C WB (43.0°F WB)
Piping Length:7.5 metre
Piping Lift:0 metre

2. The sound pressure level is based on following conditions.
1.0 metre Beneath the unit.
1.0 metre from Discharge grille.
The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.
When bottom air inlet is adopted, sound pressure will increase according to factors such as installation mode and the room structure.

FLOOR/CEILING CONVERTIBLE
(AC) [RPFC-FSNQ]

Model			RPFC-1.8FSNQ	RPFC-2.0FSNQ	RPFC-2.3FSNQ	RPFC-2.5FSNQ	RPFC-3.0FSNQ	RPFC-3.3FSNQ	RPFC-4.0FSNQ	RPFC-5.0FSNQ
Indoor Unit Power Supply			AC 1Φ, [220-240V/50Hz] [220V/60Hz]							
Nominal Capacity	Cooling	kW	5.0	5.6	6.3	7.1	8.4	9.0	11.2	14.2
	Heating	kW	5.6	6.5	7.5	8.5	9.6	10.0	13.0	16.3
Sound Pressure Level	Ceiling Mode	dB(A)	39/35/30	39/35/30	45/41/37	45/41/37	43/39/34	45/40/36	51/46/40	50/46/42
	Floor Mode	dB(A)	43/38/35	43/38/35	48/44/40	48/44/40	46/41/37	48/43/39	54/49/43	55/50/46
Outer Dimension	(H×W×D)	mm	230×990×680	230×990×680	230×990×680	230×990×680	230×1,285×680	230×1,285×680	230×1,285×680	230×1,580×680
Net Weight		kg	31	31	32	32	39	40	41	47
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi/Me/Lo)	m³/h	780/660/540	780/660/540	966/840/678	966/840/678	1,092/912/732	1,164/978/798	1,488/1,230/978	1,980/1,680/1,380
Connections			Flare-Nut Connection (with Flare Nuts)							
Refrigerant Piping Diameter	Liquid Line	mm	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas Line	mm	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88
Condensate Drain			VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25
Approximate Packing Volume		m³	0.31	0.31	0.31	0.31	0.40	0.40	0.40	0.48

Receiver kit	Basic	PC-RLH11
	Advanced	PC-ALHZ1

Notes:
1. The cooling and heating capacities above show the maximum capacities when the outdoor and indoor temperature are under the following conditions.

Cooling Operation Conditions
Indoor Air Inlet Temperature:......................27.0°C DB
19.0°C WB
Outdoor Air Inlet Temperature: ....35.0°C DB
Piping Length: 7.5 metre
Piping Lift: 0 metre

Heating Operation Conditions
Indoor Air Inlet Temperature:....................20.0°C DB
Outdoor Air Inlet Temperature: ....7.0°C DB
6.0°C WB
Piping Length: 7.5 metre
Piping Lift: 0 metre

2. The sound pressure level is based on following conditions.
1.0 metre Beneath the unit.
1.0 metre from Discharge grille.
The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.
When bottom air inlet is adopted, sound pressure will increase according to factors such as installation mode and the room structure.

Specifications & accessories

NEW
CEILING SUSPENDED
(DC) [RPC-FSR]

Model			RPC-1.5FSR	RPC-2.0FSR	RPC-2.5FSR	RPC-3.0FSR	RPC-4.0FSR	RPC-5.0FSR	RPC-6.0FSR
Indoor Unit Power Supply			AC 1Φ, [220-240V/50Hz] [220V/60Hz]						
Nominal Capacity	Cooling	kW	4.0	5.6	7.1	8.0	11.2	14.0	16.0
	Heating	kW	4.8	6.3	8.5	9.0	12.5	16.0	18.0
Sound Pressure Level	(Hi2/Hi/Me/Lo)	dB(A)	37/35/31/28	38/35/31/28	38/35/31/28	40/37/33/29	44/42/37/32	48/45/41/35	49/47/42/36
Color			Neutral White						
Outer Dimension	(H×W×D)	mm	235×960×690	235×960×690	235×1,270×690	235×1,270×690	235×1,580×690	235×1,580×690	235×1,580×690
Net Weight		kg	26	27	35	35	41	41	41
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi2/Hi/Me/Lo)	m³/min	15/13/11/9	15/13/11/9	19/16.5/14/11.5	21/18.5/15.5/12.5	30/26.5/22/17	35/31/25.5/20	37/32.5/27/21
Connections			Flare-Nut Connection (with Flare Nuts)						
Refrigerant Piping Diameter	Liquid Line	mm	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas Line	mm	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88
Condensate Drain			VP20	VP20	VP20	VP20	VP20	VP20	VP20
Approximate Packing Volume		m³	0.23	0.23	0.31	0.31	0.38	0.38	0.38

Receiver kit	Advanced	PC-ALHP1
Motion Sensor		SOR-NEP
Condensate Drain Pump Kit	1.5 (HP)	DUPC-63K1
	2.0 (HP)	DUPC-71K1
	2.5-6.0 (HP)	DUPC-160K1

Notes:
1. The cooling and heating capacities above show the maximum capacities when the outdoor and indoor temperature are under the following conditions.

Cooling Operation Conditions
Indoor Air Inlet Temperature:......................27.0°C DB
19.0°C WB
Outdoor Air Inlet Temperature: ....35.0°C DB
Piping Length: 7.5 metre
Piping Lift: 0 metre

Heating Operation Conditions
Indoor Air Inlet Temperature:......................20.0°C DB
Outdoor Air Inlet Temperature: ....7.0°C DB
6.0°C WB
Piping Length: 7.5 metre
Piping Lift: 0 metre

2. The sound pressure level is based on following conditions.
1.0 metre Beneath the unit.
1.0 metre from Discharge grille.
The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.
When bottom air inlet is adopted, sound pressure will increase according to factors such as installation mode and the room structure.

FLOOR EXPOSED
(AC) [RPF-FSN2E]

Model			RPF-1.0FSN2E	RPF-1.5FSN2E	RPF-2.0FSN2E	RPF-2.5FSN2E
Indoor Unit Power Supply		Current	AC 1 Phase			
			[220-240V/50Hz] [220V/60Hz]			
Nominal Capacity	Cooling	kW	2.8	4.0	5.6	7.1
	Heating	kW	3.2	4.8	6.3	8.5
Sound Pressure Level	(Hi/Me/Lo)	dB(A)	35/32/29	38/35/31	39/36/32	42/38/34
Color			Spring White			
Outer Dimension	(H×W×D)	mm	630×1,045×220	630×1,170×220	630×1,420×220	630×1,420×220
Net Weight		kg	25	28	33	34
Refrigerant			R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi/Me/Lo)	m³/min	8.5/7/6	12/10/09	16/14/11	16/14/11
Motor		W	20	28	45	45
Connections			Flare-Nut Connection (with Flare Nuts)			
Refrigerant Piping	Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ9.52
	Gas Line	mm	Φ12.70	Φ12.70	Φ15.88	Φ15.88
Condensate Drain			Φ18.5 OD	Φ18.5 OD	Φ18.5 OD	Φ18.5 OD
Packaging Volume		m³	0.22	0.24	0.29	0.29

Receiver kit	PC-ALHZ1	Advanced

Notes:
1. The cooling and heating capacities above show the maximum capacities when the outdoor and indoor temperature are under the following conditions.

Cooling Operation Conditions
Indoor Air Inlet Temperature:......................27.0°C DB
19.0°C WB
Outdoor Air Inlet Temperature: ....35.0°C DB
Piping Length: 7.5 metre
Piping Lift: 0 metre

Heating Operation Conditions
Indoor Air Inlet Temperature:......................20.0°C DB
Outdoor Air Inlet Temperature: ....7.0°C DB
6.0°C WB
Piping Length: 7.5 metre
Piping Lift: 0 metre

2. The sound pressure level is based on following conditions.
1.0 metre from the unit.
1.0 metre from floor level.
Voltage of the power source for the indoor fan motor is 220V.
The above data was measured in an anechoic chamber.

FLOOR CONCEALED

(AC) [RPFI-FSN2E]

Model			RPFI-1.0FSN2E	RPFI-1.5FSN2E	RPFI-2.0FSN2E	RPFI-2.5FSN2E
Indoor Unit Power Supply	Current		AC 1 Phase [220-240V/50Hz] [220V/60Hz]			
Nominal Capacity	Cooling	kW	2.8	4.0	5.6	7.1
	Heating	kW	3.2	4.8	6.3	8.5
Sound Pressure Level	(Hi/Me/Lo)	dB(A)	35/32/29	38/35/31	39/36/32	42/38/34
Outer Dimension	(H×W×D)	mm	620×848×220	620×973×220	620×1,223×220	620×1,223×220
Net Weight		kg	19	23	27	28
Refrigerant			R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi/Me/Lo)	m³/min	8.5/7/6	12/10/09	16/14/11	16/14/11
Motor		W	20	28	45	45
Connections			Flare-Nut Connection (with Flare Nuts)			
Refrigerant Piping	Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ9.52
	Gas Line	mm	Φ12.70	Φ12.70	Φ15.88	Φ15.88
Condensate Drain			VP25	VP25	VP25	VP25
Packaging Volume		m³	0.22	0.23	0.25	0.25

Receiver kit	Advanced	PC-ALHZ1

Notes:
1. The cooling and heating capacities above show the maximum capacities when the outdoor and indoor temperature are under the following conditions.

Cooling Operation Conditions
Indoor Air Inlet Temperature:......................27.0°C DB
19.0°C WB
Outdoor Air Inlet Temperature: ....35.0°C DB
Piping Length: 7.5 metre
Piping Lift: 0 metre

Heating Operation Conditions
Indoor Air Inlet Temperature:......................20.0°C DB
Outdoor Air Inlet Temperature: ....7.0°C DB
6.0°C WB
Piping Length: 7.5 metre
Piping Lift: 0 metre

2. The sound pressure level is based on following conditions.
1.0 metre from the unit.
1.0 metre from floor level.
Voltage of the power source for the indoor fan motor is 220V.
The above data was measured in an anechoic chamber.

FLOOR CONCEALED

(AC) [RPFI-FSNQ]

Model			RPFI-1.0FSNQ	RPFI-1.5FSNQ	RPFI-2.0FSNQ	RPFI-2.5FSNQ
Indoor Unit Power Supply			AC 1Φ, [220-240V/50Hz]			
Nominal Capacity	Cooling	kW	2.8	4.3	5.6	7.1
	Heating	kW	3.3	4.9	6.5	8.5
Sound Pressure Level	(Hi/Me/Lo)	dB(A)	37/34/31	40/38/35	42/38/36	45/43/40
Outer Dimension	(H×W×D)	mm	620×900×202	620×900×202	620×1,170×202	620×1,170×202
Net Weight		kg	25	26	34	34
Refrigerant			R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi/Me/Lo)	m³/min	8.5/7/6	12/8/7	16/12.5/10.5	16/14/11
Connections			Flare-Nut Connection (with Flare Nuts)			
Refrigerant Piping	Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ9.52
	Gas Line	mm	Φ12.70	Φ12.70	Φ15.88	Φ15.88
Condensate Drain			VP25	VP25	VP25	VP25
Packaging Volume		m³	0.19	0.19	0.23	0.23

Receiver kit	Basic	PC-RLH11
	Advanced	PC-ALHZ1

Notes:
1. The cooling and heating capacities above show the maximum capacities when the outdoor and indoor temperature are under the following conditions.

Cooling Operation Conditions
Indoor Air Inlet Temperature:......................27.0°C DB
19.0°C WB
Outdoor Air Inlet Temperature: ....35.0°C DB
Piping Length: 7.5 metre
Piping Lift: 0 metre

Heating Operation Conditions
Indoor Air Inlet Temperature:......................20.0°C DB
Outdoor Air Inlet Temperature: ....7.0°C DB
6.0°C WB
Piping Length: 7.5 metre
Piping Lift: 0 metre

2. The sound pressure level is based on following conditions.
1.0 metre from the unit.
1.0 metre from floor level.
Voltage of the power source for the indoor fan motor is 220V.
The above data was measured in an anechoic chamber.

VARIABLE REFRIGERANT FLOW SYSTEM

77

SlideSmart™

Ventilation

03

Improve indoor air quality!

Today, the average person spends more than 75% of their day indoors. Without proper ventilation, CO_2 levels rise, pollutants circulate and potentially harmful bacterias build-up, impacting on the wellbeing, comfort and productivity of occupants. Make these spaces as healthy and comfortable as possible by connecting our ventilation solutions into your Hitachi VRF systems.

Our ventilation line-up

Our line-up fulfils the ventilation requirements of the desired space by drawing in clean air from the outside and replenishing indoor spaces.
It features solutions that suit every type of building; you can use the ventilation technology as it is or it can be incorporated into a Hitachi indoor unit via the fresh-air port.
Thanks to our ventilation options, you can optimize the design of your system to meet your needs.

ALL FRESH AIR UNIT

- Creates a comfortable and healthy indoor environment, thanks to the fresh air and heat/cool functions.
- Various controllers can be selected and interfaced with the H-LINK system.
- Longer ducts can be connected on-site, thanks to the higher ESP.

Page 82

TOTAL HEAT EXCHANGER

- Creates a healthy indoor environment thanks to the fresh air and ventilation functions.
- Every unit is equipped with a remote controller for the total heat exchanger as a standard part.

Page 83

From 150 to 6,000m^3/h

Fan Air Flow Rate (m^3/h)	150	200	210	230	300	400	500	550	650	700	800	1,000	1,080	1,250	1,500	1,680	2,000	2,100	2,500	3,000	4,000	5,000	6,000
All Fresh Air Unit													●			●		●		●	●	●	●
Total Heat Exchanger	●	●	●	●	●	●	●	●	●	●	●	●		●	●		●		●	●	●		

EXTRA AIR-RENEWAL SOLUTION OFFERINGS

We offer two additional options to meet both occupants' needs and your building's requirements.

DX-KIT

- Offers great flexibility by enabling you to integrate Hitachi VRF into your building's existing air handling units (AHU).
- Wide capacity range (available up to 96HP AHU).
- Wide configuration options with AHU/Indoor units.

FRESH-AIR INTAKE PORT

- Optional duct adapter which enables fresh air into the unit so that it can be blown out with conditioned air.
- Connects with the indoor units: 4-way cassette type, 4-way compact cassette type, 2-way cassette type, 1-way cassette type.

VARIABLE REFRIGERANT FLOW SYSTEM

81

SideSmart™

Ventilation solutions

ALL FRESH AIR UNIT

Model

Model			RPI-5.0KFNQ		RPI-8.0KFNQ		RPI-10.0KFNQ		RPI-12.0KFNQ	
Power Supply			AC 1Φ 220-240V/ 50Hz	AC 1Φ 220V/ 60Hz	AC 1Φ 220-240V/ 50Hz	AC 1Φ 220V/ 60Hz	AC 1Φ 220-240V/ 50Hz	AC 1Φ 220V/ 60Hz	AC 3Φ 380-415V/ 50Hz	AC 3Φ 380V/ 60Hz
Connectable Outdoor Unit			Slim Modular VRF SideSmart™ (Heat Pump Type)						RAS-120HNCEL(/R)W	
Cooling	Capacity	kW	14.0	14.0	22.4	22.4	28.0	28.0	33.5	33.5
	Power	kW	0.30	0.35	0.48	0.55	0.50	0.58	0.68	0.78
	Nominal Current	A	1.4	1.61	2.2	2.53	2.3	2.65	1.43	1.64
Heating	Capacity	kW	13.7	13.7	21.9	21.9	24.5	24.5	26.8	26.8
	Power	kW	0.30	0.35	0.48	0.55	0.50	0.58	0.68	0.78
	Nominal Current	A	1.4	1.61	2.2	2.53	2.3	2.65	1.43	1.64
Sound Pressure Level (overall a scale)		dB(A)	42	42	44	44	47	47	56	56
Dimensions H×W×D		mm	370×1320×800		486×1270×1069		486×1270×1069		486×1270×1069	
Net Weight		kg	63	63	110	110	110	110	110	110
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Air Flow Rate		m³/min	18	18	28	28	35	35	50	50
External Pressure		Pa	200	200	220	220	220	220	220	220
Piping	Liquid	mm	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ12.7	Φ12.7
	Gas	mm	Φ15.88	Φ15.88	Φ19.05	Φ19.05	Φ22.2	Φ22.2	Φ25.4	Φ25.4
	Condensate Drain		VP25, Outer Diameter: Φ32mm							

Temperature range of fresh air drawn   Cooling: 20.0°C~43.0°C, Heating: -7.0°C~15.0°C

Model

Model			RPI-16.0KFNQL		RPI-16.0KFNQH		RPI-20.0KFNQL		RPI-20.0KFNQH		RPI-20.0KFNQLF		RPI-20.0KFNQHF	
Power Supply			AC 3Φ 380-415V/ 50Hz	AC 3Φ 380V/ 60Hz	AC 3Φ 380-415V/ 50Hz	AC 3Φ 380V/ 60Hz	AC 3Φ 380-415V/ 50Hz	AC 3Φ 380V/ 60Hz	AC 3Φ 380-415V/ 50Hz	AC 3Φ 380V/ 60Hz	AC 3Φ 380-415V/ 50Hz	AC 3Φ 380V/ 60Hz	AC 3Φ 380-415V/ 50Hz	AC 3Φ 380V/ 60Hz
Connectable Outdoor Unit			RAS-160HNCEL(/R)W				RAS-200HNCEL(R)WS, RAS-200HNCEL(R)WP, RAS-200HNCEL(R)WS							
Cooling	Capacity	kW	45.0	45.0	45.0	45.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
	Power	kW	0.72	0.83	1.06	1.22	1.06	1.22	1.39	1.6	1.39	1.60	1.72	1.98
	Nominal Current	A	1.8	2.07	2.2	2.53	2.22	2.55	3.14	3.61	3.0	3.45	3.9	4.45
Heating	Capacity	kW	36.0	36.0	36.0	36.0	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
	Power	kW	0.72	0.83	1.06	1.22	1.06	1.22	1.39	1.6	1.39	1.60	1.72	1.98
	Nominal Current	A	1.8	2.07	2.2	2.53	2.22	2.55	3.14	3.61	3.0	3.45	3.9	4.45
Sound Pressure Level (overall a scale)		dB(A)	58	58	62	62	61	61	65	65	63	63	67	67
Dimensions H×W×D		mm	635×1950×805		635×1950×805		735×1950×805		735×1950×805		735×1950×805		735×1950×805	
Net Weight		kg	196	196	196	196	222	222	222	222	222	222	222	222
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Air Flow Rate		m³/min	67	67	67	67	83	83	83	83	100	100	100	100
External Pressure		Pa	200	300	200	300	200	200	300	300	200	200	300	300
Piping	Liquid	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88
	Gas	mm	Φ25.4	Φ25.4	Φ25.4	Φ25.4	Φ28.6	Φ28.6	Φ28.6	Φ28.6	Φ28.6	Φ28.6	Φ28.6	Φ28.6
	Condensate Drain		RC1 (Internal Screw)											

Temperature range of fresh air drawn   Cooling: 20.0°C~43.0°C, Heating: -7.0°C~15.0°C

Notes:
1. Cooling capacity and heating capacity tested in the following conditions:
   Cooling conditions: 33.0°CDB, 28.0°CWB, pipeline length 7.5 metre, pipe height difference 0 metre.
   Heating conditions: 0°CDB, -2.9°CWB, pipeline length 7.5 metre, pipe height difference 0 metre (heating is the data without defrosting).
2. Noise test conditions are as follows:
   At a distance of 1.5 metre from the unit surface.
   The above parameters are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be counted at the scene.
3. An air filter with dust removal efficiency of 50% or more needs to be installed at the air inlet.
4. When the field duct resistance is small and the fan speed is too high, the unit will appear the phenomena of abnormal shutdown, fault, water spray etc., and the duct pipe should be insulated to prevent generating dew.
5. Air processor can only be used for processing fresh air, indoor air conditioning load processing need to use other air conditioners.
6. Fresh air processing unit should be connected with Slim Modular VRF SideSmart™, Heat Pump Type, outdoor unit.
   When fresh air processing unit and other indoor units air all connected to the same SideSmart™ outdoor unit, Its equivalent cooling capacity is calculated by the following criteria:
   Type_5HP class: 21.0kW; 8HP class: 33.3kW; 10HP class: 42.0kW.
7. Refer to capacity restrains shown on Table below for indoor unit capacity connectable to outdoor unit.

System	All Fresh Air Unit System (Only All Fresh Air Unit)	Mixed System (All Fresh Air Unit and Other Indoor Unit)
Range of Combination Capacity	80 to 100%	i) 80 to 100% and ii) Total Capacity of All Fresh Air: 30%

Mixed system is only available with RPI-5.0/8.0/10.0KFNQ.
RPI-12.0KFNQ or above is only available as one to one All Fresh Air Unit system.

8. When outdoor temperature is below 20.0°C in cooling operation, the system will be automatically converted to ventilation operation.
   When outdoor temperature is higher than 15.0°C in heating operation, it will be automatically converted to ventilation operation. When lower than -7.0°C, the fresh air processing unit will stop running.

TOTAL HEAT EXCHANGER

Model			KPI-20H-A-GQ	KPI-30H-A-GQ	KPI-40H-A-GQ	KPI-50H-A-GQ	KPI-65H-A-GQ	KPI-80H-A-GQ	KPI-100H-A-GQ	KPI-125H-A-GQ
Unit Power Supply			AC 1Φ, [220/50Hz]							
Temp. Efficiency	Summer (Hi/Me/Lo)	%	64/64/70	60/60/65	61/61/66	60/60/62	65/65/69	65/65/69	65/65/69	65/65/69
	Winter (Hi/Me/Lo)	%	80/80/83	77/77/80	79/79/81	75/75/76	75/75/78	74/74/78	72/72/76	70/70/78
Enthalpy Efficiency	Summer (Hi/Me/Lo)	%	69/69/76	63/63/70	64/64/69	63/63/65	57/57/60	60/60/63	58/58/63	53/53/61
	Winter (Hi/Me/Lo)	%	75/75/78	70/70/75	70/70/75	69/69/71	65/65/70	70/70/72	66/66/69	63/63/72
Sound Pressure Level	(Hi/Me/Lo)	dB(A)	32/30/25	36/34/28	39/37/30	40/38/31	40/38/35	40/38/34	43/42/34	42/40/37
Outer Dimension	(H×W×D)	mm	220×962×735	220×962×735	220×1,112×735	220×1,112×735	388×1,119×884	388×1,119×884	388×1,119×884	430×1,250×1,135
Net Weight		kg	38	40	46	52	61	69	69	95
Air Flow Rate	(Hi/Me/Lo)	m³/h	200/200/150	300/300/210	400/400/230	500/500/400	650/650/550	800/800/650	1,000/1,000/700	1,250/1,250/800
External Static Pressure	(Hi/Me/Lo)	Pa	100/70/40	120/90/50	120/90/50	120/90/50	130/100/90	130/100/90	165/120/60	100/50/30
Power Input	(Hi/Me/Lo)	W	120/110/75	165/155/120	210/200/130	330/310/230	2×(188/173/142)	2×(207/188/165)	2×(250/228/205)	2×(308/266/237)
Current	(Hi/Me/Lo)	A	0.6/0.5/0.4	0.8/0.7/0.6	1.0/1.0/0.7	1.6/1.5/1.1	1.72/1.58/1.31	2.04/1.93/1.73	2.35/2.09/1.92	3.03/2.45/2.18
Connection Duct Diameter		mm	Φ144	Φ144	Φ144	Φ194	Φ242	Φ242	Φ242	320×250 +320×250
Approximate Packing Volume		m³	0.37	0.37	0.43	0.49	0.94	1.15	1.15	1.25

Model			KPI-150H-E-GQ	KPI-200H-E-GQ	KPI-250H-E-GQ	KPI-300H-E-GQ	KPF-400H-E-GQ	KPF-500H-E-GQ
Unit Power Supply			AC 3Φ, [380/50Hz]					
Temp. Efficiency	Summer	%	63	63	63	63	63	63
	Winter	%	68	72	75	75	73	73
Enthalpy Efficiency	Summer	%	57	57	55	56	55	53
	Winter	%	68	68	72	72	63	61
Sound Pressure Level		dB(A)	50	51	53	54	57	58
Outer Dimension	(H×W×D)	mm	536×1,500×1,300	536×1,500×1,400	640×1,700×1,500	640×1,750×1,600	1,655×1,400×850	1,730×1,700×850
Net Weight		kg	144	155	180	220	225	260
Air Flow Rate		m³/h	1,500	2,000	2,500	3,000	4,000	5,000
External Static Pressure		Pa	165	160	180	200	220	240
Power Input		W	2×440	2×810	2×925	2×1080	2×1,470	2×1,980
Current		A	2.84	3.08	4.19	5.23	5.57	7.51
Connection Duct Diameter		mm	400×320 +400×320	400×320 +400×320	500×350 +500×350	500×350 +500×350	400×320 +590×320	500×350 +700×320
Approximate Packing Volume		m³	1.82	1.95	2.63	2.93	3.01	3.75

Note:
Please confirm the model name for "wires remote controller" compatible with Total Heat Exchanger to your local distributor.
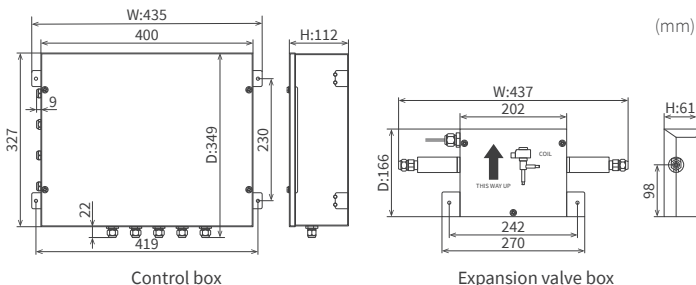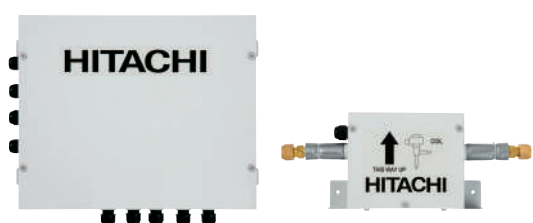
DX-Kit

Integrate Hitachi VRF into your pre-existing Air Handling Units (AHU).

Dimensions

(mm)

Control box

Expansion valve box

Capacity (HP)		2	4	6	8/10	12~20	22~30
Model		**DXF-2.0A1**	**DXF-4.0A1**	**DXF-6.0A1**	**DXF-10.0A1**	**DXF-20.0A1**	**DXF-30.0A1**
Control Box (C Box)	Power Supply	AC1Φ, [220-240V /50Hz] [220V 60Hz]					
	Height mm	112	112	112	112	112	112
	Width mm	435	435	435	435	435	435
	Depth mm	349	349	349	349	349	349
	Weight kg	5.2	5.2	5.2	5.2	5.2	5.2
	Material	Steel Plate + White Grey Coating					
Expansion Valve Box (EXV Box)	Height mm	61	61	61	61	61	61
	Width mm	437	437	437	437	437	437
	Depth mm	166	166	166	166	166	166
	Weight kg	1.7	1.7	1.7	1.7	1.7	1.7
	Quantity	1	1	1	1	1	2
	Material	Steel Plate + White Grey Coating					
	Liquid Pipe Diameter	φ6.35	φ9.52	φ9.52	φ9.52	φ12.7	φ12.7
AHU Suction Temperature Range	Cooling	21.0°C to 32.0°C (DB) / 15.0°C to 23.0°C (WB)					
	Heating	15.0°C to 27.0°C (DB)					
Connection Ratio in different configurations → Total AHU or AHU & IDU Connection Ratio against ODU capacity = X (In case of "Inlet Air Temperature Control")		• 1 ODU to 1 AHU : 50% < X ≤ 100% • 1 ODU to 1 AHU (Separate Heat Exchanger Type) : 50% < X ≤ 100% • 1 ODU to Multiple AHUs : 50% < X ≤ 100% 1 ODU to AHU & IDUs : (1) 50% < X ≤ 100% → Total AHU capacity: No limitation / Each AHU capacity: No limitation (2) 100% < X ≤ 110% → Total AHU capacity: less than 30% of total capacity / Each AHU capacity: between 2-6HP class					
Maximum Piping Length	Total m	• 1,000 (When the number of connected [AHU & IDU] in the system is the same or less than the recommended.) • 300 (When the number of connected [AHU & IDU] in the system is more than the recommended.)					
	Between AHU Heat Exchanger and EXV Box m	5	5	5	5	5	5
Maximum Level Difference	Between ODU and [AHU/IDU] m	• 50 (When ODU is above [AHU & IDU & DX-Kit].) • 40 (When ODU is below [AHU & IDU & DX-Kit].)					
	Between AHU Heat Exchanger and EXV Box m	2	2	2	2	2	2
Maximum Length	Control wiring between AHU Heat Exchanger and EXV Box m	10	10	10	10	10	10
	Thermistor to AHU Heat Exchanger from C Box m	10	10	10	10	10	10
Temperature Control Modes (*1)		• Inlet Air Temperature Control • Outlet Air Temperature Control • Duty Control					

(*1) [Outlet Air Temperature Control] & [Duty Control] are available only in case of connections "1 ODU to 1 AHU" & "1 ODU to 1 AHU(Separate Heat Exchanger Type)".

DX-KIT: GREAT FLEXIBILITY FOR SIMPLIFIED HVAC UPGRADE

① Wide range of capacity:

- (DX-Kit) Single capacity from 2HP to 30HP
- (Custom AHU) up to 96HP available by DX-Kit combination

Our DX-Kit can cover from small to large capacity AHU. It can meet any requirement in any application!

VRF ODU
VRF IDU
4-WAY CASSETTE
Refrigeration piping

MALL
COSMETICS   GROCERY   ELECTRONICS
MENS FASHION   SPORT   BOUTIQUIE

AHU

DX-Kit
Above : Expansion Valve Box (EXV Box).
Below : Control Box (C Box).
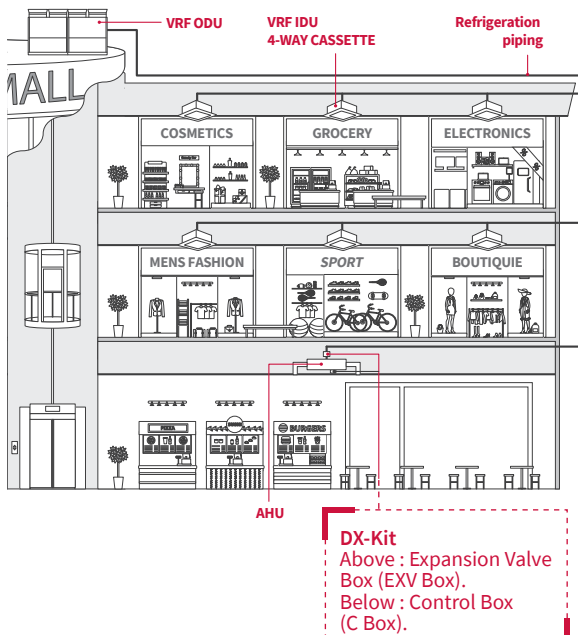
② Flexible installation:

- Both outdoor & indoor installation of DX-Kit available
- Design Flexibility in wiring & piping

DX-Kit facilitates system design!

Both outdoor & indoor installations available!

DX-Kit
H1
L3
L2
L1
EXV Box
C Box

Item		Max (m)
Level difference between AHU Heat Exchanger and EXV Box	H1	2
Piping length between AHU Heat Exchanger and EXV Box	L1	5
Length of control wiring between AHU HeatExchanger and EXV Box	L2	10
Length of the thermistor to AHU Heat Exchanger from C Box	L3	10
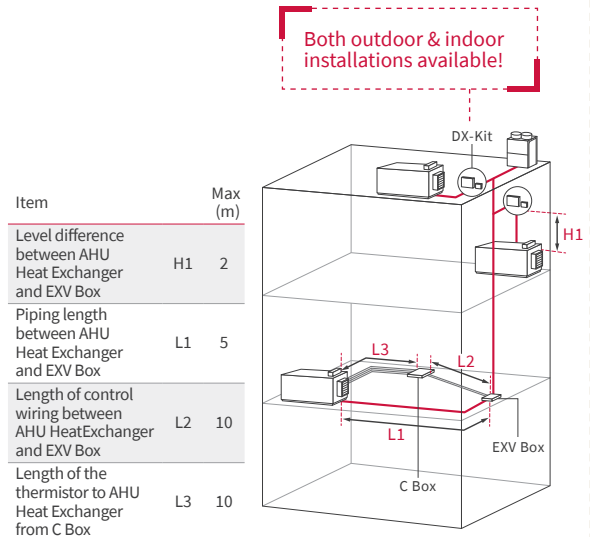
③ 4 examples of configuration:

→ 1 VRF outdoor unit + 1 AHU
→ 1 VRF outdoor unit + 1 AHU (external heat exchanger)
→ 1 VRF Outdoor unit + multiple AHUs
→ 1 VRF Outdoor unit + VRF indoor units + AHUs

[Example]

DX-Kit
Left: Control Box (C Box)
Right: Expansion Valve Box (EXV Box)

Various available AHU capacity connections.

6HP
30HP
60HP

Up to 5 heat exchangers can be connected via DX-Kit!

Flexible combination with VRF indoor units.

52HP   8HP   4HP   4HP   4HP

VARIABLE REFRIGERANT FLOW SYSTEM

85

SideSmart™
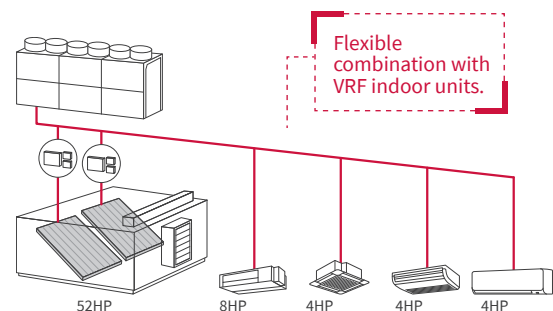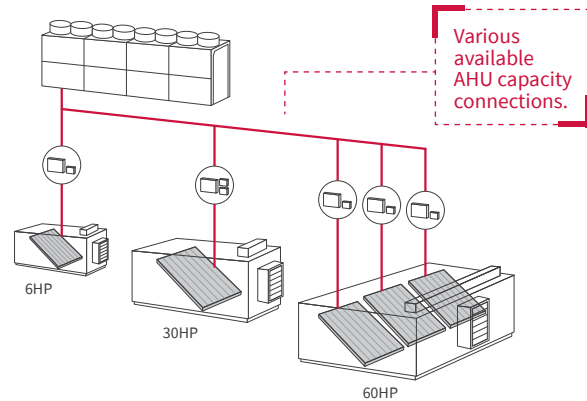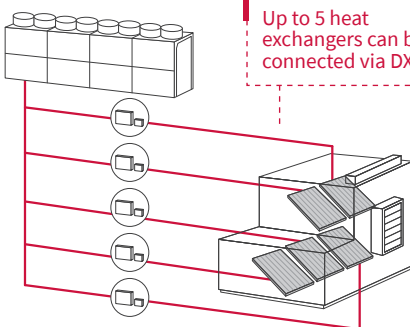
Controllers

04

New generation:
simple and smart!

Everyone deserves comfort, but comfort does not mean the same to everyone.
That's why control is key.
Our controllers offer best-in-class simplicity. Using our praised central stations,
building managers can instantly optimize air conditioning in targeted zones.
For occupants, our new advanced color controller provides intuitive navigation with a
premium design.
With airCloud Pro, our exclusive new-generation solution, users can manage from one
indoor unit to several systems remotely via IoT (web/smartphone).

Centralized controllers

Control each indoor unit, one specific zone or even multiple systems from one place!

airCLOUD PRO* (HC-IoTGW)

· Remote access via smartphone app or web.
· Unlimited number of systems, zones and users.
· Intuitive scheduling function.
· Troubleshooting with access to error history and alerts.
· Filter sign display to quickly overview daily maintenance needs.
· Ideal for all types of applications.

CENTRAL STATION EX (PSC-A128EX1)

· Control capacity: max 2,560 indoor units (+15x Extension Adapter PSC-AD128EX1).
· With energy calculation software (PSC-AS01EXC), determine each tenant's energy usage.
· Easy monitoring with simplified interface.
· Best option for middle-large size buildings.
· Remote access! Operate Central Station EX from your laptop PC or touch-panel PC.

CENTRAL STATION EZ (PSC-A64GT)

· Control capacity: max 64 remote control group of indoor units.
· Compact and optimized 170x250mm body screens fitting in even small walls.
· Easy monitoring with simplified interface.
· Best option for middle size buildings.

CENTRAL STATION MINI (PSC-A32MN)

· Control capacity: max 32 remote control group of indoor units.
· Compact and optimized 120x140mm body screens fitting in even small walls.
· Easy monitoring with simplified interface.
· Best option for small size buildings.

*airCloud Pro available with SideSmart™ from May 2021.

SMALL TO LARGE SYSTEMS & FIXED OR CLOUD-BASED

		air CLOUD PRO	**CENTRAL STATION MINI**	**CENTRAL STATION EZ**	**CENTRAL STATION EX**
		HC-IoTGW	**PSC-A32MN**	**PSC-A64GT**	**PSC-A128EX1**
Capacity comparison	Total Connection capacity	RC group	64 (*6)	32	64	2,560 (*1)
		Group	64 (*6)	32	64	2,048 (*1)
		Block	Unlimited (*7)	2/4/8/16	4	512 (*2)
		Area	Unlimited (*7)	-	-	512 (*2)
		Indoor unit	80 (*6)	160	160	2,560 (*1)
		Outdoor unit	16 (*6)	64	64	1,024 (*1)
	Building scale		Small to Large	Small	Medium	Large
	Operation		Web + Mobile Phone	Touch screen	Touch screen	Touch screen + Web (New!)
Display	Operation panel size options		Adaptive	3	2	7
	Layout		-	-	-	●
	List options		-	-	-	3
Operation unit	All together		●	●	●	●
	By layout		-	-	-	●
	By area		●	-	-	●
	By block		●	●	●	●
	By group		●	-	-	●
	By RC group		-	●	●	-
	By indoor unit		●	-	-	●
Control Function	Main 5 functions (*5)		●	●	●	●
	Individual controller lock		●	●	△ (*3)	●
	Filter sign reset		●	●	●	●
	Outdoor unit capacity control		-	△ (*4)	-	●
	Outdoor unit noise control		-	-	-	●
Monitor Function	Main 5 functions (*5)		●	●	●	●
	Individual controller lock		●	●	●	●
	Alarm status & code		●	●	●	●
	Filter sign		●	●	●	●
	Air inlet temperature of indoor unit		-	●	-	●
	Air inlet temperature of outdoor unit		-	●	-	●
Schedule Function	Weekly		●	●	●	●
	Setting times per day		16	10	10	16
	Special day setting		5	-	-	5
	Holiday setting		-	-	-	●
	Annual/Summer/Winter schedule		Future Version	-	-	●
Other function	Alarm history (records number)		Unlimited	100	100	10,000
	External in/output history		-	-	-	1,000
	Management report visualization(*11)		Energy Estimation (*8) - Future	●	●	●
	Data output by external media		Download from Web - Future	-	-	SD card, USB flash device
IoT Functions	Connectivity		Ethernet + 4G (*9)	-	-	-
	Future Extendability		Firmware OTA (*10) Web + Mobile Update	-	-	-

* airCloud Pro available with SideSmart™ from May 2021.

(*1) One Extension Adapter (PSC-AD128EX1) enable CENTRAL STATION EX to control additional 160 RC groups /128 groups / 160 IDUs / 64 ODUs, and up to 15 adapters can connect to one Central Station EX.
(*2) No restriction on the number of H-LINK.
(*3) Individual Feature Control in Each Remote Controller is not available.
(*4) Applicable only with Schedule function or external signal input. You cannot set it up directly from monitoring panel.
(*5) Main 5 functions meaning: 1) Run/Stop 2) Operation mode 3) Temperature setting 4) Fan speed 5) Louver control.
(*6) Ability to connect unlimited number of "HC-IoTGW" in one project and control all AC units via one single screen on Web or Mobile Phone.
(*7) Unlimited creation of zones, across multiple "HC-IoTGW" units within the same project.
(*8) Visualization of outdoor unit energy consumption.
(*9) 4G available through optional 4G module; 4G module package comes with global SIM and pre-paid global data plan.
(*10) OTA: Over-the-air firmware update, provides always up-to-date firmware and latest functionalities.
(*11) Mini , EZ : Accumulated operation time (min) , Accumulated thermo - ON (min).
    EX : Accumulated operation time (min) , Accumulated thermo - ON time (min) , Average air intake temperature of indoor unit , Average air intake temperature of outdoor unit , Average setting temperature , Average RC sensor temperature.

Centralized controllers

airCLOUD PRO*

[Gateway]

POWER
ERROR
H-LINK
UPLINK
4G-LINK

HITACHI

POWER   LAN   RS485 H-LINK

200mm

138mm
Lateral view: 41mm
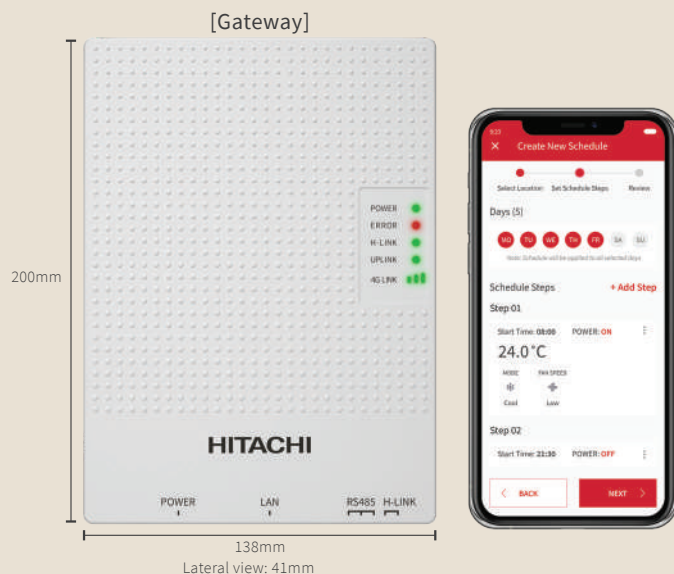
Specifications

Gateway	HC–IoTGW
Net weight (g)	540
Connection capacity	16 outdoor + 80 indoor units
Power supply (V)	(Hz)	100-240, AC	50/60
Max. power consumption (W)	10
Communication port	1 H-LINK, 1 RS485 Port
Internet connection	LAN (Ethernet) or 4G*3
External interface (log storage)	1 micro SD card slot

Functions

IoT connection (cloud-based)	• Access via smartphone app or web • Unlimited number of gateways • Unlimited number of locations • Unlimited number of users
Operation unit	• Per entire location • Per system • Per zone (unlimited zone creation) • Per indoor unit remote control group
Control function	• On/Off • Mode • Set temperature • Fan speed • Louver • RC lock • Filter sign reset

Monitor Function	• On/Off • Mode • Set temperature • Air intake temperature • RC sensor temperature (*3) • Air intake temperature of outdoor unit • Fan Speed • Louver • RC prohibition • Thermo-ON information • Filter sign/Auto cleaning fault • Alarm status/Alarm codes
Schedule function	• Weekly schedule • Easy selection of days and zones • Setting items in schedule is as below; • On/Off • Operation mode • Setting temperature • Louver • Fan speed

* "All Groups Run/Stop" command signal exception function for selected groups
  is available by "Exception of Run/Stop Operation." function.

System configuration.

Ethernet
or 3G / 4G*3

air Cloud Pro

From web
or app

airCloud
gateway

H-LINK

To your VRF
system

Recommended facilities (examples.)

OFFICE

HOSPITAL

SCHOOL/
COLLEGE

RESTAURANT

HOTEL

RETAIL

Is airCloud Pro for me?

All VRF users can enjoy these benefits!
• Save energy
• Save time and unnecessary transportation
• Delegate VRF systems administration
• Create a comfortable climate for guests

Future-proof

With updates and new features added regularly,
airCloud Pro ensures you are always up to date.

• Compatible with new and former
• Hitachi Variable Refrigerant
• Flow systems*1

Control is in your hands.
24/7 control at your fingertips on smartphone, tablet, or PC.

For stand-alone and multi-site applications.

HITACHI
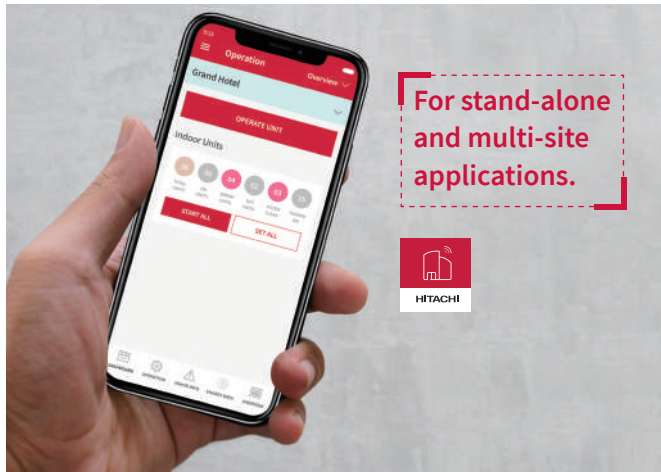
✓ Intuitive simplicity

airCloud Pro is designed to make your job easier. An intuitive app that anyone can use, airCloud Pro makes managing your VRF systems easier than ever before.

✓ Control from anywhere

Enjoy the freedom of remote access from your smartphone, tablet or laptop. airCloud Pro allows you to remotely control your VRF system(s) from a single app, saving you travel time.

A simple yet powerful tool.

Simplify your job

The pilot app makes managing your VRF systems easy.

- Centralized control
  Control your entire VRF system or selected zones in one touch.
- Simplified troubleshooting
  A clear error history, concise error description and follow-up.
- Smartphone alerts[*2]
  In the event of a critical malfunction.
- Flexible user management[*2]
  Add users and custom access restrictions.

Save more energy

Monitor energy consumption and optimize usage.

- Energy consumption data[*2]
  Simple gr aphs visualize power consumption.
- Intuitive scheduling
  Plan operations ahead based on your business hours.
- Individual controller lock
  Prevent inappropriate usage from occupants.

Create better comfort

Adjust temperature, fan speed, and modes with ease, creating total comfort and the ideal climate throughout your building.

An integrated weather forecast[*2] display helps you determine the most suitable conditions for your indoor spaces all year round.

Easy plug-and-play

Our airCloud gateway makes installation a breeze.

Connect to the airCloud via 3G/4G[*3] or ethernet and pair your VRF systems via QR code scan. With automatic detection of indoor units and an optimized installer view, configuring your site and zones has never been quicker.
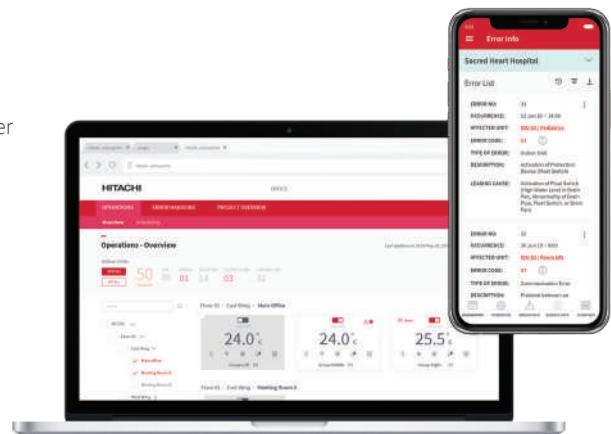
+ data security

Best-in-class standards:
TLS.v1.2, HTTPS 2038 encryption.

Minimal personal details:
Only your name, email address and phone number are required for login.

VARIABLE REFRIGERANT FLOW SYSTEM

91

SideSmart™

*2 Functions not available as of September 2019, coming soon.
*3 4G module available as a side accessory.

Centralized controllers

CENTRAL STATION EX FOR LARGE-SCALE BUILDINGS

(PSC-A128EX1)

227.2mm
372mm

32.5 27.8
Lateral view (mm)

For middle or large-scale buildings buildings such as hotels, educational facilities, and hospitals, our Central Station EX features a highly intuitive and functional 12.1-inch wide, wall-mountable, color LCD screen.

Control up to 2,560 indoor units with our proprietary H-LINK system with 15 extension adapters (PSC-AD128EX1).

Also, with energy calculation software (PSC-AS01EXC), Central Station EX can help you easily manage each tenant's electricity & report the power consumption of VRF system for each tenant.

Install by add-on software and activate, then, you can select electricity ratio or usage ratio from several methods.

Capacity

H-LINK	16
RC group	2,560 (*1)
Group	2,048 (*1)
Block	512 (*2)
Area	512 (*2)
Indoor unit	2,560 (*1)
Outdoor unit	1,024 (*1)
Building scale	Large

Extension adapter

PSC-AD128EX1

1) 1 extension adapter (PSC-AD128EX1) enables Central Station EX to control additional 160 RC groups / 128 groups / 160 IDUs / 64 ODUs. Central Station EX can connect up to 15 adapters.
(*2) No restriction on the number of H-LINK

Energy calculation software*

SD

PSC-AS01EXC

Specifications

Rated power supply	100~240VAC ±10% (50/60Hz)
Electrical power consumption	50W (Max.)
Communication unit	Units of Adopting for H-LINK
Communication line	Two-wire non-polar
Communication speed	9,600bps
Wiring length	1,000m (Total Length)
Display	12.1 inch TFT color liquid crystal display
Display control	Touch Panel

Functions

Operation unit	All together Each area Each block Each group Each indoor unit
Control function	On/Off Mode Set temperature Fan speed Louver RC prohibition Filter sign reset Function selection for indoor units (*1) Function selection for outdoor units (*2) Capacity control for outdoor units (*2) Lower noise control for outdoor units (*2)
Monitor function	On/Off Mode Set temperature Air intake temperature RC sensor temperature (*3) Air intake temperature of outdoor unit Fan Speed Louver RC prohibition Thermo-ON information Filter sign/Auto cleaning fault Alarm status/Alarm codes

Schedule function	Each of the following settings is available in 3 different [annual] [summer][winter] categories: → Weekly schedule → Up to 16 actions can be set per day → Exception day setting: 5 different types → Holiday setting Setting items in schedule is as below: • On/Off • Operation mode • Setting temperature • Louver • Fan speed • RC operation prohibition • Capacity control for outdoor units • Lower noise control for outdoor units
History	Alarm history: 10,000 records External In/Output history: 1,000 records Pulse input history: 6 months
Management report visualization	Up to 2 years worth of data history can be displayed for the following: • Accumulated operation time (min.) • Accumulated thermo-ON time (min.) • Average air intake temp temperature of indoor unit • Average air intake temperature of outdoor unit • Average setting temperature • Average RC sensor temperature

External input / output	Energy saving: • Run/Stop • RC prohibition • Temperature shift (For Cool/Dry mode: +1.0°C~+9.0°C (+1.0°F~+18.0°F)) (For Heat mode: -1.0°C~-9.0°C (-1.0°F~-18.0°F)) • Mode shift (Mode shifted to Fan when in Cool/Dry mode, and shifted to Stop in Heat mode) • Capacity control on outdoor units • Lower noise control for outdoor units Control/Monitor → Controlled items: • Run/Stop • Mode (Cool/Heat) → Monitored items: • Run/Stop • Mode (Cool/Heat) • Alarm state Others: • Power consumption signal input • Emergency stop

(*1) Some indoor units may not fully support all functions.
(*2) Available for applicable outdoor units only.
(*3) Whether this is shown on the screen depends on the remote controller settings.

Remote access.

You can now operate Central Station EX from your laptop PC or touch panel PC. Install our software and you can connect from anywhere, using our VPN network.

Example: school

Staff room

LAN — EX
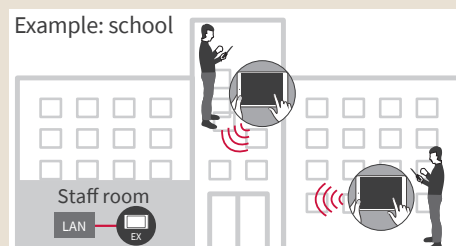
CENTRAL STATION EZ FOR MEDIUM-SCALE BUILDINGS

(PSC-A64GT)

170mm
250mm

80
25 55

Lateral view (mm)
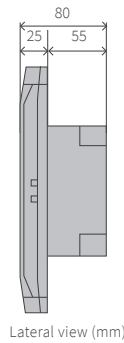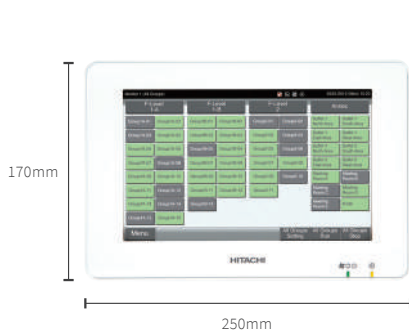
With easy control via an 8.5 inch color touch panel, its detailed control functionalities such as Weekly Scheduling, Operation hours tracking, and more, help you save energy. Up to 64 remote-controlled groups and up to 160 indoor units can be connected to the Central Station EZ.

Capacity

RC group	64
Group	64
Block	4
Indoor Unit	160
Outdoor Unit	64
Building Scale	Small-Medium

Specifications

| Rated Power Supply	1-, AC 100-240V, 50/60Hz
Electrical Power Consumption	30W (Max.)
Communication Unit	Units of Adopting for H-LINK
Communication Line	Non-polar 2-wire
Communication Speed	9,600bps
Wiring Length	1,000m (Total Length)
Display	8.5-inch Wide Color LCD (Full Dot)
Display Control	Touch Panel

Functions

Monitor Function	• Run/Stop/Abnormality • Setting Temperature • RC Operation Prohibited Setting • Accumulated Operating Time • Operation Mode • Setting Fan Speed • Setting Louver • Filter Sign • Alarm Code
Control Function	• Run/Stop* • Fan Speed • Operation Mode • Louver • Temperature Setting • RC Operation Prohibited • Filter Sign Reset

*The "All Groups Run/Stop" command signal exception function for selected groups is available via the "Exception of Run/Stop Operation" function.

CENTRAL STATION MINI FOR SMALL-SCALE BUILDINGS

(PSC-A32MN)

120mm
140mm

22 52.7

Lateral view (mm)
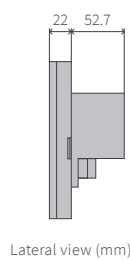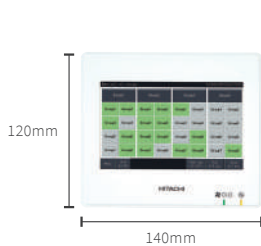
With easy control via an 5.0 inch color touch panel, its detailed control functionalities such as weekly scheduling, operation hours tracking, help you save energy. Up to 32 remote-controlled groups and up to 160 indoor units can be connected to the Central Station mini.
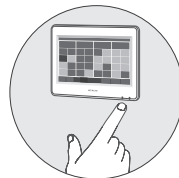
Capacity

RC group	32
Group	32
Block	4 Patterns (2/4/8/16)
Indoor Unit	160
Outdoor Unit	64
Building Scale	Small

Specifications

Rated Power Supply	1-, AC 100-240V, 50/60Hz
Electrical Power Consumption	20W (Max.)
Communication Unit	Units of Adopting for H-LINK
Communication Line	Non-polar 2-wire
Communication Speed	9,600bps
Wiring Length	1,000m (Total Length)
Display	5.0-inch Wide Color LCD (Full Dot)
Display Control	Touch Panel

Functions

Monitor Function	• Run/Stop/Abnormality • Setting Temperature • RC Operation Prohibited Setting • Accumulated Operating Time • Operation Mode • Setting Fan Speed • Setting Louver • Filter Sign • Alarm Code"
Control Function	• Run/Stop* • Fan Speed • Operation Mode • Louver • Temperature Setting • RC Operation Prohibited • Filter Reset Signal

* "All Groups Run/Stop" command signal exception function for selected groups is available by "Exception of Run/Stop Operation." function.

VARIABLE REFRIGERANT FLOW SYSTEM

SideSmart™

Individual controllers

ADVANCED COLOR WIRED REMOTE CONTROLLER (PC-ARFG)

· Exclusive color screen & Award-winning design.
· Simplified menu and enhanced UIUX.
· Includes latest VRF features such as FrostWash™ and several comfort settings.

WIRED REMOTE CONTROLLER (HCWA10NEGQ)

· 88mm square controller with LCD screen.
· Smaller body with multiple features.
· Best option for spaces frequented by recurring users, e.g. offices.

ADVANCED WIRELESS REMOTE CONTROLLER (PC-AWR)

· Wireless remote controller with more features.
· Several temperature units and settings available; 0.5°C/1.0°C/1.0°F.
· Ideal for controlling the unit from anywhere in the room, e.g. residential spaces.

ADVANCED WIRED REMOTE CONTROLLER (PC-ARF1)

· 120mm square controller with LCD screen.
· Multiple power-saving features.
· Best option for spaces frequented by the same users, e.g. offices.

SIMPLIFIED WIRED REMOTE CONTROLLER (PC-ARH1)

· Focused on easy operation.
· Mainly for temperature setting.
· Ideal for spaces that accommodate short-term visitors, e.g. hotels and hospital rooms.

WIRELESS REMOTE CONTROLLER (PC-LH7QE)

· Budget option featuring primary control settings.
· 1.0°C temperature step.
· Ideal for visitors to control the unit from anywhere in the room, e.g. hotel suite.

FROM BASIC
TO ADVANCED CONTROLS

		ADVANCED COLOR WIRED REMOTE CONTROLLER	ADVANCED WIRED REMOTE CONTROLLER	WIRED REMOTE CONTROLLER	SIMPLIFIED WIRED REMOTE CONTROLLER	ADVANCED WIRELESS REMOTE CONTROLLER	WIRELESS REMOTE CONTROLLER
		NEW PC-ARFG	PC-ARF1	HCWA10NEGQ	PC-ARH1	PC-AWR	PC-LH7QE
Connection Capacity	RC Groups	1	1	1	1	-	-
	Indoor units (*1)	16	16	16	16	-	-
Setting	Temperature Setting Rate (*2)	0.5℃/1.0℃/1.0°F	0.5℃/1.0℃/1.0°F	0.5℃/1.0℃/1.0°F	0.5℃/1.0℃/1.0°F	0.5℃/1.0℃/1.0°F	1.0℃
	Indoor Fan Speed (*2) (*3)	3/4/6 taps	3/4/6 taps	3/4/6 taps	3/4/6 taps	3/4/6 taps	3/4/6 taps
	Louver Direction (*2)	●	●	●	●	●	●
	Individual Louver Setting (*2)	●	●	●	-	-	-
	Remote Control Primary-Secondary Setting	●	●	-	●	-	-
	In Use of Total-Heat-Exchanger — Ventilation	●	●	-	-	-	-
	In Use of Total-Heat-Exchanger — Total Heal Exchanger Setting	●	●	-	-	-	-
	Function Selection — Automatic Restart with Eco-operation	●	●	-	-	-	-
	Function Selection — Automatic Reset Temperature (Cooling)	●	●	●	●	-	-
	Function Selection — Temperature Indication (*4)	●	●	●	-	-	-
Service & Installation	Admin Password Setting	●	-	-	-	-	-
	Filter Signal	●	●	●	-	-	-
	Filter Signal Reset	●	●	●	-	●	●
	Louver Open/Close	●	●	-	-	-	-
	Room Name Setting	●	●	-	-	-	-
	Alarm Signal	●	●	●	●	-	-
	Side-by-side indoor unit identification	-	-	-	-	●	●
	Hotel mode	●	-	-	-	-	-
	Fan Speed at Thermo-Off (Cooling/Heating)	●	●(*7)	●(*7)	●(*7)	-	-
	Screen — Screen Adjustment	●	●	-	-	-	-
	Screen — Language	English, Japanese, Chinese (traditional & simplified), French, Spanish, Portuguese	English, French	-	-	-	-
	Screen — Temperature Unit_℃/°F (*5)	●	●	●	● (*5)	●	-
	Screen — Run Indicator brightness adjustment	●	●	-	-	-	-
	Screen — Key touch sound	●	-	●	-	-	-
	Check Menu — Sensor Condition Check	●	●	●	●	-	-
	Check Menu — Sensor Data Check	●	●	●	●	-	-
	Check Menu — Model Display (*2)	●	●	-	-	-	-
	Check Menu — Indoor/Outdoor PCB Check	●	●	-	-	-	-
	Check Menu — Alarm History Display	●	●	●	-	-	-
	Test Run — Test Run	●	●	●	-	-	-
	Test Run — Function Selection (Optional Function Setting)	●	●	●	●	-	-
	Test Run — Thermistor Selection	●	●(*7)	●(*7)	●(*7)	-	-
	Test Run — Thermistor Calibration	●	●(*7)	-	●(*7)	-	-
	Test Run — Input / Output Setting	●	●	●	●	-	-
	Test Run — Indoor Unit Address Change	●	●	●	-	-	-
	Test Run — Indoor Unit Address Operation Check	●	●	-	-	-	-
	Test Run — Indoor Unit Address Initialization	●	●	-	-	-	-
	Test Run — Input / Output Setting Initialization	●	●	-	-	-	-
	Test Run — Compressor Pre-Heat Control Cancellation	●	●	-	-	-	-
	Test Run — Contact Information Registration	●	●	-	-	-	-
Management	Operation Lock/Set	●	●(*7)	● (*6)(*7)	●(*7)	-	-
	Lower Limit for Cooling Operation	●	●(*7)	●(*7)	●(*7)	-	-
	Upper Limit for Heating Operation	●	●(*7)	●(*7)	●(*7)	-	-
	Simple Timer (On/Off)	●	●	●	-	●	●
	Date/time setting	●	●	●	-	-	-
	Automatic OFF Timer Setting	●	●(*7)	-	●(*7)	-	-
	Schedule — Weekly Schedule	●	●	●	-	-	-
	Schedule — Settable Timer Operation Times (Per Day)	5	5	1	-	-	-
	Schedule — Holiday Setting	●	●	-	-	-	-
	Schedule — Schedule On/Off	●	●	-	-	-	-
Power-Saving	Power-Saving with Motion Sensor	●	●	-	-	-	-
	Outdoor Unit Capacity Control — Peak cut control	●	●	-	-	-	-
	Outdoor Unit Capacity Control — moderate control	●	●	-	-	-	-
	Indoor Unit Rotation Control — Indoor Unit Address	●	●	-	-	-	-
	Indoor Unit Rotation Control — Indoor Air Temperature difference	●	●	-	-	-	-
	Indoor Unit Rotation Control — With Motion Sensor	●	●	-	-	-	-
	Automatic Fan Operation	●	●	-	-	-	-
MENU	Auto-Elevating Grille	●	●	-	-	-	-
	ODU Night Quiet Mode	●	●	-	-	-	-
	AutoBoost (quick function)	●	●	-	-	-	-
	Comfort Setting — Control Cool Air (GentleCool)	●	●	-	-	-	-
	Comfort Setting — Direct/Indirect louver direction in COOL	●	●	-	-	-	-
	Comfort Setting — Direct/Indirect louver direction in HEAT	●	●	-	-	-	-
	Comfort Setting — Radiant Sensor Control for Heating	-	●	-	-	-	-
	Comfort Setting — FeetWarm; Heat Air Flow	●	-	-	-	-	-
	Comfort Setting — FloorSense; Cool Air Flow	●	-	-	-	-	-
	Power Saving/Night Quiet Schedule	●	●	-	-	-	-
	Filter Cleaning	●	●	-	-	-	-
	FrostWash™ Setting	●	-	-	-	-	-
	Daylight Saving Time	●	●	-	-	-	-
	Setback (Hotel Temperature Setback)	●	●	-	-	-	-
	Power Consumption Display	●	-	-	-	-	-

(*1) All 16 indoor units need to be connected with transition wire.
(*2) Actual availability may vary depending on the indoor unit model connected to the controller. Please consult your Hitachi Cooling & Heating representative for more details.
(*3) 6 steps available in RPIZ-HNDTSQ compact ducted indoor unit only.
(*4) Reference room temperature can be chosen: from indoor unit's air inlet thermistor or from the thermistor built-in the controller itself.
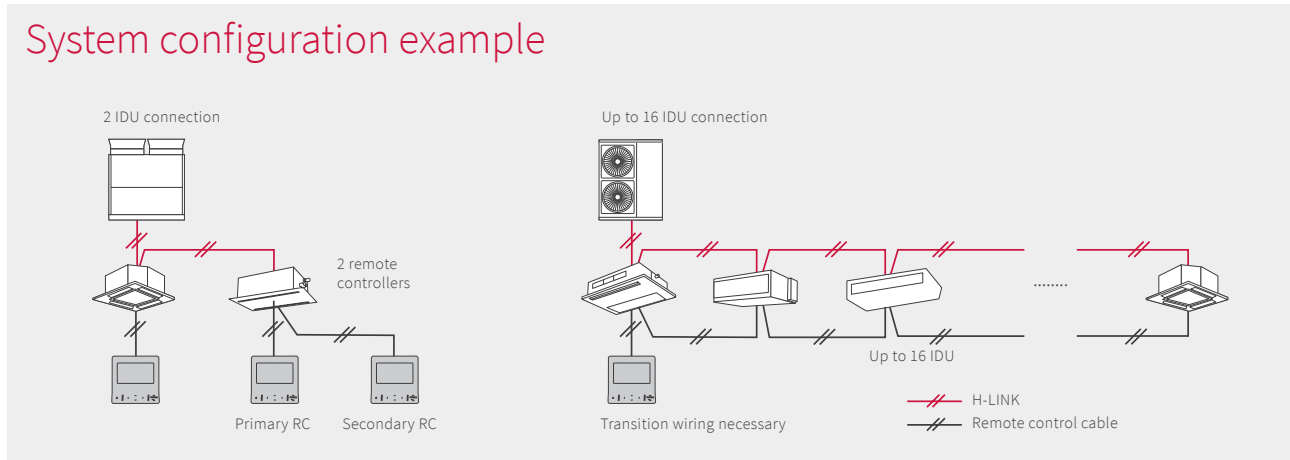
(*5) Please contact your distributor in case temperature unit needs to be changed from ℃ to °F.
(*6) Only "bulk operation lock" available.
(*7) Optional setting Items for function selection.

Individual controllers

ADVANCED COLOR WIRED REMOTE CONTROLLER (PC-ARFG)

Room name
Set temperature
Set temperature setpoint
Operation mode
Indoor unit ON/OFF light
Indoor unit ON/OFF
Navigation buttons

Conference Room

26.0 °C

26.0 Temp
Cool
Fan Speed
Louver
Menu

Filter cleaning reminder
Access to menu
Louver direction
Fan speed
OK button
Back button

Outer dimensions (H×W×D)
121×120×16.5mm (thinnest)
121×120×21.5mm (thickest)

System configuration example

2 IDU connection

2 remote controllers

Primary RC   Secondary RC

Up to 16 IDU connection

Up to 16 IDU

Transition wiring necessary

H-LINK
Remote control cable

Functions

Function menu		Service and installation menu / Service		Service and installation menu / Installation	
	Simple Timer		Lock Function		Setting Initialization
	Operation Schedule		Password Setting		Main Remote Setting
	Power-Saving Setting		Hotel Mode Set hotel mode valid/invalid		Priority Setting
	Night Quiet Operation		Power-Saving Detail Setting		Cancel Preheating Control
	Power-Saving/Night Quiet Schedule		Temperature Range Restriction		Elevating Grille Setting
	Power Consumption Display		Dual Setpoint		Power Up Setting
	Autoboost		Main/Sub Display		Setback Trigger Unit
	Comfort Setting		Set Room Name		Check 1
	Motion Sensor Setting		Set Contact Information		Check 2
	Setback Setting		Simple Maintenance		Alarm History Display
	Elevating Grille		Test Run		Display Model Number
	Reset Filter Reminder Time		Function Selection		Units PCB check
	Filter cleaning		Input/Output		Self Check
	FrostWash™ Setting		Thermistor Selection		
	Individual Louver Setting		Thermistor Calibration in Controller		
	Louver Open/Close		Fan Speed at Thermo-Off (cooling/heating mode)		
	Ventilation		Indoor Unit Address Change		
	Total Heat Exchanger SET		Address Check Operation		

Screen Display setting	
	Adjust Date/Time
	Run Indicator Brightness
	Display Adjustment
	Temperature
	Language Setting

Service and installation menu / Installation:
Address Initialization

Service and installation menu / Check

Outstanding design and user experience.

With a sleek, award-winning design, our new advanced color controller offers elegance and ease-of-use.
A simplified, intuitive and colorful menu makes controlling your ideal climate a breeze.

Cooling mode
(Color: warm blue)

Heating mode
(Color: warm orange)

Fan mode
(Color: cool purple)

Dry mode
(Color: cool turquoise)

Auto mode
(Color: sand)

From basic to advanced functions

Adjust the air conditioning to enhance comfort and save energy with ease.

1) Functions include GentleCool, which controls the temperature of discharged air, for smooth cooling down and cold drafts prevention. AutoBoost activates for 30 minutes every time the AC is turned on, helping the room reach the desired temperature faster with a powerful automatic mode.

2) AC scheduling is easier than ever, thanks to flexible options such as a holiday calendar.

3) Save even more energy with power-saving functions for VRF system operators. Cut peak capacity, rotate the thermal operation of indoor units, and use Hitachi's dedicated power-saving schedule to match your utility tariff plan.

Additional functions

- Activate, schedule and check the history of indoor units' FrostWash™ function.
- Minimize outdoor unit noise at night with the schedulable quiet mode.
- **NEW** Hotel mode display provides quick access to the most popular AC functions for guests, including language selection.
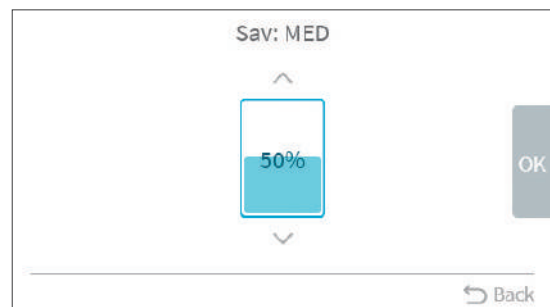
Capacity control setting
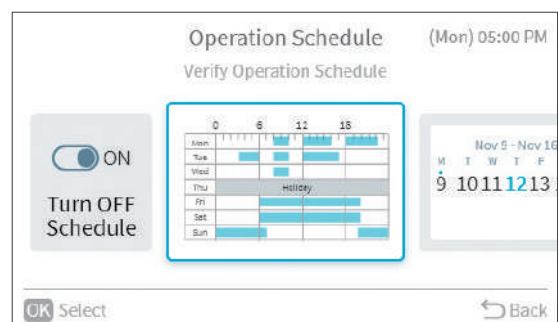
Schedule menu

FrostWash™ menu

Individual controllers

Advanced Color wired remote controller (PC-ARFG)

ADVANCED WIRED REMOTE CONTROLLER (PC-ARF1)

Room name indicator
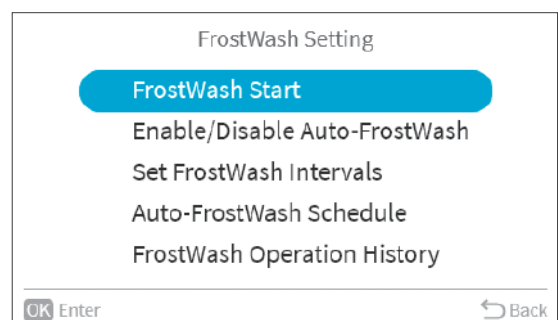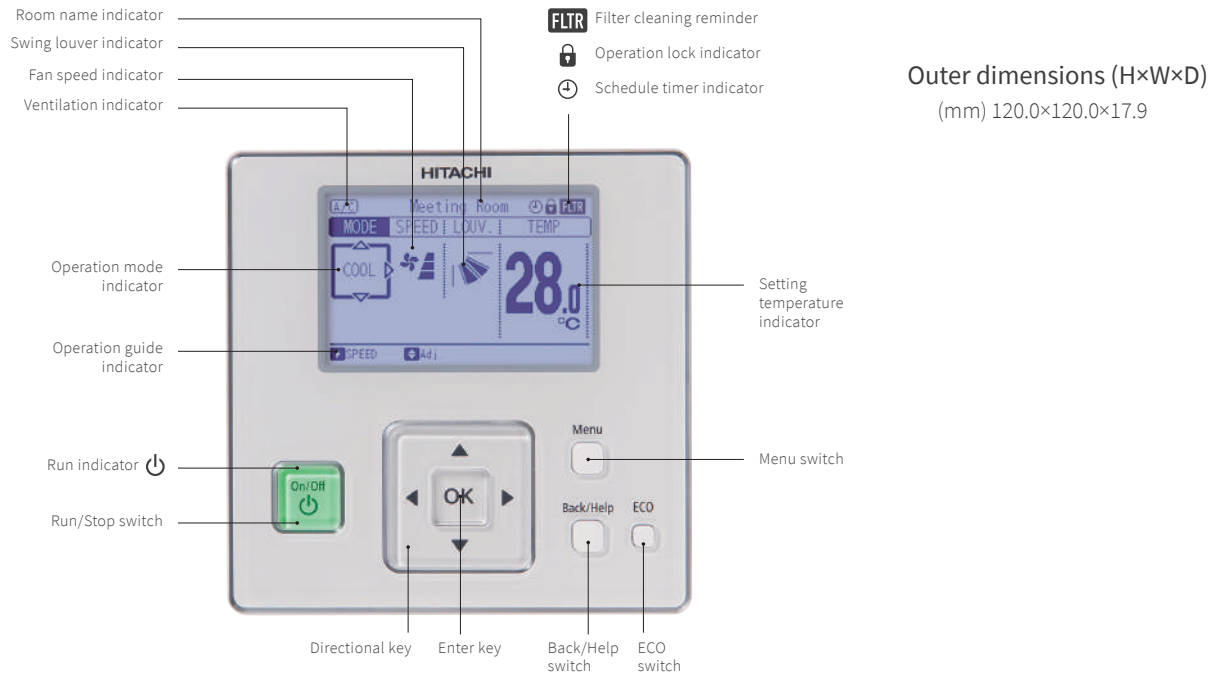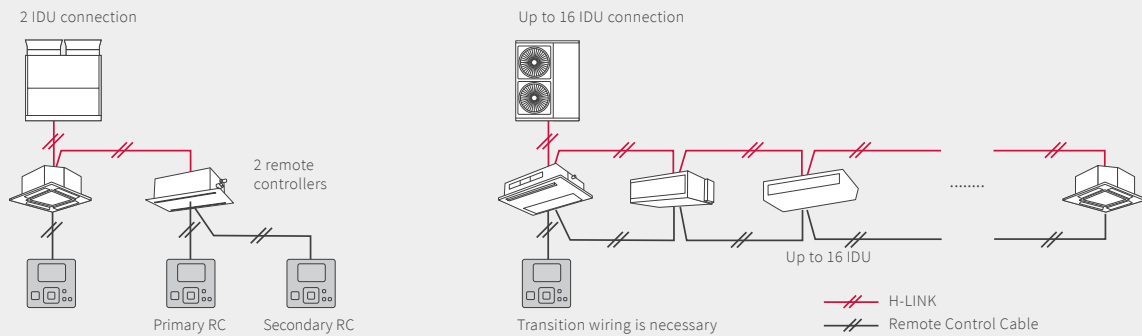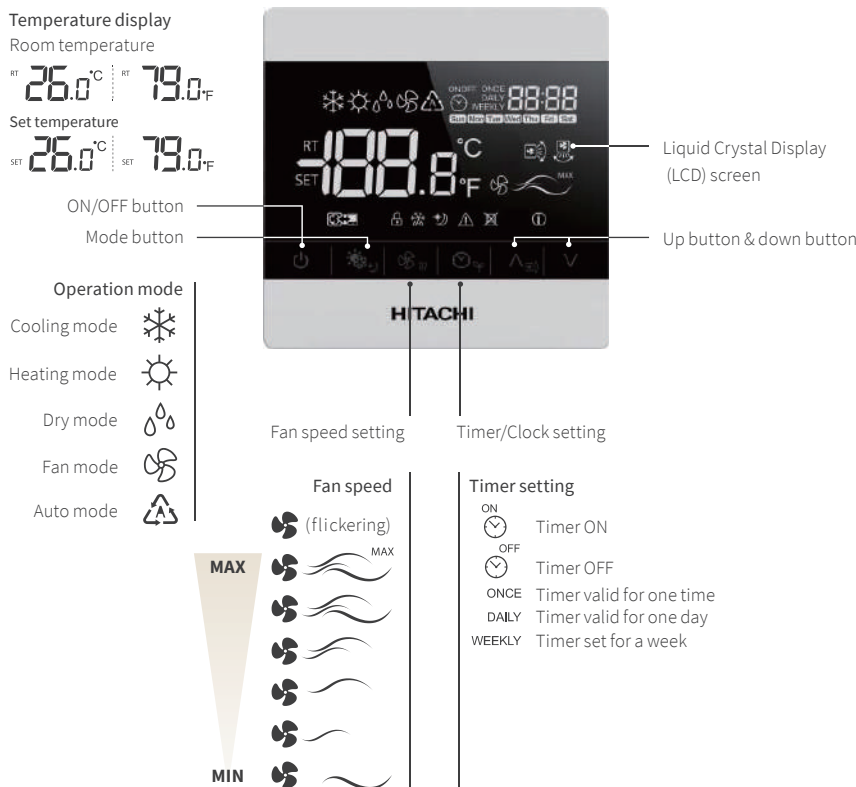Swing louver indicator
Fan speed indicator
Ventilation indicator

FLTR Filter cleaning reminder
🔒 Operation lock indicator
🕐 Schedule timer indicator

Outer dimensions (H×W×D)
(mm) 120.0×120.0×17.9

Operation mode indicator
Operation guide indicator

Setting temperature indicator

Run indicator
Run/Stop switch

Menu switch

Directional key
Enter key
Back/Help switch
ECO switch

VARIABLE REFRIGERANT FLOW SYSTEM

99

SlideSmart™

System configuration example

2 IDU connection

2 remote controllers

Primary RC   Secondary RC

Up to 16 IDU connection

Up to 16 IDU

Transition wiring is necessary

—╫— H-LINK
—╫— Remote Control Cable

Functions

Setting	Run/Stop		**Screen**	Screen Adjustment	**Management**	Operation Lock/Set
	Operation Mode			Language		Main/Sub Control
	Auto Mode Setting			Temperature Unit °C /°F		Built-in-Timer (On/Off)
	Temperature Setting			Adjusting Brightness of Run Indicator		Adjusting Date/Time Setting
	Temperature Setting Rate 0.5°C/1.0°C/1.0°F		**Check Menu**	Sensor Condition Check		Thermometer Indication
	Fan Speed 3/4/6 Taps			Sensor Data Check	**Power-Saving**	With Motion Sensor Kit
	Louver Direction			Model Display		ODU Capacity Control
	Individual Louver Setting			Indoor/Outdoor PCB Check		• Peak-cut Control
	Remote Control Primary-Secondary Setting			Self Checking		• Moderate Control
	In Use of Total-Heat-Exchanger	Ventilation		Alarm History Display		Indoor Unit Rotation Control
		Total Heal Exchanger Setting	**Test Run**	Test Run		Automatic Fan Operation
	Function Selection	Automatic Restart with Eco-operation		Function Selection (Optional Function Setting)		Auto Recovery of Temperature
		Automatic Reset Temperature (Cooling /Heating)		Thermistor Selection		Upper Limit for Heating Operation
		Temperature Indication		Input/Output Setting		Lower Limit for Cooling Operation
Service	Filter Signal			Indoor Unit Address Change		Power Consumption Visualization
	Filter Signal Reset			Indoor Unit Address Checking Operation	**Schedule**	Weekly Schedule
	Louver Open/Close			Indoor Unit Address Initialization		Set Timer Operation Times (per day): 5
	Room Name Setting			Input-Output Setting Initialization		Holiday Setting
	Alarm Sign			Compressor Pre-Heat Control Cancellation		Schedule On/Off
				Contact Information Registration		ODU Noise Reduction Schedule

Individual controllers

WIRED REMOTE CONTROLLER (HCWA10NEGQ)

Temperature display

Room temperature

RT **26.0** °C | RT **79.0** °F

Set temperature

SET **26.0** °C | SET **79.0** °F

ON/OFF button
Mode button

Operation mode

Cooling mode	❄
Heating mode	☀
Dry mode	◌◌
Fan mode	⦿
Auto mode	⚠

Liquid Crystal Display (LCD) screen

Up button & down button

Fan speed setting   Timer/Clock setting

Fan speed

MAX

(flickering)

MAX

MIN

Timer setting

ON	Timer ON
OFF	Timer OFF
ONCE	Timer valid for one time
DAILY	Timer valid for one day
WEEKLY	Timer set for a week

Outer dimensions (H×W×D)

(mm) 88.0×88.0×15.5

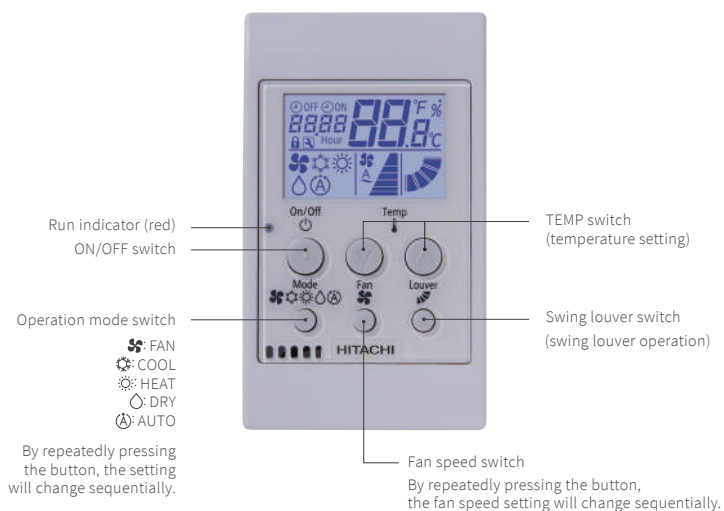### Functions

	Run/Stop
	Operation Mode
	Auto Mode Setting
	Temperature Setting
Setting	Temperature Setting Rate 0.5°C/1.0°C/1.0°F
	Back-light screen
	Fan Speed 3/4/6 taps
	Louver Direction
	Key touch sound
	Sensor Condition Check
Service	Sensor Data Check
	Alarm History Display
	Test Run
	Function Selection (Optional Function Setting)
	Thermistor Selection
Test Run	Thermistor Calibration
	Input / Output Setting
	Indoor Unit Address Change
	Operation Lock/Set
Management	Lower Limit for Cooling Operation
	Upper Limit for Heating Operation
Schedule	Simple Timer (On/Off)
	Date/time setting

Notes:
1. Fan speed taps setting unit availability varies with the indoor unit. Please check each technical catalog in advance.
2. Initial setting of temperature display is "Set temperature" display only. Please contact your dealer to display room temperature.

SIMPLIFIED WIRED REMOTE CONTROLLER (PC-ARH1)

Run indicator (red)
ON/OFF switch

Operation mode switch

⦿: FAN
☀: COOL
☀: HEAT
◌: DRY
Ⓐ: AUTO

By repeatedly pressing the button, the setting will change sequentially.

TEMP switch (temperature setting)

Swing louver switch (swing louver operation)

Fan speed switch

By repeatedly pressing the button, the fan speed setting will change sequentially.

Outer dimensions (H×W×D)

(mm) 120.0×70.0×17.0

Functions

	Run/Stop
	Operation Mode
	Auto Mode Setting
	Temperature Setting
Setting	Temperature Setting Rate 0.5°C/1.0°C/1.0°F
	Back-light screen
	Fan Speed 3/4/6 taps
	Louver Direction
	Function Selection (Optional Function Setting)
	Thermistor Selection
Test Run	Thermistor Calibration
	Input / Output Setting
	Operation Lock/Set
Management	Lower Limit for Cooling Operation
	Upper Limit for Heating Operation
	Automatic OFF Timer Setting

*Please contact your dealer in case "temperature setting rate" needs to be changed from °C to °F.

ADVANCED WIRELESS REMOTE CONTROLLER (PC-AWR)

Transmitter

Transmitting indication
LCD (Liquid Crystal Display)

Mode selection switch
Reset switch

Fan speed switch
On switch
Off switch

Timer switches

Louver angle switch
Temp. switch
Filter reset switch

Outer dimensions (H×W×D) (mm) 140.0×55.0×16.8

Functions

Setting		Service	Filter Sign Reset
	Run/Stop		Side-by-side indoor unit identification
	Operation Mode		
	Auto Mode Setting		Temperature Unit °C/°F
	Temperature Setting	Schedule	Built-in Timer (On/Off)
	Temperature Setting Rate 0.5°C/1.0°C/1.0°F		
	Fan Speed 3/4/6 Taps		
	Louver Direction		

WIRELESS REMOTE CONTROLLER (PC-LH7QE)

Transmitter

Transmitting indication
LCD (Liquid Crystal Display)

Run/Stop switch

Temp. switch

Louver angle switch

Timer switches

Reset switch

Outer dimensions (H×W×D) (mm) 140.0×52.0×19.3

Functions

Setting		Service	Side-by-side indoor unit identification
	Run/Stop		
	Operation Mode		Temperature Unit °C
	Auto Mode Setting	Schedule	Built-in Timer (On/Off)
	Temperature Setting		
	Temperature Setting Rate 1.0°C		
	Fan Speed 3/4/6 Taps		
	Louver Direction		

RECEIVER KIT FOR WIRELESS REMOTE CONTROLLER

Model				PC-RLH11 (Basic)				PC-ALHZ1 (Advanced)		

Indoor unit	Ducted High ESP (AC Motor)	Ducted Medium ESP (AC Motor)	Ducted Low ESP (AC Motor)	Ducted Compact AC Motor	Ducted Compact DC Motor	Ducted Larger Air Volume (AC Motor)	Wall-Mounted (AC Motor)	Floor / Ceiling Convertible	Floor Concealed
	RPI-HNAUNQ RPI-FSNQ	RPIM-HNAUNQ RPI-FSN3Q	RPIL-HNAUNQ	RPIZ-HNATNQ	RPIZ-HNDTSQ	RPI-FSN2SQ	RPK-FSNQS	RPFC-FSNQ	RPFI-FSNQ
Advanced Wireless Remote Controller **PC-AWR**	○	○	○	○	○	○	○	○	○
Standard Wireless Remote Controller **PC-LH7QE**	○	○	○	○	○	○	○	○	○

Model	HR4A10NEWQ (Basic)	PC-ALH3 (Advanced)	PC-ALHC1 (Advanced)	P-AP56NAMR (Advanced)	PC-ALHD1 (Advanced)	PC-ALHS1 (Advanced)	PC-ALHP1 (Advanced)				PC-ALHZ1 (Advanced)	

Indoor unit	4-way Cassette	4-way Cassette	4-way compact Cassette	4-way compact Cassette	2-way Cassette	1-way Cassette	Ceiling Suspended	Wall-Mounted	Floor Exposed	Floor Concealed	Ducted High ESP	Ducted Medium ESP
	RCI-FSKDNQ	RCI-FSRP	RCIM-FSRE	RCIM-FSRE	RCD-FSR	RCS-FSR	RPC-FSR	RPK-FSRM RPK-FSRHM	RPF-FSN2E	RPFI-FSN2E	RPI-FSR RPI-FSN1	RPIM-FSR
Advanced Wireless Remote Controller **PC-AWR**	○	○	○	○	○	○	○	○	○	○	○	○
Standard Wireless Remote Controller **PC-LH7QE**	○	–	–	–	–	–	–	–	–	–	–	–

Basic Limited function available for centralized controllers
Temperature setting rate [1.0°C] only
Advanced Full function available for centralized controllers
Temperature setting rate [0.5°C/1.0°C/1.0°F]

(*) Basic function receiver kit is installed as a standard part in this wall-mounted unit. Wireless remote controller (PC-LH7QE) is delivered as a standard accessory as well.
 If separate placement of receiver kit is required, please use optional basic receiver kit [PC-RLH11] or optional advanced receiver kit [PC-ALHZ1].

Notes:
When using a basic receiver kit PC-RLH11 or HR4A10NEWQ together with wireless remote controller PC-LH7QE:
1) It won't be possible to lock individual remote controllers from Hitachi Central Stations (mini/EZ/EX)
2) It won't be possible to apply min/max restrictions on set temperature from Hitachi Central Stations (mini/EZ/EX)

VARIABLE REFRIGERANT FLOW SYSTEM

101

SideSmart™

Accessories

3P CONNECTOR CABLE PCC-1A

FOR CONNECTION TO REMOTE ON/OFF DEVICE/RECEIPT OF OUTPUT SIGNAL

Operation example

· Cooling operation:
Compressor is ON by closing terminals 2 and 3 of CN3.
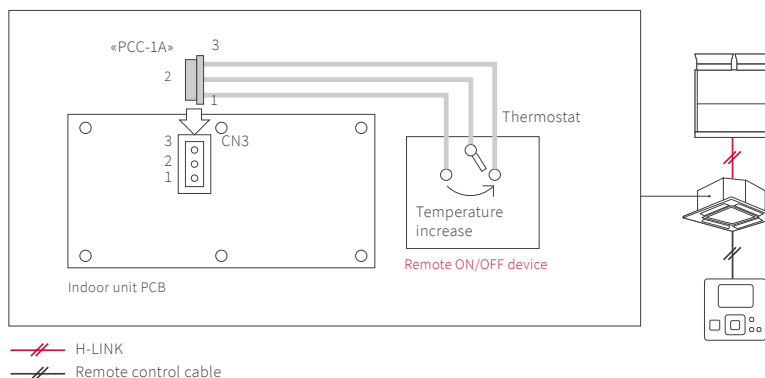Compressor is OFF by opening terminals 2 and 3 of CN3.

· Heating operation:
Compressor is ON by closing terminals 1 and 2 of CN3.
Compressor is OFF by opening terminals 1 and 2 of CN3.

*One set contains five 3P connector cables.
*PCC-1A can connect to external signal input-output terminal both in outdoor unit and indoor unit.

System configuration example
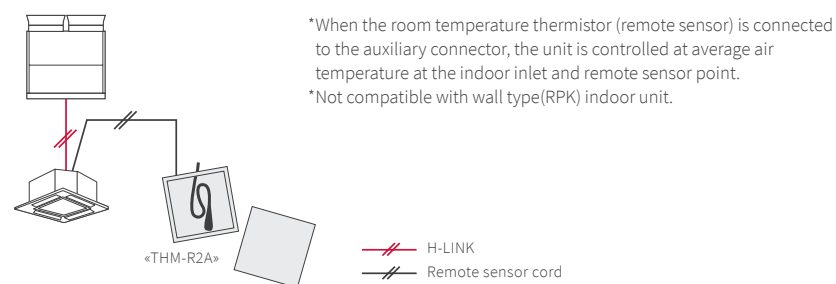

REMOTE SENSOR THM-R2A

ROOM TEMPERATURE SENSOR

Outer dimensions (H×W×D)
(mm) 50.0×50.0×15.0

Length	m	8.00

System configuration example

*When the room temperature thermistor (remote sensor) is connected to the auxiliary connector, the unit is controlled at average air temperature at the indoor inlet and remote sensor point.
*Not compatible with wall type(RPK) indoor unit.
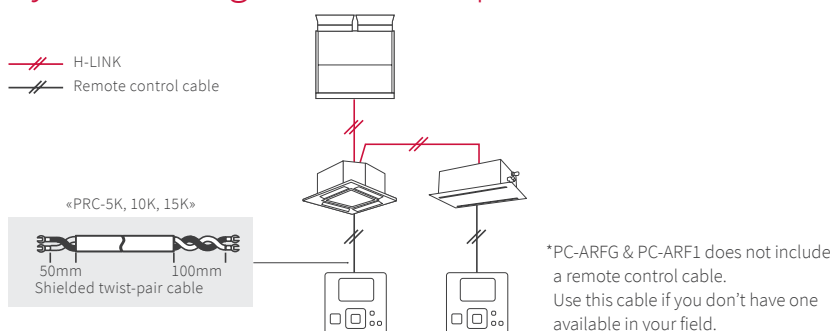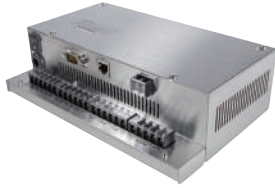

REMOTE CONTROL CABLE PRC-5K, 10K, 15K

FOR PC-ARFG & PC-ARF1 CONNECTION (TO IDU)

		PRC-5K	PRC-10K	PRC-15K
Length	m	5.00	10.00	15.00

System configuration example

*PC-ARFG & PC-ARF1 does not include a remote control cable.
Use this cable if you don't have one available in your field.

BMS ADAPTER for BACnet® HC-A64BNP1

CONTROL UP TO 64 INDOOR UNITS
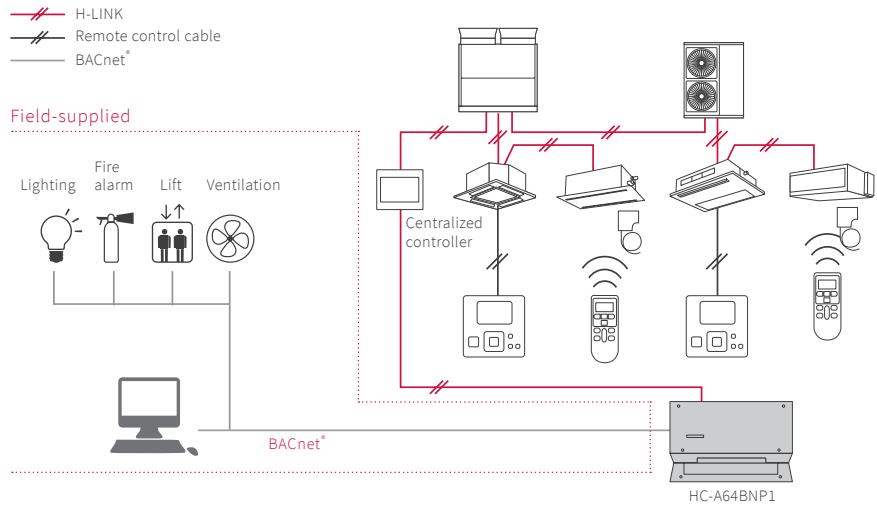
Specifications

Outer dimensions (H×W×D)

(mm) 68.0×240.0×154.0

Functions

Corresponding BACnet® Standard	ANSI/ASHRAE Standard 135-2004 BACnet®
Control Item at Upper System	• Run Stop (Setting) • Operation Mode (Setting) • Fan Speed Level (Setting) • Indoor Temperature (Setting) • RC Operation lock (Setting) • Filter Sign Reset
Monitoring Item at Upper System	• Run Stop (State) • Operation Mode (State) • Fan Speed Level (State) • Indoor Temperature (State) • Prohibiting RC Operation (State) • Filter Signal • Indoor Air Intake Temperature • Alarm Signal • Alarm Code • Communication State

System configuration example

H-LINK
Remote control cable
BACnet®

Field-supplied

Lighting Fire alarm Lift Ventilation

Centralized controller

BACnet®

HC-A64BNP1

VARIABLE REFRIGERANT FLOW SYSTEM

103

SideSmart™

H-LINK: enjoy more freedom

WHAT IS H-LINK?

H-LINK is Hitachi Cooling & Heating original communication system to control multiple VRF refrigerant systems from one centralized control point.

H-LINK simplifies commissioning and service maintenance for installers and service engineers. For building owners and occupants, it provides outstanding versatility enabling the connection of various types of central control options, enabling better system management. Our proprietary high-performance communication system enables the connection of control wiring between indoor and outdoor units, and between a centralized control system and indoor/outdoor units across two or more refrigerant systems.

Examples

Educational institutions such as primary schools where installation work cannot be performed on weekdays.

Hotels where it is preferable to complete installation work during late evenings.

Rehabilitation facilities or hospitals where it is necessary to minimize the burden on users.

3x more benefits!

1
Flexible wiring routes: no restrictions & time-saving at installation.
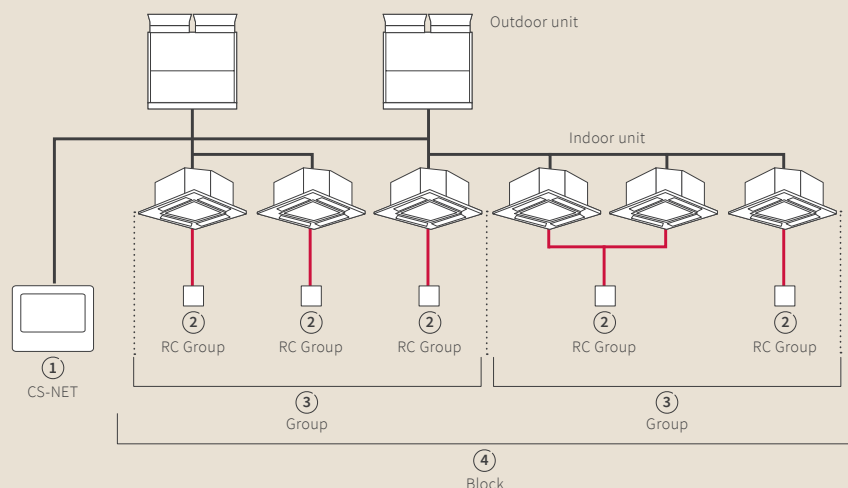
2
Can connect with various types of Hitachi air conditioning products, including VRF and mini splits, for centralized controls.

3
No adapter is needed! Simple connection to terminal blocks.

Definition of terms in Hitachi centralized control systems

Outdoor unit

Indoor unit

① CS-NET

② RC Group   ② RC Group   ② RC Group   ② RC Group   ② RC Group

③ Group   ③ Group

④ Block

① **CS-NET/Central station**
→ Hitachi original centralized controller.

② **RC Group** (Remote Controller System Group)
→ Stands for a number of indoor units (up to 16 units) connected using "same remote controller" wiring. In this group, connected indoor units are all controlled in the same way.

③ **Group**
→ Stands for the multiple "RC groups" that are registered in the centralized controller network setting.

④ **Block**
→ Stands for the multiple "groups" that are registered in the centralized controller network setting.

CENTRALIZED CONTROLS: FLEXIBLE WIRING ROUTE!

(1) • Multiple refrigerant systems located in one area.

   • Central monitoring room in separate area.

H-LINK SOLUTION

→ Wire the central station to the closest indoor unit.
→ Wiring distance is reduced substantially.

CENTRAL CONTROL ROOM

AREA 1
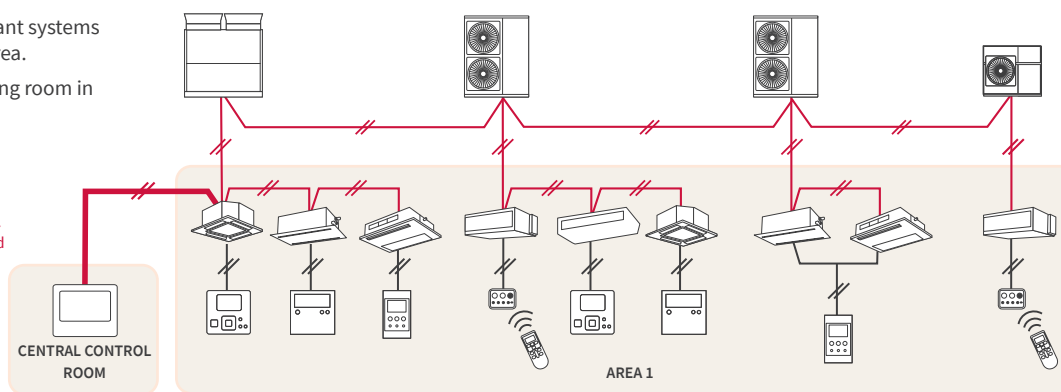
(2) • Refrigeration systems in different places.

    • Some indoor units of each respective system are close to one another.
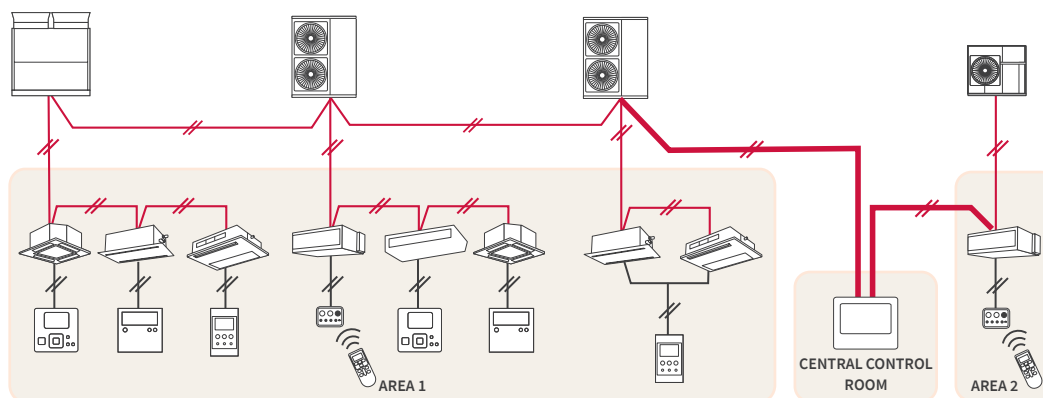
H-LINK SOLUTION

→ Where two indoor units of each respective system are close together: you can connect two refrigerant systems via the indoor units.
→ Wiring distance is reduced substantially.

CENTRAL CONTROL ROOM

AREA 1

AREA 2
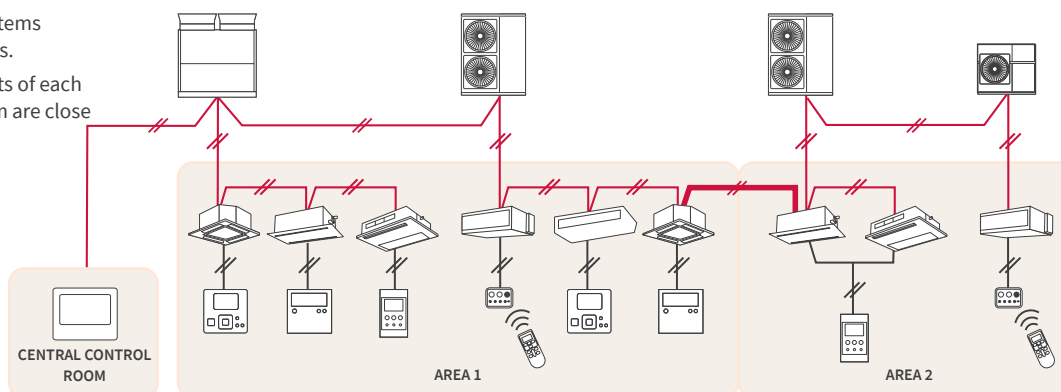
(3) • One refrigerant system far away from theremaining ones.

H-LINK SOLUTION

→ Connect the farthest refrigerant system directly to central station either to outdoor units or indoor units.
→ The central station can make the central link between the different refrigerant systems.

AREA 1

CENTRAL CONTROL ROOM

AREA 2

(4) • Each refrigerant system in separate areas.

    • Indoor units are closer from one group to another.

H-LINK SOLUTION

→ Centralized control can be achieved by connecting the refrigerant systems via the closer indoor units.
→ Wiring can be indoors only.

CENTRAL CONTROL ROOM

AREA 1

AREA 2

AREA 3

AREA 4
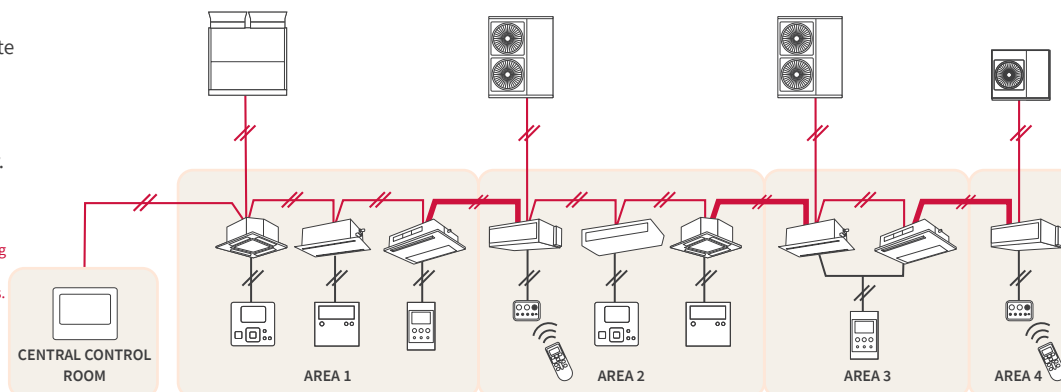
H-LINK solution   H-LINK   Remote control cable

VARIABLE REFRIGERANT FLOW SYSTEM

105

SideSmart™

Notes

air

—
Johnson Controls-Hitachi Air Conditioning (Thailand) Co.,Ltd.

719 KPN Tower, 9th Floor, Rama 9 Road, Bangkapi, Huaykhwang, Bangkok 10310.

SALES OFFICE
JCH-TH-SUPPORT@JCI-HITACHI.COM

GENERAL HOTLINE
+66 2-838-1234

SOCIAL MEDIA

f ▶ ⊙ in 🐦

hitachiaircon.co.th

CERTIFICATE
Outdoor Unit Manufacturing Site: Johnson Controls-Hitachi Air
Conditioning Wuhu Co., Ltd.
Concerning Hitachi Slim-Modular VRF SideSmart

C E 🗑

**Find the products Hitachi Cooling & Heating
with the best service and conditions at your
Hitachi Distributor.**