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Information: latest as of 2022-July

2509-C-HNCQ-5

HITACHI

SET FREE Σ

VARIABLE REFRIGERANT FLOW
AIR SOURCE HEAT PUMP TYPE
HNCQ series



Cooling & Heating

Welcome

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.



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.

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Your world and Hitachi

Change in the air.

Change is one of the few constants in life.
The world around us changes continuously and as it does, so do our own comfort levels and our requirements of our buildings.

Creating harmony in the face of change has always been the driving force behind Hitachi Cooling & Heating. From maintaining a perfect indoor climate indoors as the seasons change, to developing new technology to address the needs of our changing cities, we're committed to solutions that help people adapt to changes today and in the future.



Cooling & Heating

Design for tomorrow's urban spaces.

Space in our cities is under increasing pressure and as new buildings become more space efficient, the areas allocated to cooling and heating are shrinking. We are responding to these changes with a new generation of space-efficient outdoor units, giving architects, building managers and owners greater levels of flexibility.





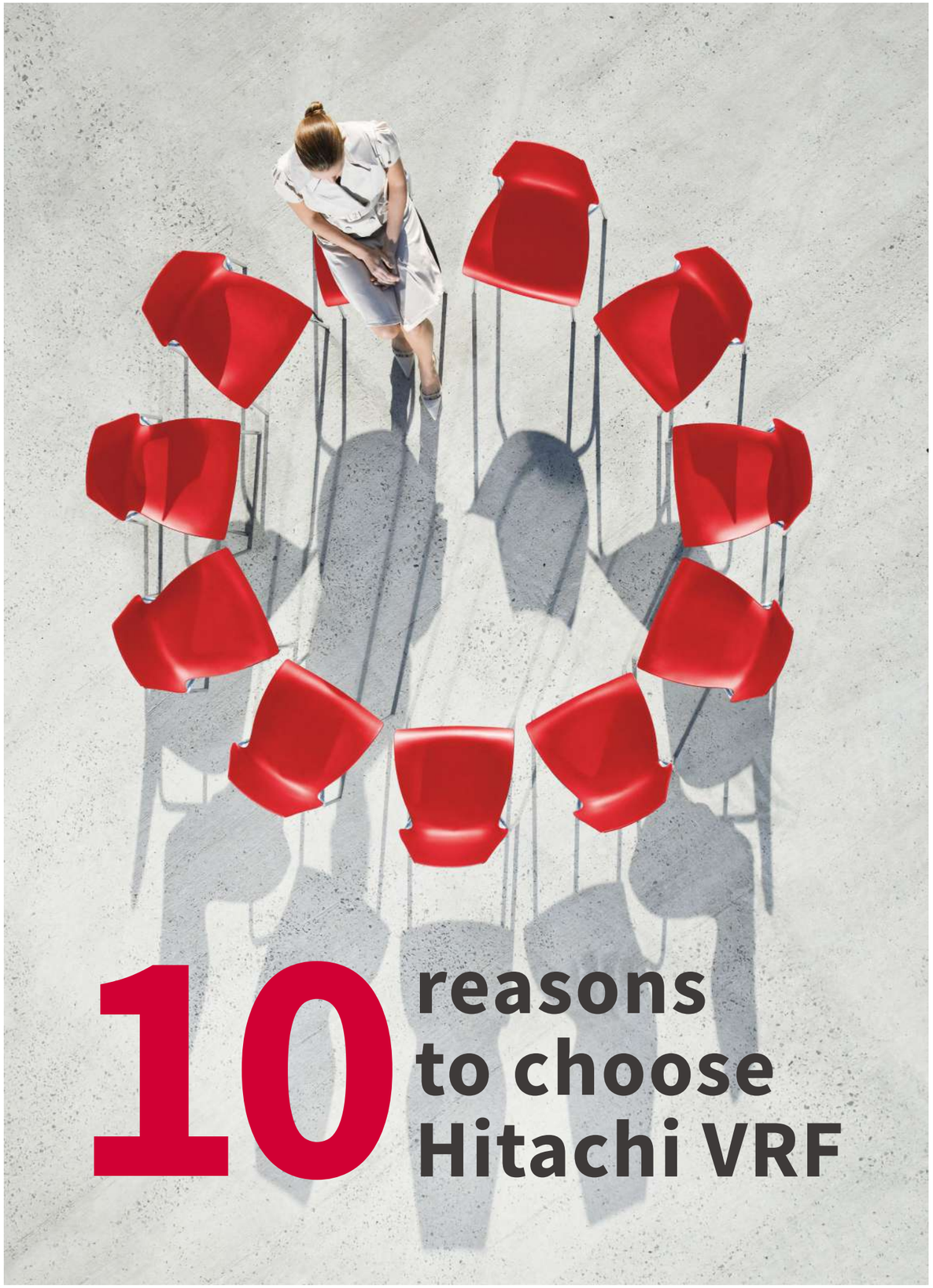
Redefining comfort.

Comfort can be felt in a variety of ways, from the temperature to quietness and even the air flow itself. Our wide-ranging lineup of indoor units can meet various comfort requirements. We offer two different types of ventilation units, and optional motion sensors are also available for superior energy saving.

You are in control.

Whether you wish to create a relaxing atmosphere in your home, improve productivity at work or manage the energy and maintenance costs for your building, We give you the technology to achieve your goals. From setting individual climate zones in every room, to centralized monitoring and reporting for multiple buildings.





10 reasons to choose Hitachi VRF

World's trusted brand

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 embeds various features to enhance the well being of occupants, based on their needs.

Welcome to our "Central Stations"

Hitachi best-in-class & appraised range of centralized controllers make 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 VRF compressor control technology SmoothDrive™ provide 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, which made Hitachi VRF receive energy-efficiency awards in Japan.

airCloud Pro, 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. airCloud Pro can accommodate unlimited number of VRF systems and unlimited number of users.

airCloud Select NEW

Let's jump in our “Selection Software”, where system engineers can perform their work of air conditioning selection customized for each project. With our training material & selection software, professionals can meet their clients' requirements with confidence.

Whichever is your project

From small shops to sky scrapper, from snowy days to hottest climates, there's a Hitachi VRF solution for you. Our offer provides great flexibility: multiple types of outdoor units and indoor units, piping distance, adaptive external static pressure, best-in-class choice of CH-Box, and variety of controllers for each type of users.

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 capability, so that operations can schedule operations 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: variety of types
- airCloud Pro: cloud-based monitoring available in smartphone app and web

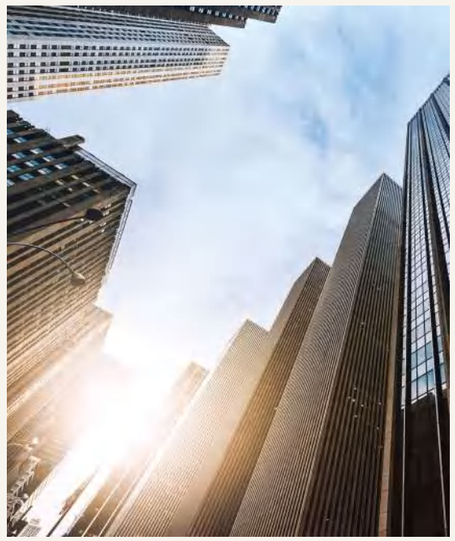
*Product availability varies across countries. Please visit www.hitachiaircon.com or contact your local Hitachi Cooling & Heating representative to receive more information.

The shape of things to come

We’ve named our latest VRF system SET FREE Σ

Continuing the evolution of the SET FREE series, the sigma symbol (Σ) references the shape of our revolutionary, ultra-efficient new heat exchanger.





Raising the standard

The path to creating your perfect indoor environment begins outdoors with Hitachi Cooling & Heating's range of outdoor units — the first step toward achieving Living Harmony.

Protected by lighter and stronger compact cabinets and powered by the world's most advanced compressor controller technology, the next generation SET FREE Σ outdoor units deliver superior performance, maximum installation flexibility and ease of maintenance.

VRF OUTDOOR UNITS

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Line-up overview

Widest Range: from 8 to 96HP class

The HNCQ Series is newly launched with a wide range of models in its lineup, as well as a variety of performance enhancements in design, power and economy. Select the product(s) most suitable for your application, either as a single unit or a combination of single units.

(HP Class/Cooling Capacity/Heating Capacity/Net Weight)



8HP Class/22.4kW/25.0kW/225kg
10HP Class/28.0kW/31.5kW/226kg
12HP Class/33.5kW/37.5kW/248kg



14HP Class/40.0kW/45.0kW/308kg
16HP Class/45.0kW/50.0kW/310kg
18HP Class/50.0kW/56.0kW/356kg

Single module up to 24HP class!



20HP Class/56.0kW/63.0kW/390kg
22HP Class/61.5kW/69.0kW/415kg
24HP Class/68.0kW/75.0kW/416kg



26HP Class/73.0kW/81.5kW/536kg
28HP Class/78.5kW/87.5kW/558kg



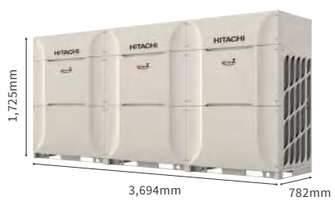
30HP Class/85.0kW/95.0kW/618kg
32HP Class/90.0kW/100.0kW/620kg
34HP Class/95.0kW/106.0kW/666kg



36HP Class/101.0kW/113.0kW/700kg
38HP Class/106.5kW/119.0kW/725kg
40HP Class/113.0kW/125.0kW/726kg
42HP Class/118.0kW/131.0kW/772kg



44HP Class/124.0kW/138.0kW/806kg
46HP Class/129.5kW/144.0kW/831kg
48HP Class/136.0kW/150.0kW/832kg



50HP Class/140.0kW/156.0kW/976kg



52HP Class/146.0kW/163.0kW/1,010kg
54HP Class/151.5kW/169.0kW/1,035kg
56HP Class/158.0kW/175.0kW/1,036kg
58HP Class/163.0kW/181.0kW/1,082kg



60HP Class/169.0kW/188.0kW/1,116kg
62HP Class/174.5kW/194.0kW/1,141kg
64HP Class/181.0kW/200.0kW/1,142kg
66HP Class/186.0kW/206.0kW/1,188kg



68HP Class/192.0kW/213.0kW/1,222kg
70HP Class/197.5kW/219.0kW/1,247kg
72HP Class/204.0kW/225.0kW/1,248kg

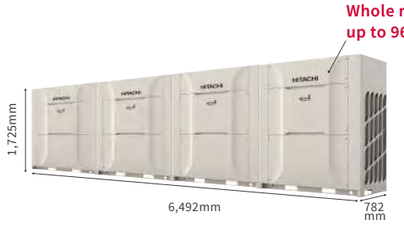


74HP Class/208.0kW/231.0kW/1,392kg

Whole range up to 96HP class!



76HP Class/214.0kW/238.0kW/1,426kg
78HP Class/219.5kW/244.0kW/1,451kg



80HP Class/224.0kW/252.0kW/1,560kg
82HP Class/229.5kW/258.0kW/1,585kg
84HP Class/236.0kW/264.0kW/1,586kg
86HP Class/241.5kW/270.0kW/1,611kg
88HP Class/248.0kW/276.0kW/1,612kg

90HP Class/253.5kW/282.0kW/1,637kg
92HP Class/260.0kW/288.0kW/1,638kg
94HP Class/265.5kW/294.0kW/1,663kg
96HP Class/272.0kW/300.0kW/1,664kg

SUMMARY TABLE

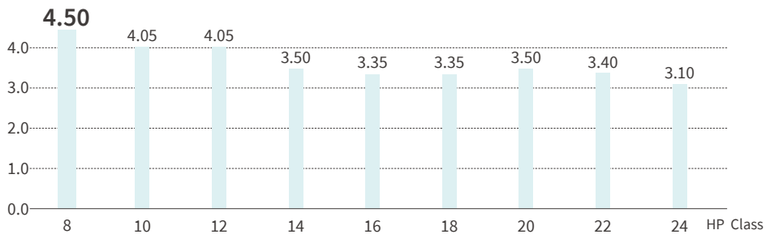
Item			Unit	HNCQ Series
Capacity	HP class			8-96
	Nominal Cooling		kW	22.4-272.0
	Nominal Heating		kW	25.0-300.0
Maximum connectable indoor unit quantity				13-64
Combination capacity ratio between ODU and IDU			%	50-130
Maximum piping length	Total piping length		m	1,000
	Refrigerant piping length	Actual	m	165
		Equivalent	m	190
	Between piping connection kit and each outdoor unit		m	10
	Between 1st branch multi kit and farthest indoor unit		m	90
	Between multi kit and each indoor unit		m	40
Maximum level difference**	Between outdoor units (combination of base units)		m	0.1
	Between outdoor unit and indoor units	ODU above IDU	m	50 (standard)/up to 110m (optional)
		IDU above ODU	m	40
	Between indoor units		m	30
Cooling operation range*			°C DB	-5.0 to 52.0
Heating operation range*			°C WB	-20.0 to 15.0

* For more details, please consult your distributors or dealer, or, refer to technical catalogue.
** Concerning maximum level difference between ODU and IDU (ODU above IDU),
Standard: up to 50 metre/Optional: up to 110 metre.
Longer piping (up to 110 metre) is available for 8 to 54HP class models only.
Maximum level difference for 56-96HP class is 90 metre.

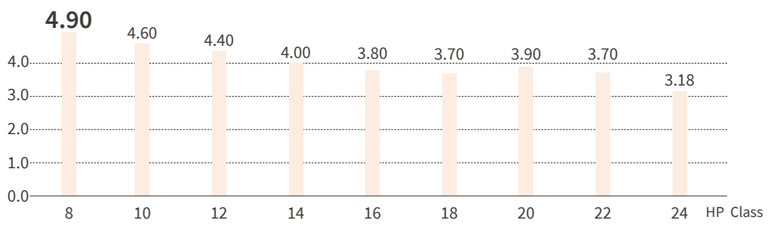
High efficiency

EFFICIENCY RATIO

EER: Energy Efficiency Ratio



COP: Coefficient Of Performance



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		Heating Operation Conditions	
Indoor Air Inlet Temperature:	27.0°C DB (80.0°F DB) 19.0°C WB (66.2°F WB)	Indoor Air Inlet Temperature:	20.0°C DB (68.0°F DB)
Outdoor Air Inlet Temperature:	35.0°C DB (95.0°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 Length: 7.5 metre	
Piping Lift: 0 metre		Piping Lift: 0 metre	

2. Please see the technical catalogues for more details.

WHAT'S IMPROVED?

1) COMPRESSOR 2) HEAT EXCHANGER 3) AIR OUTLET

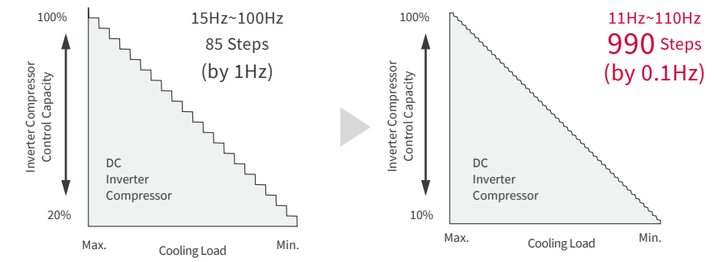


3 POINTS IMPROVEMENT

1) COMPRESSOR

Greater capacity control

The highly improved performance as well as greater energy saving is achieved by adopting newly developed high efficiency DC inverter compressor, with outstandingly precise control technology of 0.1Hz increments inverter frequency. Another feature is the dramatically extended working range, enabled by expanding the compressor's operating frequency band, both upwards and downwards.



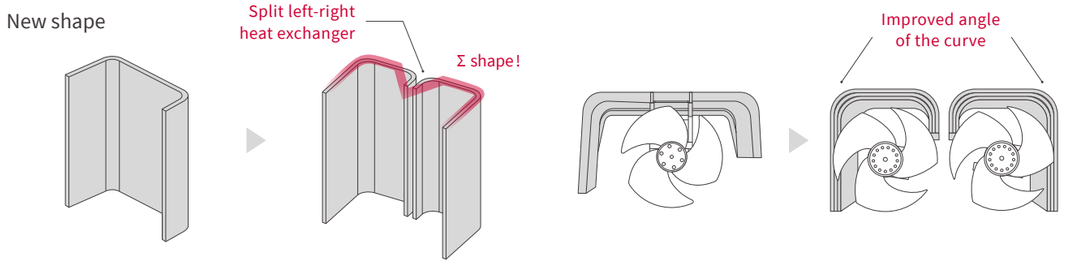
Current model* | New model*

*Example at 12HP class (33.5kW)

2) HEAT EXCHANGER

- The heat exchange area has been increased by more than 10% (single module)
- Greater heat exchange efficiency

New shape



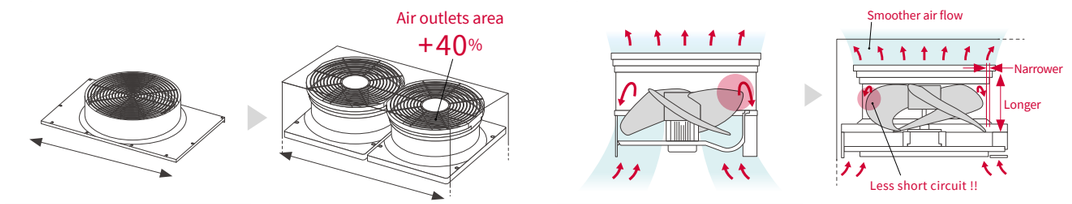
Current model (single module) | New single medium & Large cabinet | Current model (single module) | New single medium & Large cabinet

3) AIR OUTLET

- Improvement of airflow volume by 23% (single module)
- Energy consumption in the driving shaft has decreased by 20% on average

Expansion of air outlet

Improvement in air outlet



Current model | New model | Current model | New model

Design flexibility

EASY TRANSPORTATION

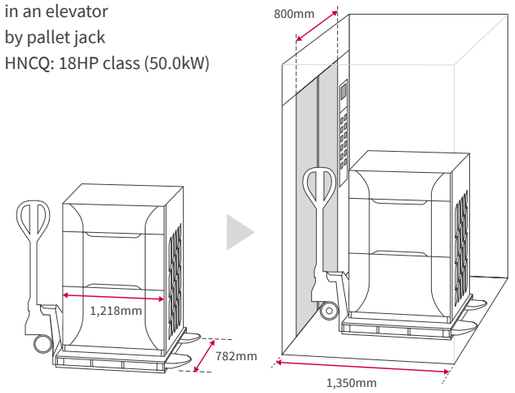
• Smaller cabinet



*Example at 24HP class (68.0kW)

24HP class (68.0kW)	Installation Space	-24.4% (1.67m² → 1.26m²)
	Product Weight	-17.8% (506kg → 416kg)

Can be transported
in an elevator
by pallet jack
HNCQ: 18HP class (50.0kW)

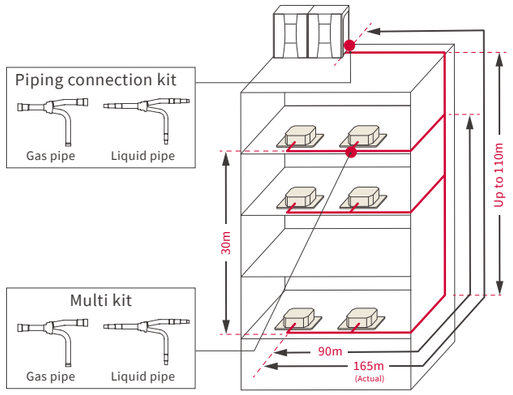


PIPING CONNECTION WORKABILITY

Improvement of restrictions on piping construction

• Suitable for a high-rise building or complex facilities.
• Leads to cost/time saving for designers, with more efficient design.

Maximum piping length	Total sum		1,000m
	Maximum length from ODU stope valve or Piping connection kit to Terminal IDU	Actual	165m
		Equivalent	190m
	Between Piping Connection Kit and Each ODU		10m
	Between 1st branch Multi Kit and the farthest IDU		90m
	Between each Multi Kit and each IDU		40m
Maximum level difference	Between ODUs		0.1m
	Between ODU and IDU	ODU above IDU	Standard: 50m Optional: 110m
		IDU above ODU	Standard: 40m
	Between IDUs		30m

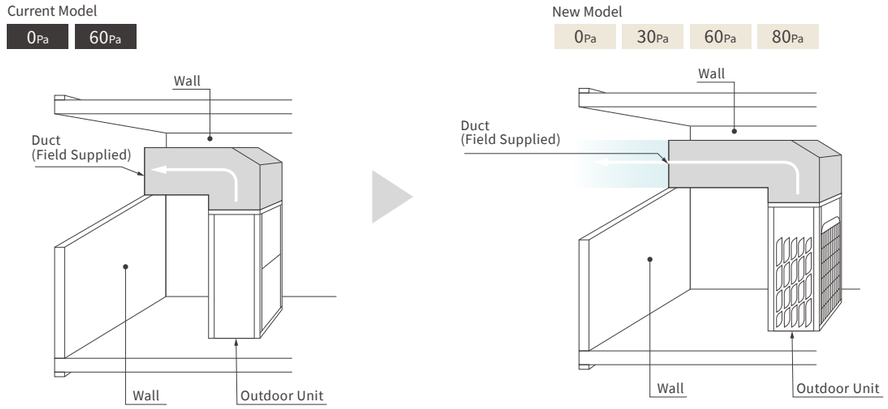




IMPROVED EXTERNAL STATIC PRESSURE

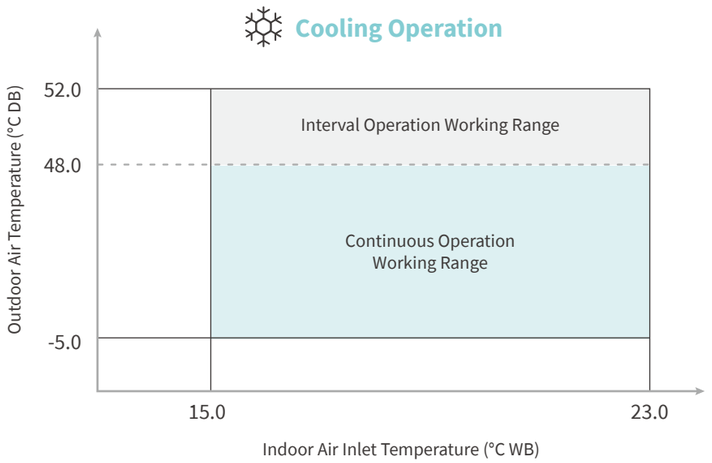
Both more numbers of setting of ESP (up to 4), and, higher ESP (up to 80Pa) of outdoor unit, offer better options for the indoor installation of the outdoor unit, which leads to 3 benefits for you.

• Less piping length
• Lower installation cost
• Visual aesthetics



OPERATION TEMPERATURE RANGE

Enhanced performance in consideration of the actual installation environment of the outdoor unit



SMOOTHDRIVE™: SUPERIOR COMPRESSOR CONTROL

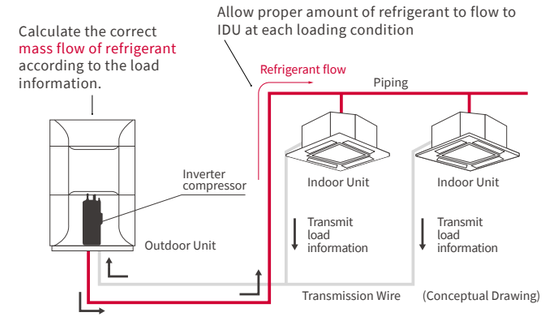
Energy savings in real life: it's more than ratings. You can uncover that we want to bring true value to your customers. Meeting high energy efficient standards in one thing, but on top of that, "SmoothDrive™" supports energy savings in real life conditions, as real life is made of fluctuations.

How does "SmoothDrive™" work?

Brushed-up existing Variable Evaporating/Condensing Temperature Control,
"SmoothDrive™" directly regulates the mass-flow of refrigerant amount, by Hitachi original load-speculation technology!

- "SmoothDrive™" helps scroll compressor running continuously and smoothly even at Low-load condition
- Our original load-speculation technology helps reduce energy loss caused by scroll compressor switching on/off
- Consequently, constant room temperature & energy saving can be achieved

Concept

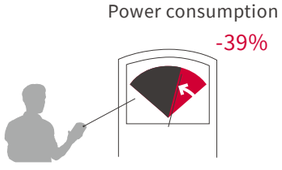


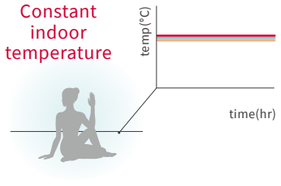
How does "SmoothDrive™" benefit you?

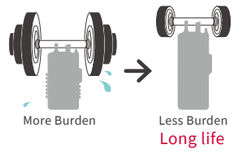
Efficiency
Power consumption is reduced by -39% in the testing condition at air conditioning load 33%.

Comfort
More constant indoor temperature achieved by better responsiveness thanks to direct compressor frequency control.

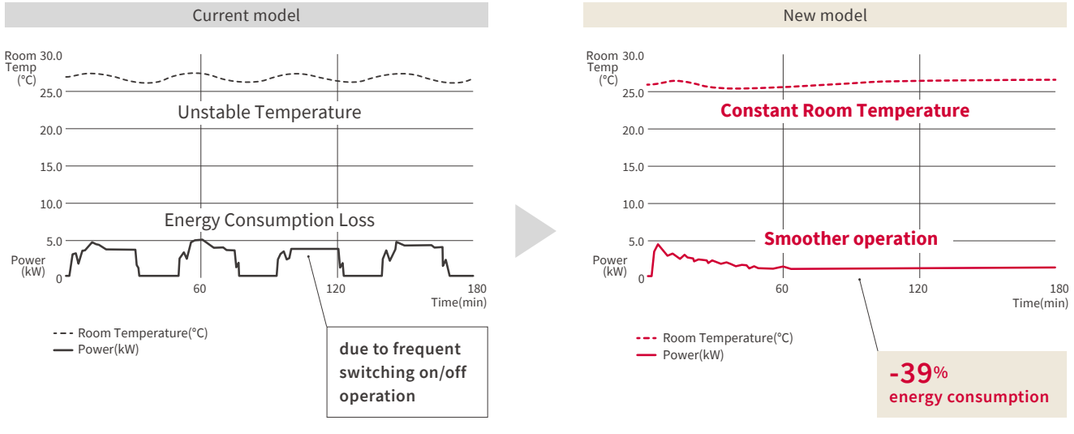
Reliability
Less burden on compressor thanks to suppressing continuous on/off at low load operation, leading to less liquid-back and less shock into the scroll compressor.







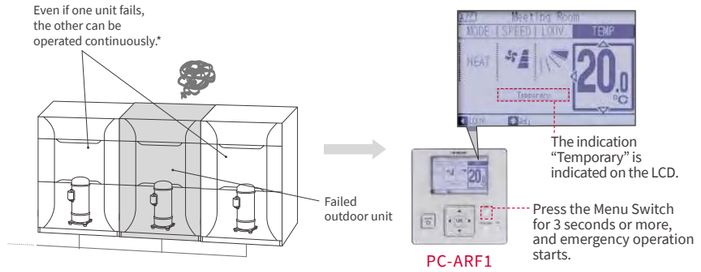
Actual example of the new compressor control



SYSTEM FAILURE PREVENTION

In case of a combination unit

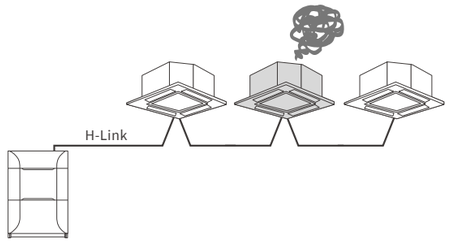
- The Backup Operation Function prevents the system from coming to a complete stop when outdoor unit failure occurs
- If one outdoor unit should fail, the system can continue to operate using the remaining outdoor units
- An alarm is triggered and emergency operation can be activated via an individual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



* Emergency operation can be performed within 8 hours after unit stoppage.
Emergency operation cannot be performed when 8 hours have elapsed since unit stoppage.

UNINTERRUPTED OPERATION

The uninterrupted operation function ensure the entire VRF system's continuous operation even under the situation one of the indoors unit is failed or powered off, thanks to outdoor advanced protection control & Our original communication system H-LINK.

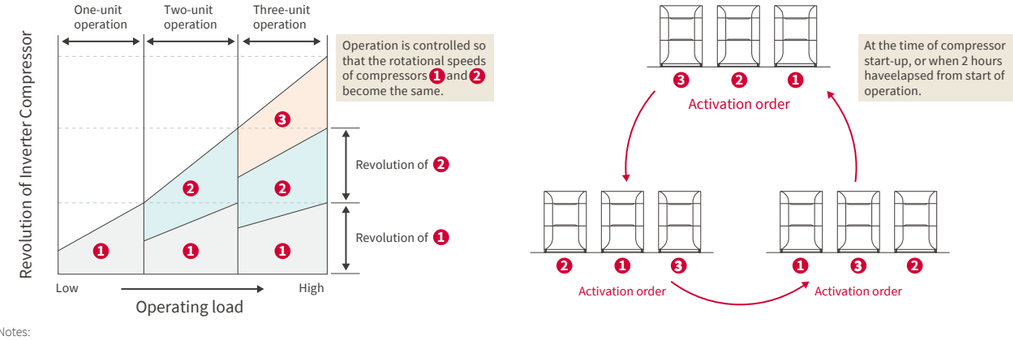


Notes:
*1 System will continue running when one indoor unit is powered off, but it may be shut down due to system protection depending on the operation conditions.
*2 Please restore the indoor unit power as soon as possible, continue to turn off indoor may significantly affect system reliability.

ROTATIONAL OPERATION*1 TO DISTRIBUTE LOAD OF OUTDOOR UNITS

Regulating the operation time of each outdoor unit 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)



Notes:
*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.

Specifications





HP class			8HP class	10HP class	12HP class	14HP class	16HP class	18HP class	20HP class	22HP class	24HP class
Model		**Unit**	**RAS-8.0HNBCMQ**	**RAS-10HNBCMQ**	**RAS-12HNBCMQ**	**RAS-14HNBCMQ**	**RAS-16HNBCMQ**	**RAS-18HNBCMQ**	**RAS-20HNBCMQ**	**RAS-22HNBCMQ**	**RAS-24HNBCMQ**
Power Supply		V/Ph/Hz	380-415/3/50			380-415/3/50			380-415/3/50		
Capacity	Cooling	kW	22.4	28.0	33.5	40.0	45.0	50.0	56.0	61.5	68.0
	Heating	kW	25.0	31.5	37.5	45.0	50.0	56.0	63.0	69.0	75.0
Power Input	Cooling	kW	4.98	6.91	8.27	11.43	13.43	14.93	16.00	18.09	21.94
	Heating	kW	5.10	6.85	8.52	11.25	13.16	15.14	16.15	18.65	23.58
Air Flow Rate	Standard	m^3/min	165	170	190	239	256	256	329	329	348
Dimension	H×W×D	mm	1,725×958×782	1,725×958×782	1,725×958×782	1,725×1,218×782	1,725×1,218×782	1,725×1,218×782	1,725×1,608×782	1,725×1,608×782	1,725×1,608×782
Weight	Net	kg	225	226	248	308	310	356	390	415	416
Footprint Area		m^2	0.75	0.75	0.75	0.95	0.95	0.95	1.26	1.26	1.26
Packaging Volume		m^3	1.62	1.62	1.62	2.03	2.03	2.03	2.67	2.67	2.67
Compressor type			Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Charge Amount	kg	5	5	7.2	8.9	9.9	10.7	11.3	11.3	12.6
Refrigerant Oil	Model		FV68H	FV68H	FV68H	FV68H	FV68H	FV68H	FV68H	FV68H	FV68H
	Charge Amount	L	6.00	6.00	6.00	6.90	6.90	7.90	8.40	8.40	8.40
Number of Fan Motors			1	1	1	2	2	2	2	2	2
Capacity Ratio of IDU/ODU			50-130%	50-130%	50-130%	50-130%	50-130%	50-130%	50-130%	50-130%	50-130%
Noise	Anechoic	dB(A)	57	58	59	60	61	61	62	63	63
	Semi-anechoic	dB(A)	60	61	62	63	64	64	65	66	66
Piping	Liquid	mm	ϕ9.52	ϕ9.52	ϕ12.70	ϕ12.70	ϕ12.70	ϕ15.88	ϕ15.88	ϕ15.88	ϕ15.88
	Gas	mm	ϕ19.05	ϕ22.20	ϕ25.40	ϕ25.40	ϕ28.58	ϕ28.58	ϕ28.58	ϕ28.58	ϕ28.58
Current	Max	A	17.0	23.0	27.0	31.5	35.5	43.5	45.0	52.0	61.5
	Breaker	A	25	32	32	40	50	50	63	63	80
	Cooling	A	8.5	11.8	14.0	18.9	22.1	25.2	26.9	30.1	36.5
	Heating	A	8.7	11.7	14.5	18.5	21.6	25.5	27.4	31.0	39.3
Efficiency	EER	W/W	4.50	4.05	4.05	3.50	3.35	3.35	3.50	3.40	3.10
	COP	W/W	4.90	4.60	4.40	4.00	3.80	3.70	3.90	3.70	3.18
The max IDU connect qty.			13	16	19	23	26	26	33	36	40
Working temp. range	Cooling		Stable work at -5.0~48.0°C DB and interval at 48.0~52.0°C DB			Stable work at -5.0~48.0°C DB and interval at 48.0~52.0°C DB			Stable work at -5.0~48.0°C DB and interval at 48.0~52.0°C DB		
	Heating		Stable work at -20.0~15.0°C WB			Stable work at -20.0~15.0°C WB			Stable work at -20.0~15.0°C WB		
Refrigerant control mode electronic expansion valve			Microcomputer-controlled electronic expansion valve			Microcomputer-controlled electronic expansion valve			Microcomputer-controlled electronic expansion valve		
Tubing connection method			Welding connection			Welding connection			Welding connection		
Maximum piping length	Total piping length	m	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
	Refrigerant piping length — Actual	m	165	165	165	165	165	165	165	165	165
	Refrigerant piping length — Equivalent	m	190	190	190	190	190	190	190	190	190
	Between "Piping connection kit" and each outdoor unit	m	10	10	10	10	10	10	10	10	10
	Between "1st branch Multi Kit" and farthest indoor unit	m	90	90	90	90	90	90	90	90	90
	Between "Multi Kit" and each indoor unit	m	40	40	40	40	40	40	40	40	40
Maximum level difference	Between outdoor units (combination of base units)	m	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Between outdoor unit and indoor units — ODU above IDU(*)	m	50 (standard) up to 110 (optional)	50 (standard) up to 110 (optional)	50 (standard) up to 110 (optional)	50 (standard) up to 110 (optional)	50 (standard) up to 110 (optional)	50 (standard) up to 110 (optional)	50 (standard) up to 110 (optional)	50 (standard) up to 110 (optional)	50 (standard) up to 110 (optional)
	Between outdoor unit and indoor units — IDU above ODU	m	40	40	40	40	40	40	40	40	40
	Between indoor units	m	30	30	30	30	30	30	30	30	30

Notes:

1. The cooling and heating performances are the values when combined with our test indoor units.
   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 is based on the following conditions.
   1 metre from the unit service cover surface, and 1.36 metre from floor level.
   The above data is based on the cooling mode. In case of heating mode, the sound pressure level increases by approximately 1~2 dB(A). The above data was measured in a semi-anechoic chamber so that reflected sound should be taken into consideration in the field.

(*) Standard: up to 50 metre/Optional: up to 110 metre.
Longer piping (up to 110 metre) is available for 8 to 54HP class models only.
Maximum level difference for 56-96HP class is 90 metre.

Specifications







HP class			26HP class	28HP class	30HP class	32HP class	34HP class	36HP class	38HP class	40HP class	42HP class
Combination of single module unit			10+16	12+16	14+16	16+16	16+18	16+20	16+22	16+24	18+24
Model		Unit	RAS-26HNBCMQ	RAS-28HNBCMQ	RAS-30HNBCMQ	RAS-32HNBCMQ	RAS-34HNBCMQ	RAS-36HNBCMQ	RAS-38HNBCMQ	RAS-40HNBCMQ	RAS-42HNBCMQ
Power Supply		V/Ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Capacity	Cooling	kW	73.0	78.5	85.0	90.0	95.0	101.0	106.5	113.0	118.0
	Heating	kW	81.5	87.5	95.0	100.0	106.0	113.0	119.0	125.0	131.0
Power Input	Cooling	kW	20.34	21.70	24.86	26.86	28.36	29.43	31.52	35.37	36.87
	Heating	kW	20.01	21.68	24.41	26.31	28.30	29.31	31.81	36.74	38.72
Air Flow Rate	Standard	m^3/min	426	446	495	512	512	585	585	604	604
Dimension	H×W×D	mm	1,725×2,196×782	1,725×2,196×782	1,725×2,456×782	1,725×2,456×782	1,725×2,456×782	1,725×2,846×782	1,725×2,846×782	1,725×2,846×782	1,725×2,846×782
Weight	Net	kg	226+310	248+310	308+310	310+310	310+356	310+390	310+415	310+416	356+416
Footprint Area		m^2	0.75+0.95	0.75+0.95	0.95+0.95	0.95+0.95	0.95+0.95	0.95+1.26	0.95+1.26	0.95+1.26	0.95+1.26
Packaging Volume		m^3	1.62+2.03	1.62+2.03	2.03+2.03	2.03+2.03	2.03+2.03	2.03+2.67	2.03+2.67	2.03+2.67	2.03+2.67
Compressor type			Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Charge Amount	kg	14.9	17.1	18.8	19.8	20.6	21.2	21.2	22.5	23.3
Refrigerant Oil	Model		FV68H	FV68H	FV68H	FV68H	FV68H	FV68H	FV68H	FV68H	FV68H
	Charge Amount	L	12.90	12.90	13.80	13.80	14.80	15.30	15.30	15.30	16.30
Number of Fan Motors			3	3	4	4	4	4	4	4	4
Capacity Ratio of IDU/ODU			50-130%	50-130%	50-130%	50-130%	50-130%	50-130%	50-130%	50-130%	50-130%
Noise	Anechoic	dB(A)	63	63	64	64	64	65	65	65	65
	Semi-anechoic	dB(A)	66	66	67	67	67	68	68	68	68
Piping	Liquid	mm	ϕ19.05	ϕ19.05	ϕ19.05	ϕ19.05	ϕ19.05	ϕ19.05	ϕ19.05	ϕ19.05	ϕ19.05
	Gas	mm	ϕ31.75	ϕ31.75	ϕ31.75	ϕ31.75	ϕ31.75	ϕ38.10	ϕ38.10	ϕ38.10	ϕ38.10
Current	Max	A	23+35.5	27+35.5	31.5+35.5	35.5+35.5	35.5+43.5	35.5+45	35.5+52	35.5+61.5	43.5+61.5
	Breaker	A	32+50	32+50	40+50	50+50	50+50	50+63	50+63	50+80	50+80
	Cooling	A	11.8+22.1	14+22.1	18.9+22.1	22.1+22.1	22.1+25.2	22.1+26.9	22.1+30.1	22.1+36.5	25.2+36.5
	Heating	A	11.7+21.6	14.5+21.6	18.5+21.6	21.6+21.6	21.6+25.5	21.6+27.4	21.6+31	21.6+39.3	25.5+39.3
Efficiency	EER	W/W	3.59	3.62	3.42	3.35	3.35	3.43	3.38	3.19	3.20
	COP	W/W	4.07	4.04	3.89	3.80	3.75	3.86	3.74	3.40	3.38
The max IDU connect qty.			43	47	50	53	56	59	64	64	64
Working temp. range	Cooling		Stable work at -5.0~48.0°C DB and interval at 48.0~52.0°C DB			Stable work at -5.0~48.0°C DB and interval at 48.0~52.0°C DB			Stable work at -5.0~48.0°C DB and interval at 48.0~52.0°C DB		
	Heating		Stable work at -20.0~15.0°C WB			Stable work at -20.0~15.0°C WB			Stable work at -20.0~15.0°C WB		
Refrigerant control mode electronic expansion valve			Microcomputer-controlled electronic expansion valve			Microcomputer-controlled electronic expansion valve			Microcomputer-controlled electronic expansion valve		
Tubing connection method			Welding connection			Welding connection			Welding connection		
Maximum piping length	Total piping length	m	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
	Refrigerant piping length — Actual	m	165	165	165	165	165	165	165	165	165
	Refrigerant piping length — Equivalent	m	190	190	190	190	190	190	190	190	190
	Between "Piping connection kit" and each outdoor unit	m	10	10	10	10	10	10	10	10	10
	Between "1st branch Multi Kit" and farthest indoor unit	m	90	90	90	90	90	90	90	90	90
	Between "Multi Kit" and each indoor unit	m	40	40	40	40	40	40	40	40	40
Maximum level difference	Between outdoor units (combination of base units)	m	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Between outdoor unit and indoor units — ODU above IDU(*)	m	50 (standard) up to 110 (optional)	50 (standard) up to 110 (optional)	50 (standard) up to 110 (optional)	50 (standard) up to 110 (optional)	50 (standard) up to 110 (optional)	50 (standard) up to 110 (optional)	50 (standard) up to 110 (optional)	50 (standard) up to 110 (optional)	50 (standard) up to 110 (optional)
	Between outdoor unit and indoor units — IDU above ODU	m	40	40	40	40	40	40	40	40	40
	Between indoor units	m	30	30	30	30	30	30	30	30	30

Notes:

1. The cooling and heating performances are the values when combined with our test indoor units.
   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 is based on the following conditions.
   1 metre from the unit service cover surface, and 1.36 metre from floor level.
   The above data is based on the cooling mode. In case of heating mode, the sound pressure level increases by approximately 1~2 dB(A). The above data was measured in a semi-anechoic chamber so that reflected sound should be taken into consideration in the field.

(*) Standard: up to 50 metre/Optional: up to 110 metre.
Longer piping (up to 110 metre) is available for 8 to 54HP class models only.
Maximum level difference for 56-96HP class is 90 metre.

Specifications






HP class			44HP class	46HP class	48HP class	50HP class	52HP class	54HP class	56HP class	58HP class	60HP class
Combination of single module unit			20+24	22+24	24+24	16+16+18	16+16+20	16+16+22	16+16+24	16+18+24	16+20+24
Model		Unit	RAS-44HNBCMQ	RAS-46HNBCMQ	RAS-48HNBCMQ	RAS-50HNBCMQ	RAS-52HNBCMQ	RAS-54HNBCMQ	RAS-56HNBCMQ	RAS-58HNBCMQ	RAS-60HNBCMQ
Power Supply		V/Ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Capacity	Cooling	kW	124.0	129.5	136.0	140.0	146.0	151.5	158.0	163.0	169.0
	Heating	kW	138.0	144.0	150.0	156.0	163.0	169.0	175.0	181.0	188.0
Power Input	Cooling	kW	37.94	40.03	43.88	41.79	42.86	44.95	48.80	50.30	51.37
	Heating	kW	39.73	42.23	47.16	41.46	42.47	44.97	49.90	51.88	52.89
Air Flow Rate	Standard	m^3/min	677	677	696	768	841	841	860	860	933
Dimension	H×W×D	mm	1,725×3,236×782	1,725×3,236×782	1,725×3,236×782	1,725×3,694×782	1,725×4,084×782	1,725×4,084×782	1,725×4,084×782	1,725×4,084×782	1,725×4,474×782
Weight	Net	kg	390+416	415+416	416+416	310+310+356	310+310+390	310+310+415	310+310+416	310+356+416	310+390+416
Footprint Area		m^2	1.26+1.26	1.26+1.26	1.26+1.26	0.95×3	0.95+0.95+1.26	0.95+0.95+1.26	0.95+0.95+1.26	0.95+0.95+1.26	0.95+1.26+1.26
Packaging Volume		m^3	2.67+2.67	2.67+2.67	2.67+2.67	2.03+2.03+2.03	2.03+2.03+2.67	2.03+2.03+2.67	2.03+2.03+2.67	2.03+2.03+2.67	2.03+2.67+2.67
Compressor type			Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Charge Amount	kg	23.9	23.9	25.2	30.5	31.1	31.1	32.4	33.2	33.8
Refrigerant Oil	Model		FV68H	FV68H	FV68H	FV68H	FV68H	FV68H	FV68H	FV68H	FV68H
	Charge Amount	L	16.80	16.80	16.80	21.70	22.20	22.20	22.20	23.20	23.70
Number of Fan Motors			4	4	4	6	6	6	6	6	6
Capacity Ratio of IDU/ODU			50-130%	50-130%	50-130%	50-130%	50-130%	50-130%	50-130%	50-130%	50-130%
Noise	Anechoic	dB(A)	66	66	66	66	66	67	67	67	67
	Semi-anechoic	dB(A)	69	69	69	69	69	70	70	70	70
Piping	Liquid	mm	ϕ19.05	ϕ19.05	ϕ19.05	ϕ19.05	ϕ19.05	ϕ19.05	ϕ19.05	ϕ19.05	ϕ19.05
	Gas	mm	ϕ38.10	ϕ38.10	ϕ38.10	ϕ38.10	ϕ38.10	ϕ38.10	ϕ44.45	ϕ44.45	ϕ44.45
Current	Max	A	45+61.5	52+61.5	61.5+61.5	35.5+35.5+43.5	35.5+35.5+45	35.5+35.5+52	35.5+35.5+61.5	35.5+43.5+61.5	35.5+45+61.5
	Breaker	A	63+80	63+80	80+80	50+50+50	50+50+63	50+50+63	50+50+80	50+50+80	50+63+80
	Cooling	A	26.9+36.5	30.1+36.5	36.5+36.5	22.1+22.1+25.2	22.1+22.1+26.9	22.1+22.1+30.1	22.1+22.1+36.5	22.1+25.2+36.5	22.1+26.9+36.5
	Heating	A	27.4+39.3	31+39.3	39.3+39.3	21.6+21.6+25.5	21.6+21.6+27.4	21.6+21.6+31	21.6+21.6+39.3	21.6+25.5+39.3	21.6+27.4+39.3
Efficiency	EER	W/W	3.27	3.24	3.10	3.35	3.41	3.37	3.24	3.24	3.29
	COP	W/W	3.47	3.41	3.18	3.76	3.84	3.76	3.51	3.49	3.55
The max IDU connect qty.			64	64	64	64	64	64	64	64	64
Working temp. range	Cooling		Stable work at -5.0~48.0°C DB and interval at 48.0~52.0°C DB			Stable work at -5.0~48.0°C DB and interval at 48.0~52.0°C DB			Stable work at -5.0~48.0°C DB and interval at 48.0~52.0°C DB		
	Heating		Stable work at -20.0~15.0°C WB			Stable work at -20.0~15.0°C WB			Stable work at -20.0~15.0°C WB		
Refrigerant control mode electronic expansion valve			Microcomputer-controlled electronic expansion valve			Microcomputer-controlled electronic expansion valve			Microcomputer-controlled electronic expansion valve		
Tubing connection method			Welding connection			Welding connection			Welding connection		
Maximum piping length	Total piping length	m	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
	Refrigerant piping length — Actual	m	165	165	165	165	165	165	165	165	165
	Refrigerant piping length — Equivalent	m	190	190	190	190	190	190	190	190	190
	Between "Piping connection kit" and each outdoor unit	m	10	10	10	10	10	10	10	10	10
	Between "1st branch Multi Kit" and farthest indoor unit	m	90	90	90	90	90	90	90	90	90
	Between "Multi Kit" and each indoor unit	m	40	40	40	40	40	40	40	40	40
Maximum level difference	Between outdoor units (combination of base units)	m	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Between outdoor unit and indoor units — ODU above IDU(*)	m	50 (standard) up to 110 (optional)	50 (standard) up to 110 (optional)	50 (standard) up to 110 (optional)	50 (standard) up to 110 (optional)	50 (standard) up to 110 (optional)	50 (standard) up to 110 (optional)	50 (standard) up to 90 (optional)	50 (standard) up to 90 (optional)	50 (standard) up to 90 (optional)
	Between outdoor unit and indoor units — IDU above ODU	m	40	40	40	40	40	40	40	40	40
	Between indoor units	m	30	30	30	30	30	30	30	30	30

Notes:

1. The cooling and heating performances are the values when combined with our test indoor units.
   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 is based on the following conditions.
   1 metre from the unit service cover surface, and 1.36 metre from floor level.
   The above data is based on the cooling mode. In case of heating mode, the sound pressure level increases by approximately 1~2 dB(A). The above data was measured in a semi-anechoic chamber so that reflected sound should be taken in the field.

(*) Standard: up to 50 metre/Optional: up to 110 metre.
Longer piping (up to 110 metre) is available for 8 to 54HP class models only.
Maximum level difference for 56-96HP class is 90 metre.

Specifications






HP class			62HP class	64HP class	66HP class	68HP class	70HP class	72HP class	74HP class	76HP class	78HP class
Combination of single module unit			16+22+24	16+24+24	18+24+24	20+24+24	22+24+24	24+24+24	16+16+18+24	16+16+20+24	16+16+22+24
Model		Unit	RAS-62HNBCMQ	RAS-64HNBCMQ	RAS-66HNBCMQ	RAS-68HNBCMQ	RAS-70HNBCMQ	RAS-72HNBCMQ	RAS-74HNBCMQ	RAS-76HNBCMQ	RAS-78HNBCMQ
Power Supply		V/Ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Capacity	Cooling	kW	174.5	181.0	186.0	192.0	197.5	204.0	208.0	214.0	219.5
	Heating	kW	194.0	200.0	206.0	213.0	219.0	225.0	231.0	238.0	244.0
Power Input	Cooling	kW	53.46	57.31	58.81	59.88	61.97	65.82	63.73	64.80	66.89
	Heating	kW	55.39	60.32	62.30	63.31	65.81	70.74	65.04	66.05	68.55
Air Flow Rate	Standard	m^3/min	933	952	952	1,025	1,025	1,044	1,116	1,189	1,189
Dimension	H×W×D	mm	1,725×4,474×782	1,725×4,474×782	1,725×4,474×782	1,725×4,864×782	1,725×4,864×782	1,725×4,864×782	1,725×5,322×782	1,725×5,712×782	1,725×5,712×782
Weight	Net	kg	310+415+416	310+416+416	356+416+416	390+416+416	415+416+416	416+416+416	310+310+356+416	310+310+390+416	310+310+415+416
Footprint Area		m^2	0.95+1.26+1.26	0.95+1.26+1.26	0.95+1.26+1.26	1.26+1.26+1.26	1.26+1.26+1.26	1.26+1.26+1.26	0.95+0.95+0.95+1.26	0.95+0.95+1.26+1.26	0.95+0.95+1.26+1.26
Packaging Volume		m^3	2.03+2.67+2.67	2.03+2.67+2.67	2.03+2.67+2.67	2.67+2.67+2.67	2.67+2.67+2.67	2.67+2.67+2.67	2.03+2.03+2.03+2.67	2.03+2.03+2.67+2.67	2.03+2.03+2.67+2.67
Compressor type			Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Charge Amount	kg	33.8	35.1	35.9	36.5	36.5	37.8	43.1	43.7	43.7
Refrigerant Oil	Model		FV68H	FV68H	FV68H	FV68H	FV68H	FV68H	FV68H	FV68H	FV68H
	Charge Amount	L	23.70	23.70	24.70	25.20	25.20	25.20	30.10	30.60	30.60
Number of Fan Motors			6	6	6	6	6	6	8	8	8
Capacity Ratio of IDU/ODU			50-130%	50-130%	50-130%	50-130%	50-130%	50-130%	50-130%	50-130%	50-130%
Noise	Anechoic	dB(A)	67	67	67	67	68	68	68	68	68
	Semi-anechoic	dB(A)	70	70	70	70	71	71	71	71	71
Piping	Liquid	mm	ϕ19.05	ϕ19.05	ϕ19.05	ϕ22.20	ϕ22.20	ϕ22.20	ϕ22.20	ϕ22.20	ϕ22.20
	Gas	mm	ϕ44.45	ϕ44.45	ϕ44.45	ϕ44.45	ϕ44.45	ϕ44.45	ϕ50.80	ϕ50.80	ϕ50.80
Current	Max	A	35.5+52+61.5	35.5+61.5+61.5	43.5+61.5+61.5	45+61.5+61.5	52+61.5+61.5	61.5×3	35.5+35.5+43.5+61.5	35.5+35.5+45+61.5	35.5+35.5+52+61.5
	Breaker	A	50+63+80	50+80+80	50+80+80	63+80+80	63+80+80	80×3	50+50+50+80	50+50+63+80	50+50+63+80
	Cooling	A	22.1+30.1+36.5	22.1+36.5+36.5	25.2+36.5+36.5	26.9+36.5+36.5	30.1+36.5+36.5	36.5×3	22.1+22.1+25.2+36.5	22.1+22.1+26.9+36.5	22.1+22.1+30.1+36.5
	Heating	A	21.6+31+39.3	21.6+39.3+39.3	25.5+39.3+39.3	27.4+39.3+39.3	31+39.3+39.3	39.3×3	21.6+21.6+25.5+39.3	21.6+21.6+27.4+39.3	21.6+21.6+31+39.3
Efficiency	EER	W/W	3.26	3.16	3.16	3.21	3.19	3.10	3.26	3.30	3.28
	COP	W/W	3.50	3.32	3.31	3.36	3.33	3.18	3.55	3.60	3.56
The max IDU connect qty.			64	64	64	64	64	64	64	64	64
Working temp. range	Cooling		Stable work at -5.0~48.0°C DB and interval at 48.0~52.0°C DB			Stable work at -5.0~48.0°C DB and interval at 48.0~52.0°C DB			Stable work at -5.0~48.0°C DB and interval at 48.0~52.0°C DB		
	Heating		Stable work at -20.0~15.0°C WB			Stable work at -20.0~15.0°C WB			Stable work at -20.0~15.0°C WB		
Refrigerant control mode electronic expansion valve			Microcomputer-controlled electronic expansion valve			Microcomputer-controlled electronic expansion valve			Microcomputer-controlled electronic expansion valve		
Tubing connection method			Welding connection			Welding connection			Welding connection		
Maximum piping length	Total piping length	m	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
	Refrigerant piping length (Actual)	m	165	165	165	165	165	165	165	165	165
	Refrigerant piping length (Equivalent)	m	190	190	190	190	190	190	190	190	190
	Between "Piping connection kit" and each outdoor unit	m	10	10	10	10	10	10	10	10	10
	Between "1st branch Multi Kit" and farthest indoor unit	m	90	90	90	90	90	90	90	90	90
	Between "Multi Kit" and each indoor unit	m	40	40	40	40	40	40	40	40	40
Maximum level difference	Between outdoor units (combination of base units)	m	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Between outdoor unit and indoor units (ODU above IDU(*))	m	50 (standard) up to 90 (optional)	50 (standard) up to 90 (optional)	50 (standard) up to 90 (optional)	50 (standard) up to 90 (optional)	50 (standard) up to 90 (optional)	50 (standard) up to 90 (optional)	50 (standard) up to 90 (optional)	50 (standard) up to 90 (optional)	50 (standard) up to 90 (optional)
	Between outdoor unit and indoor units (IDU above ODU)	m	40	40	40	40	40	40	40	40	40
	Between indoor units	m	30	30	30	30	30	30	30	30	30

Notes:

1. The cooling and heating performances are the values when combined with our test indoor units.
   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 is based on the following conditions.
   1 metre from the unit service cover surface, and 1.36 metre from floor level.
   The above data is based on the cooling mode. In case of heating mode, the sound pressure level increases by approximately 1~2 dB(A). The above data was measured in a semi-anechoic chamber so that reflected sound should be taken into consideration in the field.

(*) Standard: up to 50 metre/Optional: up to 110 metre.
Longer piping (up to 110 metre) is available for 8 to 54HP class models only.
Maximum level difference for 56-96HP class is 90 metre.

Specifications



HP class			80HP class	82HP class	84HP class	86HP class	88HP class	90HP class	92HP class	94HP class	96HP class
Combination of single module unit			20×4	20×3+22	20×3+24	20+20+22+24	20+20+24+24	20+22+24+24	20+24×3	22+24×3	24×4
Model		Unit	RAS-80HNBCMQ	RAS-82HNBCMQ	RAS-84HNBCMQ	RAS-86HNBCMQ	RAS-88HNBCMQ	RAS-90HNBCMQ	RAS-92HNBCMQ	RAS-94HNBCMQ	RAS-96HNBCMQ
Power Supply		V/Ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Capacity	Cooling	kW	224.0	229.5	236.0	241.5	248.0	253.5	260.0	265.5	272.0
	Heating	kW	252.0	258.0	264.0	270.0	276.0	282.0	288.0	294.0	300.0
Power Input	Cooling	kW	64.00	66.09	69.94	72.03	75.88	77.97	81.82	83.91	87.76
	Heating	kW	64.60	67.10	72.03	74.53	79.46	81.96	86.89	89.39	94.32
Air Flow Rate	Standard	m^3/min	1,316	1,316	1,335	1,335	1,354	1,354	1,373	1,373	1,392
Dimension	H×W×D	mm	1,725×6,492×782	1,725×6,492×782	1,725×6,492×782	1,725×6,492×782	1,725×6,492×782	1,725×6,492×782	1,725×6,492×782	1,725×6,492×782	1,725×6,492×782
Weight	Net	kg	390+390+390+390	390+390+390+415	390+390+390+416	390+390+415+416	390+390+416+416	390+415+416+416	390+416+416+416	415+416+416+416	416+416+416+416
Footprint Area		m^2	1.26+1.26+1.26+1.26	1.26+1.26+1.26+1.26	1.26+1.26+1.26+1.26	1.26+1.26+1.26+1.26	1.26+1.26+1.26+1.26	1.26+1.26+1.26+1.26	1.26+1.26+1.26+1.26	1.26+1.26+1.26+1.26	1.26+1.26+1.26+1.26
Packaging Volume		m^3	2.67+2.67+2.67+2.67	2.67+2.67+2.67+2.67	2.67+2.67+2.67+2.67	2.67+2.67+2.67+2.67	2.67+2.67+2.67+2.67	2.67+2.67+2.67+2.67	2.67+2.67+2.67+2.67	2.67+2.67+2.67+2.67	2.67+2.67+2.67+2.67
Compressor type			Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Charge Amount	kg	45.2	45.2	46.5	46.5	47.8	47.8	49.1	49.1	50.4
Refrigerant Oil	Model		FV68H	FV68H	FV68H	FV68H	FV68H	FV68H	FV68H	FV68H	FV68H
	Charge Amount	L	33.60	33.60	33.60	33.60	33.60	33.60	33.60	33.60	33.60
Number of Fan Motors			8	8	8	8	8	8	8	8	8
Capacity Ratio of IDU/ODU			50-130%	50-130%	50-130%	50-130%	50-130%	50-130%	50-130%	50-130%	50-130%
Noise	Anechoic	dB(A)	68	68	68	69	69	69	69	69	69
	Semi-anechoic	dB(A)	71	71	71	72	72	72	72	72	72
Piping	Liquid	mm	ϕ22.20	ϕ22.20	ϕ22.20	ϕ22.20	ϕ22.20	ϕ25.40	ϕ25.40	ϕ25.40	ϕ25.40
	Gas	mm	ϕ50.80	ϕ50.80	ϕ50.80	ϕ50.80	ϕ50.80	ϕ50.80	ϕ50.80	ϕ50.80	ϕ50.80
Current	Max	A	45×4	45×3+52	45×3+61.5	45×2+52+61.5	45+45+61.5+61.5	45+52+61.5+61.5	45+61.5×3	52+61.5×3	61.5×4
	Breaker	A	63×4	63×3+63	63×3+80	63×2+63+80	63+63+80+80	63+63+80+80	63+80×3	63+80×3	80×4
	Cooling	A	26.9×4	26.9×3+30.1	26.9×3+36.5	26.9×2+30.1+36.5	26.9+26.9+36.5+36.5	26.9+30.1+36.5+36.5	26.9+36.5×3	30.1+36.5×3	36.5×4
	Heating	A	27.4×4	27.4×3+31	27.4×3+39.3	27.4×2+31+39.3	27.4+27.4+39.3+39.3	27.4+31+39.3+39.3	27.4+39.3×3	31+39.3×3	39.3×4
Efficiency	EER	W/W	3.50	3.47	3.37	3.35	3.27	3.25	3.18	3.16	3.10
	COP	W/W	3.90	3.85	3.67	3.62	3.47	3.44	3.31	3.29	3.18
The max IDU connect qty.			64	64	64	64	64	64	64	64	64
Working temp. range	Cooling		Stable work at -5.0~48.0°C DB and interval at 48.0~52.0°C DB			Stable work at -5.0~48.0°C DB and interval at 48.0~52.0°C DB			Stable work at -5.0~48.0°C DB and interval at 48.0~52.0°C DB		
	Heating		Stable work at -20.0~15.0°C WB			Stable work at -20.0~15.0°C WB			Stable work at -20.0~15.0°C WB		
Refrigerant control mode electronic expansion valve			Microcomputer-controlled electronic expansion valve			Microcomputer-controlled electronic expansion valve			Microcomputer-controlled electronic expansion valve		
Tubing connection method			Welding connection			Welding connection			Welding connection		
Maximum piping length	Total piping length	m	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
	Refrigerant piping length (Actual)	m	165	165	165	165	165	165	165	165	165
	Refrigerant piping length (Equivalent)	m	190	190	190	190	190	190	190	190	190
	Between "Piping connection kit" and each outdoor unit	m	10	10	10	10	10	10	10	10	10
	Between "1st branch Multi Kit" and farthest indoor unit	m	90	90	90	90	90	90	90	90	90
	Between "Multi Kit" and each indoor unit	m	40	40	40	40	40	40	40	40	40
Maximum level difference	Between outdoor units (combination of base units)	m	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Between outdoor unit and indoor units (ODU above IDU(*))	m	50 (standard) up to 90 (optional)	50 (standard) up to 90 (optional)	50 (standard) up to 90 (optional)	50 (standard) up to 90 (optional)	50 (standard) up to 90 (optional)	50 (standard) up to 90 (optional)	50 (standard) up to 90 (optional)	50 (standard) up to 90 (optional)	50 (standard) up to 90 (optional)
	Between outdoor unit and indoor units (IDU above ODU)	m	40	40	40	40	40	40	40	40	40
	Between indoor units	m	30	30	30	30	30	30	30	30	30

Notes:

1. The cooling and heating performances are the values when combined with our test indoor units.
   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 is based on the following conditions.
   1 metre from the unit service cover surface, and 1.36 metre from floor level.
   The above data is based on the cooling mode. In case of heating mode, the sound pressure level increases by approximately 1~2 dB(A). The above data was measured in a semi-anechoic chamber so that reflected sound should be taken in consideration in the field.

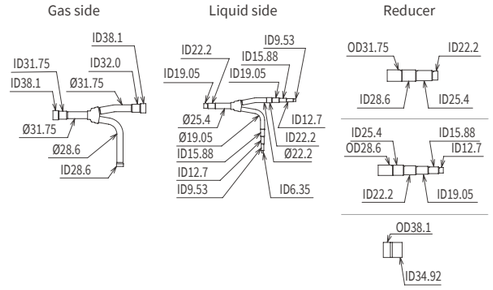
(*) Standard: up to 50 metre/Optional: up to 110 metre.
Longer piping (up to 110 metre) is available for 8 to 54HP class models only.
Maximum level difference for 56-96HP class is 90 metre.

Optional parts

PIPING CONNECTION KIT

Model	Outdoor unit capacity	Number of modules of 1 outdoor unit
M-30SNQ	26-34HP class	2
M-46SNQ	36-48HP class	2
M-46SNQ+M-30SNQ	50-54HP class	3
M-68SNQ+M-30SNQ	56-72HP class	3
M-68SNQ+M-30SNQ+M-30SNQ	74-96HP class	4

Example: M-30SNQ



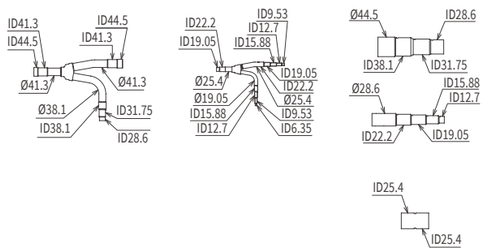
MULTI-KIT

1) 1st branch Multi-kit

Main Piping < 100m	
Model	Outdoor unit capacity
E-102SN	8-10HP class
E-162SN	12-16HP class
E-242SN	18-24HP class
E-302SN	26-54HP class
E-462SN	56-72HP class
E-682SN	74-96HP class

Main Piping ≥ 100m	
Model	Outdoor unit capacity
E-162SN	8-10HP class
E-242SN	12-14HP class
E-302SN	16-24HP class
E-462SN	26-54HP class
E-682SN	56-96HP class

Example: E-462SN



2) Multi-kit after 1st branch and pipe diameter

Model	Q= Total indoor unit capacity (kW)	Diameter (mm)	
		Gas Pipe	Liquid Pipe
E-102SN	Q ≤ 15.9	15.88	9.52
	16 ≤ Q < 25	19.05	9.52
	25 ≤ Q < 33.5	22.2	9.52
E-162SN	33.5 ≤ Q < 45	25.4	12.7
	45 ≤ Q < 50	28.58	12.7
E-242SN	50 ≤ Q < 72.9	28.58	15.88
E-302SN	72.9 ≤ Q < 100.8	31.75	19.05
	100.8 ≤ Q < 156.8	38.1	19.05
E-462SN	156.8 ≤ Q < 190.4	44.45	19.05
	190.4 ≤ Q < 207.2	44.45	22.2
E-682SN	207.2 ≤ Q < 252	50.8	22.2
	252 ≤ Q < 274.4	50.8	25.4
	274.4 ≤ Q < 349.5	50.8	28.58





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.

INDOOR UNITS

34 Line-up summary

35 Our key indoor features

43 Indoor Air Quality

47 Solutions

47 Ducted units

48 High ESP [RPIH-HNAUN1Q, RPI-FSNQ] (AC)
High ESP [RPIH-HNDUSQ] (DC)
49 Medium ESP [RPIM-HNAUN1Q, RPI-FSN3Q] (AC)
Low ESP [RPIL-HNAUN1Q] (AC)
50 Compact [RPIZ-HNATN1Q] (AC)
Compact [RPIZ-HNDTS1Q] (DC)

51 Ceiling cassettes

53 Silent-Iconic™ (4-way cassette design panel)
55 4-way cassette [RCI-FSRP, RCI-FSKDN1Q] (DC)
56 compact cassette [RCIM-FSRE, RCIM-HBUSQ] (DC)
58 2-way cassette [RCD-FSR] (DC)
59 1-way cassette [RCS-FSR, RCIS-FSKDNQ] (DC)

60 Other indoor units

61 Wall mounted [RPK-FSRM] (DC)
62 Wall mounted [RPK-HNBUSQ] (DC)
63 Floor/Ceiling convertible [RPFC-FSNQ] (AC)
64 Ceiling suspended [RPC-FSR] (DC)
65 Floor concealed [RPFI-FSNQ] (AC)

66 Specifications & accessories

Line-up summary

Over 18 types available!

DUCTED | The ultimate invisibility.

HIGH ESP (AC)
RPIH-HNAUN1Q, RPI-FSNQ



HIGH ESP (DC) NEW
RPIH-HNDUSQ



MEDIUM ESP (AC)
RPIM-HNAUN1Q, RPI-FSN3Q



LOW ESP (AC)
RPIL-HNAUN1Q



COMPACT (AC)
RPIZ-HNATN1Q



COMPACT (DC)
RPIZ-HNDTS1Q



CASSETTE | Consistent air reaching every corner of a room.

4-WAY CASSETTE (DC)
RCI-FSRP



Color variation

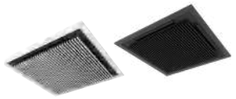
4-WAY CASSETTE (DC)
RCI-FSKDN1Q



TWIN-SENSE SYSTEM
RCI-FSRP+ P-AP160NAE2
RCI-FSKDN1Q+ P-AP160NAE2+OPT-EZJ01



Silent-Iconic™ Design Panel
P-GP160NAP, P-GP160NAPU, P-GP160KAP



4-WAY COMPACT CASSETTE (DC)
RCIM-FSRE



4-WAY COMPACT CASSETTE (DC) NEW
RCIM-HBUSQ



2-WAY CASSETTE (DC)
RCD-FSR



1-WAY CASSETTE (DC)
RCS-FSR



1-WAY CASSETTE (DC) NEW
RCIS-FSKDNQ



OTHERS | Minimal installation or retrofit works.

WALL MOUNTED (DC)
RPK-FSRM



WALL MOUNTED (DC)
RPK-HNBUSQ



FLOOR/CEILING CONVERTIBLE (AC)
RPFC-FSNQ



CEILING SUSPENDED (DC)
RPC-FSR



FLOOR CONCEALED (AC)
RPFI-FSNQ



Our key indoor features

Hitachi air, making a difference.

EXCLUSIVE

GENTLECOOL (FOR COOLING OPERATION)



RCI-FSRP (all panels) RCI-FSKDN1Q | RCIM-FSRE RCIM-HBUSQ | RCD-FSR | RCS-FSR RCIS-FSKDNQ | RPK-FSRM | RPC-FSR | PC-ARFG2

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

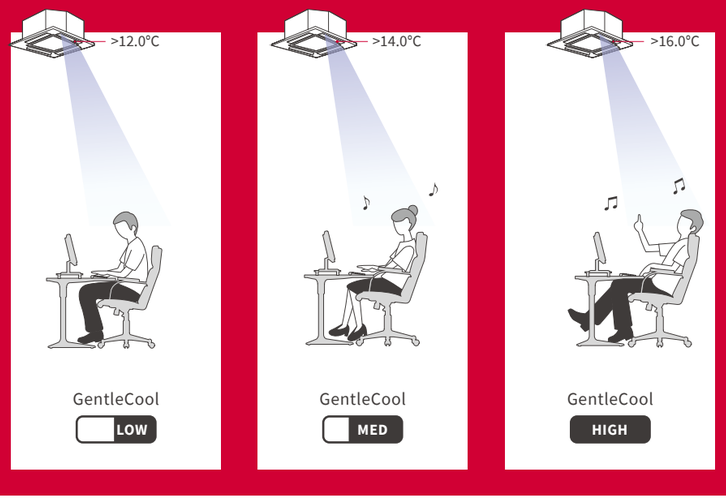
Without GentleCool, the unit might blow cooler air than expected when adjusting the indoor air temperature, causing a cool draft sensation at the beginning of operation.
With GentleCool, users have control over how discharged air reaches a preferred temperature setting, ensuring a smoother cooling down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

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

Potential discomfort.



GentleCool : no cold draft.



EXCLUSIVE

CROWD-SENSE: PREDICTIVE ADJUSTMENT TO OCCUPANCY VARIATIONS



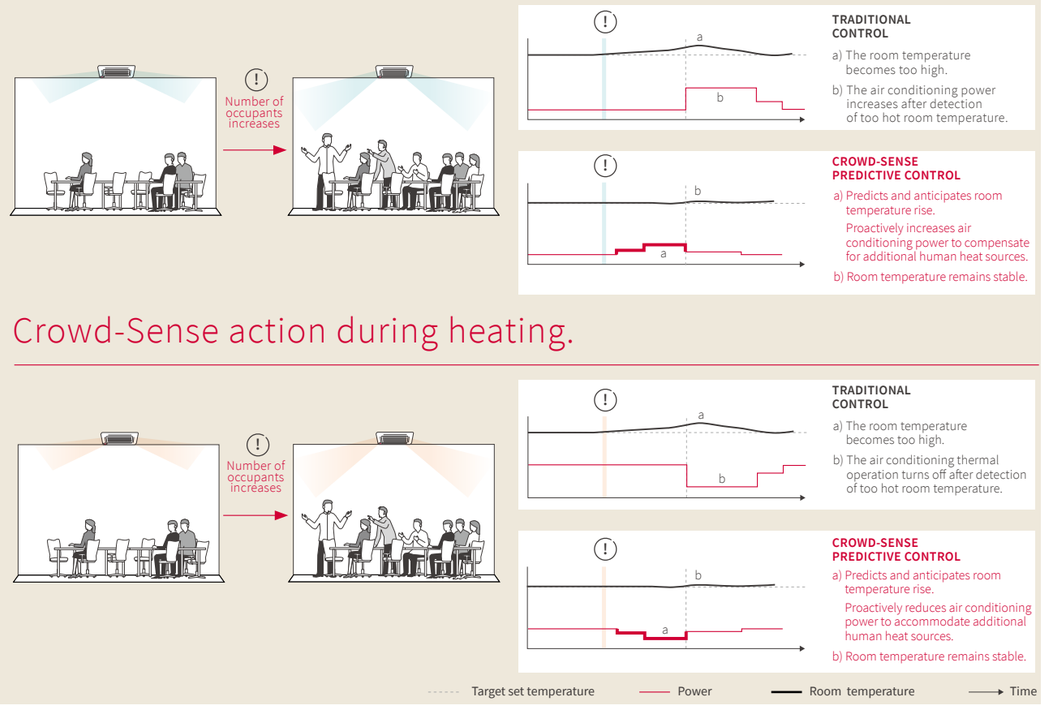
RCI-FSRP + P-AP160NAE2 | RCI-FSKDN1Q + P-AP160NAE2 + OPT-EZJ01 | PC-ARFG2

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.



Crowd-Sense action during heating.

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.

FEETWARM (FOR HEATING OPERATION)



RCI-FSRP
+
P-AP160NAE2



RCI-FSKDN1Q
+
P-AP160NAE2
+
OPT-EZJ01



PC-ARFG2

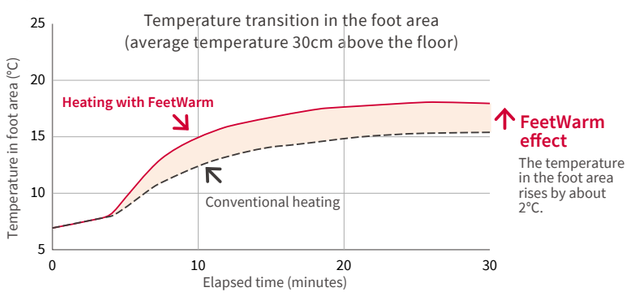
Head to toe comfort during winter.

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.

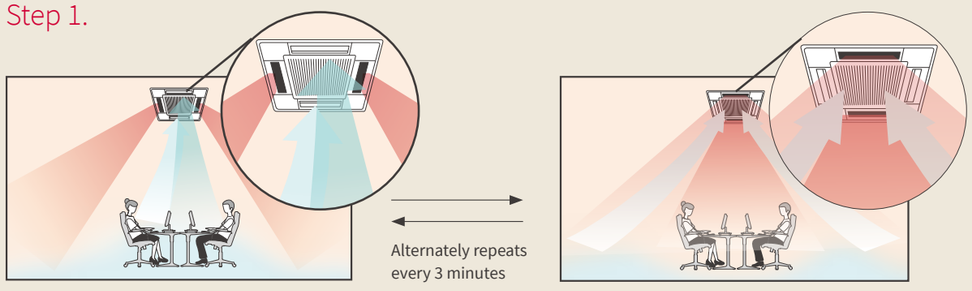
FeetWarm's boasts 4 intelligent features:

- 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.



How does it work?

Step 1.

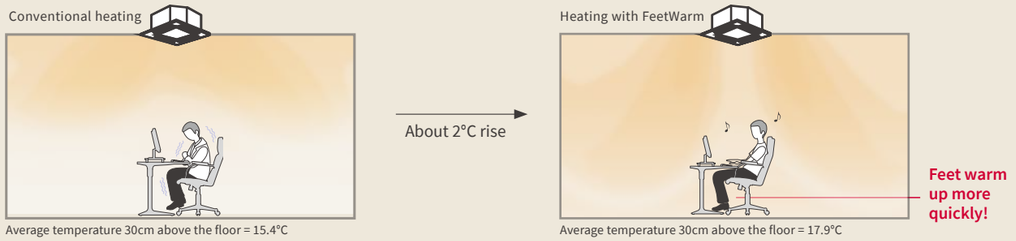


1. The radiant sensor detects a temperature drop in the floor and around your feet.
2. The cassette partially closes two louvers automatically.
3. The air flow strengthens through the two remaining open louvers, and targets the floor to warm it up quickly*1. Louver openings alternate every three minutes 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).

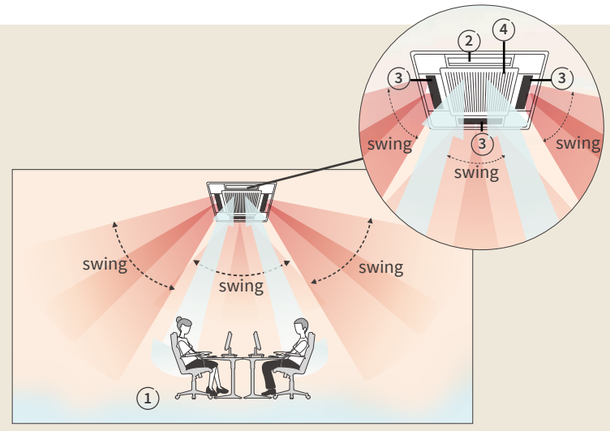


[Image based on calculation results]

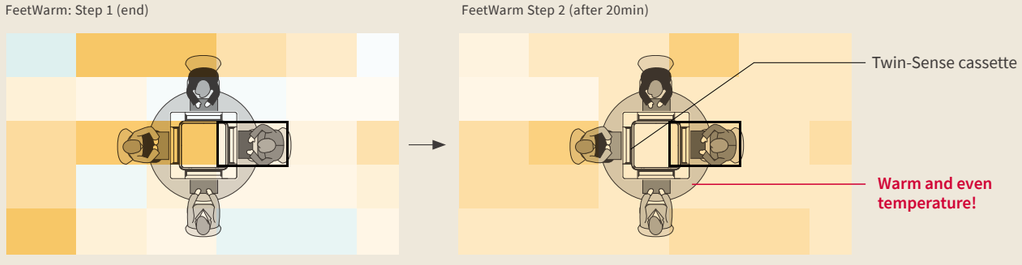


Step 2.

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.



[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



RCI-FSKDN1Q
+
P-AP160NAE2
+
OPT-EZJ01



PC-ARFG2

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.

CHOICE OF DIRECT OR INDIRECT AIR FLOW



RCI-FSRP
+
P-AP160NAE2



RCI-FSKDN1Q
+
P-AP160NAE2
+
OPT-EZJ01



PC-ARFG2

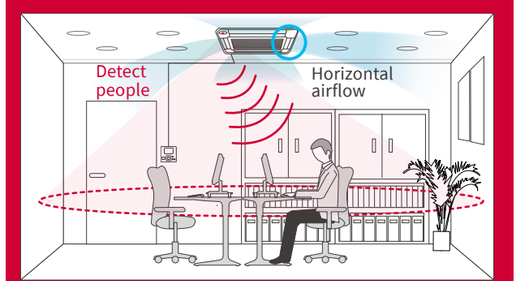
Want to feel the air? Or do you prefer imperceptible air? Choose the preferred air sensation and let the air conditioner adjusts the louver direction to your liking.

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.

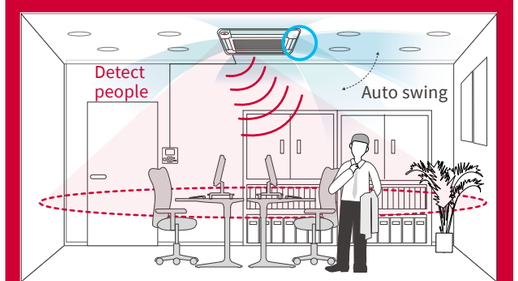
Horizontal air flow, for circulation above and around occupants without air blowing directly on them.



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.



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-ARFG2) 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.

Our key indoor features

Hitachi air, making a difference.

HOTEL SETBACK



RCI-FSRP
(all panels)
RCI-FSKDN1Q



RCIM-FSRE
RCIM-HBUSQ



RCD-FSR



RCS-FSR
RCIS-FSKDNQ



RPK-FSRM

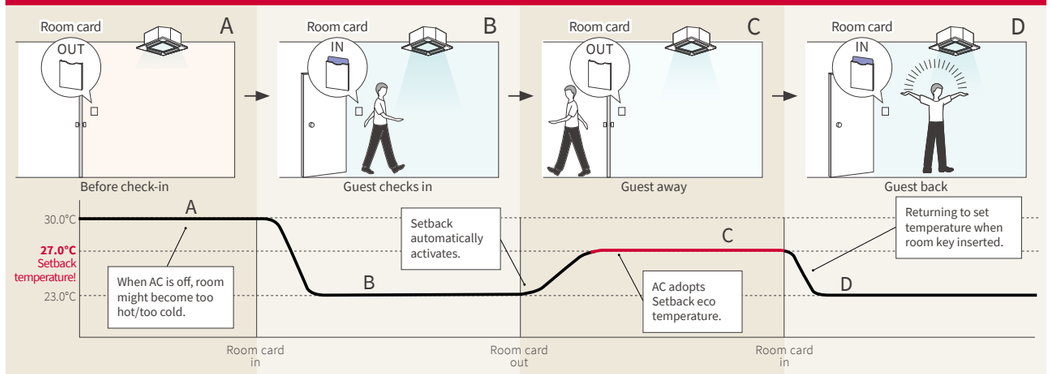


RPC-FSR



PC-ARFG2

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



AUTO-SAVE (WITH MOTION SENSOR)



RCI-FSRP
(P-AP160NAE2)



RCI-FSKDN1Q
+
P-AP160NAE2
+
OPT-EZJ01



RCIM-FSRE
(SOR-NEC)
RCIM-HBUSQ



RCD-FSR
(SOR-NED)



RCS-FSR
(SOR-NES)
RCIS-FSKDNQ



RPC-FSR
(SOR-NEP)



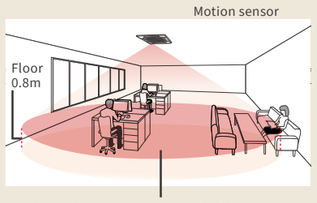
PC-ARFG2

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.

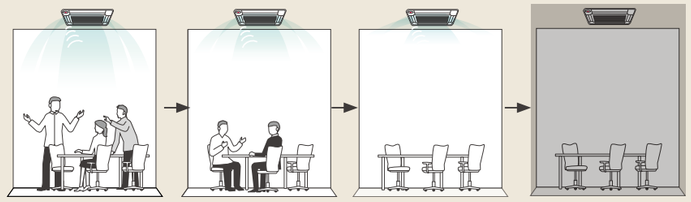
HOW DOES IT WORK?

Motion sensor



Detects human activity in each of the 4 zones

Auto-save

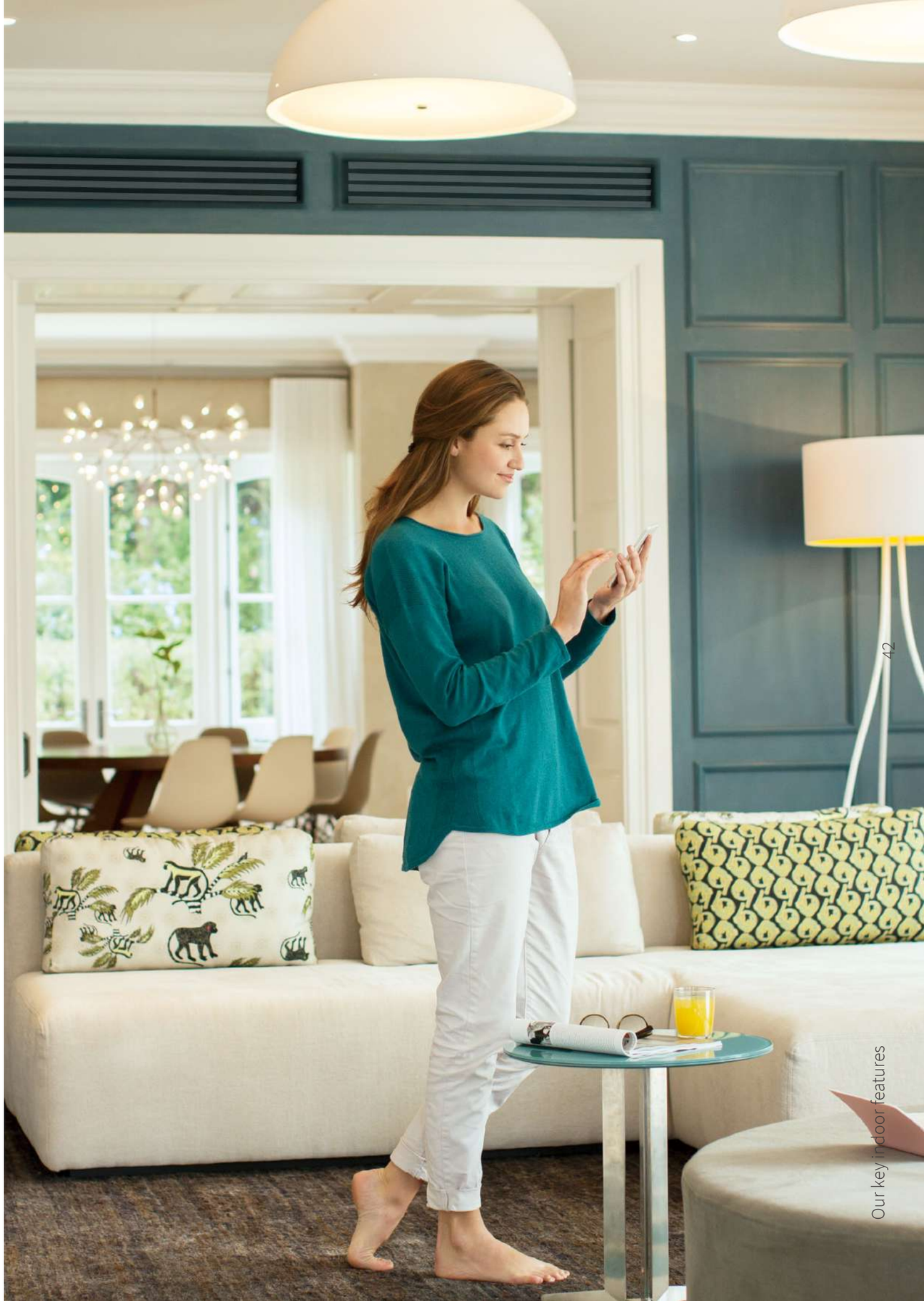


- Detected: High level of human activity
- Output: Full capacity

- 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





Indoor Air Quality

Live and work in harmony

Hitachi IAQ accessory Line-up

	01 ViroSense S filter	02 AQtiv-Ion Kit
Type of purchase	Now fitted as standard	Optional upgrade Model: JK-LAZQ
For those who…	· want to save additional cost · want to create the cleaner indoor environment	· Looking for low-maintenance non-intrusive ways of purifying air without installing separate purification units · Looking for both pollutant and odor reduction solutions
Key Features	· Lasts up to 5 years (12500h) · Anti-virus (>99% inhibition) · Anti-bacteria (>99% inhibition) · Anti-mold (100% growth stop)	· Lasts up to 6 years (15000h) · Generates negative ions and emits through AC airflow, which binds to pollutants and odors, sending them harmlessly to the floor · Plug & play; converts your ducted IDU into an air-purifying IDU · Up to 96.85% capturing of Influenza virus · Up to 74.90% removal of Formaldehyde

STANDARD-EQUIPPED FILTER

VIROSENSE S FILTER

We have renewed our standard air filter for some of our Hitachi VRF indoor units with leading-edge ion-technology, and, now it has THREE benefits for you & more assures indoor environment.
Our STANDARD Air Filter with Ion Purification feature, ViroSense S filter, will catch & reduce them, then help create the cleaner indoor environment.

ANTI-VIRUS



over 99% Inhibition

ANTI-BACTERIA



over 99% Inhibition

ANTI-MOLD



100% growth stop

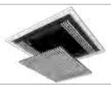
Testing information

[Anti-virus test]
Test Laboratory: Guangdong Detection Center of Microbiology
Test Report # 2021FM05008R01
Test Procedure: Based on ISO 18184:2019
Textiles - Determination of antiviral activity of textile products

[Anti-bacterial test]
Test Laboratory: Guangdong Detection Center of Microbiology
Test Report # 2021FM05005R01
Test Procedure: Based on JIS Z 2801:2010
Antibacterial products-Test for antibacterial activity and efficacy

[Anti-mold test]
Test Laboratory: Guangdong Detection Center of Microbiology
Test Report # 2021FM05006R01
Test Procedure: Based on JIS Z 2911:2018 (A)
Methods of test for fungus resistance

UNIT STANDARDIZED WITH VIROSENSE S FILTER

4-way Cassette (RCI-FSRP)						4-way Cassette (RCI-FSKDN1Q)	
TWIN-SENSE 4-way Panel	Standard 4-way Panel	Standard 4-way Panel	Silent-Iconic	Silent-Iconic Auto-elevating grille	Silent-Iconic	Standardized Panel	TWIN-SENSE 4-way Panel
White	White	Black	White	White	Black	-	White
							
P-AP160NAE2	P-AP160NA3	P-AP160KA3	P-GP160NAP	P-GP160NAPU	P-GP160KAP	(Standard Equipped)	P-AP160NAE2 + OPT-EZJ01

2-way Cassette (RCD-FSR)	1-way Cassette (RCS-FSR)	Ceiling Suspended (RPC-FSR)
		
P-AP90DNA/P-AP160DNA	P-AP36CNA/P-AP56CNA/P-AP80CNA	RPC-1.5FSR~6.0FSR

Note: for the additional filter purchase, it is treated as "service part". Please consult your distributors.

Indoor Air Quality

Live and work in harmony

OPTIONAL ACCESSORY FILTER

AQTIV-ION KIT

Model: JK-LZAQ

Combine your air conditioner with AQtiv-Ion Kit,
and provide a better and healthier indoor environment.



AQtiv-Ion Kit

Efficient combination with air conditioning

As AQtiv-Ion Kit is integrated into the air conditioning system, AQtiv-Ion Kit does not require its own fan, but uses the airflow from the air conditioner instead. That means, your new air purification device has minimal impact on the noise level and energy consumption, as it fits inside the pre-installed air conditioner.

COMMON FACTORS AFFECTING INDOOR AIR QUALITY

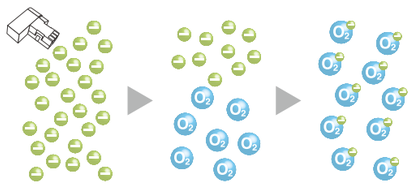
- Various pathogenic factors including bacteria and certain viruses caused by insufficient ventilation.
- Breeding of bacteria, mold and damage to household items, allergies caused by high humidity in wet season.
- Formaldehyde, ammonia, benzene and a variety of volatile organic compounds released by decoration materials.
- Second-hand smoking and kitchen oil fume.
- Dust and mites from fabrics, such as beddings and pet dander might cause allergies.

HOW AQTIV-ION KIT WORKS

- **Inactivation of SARS-CoV-2 by more than 99.9%**
- **Up to 96.85% capture of certain viruses and bacteria**
- **Down to PM0.3 micro particle removal**
- **Removal of pollutants**
- **Active oxygen generation**

AQTIV-ION KIT TECHNOLOGY

The AQtiv-Ion Kit generates negative ions, which when released into the air, combine with the oxygen (O_2) naturally present in the air. These newly created oxygen molecules trap the impure particles, certain viruses and bacteria and deactivate them.

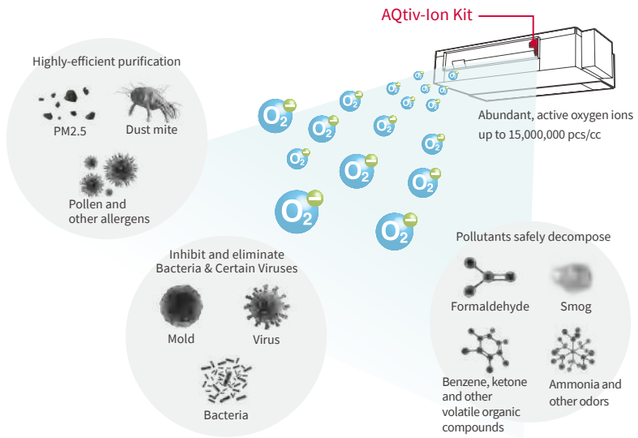


AQtiv-Ion Kit releases high-speed electrons into the room.

The free electrons collide with O_2 molecules.

Negative oxygen ions are created, ready to capture and inhibits the air impurities.

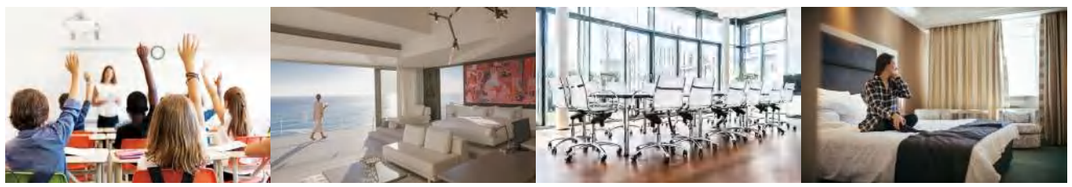
Fight Against The Multiple Invisibles



AQTIV-ION KIT DEACTIVATION PERFORMANCE

SARS-CoV-2	Escherichia coli	Influenza virus	Staphylococcus aureus	PM2.5	Formaldehyde	Ammonia
-99.9% (Inhibition rate)	**-96.64%** (Inhibition rate)	**-96.85%** (Removal rate)	**-93.88%** (Inhibition rate)	**-94.46%** (Removal rate)	**-74.90%** (Removal rate)	**-73.20%** (Removal rate)

AQTIV-ION KIT APPLICATIONS

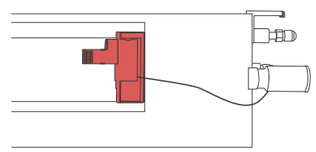


Classroom | Condominium | Meeting Room | Hotel

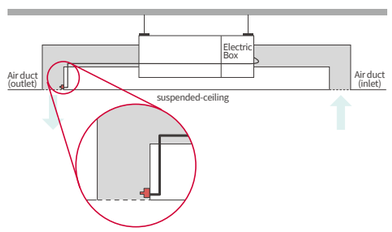
HOW TO INSTALL?

Plug and play!
Up to your installation condition, you can choose from two options for AQtiv-Ion Kit to be fixed to.

(1) Inside the indoor unit (air outlet)



(2) Inside the air duct (air outlet)



TECHNICAL SPECIFICATIONS

Model	JK-LZAQ
Wiring Length	1 meter
Rated power supply	220~240V, 50/60Hz
Electrical Power consumption	(Max) 3W
Operating temperature	-10~50 °C
Operating humidity	20~80%RH
Value of negative ion amount	15,000,000 pcs/cc
Certification	CE/CB

TESTING

[Escherichia coli] [Staphylococcus aureus]

Laboratory	Guangdong Detection Center of Microbiology
Testing standard	GB 21551.3-2010 Appendix A
Test Report	2019FM10157R01

[PM2.5]

Laboratory	Guangdong Detection Center of Microbiology
Testing standard	APIAC/LM 01-2015
Test Report	2019FM10157R02

[Influenza virus]

Laboratory	Guangdong Detection Center of Microbiology
Testing standard	Regulation of disinfection technique in healthcare settings <2002, 2-1-3>
Test Report	2019FM10157R03

[Formaldehyde] [Ammonia]

Laboratory	Guangdong Detection Center of Microbiology
Testing standard	QB/T2761-2006 etc
Test Report	2019FM10157R04

Please consult your Hitachi Cooling & Heating representative for more details concerning the test reports.

COMPATIBLE INDOOR UNITS WITH AQTIV-ION KIT

HIGH ESP (AC)	HIGH ESP (DC)	MEIDIUM ESP (AC)	LOW ESP (AC)	COMPACT (AC)	COMPACT (DC)
RPIH-**HNAUN1Q	RPIH-**HNDUSQ	RPIM-**HNAUN1Q	RPIL-**HNAUN1Q	RPIZ-**HNATN1Q	RPIZ-**HNDTS1Q



(*) For RPI-8.0/10.0FSNQH, please fix the AQtiv-Ion Kit to the indoor unit air-outlet.

AIR CONDITIONING TURNED INVISIBLE!

Our 6types of ducted units offer variety of ESP level, to facilitate integration into your project.



HIGH ESP (AC)
[RPIH-HNAUN1Q, RPI-FSNQ]

- High ESP (90/120/180Pa).
- Slim & space saving design thanks to a height of 300mm only (RPIH-HNAUN1Q).
- Compatible with AQtiv-Ion Kit (Optional accessory)



NEW

HIGH ESP (DC)
[RPIH-HNDUSQ]

- Single- Phase DC motor unit
- Adjustable external pressure up to 150pa
- Compatible with AQtiv-Ion Kit (Optional accessory



MEDIUM ESP (AC)
[RPIM-HNAUN1Q, 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).
- Compatible with AQtiv-Ion Kit (Optional accessory)



LOW ESP (AC)
[RPIL-HNAUN1Q]

- 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).
- Compatible with AQtiv-Ion Kit (Optional accessory)



COMPACT (AC)
[RPIZ-HNATN1Q]

- 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).
- Compatible with AQtiv-Ion Kit (Optional accessory)



COMPACT (DC)
[RPIZ-HNDTS1Q]

- 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.
- Compatible with AQtiv-Ion Kit (Optional accessory)

FROM 2.2KW TO 28KW

Ducted indoor units	Cooling (kW)	2.2	2.8	3.6	4.0	4.3	4.5	5.0	5.6	6.3	7.1	8.4	9.0	11.2	14.0	14.2	16.0	22.4	23.2	28.0
HIGH ESP (AC) [RPIH-HNAUN1Q, RPI-FSNQ]												●	●	●		●	●	●		●
HIGH ESP (DC) [RPIH-HNDUSQ]		●	●	●			●		●		●		●	●	●		●	●		●
MEDIUM ESP (AC) [RPIM-HNAUN1Q, RPI-FSN3Q]		●	●	●		●		●	●	●	●							●		●
LOW ESP (AC) [RPIL-HNAUN1Q]		●	●	●		●		●	●	●	●	●	●	●		●	●			
COMPACT (AC) [RPIZ-HNATN1Q]		●	●	●	●			●	●	●	●									
COMPACT (DC) [RPIZ-HNDTS1Q]		●	●	●	●			●	●	●	●									

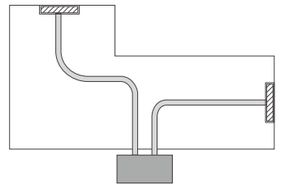
HIGH ESP HIGH EXTERNAL STATIC PRESSURE

(AC) [RPIH-HNAUN1Q, RPI-FSNQ]

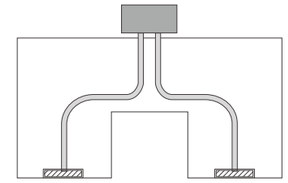


1) High ESP. (90/120/180Pa)
2)Space saving design thanks to a height of only 300mm. (RPIH-HNAUN1Q)
3) Flexible installation. Options allow for multiple configurations.
4) Optional drain pump. Drain-up mechanism can be supplied as optional part.
5) Compatible with AQtiv-Ion Kit (Optional accessory)

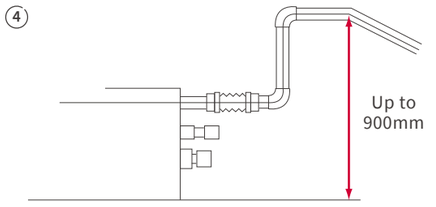
③ L-shaped space



U-shaped space



④



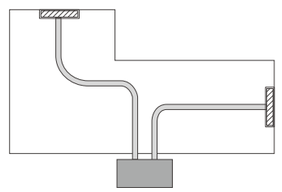
HIGH ESP HIGH EXTERNAL STATIC PRESSURE NEW

(DC) [RPIH-HNDUSQ]

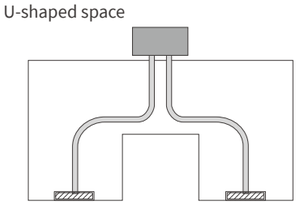


1) High external pressure up to 150Pa
2) Flexible installation allowing for multiple configurations
3) Optional drain-pump: Drain-up mechanism can be supplied as optional accessory
4) Compatible with AQtiv-Ion Kit (Optional accessory)
5) Wide capacity range from 2.2 up to 28.0 kW

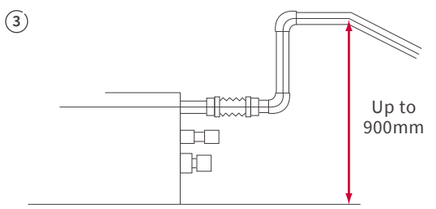
② L-shaped space



U-shaped space



③



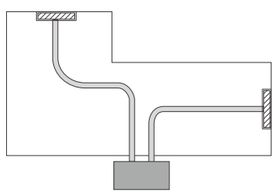


MEDIUM ESP MEDIUM EXTERNAL STATIC PRESSURE

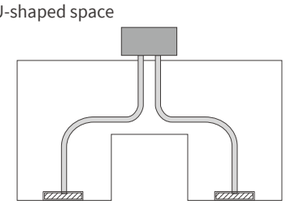
(AC) [RPIM-HNAUN1Q, RPI-FSN3Q]

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) Optional drain pump.
   Drain-up mechanism can be supplied as optional part.
5) Compatible with AQtiv-Ion Kit
   (Optional accessory)

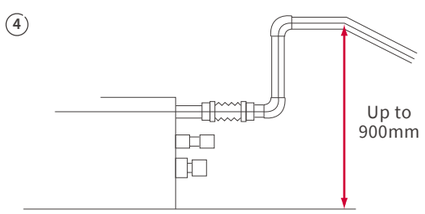
③ L-shaped space



U-shaped space



④



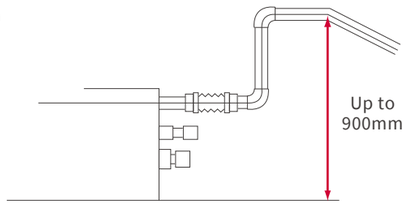


LOW ESP (LOW EXTERNAL STATIC PRESSURE)

(AC) [RPIL-HNAUN1Q]

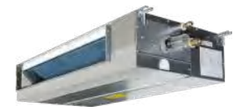
1) Low ESP. (30Pa for 0.8-2.5HP class, 60Pa for 3.0-6.0HP class)
2) Space saving design thanks to a height of only 270mm (0.8-2.5HP class) or 300mm (3.0-6.0HP class).
3) Optional drain pump.
   Drain-up mechanism can be supplied as optional part.
4) Compatible with AQtiv-Ion Kit
   (Optional accessory)

③



COMPACT

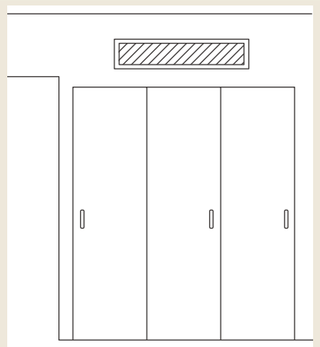
(AC) [RPIZ-HNATN1Q]



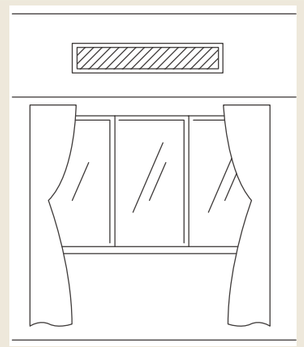
1) Ideal for installation over closets or windows thanks a more compact design, 192mm high.
2) Drain-pump with 900mm lift as standard optional part.
3) Quiet operation level.
   (as low as 20dB(A))
4) Fan air flow rate up to 6 taps.
   (DC motor model only)
5) Compatible with AQtiv-Ion Kit
   (Optional accessory)

①

Over a closet



In dropped ceiling, over window



COMPACT

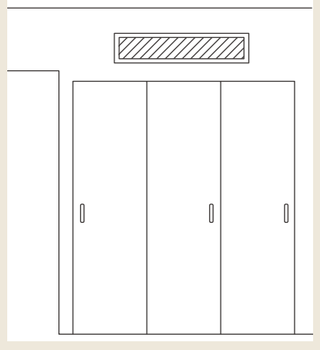
(DC) [RPIZ-HNDTS1Q]



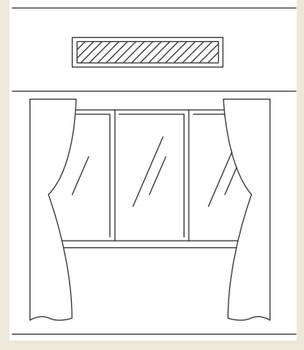
1) Ideal for installation over closets or windows thanks to a more compact design, 192mm high.
2) Drain-pump with 900mm lift as standard optional part.
3) Quiet operation level.
   (as low as 22.5dB(A))
4) Fan air flow rate up to 6 taps.
   (DC motor model only)
5) Compatible with AQtiv-Ion Kit
   (Optional accessory)

①

Over a closet



In dropped ceiling, over window



PREMIUM DESIGN & INNOVATIVE FEATURES

Meet with our newly upgraded offer, for upgraded comfort!





Twin-Sense panel
(P-AP160NAE2)

4-WAY CASSETTE (DC)

[RCI-FSRP]

(with P-AP160NAE2)
- Greater performance & Greater comfort can be achieved

(with P-GP160NAP)
- Award-winning Silent-Iconic™ to fit your indoor aesthetics.
- We have also Black type Silent-IconicTM, and, Gray/Beige normal panel.

(with P-GP160NAPU)
- Maintenance will be enormously improved by the auto-elevation grille.
- ViroSense S filter as standard!

Silent-Iconic™

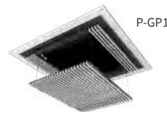


P-GP160NAP,
P-GP160KAP

Color variation (RCI-FSRP)



Silent-Iconic™ with elevation grille



P-GP160NAPU





Twin-Sense panel
(P-AP160NAE2)

4-WAY CASSETTE (DC)

[RCI-FSKDN1Q]

- With area of air distribution with 7 directions of louvers (distribution with distance available with optional parts (duct flange))
- Individual four-way louvres for greater comfort for individual users
- Ideal for a higher ceiling location for installation (up to 5.5m in cooling mode)
- Setback temperature control available, leading to better operation.
- GentleCool control to ensure you are not bothered by cold draft
- ViroSense S filter as standard!



4-WAY COMPACT CASSETTE (DC)

[RCIM-FSRE]

- Made to give you greater design flexibility as the dimensions fit 600mm×600mm architectural module ceiling specifications
- Quiet operation level (as low as 24.5dB(A))
- Wide range of air flow rate ideal for high ceiling installation with 4.6m air blow down in cooling mode
- Setback temperature control available, leading to better operation.
- Motion sensor available for better energy saving operation
- GentleCool control to ensure you are not bothered by cold draft



NEW

4-WAY CASSETTE COMPACT (DC)

[RCIM-HBUSQ]

- 4 taps fan speed available for your preferred comfort
- Just 215mm low-height cabinet helps to make the ceiling look higher
- Quiet operation thanks to minimum 26dB(A) noise level
- Benefit from the inclusion of a high-lift DC drain condensation water pump as standard built-in component, simplifying installation processes.



2-WAY CASSETTE (DC)

[RCD-FSR]

- Motion sensor available for better energy saving operation
- Ideal for a higher ceiling location for installation (up to 4.6m in cooling mode)
- Individually operated louvers give room occupants more comfort
- Quiet operation level (as low as 27dB(A))
- Setback temperature control available, leading to better operation.
- GentleCool control to ensure you are not bothered by cold draft
- ViroSense S filter as standard!



1-WAY CASSETTE (DC)

[RCS-FSR]

- Motion sensor available for better energy saving operation
- Optimum air flow conditions are created by either downward air discharge or frontal air discharge (via optional grille) or a combination of both
- Quiet operation level (as low as 27dB(A))
- Setback temperature control available, leading to better operation.
- GentleCool control to ensure you are not bothered by cold draft
- ViroSense S filter as standard!



NEW

1-WAY CASSETTE (DC)

[RCIS-FSKDNQ]

- The slender 192mm profile of the unit enhances ceiling height and elevates aesthetics.
- Experience tranquil operation with noise levels as minimal as 27dB(A).
- Benefit from the inclusion of a high-lift DC drain condensation water pump, simplifying installation processes.

FROM 1.6KW TO 16KW

Ceiling cassettes	Cooling (kW)	1.5	1.6	2.2	2.8	3.6	4.0	4.5	5.0	5.6	6.3	7.1	8.0	11.2	14.0	16.0
4-WAY CASSETTE (DC) [RCI-FSRP]					●		●			●		●	●	●	●	●
4-WAY CASSETTE (DC) [RCI-FSKDN1Q]					●		●			●	●	●	●	●	●	●
4-WAY COMPACT CASSETTE (DC) [RCIM-FSRE]			●	●	●		●			●		●				
4-WAY COMPACT CASSETTE (DC) [RCIM-HBUSQ]		●		●	●	●		●	●	●						
2-WAY CASSETTE (DC) [RCD-FSR]				●	●		●			●		●	●	●	●	●
1-WAY CASSETTE (DC) [RCS-FSR]				●	●		●			●		●	●			
1-WAY CASSETTE (DC) [RCIS-FSKDNQ]					●	●		●		●		●				



Solutions

Ceiling cassettes

4-WAY CASSETTE DESIGN PANEL

Silent-Iconic™

Exclusive panel: architectural designers will love it!



reddot winner 2021
best of the best

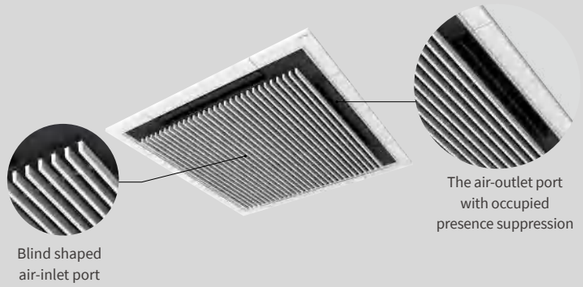
[Silent-iconic] receives Red Dot: Best of the Best for ground-breaking design quality

iF Design Award 2020
Award Winning
(Discipline: Product)

Good Design Award
(Category: Equipment and facilities for professional use)

The design is well-matched to the space

It is designed to harmonize with the space by creating the central part to be a blind shaped air-inlet port and reducing its occupied presence by darkening the air-outlet port.



Tomohiko Sato

Hitachi, Ltd. Product Design Department, Senior Designer



The designer graduated from University in the United Kingdom and soon after, he joined a London based design studio, working across a wide variety of disciplines including furniture, interior and the public realm. Currently, he dedicates himself to air conditioning design, working as a Senior Designer in the Hitachi product design department in Hitachi, Ltd.



Success that sparks

Shop information

Dondi Salotti

Via Camillo Cavour 57 Gaglianico, Biella, Italia

dondisalotti.com

General Information

Year of installation : 2022

Project type : Retrofit

Vertical application: Furniture shop

Installed unit : Total 32HP, (10 units of Silent-Iconic 4-way Cassette)







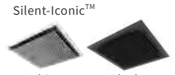




4-WAY CASSETTE

(DC) [RCI-FSRP, RCI-FSKDN1Q]

DECORATION PANEL LINE-UP

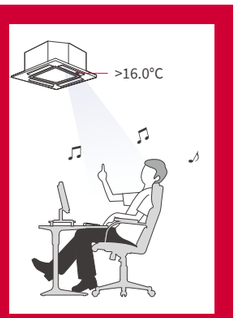
Normal	Smart	Aesthetics	Maintenance
Standard	with motion sensor + radiant temperature sensor	Color Panel Design Panel	Silent-Iconic™ with Elevation Grille
P-AP160NA3	P-AP160NAE2	-	P-GP160NAPU
		Standard (Custom Order)  Beige Gray Black Silent-Iconic™  White P-GP160NAP Black P-GP160KAP	
(H×W×D) 40×950×950(mm)	(H×W×D) 40×950×950(mm)	Standard (H×W×D) 40×950×950(mm) Silent-Iconic™ (H×W×D) 52×950×950(mm)	(H×W×D) 52×950×950(mm)
RCI-FSRP	**RCI-FSRP, RCI-FSKDN1Q**	**RCI-FSRP**	**RCI-FSRP**

TWIN-SENSE CASSETTE

Adaptive comfort for real life.

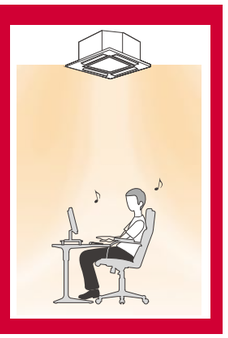
EXCLUSIVE
GENTLECOOL

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



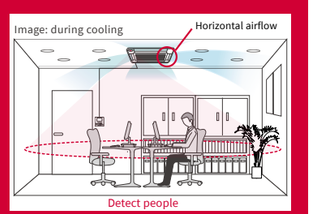
FEETWARM

(with radiant temperature sensor)
During heating, ensures warmth reaches and remains on the floor and around occupants' feet and legs.



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.



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.

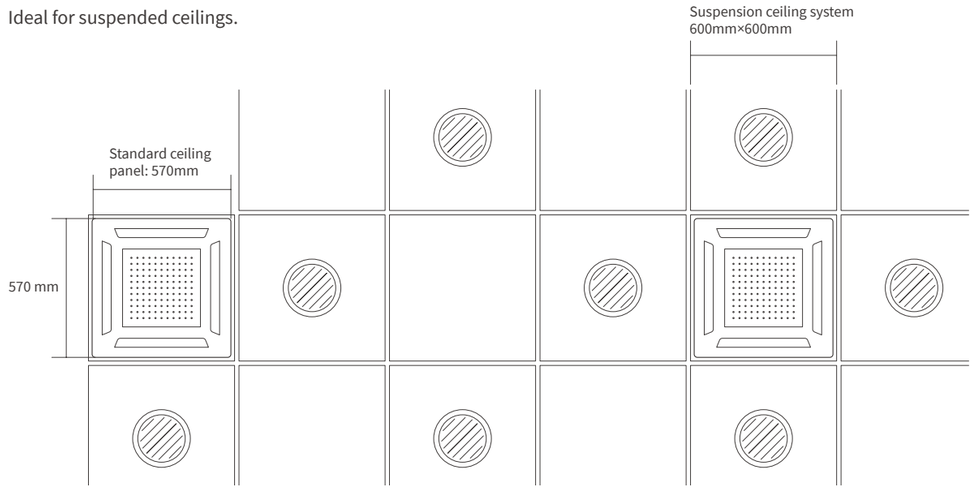


4-WAY COMPACT CASSETTE

(DC) [RCIM-FSRE]

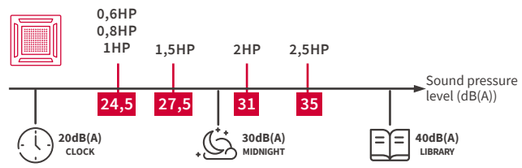


① Ideal for suspended ceilings.

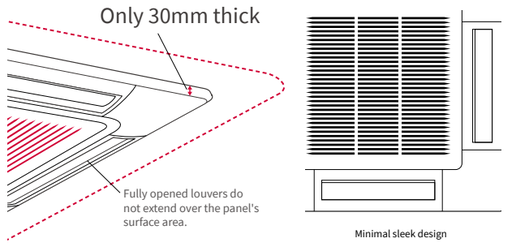


The 600x600 unit can fit in between lighting panels without any disruption.

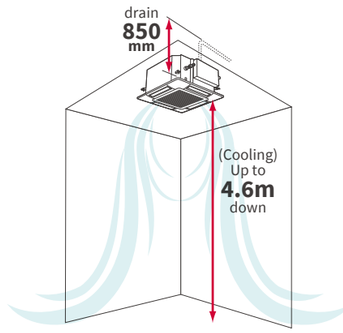
② Whisper quiet sound level.



③ Esthetics.



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



* Air flow rate: Hi2
* 2.0-2.5 FSRE



4-WAY CASSETTE COMPACT (DC)

[RCIM-HBUSQ]

① Precise Temperature Control: Temperature can be set in 0.5°C increments, helping you achieve a perfectly comfortable indoor environment.

② Compact Panel Size: Panel size is 620×620mm (unit size 570×570mm), making it suitable for various spaces. It fits perfectly into 600×600 grid suspended ceilings.

③ Energy-Efficient DC Fan Motor: Operates with low power consumption while delivering both energy savings and comfort.

④ Air Quality Features: Equipped with a removable return air filter as standard. Fresh air intake is also available.

⑤ Condensate Drain Pump (Standard): Comes with a built-in condensate pump kit with an 850mm lift, reducing initial costs and offering greater design flexibility.

⑥ Sleep Mode (PC-ARC only): With one click, users can activate a sleep-friendly environment for enhanced comfort during rest.

Highly Compact Size

Installation to a narrow space is possible



For Powder Room



Between Ceiling Lights



1-WAY CASSETTE (DC)

[RCIS-FSKDNQ]

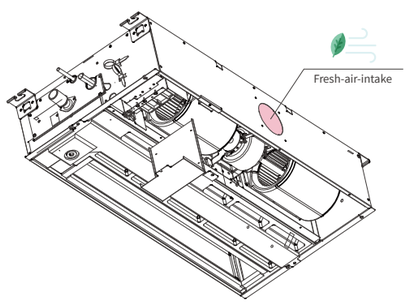
① The indoor unit features a slim 192mm profile with a stylish design, making installation simple.

② A fresh air inlet is integrated into the unit to improve indoor air quality.

③ The adjustable wind deflector directs airflow to every corner of the room.

④ The DC fan motor offers six speed settings to accommodate various airflow needs.

⑤ The high-lift DC drain condensate pump (850mm height) operates quietly and efficiently, adapting to diverse installation conditions.



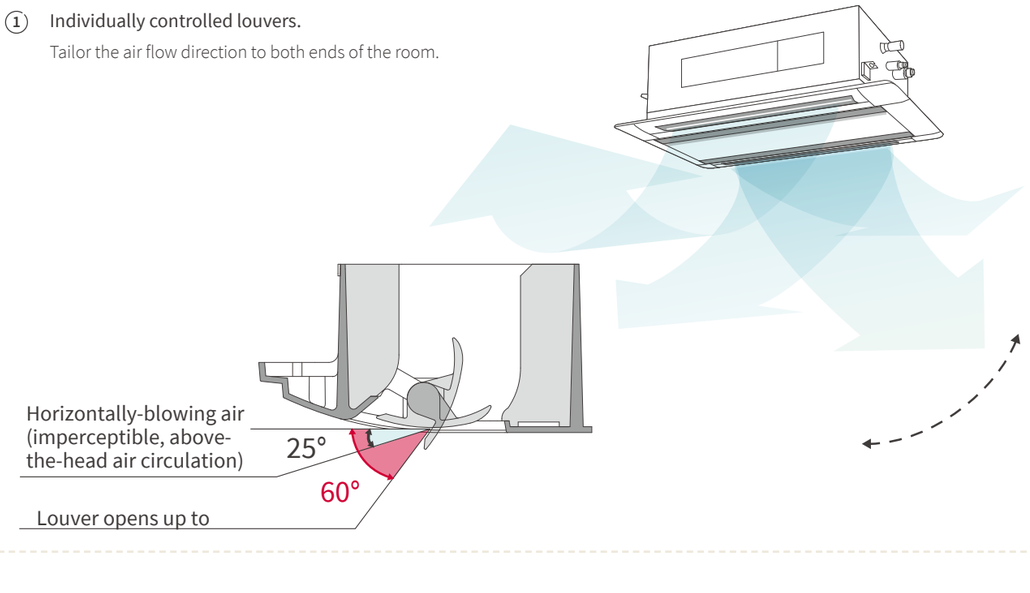
2-WAY CASSETTE

(DC) [RCD-FSR]

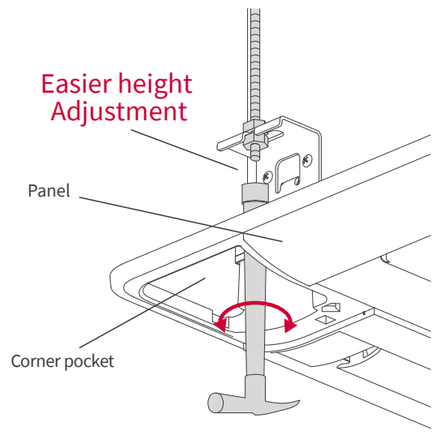


① Individually controlled louvers.

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

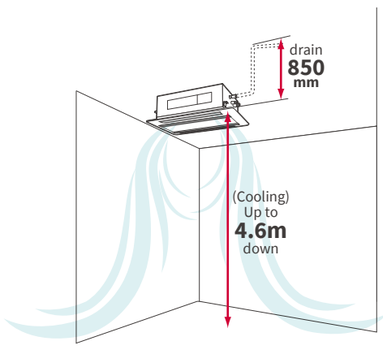


② Facilitated installation.



③ Suitable for high ceilings.

Standard drain pump: up to 850mm rise.



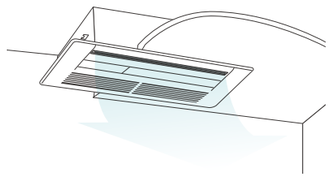
* Air flow rate: Hi2
* 2.0-6.0 FSR



1-WAY CASSETTE

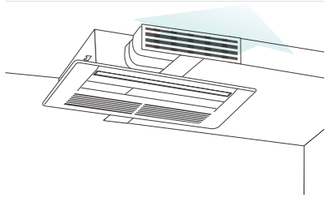
(DC) [RCS-FSR]

① 3 types of installation.



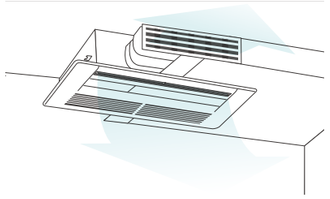
In corner with open louvers (typical).

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.

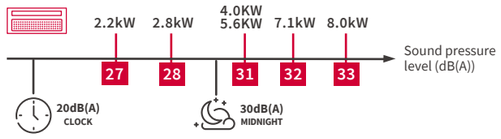


Open louver & ceiling horizontal vent.

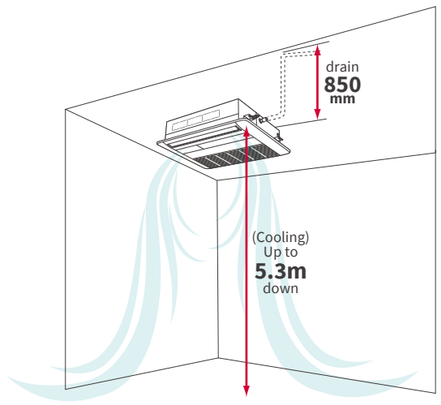
Get two directions with 1-way cassette! Connect the cassette with a horizontal vent on the side, and create both downward air flow and horizontal air flow at the same time.

② Whisper quiet sound level.

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



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



*Air flow rate: Hi2
*2.5-3.0 FSR
*standard corner type

WIDE RANGE OF MODELS FOR MINIMAL INSTALLATION WORKS

Hitachi range offers our widest choice of indoor units to give you the versatility to complement any interior.



WALL MOUNTED (DC)

[RPK-FSRM]

- Simple installation procedure
- Flexible discreet design suitable for any interior
- Setback temperature control available, leading to better operation.
- GentleCool control to ensure you are not both



WALL MOUNTED (DC)

[RPK-HNBUSQ]

- Economic choice for any type of room
- Display set-temperature and operation status on front cover by LED



FLOOR/CEILING CONVERTIBLE (AC)

[RPFC-FSNQ]

- Each unit can be floor mounted or ceiling suspended
- Easy installation
- Fresh air-intake design



CEILING SUSPENDED (DC)

[RPC-FSR]

- Ideal for a higher ceiling (up to 5.6m in cooling)
- Better power-saving with optional Motion Sensor
- Quiet operation level (as low as 28dB(A))
- Setback temperature control available, leading to better operation.
- GentleCool control to ensure you are not bothered by cold draft
- ViroSense S filter as standard!



FLOOR CONCEALED (AC)

[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)	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
WALL MOUNTED (DC) [RPK-FSRM]										●	●			●			
WALL MOUNTED (DC) [RPK-HNBUSQ]		●	●	●	●		●	●	●	●							
FLOOR / CEILING CONVERTIBLE (AC) [RPFC-FSNQ]							●	●	●	●		●	●	●		●	
CEILING SUSPENDED (DC) [RPC-FSR]					●			●		●	●			●	●		●
FLOOR CONCEALED (AC) [RPFI-FSNQ]			●			●		●		●							



WALL MOUNTED
(DC) [RPK-FSRM]

1) Simple installation procedure.
2) Flexible discreet design suitable for any interior.
3) Hotel Setback feature available, leading to better operation.
4) GentleCool control to ensure you are not bothered by cold draft.



WALL MOUNTED
(DC) [RPK-HNBUSQ]



1) Meet your detailed requirement & Display
RDC fan motor help realize 6-step fan speed adjustment, more quiet and efficient. Also newly equipped display set-temperature and operation status on front cover by LED.

2) 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.

3) 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.
Compact cabinet design with 203mm depth up to 1.3HP and 230mm depth up to 2.5HP.

4) 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.



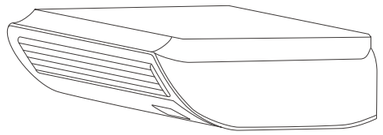


FLOOR/CEILING CONVERTIBLE

(AC) [RPFC-FSNQ]

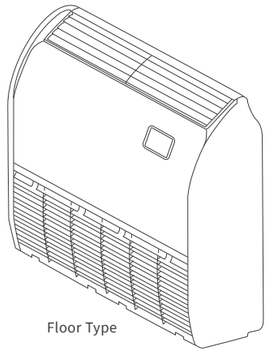
① 2-in-1 versatile unit.

Ceiling-suspended installation.
Supplies air to a wide area. Suitable for higher ceilings.



Ceiling Type

Floor-mounted installation.
Smaller footprint: only 230mm in depth. Suitable for installation beneath a window thanks to the 680mm height.



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.



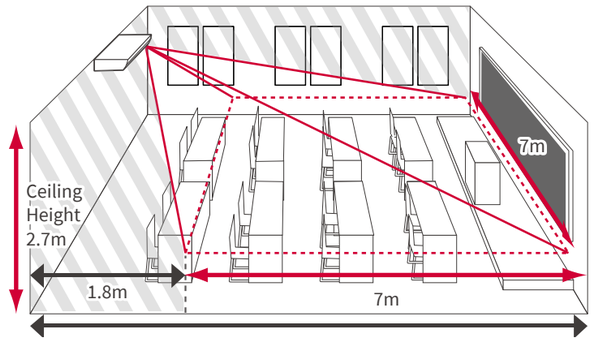
CEILING SUSPENDED

(DC) [RPC-FSR]

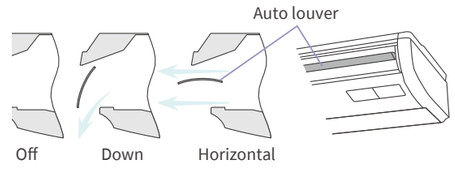


① 7m reach motion sensor (option: SOR-NEP).

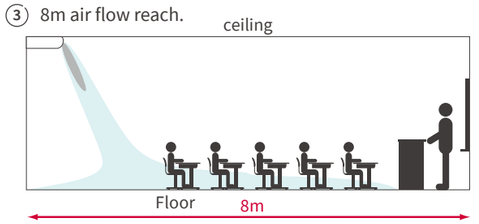
Use a motion sensor for extra savings when the room is vacant.



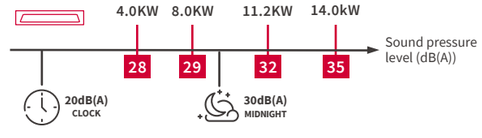
② Auto-swing available.



③ 8m air flow reach.



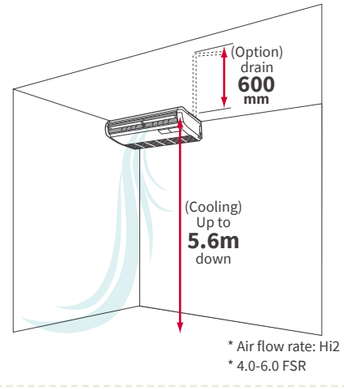
④ Decreased sound pressure, thanks to new fan inlet and fan designs.



⑤ 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



* Air flow rate: Hi2
* 4.0-6.0 FSR

Solutions

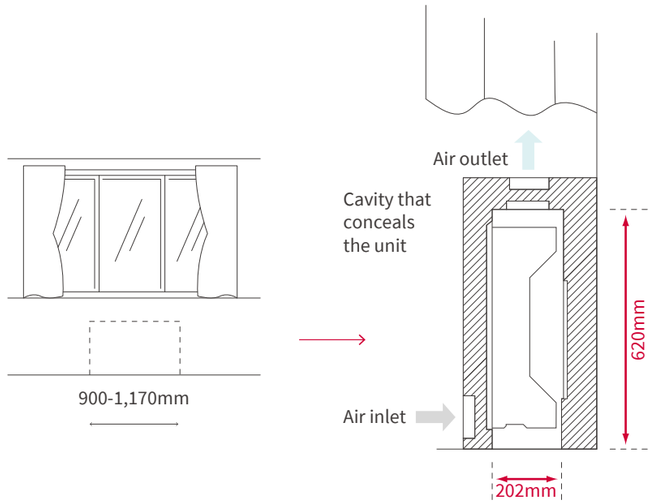
Other indoor units



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.



Specifications & accessories



HIGH ESP HIGH EXTERNAL STATIC PRESSURE

(AC) [RPIH-HNAUN1Q, RPI-FSNQ]

Model			RPIH-3.0HNAUN1Q	RPIH-3.3HNAUN1Q	RPIH-4.0HNAUN1Q	RPIH-5.0HNAUN1Q	RPIH-6.0HNAUN1Q	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)	m^3/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 connection	
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		m^3	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-HNAUN1Q	DUPI-361Q
	PRI-FSNQ	DUPI-15H2Q
Air filter	3.0-4.0 (HP)	KW-PP9Q
	5.0-6.0 (HP)	KW-PP10Q
AQtiv-Ion Kit	PRIH-HNAUN1Q	JK-LZAQ

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



HIGH ESP HIGH EXTERNAL STATIC PRESSURE

(DC) [RPIH-HNDUSQ]

Model			RPIH-0.8HNDUSQ	RPIH-1.0HNDUSQ	RPIH-1.3HNDUSQ	RPIH-1.5HNDUSQ	RPIH-2.0HNDUSQ	RPIH-2.5HNDUSQ	RPIH-3.0HNDUSQ	RPIH-4.0HNDUSQ
Indoor Unit Power Supply			AC1Φ, [220~240V/50(60)Hz]							
Nominal Cooling		kW	2.2	2.8	3.6	4.5	5.6	7.1	9.0	11.2
Capacity		kcal/h	1,900	2,400	3,100	3,900	4,800	6,100	7,700	9,600
		Btu/h	7,500	9,600	12,300	15,400	19,100	24,200	30,800	38,000
Cooling Power Consumption		kW	0.040	0.040	0.055	0.055	0.055	0.074	0.100	0.132
Nominal Heating		kW	2.5	3.2	4.0	4.6	6.3	8.0	10.0	12.5
Capacity		kcal/h	2,200	2,800	3,400	4,000	5,400	6,900	8,600	10,700
		Btu/h	8,500	10,900	13,700	17,100	21,600	27,400	34,200	42,500
Heating Power Consumption		kW	0.040	0.040	0.055	0.055	0.055	0.074	0.100	0.132
Sound Pressure Level (Overall A Scale)		dB(A)	30/27/23/ 21/20/19	30/27/23/ 21/20/19	35/33/32/ 28/26/24	35/33/32/ 28/26/24	33/30/27/ 25/23/22	33/31/28/ 25/23/21	34/32/30/ 28/25/22	37/35/31/ 29/26/23
Outer Dimensions H×W×D		mm	270×(650+75)×720			270×(900+75)×720		300×(1,100+75)×800		
Net Weight		kg	23	23	24	24	30	40	40	40
Refrigerant		—	R410A(Nitrogen-Charged for Corrosion-Resistance)							
Indoor Fan Air Flow Rate		m^3/h (CFM)	9/8/6.8/6.3/ 5.8/5.3 (318/283/240/ 222/205/187)	9/8/6.8/6.3/ 5.8/5.3 (318/283/240/ 222/205/187)	12/11/10/ 9/8/7.2 (424/388/353/ 318/283/254)	12/11/10/ 9/8/7.2 (424/388/353/ 318/283/254)	14.5/13/11.5/ 10.5/9.5/8.7 (512/459/406/ 371/335/307)	20.6/19/17/ 15/13.8/12.5 (727/671/600/ 530/459/371)	25/23/21/ 19/17/15 (883/812/742/ 671/600/530)	28/25/23/ 21/19/17 (989/883/812/ 742/671/600)
External Pressure		Pa	30(90/150)	30(90/150)	30(90/150)	30(90/150)	30(90/150)	50(130/200)	50(130/200)	50(130/200)
Piping Connection	Conection	—	Flare-nut Connection(with Flare Nuts)							
	Liquid Line	mm(in.)	Φ6.35(1/4)	Φ6.35(1/4)	Φ6.35(1/4)	Φ6.35(1/4)	Φ6.35(1/4)	Φ9.53(3/8)	Φ9.53(3/8)	Φ9.53(3/8)
	Gas Line	mm(in.)	Φ12.7(1/2)	Φ12.7(1/2)	Φ12.7(1/2)	Φ12.7(1/2)	Φ15.88(5/8)	Φ15.88(5/8)	Φ15.88(5/8)	Φ15.88(5/8)
Condensate Drain		—	VP25(Outer Diameter Φ32mm)							
Approximate Packing Measurement		m^3	0.30	0.30	0.30	0.30	0.38	0.53	0.53	0.53

Model			RPIH-5.0HNDUSQ	RPIH-6.0HNDUSQ	RPIH-8.0HNDUSQ	RPIH-10.0HNDUSQ
Indoor Unit Power Supply			AC1Φ, [220~240V/50(60)Hz]		AC1Φ, [220~240V/50Hz] [220V/60Hz]	
Nominal Cooling		kW	14.0	16.0	22.4	28.0
Capacity		kcal/h	12,000	13,800	19,300	24,100
		Btu/h	48,000	54,500	76,500	95,600
Cooling Power Consumption		kW	0.180	0.223	0.49	0.83
Nominal Heating		kW	16.0	18.0	25.0	31.5
Capacity		kcal/h	13,800	15,500	21,500	27,100
		Btu/h	54,500	61,500	85,300	107,500
Heating Power Consumption		kW	0.180	0.223	0.49	0.83
Sound Pressure Level (Overall A Scale)		dB(A)	38/36/34/ 31/29/26	41/38/35/ 33/30/27	49/48/47/ 46/45/44	53/52/50/ 49/47/45
Outer Dimensions H×W×D		mm	300×(1,400+75)×800	300×(1,400+75)×800	470×1,250×1,120	470×1,250×1,120
Net Weight		kg	49	49	104	104
Refrigerant		—	R410A(Nitrogen-Charged for Corrosion-Resistance)		R410A(Nitrogen-Charged for Corrosion-Resistance)	
Indoor Fan Air Flow Rate		m^3/h (CFM)	35.5/32.5/29.5/ 26.5/23.5/20.5 (1254/1148/1042/ 936/830/724)	39/35.5/31/ 26.5/23.5/21.8 (1377/1254/1095/ 936/830/770)	57/54/52/ 51/49/47.5 (2012/1906/1835/ 1800/1730/1677)	72/68/65/ 61/57.5/50 (2541/2400/2294/ 2153/2030/1765)
External Pressure		Pa	50(130/200)	50(130/200)	150	150
Piping Connection	Conection	—	Flare-nut Connection(with Flare Nuts) Brazing		Flare-nut Connection(with Flare Nuts) Brazing	
	Liquid Line	mm(in.)	Φ9.53(3/8)	Φ9.53(3/8)	Φ9.53 (3/8)	Φ9.53 (3/8)
	Gas Line	mm(in.)	Φ15.88(5/8)	Φ15.88(5/8)	Φ22.2/Φ19.05 (7/8,3/4)	Φ22.2 (7/8)
Condensate Drain		—	VP25(Outer Diameter Φ32mm)		VP25(Outer Diameter Φ32mm)	
Approximate Packing Measurement		m^3	0.65	0.65	1.08	1.08

Receiver Kit		Basic	PC-RLH11
Condensate Drain Pump Kit		0.8~2.0HP	DUPI-131Q
		2.5~6.0HP	DUPI-361Q
		8/10HP	DUPI-810AQ
Air filter	Normal Filter	0.8~1.5HP	KW-PP7Q
		2.0HP	KW-PP8Q
		2.5~4.0HP	KW-PP9Q
		5.0~6.0HP	KW-PP10Q
		8/10HP	KW-PP14Q
	Coarse Filter	8/10HP	F-10LPIE
	ePM10 Filter	8/10HP	F-10HPIE
	FIlter Box	8/10HP	FB-10PIE
AQtiv-Ion Kit			JK-LZAQ

NOTES:
1. The nominal cooling capacity iand heating capacity are based on following conditions:.

   Cooling Operation Conditions
   Indoor Air Inlet Temperature: ..... 27°C DB (80°F DB)
   19.0°C WB (66.2°F WB)
   Outdoor Air Inlet Temperature: ..... 35°C DB (95°F DB)

   Heating Operation Conditions
   Indoor Air Inlet Temperature: ..... 20°C DB (68°F DB)
   Outdoor Air Inlet Temperature: ..... 7°C DB (45°F DB)
   6°C WB (43°F WB)

   Piping Length:7.5 Meters Piping Lift:0 Meter

2. The sound pressure level is based on following conditions. 1.4m below the unit.
   With discharge duct (2.0m) and return duct (1.0m).
   The above data were measured in an anechoic chamber so that reflected sound should be taken into consideration on the job site.

MEDIUM ESP MEDIUM EXTERNAL STATIC PRESSURE

(AC) [RPIM-HNAUN1Q, RPI-FSN3Q]



Model			RPIM-0.8HNAUN1Q	RPIM-1.0HNAUN1Q	RPIM-1.3HNAUN1Q	RPIM-1.5HNAUNQ	RPIM-1.8HNAUN1Q	RPIM-2.0HNAUN1Q	RPIM-2.3HNAUN1Q	RPIM-2.5HNAUN1Q	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)	m^3/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 connection	
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		m^3	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
AQtiv-Ion Kit	PRIM-HNAUN1Q	JK-LZAQ

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-HNAUN1Q]

Model			RPIL-0.8HNAUN1Q	RPIL-1.0HNAUN1Q	RPIL-1.3HNAUN1Q	RPIL-1.5HNAUN1Q	RPIL-1.8HNAUN1Q	RPIL-2.0HNAUN1Q	RPIL-2.3HNAUN1Q
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)	m^3/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		m^3	0.22	0.22	0.22	0.22	0.28	0.28	0.28

Model			RPIL-2.5HNAUN1Q	RPIL-3.0HNAUN1Q	RPIL-3.3HNAUN1Q	RPIL-4.0HNAUN1Q	RPIL-5.0HNAUN1Q	RPIL-6.0HNAUN1Q
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)	m^3/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		m^3	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
AQtiv-Ion Kit		JK-LZAQ

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-HNDTS1Q]

Model			RPIZ-0.8HNDTS1Q	RPIZ-1.0HNDTS1Q	RPIZ-1.3HNDTS1Q	RPIZ-1.5HNDTS1Q	RPIZ-1.8HNDTS1Q	RPIZ-2.0HNDTS1Q	RPIZ-2.3HNDTS1Q	RPIZ-2.5HNDTS1Q
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)	m^3/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		m^3	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	0.8-1.3 (HP)	KW-PP12Q
	1.5 (HP)	KW-PP5Q
	1.8-2.5 (HP)	KW-PP6Q
AQtiv-Ion Kit		JK-LZAQ

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

(AC) [RPIZ-HNATN1Q]

Model			RPIZ-0.8HNATN1Q	RPIZ-1.0HNATN1Q	RPIZ-1.3HNATN1Q	RPIZ-1.5HNATN1Q	RPIZ-1.8HNATN1Q	RPIZ-2.0HNATN1Q	RPIZ-2.3HNATN1Q	RPIZ-2.5HNATN1Q
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)	m^3/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		m^3	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	0.8-1.3 (HP)	KW-PP12Q
	1.5 (HP)	KW-PP5Q
	1.8-2.5 (HP)	KW-PP6Q
AQtiv-Ion Kit		JK-LZAQ

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.



4-WAY CASSETTE

(DC) [RCI-FSRP]

Model			RCI-1.0FSRP	RCI-1.5FSRP	RCI-2.0FSRP	RCI-2.5FSRP	RCI-3.0FSRP	RCI-4.0FSRP	RCI-5.0FSRP	RCI-6.0FSRP
Indoor Unit Power Supply			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)	m^3/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		m^3	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
Deodorant Air Filter	1.0-2.5 (HP)	F-71L-D1
	3.0-6.0 (HP)	F-160L-D1
Filter Box		B-160H3
ViroSense S filter		- (Standard)

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.

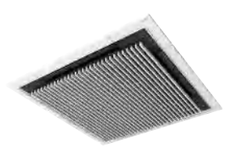
SILENT-ICONIC™ 4-WAY CASSETTE DESIGN PANEL

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







4-WAY CASSETTE

(DC) [RCI-FSKDN1Q]



Model			RCI-1.0FSKDN1Q	RCI-1.5FSKDN1Q	RCI-2.0FSKDN1Q	RCI-2.3FSKDN1Q	RCI-2.5FSKDN1Q	RCI-3.0FSKDN1Q	RCI-4.0FSKDN1Q	RCI-5.0FSKDN1Q	RCI-6.0FSKDN1Q
Indoor Unit Power Supply			AC 1Φ, [220-240V/50Hz] [220V/60Hz]								
Nominal Capacity	Cooling	kW	2.8	4.0	5.6	6.3	7.1	8.0	11.2	14.0	16.0
	Heating	kW	3.2	4.8	6.3	7.1	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	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	238×840×840	288×840×840	288×840×840	288×840×840	288×840×840
Net Weight		kg	20	21	21	22	22	26	26	26	26
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi2/Hi/Me/Lo)	m^3/min	15/13/11/9	21/17/14/11	22/17/14/11	27/23/18/14	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	Φ9.52
	Gas Line	mm	Φ12.7	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	VP25
Approximate Packing Volume		m^3	0.21	0.21	0.21	0.21	0.21	0.25	0.25	0.25	0.25

Decoration Panel		- (Standard)
Receiver kit	Twin-Sense panel	P-AP160NAE2 + OPT-EZJ01
	Basic	HR4A10NEWQ
	Advanced	PC-ALH3

Condensate Drain Pump Kit	- (Standard)
ViroSense S filter	- (Standard)

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.

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)	m^3/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		m^3	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:..... 27.0°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.
3. RCIM-0.6FSRE cannot be connected to HNRQ series.
   Please refer to the technical catalogue for the details.



4-WAY CASSETTE COMPACT

(DC) [RCIM-HBUSQ]

Model			RCIM-0.5HBUSQ	RCIM-0.8HBUSQ	RCIM-1.0HBUSQ	RCIM-1.3HBUSQ	RCIM-1.5HBUSQ	RCIM-1.8HBUSQ	RCIM-2.0HBUSQ
Indoor Unit Power Supply			AC 1Φ, 220-240V/50Hz AC 1 Φ, 220V/60Hz						
Cooling	Nominal Capacity	kW	1.5	2.2	2.8	3.6	4.5	5.0	5.6
		Btu/h	5,100	7,500	9,600	12,300	15,300	17,000	19,100
	Power Input	kW	0.014	0.014	0.014	0.016	0.022	0.03	0.04
Heating	Nominal Capacity	kW	2.0	2.5	3.3	4.2	5.0	5.6	6.3
		Btu/h	6,800	8,500	11,200	14,300	17,000	19,000	21,500
	Power Input	kW	0.014	0.014	0.014	0.016	0.022	0.03	0.04
Sound Pressure Level (Hi2/Hi/Me/Lo/Slo)	Cooling operation	dB	30/29/28/26	30/29/28/26	32/30/28/26	34/32/29/26	38/36/31/28	42/39/36/31	45/42/38/34
Dimension	(H×W×D)	mm	215×570×570	215×570×570	215×570×570	215×570×570	215×570×570	215×570×570	215×570×570
Net Weight		kg	14.5	14.5	14.8	14.8	15.8	15.8	15.8
Refrigerant			R410A						
Air Flow Rate (Hi2/Hi/Me/Lo/Slo)		m^3/min	7.2/6.5/6.2/5.6	7.2/6.5/6.2/5.6	7.8/7.2/6.5/5.8	8.2/7.2/6.5/5.8	9.3/8.7/7.1/6.7	11.0/9.5/8.7/7.1	12.5/10.8/9.3/8.0
Connections		—	Connection Flare-Nut Connection (with Flare Nuts)						
Refrigerant Piping Diameter	Liquid Line	mm(in.)	Ø6.35(1/4)	Ø6.35(1/4)	Ø6.35(1/4)	Ø6.35(1/4)	Ø6.35(1/4)	Ø6.35(1/4)	Ø6.35(1/4)
	Gas Line	mm(in.)	Ø12.7(1/2)	Ø12.7(1/2)	Ø12.7(1/2)	Ø12.7(1/2)	Ø12.7(1/2)	Ø12.7(1/2)	Ø12.7(1/2)
Condensate Drain		—	VP25 (Ø 32)						

Decoration panel	1.0-1.6 (HP)	PHKM50PAQ1
Receiver Kit	Basic	PC-RLHN13QE
Suspension Brackets		(as standard)
Condensation drain pumpeiver kit		(as standard)

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.

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



2-WAY CASSETTE

(DC) [RCD-FSR]

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)	m^3/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		m^3	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

Normal Air 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
ViroSense S filter		- (Standard)

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.



1-WAY CASSETTE

(DC) [RCS-FSR]

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)	m^3/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		m^3	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
Grille 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
ViroSense S filter		- (Standard)

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 in consideration in the field.



1-WAY CASSETTE

(DC) [RCIS-FSKDNQ]

Model			RCIS-1.0FSKDNQ	RCIS-1.3FSKDNQ	RCIS-1.6FSKDNQ	RCIS-2.0FSKDNQ	RCIS-2.5FSKDNQ
Indoor Unit Power Supply			AC 1Φ, 220-240V/50Hz AC 1 Φ, 220V/60Hz				
Cooling	Nominal Capacity	kW	2.8	3.6	4.5	5.6	7.1
		Btu/h	9,550	12,300	15,400	19,100	24,200
	Power Input	kW	0.02	0.03	0.04	0.04	0.08
Heating	Nominal Capacity	kW	3.2	4.0	5.0	6.3	8.0
		Btu/h	11,000	13,600	17,100	21,500	27,300
	Power Input	kW	0.03	0.04	0.05	0.05	0.10
Sound Pressure Level	Cooling operation	dB	32/31/30/29/28/27	37/35/34/32/30/28	41/37/34/33/31/30	40/38/35/33/32/31	46/42/40/37/34/32
	Heating operation	dB	35/34/32/31/29/28	40/36/35/33/30/29	43/39/35/33/31/29	41/39/36/35/33/31	48/46/43/40/37/33
Dimension	(H×W×D)	mm	192×910×470	192×910×470	192×910×470	192×1,180×470	192×1,180×470
Net Weight		kg	19.0	20.0	20.0	24.0	24.0
Refrigerant			R410A				
Air Flow Rate (Hi2/Hi/Me/Lo/Slo)		m^3/h	396/372/336/306/288/276	498/438/408/372/336/306	600/498/408/378/342/312	726/594/528/492/468/396	936/756/672/594/504/426
		cfm	233/219/198/180/170/163	293/258/240/219/198/180	353/293/240/223/201/184	427/350/311/290/275/233	551/445/396/350/297/251
Connections		—	Connection Flare-Nut Connection (with Flare Nuts)				
Refrigerant Piping Diameter	Liquid Line	mm	Ø6.35	Ø6.35	Ø6.35	Ø6.35	Ø 9.53
	Gas Line	mm	Ø12.7	Ø12.7	Ø12.7	Ø 15.88	Ø 15.88
Condensate Drain		—	VP25 (Ø 32)				
Approximate Packing Measurement		m^3	0.19	0.19	0.19	0.24	0.24

Decoration panel	1.0-1.6 (HP)	P-N45SNKQAE
	2.0-2.5 (HP)	P-N71SNKQAE
Receiver kit	Basic	PC-RLHN12QE
Condensate Drain Pump kit		(as Standard)

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 in consideration in the field.



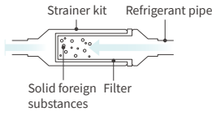
WALL MOUNTED
(DC) [RPK-FSRM]

Type			Expansion Valve built-in type		
Model			RPK-2.5FSRM	RPK-3.0FSRM	RPK-4.0FSRM
Indoor Unit Power Supply			AC 1Φ, [220-240V/50Hz] [220V/60Hz]		
Nominal Capacity	Cooling	kW	7.1	8.0	11.2
	Heating	kW	8.5	9.0	12.5
Sound Pressure Level	(Hi2/Hi/Me/Lo)	dB(A)	45/42/38/35	47/44/40/35	51/48/44/39
Color				White	
Outer Dimension	(H×W×D)	mm	300×1,100×260	300×1,100×260	300×1,100×260
Net Weight		kg	15	15	15
Refrigerant			R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi2/Hi/Me/Lo)	m^3/min	18.5/16.5/14/12	20/17.5/15.5/12.5	23/20/17.5/14.5
Motor			38	38	38
Connections				Flare-Nut Connection (with Flare Nuts)	
Refrigerant Piping Diameter	Liquid Line	mm	Φ9.52	Φ9.52	Φ9.52
	Gas Line	mm	Φ15.88	Φ15.88	Φ15.88
Condensate Drain			VP16	VP16	VP16
Approximate Packing Volume		m^3	0.14	0.14	0.14
Accessory included				Wall Mounting Bracket	

Receiver kit	Advanced	PC-ALHZ1
Strainer kit		MSF-NP112A1

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
(DC) [RPK-HNBUSQ]



Model			RPK-0.8HNBUSQ	RPK-1.0HNBUSQ	RPK-1.3HNBUSQ	RPK-1.5HNBUSQ	RPK-1.8HNBUSQ	RPK-2.0HNBUSQ	RPK-2.3HNBUSQ	RPK-2.5HNBUSQ
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	3.3	4.0	4.5	5.6	6.3	7.1	8.0
Sound Pressure Level	(Hi/Me/Lo)	dB(A)	36/35/33/ 32/30/28	36/35/33/ 32/30/28	38/35/33/ 32/30/28	38/37/36/ 32/31/29	44/42/41/ 38/31/29	40/38/36/ 35/33/31	41/40/38/ 35/33/31	45/42/41/ 38/35/31
Color			White							
Outer Dimension	(H×W×D)	mm	270×815×203	270×815×203	270×815×203	315×915×230	315×915×230	315×1085×230	315×1085×230	315×1085×230
Net Weight		kg	9.0	9.0	9.0	12.5	12.5	14.0	14.0	14.0
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	
Indoor Fan Air Flow Rate	(Hi/Me/Lo)	m^3/min	9.8/9.2/8.7/ 8.2/7.5/7.0	9.8/9.2/8.7/ 8.2/7.5/7.0	10.3/9.2/8.7/ 8.2/7.5/7.0	11.5/11.0/10.3/ 9.0/8.7/8.0	14.3/13.5/12.8/ 11.5/9.0/8.0	16.2/15.0/14.2/ 13.3/12.2/11.5	17.0/16.2/15.0/ 13.3/12.2/11.5	20.0/18.0/17.0/ 15.0/13.3/11.7
Connections			Flare-Nut Connection (with Flare Nuts)							
Refrigerant Piping Diameter	Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53	Φ9.53	Φ9.53
	Gas Line	mm	Φ9.53	Φ9.53	Φ9.53	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88
Condensate Drain			VP16	VP16	VP16	VP16	VP16	VP16	VP16	VP16
Approximate Packing Volume		m^3	0.11	0.11	0.11	0.15	0.15	0.17	0.17	0.17

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.

Specifications & accessories



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]							
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)	m^3/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		m^3	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.



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)	m^3/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	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88
Condensate Drain			VP20	VP20	VP20	VP20	VP20	VP20	VP20
Approximate Packing Volume		m^3	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-63k1
	2.5-6.0 (HP)	DUPC-160K1
ViroSense S filter		- (Standard)

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 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)	m^3/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		m^3	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.



VENTILATION

81 Our ventilation line-up

83 Ventilation Solutions

- 83 All fresh air unit
- 84 Total heat exchanger

85 DX-KIT



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 bacteria 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.

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.

FROM 120 TO 5,000 M^3/H

Fan Air Flow Rate (m^3/h)	120	170	180	250	300	500	750	800	940	1,000	1,080	1,100	1,390	1,600	1,680	1,900	2,000	2,100	2,500	3,000	5,000
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.





ALL FRESH AIR UNIT

Model			RPIA-5.0HNBUSQ	RPIA-8.0HNBUSQ	RPIA-10.0HNBUSQ	RPIA-12.0HNBUMQ
Power Supply			[AC 1Φ, 220V~240V/50Hz] [AC 1Φ, 220V/60Hz]			
Cooling	Capacity	kW	14.0	22.4	28.0	33.5
	Power	kW	0.19	0.31	0.42	0.72
	Nominal Current	A	1.26	1.79	2.35	4.14
Heating	Capacity	kW	13.7	21.9	24.5	26.4
	Power	kcal/h	0.19	0.31	0.42	0.72
	Nominal Current	Btu/h	1.26	1.79	2.35	4.14
Indoor Fan Air Flow Rate	(Hi/Me/Lo)	m^3/h	1,080/940/800	1,680/1,390/1,100	2,100/1,900/1,600	3,000/2,500/2,000
External Pressure		Pa	150(150-200-250)	150(150-200-250)	150(150-200-250)	150(150-220-300)
Outer Dimensions	(H*W*D)	mm	320*1,420*790	484*1,269*1,072	484*1,269*1,072	484*1,269*1,072
Net Weight		kg	55	105	107	107
Sound Pressure Level (Overall A Scale)		dB(A)	42	46	48	49
Liquid Line		mm	ϕ9.53	ϕ9.53	ϕ9.53	ϕ12.7
Gas Line		mm	ϕ15.88	ϕ19.05	ϕ22.2	ϕ25.4
Condensate Drain			VP25, Outer Diameter: Φ32mm			
Operation Temperature Range			Cooling: 20.0°C~43.0°C, Heating: -7.0°C~15.0°C			
Refrigerant			R410A (Nitrogen-Charged for Corrosion-Resistance)			

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 Hitachi Top Flow VRF unit.
   When fresh air processing unit and other indoor units air all connected to the same 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; 12HP class: 50kW
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 RPIA-5.0~12.0.

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-25H-A-GQ1	KPI-50H-A-GQ1	KPI-100H-A-GQ1	KPI-200H-E-GQ1	KPI-500H-E-GQ1
Power Supply				AC 1Φ,[220V/50Hz]			AC 3Φ,[380V/50Hz]	
Enthalpy Exchange Efficiency	Cooling	High	%	63	63	57	56	55
		Medium		63	63	57	-	-
		Low		70	65	59	-	-
	Heating	High		70	69	66	65	60
		Medium		70	69	66	-	-
		Low		75	71	68	-	-
Heat Exchange System			-	Air-to-Air cross flow heat recovery(sensibleheat+potential heat)				
Heat Exchange Part			-	Ventilation high efficiency all-in-one heat exchange core				
Operation Current		High	A	0.75	1.42	4.88	2.59	8.91
		Medium		0.48	0.95	4.30	-	-
		Low		0.35	0.67	3.47	-	-
Input Power		High	W	162	313	1,020	1,550	4,700
		Medium		106	204	900	-	-
		Low		76	140	726	-	-
Fan	Type		-	Multi-blade fan				
	Air Flow	High	m^3/h	250	500	1,000	2,000	5,000
		Medium		170	300	750	-	-
		Low		120	180	500	-	-
	Fresh Air Static Pressure	High	Pa	80	80	165	160	240
		Medium		50	70	120	-	-
		Low		30	40	60	-	-
	Exhaust Air Static Pressure	High	Pa	80	80	165	160	240
		Medium		50	70	120	-	-
		Low		30	40	60	-	-
	Fresh Air Available Pressure	High	Pa	80	80	165	160	308
		Medium		50	70	120	-	-
		Low		30	40	60	-	-
Noise Value (Anechoic Chamber)		High	dB(A)	32.5	38.5	43.0	47.0	56.0
		Medium		28.5	33.5	41.0	-	-
		Low		23.5	26.5	38.0	-	-
Machine Size(H×W×D)			mm	962×220×735	1,112×270×735	1,115×390×1,135	1,550×540×1,400	1,625×1,050×1,330
Package Size(H×W×D)			mm	1,070×330×1,060	1,220×380×1,060	520×1,330×1,210	690×1,710×1,545	1,195×1,800×1,490
Flange Dimension	Fresh(Exhaust)Air Inlet		Mm	Φ144	Φ194	Φ242	320×300	370×330
	Fresh(Exhaust)Air Outlet						320×300	320×300
Net Weight			Kg	42	52	79	172	321
Gross Weight			Kg	50	61	92	177	337
Environmental Conditions Of Use			-	Temperature range:-10.0°C~45°C(DB),85%RH or lower				

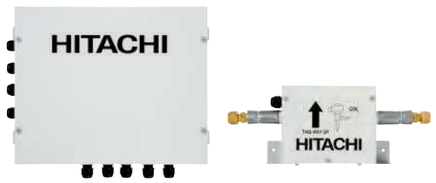
Note:
Please confirm the model name for "wires remote controller" compatible with Total Heat Exchanger to your local distributor.



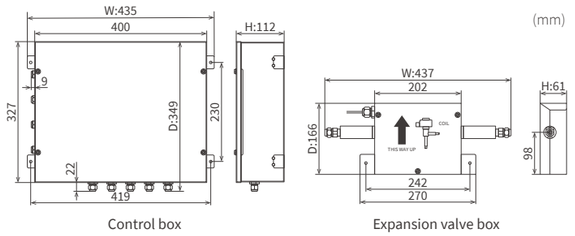
DX-KIT

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





Dimensions



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					

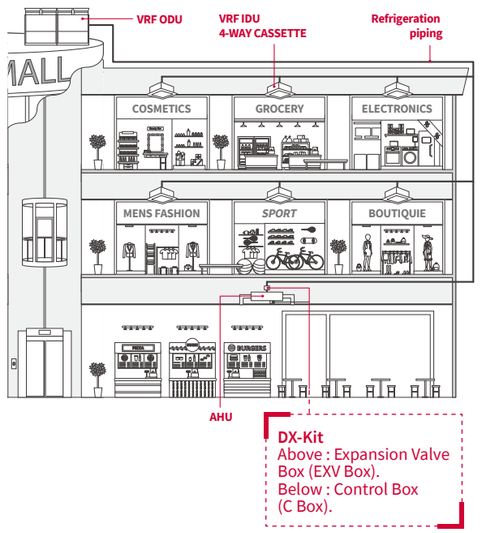
(*1) [Outlet Air Temperature Control] & [Duty Control] are available only in case of connections "1 ODU to 1 AHU" & "1 ODU to 1 AHU(Separate Heat Exchanger Type)".

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 112HP available by DX-Kit combination

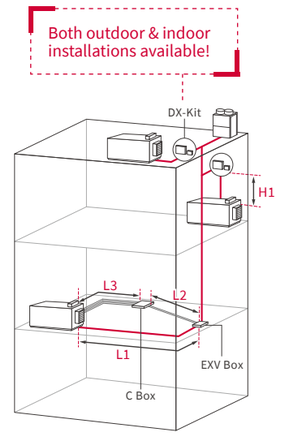
Our DX-Kit can cover from small to large capacity AHU. It can meet any requirement in any application!



② Flexible installation:

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

DX-Kit facilitates system design!



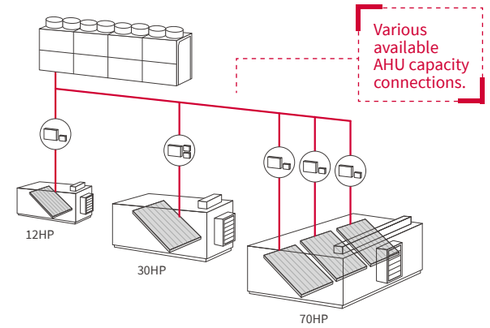
Item		Max (m)
Level difference between AHU Heat Exchanger and EXV Box	H1	2
Piping length between AHU Heat Exchanger and EXV Box	L1	5
Length of control wiring between AHU HeatExchanger and EXV Box	L2	10
Length of the thermistor to AHU Heat Exchanger from C Box	L3	10

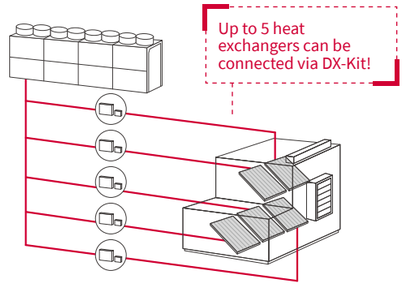
③ 4 examples of configuration:

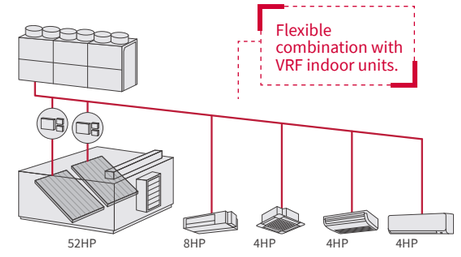
→ 1 VRF outdoor unit + 1 AHU
→ 1 VRF outdoor unit + 1 AHU (external heat exchanger)
→ 1 VRF Outdoor unit + multiple AHUs
→ 1 VRF Outdoor unit + VRF indoor units + AHUs

[Example]

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









CONTROLLERS

89 Centralized controllers

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91 airCloud Pro
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94 Central Station EZ
94 Central Station MINI

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109 H-LINK: enjoy more freedom



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-A128EX3)

- Control capacity: max 2,560 indoor units (+15x Extension Adapter PSC-AD128EX3).
- 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.

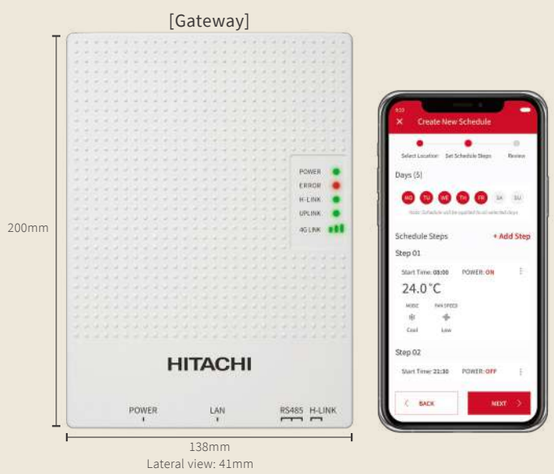
SMALL TO LARGE SYSTEMS & FIXED OR CLOUD-BASED

			airCloud Pro	CENTRAL STATION EX	CENTRAL STATION EZ	CENTRAL STATION MINI
						
			HC-IoTGW	PSC-A128EX3	PSC-A64GT	PSC-A32MN
Capacity comparison	Total Connection capacity	RC group	64 (*6)	2,560 (*1)	64	32
		Group	64 (*6)	2,048 (*1)	64	32
		Block	Unlimited (*7)	512 (*2)	4	2/4/8/16
		Area	Unlimited (*7)	512 (*2)	-	-
		Indoor unit	80 (*6)	2,560 (*1)	160	160
		Outdoor unit	16 (*6)	1,024 (*1)	64	64
	Building scale		Small to Large	Large	Medium	Small
	Operation		Web + Mobile Phone	Touch screen + Web	Touch screen	Touch screen
Display	Operation panel size options		Adaptive	7	2	3
	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	16	10	10
	Special day setting		5	5	-	-
	Holiday setting		-	●	-	-
	Annual/Summer/Winter schedule		Future Version	●	-	-
Other function	Alarm history (records number)		Unlimited	10,000	100	100
	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	-	-
	Individual WRC clock synchronization		-	●	-	-
IoT Functions	Connectivity		Ethernet + 4G (*9)	-	-	-
	Future Extendability		Firmware OTA (*10) Web + Mobile Update	-	-	-

(*1) One Extension Adapter (PSC-AD128EX3) 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.

airCloud Pro

[Gateway]



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 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.



Recommended facilities (examples.)



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

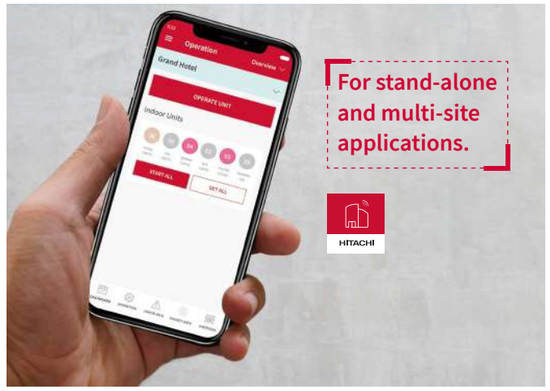
With updates and new features added regularly, airCloud Pro ensures you are always up to date.



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

*1 Confirm compatibility of your VRF installation with your Hitachi Cooling & Heating representative.

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



✓ 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

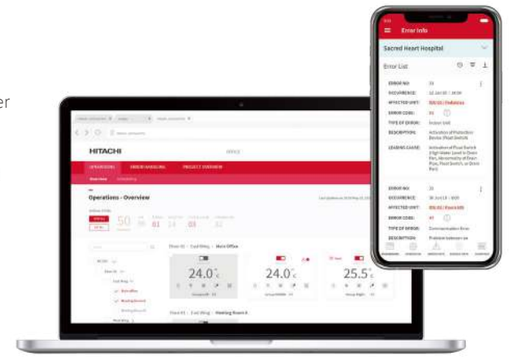
The pilot app makes managing your VRF systems easy.

- **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 graphs 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.

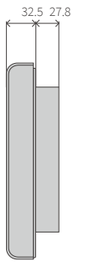
Minimal personal details:
Only your name, email address and phone number are required for login.

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

CENTRAL STATION EX FOR LARGE-SCALE BUILDINGS

(PSC-A128EX3)





For middle or large-scale 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-AD128EX3).

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-AD128EX3

(*1) 1 extension adapter (PSC-AD128EX3) 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*



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

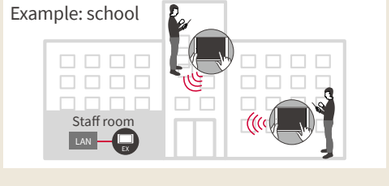
Functions

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.

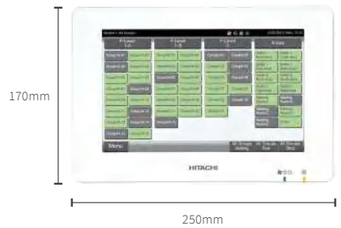
Remote access.

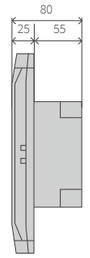
You can now operate Central Station EX from your laptop PC or touch panel PC.
Install our software and you can connect from anywhere, using our VPN network.



CENTRAL STATION EZ FOR MEDIUM-SCALE BUILDINGS

(PSC-A64GT)





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

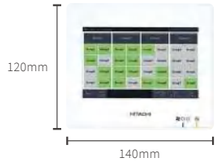
Functions

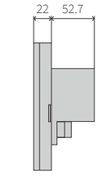
Monitor Function	• Run/Stop/Abnormality • Setting Temperature • RC Operation Prohibited Setting • Accumulated Operating Time • Operation Mode • Setting Fan Speed • Setting Louver • Filter Sign • Alarm Code
Control Function	• Run/Stop* • Fan Speed • Operation Mode • Louver • Temperature Setting • RC Operation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





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.

A new generation of room controller now available!

With two new room controllers, the experience of controls has become easier and more stylish than ever

ADVANCED-COLOR CONTROLLER
(PC-ARFG2-*)



Contactless settings via airCloud Tap

Complete controls in a rich interface
- Colored screen displaying visual charts and descriptive texts
- Access to all existing Hitachi VRF indoor unit features including user features settings, installation & maintenance features settings.
- Energy consumption monitoring
- Ideal for indoor units with motion sensors, cassettes with elevating grilles
- Multiple languages available

*Except Sleep Mode timer

ECO-COMPACT CONTROLLER
(PC-ARC-*)



Contactless settings via airCloud Tap

Value without compromise
- Segment screen displaying pictograms
- Essential controls in a glimpse
- On/Off weekly schedule
- Some extra advanced features such as GentleCool, Power-Saving Peak-Cut mode and Sleep Mode Timer
- Embedded IR receiver, ideal for ducted units

Still available for order

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.

Controls from anywhere in the room

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.

NEW WIRELESS REMOTE CONTROLLER
(PC-LH8QE)



- Backlight screen available
- Several temperature units and settings available; 0.5°C/1.0°C/1.0°F
- Ideal for controlling the unit from anywhere e.g. residential spaces.

From basic to advanced controls

			ADVANCED-COLOR CONTROLLER	ECO-COMPACT CONTROLLER	WIRED REMOTE CONTROLLER	WIRELESS REMOTE CONTROLLER	WIRELESS REMOTE CONTROLLER
							
			PC-ARFG2	PC-ARC	HCWA10NEGQ	PC-AWR	NEW PC-LH8QE
Connection Capacity		No of RC-Group	1	1	1	-	-
		No of indoor units	16	16	16	-	-
Product Size	Width*Height*Depth (mm)		120×120×16.5 (D: thinnest part)	90x90x15.5 (D: thinnest part)	88×88×15.5	140×55×16.8	180×48×22.2
Screen			Color LCD with backlight	Segment LCD with backlight	Segment LCD with backlight	Segment LCD	Segment LCD with backlight
Embedded IR receiver			-	●	-	-	-
Smartphone App	Use With airCloud Tap		● (support NFC)	● (support NFC)	-	-	-
Essential Operations	Run / Stop		●	●	●	●	●
	Operation Mode		●	●	●	●	●
	Auto Mode Setting		●	●	●	●	●
	Temperature Setting		●	●	●	●	●
	Fan Speed		●	●	●	●	●
	Louver Direction		●	●	●	●	●
Advanced Feature Settings	Simple Timer		●	● (On/Off Timer)	● (On/Off Timer)	● (On/Off Timer)	● (On/Off Timer)
	Weekly Operation Schedule		●	●	●	-	-
	Power Savings Setting		●	● (Capacity Control only)	-	-	-
	Night Quiet Operation		●	-	-	-	-
	Power Savings/Night Quiet Schedule		●	-	-	-	-
	Power Consumption Display		●	-	-	-	-
	AutoBoost		●	●	-	-	-
	Comfort Setting		●	● (GentleCool only)	-	-	-
	Sleep Mode		-	●	-	-	-
	Motion Sensor Setting (1)		●	-	-	-	-
	Setback Setting		●	-	-	-	-
	Elevating Grille		●	-	-	-	-
	Filter Reminder Time Reset		●	●	●	●	●
	Filter Auto-Cleaning (1)		●	-	-	-	-
	Individual Louver Setting		●	●	●	-	-
	Louver Open/Close		●	-	-	-	-
	Ventilation		●	-	-	-	-
	Total Heat Exchanger SET		●	-	-	-	-
Display Settings	Adjusting Date/Time		●	●	●	-	-
	Daylight Saving Time		●	-	-	-	-
	Run Indicator Brightness Adjustment		●	● (Only On/Off setting)	-	-	-
	Display Adjustment		●	-	-	-	-
	Temperature Units (°C/°F)		●	●	●	●	●
	Temperature setting at 0.5°C step		●	●	●	●	●
	Room Temperature Display		●	●	●	-	-
	Language available		EN, JPN,CN (traditional &simplified),FR, ES,PT	EN	EN	EN	EN
	Keypad Touch Sound		●	●	● (Cannot turn off)	-	-
Service Functions	Lock Function		●	● (Lock function individually)	● (Lock whole keypad)	-	-
	Password Setting		●	-	-	-	-
	Hotel Mode		●	-	-	-	-
	Power Saving Details Setting		●	-	-	-	-
	Temperature Range Restriction		●	● (in Function Selection)	● (in Function Selection)	-	-
	Dual Setpoint		●	-	-	-	-
	Main/Sub Display		●	-	-	-	-
	Set Room Name		●	-	-	-	-
	Set Contact Information		●	-	-	-	-
	NFC Setting		●	●	-	-	-
	Simple Maintenance Check Menu		●	-	-	-	-
Installation Functions	Test Run		●	●	●	-	●
	Function Selection		●	●	●	-	-
	Thermistor Selection		●	● (in Function Selection)	● (in Function Selection)	-	-
	Input/Output		●	●	●	-	-
	Thermistor Calibration in Controller		●	● (in Function Selection)	-	-	-
	Fan Speed At Thermo-Off		●	● (in Function Selection)	● (in Function Selection)	-	-
	Indoor Unit Address Change		●	●	●	-	-
	Address Check Operation		●	-	-	-	-
	Address Initialization		●	-	-	-	-
	Setting Initialization		●	●	-	-	-
	Main/Sub Controller Setting		●	●	●	-	-
	Priority Setting		●	-	●	-	-
	Cancel Preheating Control		●	-	-	-	-
	Elevating Grille Setting		●	-	-	-	-
	Power Up Setting		●	-	-	-	-
	Setback Trigger Unit		●	-	-	-	-
	Refrigerant Leak Sensor Setting		●	-	-	-	-
Check Menu	Check 1		●	●	●	-	-
	Check 2		●	●	●	-	-
	Alarm History Display		●	●	●	-	-
	Display Model Number		●	-	-	-	-
	Check PCB of the Units		●	-	-	-	-
	Self Check		●	●	-	-	●
Other features	Synchronize Date/ time with Central Controller		● (Only available from Central Station EX PSC-A128EX3)	● (Only available from Central Station EX PSC-A128EX3)	-	-	-
	Stop operation delay		●	●	-	-	-
	Emergency operation		●	●	-	-	-
	Two WRC Control		●	●	-	-	-
	Alarm Display		●	●	●	-	-
	Filter cleaning reminder sign display		●	●	●	-	-

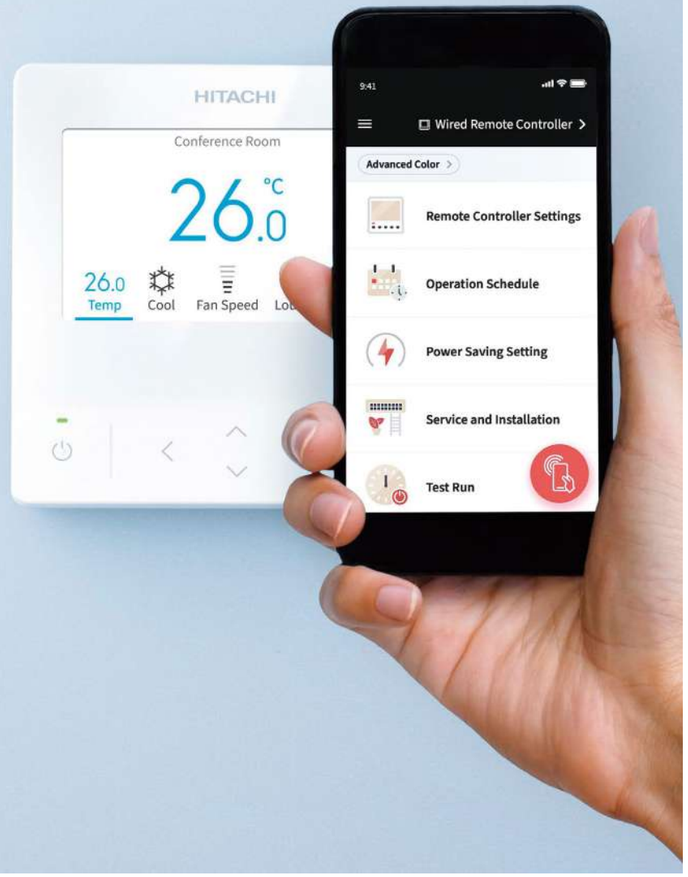
(*1) Available when the controller is connected with selected indoor unit offering this feature.

Download
airCloud Tap!

airCloud Tap

HITACHI airCloud Tap

For HVAC professionals:
Quicker commissioning & service by airCloud Tap Contactless 'read and write' settings



Ready-to-tap controllers

- NFC chip embedded in the controller

Convenience using with a mobile app

- Easy browsing of all settings by scrolling phone's screen
- Complete text description of each setting

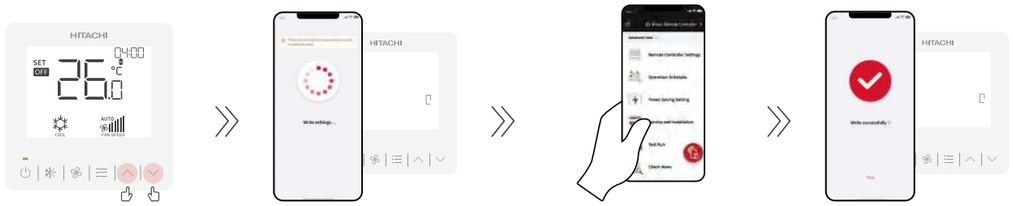
More savvy than traditional settings by physical device

- Less buttons to press, no AC hardware to manipulate
- Time saving setting process
- Reduced need of documentation support

Save time on multi-room commissioning

- Specify settings for one room, save them, then apply these settings to other similar rooms in one tap. Particularly useful for multiple zones with similar needs! Hotel guestrooms, office meeting rooms, condominium units, etc.

How does airCloud Tap works?



1. Activate the NFC function on the AC equipment.
2. Open the airCloud Tap app and tap the AC equipment with your phone to read the current settings.
3. Edit the desired settings on your phone.
4. Tap again your equipment to apply the new settings.

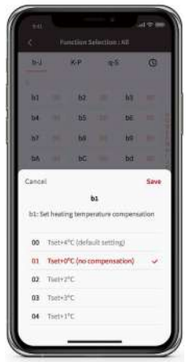
What you can do with airCloud Tap | some highlights:

Installation & Commissioning



Date/time setting

import the date & time from your phone into the controller



Function selection

Scroll your phone's screen and browse over 140 commissioning settings available

Operation



Scheduling

Save preferred AC schedule and save to copy to other controllers of the same building

Maintenance & Service



Troubleshooting

Visualize all the service check data on your phone



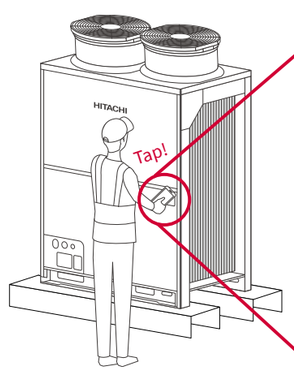
Temperature range restrictions

Apply min/max set temperature to prevent excessive cooling/heating

Instant data check with your smartphone!

Maximize your servicing and maintenance efficiency with airCloud Tap, effortlessly accessing key information without the need for tools or manual checks. Say goodbye to the hassle of deciphering DWP/PSW codes and connecting to PCs—

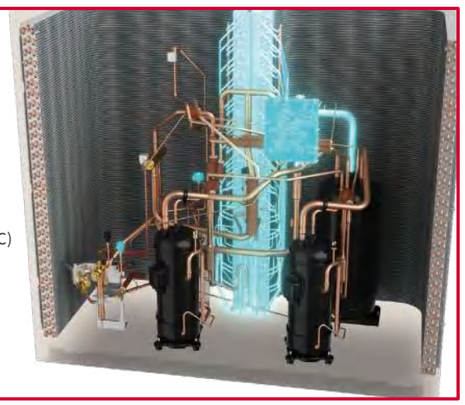
Get instant access to vital data for swift checkups and seamless operations, such as,,,



One action "TAP"

You can easily get multiple information

- Inverter Frequency(Hz)
- Air Flow FAN Tap
- Expansion Vale Opening(%)
- High Pressure (MPa)
- Low Pressure (MPa)
- Compressor Top Temperature (°C)
- TdSH (°C)
- Evaporating Temp1 (°C)
- Heat Exchanger Liquid Pipe Temperature (°C)
- Compressor Run Time (hr) .....



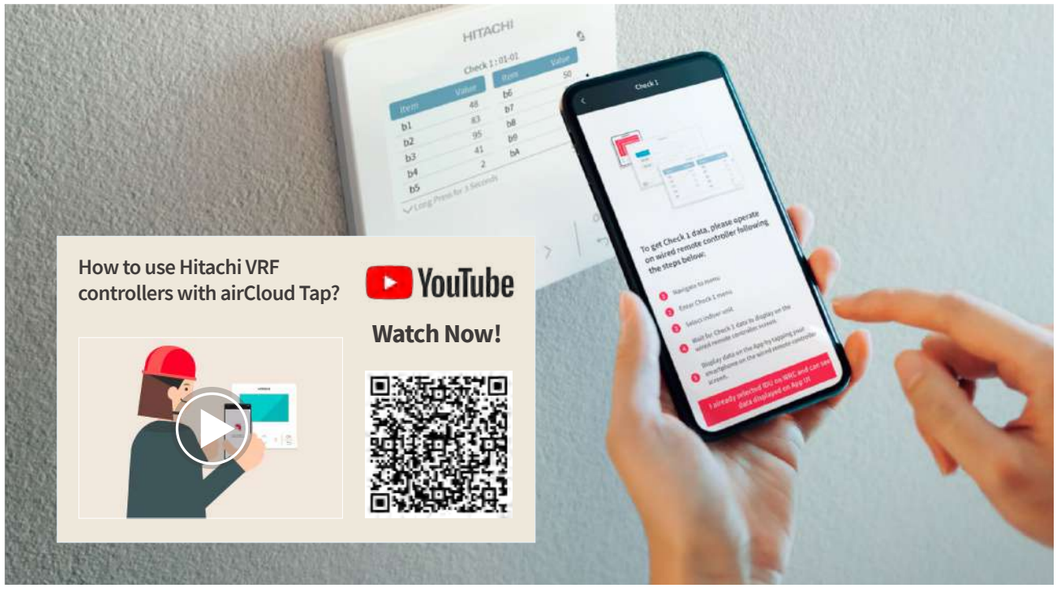
airCloud Tap

What you can do with airCloud Tap **wired room controllers**

Home Menu	Function Menu	Read(R) / Write(W)	Advanced Color Wired Remote Controller	Eco-Compact Wired Remote Controller
Remote Controller Settings	Room Name	R/W	✓*1	×
	Date/Time		✓	✓
	Language		✓	×
	Temperature unit °C/°F		✓	✓
	Run Indicator Brightness		✓	×
Operation Schedule	Schedule		✓	✓
	Operation Schedule		✓	✓
	Holiday Setting		✓	×
	Reset All		✓	✓
Power Saving Setting	Power Saving Setting		✓	✓
	Power Saving Detailed Settings		✓	×
Service & Installation	Function Selection		✓*2	✓*2
	External Input/output		✓*2	✓*2
	Contact Information		✓*1	×
	Hotel Mode		✓	×
	Temperature Range Restriction		✓	✓
	Dual Setpoint		✓	×
	Main/Sub Display		✓	✓
	Thermistor Selection		✓	✓
	Thermistor Calibration in Controller		✓	✓
	Auto-Restart: auto turn ON (d1)		✓*2	✓*2
	Auto-Restart: follow latest status from before outage (d3)		✓*2	✓*2
	Hi Fan Speed (C5)		✓*2	✓*2
	Lock Function		✓	✓
	Fan Speed at Cooling Thermo-OFF		✓*2	✓*2
	Fan Speed at Heating Thermo-OFF		✓*2	✓*2
	Cancel preheating control	W	✓	×
	Power Up	R/W	✓	×
Test Run	Mode	W	✓	✓
	Test Time		✓	✓
	Start/Stop Test Run		✓	✓
Check Menu	Alarm History	R	✓	✓
	Product Info *5		✓	✓
	Check 1		✓*3	✓*3
	Check 2		✓*3	✓*3
	Check PCB of the Units		✓*4	×
Saved Settings	Edit Saved Settings	–	✓	✓
	Write Copied Settings	W	✓	✓
Side Menu	User Profile	–	✓	✓
	Display Unit	–	✓	✓
	Language Selection	–	✓	✓
	Record file	–	✓*5	✓*5

Key
*1. Only English and numbers can be registered.
*2. If multiple indoor units are connected, individual settings are not possible.
*3. Selection of the indoor unit on the Check Menu screen on the Wired Remote Controller is required.
*4. Selection of the indoor unit on the result of check PCB of the units on the Wired Remote Controller is required.
*5. May not work with some Samsung Galaxy phone models

airCloud Tap with PC-ARFG2



airCloud Tap with PC-ARC



ADVANCED COLOR WIRED REMOTE CONTROLLER (PC-ARFG2)

Simplicity with style

Combining the best of form and function, enjoy climate control made easy with Hitachi's most advanced wall controller yet.

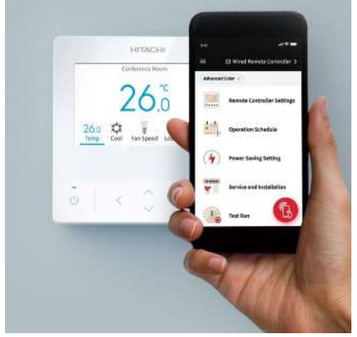


- Super user-friendly interface
- Easy-to-navigate menus
- Available in 7 languages
- Pictograms and colors for an optimal user experience

Award-winning design

- Minimalist design aesthetic
- Distinctive curves for ergonomics
- Modern and subtle colors

With **Near-field communication (NFC) contactless-enabled system** commissioning via the airCloud Tap smartphone app, you can now save, copy, and paste settings to the Advanced Color Controller with a simple tap.





1 Room name
2 Set temperature
3 Operation mode
4 Indoor unit ON/OFF light
5 Indoor unit ON/OFF
6 Navigation buttons
7 Back button
8 OK button
9 Fan speed
10 Louver direction
11 Access to menu
12 Filter cleaning reminder

Outer dimensions (H×W×D)

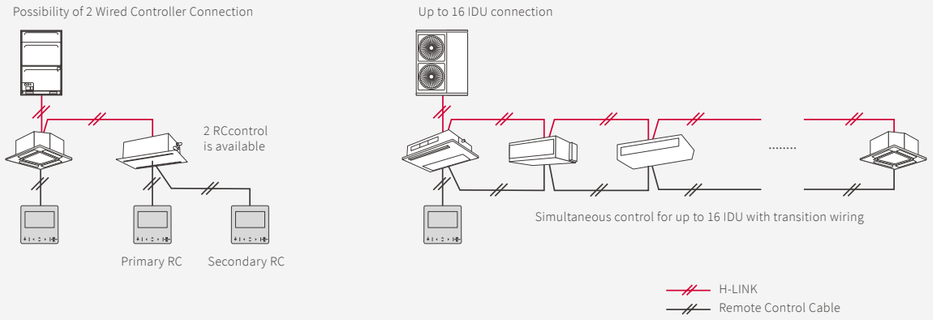
120×120×16.5mm (thinnest part)
120×120×21.5mm (thickest part)

Capacity

Power Supply	Powered by indoor unit, 15VDC±10%
	180g (approx.)
Installation	Indoor, on the wall or switch box
Connection capacity	Up to 16 indoor units (with the same wired remote controller)
▲ Display	When two wired Advanced Controller units are connected to the same indoor unit, the maximum brightness of each controller will be halved

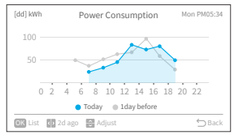
* H is the height of the unit from the front, without the protrusion at the bottom.

System configuration example

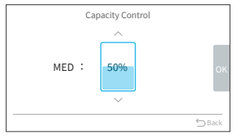


Energy optimization

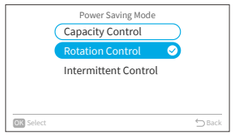
Power-saving features enable VRF system operators to optimize energy usage



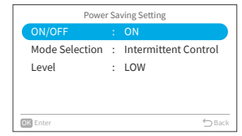
Energy consumption visualization



Capacity – peak cut control



Choice of power-saving method

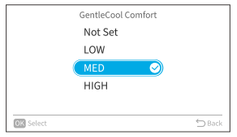


Power saving setting

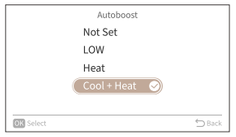
Set specific schedules for features like peak capacity cuts and the thermal operation rotation of indoor units, enabling you to match energy-saving operation hours with your utility tariffs plan. Building managers can also set the minimum and maximum temperature range for occupants and visualize energy consumption with daily, weekly or monthly comparison options.

From basic to advanced functions

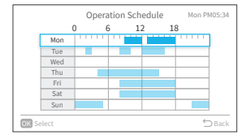
Users can control the main temperature settings from Advanced-Color controller's main screen. In addition, more advanced comfort settings help customizing the air to their occupants' specific needs.



GentleCool limits the temperature of conditioned air, preventing cold drafts for optimal comfort.

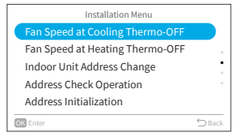


AutoBoost automatically activates for 30 minutes every time the AC is turned on, helping the room reach the desired temperature faster.

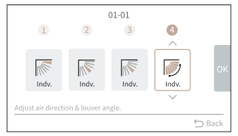


AC Scheduling is easier than ever, thanks to flexible features such as the holiday calendar.

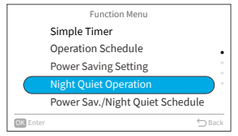
The latest VRF features



Fan speed at thermo-off reduces air circulation when cooling or heating is not effective.



Individual **4-way cassette louvers** optimizes air flow direction to each corner layout.



Schedule **Night Quiet** mode to minimize the outdoor unit's operation noise so you and your neighbors get a better night's sleep.

Special features for hotels

Hotel mode enables instant access to the functions demanded most by hotel guests. After guests check out, housekeeping can reset the controller in one touch. **Hotel setback** allows interlocking with hotel key cards. When the room is vacant, the indoor unit switches to a selected energy-saving setback temperature, ensuring the room remains at a comfortable temperature when unoccupied.



Ideal for indoor units with motion sensor features

Active intelligent comfort features connected to your indoor unit's motion sensor and/or radiant sensor: choice of direct/indirect air flow, **FeetWarm, FloorSense Cool** and the exclusive **Crowd-Sense** to prevent heat peak from rapid crowd arrival.

ECO-COMPACT CONTROLLER (PC-ARC-*)

Climate control in a compact size

- Great value for money that combines the best of form and function.
- Minimalist design aesthetic that reflects Hitachi's Duality Design philosophy.



- Budget-sensitive VRF projects
- Users who prefer simple controls
- Functional spaces

Stylish & Intuitive

With distinctive curves and an aesthetic inspired by Hitachi's Duality Design philosophy, the Eco-Compact Controller is stylish, ergonomic, cost-effective, and convenient.
Enjoy climate control made easy through an optimized interface with easy-to-understand pictograms for a truly intuitive user experience.

With Near-field communication (NFC) contactless-enabled system commissioning via the airCloud Tap smartphone app, you can now save, copy, and paste settings to the Eco-Compact Controller with a simple tap.





1 Set Temperature
2 Operation mode
3 Run indicator
4 On/Off button
5 Operation mode button
6 Fan speed button
7 Menu buttons
8 Directional key
9 Fan speed
10 Louver direction
11 Current time

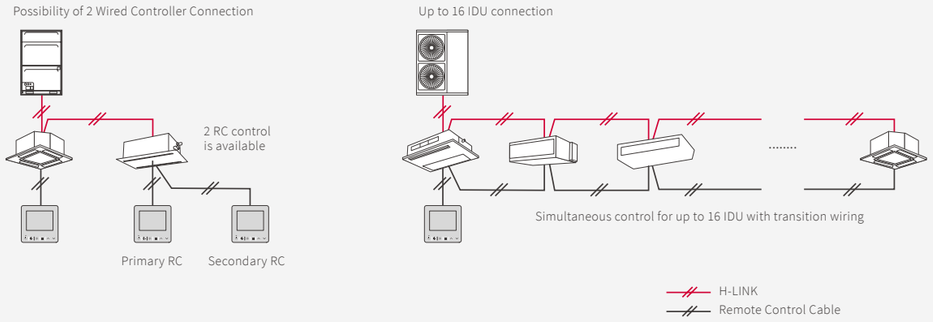
Outer dimensions (H×W×D)

90mm×90mm×15.5mm(thinnest part)
90mm×90mm×18.5mm(thickest part)

Capacity

Power Supply	Powered by indoor unit, 15VDC±10%
	100g (approx.)
Installation	Indoor, on the wall or switch box
Connection capacity	Up to 16 indoor units (with the same wired remote controller)

System configuration example

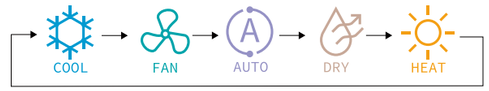


Easy access to essential controls

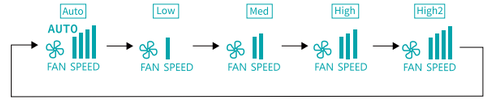
Simplified navigation enables users to change temperatures and adjust essential controls directly from the home screen in one touch.



Set temperature with 0.5°C precision*



Operation modes



Fan speed



Louvers' positions

Energy-saving features

The Eco-Compact Controller includes energy-saving features to minimize unnecessary AC operation.

The **Peak-Cut** feature enables users to save even more energy during peak consumption periods.

ON OFF

Weekly scheduling automatically turns the indoor unit on/off at set times, great for classrooms, retail businesses or other premises with regular opening hours.

Accrued comfort

The Eco-Compact Controller includes energy-saving features to minimize unnecessary AC operation.

Low Med High

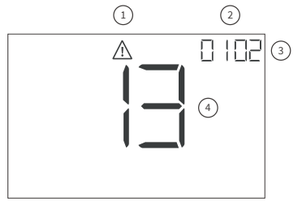
Include **GentleCool**, which controls the discharged air temperature for a smooth cooling down and prevents cold drafts.

AUTO

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, which is ideal for meeting rooms and other areas requiring fast temperature reach.

Supports easy maintenance

A filter symbol appears when it's time to clean the filter. In the event of an error, the error code and the related indoor unit number is clearly displayed for ease of maintenance.



1. Alarm Icon
2. Indoor Unit No.(Refrigerant system)
3. Indoor Unit No.(Refrigerant system)
4. Alarm Code

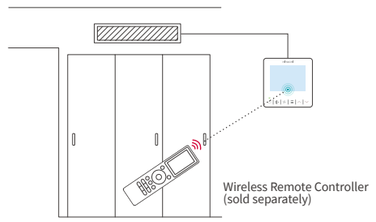
Special features

For residential users:
set the Sleep mode timer to gradually change the room temperature for a better night's sleep. The unit will turn off automatically after a set time.

For hotels:
interlock the Eco-Compact Controller with your hotel key card receiver and activate setback temperature while guest is away.

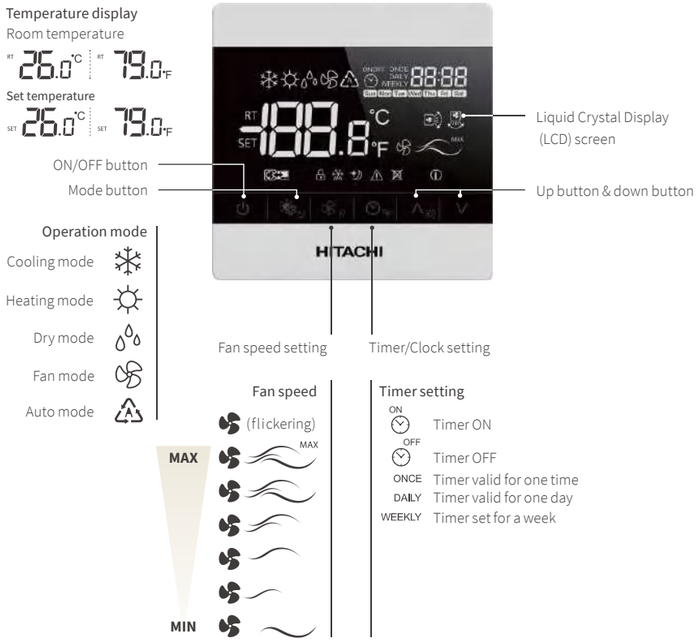
Embedded IR receiver

For use with the Wireless Remote Controller. Ideal for indoor units without embedded IR receiver (ex: ducted units)



When IR receiver receives the commands, the buzzer sounds.
*Compatible PC-LH8QE wireless controllers

WIRED REMOTE CONTROLLER (HCWA10NEGQ)



Outer dimensions (H×W×D)
(mm) 88.0×88.0×15.5

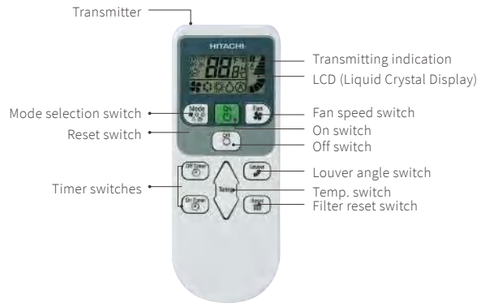
Functions

Setting	Run/Stop
	Operation Mode
	Auto Mode Setting
	Temperature Setting
	Temperature Setting Rate 0.5°C/1.0°C/1.0°F
	Fan Speed 3/4/6 taps
	Louver Direction
Service	Sensor Condition Check
	Sensor Data Check
	Alarm History Display
Test Run	Test Run
	Function Selection (Optional Function Setting)
	Thermistor Selection
	Thermistor Calibration
	Input / Output Setting
	Indoor Unit Address Change
Management	key pad lock
	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.



WIRELESS REMOTE CONTROLLER (PC-AWR)



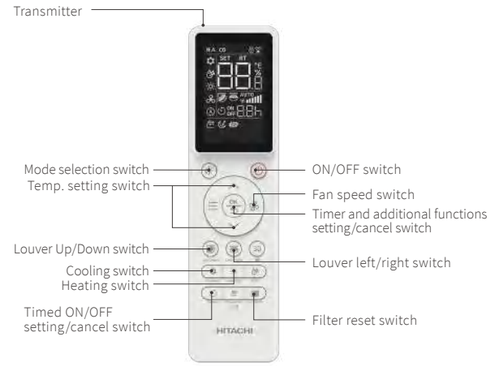
Outer dimensions (H×W×D) (mm) 140.0×55.0×16.8

Functions

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

NEW

WIRELESS REMOTE CONTROLLER (PC-LH8QE)



Outer dimensions (H×W×D) (mm) 180.0×48.0×22.2

Functions

Setting	Run/Stop
	Operation Mode
	Auto Mode setting
	Temperature Setting
	Temperature Setting Rate 0.5°C/1.0°C/1.0°F
	Fan speed 3/4/6 Taps
	Louver direction
	Temperature Unit °C/°F
Service	Filter sign reset
	Side-by-side indoor unit identification
Schedule	Built-in Timer (On/Off)
Test Run	Test Run

RECEIVER KIT FOR WIRELESS REMOTE CONTROLLER

Model	Indoor unit	Wireless Remote Controller PC-AWR	Wireless Remote Controller PC-LH8QE
PC-RLH11 (Basic) 	Ducted High ESP (AC Motor) RPIH-HNAUN1Q RPI-FSNQ	○	○
	Ducted High ESP (DC Motor) RPIH-HNDUSQ	○	○
	Ducted Medium ESP (AC Motor) RPIM-HNAUN1Q RPI-FSN3Q	○	○
	Ducted Low ESP (AC Motor) RPIL-HNAUN1Q	○	○
	Ducted Compact AC Motor RPIZ-HNATN1Q	○	○
	Ducted Compact DC Motor RPIZ-HNDTS1Q	○	○
	Wall-Mounted (DC Motor)*1 RPK-HNBUSQ	○	○
	Floor / Ceiling Convertible (AC Motor)*1 RPFC-FSNQ	○	○
	Floor Concealed (AC Motor) RPFI-FSNQ	○	○

Model	Indoor unit	Wireless Remote Controller PC-AWR	Wireless Remote Controller PC-LH8QE
HR4A10NEWQ (Basic)	4-way Cassette (DC Motor) RCI-FSKDN1Q	○	○
PC-ALH3 (Advanced) 	4-way Cassette (DC Motor) RCI-FSRP	○	–
PC-ALHC1 (Advanced) 	4-way compact Cassette (AC Motor) RCIM-FSRE	○	–
	4-way compact Cassette (DC Motor) RCIM-FSN4	○	–
PC-RLHN13QE (Basic) 	4-way compact Cassette (DC Motor) RCIM-HBUSQ	–	○
P-AP56NAMR (Advanced) 	4-way compact Cassette (AC Motor) RCIM-FSRE	○	–
	4-way compact Cassette (DC Motor) RCIM-FSN4	○	–
PC-ALHD1 (Advanced) 	2-way Cassette (DC Motor) RCD-FSR	○	–
PC-ALHS1 (Advanced) 	1-way Cassette (DC Motor) RCS-FSR	○	–
PC-RLHN12QE (Basic) 	1-way Cassette (DC Motor) RCIS-FSKDNQ	–	○
PC-ALHP1 (Advanced) 	Ceiling Suspended (DC Motor) RPC-FSR	○	–

(*) Basic function receiver kit is installed as a standard part in this wall-mounted unit. Wireless remote controller (PC-LH8QE) 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].
(*1) Wall-mounted (RPK-HNBUSQ) and Floor-Ceiling convertible (RPFC-FSNQ) have a receiver kit embedded inside the unit. If you need to relocate it to the wall, you will need to purchase an external receiver kit.

Notes:
When using a basic receiver kit PC-RLH11 or HR4A10NEWQ together with wireless remote controller PC-LH8QE:
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)

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]

Accessories



3P CONNECTOR CABLE PCC-1A

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

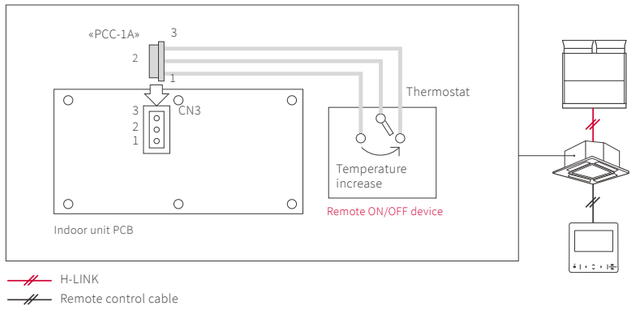
Operation example

- 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





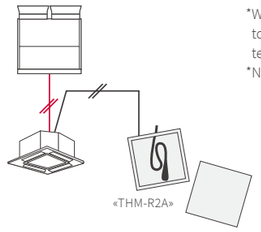
REMOTE SENSOR THM-R2A

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.

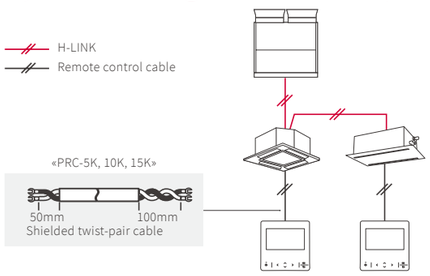


REMOTE CONTROL CABLE PRC-5K, 10K, 15K

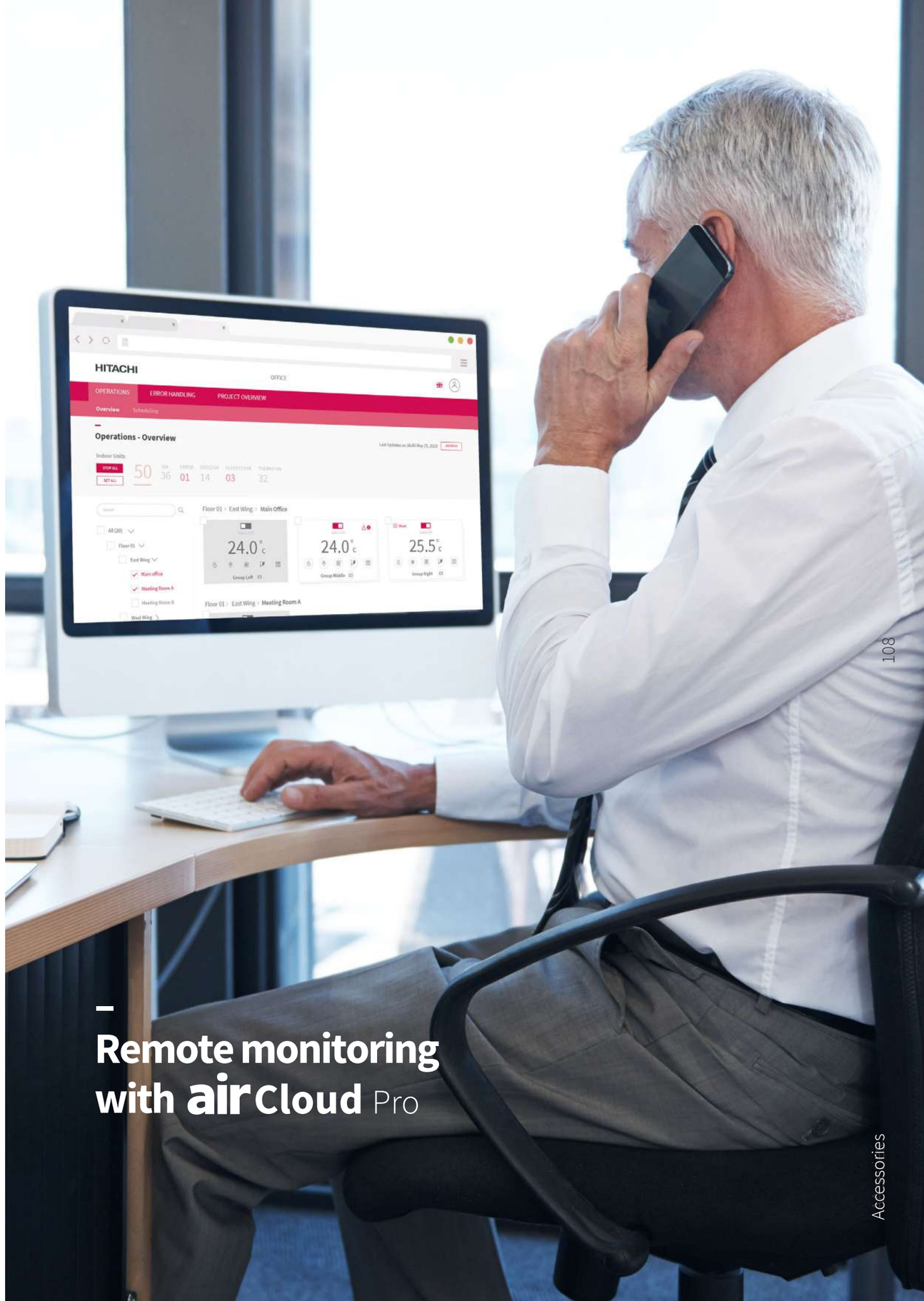
FOR PC-ARFG2 CONNECTION (TO IDU)

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

System configuration example



*PC-ARFG2 does not include a remote control cable. Use this cable if you don't have one available in your field.



Remote monitoring with airCloud Pro

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.

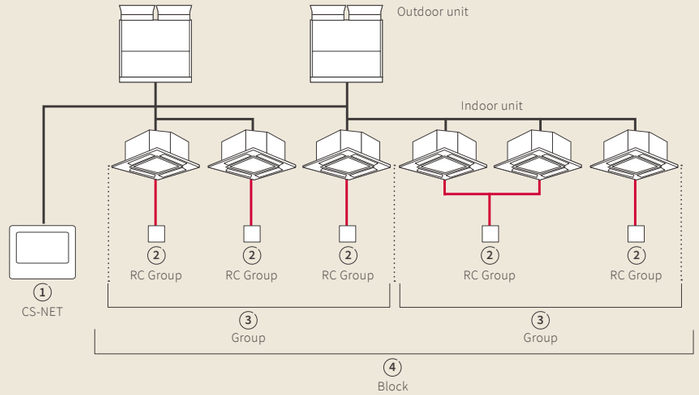
3x more benefits!

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



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.

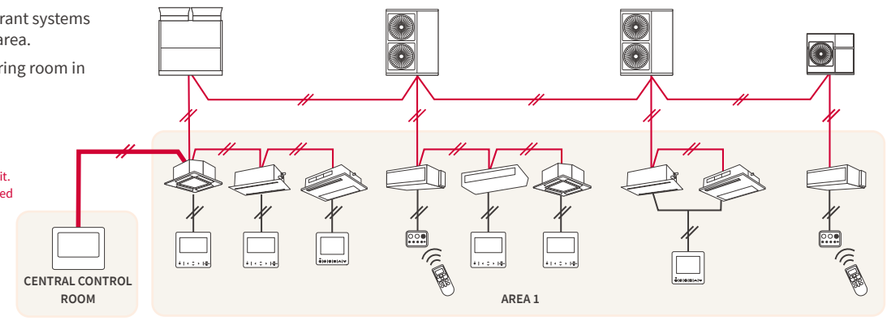
③ Group
→ Stands for the multiple "RC groups" that are registered in the centralized controller network setting.

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

CENTRALIZED CONTROLS: FLEXIBLE WIRING ROUTE!

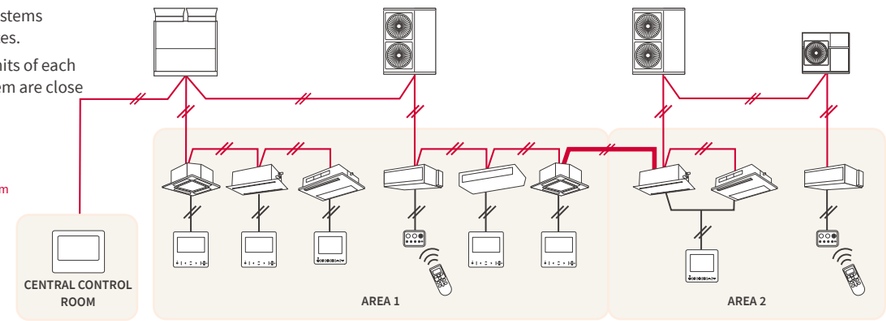
(1) • Multiple refrigerant systems located in one area.
• Central monitoring room in separate area.

H-LINK SOLUTION
→ Wire the central station to the closest indoor unit.
→ Wiring distance is reduced substantially.



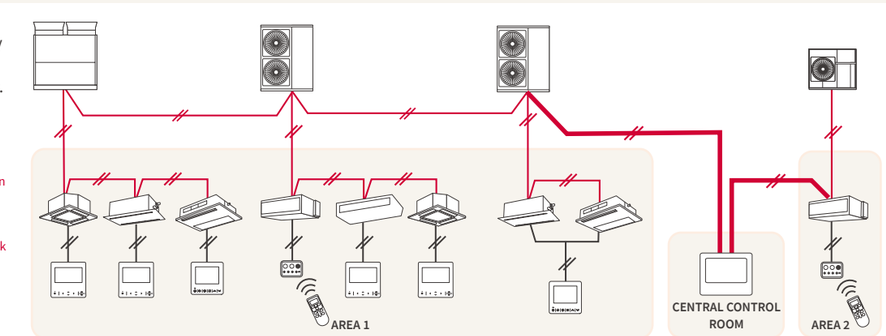
(2) • Refrigeration systems in different places.
• Some indoor units of each respective system are close to one another.

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.



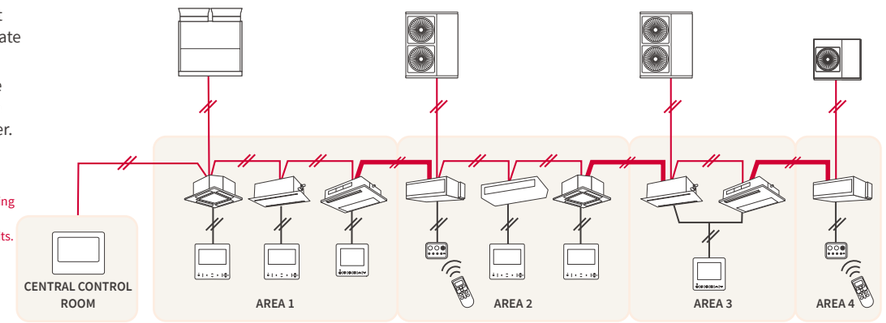
(3) • One refrigerant system far away from the remaining ones.

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.



(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.



H-LINK solution H-LINK Remote control cable