

# SET FREE Σ

VARIABLE REFRIGERANT FLOW

AIR SOURCE HEAT PUMP FOR HIGH AMBIENT REGION

JNBBQ series



## Johnson Controls-Hitachi Air Conditioning

### CUSTOMER SERVICE

XXXXXXXXXXXXXXXX  
XXXXXXXXXXXXXXXX

### SALES OFFICE

XXXXXXXXXXXXXXXX  
XXXXXXXXXXXXXXXX

### SPARE PARTS

XXXXXXXXXXXXXXXX  
XXXXXXXXXXXXXXXX

### DISTRIBUTOR

XXXXXXXXXXXXXXXX  
XXXXXXXXXXXXXXXX

### CERTIFICATION

### WARRANTY

### SOCIAL MEDIA

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Cooling & Heating



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## Design for tomorrow's urban spaces.

Spaces in our cities are under increasing pressure. Urban areas demand landscape preservation, and also require space efficiency. The SET FREE  $\Sigma$  outdoor units have a simple yet stylish design that does not mar the urban appearance. At the same time, since the powerful and compact unit runs multiple indoor units, it meets urban needs and the expectations of users who are concerned about the appearance of their surroundings.



## 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 line-up of indoor units can match various comfort requirements.



# Your world and Hitachi

## Live within a climate of your own making

Air ... To us it is something that is taken too much for granted. So much so, that we can even forget it exists. Nevertheless, air is so essential that we could not go on living without it. We believe that the ability to control the air indoors to our own liking, no matter what the environment outdoors, is a truly wonderful thing. We want to create pleasant spaces of Living Harmony everywhere, for people all over the world. With this thought in mind, we shall continue to produce technology that assures people can lead lives of comfort, safety and security.

## You are in control.

We provide a range of individual controllers to match your needs: both wireless and wired, and from advanced to simple. To manage energy and maintenance costs, our centralized controllers range from small to large. Select according to your needs, to enable your control.



# 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"
- 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](http://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  $\Sigma$

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



Owing to three types of outdoor unit with enhanced design and performance, we intelligently meet the requirements of various buildings as regards scale and construction, as well as air-conditioning needs. We believe that the paths to comfortable living all begin with Hitachi outdoor units.

## VRF OUTDOOR UNITS

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# Line-up overview

## A Wide Line-Up from 8HP to 72HP

The JNBBQ Series is newly launched with a wide range of models in its line-up, 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)

**Single unit up to 18HP class!**

8HP Class / 22.4kW / 25.0kW / 248kg  
 10HP Class / 28.0kW / 31.5kW / 248kg  
 12HP Class / 33.5kW / 37.5kW / 308kg  
 14HP Class / 40.0kW / 45.0kW / 356kg  
 16HP Class / 45.0kW / 50.0kW / 356kg  
 18HP Class / 50.0kW / 56.0kW / 390kg  
 20HP Class / 56.0kW / 63.0kW / 496kg

56HP Class / 160.0kW / 180.0kW / 1,424kg  
 58HP Class / 165.0kW / 185.0kW / 1,424kg  
 60HP Class / 170.0kW / 190.0kW / 1,424kg  
 62HP Class / 175.0kW / 196.0kW / 1,458kg  
 64HP Class / 180.0kW / 202.0kW / 1,492kg  
 66HP Class / 185.0kW / 207.0kW / 1,492kg

22HP Class / 61.5kW / 69.0kW / 556kg  
 24HP Class / 67.0kW / 75.0kW / 616kg  
 26HP Class / 73.5kW / 82.5kW / 664kg  
 28HP Class / 80.0kW / 90.0kW / 712kg  
 30HP Class / 85.0kW / 95.0kW / 712kg  
 32HP Class / 90.0kW / 100.0kW / 712kg  
 34HP Class / 95.0kW / 106.0kW / 746kg  
 36HP Class / 100.0kW / 112.0kW / 780kg

**Whole range up to 72HP class!**

68HP Class / 190.0kW / 213.0kW / 1,526kg  
 70HP Class / 195.0kW / 218.0kW / 1,526kg  
 72HP Class / 200.0kW / 224.0kW / 1,560kg

38HP Class / 107.0kW / 120.0kW / 972kg  
 40HP Class / 113.5kW / 127.5kW / 1,020kg  
 42HP Class / 120.0kW / 135.0kW / 1,068kg  
 44HP Class / 125.0kW / 140.0kW / 1,068kg  
 46HP Class / 130.0kW / 145.0kW / 1,068kg  
 48HP Class / 135.0kW / 150.0kW / 1,068kg  
 50HP Class / 140.0kW / 156.0kW / 1,102kg  
 52HP Class / 145.0kW / 162.0kW / 1,136kg  
 54HP Class / 150.0kW / 168.0kW / 1,170kg

## SUMMARY TABLE

Item	Unit	JNBBQ Series	
Capacity	HP class	8- 72	
Maximum connectable indoor unit quantity	unit	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 <sup>*1</sup>
Maximum level difference <sup>*2</sup>	Between multi kit and each indoor unit	m	40
	Between outdoor units (combination of base units)	ODU above IDU	m 50 (standard) / up to 90 (custom order) <sup>*2</sup>
		IDU above ODU	m 40
Cooling operation range	°C DB	-5.0 to 54.0	
Heating operation range	°C WB	-5.0 to 15.0	

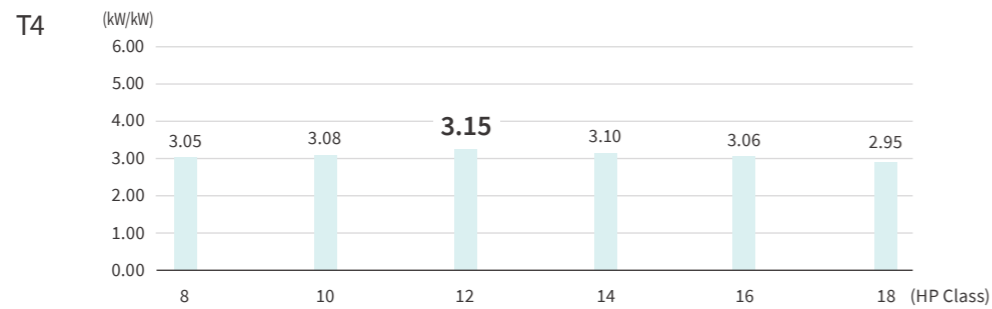
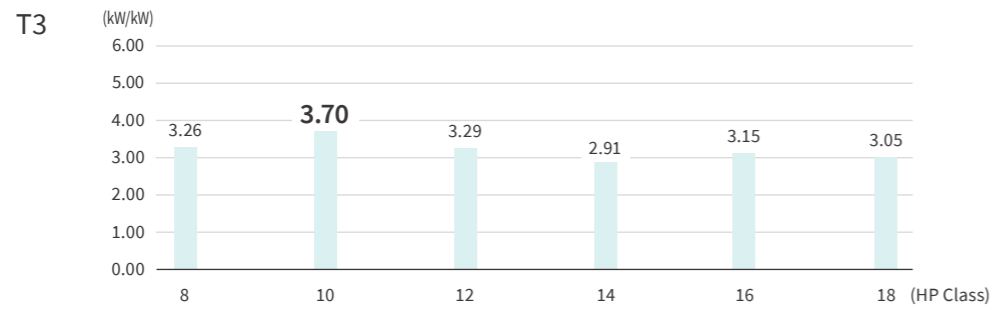
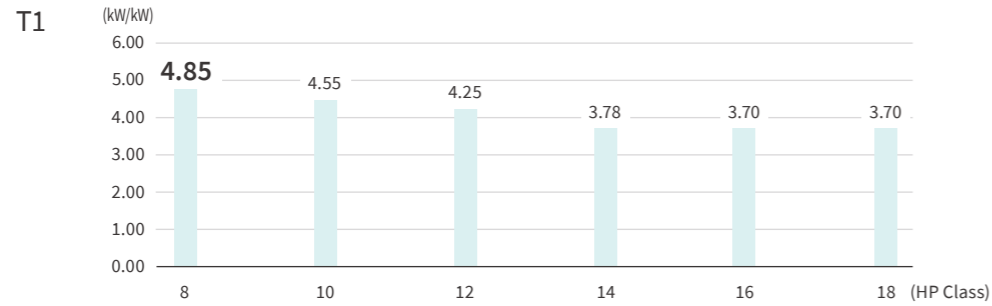
For more details, please consult your distributor and/or refer to the technical documentation.  
<sup>\*1</sup>: Maximum of 30m, when the number of connected indoor units exceeds the recommendation.  
<sup>\*2</sup>: Longer piping (up to 90m) is available for 8-48HP models only.  
 Maximum level difference for 50-72HP models is 70m.

# High efficiency

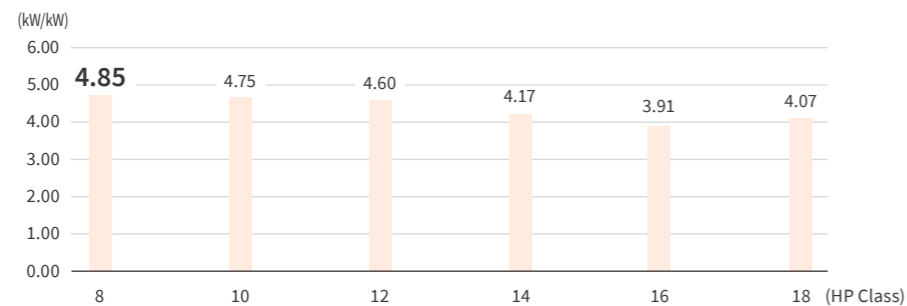
## HIGHER PERFORMANCE IN BOTH EER AND COP

The JNBBQ Series offers greater energy efficiency and a higher coefficient of performance, contributing to the environment while being easier on the wallet.

EER: Energy Efficiency Ratio



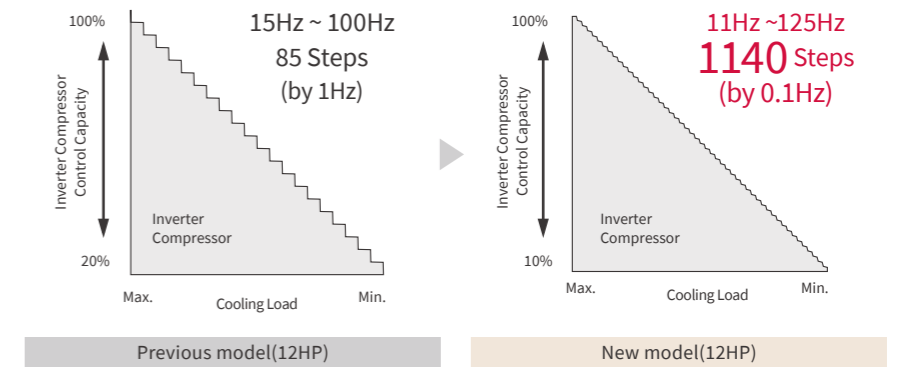
COP: Coefficient Of Performance



NOTES:  
 1. The cooling and heating performances are the values when combined with our specified indoor units.  
 Cooling Operation Conditions  
 T1: Indoor Air Inlet Temperature: 27°C DB / 19°C WB  
 Outdoor Air Inlet Temperature: 35°C DB  
 T3: Indoor Air Inlet Temperature: 29°C DB / 19°C WB  
 Outdoor Air Inlet Temperature: 46°C DB  
 T4: Indoor Air Inlet Temperature: 26.7°C DB / 19.4°C WB  
 Outdoor Air Inlet Temperature: 48°C DB  
 Piping Length: 7.5metre Piping Lift: 0metre  
 Heating Operation Conditions  
 Indoor Air Inlet Temperature: 20°C DB  
 Outdoor Air Inlet Temperature: 8.3°C DB / 6.1°C WB  
 Piping Length: 7.5m Piping Lift: 0m  
 2. Please refer to the technical catalog for more details.

## NEWLY DEVELOPED COMPRESSOR

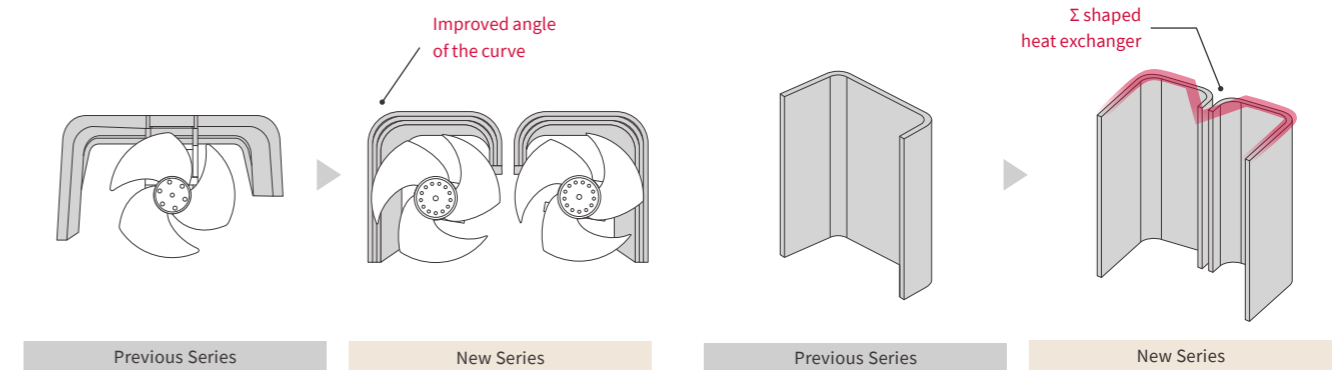
Highly improved performance as well as greater energy savings are achieved by adopting a newly developed, high-efficiency DC inverter compressor with extremely accurate control technology that regulates inverter frequency in increments of 0.1Hz. Another feature is the dramatically extended working range achieved by expanding the compressor's operating frequency band, both upwards and downwards.



## REDESIGNED HEAT EXCHANGER

A dual-fan structure has been introduced to improve efficiency during low load operation. A Σ shaped heat exchanger maximizes the effect of the dual-fan structure for better energy savings.

- Heat exchange area has been increased by more than **10%** (single unit)
- Greater heat exchange efficiency

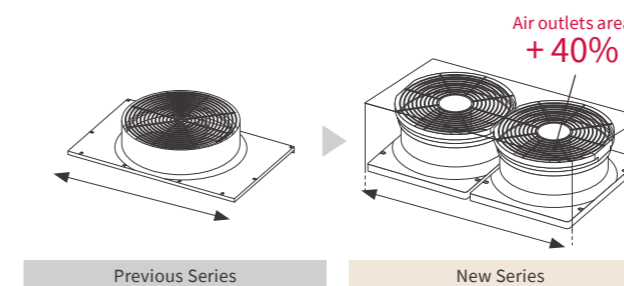


## IMPROVED FAN POWER

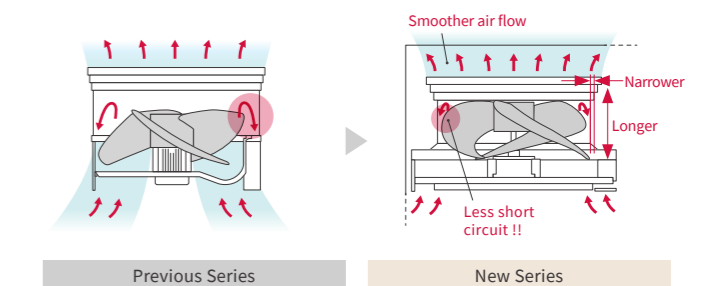
The long bell-mouth structure creates smooth air flow and reduces fan input by introducing a multi-stage enhanced construction.

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

Expansion of air outlets



Improvement in bell-mouth

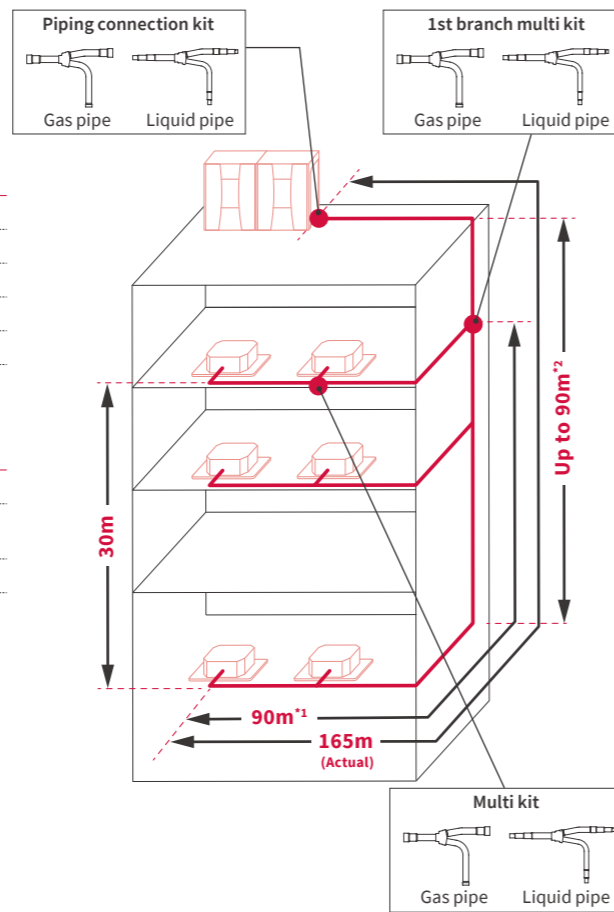




# Design flexibility

## PIPING FLEXIBILITY

Longer and more flexible piping has been realized. This helps in dealing with various piping restrictions.



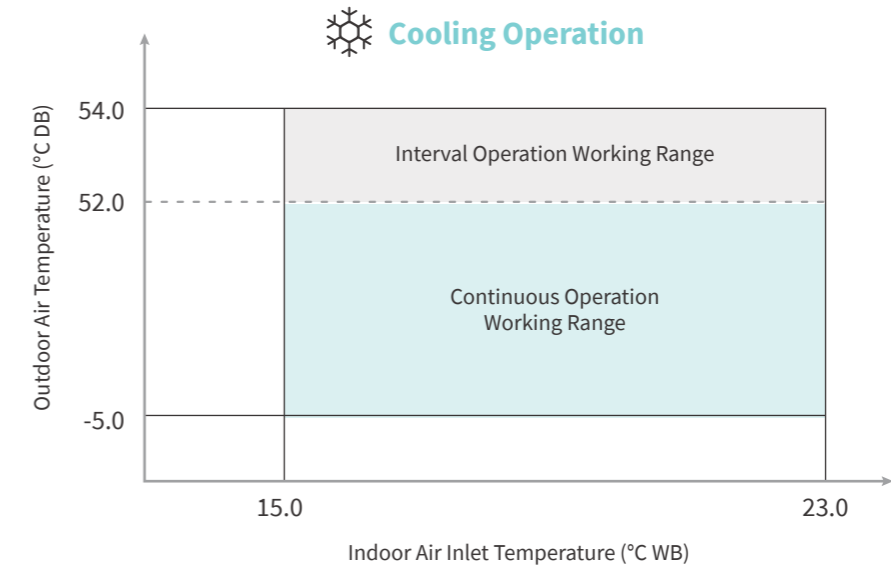
Maximum piping length	Unit	
Maximum total piping length	m	1,000
Maximum refrigerant piping length	Actual	m 165
	Equivalent	m 190
Between piping connection kit and each ODU	m	10
Between 1st branch multi kit and farthest IDU	m	90 <sup>*1</sup>
Between multi kit and each IDU	m	40

Maximum level difference	Unit	
Between ODUs (combination of base units)	m	0.1
Between ODU and IDU	ODU above IDU	m 50 (standard) / up to 90 (custom order) <sup>*2</sup>
	IDU above ODU	m 40
Between IDUs	m	30

NOTES:  
 Each maximum length or level difference has several conditions. Please refer to the technical documents to aid your enquiry.  
<sup>\*1</sup>: Maximum of 30m, when the number of connected indoor units exceeds the recommendation.  
<sup>\*2</sup>: When the maximum level difference is greater than 50m, please contact your local dealer or distributor.  
 Longer piping (up to 90m) is available for 8-48HP models only.  
 Maximum level difference for 50-72HP models is 70m.

## UP TO 54°C AMBIENT TEMPERATURE FOR COOLING OPERATIONS

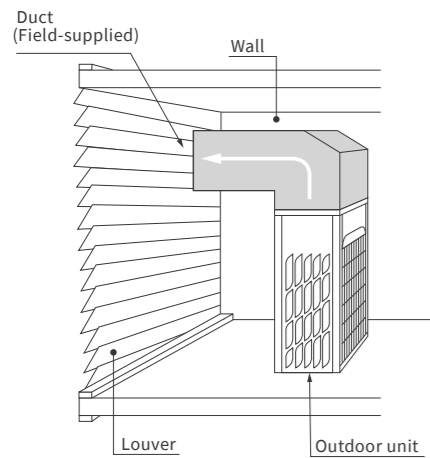
- Up to 52.0°C stable running
  - Up to 54.0°C interval running
- Special fresh air intake and trapezoid heat sink design are adopted for the inverter driver. This improves heat emission and allows the system to run stably under high ambient temperature conditions.



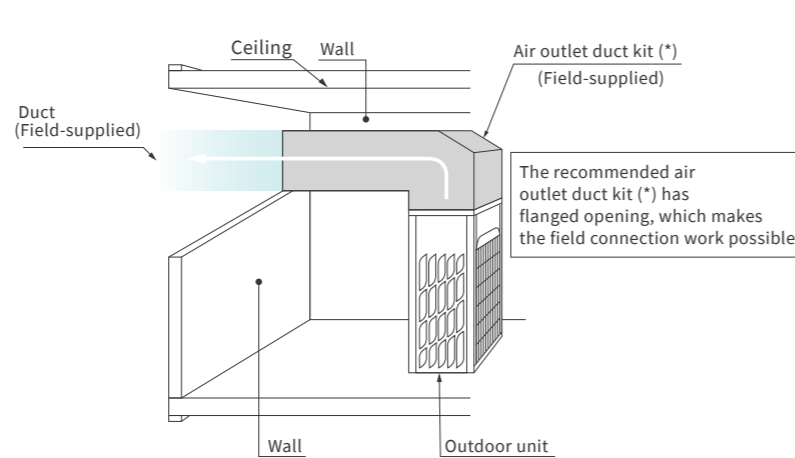
## A WIDE RANGE OF EXTERNAL STATIC PRESSURE

The JNBBQ Series offers three ESP options (0Pa, 30Pa and 60Pa). By adding an air outlet duct kit and duct to the outdoor unit, external static pressure is secured in varying installation spaces.

### Space with a Louver



### Space with a Wall



Notes:  
<sup>\*</sup> Air outlet duct kit is field-supplied.



# Adaptability

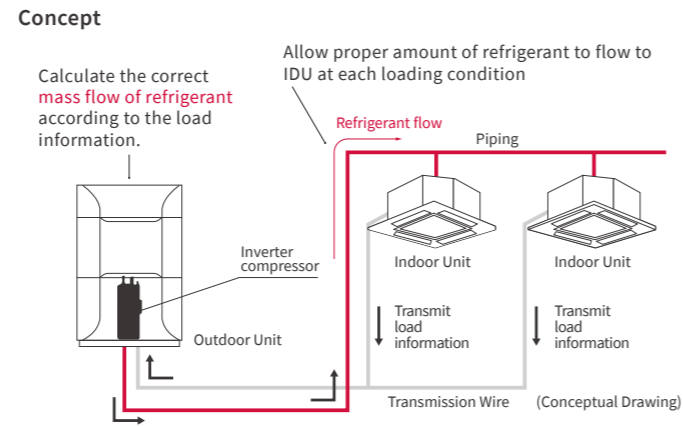
## SMOOTHDRIVE™: SUPERIOR COMPRESSOR CONTROL

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

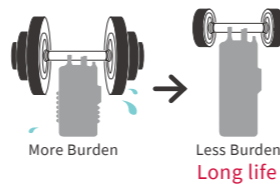
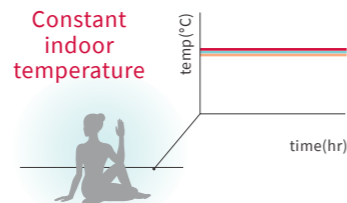
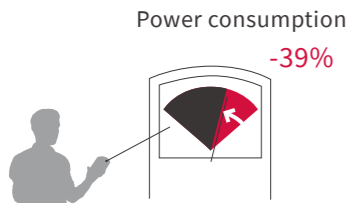


### How does "SmoothDrive™" benefit you?

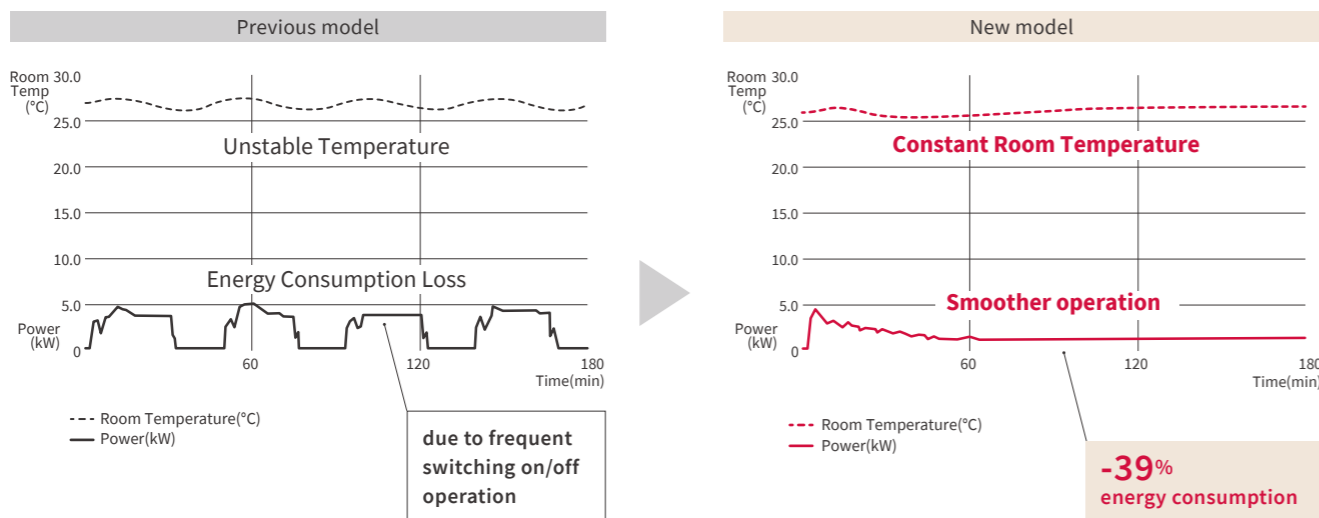
**Efficiency**  
Power consumption is reduced by -39% in the testing condition at air conditioning load 33%.

**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.



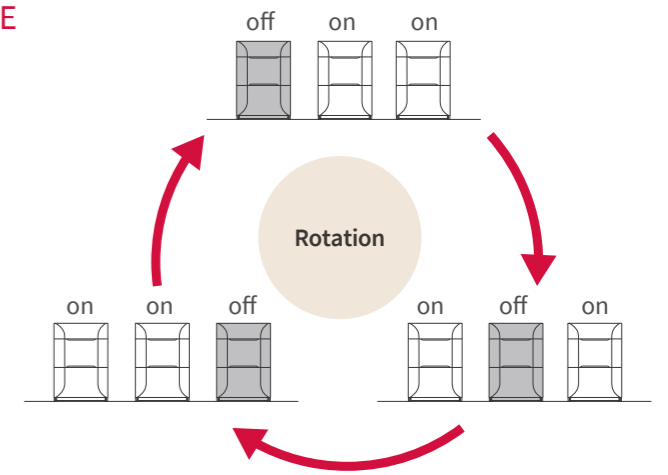
### Actual example of the new compressor control



### ROTATIONAL OPERATION<sup>1</sup> TO DISTRIBUTE LOAD OF OUTDOOR UNITS

Regulating the operation time of each outdoor unit leads to load reduction on compressors.<sup>2</sup> During multiple unit operation, maintaining the same rotation frequency of the compressors results in an equal load on each compressor, thereby helping enhance outdoor unit durability.

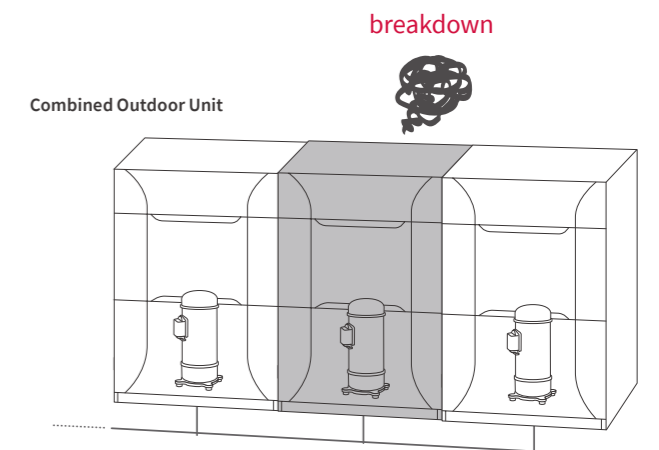
NOTES:  
<sup>1</sup>: At least 2 outdoor units are required for this function.  
<sup>2</sup>: Comparison between the rotational operation function and non-rotational operation function based on the same system.



### BACKUP OPERATION FUNCTION FOR EMERGENCY

The backup operation function prevents the system from coming to a complete stop when outdoor unit failure occurs.<sup>1</sup> Emergency operation starts with the remote control switch after an alarm.<sup>2</sup>

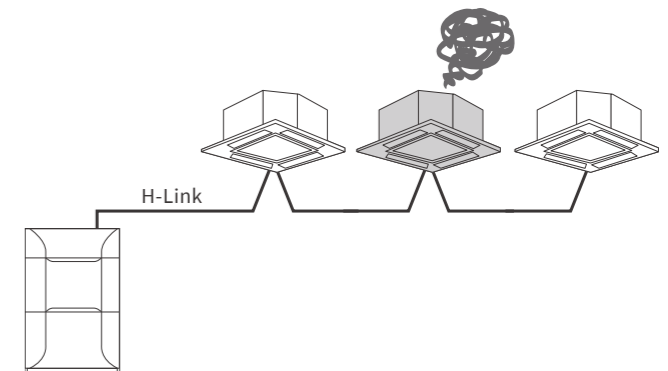
NOTES:  
<sup>1</sup>: At least 2 outdoor units are required for this function.  
<sup>2</sup>: Emergency operation can be performed when the specified alarm code occurs. Refer to "Alarm Code for Emergency Operation."



### 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:  
<sup>1</sup> 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.  
<sup>2</sup> Please restore the indoor unit power as soon as possible, continue to turn off indoor may significantly affect system reliability.



# Specifications



Model		RAS-8.0JNBBTQ	RAS-10JNBBTQ	RAS-12JNBBTQ	RAS-14JNBBTQ	RAS-16JNBBTQ	RAS-18JNBBTQ		
Combination of Base Units		-	-	-	-	-	-		
Power Supply		[380-415V, 3N~, 50Hz] [380V, 3N~, 60Hz]							
Cooling (T1)	Capacity	kW	22.4	28.0	33.5	40.0	45.0	50.0	
		Btu/h	76,000	96,000	114,000	136,000	152,000	170,000	
	Power Input	kW	4.62	6.15	7.88	10.58	12.16	13.51	
	EER	(Btu/h)/W	16.45	15.60	14.45	12.85	12.50	12.60	
Cooling (T3)	Capacity	kW	22.4	24.0	29.2	33.0	35.0	43.0	
		Btu/h	76,000	82,000	100,000	113,000	119,000	146,000	
	Power Input	kW	6.87	6.49	8.88	11.36	11.11	14.10	
	EER	(Btu/h)/W	11.05	12.65	11.25	9.95	10.70	10.35	
Cooling (T4)	Capacity	kW	20.0	22.0	23.8	27.0	27.9	36.0	
		Btu/h	68,000	75,000	81,000	92,000	95,000	123,000	
	Power Input	kW	6.56	7.14	7.56	8.71	9.12	12.20	
	EER	(Btu/h)/W	10.35	10.50	10.70	10.55	10.40	10.10	
Heating (4) (Nominal)	Capacity	kW	25.0	31.5	37.5	45.0	50.0	56.0	
		Btu/h	85,000	107,000	128,000	154,000	170,000	192,000	
	Power Input	kW	5.15	6.63	8.15	10.79	12.79	13.76	
	COP	(Btu/h)/W	16.50	16.15	15.70	14.25	13.30	13.95	
Unit Color (Munsell Color System)		Natural White							
Sound Pressure Level	Normal	dB (A)	56.0	58.0	60.0	62.0	64.0	64.0	
Dimensions	Unit	(H×W×D)	mm	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
	Package	(H×W×D)	mm	1,888 × 1,020 × 841	1,888 × 1,020 × 841	1,888 × 1,280 × 841	1,888 × 1,280 × 841	1,888 × 1,280 × 841	1,888 × 1,680 × 841
Weight	Net	kg	248	248	308	356	356	390	
	Gross	kg	273	273	334	382	382	419	
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A	R410A	
	Charge	kg	7.2	7.2	8.9	10.7	10.7	11.3	
Compressor (Scroll)	Quantity		1	1	1	2	2	2	
	Compressor Motor Output	kW	7.4	7.4	9.3	6.4 × 2	6.4 × 2	6.5 × 2	
Condenser Fan (Propeller Fan)	Quantity		1	1	2	2	2	2	
	Air Flow Rate	m <sup>3</sup> /min	171	171	239	256	256	329	
	Fan Motor Output	kW	0.31	0.31	0.33 × 2	0.39 × 2	0.39 × 2	0.48 × 2	
Liquid Line		mm[in.]	φ 12.7 (1/2)	φ 12.7 (1/2)	φ 12.7 (1/2)	φ 15.88 (5/8)	φ 15.88 (5/8)	φ 15.88 (5/8)	
Gas Line		mm[in.]	φ 25.4 (1)	φ 25.4 (1)	φ 25.4 (1)	φ 28.58 (1-1/8)	φ 28.58 (1-1/8)	φ 28.58 (1-1/8)	

NOTES:

1. The cooling and heating performances are the values when combined with our specified indoor units.

Cooling Operation Conditions

T1: Indoor Air Inlet Temperature: 27.0°C DB / 19.0°C WB  
 Outdoor Air Inlet Temperature: 35.0°C DB  
 T3: Indoor Air Inlet Temperature: 29.0°C DB / 19.0°C WB  
 Outdoor Air Inlet Temperature: 46.0°C DB  
 T4: Indoor Air Inlet Temperature: 26.6°C DB / 19.4°C WB  
 Outdoor Air Inlet Temperature: 48.0°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: 8.3°C DB / 6.1°C WB  
 Piping Length: 7.5 metre  
 Piping Lift: 0 metre

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

1.0 metre from the unit service cover surface, and 1.5 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 1-2dB (A).

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

3. The width (outer dimension) is the value when the gap between the base outer units is specified at 20mm.



Model		RAS-20JNBBTQ	RAS-22JNBBTQ	RAS-24JNBBTQ	RAS-26JNBBTQ	RAS-28JNBBTQ		
Combination of Base Units		-	-	-	-	-		
Power Supply		[380-415V, 3N~, 50Hz] [380V, 3N~, 60Hz]						
Cooling (T1)	Capacity	kW	56.0	61.5	67.0	73.5	80.0	
		Btu/h	192,000	210,000	228,000	250,000	272,000	
	Power Input	kW	12.30	14.03	15.76	18.46	21.16	
	EER	(Btu/h)/W	15.60	14.95	14.45	13.55	12.85	
Cooling (T3)	Capacity	kW	48.0	53.2	58.4	62.2	66.0	
		Btu/h	164,000	182,000	200,000	212,000	226,000	
	Power Input	kW	12.98	15.37	17.76	20.24	22.72	
	EER	(Btu/h)/W	12.65	11.85	11.25	10.45	9.95	
Cooling (T4)	Capacity	kW	44.0	45.8	47.6	50.8	54.0	
		Btu/h	150,000	156,000	162,000	174,000	184,000	
	Power Input	kW	14.28	14.70	15.12	16.27	17.42	
	EER	(Btu/h)/W	10.50	10.60	10.70	10.70	10.55	
Heating (4) (Nominal)	Capacity	kW	63.0	69.0	75.0	82.5	90.0	
		Btu/h	214,000	236,000	256,000	282,000	308,000	
	Power Input	kW	13.26	14.78	16.30	18.94	21.58	
	COP	(Btu/h)/W	16.15	15.95	15.70	14.90	14.25	
Unit Color (Munsell Color System)		Natural White						
Max. Sound Pressure Level	Normal	dB (A)	62.0	62.5	63.0	64.0	65.0	
Dimensions	Unit	(H×W×D)	mm	1,725 × 1,936 × 782	1,725 × 2,196 × 782	1,725 × 2,456 × 782	1,725 × 2,456 × 782	1,725 × 2,456 × 782
	Package	(H×W×D)	mm	1,888 × 1,020 × 841	1,888 × 1,020 × 841	1,888 × 1,280 × 841	1,888 × 1,280 × 841	1,888 × 1,680 × 841
Weight	Net	kg	496	556	616	664	712	
	Gross	kg	546	607	668	716	764	
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A	
	Charge	kg	14.4	16.1	17.8	19.6	21.4	
Compressor (Scroll)	Quantity		2	2	2	3	4	
	Compressor Motor Output	kW	7.4 + 7.4	7.4 + 9.3	9.3 + 9.3	9.3 + 6.4 × 2	6.4 × 2 + 6.4 × 2	
Condenser Fan (Propeller Fan)	Quantity		2	3	4	4	4	
	Air Flow Rate	m <sup>3</sup> /min	171 + 171	171 + 239	239 + 239	239 + 256	256 + 256	
	Fan Motor Output	kW	0.31 + 0.31	0.31 + 0.33 × 2	0.33 × 2 + 0.33 × 2	0.33 × 2 + 0.39 × 2	0.39 × 2 + 0.39 × 2	
Liquid Line		mm[in.]	φ 15.88 (5/8)	φ 19.05 (3/4)	φ 19.05 (3/4)	φ 19.05 (3/4)	φ 19.05 (3/4)	
Gas Line		mm[in.]	φ 28.58 (1-1/8)	φ 31.75 (1-1/4)	φ 31.75 (1-1/4)	φ 31.75 (1-1/4)	φ 38.1 (1-1/2)	

NOTES:

1. The cooling and heating performances are the values when combined with our specified indoor units.

Cooling Operation Conditions

T1: Indoor Air Inlet Temperature: 27.0°C DB / 19.0°C WB  
 Outdoor Air Inlet Temperature: 35.0°C DB  
 T3: Indoor Air Inlet Temperature: 29.0°C DB / 19.0°C WB  
 Outdoor Air Inlet Temperature: 46.0°C DB  
 T4: Indoor Air Inlet Temperature: 26.6°C DB / 19.4°C WB  
 Outdoor Air Inlet Temperature: 48.0°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: 8.3°C DB / 6.1°C WB  
 Piping Length: 7.5 metre  
 Piping Lift: 0 metre

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

1.0 metre from the unit service cover surface, and 1.5 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 1-2dB (A).

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

3. The width (outer dimension) is the value when the gap between the base outer units is specified at 20mm.

# Specifications



Model		RAS-30JNBBTQ	RAS-32JNBBTQ	RAS-34JNBBTQ	RAS-36JNBBTQ		
		RAS-14JNBBTQ	RAS-16JNBBTQ	RAS-16JNBBTQ	RAS-18JNBBTQ		
Combination of Base Units		RAS-16JNBBTQ	RAS-16JNBBTQ	RAS-18JNBBTQ	RAS-18JNBBTQ		
		-	-	-	-		
Power Supply		[380-415V, 3N~, 50Hz] [380V, 3N~, 60Hz]					
Cooling (T1)	Capacity	kW	85.0	90.0	95.0	100.0	
		Btu/h	290,000	308,000	324,000	342,000	
	Power Input	kW	22.74	24.32	25.67	27.02	
	EER	(Btu/h)/W	12.75	12.65	12.60	12.65	
		kW/kW	3.74	3.70	3.70	3.70	
Cooling (T3)	Capacity	kW	68.0	70.0	78.0	86.0	
		Btu/h	232,000	238,000	266,000	294,000	
	Power Input	kW	22.47	22.22	25.21	28.20	
	EER	(Btu/h)/W	10.30	10.70	10.55	10.45	
		kW/kW	3.03	3.15	3.09	3.05	
Cooling (T4)	Capacity	kW	54.9	55.8	63.9	72.0	
		Btu/h	188,000	190,000	218,000	246,000	
	Power Input	kW	17.83	18.24	21.32	24.40	
	EER	(Btu/h)/W	10.55	10.40	10.25	10.10	
		kW/kW	3.08	3.06	3.00	2.95	
Heating (4) (Nominal)	Capacity	kW	95.0	100.0	106.0	112.0	
		Btu/h	324,000	342,000	362,000	382,000	
	Power Input	kW	23.58	25.58	26.55	27.52	
	COP	(Btu/h)/W	13.75	13.35	13.65	13.90	
		kW/kW	4.03	3.91	3.99	4.07	
Unit Color (Munsell Color System)		Natural White					
Max. Sound Pressure Level	Normal	dB (A)	66.0	67.0	67.0	67.0	
Dimensions	Unit	(H×W×D)	mm	1,725 × 2,456 × 782	1,725 × 2,456 × 782	1,725 × 2,846 × 782	1,725 × 3,236 × 782
	Net	kg	712	712	746	780	
Weight	Gross	kg	764	764	801	838	
	Type		R410A	R410A	R410A	R410A	
Refrigerant	Charge	kg	21.4	21.4	22.0	22.6	
	Quantity		4	4	4	4	
Compressor (Scroll)	Compressor Motor Output	kW	6.4 × 2 + 6.4 × 2	6.4 × 2 + 6.4 × 2	6.4 × 2 + 6.5 × 2	6.5 × 2 + 6.5 × 2	
	Quantity		4	4	4	4	
Condenser Fan (Propeller Fan)	Air Flow Rate	m <sup>3</sup> /min	256 + 256	256 + 256	256 + 329	329 + 329	
	Fan Motor Output	kW	0.39 × 2 + 0.39 × 2	0.39 × 2 + 0.39 × 2	0.39 × 2 + 0.48 × 2	0.48 × 2 + 0.48 × 2	
Liquid Line		mm[in.]	φ 19.05 (3/4)	φ 19.05 (3/4)	φ 19.05 (3/4)	φ 19.05 (3/4)	
Gas Line		mm[in.]	φ 38.1 (1-1/2)	φ 38.1 (1-1/2)	φ 38.1 (1-1/2)	φ 38.1 (1-1/2)	

NOTES:

- The cooling and heating performances are the values when combined with our specified indoor units.
 

<b>Cooling Operation Conditions</b> T1: Indoor Air Inlet Temperature: 27.0°C DB / 19.0°C WB Outdoor Air Inlet Temperature: 35.0°C DB T3: Indoor Air Inlet Temperature: 29.0°C DB / 19.0°C WB Outdoor Air Inlet Temperature: 46.0°C DB T4: Indoor Air Inlet Temperature: 26.6°C DB / 19.4°C WB Outdoor Air Inlet Temperature: 48.0°C DB Piping Length: 7.5 metre Piping Lift: 0 metre	<b>Heating Operation Conditions</b> Indoor Air Inlet Temperature: 20.0°C DB Outdoor Air Inlet Temperature: 8.3°C DB / 6.1°C WB Piping Length: 7.5 metre Piping Lift: 0 metre
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- The sound pressure level is based on the following conditions:  
 1.0 metre from the unit service cover surface, and 1.5 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 1-2dB (A).  
 The above data was measured in an anechoic chamber. Therefore, reflected sound should be taken into consideration in the field.
- The width (outer dimension) is the value when the gap between the base outer units is specified at 20mm.



Model		RAS-38JNBBTQ	RAS-40JNBBTQ	RAS-42JNBBTQ	RAS-44JNBBTQ	RAS-46JNBBTQ	RAS-48JNBBTQ		
		RAS-12JNBBTQ	RAS-12JNBBTQ	RAS-14JNBBTQ	RAS-14JNBBTQ	RAS-14JNBBTQ	RAS-16JNBBTQ		
Combination of Base Units		RAS-12JNBBTQ	RAS-14JNBBTQ	RAS-14JNBBTQ	RAS-14JNBBTQ	RAS-16JNBBTQ	RAS-16JNBBTQ		
		RAS-14JNBBTQ	RAS-14JNBBTQ	RAS-14JNBBTQ	RAS-16JNBBTQ	RAS-16JNBBTQ	RAS-16JNBBTQ		
		-	-	-	-	-	-		
Power Supply		[380-415V, 3N~, 50Hz] [380V, 3N~, 60Hz]							
Cooling (T1)	Capacity	kW	107.0	113.5	120.0	125.0	130.0	135.0	
		Btu/h	366,000	388,000	410,000	425,000	445,000	460,000	
	Power Input	kW	26.34	29.04	31.74	33.32	34.90	36.48	
	EER	(Btu/h)/W	13.90	13.35	12.90	12.75	12.75	12.60	
		kW/kW	4.06	3.91	3.78	3.75	3.72	3.70	
Cooling (T3)	Capacity	kW	91.4	95.2	99.0	101.0	103.0	105.0	
		Btu/h	312,000	324,000	338,000	344,000	352,000	358,000	
	Power Input	kW	29.12	31.60	34.08	33.83	33.58	33.33	
	EER	(Btu/h)/W	10.70	10.25	9.90	10.15	10.50	10.75	
		kW/kW	3.14	3.01	2.90	2.99	3.07	3.15	
Cooling (T4)	Capacity	kW	74.6	77.8	81.0	81.9	82.8	83.7	
		Btu/h	254,000	266,000	276,000	280,000	282,000	286,000	
	Power Input	kW	23.83	24.98	26.13	26.54	26.95	27.36	
	EER	(Btu/h)/W	10.65	10.65	10.55	10.55	10.45	10.45	
		kW/kW	3.13	3.11	3.10	3.09	3.07	3.06	
Heating (4) (Nominal)	Capacity	kW	120.0	127.5	135.0	140.0	145.0	150.0	
		Btu/h	410,000	435,000	460,000	480,000	495,000	510,000	
	Power Input	kW	27.09	29.73	32.37	34.37	36.37	38.37	
	COP	(Btu/h)/W	15.15	14.65	14.20	13.95	13.60	13.30	
		kW/kW	4.43	4.29	4.17	4.07	3.99	3.91	
Unit Color (Munsell Color System)		Natural White							
Max. Sound Pressure Level	Normal	dB (A)	66.0	66.5	67.0	67.5	68.0	68.5	
Dimensions	Unit	(H×W×D)	mm	1,725 × 3,694 × 782	1,725 × 3,694 × 782	1,725 × 3,694 × 782	1,725 × 3,694 × 782	1,725 × 3,694 × 782	1,725 × 3,694 × 782
	Net	kg	972	1,020	1,068	1,068	1,068	1,068	
Weight	Gross	kg	1,050	1,098	1,146	1,146	1,146	1,146	
	Type		R410A	R410A	R410A	R410A	R410A	R410A	
Refrigerant	Charge	kg	28.5	30.3	32.1	32.1	32.1	32.1	
	Quantity		4	5	6	6	6	6	
Compressor (Scroll)	Compressor Motor Output	kW	9.3+9.3+6.4×2	9.3+6.4×2+6.4×2	6.4×2+6.4×2+6.4×2	6.4×2+6.4×2+6.4×2	6.4×2+6.4×2+6.4×2	6.4×2+6.4×2+6.4×2	
	Quantity		6	6	6	6	6	6	
Condenser Fan (Propeller Fan)	Air Flow Rate	m <sup>3</sup> /min	239 + 239 + 256	239 + 256 + 256	256 + 256 + 256	256 + 256 + 256	256 + 256 + 256	256 + 256 + 256	
	Fan Motor Output	kW	0.33 × 2 + 0.33 × 2 + 0.39 × 2	0.33 × 2 + 0.39 × 2 + 0.39 × 2	0.39 × 2 + 0.39 × 2 + 0.39 × 2	0.39 × 2 + 0.39 × 2 + 0.39 × 2	0.39 × 2 + 0.39 × 2 + 0.39 × 2	0.39 × 2 + 0.39 × 2 + 0.39 × 2	
Liquid Line		mm[in.]	φ 19.05 (3/4)	φ 19.05 (3/4)	φ 19.05 (3/4)	φ 19.05 (3/4)	φ 19.05 (3/4)	φ 19.05 (3/4)	
Gas Line		mm[in.]	φ 38.1 (1-1/2)	φ 38.1 (1-1/2)	φ 38.1 (1-1/2)	φ 38.1 (1-1/2)	φ 38.1 (1-1/2)	φ 38.1 (1-1/2)	

NOTES:

- The cooling and heating performances are the values when combined with our specified indoor units.
 

<b>Cooling Operation Conditions</b> T1: Indoor Air Inlet Temperature: 27.0°C DB / 19.0°C WB Outdoor Air Inlet Temperature: 35.0°C DB T3: Indoor Air Inlet Temperature: 29.0°C DB / 19.0°C WB Outdoor Air Inlet Temperature: 46.0°C DB T4: Indoor Air Inlet Temperature: 26.6°C DB / 19.4°C WB Outdoor Air Inlet Temperature: 48.0°C DB Piping Length: 7.5 metre Piping Lift: 0 metre	<b>Heating Operation Conditions</b> Indoor Air Inlet Temperature: 20.0°C DB Outdoor Air Inlet Temperature: 8.3°C DB / 6.1°C WB Piping Length: 7.5 metre Piping Lift: 0 metre
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- The sound pressure level is based on the following conditions:  
 1.0 metre from the unit service cover surface, and 1.5 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 1-2dB (A).  
 The above data was measured in an anechoic chamber. Therefore, reflected sound should be taken into consideration in the field.
- The width (outer dimension) is the value when the gap between the base outer units is specified at 20mm.

# Specifications



Model		RAS-50JNBTTQ	RAS-52JNBTTQ	RAS-54JNBTTQ	
Combination of Base Units		RAS-16JNBTTQ	RAS-16JNBTTQ	RAS-18JNBTTQ	
		RAS-16JNBTTQ	RAS-18JNBTTQ	RAS-18JNBTTQ	
		RAS-18JNBTTQ	RAS-18JNBTTQ	RAS-18JNBTTQ	
Power Supply		[380-415V, 3N~, 50Hz] [380V, 3N~, 60Hz]			
Cooling (T1)	Capacity	kW 140.0 Btu/h 480,000	145.0 495,000	150.0 510,000	
	Power Input	kW 37.83	39.18	40.53	
	EER	(Btu/h)/W	12.70	12.65	12.60
		kW/kW	3.70	3.70	3.70
Cooling (T3)	Capacity	kW 113.0 Btu/h 386,000	121.0 415,000	129.0 440,000	
	Power Input	kW 36.32	39.31	42.30	
	EER	(Btu/h)/W	10.65	10.55	10.40
		kW/kW	3.11	3.08	3.05
Cooling (T4)	Capacity	kW 91.8 Btu/h 314,000	99.9 340,000	108.0 368,000	
	Power Input	kW 30.44	33.52	36.60	
	EER	(Btu/h)/W	10.30	10.15	10.05
		kW/kW	3.02	2.98	2.95
Heating (4) (Nominal)	Capacity	kW 156.0 Btu/h 530,000	162.0 555,000	168.0 575,000	
	Power Input	kW 39.34	40.31	41.28	
	COP	(Btu/h)/W	13.45	13.75	13.95
		kW/kW	3.97	4.02	4.07
Unit Color (Munsell Color System)		Natural White			
Max. Sound Pressure Level	Normal	dB (A) 69.0	69.0	69.0	
Dimensions	Unit	(H×W×D) mm	1,725 × 4,084 × 782	1,725 × 4,474 × 782	1,725 × 4,864 × 782
	Weight	Net kg	1,102	1,136	1,170
Weight	Gross kg	1,183	1,220	1,257	
	Refrigerant	Type	R410A		
Refrigerant	Charge	kg	32.7	33.3	33.9
	Quantity		6		
Compressor (Scroll)	Compressor Motor Output	kW	6.4 × 2 + 6.4 × 2 + 6.5 × 2	6.4 × 2 + 6.5 × 2 + 6.5 × 2	6.5 × 2 + 6.5 × 2 + 6.5 × 2
	Quantity		6		
Condenser Fan (Propeller Fan)	Air Flow Rate	m <sup>3</sup> /min	256 + 256 + 329	256 + 329 + 329	329 + 329 + 329
	Fan Motor Output	kW	0.39 × 2 + 0.39 × 2 + 0.48 × 2	0.39 × 2 + 0.48 × 2 + 0.48 × 2	0.48 × 2 + 0.48 × 2 + 0.48 × 2
Liquid Line		mm[in.]	φ 19.05 (3/4)	φ 19.05 (3/4)	φ 19.05 (3/4)
Gas Line		mm[in.]	φ 44.5 (1-3/4)	φ 44.5 (1-3/4)	φ 44.5 (1-3/4)

NOTES:

- The cooling and heating performances are the values when combined with our specified indoor units.
 

<b>Cooling Operation Conditions</b> T1: Indoor Air Inlet Temperature: 27.0°C DB / 19.0°C WB Outdoor Air Inlet Temperature: 35.0°C DB T3: Indoor Air Inlet Temperature: 29.0°C DB / 19.0°C WB Outdoor Air Inlet Temperature: 46.0°C DB T4: Indoor Air Inlet Temperature: 26.6°C DB / 19.4°C WB Outdoor Air Inlet Temperature: 48.0°C DB Piping Length: 7.5 metre Piping Lift: 0 metre	<b>Heating Operation Conditions</b> Indoor Air Inlet Temperature: 20.0°C DB Outdoor Air Inlet Temperature: 8.3°C DB / 6.1°C WB Piping Length: 7.5 metre Piping Lift: 0 metre
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- The sound pressure level is based on the following conditions:  
 1.0 metre from the unit service cover surface, and 1.5 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 1-2dB (A).  
 The above data was measured in an anechoic chamber. Therefore, reflected sound should be taken into consideration in the field.
- The width (outer dimension) is the value when the gap between the base outer units is specified at 20mm.



Model		RAS-56JNBTTQ	RAS-58JNBTTQ	RAS-60JNBTTQ	RAS-62JNBTTQ	
Combination of Base Units		RAS-14JNBTTQ	RAS-14JNBTTQ	RAS-14JNBTTQ	RAS-14JNBTTQ	
		RAS-14JNBTTQ	RAS-14JNBTTQ	RAS-14JNBTTQ	RAS-14JNBTTQ	
		RAS-14JNBTTQ	RAS-14JNBTTQ	RAS-16JNBTTQ	RAS-16JNBTTQ	
Power Supply		[380-415V, 3N~, 50Hz] [380V, 3N~, 60Hz]				
Cooling (T1)	Capacity	kW 160.0 Btu/h 545,000	165.0 565,000	170.0 580,000	175.0 595,000	
	Power Input	kW 42.32	43.90	45.48	46.83	
	EER	(Btu/h)/W	12.90	12.85	12.75	12.70
		kW/kW	3.78	3.76	3.74	3.74
Cooling (T3)	Capacity	kW 132.0 Btu/h 450,000	134.0 455,000	136.0 465,000	144.0 490,000	
	Power Input	kW 45.44	45.19	44.94	47.93	
	EER	(Btu/h)/W	9.90	10.05	10.35	10.20
		kW/kW	2.90	2.97	3.03	3.00
Cooling (T4)	Capacity	kW 108.0 Btu/h 368,000	108.9 372,000	109.8 374,000	117.9 400,000	
	Power Input	kW 34.84	35.25	35.66	38.74	
	EER	(Btu/h)/W	10.55	10.55	10.50	10.35
		kW/kW	3.10	3.09	3.08	3.04
Heating (4) (Nominal)	Capacity	kW 180.0 Btu/h 615,000	185.0 630,000	190.0 650,000	196.0 670,000	
	Power Input	kW 43.16	45.16	47.16	48.13	
	COP	(Btu/h)/W	14.25	13.95	13.80	13.90
		kW/kW	4.17	4.10	4.03	4.07
Unit Color (Munsell Color System)		Natural White				
Max. Sound Pressure Level	Normal	dB (A) 68.0	68.5	69.0	69.0	
Dimensions	Unit	(H×W×D) mm	1,725 × 4,932 × 782	1,725 × 4,932 × 782	1,725 × 4,932 × 782	1,725 × 5,322 × 782
	Weight	Net kg	1,424	1,424	1,424	1,458
Weight	Gross kg	1,528	1,528	1,528	1,565	
	Refrigerant	Type	R410A			
Refrigerant	Charge	kg	42.8	42.8	42.8	43.4
	Quantity		8			
Compressor (Scroll)	Compressor Motor Output	kW	6.4 × 2 + 6.4 × 2 + 6.4 × 2 + 6.4 × 2	6.4 × 2 + 6.4 × 2 + 6.4 × 2 + 6.4 × 2	6.4 × 2 + 6.4 × 2 + 6.4 × 2 + 6.4 × 2	6.4 × 2 + 6.4 × 2 + 6.4 × 2 + 6.5 × 2
	Quantity		8			
Condenser Fan (Propeller Fan)	Air Flow Rate	m <sup>3</sup> /min	256 + 256 + 256 + 256	256 + 256 + 256 + 256	256 + 256 + 256 + 256	256 + 256 + 256 + 329
	Fan Motor Output	kW	0.39 × 2 + 0.39 × 2 + 0.39 × 2 + 0.39 × 2	0.39 × 2 + 0.39 × 2 + 0.39 × 2 + 0.39 × 2	0.39 × 2 + 0.39 × 2 + 0.39 × 2 + 0.39 × 2	0.39 × 2 + 0.39 × 2 + 0.39 × 2 + 0.48 × 2
Liquid Line		mm[in.]	φ 22.2 (7/8)	φ 22.2 (7/8)	φ 22.2 (7/8)	φ 22.2 (7/8)
Gas Line		mm[in.]	φ 50.8 (2)	φ 50.8 (2)	φ 50.8 (2)	φ 50.8 (2)

NOTES:

- The cooling and heating performances are the values when combined with our specified indoor units.
 

<b>Cooling Operation Conditions</b> T1: Indoor Air Inlet Temperature: 27.0°C DB / 19.0°C WB Outdoor Air Inlet Temperature: 35.0°C DB T3: Indoor Air Inlet Temperature: 29.0°C DB / 19.0°C WB Outdoor Air Inlet Temperature: 46.0°C DB T4: Indoor Air Inlet Temperature: 26.6°C DB / 19.4°C WB Outdoor Air Inlet Temperature: 48.0°C DB Piping Length: 7.5 metre Piping Lift: 0 metre	<b>Heating Operation Conditions</b> Indoor Air Inlet Temperature: 20.0°C DB Outdoor Air Inlet Temperature: 8.3°C DB / 6.1°C WB Piping Length: 7.5 metre Piping Lift: 0 metre
--	--
- The sound pressure level is based on the following conditions:  
 1.0 metre from the unit service cover surface, and 1.5 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 1-2dB (A).  
 The above data was measured in an anechoic chamber. Therefore, reflected sound should be taken into consideration in the field.
- The width (outer dimension) is the value when the gap between the base outer units is specified at 20mm.

# Specifications



Model		RAS-64JNBBTQ	RAS-66JNBBTQ	RAS-68JNBBTQ	RAS-70JNBBTQ	RAS-72JNBBTQ		
		RAS-14JNBBTQ	RAS-14JNBBTQ	RAS-14JNBBTQ	RAS-16JNBBTQ	RAS-18JNBBTQ		
Combination of Base Units		RAS-14JNBBTQ	RAS-16JNBBTQ	RAS-18JNBBTQ	RAS-18JNBBTQ	RAS-18JNBBTQ		
		RAS-18JNBBTQ	RAS-18JNBBTQ	RAS-18JNBBTQ	RAS-18JNBBTQ	RAS-18JNBBTQ		
		RAS-18JNBBTQ	RAS-18JNBBTQ	RAS-18JNBBTQ	RAS-18JNBBTQ	RAS-18JNBBTQ		
Power Supply		[380-415V, 3N~, 50Hz] [380V, 3N~, 60Hz]						
Cooling (T1)	Capacity	kW	180.0	185.0	190.0	195.0	200.0	
		Btu/h	615,000	630,000	650,000	665,000	680,000	
	Power Input	kW	48.18	49.76	51.11	52.69	54.04	
EER		(Btu/h)/W	12.75	12.65	12.70	12.60	12.60	
		kW/kW	3.74	3.72	3.72	3.70	3.70	
	Capacity	kW	152.0	154.0	162.0	164.0	172.0	
Cooling (T3)		Btu/h	520,000	525,000	555,000	560,000	585,000	
	Power Input	kW	50.92	50.67	53.66	53.41	56.40	
	EER	(Btu/h)/W	10.20	10.35	10.35	10.50	10.35	
EER		kW/kW	2.99	3.04	3.02	3.07	3.05	
	Capacity	kW	126.0	126.9	135.0	135.9	144.0	
		Btu/h	430,000	435,000	460,000	465,000	490,000	
Cooling (T4)	Power Input	kW	41.82	42.23	45.31	45.72	48.80	
	EER	(Btu/h)/W	10.30	10.30	10.15	10.15	10.05	
		kW/kW	3.01	3.00	2.98	2.97	2.95	
Heating (4) (Nominal)	Capacity	kW	202.0	207.0	213.0	218.0	224.0	
		Btu/h	690,000	705,000	725,000	745,000	765,000	
	Power Input	kW	49.10	51.10	52.07	54.07	55.04	
COP		(Btu/h)/W	14.05	13.80	13.90	13.80	13.90	
		kW/kW	4.11	4.05	4.09	4.03	4.07	
Unit Color (Munsell Color System)		Natural White						
Max. Sound Pressure Level	Normal	dB (A)	69.0	69.5	69.5	70.0	70.0	
Dimensions	Unit	(H×W×D)	mm	1,725 × 5,712 × 782	1,725 × 5,712 × 782	1,725 × 6,102 × 782	1,725 × 6,102 × 782	1,725 × 6,492 × 782
	Net	kg	1,492	1,492	1,526	1,526	1,560	
Weight	Gross	kg	1,602	1,602	1,639	1,639	1,676	
	Type		R410A					
Refrigerant	Charge	kg	44.0	44.0	44.6	44.6	45.2	
	Quantity		8					
Compressor (Scroll)	Compressor Motor Output	kW	6.4 × 2 + 6.4 × 2 + 6.5 × 2 + 6.5 × 2	6.4 × 2 + 6.4 × 2 + 6.5 × 2 + 6.5 × 2	6.4 × 2 + 6.5 × 2 + 6.5 × 2 + 6.5 × 2	6.4 × 2 + 6.5 × 2 + 6.5 × 2 + 6.5 × 2	6.5 × 2 + 6.5 × 2 + 6.5 × 2 + 6.5 × 2	
	Quantity		8					
Condenser Fan (Propeller Fan)	Air Flow Rate	m <sup>3</sup> /min	256 + 256 + 329 + 329	256 + 256 + 329 + 329	256 + 329 + 329 + 329	256 + 329 + 329 + 329	329 + 329 + 329 + 329	
	Fan Motor Output	kW	0.39 × 2 + 0.39 × 2 + 0.48 × 2 + 0.48 × 2	0.39 × 2 + 0.39 × 2 + 0.48 × 2 + 0.48 × 2	0.39 × 2 + 0.48 × 2 + 0.48 × 2 + 0.48 × 2	0.39 × 2 + 0.48 × 2 + 0.48 × 2 + 0.48 × 2	0.48 × 2 + 0.48 × 2 + 0.48 × 2 + 0.48 × 2	
Liquid Line		mm[in.]	φ 22.2 (7/8)					
Gas Line		mm[in.]	φ 50.8 (2)					

NOTES:

- The cooling and heating performances are the values when combined with our specified indoor units.
 

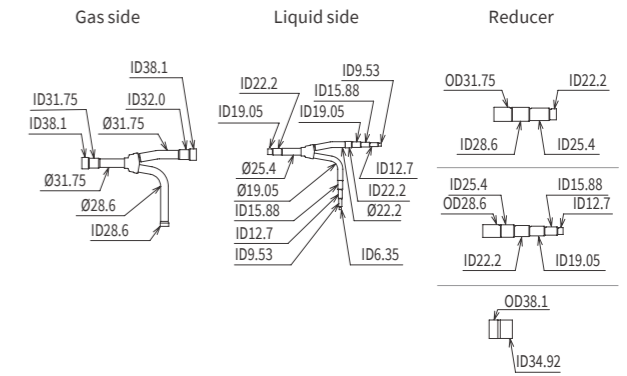
Cooling Operation Conditions T1: Indoor Air Inlet Temperature: 27.0°C DB / 19.0°C WB Outdoor Air Inlet Temperature: 35.0°C DB T3: Indoor Air Inlet Temperature: 29.0°C DB / 19.0°C WB Outdoor Air Inlet Temperature: 46.0°C DB T4: Indoor Air Inlet Temperature: 26.6°C DB / 19.4°C WB Outdoor Air Inlet Temperature: 48.0°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: 8.3°C DB / 6.1°C WB Piping Length: 7.5 metre Piping Lift: 0 metre
---	---
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 The above data is based on the cooling mode. In case of heating mode, the sound pressure level increases by approximately 1-2dB (A).  
 The above data was measured in an anechoic chamber. Therefore, reflected sound should be taken into consideration in the field.
- The width (outer dimension) is the value when the gap between the base outer units is specified at 20mm.

# Optional parts

## PIPING CONNECTION KIT

Model	Outdoor Unit Capacity	Number of Outdoor Units
M-20SNQ	20HP	2
M-30SNQ	22HP-26HP	2
M-46SNQ	28HP-36HP	2
M-46SNQ + M-30SNQ	38HP-48HP	3
M-68SNQ + M-30SNQ	50HP-54HP	3
M-68SNQ + M-30SNQ + M-30SNQ	56HP-72HP	4

### Example: M-30SNQ

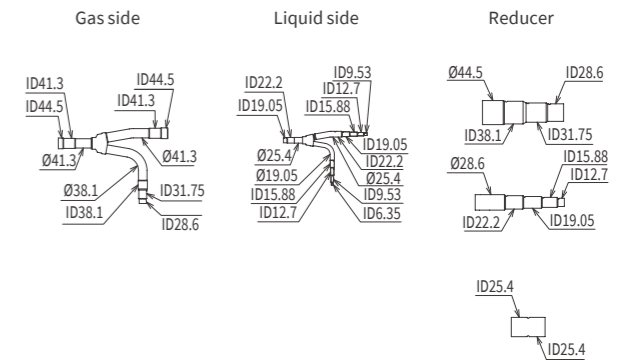


## MULTI-KIT

### 1) 1st branch Multi-kit

Main piping length < 100m		Main piping length ≥ 100m	
Model	Outdoor Unit Capacity	Model	Outdoor Unit Capacity
E-162SN	8-12HP	E-242SN	8-12HP
E-242SN	14-22HP	E-302SN	14-22HP
E-302SN	24-48HP	E-462SN	24-48HP
E-462SN	50-60HP	E-682SN	50-72HP
E-682SN	62-72HP		

### 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
	72.9 ≤ Q < 100.8	31.75	19.05
E-302SN	100.8 ≤ Q < 156.8	38.1	19.05
	156.8 ≤ Q < 190.4	44.45	19.05
E-462SN	190.4 ≤ Q < 207.2	44.45	22.2



The SET FREE  $\Sigma$  offers a variety of indoor units in its line-up to achieve comfortable air conditioning that flexibly addresses various applications and shapes of space. By raising the “quality” of the air, we believe that the “quality” of time customers spend there will also be enhanced.

# VRF INDOOR UNITS

29 Line-up summary

31 Our key indoor features

39 Indoor Air Quality

43 Solutions

43 Ducted units

- 45 High ESP [RPIH-HNAUN1Q, RPI-FSNQ, RPIH-HNAUB1Q] (AC) **NEW**
- High ESP [RPIH-HNDUSQ] (DC) **NEW**
- 46 Medium ESP [RPIM-HNAUN1Q, RPI-FSN3Q, RPIM-HNAUB1Q] (AC) **NEW**
- Low ESP [RPIL-HNAUN1Q] (AC) **NEW**
- 47 Compact [RPIZ-HNDTS1Q] (DC) **NEW**
- Compact [RPIZ-HNATN1Q] (AC) **NEW**

49 Ceiling cassettes

- 51 4-way cassette [RCI-FSKDN1Q] (DC) **NEW**
- 52 4-way compact cassette [RCIM-FSRE, RCIM-FSN4] (DC)

53 Other indoor units

- 55 Wall mounted [RPK-FSRM, RPK-FSN4M] (DC)
- 55 Wall mounted [RPK-HNBUSQ] (DC)
- 56 Floor/Ceiling convertible [RPFC-FSNQ] (AC)

57 Specifications & accessories



## Line-up summary

Over 10 types available!

### DUCTED | The ultimate invisibility.

**NEW**  
**HIGH ESP (AC)**  
 RPIH-HNAUN1Q, RPI-FSNQ, RPIH-HNAUB1Q



**NEW**  
**HIGH ESP (DC)**  
 RPIH-HNDUSQ



**NEW**  
**MEDIUM ESP (AC)**  
 RPIM-HNAUN1Q, RPI-FSN3Q, RPIM-HNAUB1Q



**NEW**  
**LOW ESP (AC)**  
 RPI-L-HNAUN1Q



**NEW**  
**COMPACT (AC)**  
 RPIZ-HNATN1Q



**NEW**  
**COMPACT (DC)**  
 RPIZ-HNDTS1Q



### CASSETTE | Consistent air reaching every corner of a room.

**NEW**  
**4-WAY CASSETTE (DC)**  
 RCI-FSKDN1Q



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



**4-WAY COMPACT CASSETTE (DC)**  
 RCIM-FSRE, RCIM-FSN4



### OTHERS | Minimal installation or retrofit works.

**WALL MOUNTED (DC)**  
 RPK-FSRM, RPK-FSN4M



**WALL MOUNTED (DC)**  
 RPK-HNBUSQ



**FLOOR/CEILING CONVERTIBLE (AC)**  
 RPFC-FSNQ





## Our key indoor features

Hitachi air, making a difference.

EXCLUSIVE

### GENTLECOOL (FOR COOLING OPERATION)



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

Without GentleCool, the unit might blow cooler air than expected when adjusting the indoor air temperature, causing a cool draft sensation at the beginning of operation.

With GentleCool, users have control over how discharged air reaches a preferred temperature setting, ensuring a smoother cooling down effect.

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

#### Potential discomfort.

>8.0°C  
→ COLD DRAFT

GentleCool  
**OFF**

#### GentleCool : no cold draft.

>12.0°C

GentleCool  
**OFF**

>14.0°C

GentleCool  
**LOW**

>16.0°C

GentleCool  
**MED**

EXCLUSIVE

### CROWD-SENSE: PREDICTIVE ADJUSTMENT TO OCCUPANCY VARIATIONS



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.

**TRADITIONAL CONTROL**

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

**CROWD-SENSE PREDICTIVE CONTROL**

a) Predicts and anticipates room temperature rise. Proactively increases air conditioning power to compensate for additional human heat sources.  
b) Room temperature remains stable.

#### Crowd-Sense action during heating.

**TRADITIONAL CONTROL**

a) The room temperature becomes too high.  
b) The air conditioning thermal operation turns off after detection of too hot room temperature.

**CROWD-SENSE PREDICTIVE CONTROL**

a) Predicts and anticipates room temperature rise. Proactively reduces air conditioning power to accommodate additional human heat sources.  
b) Room temperature remains stable.

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

Crowd-Sense may not be effective or might be less effective in the following cases:

- Multiple indoor units are in operation in the same zone.
- The difference between the radiant temperature of the room (floor and walls) and the radiant temperature of the human body is minimal.
- The room temperature is high before operation.
- During the heating process, when the number of occupants decreases.

# Our key indoor features

Hitachi air, making a difference.

## FEETWARM (FOR HEATING OPERATION)



RCI-FSKDN1Q  
P-API160NAE2  
OPT-EZJ01



PC-ARFG1

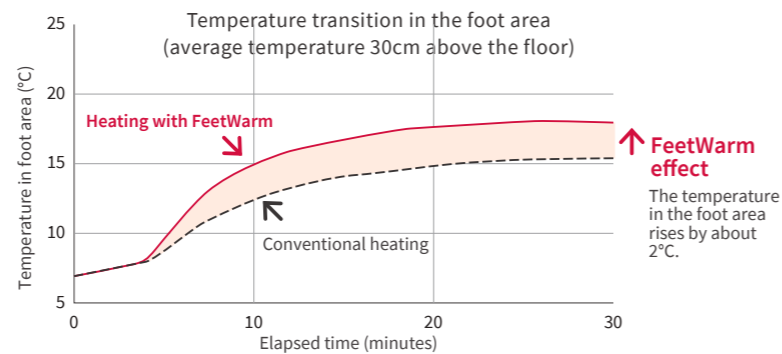
### Head to toe comfort during winter.

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.

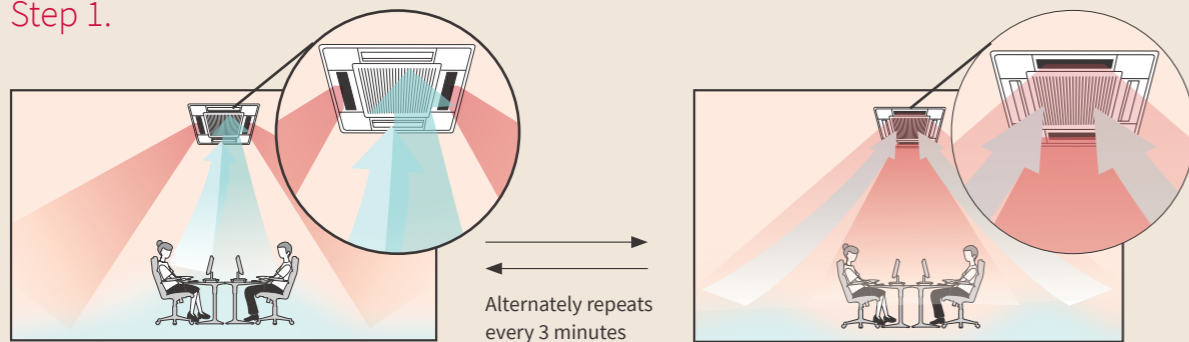
FeetWarm's boasts 4 intelligent features:

- 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.

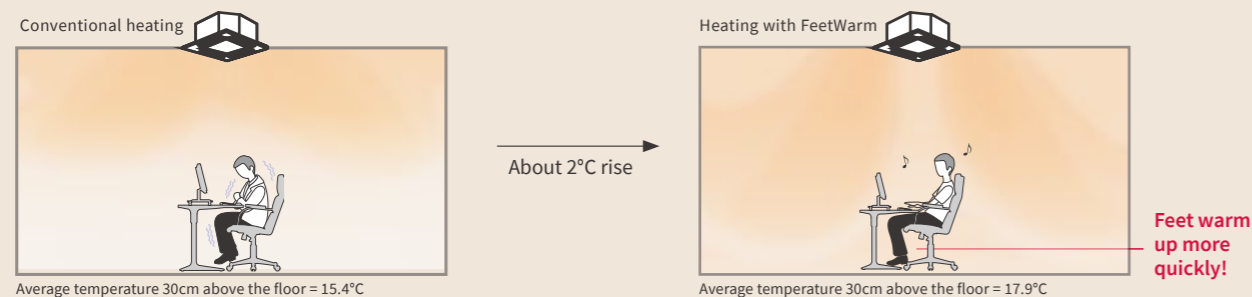


- 1 The radiant sensor detects a temperature drop in the floor and around your feet.
- 2 The cassette partially closes two louvers automatically.
- 3 The air flow strengthens through the two remaining open louvers, and targets the floor to warm it up quickly<sup>1</sup>. Louver openings alternate every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

<sup>1</sup> 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).

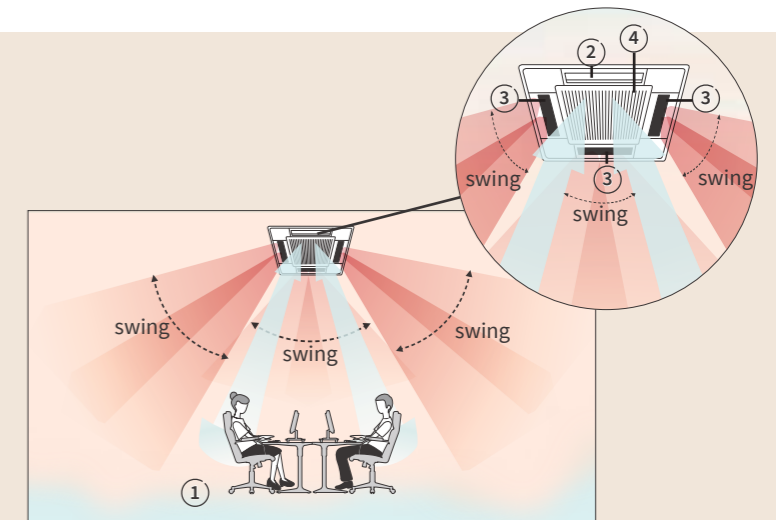


[Image based on calculation results]



### Step 2.

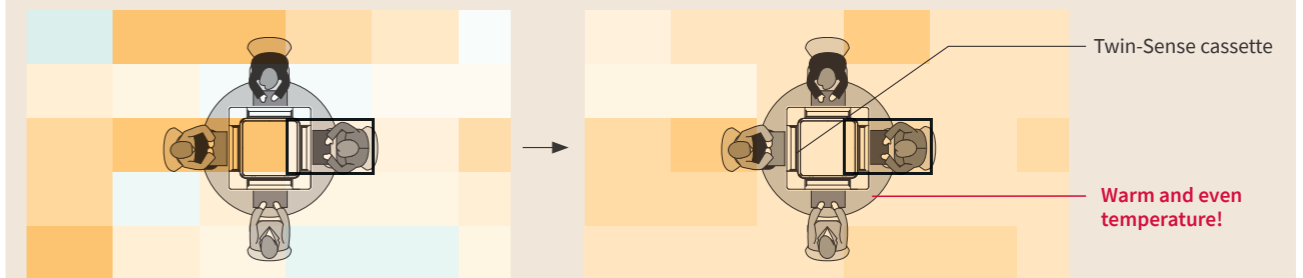
- 1 When the radiant temperature sensor detects that the lower level is no longer cold, FeetWarm shifts to its second step for a more even temperature everywhere in the room.
- 2 One louver remains closed.
- 3 Three remaining open louvers follow Auto-Swing air flow direction, continuously moving up/down. 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.

FeetWarm: Step 1 (end)

FeetWarm Step 2 (after 20min)

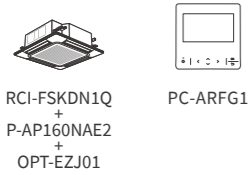


[Measurement condition Based on Hitachi research]. See simulation result under the following conditions above. Unit capacity: 8.0kW, room size: "height 3.2m, length 6.3m, width 6.3m", indoor initial temperature: 7 °C, outdoor temperature: 7 °C, indoor airflow temperature: 30 °C for 0-5 minutes, Gradually 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.

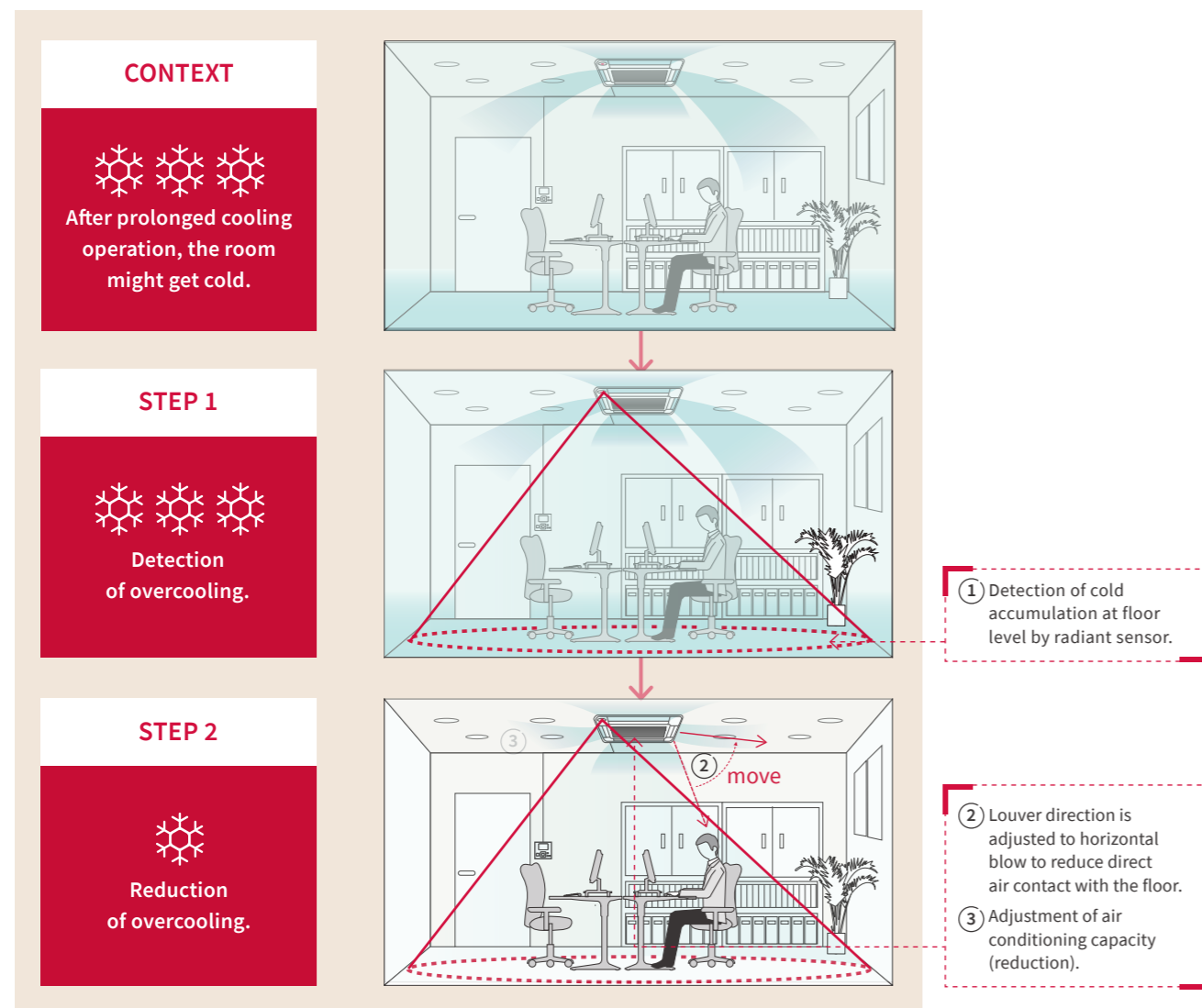
## FLOORSENSE COOL (FOR COOLING OPERATION)



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.\*<sup>1</sup>

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



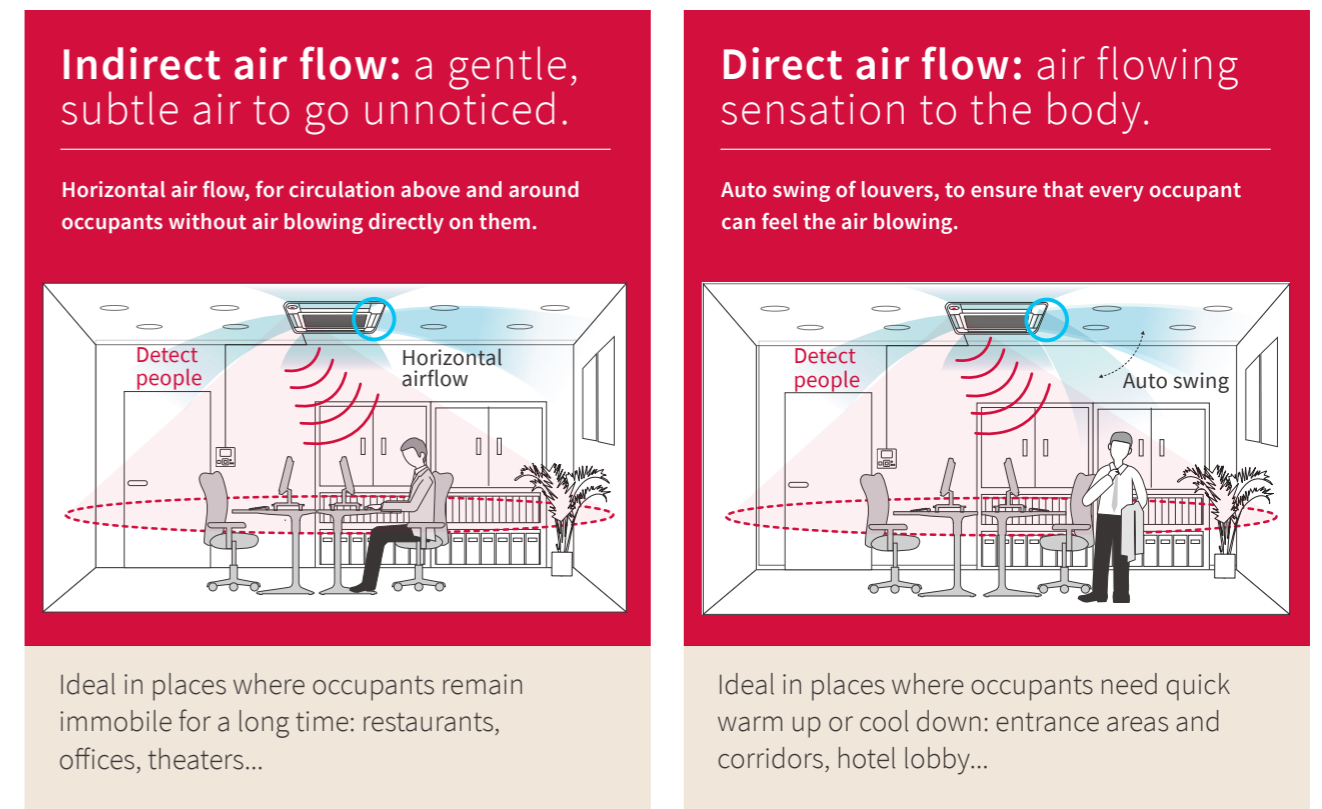
## CHOICE OF DIRECT OR INDIRECT AIR FLOW



Want to feel the air? Or do you prefer imperceptible air? Choose the preferred air sensation and let the air conditioner adjust 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.

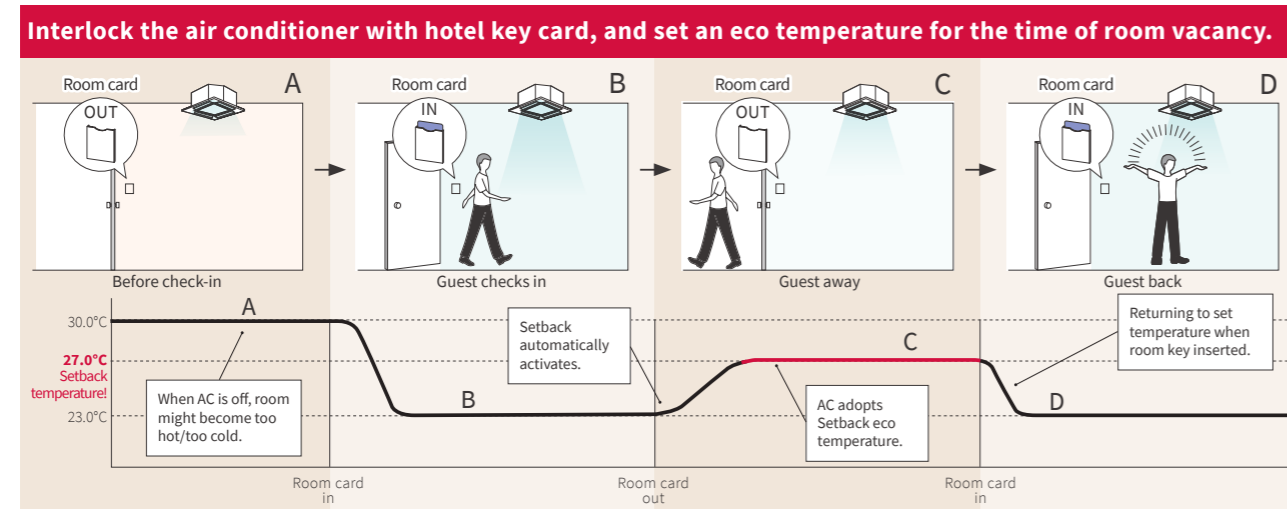


Notes:  
When room vacancy is detected, the air is directed in the way the controller (PC-ARFG) is set up. (Note) 4-zone motion sensor may not be effective in the following cases:  
- If the room is occupied but the movement is minimal, the system might consider the room as vacant.  
- If an object with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

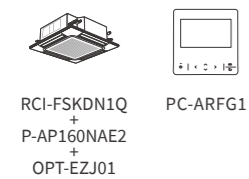
## Our key indoor features

Hitachi air, making a difference.

### HOTEL SETBACK



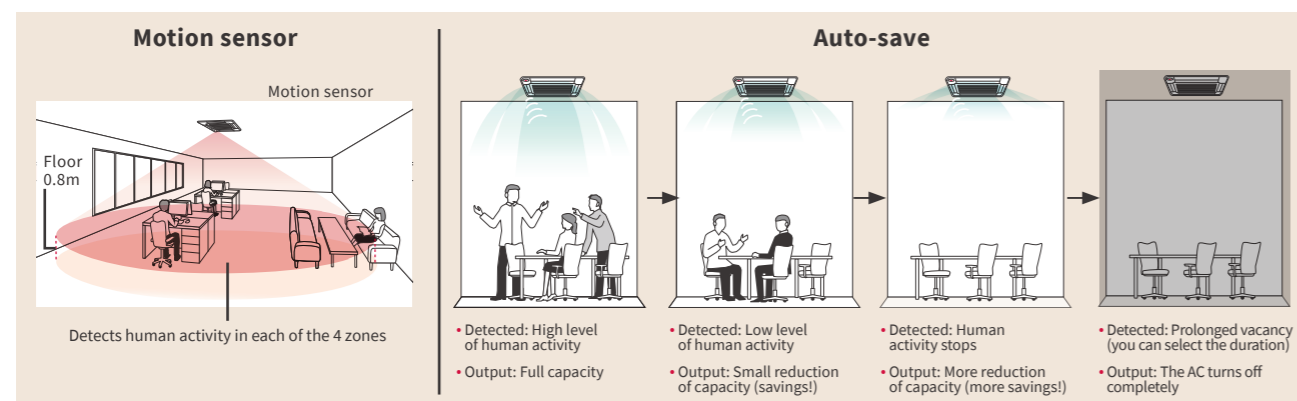
### AUTO-SAVE (WITH MOTION SENSOR)



Save more energy while improving comfort!

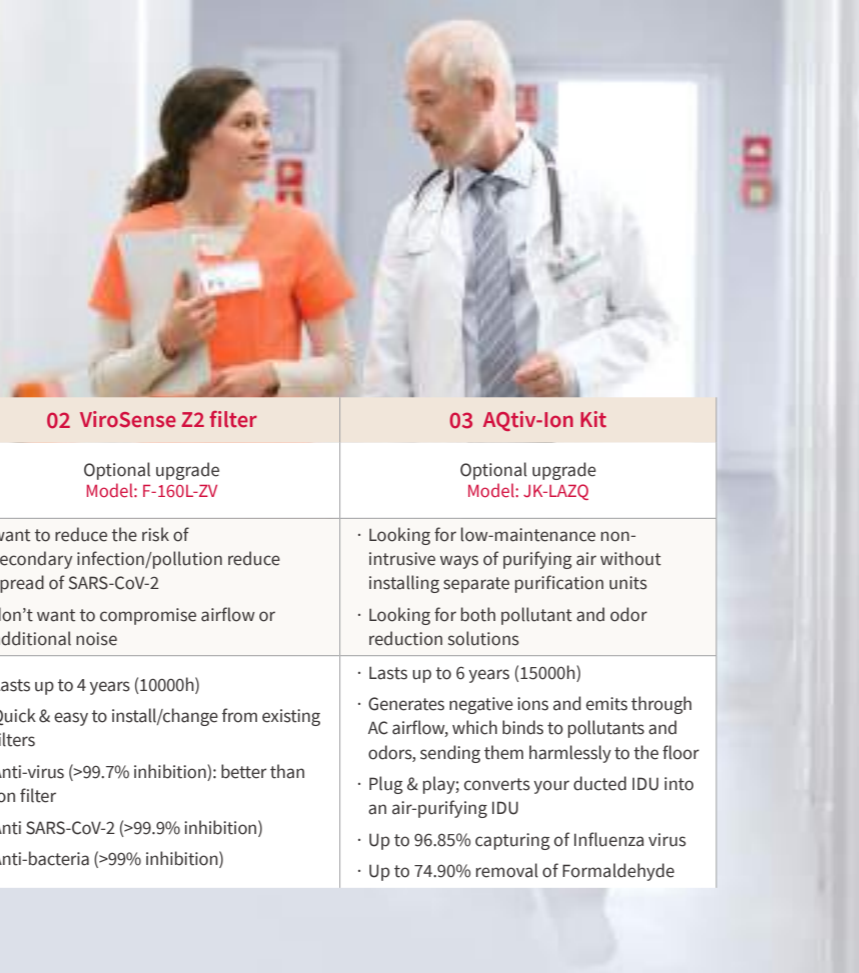
When adding a motion sensor to the indoor unit, auto-save function will adjust the air conditioning output to the human activity level.

### HOW DOES IT WORK?



# Indoor Air Quality

Live and work in harmony



## Hitachi IAQ accessory Line-up

	01 ViroSense S filter	02 ViroSense Z2 filter	03 AQtiv-Ion Kit
Type of purchase	Now fitted as standard	Optional upgrade Model: F-160L-ZV	Optional upgrade Model: JK-LAZQ
For those who...	<ul style="list-style-type: none"> <li>want to save additional cost</li> <li>want to create the cleaner indoor environment</li> </ul>	<ul style="list-style-type: none"> <li>want to reduce the risk of secondary infection/pollution reduce spread of SARS-CoV-2</li> <li>don't want to compromise airflow or additional noise</li> </ul>	<ul style="list-style-type: none"> <li>Looking for low-maintenance non-intrusive ways of purifying air without installing separate purification units</li> <li>Looking for both pollutant and odor reduction solutions</li> </ul>
Key Features	<ul style="list-style-type: none"> <li>Lasts up to 5 years (12500h)</li> <li>Anti-virus (&gt;99% inhibition)</li> <li>Anti-bacteria (&gt;99% inhibition)</li> <li>Anti-mold (100% growth stop)</li> </ul>	<ul style="list-style-type: none"> <li>Lasts up to 4 years (10000h)</li> <li>Quick &amp; easy to install/change from existing filters</li> <li>Anti-virus (&gt;99.7% inhibition): better than ion filter</li> <li>Anti SARS-CoV-2 (&gt;99.9% inhibition)</li> <li>Anti-bacteria (&gt;99% inhibition)</li> </ul>	<ul style="list-style-type: none"> <li>Lasts up to 6 years (15000h)</li> <li>Generates negative ions and emits through AC airflow, which binds to pollutants and odors, sending them harmlessly to the floor</li> <li>Plug &amp; play; converts your ducted IDU into an air-purifying IDU</li> <li>Up to 96.85% capturing of Influenza virus</li> <li>Up to 74.90% removal of Formaldehyde</li> </ul>

STANDARD-EQUIPPED FILTER

## VIROSENSE S FILTER

We have renewed our standard air filter for some of our Hitachi VRF indoor units with an 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-FSKDN1Q)
TWIN-SENSE 4-way Panel
White
P-AP160NAE2 + OPT-EZJ01

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



ViroSense Z2 filter

OPTIONAL ACCESSORY FILTER

## VIROSENSE Z2 FILTER



Model: F-160L-ZV

ViroSense Z2 filter can help reduce the risk of secondary solution and infection in a room. We have confirmed the proven effect that can inhibits certain viruses attached to the air conditioner's filter already before, and in 2022, we have confirmed that it can inhibit the SARS-CoV-2 as well under the laboratory test.

## BENEFITS



### SARS-CoV-2 Inhibition by over 99.9%

The efficiency of the ViroSense Z2 filter against SARS-CoV-2 been confirmed with inhibition rate up to more than 99.9%.



### Virus Inhibition by over 99.7%

The efficiency of the ViroSense Z2 filter against certain viruses has been confirmed with inhibition rate up to more than 99.7%.



### Bacteria removal by over 99%

Efficiency of ViroSense Z2 filter against Certain types of Bacterial has been confirmed too with inhibition rate up to more than 99%.



### Life span of up to 4 years

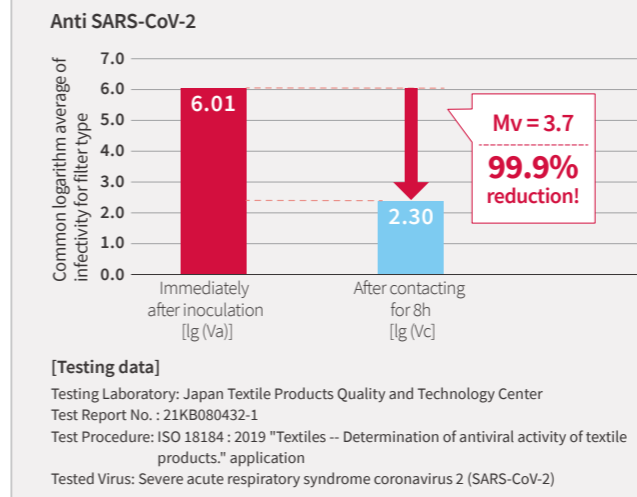
With regular maintenance and cleaning of the filter, the filter can have a life span of up to 4 years.



### Quick anti-virus transformation

Your existing 4-way cassette panel can be quickly adapted for the anti-virus version, once you change your existing filter to the ViroSense Z2 filter. The same, usual attachment!

## EFFICIENCY PROVEN



**Anti Virus**

**[Testing data]**

Testing Laboratory: Japan Textile Products Quality and Technology Center  
Test Report No. : 20KB-070036  
Tested Target: Feline infectious peritonitis virus ATCC VR-2127  
Test Procedure: Based on ISO 18184; Textiles -- Determination of antiviral activity of textile products  
Effect: Antiviral activity value (Mv) is at least 2.6 (>99.7% inhibition)

**Anti Bacteria**

**[Testing data]**

Testing Laboratory: Kaken Test Center  
Test Report: OS-20-09344-1  
Test target: (1) Staphylococcus aureus ATCC 6538 (2) Klebsiella pneumoniae ATCC 4352  
Test procedure: ISO 20743:2013 (Textiles - Determination of antibacterial activity of textile products)  
Effect: Antibacterial activity ratio is at least (1) 2.6 (>99% death ratio) (2) 3.1 (>99.9% death ratio)

## COMPATIBLE INDOOR UNITS WITH VIROSENSE Z2 FILTER

4-way Cassette (RCI-FSKDN1Q)	
Standardized Panel	TWIN-SENSE 4-way Panel
-	White
(Standard Equipped)	P-AP160NAE2 + OPT-EZJ01

# 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.

**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.



AQtiv-Ion Kit

**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



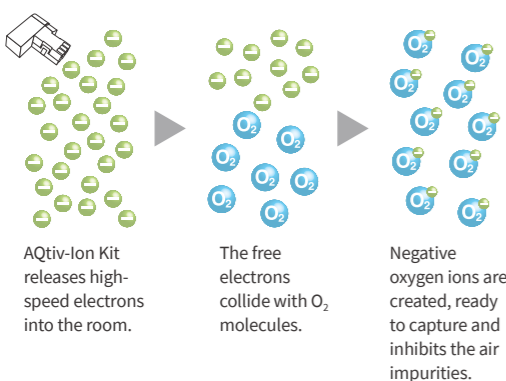
Removal of pollutants



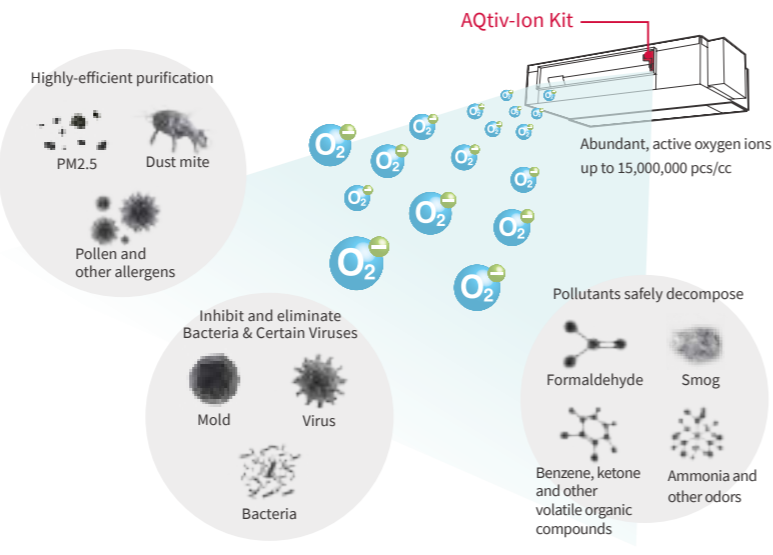
Active oxygen generation

**AQTIV-ION KIT TECHNOLOGY**

The AQtiv-Ion Kit generates negative ions, which when released into the air, combine with the oxygen (O<sub>2</sub>) naturally present in the air. These newly created oxygen molecules trap the impure particles, certain viruses and bacteria and deactivate them.



**Fight Against The Multiple Invisibles**



**AQTIV-ION KIT DEACTIVATION PERFORMANCE**

SARS-CoV-2 <b>-99.9%</b> (Inhibition rate)	Escherichia coli <b>-96.64%</b> (Inhibition rate)	Influenza virus <b>-96.85%</b> (Removal rate)	Staphylococcus aureus <b>-93.88%</b> (Inhibition rate)	PM2.5 <b>-94.46%</b> (Removal rate)	Formaldehyde <b>-74.90%</b> (Removal rate)	Ammonia <b>-73.20%</b> (Removal rate)
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**AQTIV-ION KIT APPLICATIONS**



Classroom

Condominium

Meeting Room

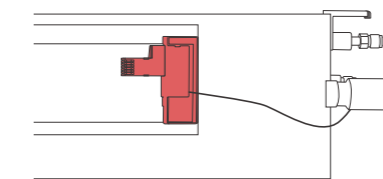
Hotel

**HOW TO INSTALL?**

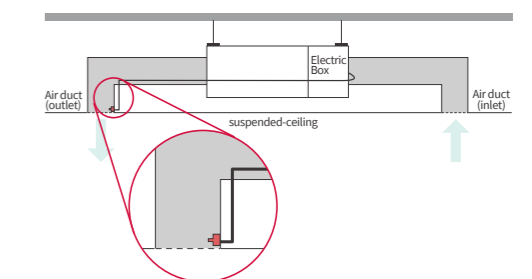
Plug and play!

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**

<b>HIGH ESP (AC)</b> RPIH-***HNAUN1Q RPIH-***HNAUB1Q	<b>HIGH ESP (DC)</b> RPIH-***HNDUSQ	<b>MEIDIUM ESP (AC)</b> RPIM-***HNAUN1Q RPIM-***HNAUB1Q	<b>LOW ESP (AC)</b> RPL-***HNAUN1Q	<b>COMPACT (AC)</b> RPIZ-***HNATN1Q	<b>COMPACT (DC)</b> RPIZ-***HNDTS1Q

# Solutions

## Ducted units

### AIR CONDITIONING TURNED INVISIBLE!

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

**NEW**



#### HIGH ESP (AC) [RPIH-HNAUN1Q, RPI-FSNQ, RPIH-HNAUB1Q]

- High ESP (90/120/180Pa).
- Slim & space saving design thanks to a height of 300mm only (RPIH-HNAUN1Q, RPIH-HNAUB1Q).
- 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)

**NEW**



#### MEDIUM ESP (AC) [RPIM-HNAUN1Q, RPI-FSN3Q, RPIM-HNAUB1Q]

- 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)

**NEW**



#### 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)

**NEW**



#### 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)

**NEW**



#### 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	5.0	5.6	6.3	7.1	8.0	8.4	9.0	11.2	14.0	14.2	16.0	18.0	22.4	28.0	
<b>NEW</b> HIGH ESP (AC) [RPIH-HNAUN1Q, RPI-FSNQ, RPIH-HNAUB1Q]												●	●	●		●	●		●	●	
<b>NEW</b> HIGH ESP (DC) [RPIH-HNDUSQ]																				●	●
<b>NEW</b> MEDIUM ESP (AC) [RPIM-HNAUN1Q, RPI-FSN3Q, RPIM-HNAUB1Q]		●	●	●		●	●	●	●	●										●	●
<b>NEW</b> LOW ESP (AC) [RPIL-HNAUN1Q]		●	●	●		●	●	●	●	●		●	●	●		●	●				
<b>NEW</b> COMPACT (AC) [RPIZ-HNATN1Q]		●	●	●	●		●	●	●	●											
<b>NEW</b> COMPACT (DC) [RPIZ-HNDTS1Q]		●	●	●	●		●	●	●	●											

### FEATURES COMPARISON

Model	NEW HIGH ESP (AC) RPIH-HNAUN1Q RPIH-HNAUB1Q	NEW HIGH ESP (DC) RPIH-HNDUSQ	HIGH/MEDIUM ESP (8/10HP) (AC) RPI-FSNQ RPI-FSN3Q	NEW MEDIUM/LOW ESP (AC) RPIM-HNAUN1Q RPIM-HNAUB1Q RPIH-HNAUN1Q	NEW COMPACT (AC) RPIZ-HNATN1Q	NEW COMPACT (DC) RPIZ-HNDTS1Q
Temperature Setting Rate	1.0°C	1.0°C	1.0°C	1.0°C	1.0°C	1.0°C
Fan Speed	3 taps	6 taps	1 tap	3 taps	3 taps	6 taps
Louver Direction	-	-	-	-	-	-
Individual Louver Setting	-	-	-	-	-	-
Auto Louver Setting	-	-	-	-	-	-
Dry mode Availability	●	●	●	●	●	●
Setback (Away Function)	-	-	-	-	-	-
Cold Draft Prevention (*1)(*4)	●	●	●	●	●	●
Comfort setting Control Cool Air (GentleCool) (*2)	-	-	-	-	-	-
Direct/Indirect louver direction in COOL	-	-	-	-	-	-
Direct/Indirect louver direction in HEAT	-	-	-	-	-	-
FeetWarm air flow control	-	-	-	-	-	-
FloorSense Cool air flow control	-	-	-	-	-	-
Power Saving with Motion Sensor (*2)	-	-	-	-	-	-
Outdoor Unit capacity control (*2)	Peak cut control	-	-	-	-	-
	Moderate control	-	-	-	-	-
Indoor Unit Rotation Control (*2)	Indoor Unit Address	-	-	-	-	-
	Indoor Air Temperature difference	-	-	-	-	-
Automatic Fan Operation	●	●	●	●	●	●
AutoBoost (quick function) (*2)	-	-	-	-	-	-
Daylight Saving Time	●	●	●	●	●	●
Power Consumption visualization (*2)	-	-	-	-	-	-
Weekly Schedule Setting	●	●	●	●	●	●
Power-Saving Setting (*2)	-	-	-	-	-	-
Filter cleaning reminder	●	●	●	●	●	●
Check Menu	Sensor Condition Check	●	●	●	●	●
	Model Display (*2)	-	-	-	-	-
	Indoor/Outdoor PCB Check	●	●	●	●	●
	Alarm History Display	●	●	●	●	●
Motion Sensor	-	-	-	-	-	-
Receiver Kit for wireless remote controller	PC-RLH11 PC-ALHZ1	PC-RLH11 PC-ALHZ1	PC-RLH11 PC-ALHZ1	PC-RLH11 PC-ALHZ1	PC-RLH11 PC-ALHZ1	PC-RLH11 PC-ALHZ1
Drain-up mechanism availability	DUPI-361Q	DUPI-810AQ	DUPI-15H2Q	DUPI-131Q DUPI-361Q	●(*3)	●(*3)
Air filter	KW-PP9/10Q	KW-PP14Q F-10LPIE F-10HP1E	-	KW-PP7/ 8/9/10Q	KW-PP5Q KW-PP6Q	KW-PP5Q KW-PP6Q
AQtiv-Ion Kit	●	●	-	●	●	●

(\*1) This function is utilized to prevent cold discharged air at start-up of heating operation, after defrosting operation, etc.

(\*2) Advanced wired remote controller PC-ARF1 needs to be connected.

(\*3) Included as standard equipment.

(\*4) Please consult your distributor.

#### AQtiv-Ion Kit



#### Leads to the better Indoor Air Quality

##### Features

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

# Solutions

## Ducted units

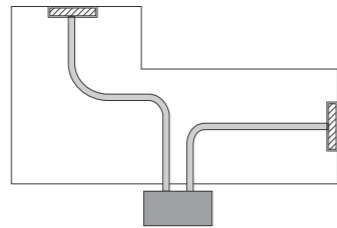


NEW

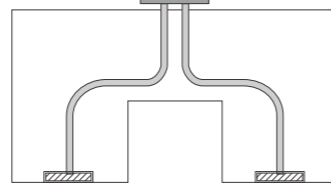
### HIGH ESP HIGH EXTERNAL STATIC PRESSURE (AC) [RPIH-HNAUN1Q, RPI-FSNQ, RPIH-HNAUB1Q]

- 1) High ESP. (90/120/180Pa)
- 2) Space saving design thanks to a height of only 300mm. (RPIH-HNAUN1Q, RPIH-HNAUB1Q)
- 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)

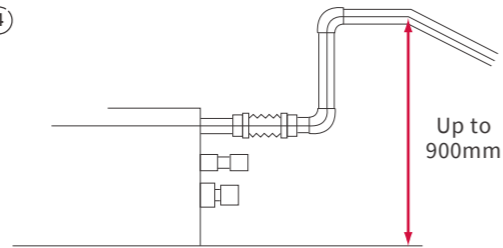
③ L-shaped space



U-shaped space



④

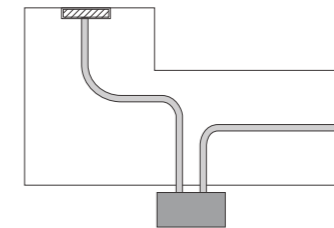


NEW

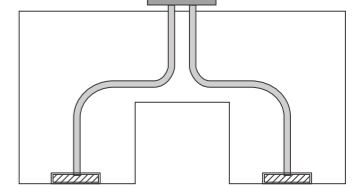
### MEDIUM ESP MEDIUM EXTERNAL STATIC PRESSURE (AC) [RPIM-HNAUN1Q, RPI-FSN3Q, RPIM-HNAUB1Q]

- 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)

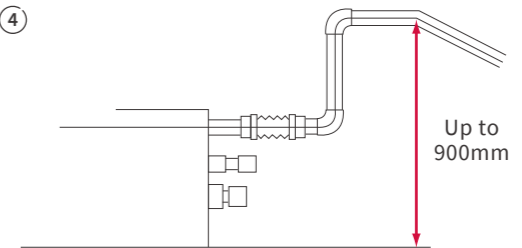
③ L-shaped space



U-shaped space



④

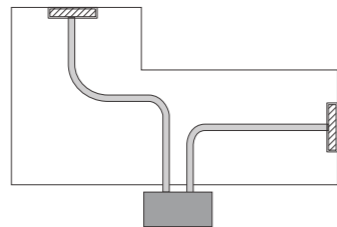


NEW

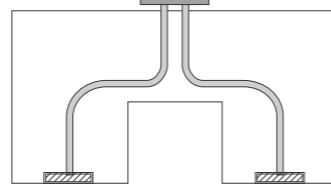
### HIGH ESP HIGH EXTERNAL STATIC PRESSURE (DC) [RPIH-HNDUSQ]

- 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)

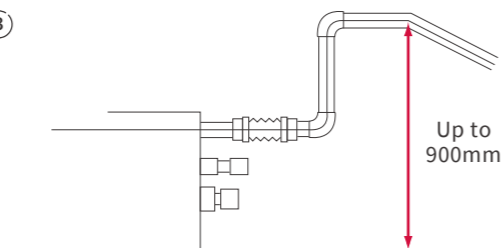
② L-shaped space



U-shaped space



③

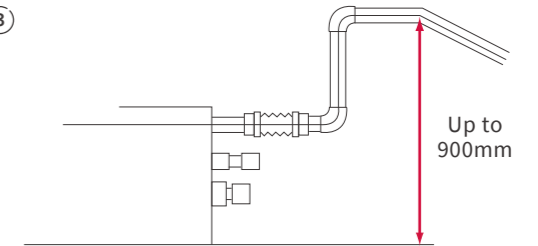


NEW

### 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





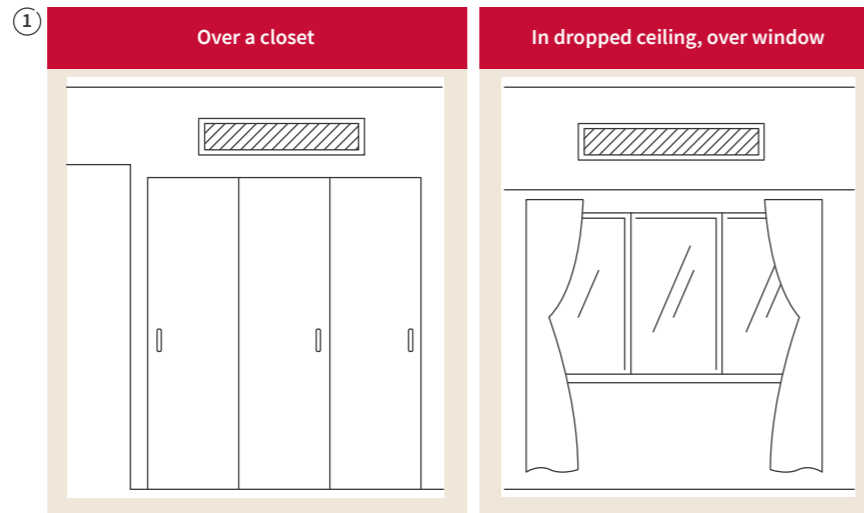
# Solutions

## Ducted units



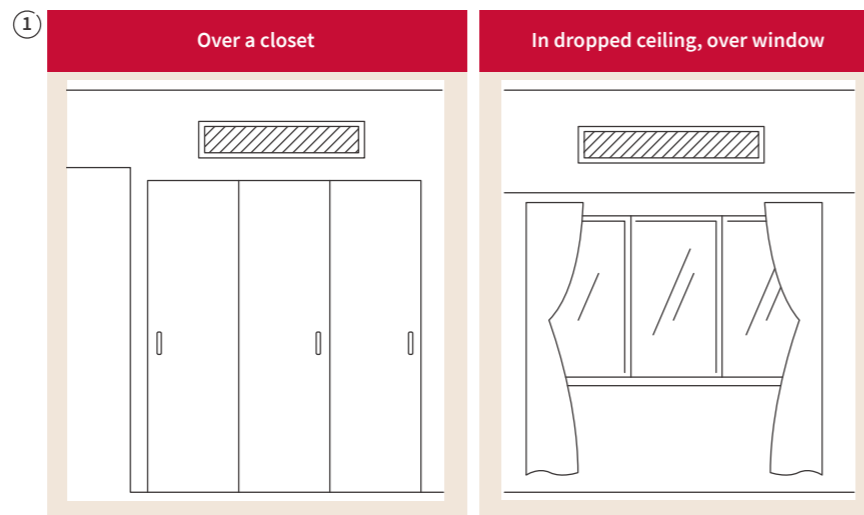
**NEW**  
**COMPACT**  
(AC) [RPIZ-HNATN1Q]

- 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 20dB(A))
- 4) Fan air flow rate up to 6 taps. (DC motor model only)
- 5) Compatible with AQtiv-Ion Kit (Optional accessory)



**NEW**  
**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)



# Solutions

## Ceiling cassettes

### PREMIUM DESIGN & INNOVATIVE FEATURES

Meet with our newly upgraded offer, for upgraded comfort!

**NEW**



#### 4-WAY CASSETTE (DC) [RCI-FSKDN1Q]

- With area of air distribution with 7 direction of louvers (distribution with distance available with optional parts (duct flange))
- Individual four-way louvers 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
- Compatible with ViroSense Z2 filter!
- ViroSense S filter as standard!



#### 4-WAY COMPACT CASSETTE (DC) [RCIM-FSRE, RCIM-FSN4]

- Made to give you greater design flexibility as the dimensions fit 600mmx600mm 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

### FROM 1.6KW TO 16KW

Ceiling cassettes	Cooling (kW)	1.6	2.2	2.8	4.0	5.6	6.3	7.1	8.0	11.2	14.0	16.0
<b>NEW</b> 4-WAY CASSETTE (DC) [RCI-FSKDN1Q]				●	●	●	●	●	●	●	●	●
4-WAY COMPACT CASSETTE (DC) [RCIM-FSRE, RCIM-FSN4]		●	●	●	●	●		●				

### FEATURES COMPARISON

Model	4-WAY CASSETTE TYPE (DC MOTOR TYPE)		4-WAY CASSETTE COMPACT TYPE (DC MOTOR TYPE)
	<b>NEW</b> RCI-FSKDN1Q		RCIM-FSRE, RCIM-FSN4
Temperature Setting Rate	0.5°C/1.0°C		0.5°C/1.0°C
Fan Speed	4 taps		4 taps
Louver Direction	7 (*4)		7 (*4)
Individual Louver Setting	●		●
Auto Louver Setting	●		●
Dry mode Availability	●		●
Setback (Away Function)	●		●
Cold Draft Prevention Availability (*1)	●		●
Comfort setting Control Cool Air (GentleCool) (*2)	●		●
Direct/Indirect louver direction in COOL	●		-
Direct/Indirect louver direction in HEAT	●		-
FeetWarm air flow control	●		-
FloorSense Cool air flow control	●		-
ViroSense S filter as standard	Standard Decoration panel P-AP160NAE2		-
Power Saving with Motion Sensor (*2)	●		●
Outdoor Unit capacity control (*2)	Peak cut control	●	●
	Moderate control	●	●
Indoor Unit Rotation Control (*2)	Indoor Unit Address	●	●
	Indoor Air Temperature difference	●	●
Automatic Fan Operation	●		●
AutoBoost (quick function) (*2)	●		●
Daylight Saving Time	●		●
Power Consumption visualization (*2)	●		●
Weekly Schedule Setting	●		●
Power-Saving Setting (*2)	●		●
Filter cleaning reminder	●		●
Check Menu	Sensor Condition Check	●	●
	Model Display (*2)	-	-
	Indoor/Outdoor PCB Check	●	●
	Alarm History Display	●	●
Colored Panel availability	-		-
Motion Sensor	P-AP160NAE2		SOR-NEC
Receiver Kit for wireless remote controller	HR4A10NEWQ PC-ALH3		PC-ALHC1
Drain-up mechanism availability	● (*3)		● (*3)
Fresh air intake accessory	-		● (*7)
Decoration Panel	Standard		P-AP56NAM P-AP56NAMR
Design Panel Silent-Iconic	-		-
ViroSense Z2 filter (optional) compatible with	Standard Decoration panel P-AP160NAE2		-
Air filter	-		-

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

#### ViroSense S filter



- Features**
- New filter as standard
  - Lasts up to 5 years (12500h)
  - Anti-virus (>99% inhibition)
  - Anti-bacteria (>99% inhibition)
  - Anti-mold 100% growth stop

#### ViroSense Z2 filter



- Features**
- Optional Accessory
  - Lasts up to 4 years (10000h)
  - Quick & easy to install/change from existing filters
  - Anti-virus (>99.7% inhibition): better than ion filter
  - Anti SARS-CoV-2 (>99.9% inhibition)



# Solutions

## Ceiling cassettes



**NEW**  
**4-WAY CASSETTE**  
(DC) [RCI-FSKDN1Q]

### DECORATION PANEL LINE-UP

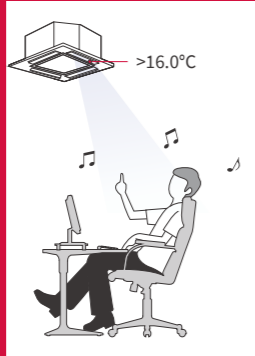
Normal	Smart
Standard Standard equipment	with motion sensor + radiant temperature sensor P-AP160NAE2 + OPT-EZJ01
	
(H×W×D) 40×950×950(mm)	(H×W×D) 40×950×950(mm)

## 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.



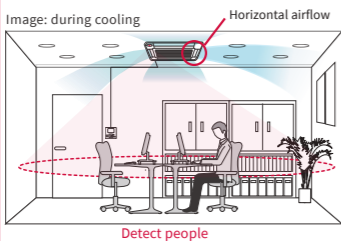
**FEETWARM**

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



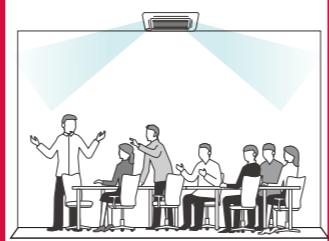
**FLOORSENSE COOL**

(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.

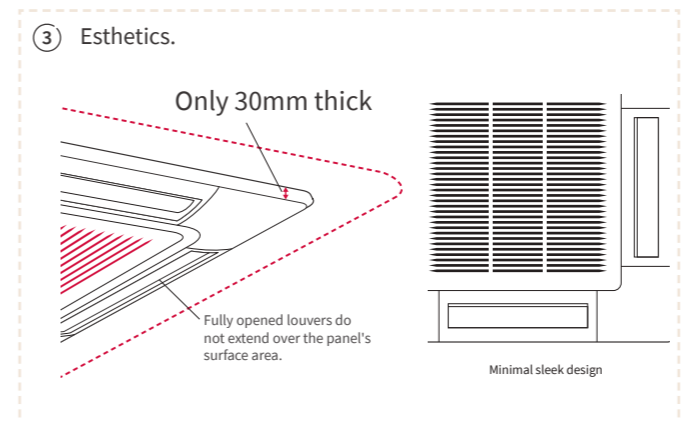
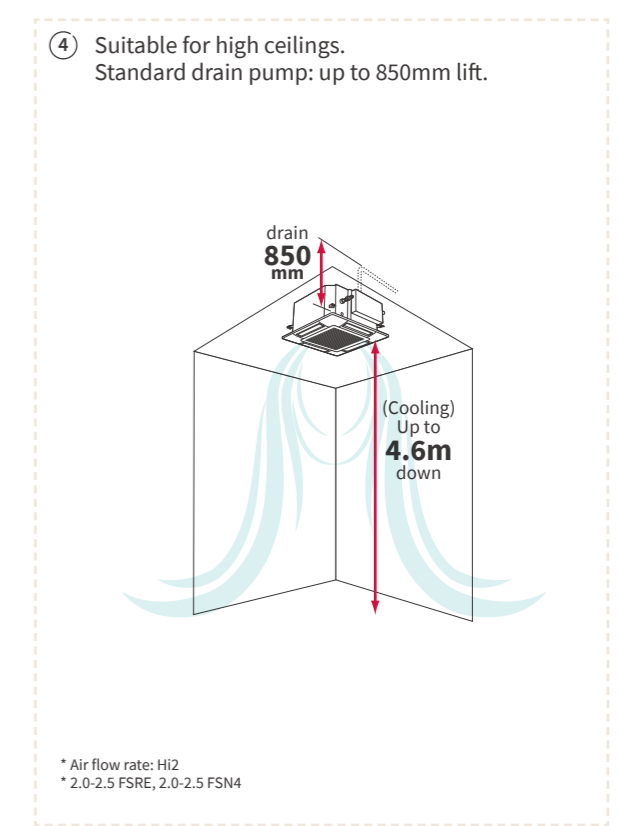
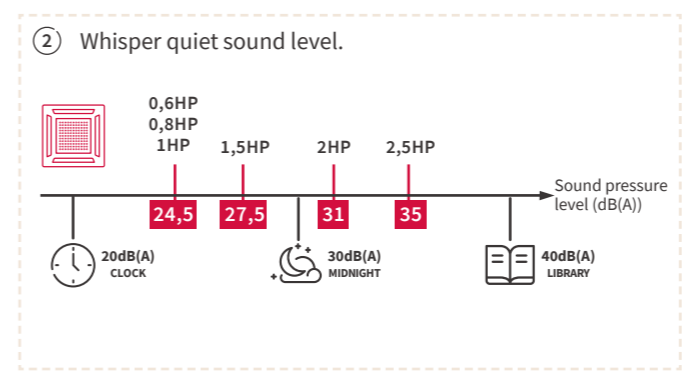
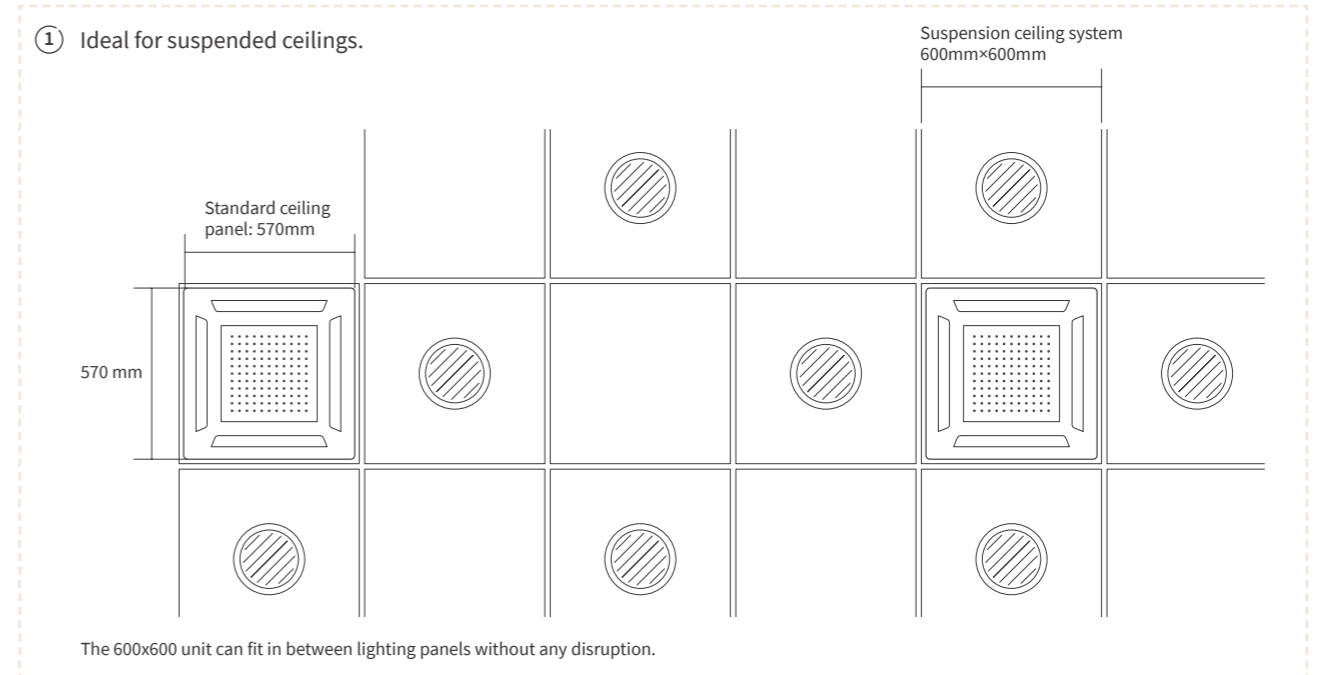


**EXCLUSIVE CROWD-SENSE**

(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, RCIM-FSN4]



# Solutions

## Other indoor units

### WIDE RANGE OF MODELS FOR MINIMAL INSTALLATION WORKS

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



#### WALL MOUNTED (DC) [RPK-FSRM, RPK-FSN4M]

- Simple installation procedure
- Flexible discreet design suitable for any interior
- Setback temperature control available, leading to better operation (RPK-FSRM).
- 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

### FROM 1.7KW TO 16KW

Concealed & exposed indoor units	Cooling (kW)	1.7	2.2	2.8	3.6	4.0	4.3	5.0	5.6	6.3	7.1	8.0	8.4	9.0	11.2	14.0	14.2	16.0
WALL MOUNTED (DC) [RPK-FSRM, RPK-FSN4M]											●	●			●			
WALL MOUNTED (DC) [RPK-HNBUSQ]			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
FLOOR / CEILING CONVERTIBLE (AC) [RPFC-FSNQ]								●	●	●	●	●	●	●	●	●	●	●



### FEATURES COMPARISON

Model	WALL MOUNTED		FLOOR/CEILING CONVERTIBLE
	RPK-FSRM RPK-FSN4M	RPK-HNBUSQ	RPFC-FSNQ
Temperature Setting Rate	0.5°C/1.0°C	1.0°C	1.0°C
Fan Speed	4 taps	6 taps	3 taps
Louver Direction	7 (*5)	7 (*5)	7 (*5)
Individual Louver Setting	-	-	-
Auto Louver Setting	-	●	-
Dry mode Availability	●	●	●
Setback (Away Function)	●	-	-
Cold Draft Prevention Availability (*1)(*6)	●	-	●
Comfort setting (*2)	●	-	-
Control Cool Air (GentleCool) (*2)	●	-	-
Direct/Indirect louver direction in COOL	-	-	-
Direct/Indirect louver direction in HEAT	-	-	-
FeetWarm air flow control	-	-	-
FloorSense Cool air flow control	-	-	-
Power Saving with Motion Sensor (*2)	-	-	-
Outdoor Unit capacity control (*2)	Peak cut control	●	-
	Moderate control	●	-
Indoor Unit Rotation Control (*2)	Indoor Unit Address	●	-
	Indoor Air Temperature difference	●	-
Automatic Fan Operation	●	●	●
AutoBoost (quick function)	●	-	-
Daylight Saving Time	●	●	●
Power Consumption visualization (*2)	●	-	-
Weekly Schedule Setting	●	●	●
Power-Saving Setting (*2)	●	-	-
Filter cleaning reminder	●	●	●
Check Menu	Sensor Condition Check	●	●
	Model Display (*2)	-	-
	Indoor/Outdoor PCB Check	●	●
	Alarm History Display	●	●
Motion Sensor	-	-	-
Receiver Kit for wireless remote controller	PC-ALHZ1	PC-RLH11 (*6) PC-ALHZ1	PC-RLH11 (*6) PC-ALHZ1
Drain-up mechanism availability	-	-	-
ViroSense S filter	-	-	-
Strainer kit	MSF-NP112A1	MSF-NP63A1	-

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

# Solutions

## Other indoor units



### WALL MOUNTED

(DC) [RPK-FSRM, RPK-FSN4M]

- 1) Simple installation procedure.
- 2) Flexible discreet design suitable for any interior.
- 3) Without expansion-valve model available for 0.6-1.5HP class for more silent operation.
- 4) **Hotel Setback** feature available, leading to better operation. (RPK-FSRM)
- 5) **GentleCool** control to ensure you are not bothered by cold draft. (RPK-FSRM)



### 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.

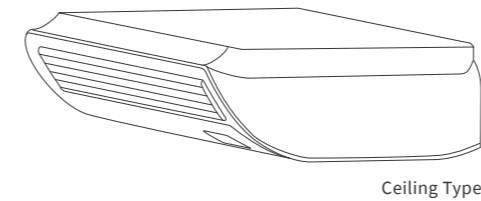


### FLOOR/CEILING CONVERTIBLE

(AC) [RPFC-FSNQ]

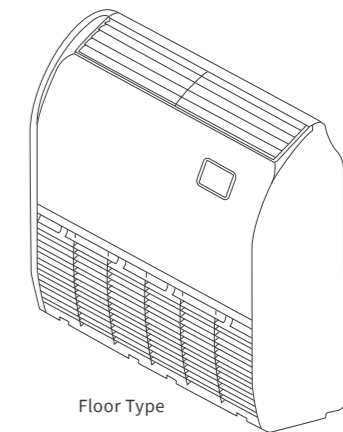


- ① **2-in-1 versatile unit.**  
**Ceiling-suspended installation.**  
Supplies air to a wide area. Suitable for higher ceilings.



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.



# Specifications & accessories



NEW

## 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 <sup>3</sup> /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 <sup>3</sup>	0.40	0.40	0.40	0.49	0.49	0.90	1.06	

Notes:

- 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  
 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  
 Piping Length:7.5 metre  
 Piping Lift:0 metre
- 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.
- The data for external pressure (\*3) indicates "Standard Pressure Setting values when a filter is not used.

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



NEW

## HIGH ESP HIGH EXTERNAL STATIC PRESSURE (AC) [RPIH-HNAUB1Q]

Model			RPIH-3.0HNAUB1Q	RPIH-3.3HNAUB1Q	RPIH-4.0HNAUB1Q	RPIH-5.0HNAUB1Q	RPIH-6.0HNAUB1Q	
Indoor Unit Power Supply			AC1Φ, [220V/60Hz]					
Nominal Capacity	Cooling	kW	8.4	9.0	11.2	14.2	16.0	
	Heating	kW	9.6	10.0	13.0	16.3	18.0	
Power input		kW	0.25	0.25	0.25	0.34	0.45	
Air flow	(Hi/Me/Lo)	m <sup>3</sup> /min	32/27.5/22.5	32/27.5/22.5	32/27.5/22.5	41/34/27.5	43/34.5/27	
Noise level	(Hi/Me/Lo)	dB(A)	43/40/34	43/40/34	43/40/34	46/41/36	48/42/37	
Outer Dimension	H×W×D	mm	300×(1100+75)×800	300×(1100+75)×800	300×(1100+75)×800	300×1,475×800	300×1,475×800	
Air outlet		mm	1036×195	1036×195	1036×195	1336×195	1336×195	
Air inlet		mm	1047×256	1047×256	1047×256	1347×256	1347×256	
Net Weight		kg	45	45	45	53	54	
External Static Pressure (*3)		Pa	120(90)	120(90)	120(90)	120(90)	120(90)	
Piping	Liquid Line	mm	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	
	Gas Line	mm	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	
Connection refrigerant piping			Flare-nut Connection (with Flare Nuts)					
Condensate Drain		mm	VP25(Outer Φ32)	VP25(Outer Φ32)	VP25(Outer Φ32)	VP25(Outer Φ32)	VP25(Outer Φ32)	
Packing measurement		m <sup>3</sup>	0.53	0.53	0.53	0.65	0.65	

NOTES:

- Cooling Operation Conditions  
 Indoor Air Inlet Temperature:.....27.0°C DB  
 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  
 Piping Length:7.5 metre  
 Piping Lift:0 metre
- The sound pressure level is based on following conditions  
 1.4 Meter Beneath the Unit. With Discharge Duct (2.0m) and Return Duct (1.0m). Voltage of the power source for the indoor fan motor is 220V. In case of the power source of 240V, the sound pressure level increases by about 1-2 dB. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.
- The data for external pressure (\*3) indicates "Standard Pressure Setting values when a filter is not used.

Receiver Kit	Basic	PC-RLH11
	Advanced	PC-ALHZ1
Condensate Drain Pump Kit		DUPI-361Q
Air filter	3.0-4.0 (HP class)	KW-PP9Q
	5.0-6.0 (HP class)	KW-PP10Q
AQtiv-Ion Kit		JK-LZAQ

NEW

## HIGH ESP HIGH EXTERNAL STATIC PRESSURE (DC) [RPIH-HNDUSQ]



Model			RPIH-8.0HNDUSQ	RPIH-10.0HNDUSQ
Indoor Unit Power Supply			AC1Φ, [220-240V/50Hz] [220V/60Hz]	
Nominal Cooling	kW		23.2	28.6
Capacity (*1)	kcal/h		20,000	24,600
	Btu/h		79,200	97,600
Nominal Cooling	kW		22.4	28.0
Capacity (*2)	kcal/h		19,300	24,100
	Btu/h		76,500	95,600
Cooling Power Consumption	kW		0.49	0.83
Nominal Heating	kW		25.0	31.5
Capacity	kcal/h		21,500	27,100
	Btu/h		85,300	107,500
Heating Power Consumption	kW		0.49	0.83
Sound Pressure Level (Overall A Scale) (*4)	dB		49/48/47/46/45/44	53/52/50/49/47/45
Outer Dimensions	H×W×D	mm	470×1,250×1,120	470×1,250×1,120
Net Weight	kg		104	104
	(lbs.)		(229)	(229)
Refrigerant			R410A (Nitrogen-Charged for Corrosion-Resistance)	
Indoor Fan Air Flow Rate (Hi/Me/Lo)	m <sup>3</sup> /h (cfm)		3420/3240/3120/3060/2940/2850 (2012/1906/1835/1800/1730/1677)	4320/4080/3900/3660/3450/3000 (2541/2400/2294/2153/2030/1765)
External Pressure (*3)	Pa		150	150
Connections			Brazing connection	
Refrigerant Piping	Liquid Line	mm	Φ9.53	Φ9.53
	Gas Line (*5)	mm	Φ22.2	Φ22.2
Condensate Drain			VP25	VP25
Approximate Packing Measurement	m <sup>3</sup>		1.08	1.08

Receiver Kit	Basic	PC-RLH11	Normal Filter	KW-PP14Q
	Advanced	PC-ALHZ1		Coarse Filter
Condensate Drain Pump Kit		DUPI-810AQ	ePM10 Filter	F-10HP1E
			Filter Box	FB-10PIE
AQtiv-Ion Kit				JK-LZAQ

Notes:

- The nominal cooling capacity is the combined capacity of the standard split system.  
 Cooling Operation Conditions  
 Indoor Air Inlet Temperature:.....27.0°C DB  
 Outdoor Air Inlet Temperature:.....19.5°C WB  
 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  
 Piping Length:7.5 metre  
 Piping Lift:0 metre
- The sound pressure level is based on following conditions. With Discharge Duct (2.0m) and Return Duct (1.0m). Voltage of the power source for the indoor fan motor is 220V. In case of the power source of 240V, the sound pressure level increases by about 1dB. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.
- The data for external pressure (\*3) indicates "Standard Pressure Setting values when a filter is not used.
- (\*4) The noise value is 150Pa corresponding value.
- (\*5) The size of 8HP gas pipe is Φ22.2mm when leaving the factory, and the diameter can be changed to 19.05mm after welding the adapter pipe.



# Specifications & accessories



NEW

## MEDIUM ESP MEDIUM EXTERNAL STATIC PRESSURE (AC) [RPIM-HNAUB1Q]

Model			RPIM-0.8HNAUN1Q	RPIM-1.0HNAUN1Q	RPIM-1.3HNAUN1Q	RPIM-1.5HNAUN1Q	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 <sup>3</sup> /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)									Braze 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 <sup>3</sup>	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.



NEW

## MEDIUM ESP MEDIUM EXTERNAL STATIC PRESSURE (AC) [RPIM-HNAUB1Q]

Model			RPIM-0.8HNAUB1Q	RPIM-1.0HNAUB1Q	RPIM-1.3HNAUB1Q	RPIM-1.5HNAUB1Q	RPIM-1.8HNAUB1Q	RPIM-2.0HNAUB1Q	RPIM-2.3HNAUB1Q	RPIM-2.5HNAUB1Q
Indoor Unit Power Supply			AC1Φ, [220V/60Hz]							
Nominal Capacity	Cooling	kW	2.2	2.8	3.6	4.3	5.0	5.6	6.3	7.1
	Heating	kW	2.8	3.3	4.2	4.9	5.6	6.5	7.5	8.5
Power input		kW	0.1	0.1	0.1	0.1	0.14	0.14	0.19	0.19
Air flow	(Hi/Me/Lo)	m <sup>3</sup> /min	10.5/8/6.5	10.5/8/6.5	10.5/8/6.5	10.5/8/6.5	18/15.5/12	18/15.5/12	21/15.5/11.5	21/15.5/11.5
Noise level	(Hi/Me/Lo)	dB(A)	34/29.5/25	34/29.5/25	34/29.5/25	34/29.5/25	38.5/36.3/29.5	38.5/36.3/29.5	41/34/27	41/34/27
Outer Dimension	H×W×D	mm	270×(650+75)×720	270×(650+75)×720	270×(650+75)×720	270×(650+75)×720	270×(900+75)×720	270×(900+75)×720	270×(900+75)×720	270×(900+75)×720
Air outlet		mm	582×138	582×138	582×138	582×138	832×138	832×138	832×138	832×138
Air inlet		mm	606×225	606×225	606×225	606×225	856×225	856×225	856×225	856×225
Net Weight		kg	23	23	24	24	31	31	32	32
External Static Pressure (*3)		Pa	50(80)	50(80)	50(80)	50(80)	50(80)	50(80)	50(80)	50(80)
Piping	Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53	Φ9.53
	Gas Line	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88
Connection refrigerant piping			Flare-nut Connection (with Flare Nuts)							
Condensate Drain		mm	VP25(Outer Φ32)	VP25(Outer Φ32)	VP25(Outer Φ32)	VP25(Outer Φ32)	VP25(Outer Φ32)	VP25(Outer Φ32)	VP25(Outer Φ32)	VP25(Outer Φ32)
Packing measurement		m <sup>3</sup>	0.30	0.30	0.30	0.30	0.38	0.38	0.38	0.38

Receiver Kit	Basic	PC-RLH11
	Advanced	PC-ALHZ1
Condensate Drain Pump Kit	0.8-2.5 (HP class)	DUPI-131Q
Air filter	0.8-1.5 (HP class)	KW-PP7Q
	1.8-2.5 (HP class)	KW-PP8Q
AQtiv-Ion Kit		JK-LZAQ

NOTES:  
 1. 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 Meter Beneath the Unit. With Discharge Duct (2.0m) and Return Duct (1.0m). Voltage of the power source for the indoor fan motor is 220V. (In case of the power source of 240V, the sound pressure level increases by about 1~2 dB. 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.



NEW

## 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 <sup>3</sup> /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 <sup>3</sup>	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 <sup>3</sup> /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 <sup>3</sup>	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.

# Specifications & accessories



**NEW**  
**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 <sup>3</sup> /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	Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52
Diameter	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 <sup>3</sup>	0.142	0.142	0.142	0.15	0.18	0.18	0.18	0.18

Receiver Kit	Basic	PC-RLH11
	Advanced	PC-ALHZ1
Condensate Drain Pump Kit	- (included as standard equipment)	

Air filter	0.8-1.5 (HP)	KW-PP5Q
	1.8-2.5 (HP)	KW-PP6Q
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	Heating Operation Conditions
Indoor Air Inlet Temperature:.....27.0°C DB 19.0°C WB	Indoor Air Inlet Temperature:.....20.0°C DB Outdoor Air Inlet Temperature:.....7.0°C DB 6.0°C WB
Outdoor Air Inlet Temperature:.....35.0°C DB	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.



**NEW**  
**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 <sup>3</sup> /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	Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52
Diameter	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 <sup>3</sup>	0.142	0.142	0.142	0.15	0.18	0.18	0.18	0.18

Receiver Kit	Basic	PC-RLH11
	Advanced	PC-ALHZ1
Condensate Drain Pump Kit	- (included as standard equipment)	

Air filter	0.8-1.5 (HP)	KW-PP5Q
	1.8-2.5 (HP)	KW-PP6Q
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	Heating Operation Conditions
Indoor Air Inlet Temperature:.....27.0°C DB 19.0°C WB	Indoor Air Inlet Temperature:.....20.0°C DB Outdoor Air Inlet Temperature:.....7.0°C DB 6.0°C WB
Outdoor Air Inlet Temperature:.....35.0°C DB	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.



**NEW**  
**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	(Hi/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	(Hi/Hi/Me/Lo)	m <sup>3</sup> /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	Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
Diameter	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 <sup>3</sup>	0.21	0.21	0.21	0.21	0.21	0.25	0.25	0.25	0.25

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

Condensate Drain Pump Kit	- (Standard)
ViroSense Z2 filter	F-160L-ZV
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	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:.....7.0°C DB (45.0°F DB) 6.0°C WB (43.0°F WB)
Outdoor Air Inlet Temperature:.....35.0°C DB (95.0°F DB)	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, [220-240V/50Hz]						
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	(Hi/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	(Hi/Hi/Me/Lo)	m <sup>3</sup> /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	Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.52
Diameter	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 <sup>3</sup>	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	Heating Operation Conditions
Indoor Air Inlet Temperature:.....27.0°C DB 19.0°C WB	Indoor Air Inlet Temperature:.....20.0°C DB Outdoor Air Inlet Temperature:.....7.0°C DB 6.0°C WB
Outdoor Air Inlet Temperature:.....35.0°C DB	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.



# Specifications & accessories



## 4-WAY CASSETTE COMPACT (DC) [RCIM-FSN4]

Model	RCIM-0.6FSN4	RCIM-0.8FSN4	RCIM-1.0FSN4	RCIM-1.5FSN4	RCIM-2.0FSN4	RCIM-2.5FSN4	
Indoor Unit Power Supply AC 1Φ, [220V-60Hz]							
Nominal Capacity	Cooling	kW 1.6	2.2	2.8	4.0	5.6	7.1
	Heating	kW 1.9	2.5	3.2	4.8	6.3	8.5
Sound Pressure Level	(Hi2/Hi/Me/Lo)	dB(A) 34/30/28/24.5	36/33/29/24.5	38/34/30/24.5	41/37/33/27.5	45/39/35/31	47/43/39/35
Outer Dimension	(H×W×D)	mm 285×570×570	285×570×570	285×570×570	285×570×570	285×570×570	285×570×570
Net Weight		kg 16	16	16	16	17	17
Refrigerant		R410A	R410A	R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi2/Hi/Me/Lo)	m³/min 10/8.5/7.5/6	11/9.5/8/6	12/10/8.5/6	13/11/9.5/7	15/12/10/8	16/14/12/10
Connections Flare-Nut Connection (with Flare Nuts)							
Refrigerant Piping Diameter	Liquid Line	mm Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.52
	Gas Line	mm Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88
Condensate Drain		VP25	VP25	VP25	VP25	VP25	VP25
Approximate Packing Volume		m³ 0.13	0.13	0.13	0.13	0.13	0.13
Decoration panel		P-AP56NAM		Motion Sensor		SOR-NEC	
Decoration panel with Receiver kit	Advanced	P-AP56NAMR		Condensate Drain Pump Kit		- (Standard)	
Receiver kit	Advanced	PC-ALHC1		Duct Adapter		PD-75C	

Notes:

- 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	Heating Operation Conditions Indoor Air Inlet Temperature:.....20.0°C DB Outdoor Air Inlet Temperature:.....7.0°C DB 6.0°C WB
Outdoor Air Inlet Temperature:.....35.0°C DB Piping Length:7.5 metre Piping Lift:0 metre	Piping Length:7.5 metre Piping Lift:0 metre
- 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.
- RCIM-0.6FSRE cannot be connected to HNRQ series.  
Please refer to the technical catalogue for the details.



## WALL MOUNTED (DC) [RPK-FSRM, RPK-FSN4M]

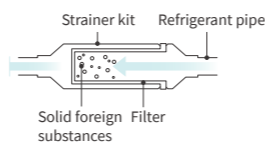
Type	Expansion Valve built-in type			Expansion Valve built-in type			
Model	RPK-2.5FSRM	RPK-3.0FSRM	RPK-4.0FSRM	RPK-2.5FSN4M	RPK-3.0FSN4M	RPK-4.0FSN4M	
Indoor Unit Power Supply AC 1Φ, [220-240V/50Hz] [220V/60Hz]							
Nominal Capacity	Cooling	kW 7.1	8.0	11.2	7.1	8.0	11.2
	Heating	kW 8.5	9.0	12.5	8.5	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	45/42/38/35	47/44/40/35	51/48/44/39
Color		White		White			
Outer Dimension	(H×W×D)	mm 300×1,100×260	300×1,100×260	300×1,100×260	300×1,100×260	300×1,100×260	
Net Weight		kg 15	15	15	15	15	
Refrigerant		R410A	R410A	R410A	R410A	R410A	
Indoor Fan Air Flow Rate	(Hi2/Hi/Me/Lo)	m³/min 18.5/16.5/14/12	20/17.5/15.5/12.5	23/20/17.5/14.5	18.5/16.5/14/12	20/17.5/15.5/12.5	23/20/17.5/14.5
Motor		38	38	38	38	38	
Connections Flare-Nut Connection (with Flare Nuts)							
Refrigerant Piping Diameter	Liquid Line	mm Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	
	Gas Line	mm Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	
Condensate Drain		VP16	VP16	VP16	VP16	VP16	
Approximate Packing Volume		m³ 0.14	0.14	0.14	0.14	0.14	
Accessory included		Wall Mounting Bracket		Wall Mounting Bracket			
Receiver kit	Advanced	PC-ALHZ1					
Strainer kit		MSF-NP112A1					

Notes:

- 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	Heating Operation Conditions Indoor Air Inlet Temperature:.....20.0°C DB Outdoor Air Inlet Temperature:.....7.0°C DB 6.0°C WB
Outdoor Air Inlet Temperature:.....35.0°C DB Piping Length: 7.5 metre Piping Lift: 0 metre	Piping Length: 7.5 metre Piping Lift: 0 metre
- 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)	m³/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		m³ 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:

- 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)	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)
Outdoor Air Inlet Temperature:.....35.0°C DB (95.0°F DB) Piping Length:7.5 metre Piping Lift:0 metre	Piping Length:7.5 metre Piping Lift:0 metre
- The sound pressure level is based on following conditions.  
1.0 metre Beneath the unit.  
1.0 metre from Discharge grille.  
The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.  
When bottom air inlet is adopted, sound pressure will increase according to factors such as installation mode and the room structure.

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



Model	RPFC-1.8FSNQ	RPFC-2.0FSNQ	RPFC-2.3FSNQ	RPFC-2.5FSNQ	RPFC-3.0FSNQ	RPFC-3.3FSNQ	RPFC-4.0FSNQ	RPFC-5.0FSNQ	
Indoor Unit Power Supply AC 1Φ, [220-240V/50Hz] [220V/60Hz]									
Nominal Capacity	Cooling	kW 5.0	5.6	6.3	7.1	8.4	9.0	11.2	14.2
	Heating	kW 5.6	6.5	7.5	8.5	9.6	10.0	13.0	16.3
Sound Pressure Level	Ceiling Mode	dB(A) 39/35/30	39/35/30	45/41/37	45/41/37	43/39/34	45/40/36	51/46/40	50/46/42
	Floor Mode	dB(A) 43/38/35	43/38/35	48/44/40	48/44/40	46/41/37	48/43/39	54/49/43	55/50/46
Outer Dimension	(H×W×D)	mm 230×990×680	230×990×680	230×990×680	230×990×680	230×1,285×680	230×1,285×680	230×1,285×680	230×1,580×680
Net Weight		kg 31	31	32	32	39	40	41	47
Refrigerant		R410A	R410A	R410A	R410A	R410A	R410A	R410A	
Indoor Fan Air Flow Rate	(Hi/Me/Lo)	m³/h 780/660/540	780/660/540	966/840/678	966/840/678	1,092/912/732	1,164/978/798	1,488/1,230/978	1,980/1,680/1,380
Connections Flare-Nut Connection (with Flare Nuts)									
Refrigerant Piping Diameter	Liquid Line	mm Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	
	Gas Line	mm Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	
Condensate Drain		VP25	VP25	VP25	VP25	VP25	VP25	VP25	
Approximate Packing Volume		m³ 0.31	0.31	0.31	0.31	0.40	0.40	0.48	
Receiver kit	Basic	PC-RLH11							
	Advanced	PC-ALHZ1							

Notes:

- 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	Heating Operation Conditions Indoor Air Inlet Temperature:.....20.0°C DB Outdoor Air Inlet Temperature:.....7.0°C DB 6.0°C WB
Outdoor Air Inlet Temperature:.....35.0°C DB Piping Length: 7.5 metre Piping Lift: 0 metre	Piping Length: 7.5 metre Piping Lift: 0 metre
- 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.



### Improve indoor air quality!

Today, the average person spends more than 75% of their day indoors. Without proper ventilation, CO2 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.

# VENTILATION

- 67 Our ventilation line-up

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- 69 Ventilation solutions
  - 69 All fresh air unit
  - 70 Total heat exchanger

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- 71 DX-KIT



## 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 150 TO 5,000m<sup>3</sup>/h

Fan Air Flow Rate (m <sup>3</sup> /h)	150	200	210	230	300	400	500	550	650	700	800	1,000	1,080	1,250	1,500	1,680	2,000	2,100	2,500	3,000	4,000	5,000	
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.



# Ventilation solutions



## ALL FRESH AIR UNIT

Model	RPI-5.0KFNQ		RPI-8.0KFNQ		RPI-10.0KFNQ	
Power Supply	AC 1Φ 220-240V/ 50Hz	AC 1Φ 220V/ 60Hz	AC 1Φ 220-240V/ 50Hz	AC 1Φ 220V/ 60Hz	AC 1Φ 220-240V/ 50Hz	AC 1Φ 220V/ 60Hz
Connectable Outdoor Unit	SET FREE Σ, Heat Pump Type, JNBBQ Series					
Cooling	Capacity	kW	14.0	14.0	22.4	22.4
	Power	kW	0.30	0.35	0.48	0.55
	Nominal Current	A	1.4	1.61	2.2	2.53
Heating	Capacity	kW	13.7	13.7	21.9	21.9
	Power	kW	0.30	0.35	0.48	0.55
	Nominal Current	A	1.4	1.61	2.2	2.53
Sound Pressure Level (overall a scale)	dB(A)	42	42	44	44	47
Dimensions	H×W×D	mm	370×1320×800		486×1270×1069	
Net Weight	kg	63	63	110	110	110
Refrigerant		R410A	R410A	R410A	R410A	R410A
Air Flow Rate	m <sup>3</sup> / min	18	18	28	28	35
External Pressure	Pa	200	200	220	220	220
Piping	Liquid	mm	Φ9.53	Φ9.53	Φ9.53	Φ9.53
	Gas	mm	Φ15.88	Φ15.88	Φ19.05	Φ19.05
	Condensate Drain		VP25, Outer Diameter: Φ32mm			
Temperature range of fresh air drawn		Cooling: 20.0°C~43.0°C, Heating: -7.0°C~15.0°C				

### Notes:

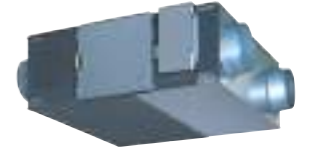
- Cooling capacity and heating capacity tested in the following conditions:  
Cooling conditions: 33.0°CDB, 28.0°CWB, pipeline length 7.5 metre, pipe height difference 0 metre.  
Heating conditions: 0°CDB, -2.9°CWB, pipeline length 7.5 metre, pipe height difference 0 metre (heating is the data without defrosting).
- 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.
- An air filter with dust removal efficiency of 50% or more needs to be installed at the air inlet.
- 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.
- Air processor can only be used for processing fresh air, indoor air conditioning load processing need to use other air conditioners.
- Fresh air processing unit should be connected with SET FREE Σ Heat Pump Type outdoor unit.  
When fresh air processing unit and other indoor units air all connected to the same SET-FREE 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
- Refer to capacity restrains shown on Table below for indoor unit capacity connectable to outdoor unit.

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

Mixed system is only available with RPI-5.0/8.0/10.0KFNQ.

RPI-12.0KFNQ or above is only available as one to one All Fresh Air Unit system.

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



## TOTAL HEAT EXCHANGER

Model		KPI-20H-A-GQ	KPI-30H-A-GQ	KPI-40H-A-GQ	KPI-50H-A-GQ	KPI-65H-A-GQ	KPI-80H-A-GQ	KPI-100H-A-GQ	KPI-125H-A-GQ
Unit Power Supply		AC 1Φ, [220/50Hz]							
Temp. Efficiency	Summer (Hi/Me/Lo)	%	64/64/70	60/60/65	61/61/66	60/60/62	65/65/69	65/65/69	65/65/69
	Winter (Hi/Me/Lo)	%	80/80/83	77/77/80	79/79/81	75/75/76	75/75/78	74/74/78	72/72/76
Enthalpy Efficiency	Summer (Hi/Me/Lo)	%	69/69/76	63/63/70	64/64/69	63/63/65	57/57/60	60/60/63	58/58/63
	Winter (Hi/Me/Lo)	%	75/75/78	70/70/75	70/70/75	69/69/71	65/65/70	70/70/72	66/66/69
Sound Pressure Level	(Hi/Me/Lo)	dB(A)	32/30/25	36/34/28	39/37/30	40/38/31	40/38/35	40/38/34	43/42/34
Outer Dimension	(H×W×D)	mm	220×962×735	220×962×735	220×1,112×735	220×1,112×735	388×1,119×884	388×1,119×884	388×1,119×884
Net Weight	kg	38	40	46	52	61	69	69	95
Air Flow Rate	(Hi/Me/Lo)	m <sup>3</sup> /h	200/200/150	300/300/210	400/400/230	500/500/400	650/650/550	800/800/650	1,000/1,000/700
External Static Pressure	(Hi/Me/Lo)	Pa	100/70/40	120/90/50	120/90/50	120/90/50	130/100/90	130/100/90	165/120/60
Power Input	(Hi/Me/Lo)	W	120/110/75	165/155/120	210/200/130	330/310/230	2×(188/173/142)	2×(207/188/165)	2×(250/228/205)
Current	(Hi/Me/Lo)	A	0.6/0.5/0.4	0.8/0.7/0.6	1.0/1.0/0.7	1.6/1.5/1.1	1.72/1.58/1.31	2.04/1.93/1.73	2.35/2.09/1.92
Connection Duct Diameter	mm	Φ144	Φ144	Φ144	Φ194	Φ242	Φ242	Φ242	320×250 +320×250
Approximate Packing Volume	m <sup>3</sup>	0.37	0.37	0.43	0.49	0.94	1.15	1.15	1.25

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

### Note:

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

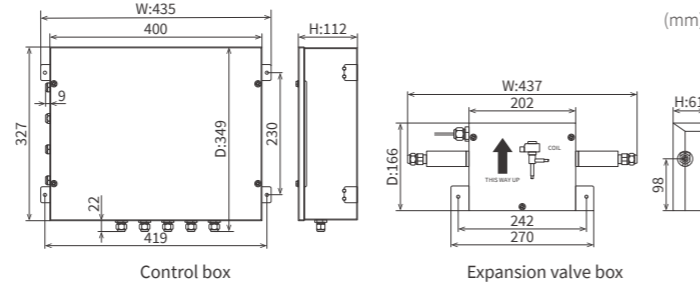
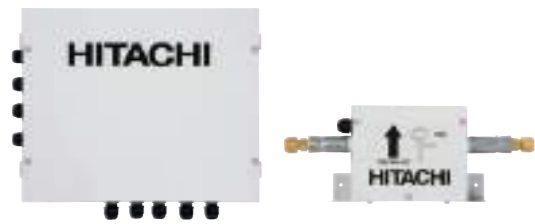


# DX-KIT

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



## Dimensions



Capacity (HP)	2	4	6	8/10	12~20	22~30
<b>Model</b>	<b>DXF-2.0A1</b>	<b>DXF-4.0A1</b>	<b>DXF-6.0A1</b>	<b>DXF-10.0A1</b>	<b>DXF-20.0A1</b>	<b>DXF-30.0A1</b>
<b>Control Box (C Box)</b>	Power Supply: AC1Φ, [220-240V / 50Hz] [220V 60Hz] Height: 112 mm Width: 435 mm Depth: 349 mm Weight: 5.2 kg Material: Steel Plate + White Grey Coating					
<b>Expansion Valve Box (EXV Box)</b>	Height: 61 mm Width: 437 mm Depth: 166 mm Weight: 1.7 kg Quantity: 1 Material: Steel Plate + White Grey Coating					
<b>AHU Suction Temperature Range</b>	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)					
<b>Connection Ratio in different configurations</b>	→ Total AHU or AHU & IDU Connection Ratio against ODU capacity = X (In case of "Inlet Air Temperature Control")					
<b>Maximum Piping Length</b>	Total: m Between AHU Heat Exchanger and EXV Box: m Between ODU and [AHU/IDU]: m Between AHU Heat Exchanger and EXV Box: m Control wiring between AHU Heat Exchanger and EXV Box: m Thermistor to AHU Heat Exchanger from C Box: m					
<b>Temperature Control Modes (*1)</b>	• Inlet Air Temperature Control • Outlet Air Temperature Control • Duty Control					

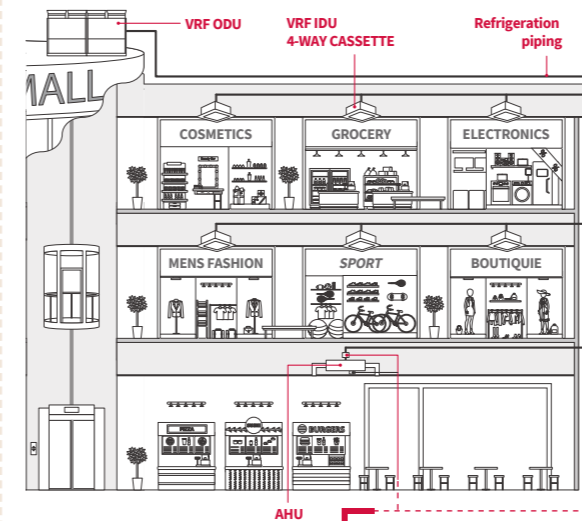
(\*1) [Outlet Air Temperature Control] & [Duty Control] are available only in case of connections "1 ODU to 1 AHU" & "1 ODU to 1 AHU (Separate Heat Exchanger Type)".

## DX-KIT: GREAT FLEXIBILITY FOR SIMPLIFIED HVAC UPGRADE

### ① Wide range of capacity:

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

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



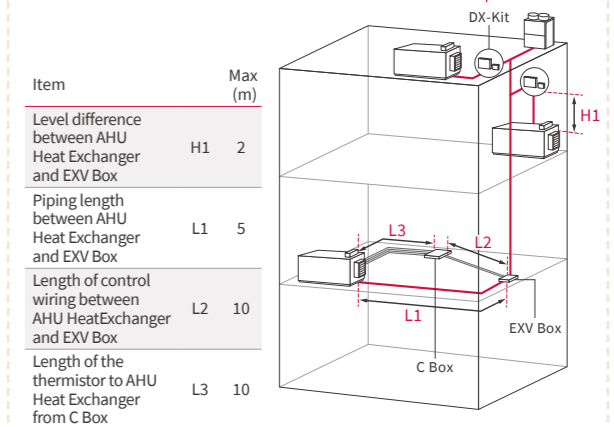
DX-Kit Above: Expansion Valve Box (EXV Box). Below: Control Box (C Box).

### ② Flexible installation:

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

DX-Kit facilitates system design!

Both outdoor & indoor installations available!

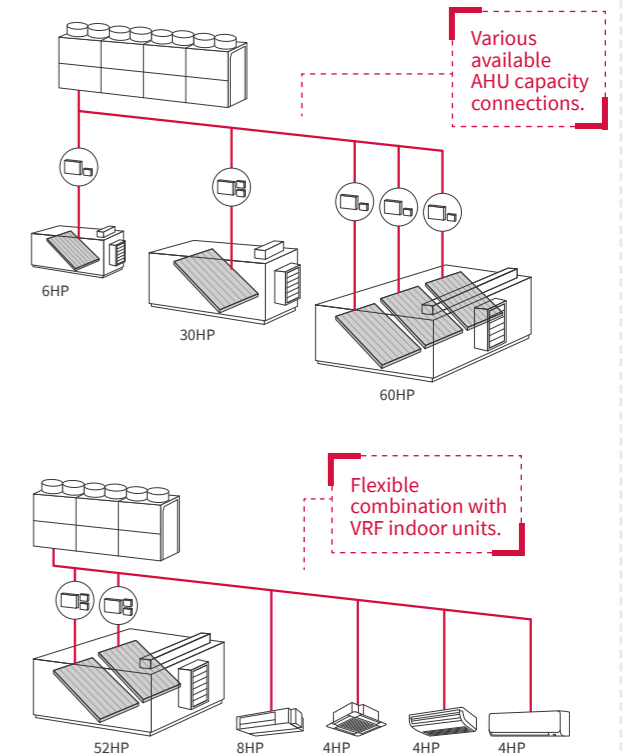
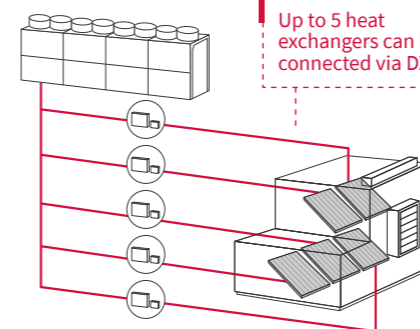


### ③ 4 examples of configuration:

- 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)





### 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).

# CONTROLLERS

75	Centralized controllers
75	Line-up overview
77	<b>air</b> Cloud Pro
79	Central Station EX
80	Central Station EZ
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93	H-LINK: enjoy more freedom

## 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 HC-IoTGW	CENTRAL STATION EX PSC-A128EX3	CENTRAL STATION EZ PSC-A64GT	CENTRAL STATION MINI PSC-A32MN
Capacity comparison	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 (New!)	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	-	-	●	●
Control Function	By indoor unit	●	●	-	-
	Main 5 functions (*5)	●	●	●	●
	Individual controller lock	●	●	Δ (*3)	●
	Filter sign reset	●	●	●	●
Monitor Function	Outdoor unit capacity control	-	●	-	Δ (*4)
	Outdoor unit noise control	-	●	-	-
	Main 5 functions (*5)	●	●	●	●
	Individual controller lock	●	●	●	●
	Alarm status & code	●	●	●	●
	Filter sign	●	●	●	●
Schedule Function	Air inlet temperature of indoor unit	-	●	-	●
	Air inlet temperature of outdoor unit	-	●	-	●
	Weekly	●	●	●	-
	Setting times per day	16	16	10	10
	Special day setting	5	5	-	-
	Holiday setting	-	●	-	-
Other function	Annual/Summer/Winter schedule	Future Version	●	-	-
	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 ODU, and up to 15 adapters can connect to one Central Station EX.

(\*2) No restriction on the number of H-LINK.

(\*3) Individual Feature Control in Each Remote Controller is not available.

(\*4) Applicable only with Schedule function or external signal input. You cannot set it up directly from monitoring panel.

(\*5) Main 5 functions meaning: 1) Run/Stop 2) Operation mode 3) Temperature setting 4) Fan speed 5) Louver control.

(\*6) Ability to connect unlimited number of "HC-IoTGW" in one project and control all AC units via one single screen on Web or Mobile Phone.

(\*7) Unlimited creation of zones, across multiple "HC-IoTGW" units within the same project.

(\*8) Visualization of outdoor unit energy consumption.

(\*9) 4G available through optional 4G module; 4G module package comes with global SIM and pre-paid global data plan.

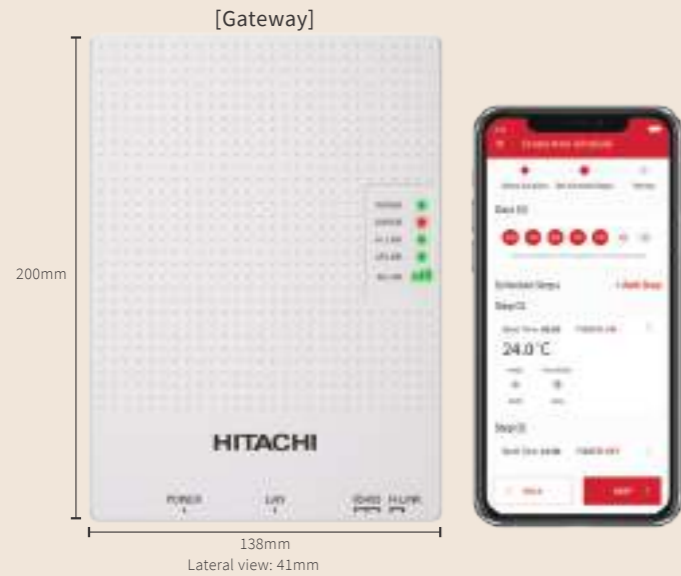
(\*10) OTA: Over-the-air firmware update, provides always up-to-date firmware and latest functionalities.

(\*11) Mini, EZ: Accumulated operation time ( min ), Accumulated thermo - ON ( min ).

EX: Accumulated operation time ( min ), Accumulated thermo - ON time ( min ), Average air intake temperature of indoor unit, Average air intake temperature of outdoor unit, Average setting temperature, Average RC sensor temperature.

# Centralized controllers

## airCLOUD PRO



### 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 <sup>3</sup>
External interface (log storage)	1 micro SD card slot

### Functions

IoT connection (cloud-based)	<ul style="list-style-type: none"> <li>• Access via smartphone app or web</li> <li>• Unlimited number of gateways</li> <li>• Unlimited number of locations</li> <li>• Unlimited number of users</li> </ul>
Operation unit	<ul style="list-style-type: none"> <li>• Per entire location</li> <li>• Per system</li> <li>• Per zone (unlimited zone creation)</li> <li>• Per indoor unit remote control group</li> </ul>
Control function	<ul style="list-style-type: none"> <li>• On/Off • Mode • Set temperature</li> <li>• Fan speed • Louver • RC lock</li> <li>• Filter sign reset</li> </ul>

Monitor Function	<ul style="list-style-type: none"> <li>• On/Off • Mode • Set temperature</li> <li>• Air intake temperature • RC sensor temperature (*3)</li> <li>• Air intake temperature of outdoor unit</li> <li>• Fan Speed • Louver • RC prohibition</li> <li>• Thermo-ON information • Filter sign/Auto cleaning fault</li> <li>• Alarm status/Alarm codes</li> </ul>
Schedule function	<ul style="list-style-type: none"> <li>• Weekly schedule • Easy selection of days and zones</li> <li>• Setting items in schedule is as below; • On/Off</li> <li>• Operation mode • Setting temperature</li> <li>• Louver • Fan speed</li> </ul>

\* "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.)

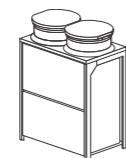


### Is airCloud Pro for me?

- 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

## 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<sup>2</sup>**  
In the event of a critical malfunction.
- **Flexible user management<sup>2</sup>**  
Add users and custom access restrictions.

### 🌍 Save more energy

Monitor energy consumption and optimize usage.

- **Energy consumption data<sup>2</sup>**  
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<sup>2</sup> 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<sup>3</sup> 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.

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

<sup>2</sup> Functions not available as of September 2019, coming soon.  
<sup>3</sup> 4G module available as a side accessory.



# Centralized controllers

## 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.

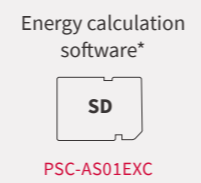
Install by add-on software and activate, then, you can select electricity ratio or usage ratio from several methods.

### 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



**PSC-AD128EX3**  
(\*1) 1 extension adapter (PSC-AD128EX3) enables Central Station EX to control additional 160 RC groups / 128 groups / 160 IDUs / 64 ODU. Central Station EX can connect up to 15 adapters.  
(\*2) No restriction on the number of H-LINK



### Specifications

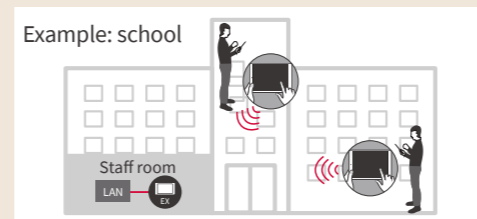
Rated power supply	100-240VAC ±10% (50/60Hz)
Electrical power consumption	50W (Max.)
Communication unit	Units of Adopting for H-LINK
Communication line	Two-wire non-polar
Communication speed	9,600bps
Wiring length	1,000m (Total Length)
Display	12.1 inch TFT color liquid crystal display
Display control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

### Functions

<b>Operation unit</b>	All together Each area Each block Each group Each indoor unit	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	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
<b>Control function</b>	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)	<b>Schedule function</b> 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	<b>External input / output</b> Control/Monitor → Controlled items: • Run/Stop • Mode (Cool/Heat) → Monitored items: • Run/Stop • Mode (Cool/Heat) • Alarm state
<b>Monitor function</b>	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	<b>History</b> Alarm history: 10,000 records External In/Output history: 1,000 records Pulse input history: 6 months	<b>Others:</b> • Power consumption signal input • Emergency stop
	<b>Management report visualization</b> 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 temperature of indoor unit • Average air intake temperature of outdoor unit • Average setting temperature • Average RC sensor temperature		(*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

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

<b>Monitor Function</b>	• Run/Stop/Abnormality • Setting Temperature • RC Operation Prohibited Setting • Accumulated Operating Time • Operation Mode • Setting Fan Speed • Setting Louver • Filter Sign • Alarm Code"
<b>Control Function</b>	• 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.

# Individual controllers

## 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

### NEW ADVANCED-COLOR CONTROLLER (PC-ARFG1-\*)



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

### NEW 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

### ADVANCED WIRELESS REMOTE CONTROLLER (PC-AWR)



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

### WIRELESS REMOTE CONTROLLER (PC-LH7QE)



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

## From basic to advanced controls

		NEW PC-ARFG1	NEW PC-ARC	HCWA10NEGQ	PC-AWR	PC-LH7QE
Connection Capacity	No of RC-Group No of indoor units	1 16	1 16	1 16	- -	- -
Product Size	Width*Height*Depth (mm)	120*120*16.5 (D: thinnest part)	90*90*15.5 (D: thinnest part)	88*88*15.5	140*55*16.8	140*52*19.3
Screen		Color LCD with backlight	Segment LCD with backlight	Segment LCD with backlight	Segment LCD	Segment LCD
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	●	●	●	●	●
	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)	-	-	-	
Advanced Feature Settings	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	●	-	-	-	-	
Adjusting Date/Time	●	●	●	-	-	
Daylight Saving Time	●	-	-	-	-	
Run Indicator Brightness Adjustment	●	-	● (Only On/Off setting)	-	-	
Display Adjustment	●	-	-	-	-	
Temperature Units (°C/°F)	●	-	●	●	- (°C only)	
Temperature setting at 0.5°C step	●	-	●	●	- (1.0°C only)	
Room Temperature Display	●	-	-	-	-	
Language available		EN, JPN, CN (traditional & simplified), FR, ES, PT	EN	EN	EN	EN
Keypad Touch Sound	●	●	●	● (Cannot turn off)	-	-
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)	-	-
Service Functions	Dual Setpoint	●	-	-	-	-
Main/Sub Display	●	-	-	-	-	-
Set Room Name	●	-	-	-	-	-
Set Contact Information	●	-	-	-	-	-
NFC Setting	●	●	-	-	-	-
Simple Maintenance Check Menu	●	-	-	-	-	-
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	●	-	-	-	-	-
Installation Functions	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.

# Individual controllers

## AIRCLOUD TAP



**NEW**  
**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



## What you can do with airCloud Tap | some highlights:

### Installation & Commissioning



#### Date/time setting

import the date & time from your phone into the controller

### Operation



#### Function selection

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

### Maintenance & Service



#### Scheduling

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



#### Troubleshooting

Visualize all the service check data on your phone



#### Temperature range restrictions

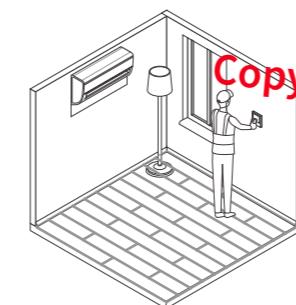
Apply min/max set temperature to prevent excessive cooling/heating

## Special tip: 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.

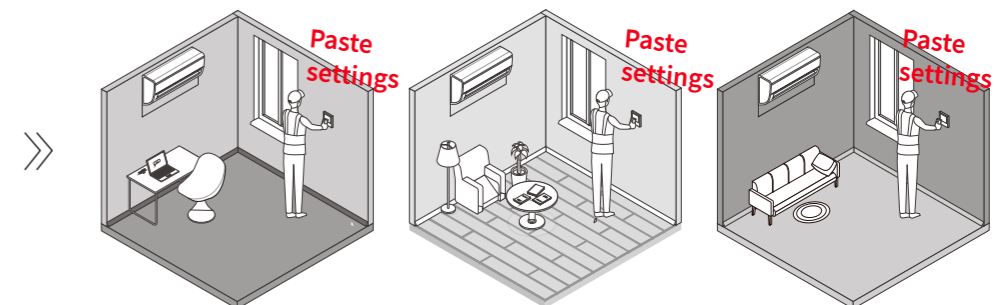
### STEP1

Read the settings from one device and save settings.

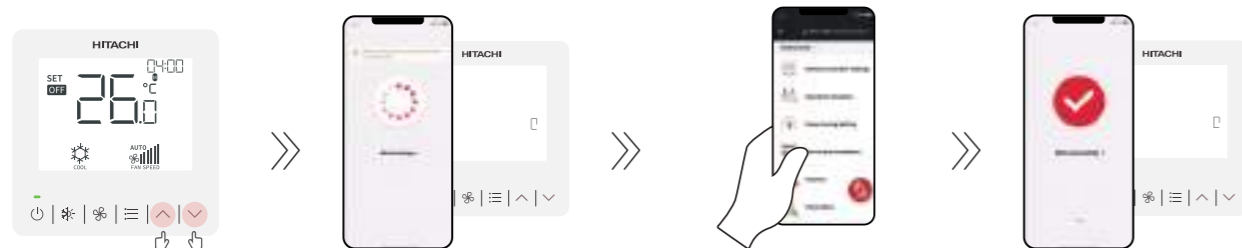


### STEP2

Hold the mobile device over each product and write settings of STEP1.



## 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.

# Individual controllers

## NEW ADVANCED COLOR WIRED REMOTE CONTROLLER (PC-ARFG1)

### 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)

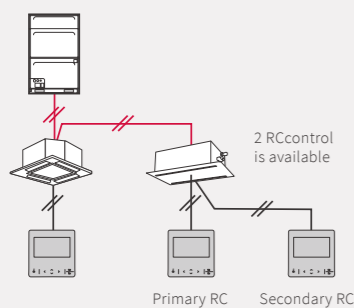
#### Capacity

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

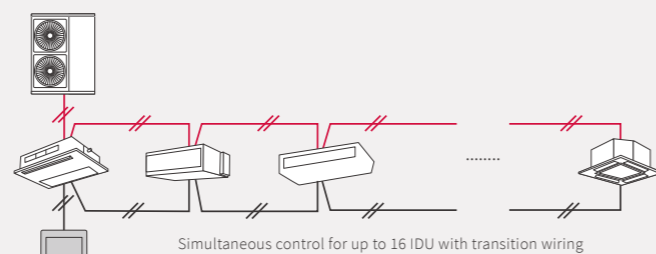
\* H is the height of the unit from the front, without the protrusion at the bottom.

### System configuration example

Possibility of 2 Wired Controller Connection



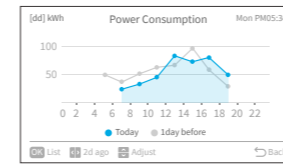
Up to 16 IDU connection



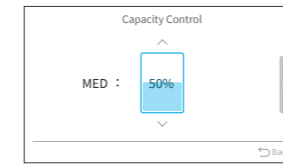
— H-LINK  
— Remote Control Cable

### Energy optimization

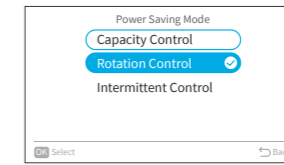
Power-saving features enable VRF system operators to optimize energy usage



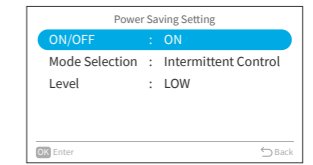
Energy consumption visualization



Capacity - peak cut control



Choice of power-saving method

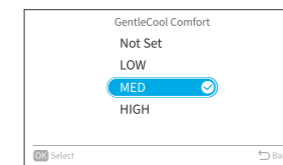


Power saving setting

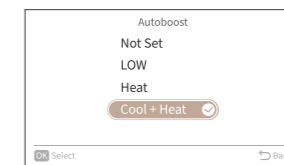
Set specific schedules for features like peak capacity cuts and the thermal operation rotation of indoor units, enabling you to match energy-saving operation hours with your utility tariffs plan. Building managers can also set the minimum and maximum temperature range for occupants and visualize energy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

### From basic to advanced functions

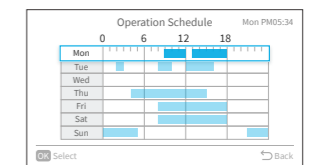
Users can control the main temperature settings from Advanced-Color controller's main screen. In addition, more advanced comfort settings help customizing the air to their occupants' specific needs.



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

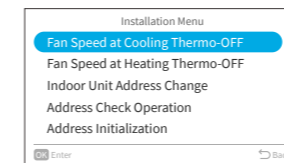


**AutoBoost** automatically activates for 30 minutes every time the AC is turned on, helping the room reach the desired temperature faster.

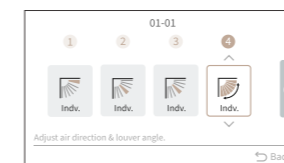


**AC Scheduling** is easier than ever, thanks to flexible features such as the holiday calendar.

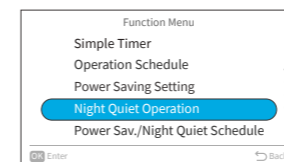
### The latest VRF features



**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 NEW**, **FloorSense Cool NEW** and the exclusive **Crowd-Sense NEW** to prevent heat peak from rapid crowd arrival.

# Individual controllers

## NEW ECO-COMPACT CONTROLLER (PC-ARC-\*)

### Climate control in a compact size

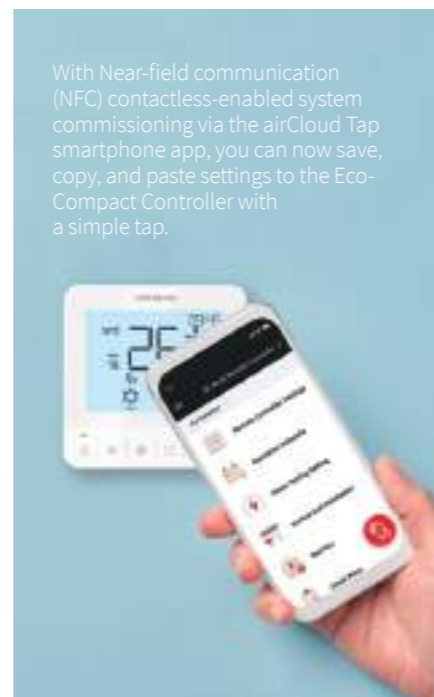
- Great value for money that combines the best of form and function.
- Minimalist design aesthetic that reflects Hitachi's Duality Design philosophy.



- 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

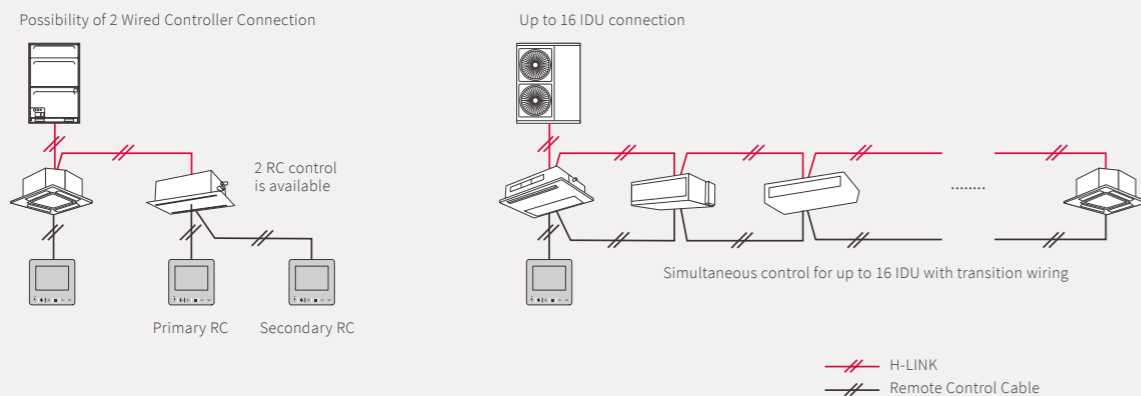
### Outer dimensions (H×W×D)

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

### Capacity

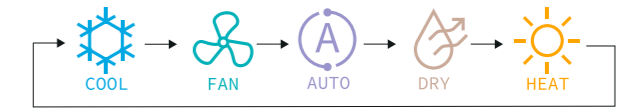
Power Supply	Powered by indoor unit, 15VDC±10%
	100g (approx.)
Installation	Indoor, on the wall or switch box
Connection capacity	Up to 16 indoor units (with the same wired remote controller)

## System configuration example

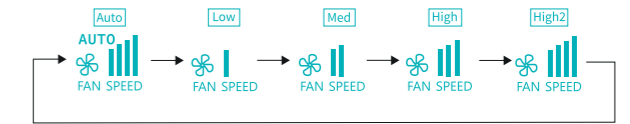


## Easy access to essential controls

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



Operation modes



Fan speed



Louvers' positions



Set temperature with 0.5°C precision\*

## 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.



**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.



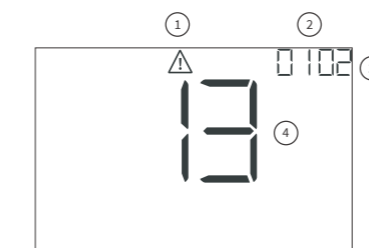
Include **GentleCool**, which controls the discharged air temperature for a smooth cooling down and prevents cold drafts.



**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



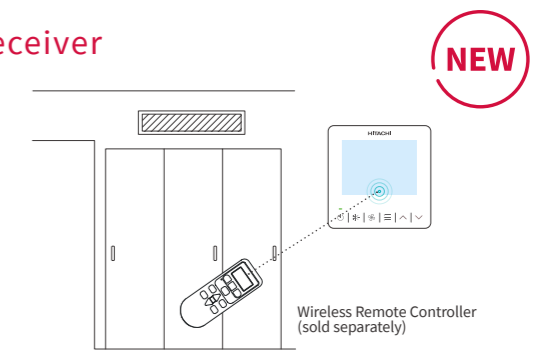
**For residential users:** set the Sleep mode timer **NEW** to gradually change the room temperature for a better night's sleep. The unit will turn off automatically after a set time.



**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 HCRB10NEWQ and PC-LH7QE/PC-LH7QE1 wireless controllers

# Individual controllers

## WIRED REMOTE CONTROLLER (HCWA10NEGQ)

Temperature display  
Room temperature  
26.0°C / 79.0°F

Set temperature  
26.0°C / 79.0°F

ON/OFF button  
Mode button

Liquid Crystal Display (LCD) screen  
Up button & down button

Operation mode

- Cooling mode
- Heating mode
- Dry mode
- Fan mode
- Auto mode

Fan speed setting  
Fan speed (flickering) MAX MIN

Timer/Clock setting

Timer setting

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

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

### Functions

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

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

## ADVANCED WIRELESS REMOTE CONTROLLER (PC-AWR)

Transmitter

Transmitting indication  
LCD (Liquid Crystal Display)

Mode selection switch  
Reset switch

Fan speed switch  
On switch  
Off switch

Louver angle switch  
Temp. switch  
Filter reset switch

Timer switches

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

### Functions

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)

## WIRELESS REMOTE CONTROLLER (PC-LH7QE)

Transmitter

Transmitting indication  
LCD (Liquid Crystal Display)

Run/Stop switch

Temp. switch  
Louver angle switch

Timer switches

Reset switch

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

### Functions

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



## RECEIVER KIT FOR WIRELESS REMOTE CONTROLLER

	PC-RLH11 (Basic)				PC-ALH21 (Advanced)			
Model								
Indoor unit	Ducted High ESP (AC Motor)	Ducted High ESP (DC Motor)	Ducted Medium ESP (AC Motor)	Ducted Low ESP (AC Motor)	Ducted Compact		Wall-Mounted (DC Motor)	Floor / Ceiling Convertible (AC Motor)
	RPIH-HNAUN1Q RPI-FSNQ RPIH-HNAUB1Q	RPIH-HNDUSQ	RPIM-HNAUN1Q RPI-FSN3Q RPIM-HNAUB1Q	RPIL-HNAUN1Q	RPZH-HNATN1Q	RPZH-HNDTS1Q	RPK-HNBSUQ	RPFC-FSNQ
Advanced Wireless Remote Controller PC-AWR	○	○	○	○	○	○	○	○
Standard Wireless Remote Controller PC-LH7QE	○	○	○	○	○	○	○	○
Model	HR4A10NEWQ (Basic)	PC-ALHC1 (Advanced)	P-AP56NAMR (Advanced)	PC-ALH21 (Advanced)				
Indoor unit	4-way Cassette (DC Motor)	4-way compact Cassette (AC Motor)	4-way compact Cassette (AC Motor)	Wall-Mounted (DC Motor)				
	RCI-FSKDN1Q	RCIM-FSRE RCIM-FSN4	RCIM-FSRE RCIM-FSN4	RPK-FSRM RPK-FSR4M				
Advanced Wireless Remote Controller PC-AWR	○	○	○	○				
Standard Wireless Remote Controller PC-LH7QE	○	-	-	-				

(\*) Basic function receiver kit is installed as a standard part in this wall-mounted unit. Wireless remote controller PC-LH7QE is delivered as a standard accessory as well. If separate placement of receiver kit is required, please use optional basic receiver kit [PC-RLH11] or optional advanced receiver kit [PC-ALH21].

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

**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

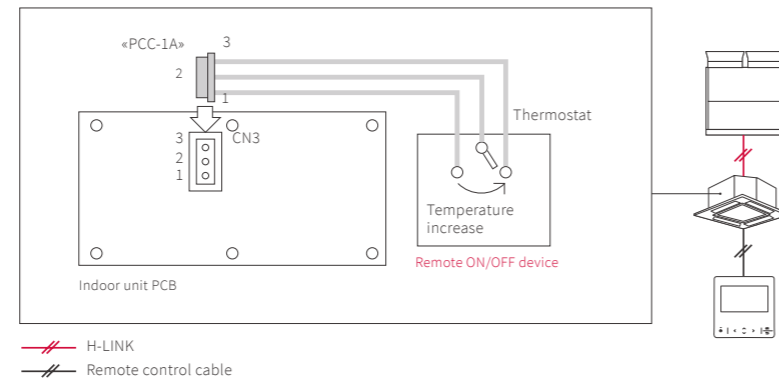
FOR CONNECTION TO REMOTE ON/OFF DEVICE/RECEIPT OF OUTPUT SIGNAL

### 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



## BMS ADAPTER for BACnet® HC-A64BNP1

CONTROL UP TO 64 INDOOR UNITS

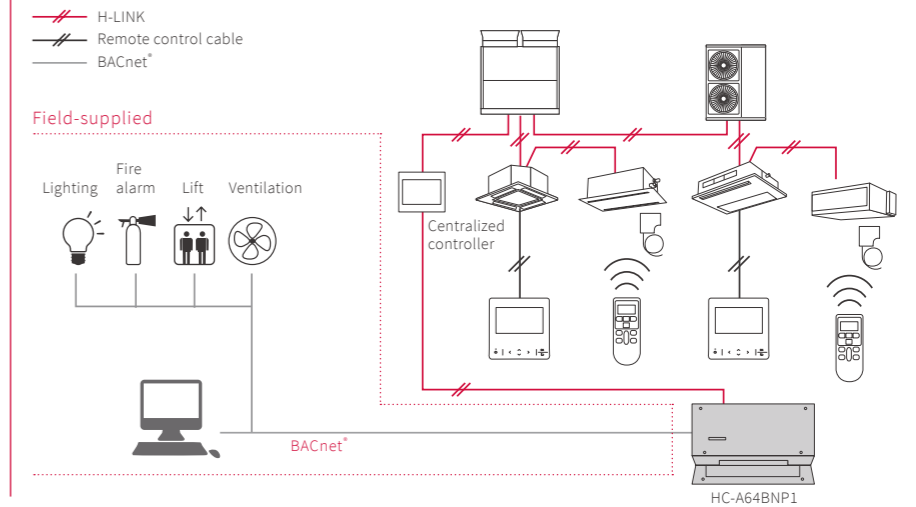
### Specifications

Outer dimensions (H×W×D)  
(mm) 68.0×240.0×154.0

### Functions

Corresponding BACnet® Standard	ANSI/ASHRAE Standard 135-2004 BACnet®
Control Item at Upper System	<ul style="list-style-type: none"> <li>• Run Stop (Setting)</li> <li>• Operation Mode (Setting)</li> <li>• Fan Speed Level (Setting)</li> <li>• Indoor Temperature (Setting)</li> <li>• RC Operation lock (Setting)</li> <li>• Filter Sign Reset</li> </ul>
Monitoring Item at Upper System	<ul style="list-style-type: none"> <li>• Run Stop (State)</li> <li>• Operation Mode (State)</li> <li>• Fan Speed Level (State)</li> <li>• Indoor Temperature (State)</li> <li>• Prohibiting RC Operation (State)</li> <li>• Filter Signal</li> <li>• Indoor Air Intake Temperature</li> <li>• Alarm Signal</li> <li>• Alarm Code</li> <li>• Communication State</li> </ul>

### System configuration example



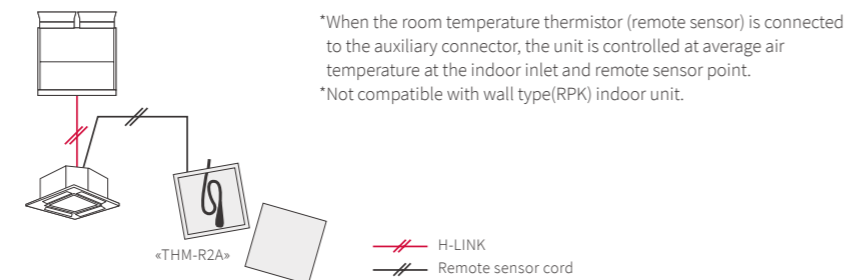
## REMOTE SENSOR THM-R2A

ROOM TEMPERATURE SENSOR

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

Length m 8.00

### System configuration example



## BMS ADAPTER for LONWORKS® HARC70-PE1

BIGGER CONNECTION CAPACITY (UP TO 128 INDOOR UNITS)

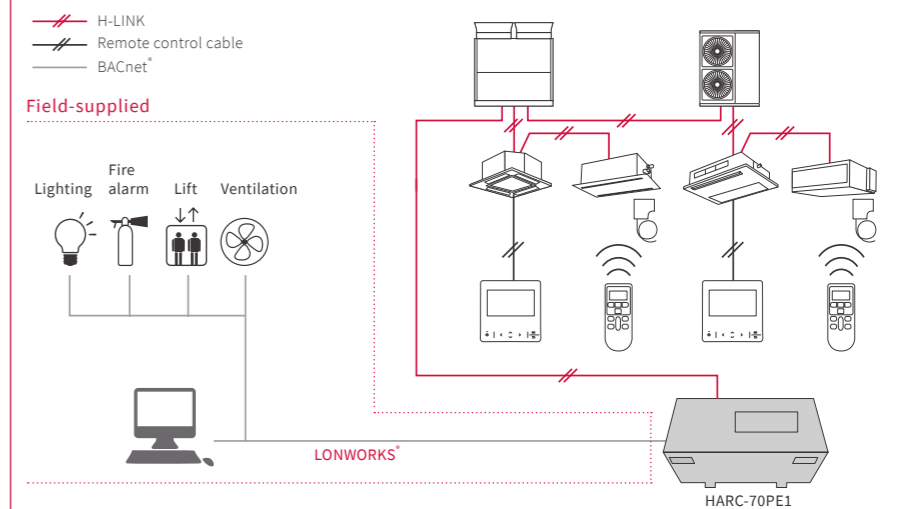
### Specifications

Outer dimensions (H×W×D)  
(mm) 80.0×170.0×75.0

### Functions

Connection Method to Upper System	Connection by SNVT (Standard Network Variable Type) to LONWORKS® Network
Quantity of Connection	8 Remote Control Groups (Max. 128 Indoor Units)
Control Item in Upper System (ng: 0-7)	<ul style="list-style-type: none"> <li>• On/Off Order (nviOnOff_ng)</li> <li>• Operation Mode Setting (nviMode_ng)</li> <li>• Temperature Setting (nviSetPoint_ng)</li> <li>• All On/Off Order (nvi All OnOff)</li> </ul>
Monitoring Item in Upper System (ng: 0-7)	<ul style="list-style-type: none"> <li>• On/Off State &amp; Alarm (nvoOnOff_ng)</li> <li>• Operation Mode State (nvoMode_ng)</li> <li>• Temperature Setting (nvoSetPoint_ng)</li> <li>• Individual Thermostat State (nvoThermo_ng)</li> </ul>

### System configuration example

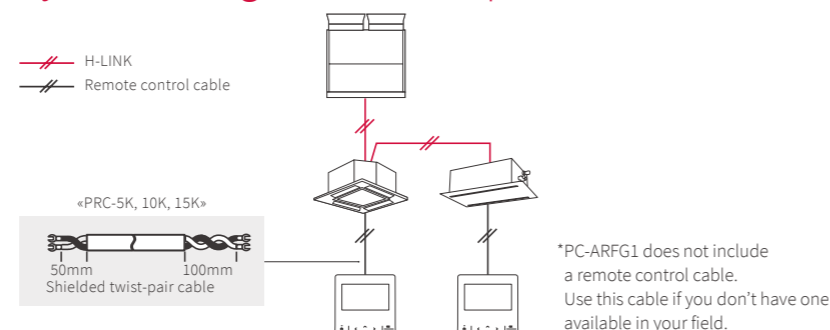


## REMOTE CONTROL CABLE PRC-5K, 10K, 15K

FOR PC-ARFG1 CONNECTION (TO IDU)

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

### System configuration example



The number of maximum connectable refrigerant systems is 8 (0 to 7). The available setting range of refrigerant system number and indoor unit addresses is 0 to 15.

# 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