HITACHI

SET FREE Σ

VARIABLE REFRIGERANT FLOW

AIR SOURCE HEAT RECOVERY TYPE

RNCQ series







Cooling & Heating

Welcome

Air. It’s a wonderful thing.

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

This is our vision. To create the air that makes life better.



Living Harmony

At Hitachi Cooling & Heating we like to think of this as creating harmony with your interior environment. When we achieve that wonderful balance,productivity, learning, happiness and health can thrive.

We call this ‘Living Harmony’ and it’s at the center of everything we do.

The future together

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

Your world. We live in it together.

The beauty of balance

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

When the air around you is in balance, you can enjoy life indoors that much more.

INDEX

03	MESSAGE
09	VRF OUTDOOR UNITS
33	VRF INDOOR UNITS
76	VENTILATION
83	CONTROLLERS

Your world and Hitachi

Change in the air.

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

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



Cooling & Heating

Design for tomorrow's urban spaces.

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





Redefining comfort.

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

You are in control.

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





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 Select

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

Whichever is your project

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

Support building owners with multiple tenants

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

Demand-response energy management

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

Complete VRF offer

Select and combine as you need!

Versatile Outdoor units

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

Variety of indoor units

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

User-friendly controls

- Central Stations: large choice of interfaces for simple centralized control operations
- Individual controllers: variety of types
- airCloud Pro: cloud-based monitoring available in smartphone app and web

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

The shape of things to come

We’ve named our latest VRF system SET FREE Σ

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



VRF OUTDOOR UNITS

11 LINE-UP OVERVIEW

13 3 POINTS IMPROVEMENT

15 DESIGN FLEXIBILITY

17 ADAPTABILITY

19 SPECIFICATIONS

30 OPTIONAL PARTS



Raising the standard

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

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

Line-up overview

Widest Range: from 8 to 96HP class

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

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



8HP Class/22.4kW/25.0kW/225kg
10HP Class/28.0kW/31.5kW/226kg
12HP Class/33.5kW/37.5kW/245kg



14HP Class/40.0kW/45.0kW/310kg
16HP Class/45.0kW/50.0kW/311kg
18HP Class/50.0kW/56.0kW/357kg

Single module
up to 24HP class!



20HP Class/56.0kW/63.0kW/403kg
22HP Class/61.5kW/69.0kW/421kg
24HP Class/68.0kW/75.0kW/422kg



26HP Class/73.0kW/81.5kW/537kg
28HP Class/78.5kW/87.5kW/559kg



30HP Class/85.0kW/95.0kW/621kg
32HP Class/90.0kW/100.0kW/622kg
34HP Class/95.0kW/106.0kW/668kg



36HP Class/101.0kW/113.0kW/714kg
38HP Class/106.5kW/119.0kW/732kg
40HP Class/113.0kW/125.0kW/733kg
42HP Class/118.0kW/131.0kW/779kg



44HP Class/124.0kW/138.0kW/825kg
46HP Class/129.5kW/144.0kW/843kg
48HP Class/136.0kW/150.0kW/844kg



50HP Class/140.0kW/156.0kW/979kg



52HP Class/146.0kW/163.0kW/1,025kg
54HP Class/151.5kW/169.0kW/1,043kg
56HP Class/158.0kW/175.0kW/1,044kg
58HP Class/163.0kW/181.0kW/1,090kg



60HP Class/169.0kW/188.0kW/1,116kg
62HP Class/174.5kW/194.0kW/1,154kg
64HP Class/181.0kW/200.0kW/1,155kg
66HP Class/186.0kW/206.0kW/1,201kg



68HP Class/192.0kW/213.0kW/1,222kg
70HP Class/197.5kW/219.0kW/1,247kg
72HP Class/204.0kW/225.0kW/1,266kg



74HP Class/208.0kW/231.0kW/1,401kg



76HP Class/214.0kW/238.0kW/1,447kg
78HP Class/219.5kW/244.0kW/1,465kg

Whole range
up to 96HP class!



80HP Class/224.0kW/252.0kW/1,612kg
82HP Class/229.5kW/258.0kW/1,630kg
84HP Class/236.0kW/264.0kW/1,631kg
86HP Class/241.5kW/270.0kW/1,649kg
88HP Class/248.0kW/276.0kW/1,650kg

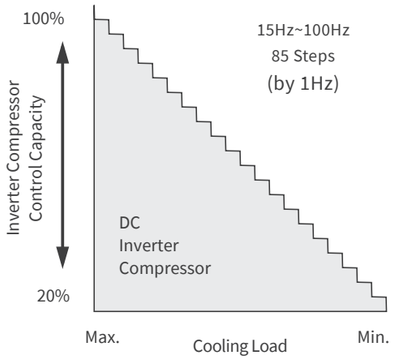
90HP Class/253.5kW/282.0kW/1,668kg
92HP Class/260.0kW/288.0kW/1,669kg
94HP Class/265.5kW/294.0kW/1,687kg
96HP Class/272.0kW/300.0kW/1,688kg

3 points improvement

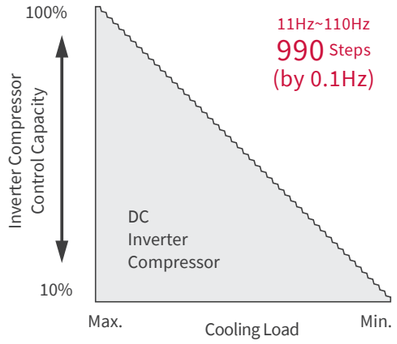
1) COMPRESSOR

Greater capacity control

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



Current model*



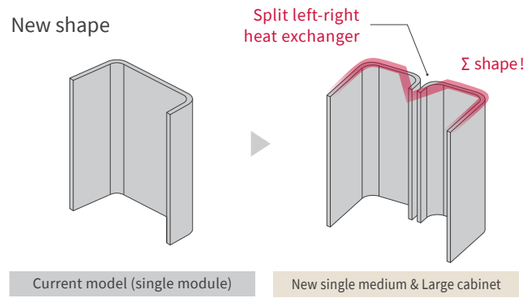
New model*

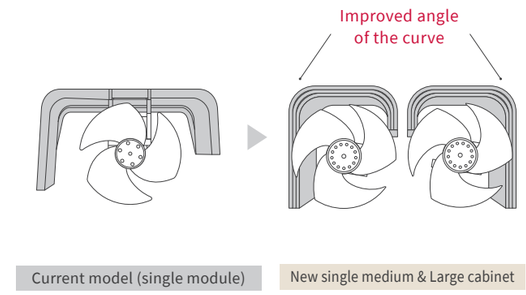
*Example at 12HP class (33.5kW)



2) HEAT EXCHANGER

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

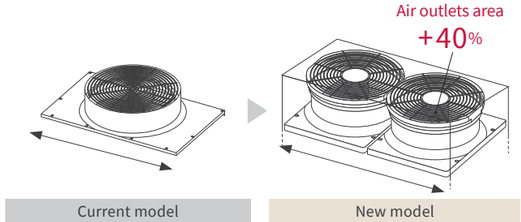




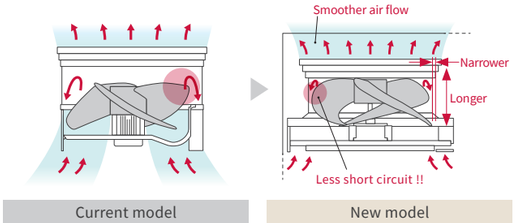
3) AIR OUTLET

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

Expansion of air outlet



Improvement in air outlet



Design flexibility

EASY TRANSPORTATION

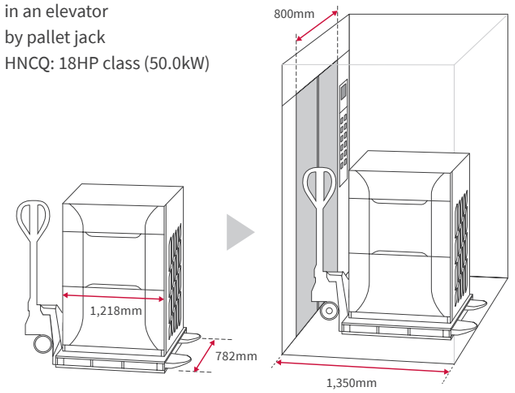
• Smaller cabinet



*Example at 24HP class (68.0kW)

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

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

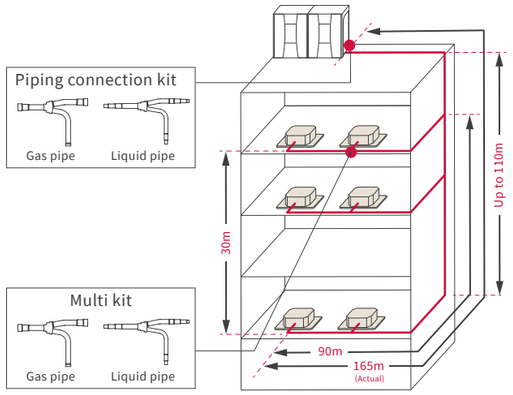


PIPING CONNECTION WORKABILITY

Improvement of restrictions on piping construction

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

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

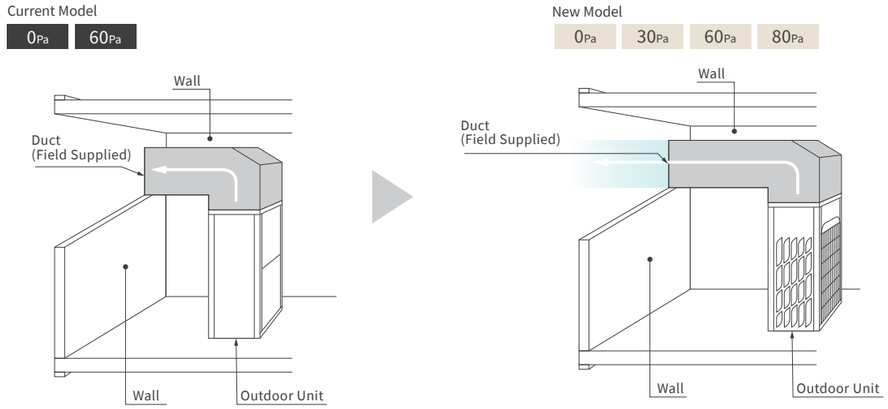




IMPROVED EXTERNAL STATIC PRESSURE

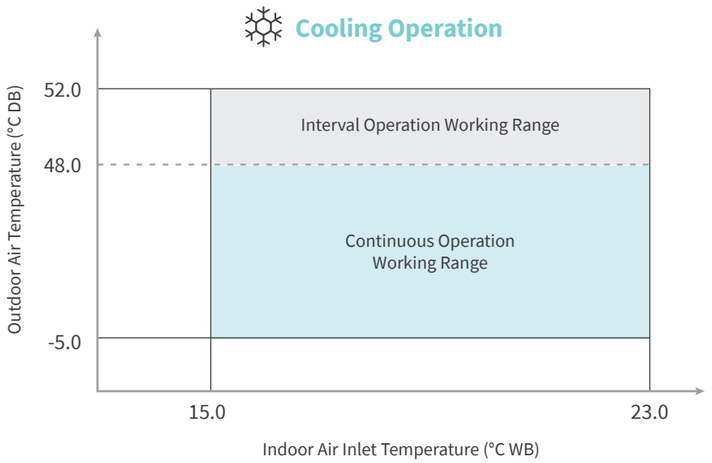
Both more numbers of setting of ESP (up to 4), and, higher ESP (up to 80Pa) of outdoor unit, offer better options for the indoor installation of the outdoor unit, which leads to 3 benefits for you.

• Less piping length
• Lower installation cost
• Visual aesthetics



OPERATION TEMPERATURE RANGE

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



Adaptability

SMOOTHDRIVE™: SUPERIOR COMPRESSOR CONTROL

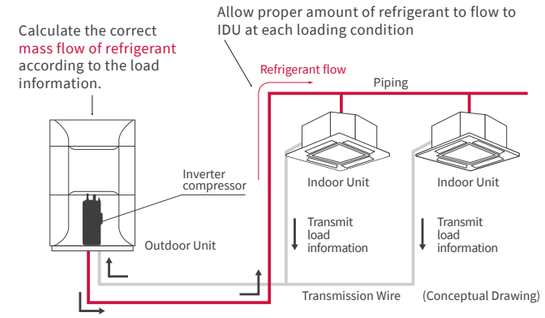
Energy savings in real life: it's more than ratings. You can uncover that we want to bring true value to your customers. Meeting high energy efficient standards in one thing, but on top of that, "SmoothDrive™" supports energy savings in real life conditions, as real life is made of fluctuations.

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!

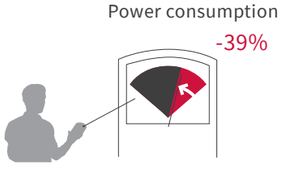
- "SmoothDrive™" helps scroll compressor running continuously and smoothly even at Low-load condition
- Our original load-speculation technology helps reduce energy loss caused by scroll compressor switching on/off
- Consequently, constant room temperature & energy saving can be achieved

Concept

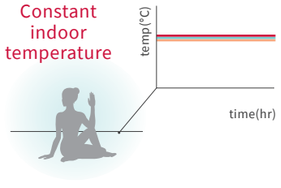


How does "SmoothDrive™" benefit you?

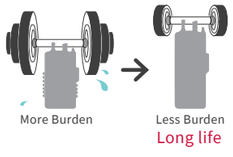
Efficiency
Power consumption is reduced by -39% in the testing condition at air conditioning load 33%.



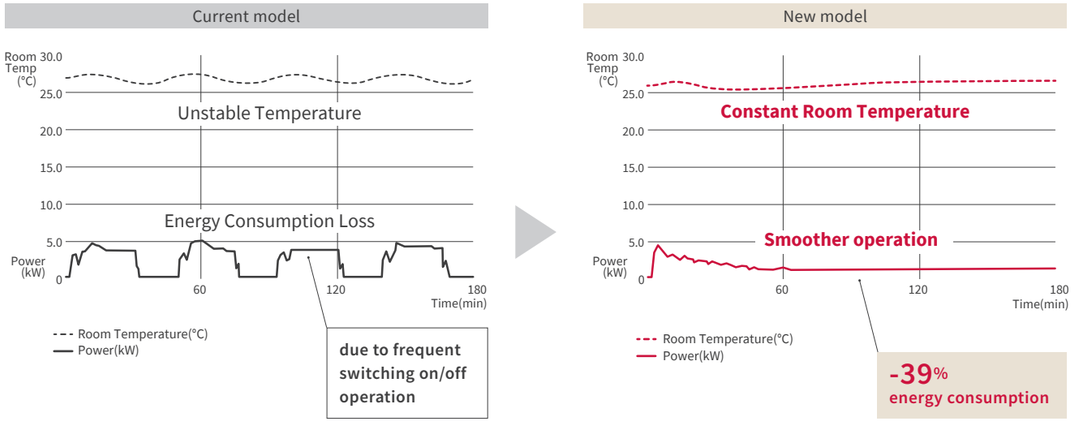
Comfort
More constant indoor temperature achieved by better responsiveness thanks to direct compressor frequency control.



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



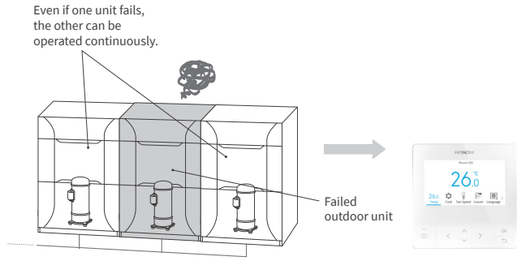
Actual example of the new compressor control



SYSTEM FAILURE PREVENTION

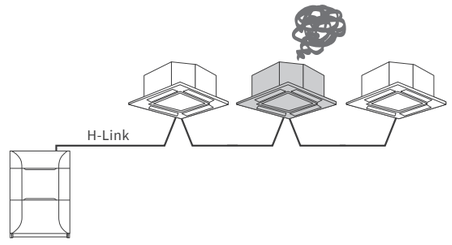
In case of a combination unit

- The Backup Operation Function prevents the system from coming to a complete stop when outdoor unit failure occurs
- If one outdoor unit should fail, the system can continue to operate using the remaining outdoor units



UNINTERRUPTED OPERATION

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

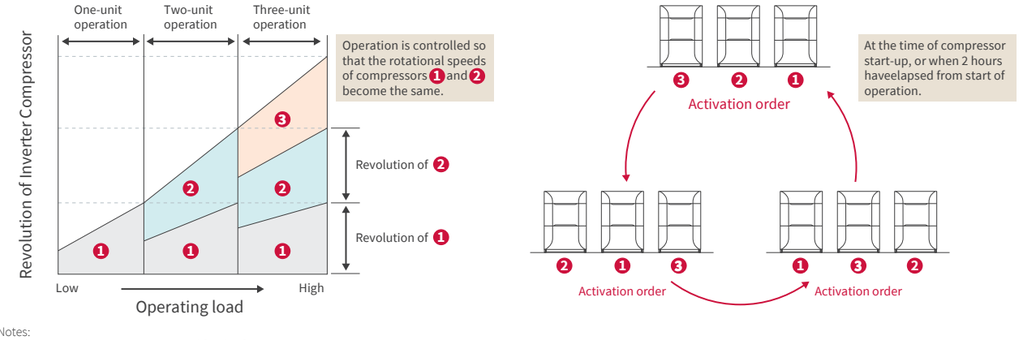


Notes:
*1 System will continue running when one indoor unit is powered off, but it may be shut down due to system protection depending on the operation conditions.
*2 Please restore the indoor unit power as soon as possible, continue to turn off indoor may significantly affect system reliability.

ROTATIONAL OPERATION*1 TO DISTRIBUTE LOAD OF OUTDOOR UNITS

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

Compressor Rotation Frequency Control (Example)



Notes:
*1 At least 2 outdoor units are required for this function.
*2 Comparison between the rotation operation function and non-rotation operation function based on the same system.

Specifications







Capacity			8HP	10HP	12HP	14HP	16HP	18HP	20HP	22HP	24HP
Model		Unit	RAS-8.0RNBCLQ	RAS-10RNBCLQ	RAS-12RNBCLQ	RAS-14RNBCLQ	RAS-16RNBCLQ	RAS-18RNBCLQ	RAS-20RNBCLQ	RAS-22RNBCLQ	RAS-24RNBCLQ
Power Supply		V/Ph/Hz	3N,380-415V/50Hz/60Hz			3N,380-415V/50Hz/60Hz			3N,380-415V/50Hz/60Hz		
Cooling Operation	Nominal Capacity	kW	22,4	28,0	33,5	40,0	45,0	50,0	56,0	61,5	68,0
		Btu/h	76400	95500	114300	136500	153500	170600	191000	209800	232000
	Power Consumption	kW	6,33	8,59	9,94	13,42	18,44	17,86	18,36	21,13	25,95
	EER	W/W	3,54	3,26	3,37	2,98	2,44	2,80	3,05	2,91	2,62
	SEER	—	6,87	6,75	6,20	5,73	5,71	5,97	6,28	5,51	5,35
Heating Operation	Nominal Capacity	kW	22,4	28,0	33,5	40,0	45,0	50,0	56,0	61,5	68,0
		Btu/h	76400	95500	114300	136500	153500	170600	191000	209800	232000
	Power Consumption	kW	5,94	7,98	9,82	11,46	15,90	17,48	17,72	19,97	23,94
	COP	W/W	3,77	3,51	3,41	3,49	2,83	2,86	3,16	3,08	2,84
	SCOP	—	3,85	4,10	4,17	4,18	4,00	3,94	3,91	4,12	4,39
Sound Power		dB(A)	84	86	87	89	90	90	91	91	91
Cabinet Color		—	Natural White (ID8000-100036)			Natural White (ID8000-100036)			Natural White (ID8000-100036)		
Outer Dimensions	Height	mm	1725	1725	1725	1725	1725	1725	1725	1725	1725
	Width	mm	958	958	958	1218	1218	1218	1608	1608	1608
	Depth	mm	782	782	782	782	782	782	782	782	782
Packing Dimensions	Height	mm	1888	1888	1888	1888	1888	1888	1888	1888	1888
	Width	mm	1020	1020	1020	1280	1280	1280	1680	1680	1680
	Depth	mm	841	841	841	841	841	841	841	841	841
Net Weight		kg	225	226	245	310	311	357	403	421	422
Gross Weight		kg	242	243	262	328	329	376	427	445	446
Refrigerating Installation	Compressor	—	Scroll Comp			Scroll Comp			Scroll Comp		
	Compressor Model	—	AA50PHDG	AA50PHDG	DC80PHDG	DC80PHDG	DC80PHDG	AA50PHDG+ AA50PHDG	AA50PHDG+ AA50PHDG	DC80PHDG+ DC80PHDG	DC80PHDG+ DC80PHDG
	Compressor Quantity	—	1	1	1	1	1	2	2	2	2
	Compressor Motor Output	kW	4,10	6,20	7,40	9,30	10,80	6.4×2	6.5×2	7.5×2	8.6×2
	Refrigeration Oil — Type	—	FV68H			FV68H			FV68H		
	Refrigeration Oil — Brand	—	Idemitsu Kosan			Idemitsu Kosan			Idemitsu Kosan		
	Refrigeration Oil — Charge (Comp)	L	1,1	1,1	1,1	1,1	1,1	2,2	2,2	2,2	2,2
	Refrigeration Oil — Charge(Total)	L	6,0	6,0	6,0	6,9	6,9	7,9	8,4	8,4	8,4
	Refrigerant Charge Before Shipment	kg	5,0	5,0	7,2	7,6	7,6	9,4	11,3	11,3	12,6
	Refrigerant Flow Control	—	Micro-computer Control Expansion Valve			Micro-computer Control Expansion Valve			Micro-computer Control Expansion Valve		
	Heat Exchanger type	—	Multi-Pass Cross-Finned Tube			Multi-Pass Cross-Finned Tube			Multi-Pass Cross-Finned Tube		
	Liquid Pipe	mm	Ø9.53	Ø9.53	Ø12.70	Ø12.70	Ø12.70	Ø15.88	Ø15.88	Ø15.88	Ø15.88
	High/Low Pressure Gas Pipe	mm	Ø15.88	Ø19.05	Ø22.2	Ø22.2	Ø22.2	Ø22.2	Ø22.2	Ø25.4	Ø25.4
	Low Pressure Gas Pipe	mm	Ø19.05	Ø22.2	Ø25.4	Ø25.4	Ø28.58	Ø28.58	Ø28.58	Ø28.58	Ø28.58
Fan	Condenser Fan Quantity	—	1	1	1	2	2	2	2	2	2
	Air Flow Rate	m^3/min	165	170	190	239	256	256	329	329	348
Hole for Power Supply Wiring		mm	65	65	65	65	65	65	65	65	65
Hole for Control Line Wiring		mm	52	52	52	52	52	52	52	52	52

Notes:
The cooling and heating performances are the values when combined with our test indoor units.

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

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

Specifications







Capacity				26HP	28HP	30HP	32HP	34HP	36HP	38HP	40HP	42HP
Model			Unit	RAS-26RNBCLQ	RAS-28RNBCLQ	RAS-30RNBCLQ	RAS-32RNBCLQ	RAS-34RNBCLQ	RAS-36HNBCMQ	RAS-38RNBCLQ	RAS-40RNBCLQ	RAS-42RNBCLQ
Combination				RAS-10RNBCLQ	RAS-12RNBCLQ	RAS-14RNBCLQ	RAS-16RNBCLQ	RAS-16RNBCLQ	RAS-16RNBCLQ	RAS-16RNBCLQ	RAS-20RNBCLQ	RAS-20RNBCLQ
				RAS-16RNBCLQ	RAS-16RNBCLQ	RAS-16RNBCLQ	RAS-16RNBCLQ	RAS-18RNBCLQ	RAS-20RNBCLQ	RAS-22RNBCLQ	RAS-20RNBCLQ	RAS-22RNBCLQ
				/	/	/	/	/	/	/	/	/
				/	/	/	/	/	/	/	/	/
Power Supply			V/Ph/Hz	3N,380-415V/50Hz/60Hz			3N,380-415V/50Hz/60Hz					
Cooling Operation	Nominal Capacity		kW	73,0	78,5	85,0	90,0	95,0	101,0	106,5	112,0	117,5
			Btu/h	249076	267800	290000	307000	324140	344612	363300	382144	400910
	Power Consumption		kW	27,03	28,38	31,87	36,89	36,30	36,80	39,58	36,72	39,49
	EER		W/W	2,70	2,77	2,67	2,44	2,62	2,74	2,69	3,05	2,98
	SEER		—	-	-	-	-	-	-	-	-	-
Heating Operation	Nominal Capacity		kW	73,0	78,5	85,0	90,0	95,0	101,0	106,5	112,0	117,5
			Btu/h	249076	267800	290000	307000	324140	344612	363300	382144	400910
	Power Consumption		kW	23,88	25,73	27,36	31,80	33,38	33,62	35,87	35,44	37,69
	COP		W/W	3,06	3,05	3,11	2,83	2,85	3,00	2,97	3,16	3,12
	SCOP		—	-	-	-	-	-	-	-	-	-
Sound Power			dB(A)	-	-	-	-	-	-	-	-	-
Cabinet Color			—	Natural White (ID8000-100036)			Natural White (ID8000-100036)					
Outer Dimensions		Height	mm	1725	1725	1725	1725	1725	1725	1725	1725	1725
		Width	mm	958+1218	958+1218	1218+1218	1218+1218	1218+1218	1218+1608	1218+1608	1608+1608	1608+1608
		Depth	mm	782	782	782	782	782	782	782	782	782
Packing Dimensions		Height	mm	1888	1888	1888	1888	1888	1888	1888	1888	1888
		Width	mm	1020+1280	1020+1280	1280+1280	1280+1280	1280+1280	1280+1680	1280+1680	1680+1680	1680+1680
		Depth	mm	841	841	841	841	841	841	841	841	841
Net Weight			kg	226+311	245+311	310+311	311+311	311+357	311+403	311+421	403+403	403+421
Gross Weight			kg	243+329	262+329	328+329	329+329	329+376	329+427	329+445	427+427	427+445
Refrigerating Installation	Compressor		—	Scroll Comp			Scroll Comp					
	Compressor Model		—	AA50PHDG+ DC80PHDG DC80PHDG+ DC80PHDG DC80PHDG+ DC80PHDG	AA50PHDG+ DC80PHDG	AA50PHDG+ DC80PHDG	DC80PHDG+ DC80PHDG	DC80PHDG+ AA50PHDG+ AA50PHDG	DC80PHDG+ AA50PHDG+ AA50PHDG	DC80PHDG+ DC80PHDG+ DC80PHDG	AA50PHDG+ AA50PHDG	AA50PHDG+ AA50PHDG+ DC80PHDG+ DC80PHDG
	Compressor Quantity		—	2	2	2	2	3	3	3	4	4
	Compressor Motor Output		kW	6.2+10.8	7.4+10.8	9.3+10.8	10.8+10.8	10.8+6.4×2	10.8+6.5×2	10.8+7.5×2	6.5×2+6.5×2	6.5×2+7.5×2
	Refrigeration Oil	Type	—	FV68H			FV68H					
		Brand	—	Idemitsu Kosan			Idemitsu Kosan					
		Charge(Comp)	L	1.1+1.1	1.1+1.1	1.1+1.1	1.1+1.1	1.1+2.2	1.1+2.2	1.1+2.2	2.2+2.2	2.2+2.2
		Charge(Total)	L	12,9	12,9	13,8	13,8	14,8	15,3	15,3	16,8	16,8
	Refrigerant Charge Before Shipment		kg	5+9.9	7.2+9.9	8.9+9.9	9.9+9.9	9.9+10.7	9.9+11.3	9.9+11.3	11.3+11.3	11.3+11.3
	Refrigerant Flow Control		—	Micro-computer Control Expansion Valve			Micro-computer Control Expansion Valve					
	Heat Exchanger Type		—	Multi-Pass Cross-Finned Tube			Multi-Pass Cross-Finned Tube					
	Liquid Pipe		mm	Ø19.05	Ø19.05	Ø19.05	Ø19.05	Ø19.05	Ø19.05	Ø19.05	Ø19.05	Ø19.05
	High/Low Pressure Gas Pipe		mm	Ø25.4	Ø28.6	Ø28.6	Ø28.6	Ø28.6	Ø28.6	Ø31.75	Ø31.75	Ø31.75
	Low Pressure Gas Pipe		mm	Ø31.75	Ø31.75	Ø31.75	Ø31.75	Ø31.75	Ø31.75	Ø38.1	Ø38.1	Ø38.1
Fan	Condenser Fan Quantity		—	3	3	4	4	4	4	4	4	4
	Air Flow Rate		m^3/min	426	446	495	512	512	585	585	658	658
Hole for Power Supply Wiring			mm	65	65	65	65	65	65	65	65	65
Hole for Control Line Wiring			mm	52	52	52	52	52	52	52	52	52

Notes:
The cooling and heating performances are the values when combined with our test indoor units.

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

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

Specifications









Capacity			44HP	46HP	48HP	50HP	52HP	54HP	56HP	58HP	60HP
Model		Unit	RAS-44RNBCLQ	RAS-46RNBCLQ	RAS-48RNBCLQ	RAS-50RNBCLQ	RAS-52RNBCLQ	RAS-54RNBCLQ	RAS-56RNBCLQ	RAS-58RNBCLQ	RAS-60RNBCLQ
Combination			RAS-22RNBCLQ	RAS-22RNBCLQ	RAS-24RNBCLQ	RAS-16RNBCLQ	RAS-16RNBCLQ	RAS-16RNBCLQ	RAS-16RNBCLQ	RAS-16RNBCLQ	RAS-16RNBCLQ
			RAS-22RNBCLQ	RAS-24RNBCLQ	RAS-24RNBCLQ	RAS-16RNBCLQ	RAS-16RNBCLQ	RAS-16RNBCLQ	RAS-16RNBCLQ	RAS-18RNBCLQ	RAS-20RNBCLQ
			/	/	/	RAS-18RNBCLQ	RAS-20RNBCLQ	RAS-22RNBCLQ	RAS-24RNBCLQ	RAS-24RNBCLQ	RAS-24RNBCLQ
			/	/	/	/	/	/	/	/	/
Power Supply		V/Ph/Hz	3N,380-415V/50Hz/60Hz			3N,380-415V/50Hz/60Hz					
Cooling Operation	Nominal Capacity	kW	123,0	129,5	136,0	140,0	146,0	151,5	158,0	163,0	169,0
		Btu/h	419600	441800	464000	477680	498152	516918	539096	556156	576628
	Power Consumption	kW	42,27	47,09	51,91	54,74	55,25	58,02	62,84	62,25	62,76
	EER	W/W	2,91	2,75	2,62	2,56	2,64	2,61	2,51	2,62	2,69
	SEER	—	-	-	-	-	-	-	-	-	-
Heating Operation	Nominal Capacity	kW	123,0	129,5	136,0	140,0	146,0	151,5	158,0	163,0	169,0
		Btu/h	419600	441800	464000	477680	498152	516918	539096	556156	576628
	Power option	kW	39,94	43,91	47,89	49,28	49,52	51,77	55,75	57,33	57,57
	COP	W/W	3,08	2,95	2,84	2,84	2,95	2,93	2,83	2,84	2,94
	SCOP	—	-	-	-	-	-	-	-	-	-
Sound Power		dB(A)	-	-	-	-	-	-	-	-	-
Cabinet Color		—	Natural White (ID8000-100036)			Natural White (ID8000-100036)					
Outer Dimensions	Height	mm	1725	1725	1725	1725	1725	1725	1725	1725	1725
	Width	mm	1608+1608	1608+1608	1608+1608	1218+1218+1218	1218+1218+1608	1218+1218+1608	1218+1218+1608	1218+1218+1608	1218+1608+1608
	Depth	mm	782	782	782	782	782	782	782	782	782
Packing Dimensions	Height	mm	1888	1888	1888	1888	1888	1888	1888	1888	1888
	Width	mm	1680+1680	1680+1680	1680+1680	1280+1280+1280	1280+1280+1680	1280+1280+1680	1280+1280+1680	1280+1280+1680	1280+1680+1680
	Depth	mm	841	841	841	841	841	841	841	841	841
Net Weight		kg	421+421	421+422	422+422	311+311+357	311+311+403	311+311+421	311+311+422	311+357+422	311+403+422
Gross Weight		kg	445+445	445+446	446+446	329+329+376	329+329+427	329+329+445	329+329+446	329+376+446	329+427+446
Refrigerating Installation	Compressor	—	Scroll Comp			Scroll Comp					
	Compressor Model	—	DC80PHDG+ DC80PHDG+ DC80PHDG+ DC80PHDG	DC80PHDG+ DC80PHDG+ DC80PHDG+ DC80PHDG	DC80PHDG+ DC80PHDG+ DC80PHDG+ DC80PHDG	DC80PHDG+ DC80PHDG+ AA50PHDG+ AA50PHDG	DC80PHDG+ DC80PHDG+ AA50PHDG+ AA50PHDG	DC80PHDG+ DC80PHDG+ DC80PHDG+ DC80PHDG	DC80PHDG+ DC80PHDG+ DC80PHDG+ DC80PHDG	DC80PHDG+ AA50PHDG+ AA50PHDG+ DC80PHDG	DC80PHDG+ AA50PHDG+ AA50PHDG+ DC80PHDG+ DC80PHDG
	Compressor Quantity	—	4	4	4	4	4	4	4	5	5
	Compressor Motor Output	kW	7.5×2+7.5×2	7.5×2+8.6×2	8.6×2+8.6×2	10.8+10.8+6.4×2	10.8+10.8+6.5×2	10.8+10.8+7.5×2	10.8+10.8+8.6×2	10.8+6.4×2+ 8.6×2	10.8+6.5×2+ 8.6×2
	Refrigeration Oil Type	—	FV68H			FV68H					
	Refrigeration Oil Brand	—	Idemitsu Kosan			Idemitsu Kosan					
	Refrigeration Oil Charge(Comp)	L	2.2+2.2	2.2+2.2	2.2+2.2	1.1+1.1+2.2	1.1+1.1+2.2	1.1+1.1+2.2	1.1+1.1+2.2	1.1+2.2+2.2	1.1+2.2+2.2
	Refrigeration Oil Charge(Total)	L	16,8	16,8	16,8	22,2	22,2	22,2	22,2	23,2	23,7
	Refrigerant Charge Before Shipment	kg	11.3+11.3	11.3+12.6	12.6+12.6	9.9+9.9+10.7	9.9+9.9+11.3	9.9+9.9+11.3	9.9+9.9+12.6	9.9+10.7+12.6	9.9+11.3+12.6
	Refrigerant Flow Control	—	Micro-computer Control Expansion Valve			Micro-computer Control Expansion Valve					
	Heat Exchanger Type	—	Multi-Pass Cross-Finned Tube			Multi-Pass Cross-Finned Tube					
	Liquid Pipe	mm	Ø19.05	Ø19.05	Ø19.05	Ø19.05	Ø19.05	Ø19.05	Ø22.2	Ø22.2	Ø22.2
	High/Low Pressure Gas Pipe	mm	Ø31.75	Ø31.75	Ø31.75	Ø31.75	Ø31.75	Ø31.75	Ø38.1	Ø41.3	Ø41.3
	Low Pressure Gas Pipe	mm	Ø38.1	Ø38.1	Ø38.1	Ø38.1	Ø38.1	Ø38.1	Ø41.3	Ø44.5	Ø44.5
Fan	Condenser Fan Quantity	—	4	4	4	6	6	6	6	6	6
	Air Flow Rate	m^3/min	658	677	696	768	841	841	860	860	933
Hole for Power Supply Wiring		mm	65	65	65	65	65	65	65	65	65
Hole for Control Line Wiring		mm	52	52	52	52	52	52	52	52	52

Notes:
The cooling and heating performances are the values when combined with our test indoor units.

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

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

Specifications









Capacity			62HP	64HP	66HP	68HP	70HP	72HP	74HP	76HP	78HP
Model		Unit	RAS-62RNBCLQ	RAS-64RNBCLQ	RAS-66RNBCLQ	RAS-68RNBCLQ	RAS-70RNBCLQ	RAS-72RNBCLQ	RAS-74RNBCLQ	RAS-76RNBCLQ	RAS-78RNBCLQ
Combination			RAS-16RNBCLQ	RAS-16RNBCLQ	RAS-18RNBCLQ	RAS-20RNBCLQ	RAS-22RNBCLQ	RAS-24RNBCLQ	RAS-16RNBCLQ	RAS-16RNBCLQ	RAS-16RNBCLQ
			RAS-22RNBCLQ	RAS-24RNBCLQ	RAS-24RNBCLQ	RAS-24RNBCLQ	RAS-24RNBCLQ	RAS-24RNBCLQ	RAS-16RNBCLQ	RAS-16RNBCLQ	RAS-16RNBCLQ
			RAS-24RNBCLQ	RAS-24RNBCLQ	RAS-24RNBCLQ	RAS-24RNBCLQ	RAS-24RNBCLQ	RAS-24RNBCLQ	RAS-18RNBCLQ	RAS-20RNBCLQ	RAS-22RNBCLQ
			/	/	/	/	/	/	RAS-24RNBCLQ	RAS-24RNBCLQ	RAS-24RNBCLQ
Power Supply		V/Ph/Hz	3N,380-415V/50Hz/60Hz			3N,380-415V/50Hz/60Hz					
Cooling Operation	Nominal Capacity	kW	174,5	181,0	186,0	192,0	197,5	204,0	208,0	214,0	219,5
		Btu/h	595394	617572	634632	655104	673870	696048	709696	730168	748934
	Power Consumption	kW	65,53	70,35	69,77	70,27	73,04	77,86	80,70	81,20	83,97
	EER	W/W	2,66	2,57	2,67	2,73	2,70	2,62	2,58	2,64	2,61
	SEER	—	-	-	-	-	-	-	-	-	-
Heating Operation	Nominal Capacity	kW	174,5	181,0	186,0	192,0	197,5	204,0	208,0	214,0	219,5
		Btu/h	595394	617572	634632	655104	673870	696048	709696	730168	748934
	Power Consumption	kW	59,81	63,79	65,37	65,61	67,85	71,83	73,23	73,47	75,71
	COP	W/W	2,92	2,84	2,85	2,93	2,91	2,84	2,84	2,91	2,90
	SCOP	—	-	-	-	-	-	-	-	-	-
Sound Power		dB(A)	-	-	-	-	-	-	-	-	-
Cabinet Color		—	Natural White (ID8000-100036)			Natural White (ID8000-100036)					
Outer Dimensions	Height	mm	1725	1725	1725	1725	1725	1725	1725	1725	1725
	Width	mm	1218+1608+1608	1218+1608+1608	1218+1608+1608	1608+1608+1608	1608+1608+1608	1608+1608+1608	1218+1218+1218 +1608	1218+1218+1608 +1608	1218+1218+1608 +1608
	Depth	mm	782	782	782	782	782	782	782	782	782
Packing Dimensions	Height	mm	1888	1888	1888	1888	1888	1888	1888	1888	1888
	Width	mm	1280+1680+1680	1280+1680+1680	1280+1680+1680	1680+1680+1680	1680+1680+1680	1680+1680+1680	1280+1280+1280 +1680	1280+1280+1680 +1680	1280+1280+1680 +1680
	Depth	mm	841	841	841	841	841	841	841	841	841
Net Weight		kg	311+421+422	311+422+422	357+422+422	403+422+422	421+422+422	422+422+422	311+311+357 +422	311+311+403 +422	311+311+421 +422
Gross Weight		kg	329+445+446	329+446+446	376+446+446	427+446+446	445+446+446	446+446+446	329+329+376 +446	329+329+427 +446	329+329+445 +446
Refrigerating Installation	Compressor	—	Scroll Comp			Scroll					
	Compressor Model	—	DC80PHDG+ DC80PHDG+ DC80PHDG+ DC80PHDG+ DC80PHDG	DC80PHDG+ DC80PHDG+ DC80PHDG+ DC80PHDG+ DC80PHDG	AA50PHDG+ AA50PHDG+ DC80PHDG+ DC80PHDG+ DC80PHDG+ DC80PHDG	AA50PHDG+ AA50PHDG+ DC80PHDG+ DC80PHDG+ DC80PHDG+ DC80PHDG	DC80PHDG+ DC80PHDG+ DC80PHDG+ DC80PHDG+ DC80PHDG+ DC80PHDG	DC80PHDG+ DC80PHDG+ DC80PHDG+ DC80PHDG+ DC80PHDG+ DC80PHDG	DC80PHDG+ DC80PHDG+ AA50PHDG+ AA50PHDG+ DC80PHDG+ DC80PHDG	DC80PHDG+ DC80PHDG+ AA50PHDG+ AA50PHDG+ DC80PHDG+ DC80PHDG	DC80PHDG+ DC80PHDG+ DC80PHDG+ DC80PHDG+ DC80PHDG+ DC80PHDG
	Compressor Quantity	—	5	5	6	6	6	6	6	6	6
	Compressor Motor Output	kW	"10.8+7.5×2+ 8.6×2"	"10.8+8.6×2+ 8.6×2"	"6.4×2+8.6×2+ 8.6×2"	6.5×2+8.6×2+ 8.6×2	7.5×2+8.6×2+ 8.6×2	8.6×2+8.6×2+ 8.6×2	10.8+10.8+ 6.4×2+8.6×2	10.8+10.8+ 6.5×2+8.6×2"	10.8+10.8+ 7.5×2+8.6×2
	Refrigeration Oil Type	—	FV68H			FV68H					
	Refrigeration Oil Brand	—	Idemitsu Kosan			Idemitsu Kosan					
	Refrigeration Oil Charge(Comp)	L	1.1+2.2+2.2	1.1+2.2+2.2	2.2+2.2+2.2	2.2+2.2+2.2	2.2+2.2+2.2	2.2+2.2+2.2	1.1+1.1+2.2+2.2	1.1+1.1+2.2+2.2	1.1+1.1+2.2+2.2
	Refrigeration Oil Charge(Total)	L	23,7	23,7	24,7	25,2	25,2	25,2	30,1	30,6	30,6
	Refrigerant Charge Before Shipment	kg	9.9+11.3+12.6	9.9+12.6+12.6	10.7+12.6+12.6	11.3+12.6+12.6	11.3+12.6+12.6	12.6+12.6+12.6	9.9+9.9+ 10.7+12.6	9.9+9.9+ 11.3+12.6	9.9+9.9+ 11.3+12.6
	Refrigerant Flow Control	—	Micro-computer Control Expansion Valve			Micro-computer Control Expansion Valve					
	Heat Exchanger Type	—	Multi-Pass Cross-Finned Tube			Multi-Pass Cross-Finned Tube					
	Liquid Pipe	mm	Ø22.2	Ø22.2	Ø22.2	Ø25.4	Ø25.4	Ø25.4	Ø25.4	Ø25.4	Ø25.4
	High/Low Pressure Gas Pipe	mm	Ø41.3	Ø41.3	Ø41.3	Ø44.5	Ø44.5	Ø44.5	Ø44.5	Ø44.5	Ø44.5
	Low Pressure Gas Pipe	mm	Ø44.5	Ø44.5	Ø44.5	Ø50.8	Ø50.8	Ø50.8	Ø50.8	Ø50.8	Ø50.8
Fan	Condenser Fan Quantity	—	6	6	6	6	6	6	8	8	8
	Air Flow Rate	m^3/min	933	952	952	1025	1025	1044	1116	1189	1189
Hole for Power Supply Wiring		mm	65	65	65	65	65	65	65	65	65
Hole for Control Line Wiring		mm	52	52	52	52	52	52	52	52	52

Notes:
The cooling and heating performances are the values when combined with our test indoor units.

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

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

Specifications



Capacity			80HP	82HP	84HP	86HP	88HP	90HP class	92HP class	94HP class	96HP class
Model		Unit	RAS-80RNBCLQ	RAS-82RNBCLQ	RAS-84RNBCLQ	RAS-86RNBCLQ	RAS-88RNBCLQ	RAS-90RNBCLQ	RAS-92RNBCLQ	RAS-94RNBCLQ	RAS-96RNBCLQ
Combination			RAS-20RNBCLQ RAS-20RNBCLQ RAS-20RNBCLQ RAS-20RNBCLQ	RAS-20RNBCLQ RAS-20RNBCLQ RAS-20RNBCLQ RAS-22RNBCLQ	RAS-20RNBCLQ RAS-20RNBCLQ RAS-20RNBCLQ RAS-24RNBCLQ	RAS-20RNBCLQ RAS-20RNBCLQ RAS-22RNBCLQ RAS-24RNBCLQ	RAS-20RNBCLQ RAS-20RNBCLQ RAS-24RNBCLQ RAS-24RNBCLQ	RAS-20RNBCLQ RAS-22RNBCLQ RAS-24RNBCLQ RAS-24RNBCLQ	RAS-20RNBCLQ RAS-24RNBCLQ RAS-24RNBCLQ RAS-24RNBCLQ	RAS-22RNBCLQ RAS-24RNBCLQ RAS-24RNBCLQ RAS-24RNBCLQ	RAS-24RNBCLQ RAS-24RNBCLQ RAS-24RNBCLQ RAS-24RNBCLQ
Power Supply		V/Ph/Hz	3N,380-415V/50Hz/60Hz			3N,380-415V/50Hz/60Hz					
Cooling Operation	Nominal Capacity	kW	224,0	229,5	236,0	241,5	248,0	253,5	260,0	265,5	272,0
		Btu/h	764288	783054	805232	823998	846176	864942	887120	905886	928064
	Power Consumption	kW	73,44	76,22	81,04	83,81	88,63	91,40	96,22	99,00	103,82
	EER	W/W	3,05	3,01	2,91	2,88	2,80	2,77	2,70	2,68	2,62
	SEER	—	-	-	-	-	-	-	-	-	-
Heating Operation	Nominal Capacity	kW	224,0	229,5	236,0	241,5	248,0	253,5	260,0	265,5	272,0
		Btu/h	764288	783054	805232	823998	846176	864942	887120	905886	928064
	Power Consumption	kW	70,89	73,13	77,11	79,35	83,33	85,58	89,55	91,80	95,77
	COP	W/W	3,16	3,14	3,06	3,04	2,98	2,96	2,90	2,89	2,84
	SCOP	—	-	-	-	-	-	-	-	-	-
Sound Power		dB(A)	-	-	-	-	-	-	-	-	-
Cabinet Color		—	Natural White (ID8000-100036)			Natural White (ID8000-100036)					
Outer Dimensions	Height	mm	1725	1725	1725	1725	1725	1725	1725	1725	1725
	Width	mm	1608+1608+1608+1608	1608+1608+1608+1608	1608+1608+1608+1608	1608+1608+1608+1608	1608+1608+1608+1608	1608+1608+1608+1608	1608+1608+1608+1608	1608+1608+1608+1608	1608+1608+1608+1608
	Depth	mm	782	782	782	782	782	782	782	782	782
	Height	mm	1888	1888	1888	1888	1888	1888	1888	1888	1888
Packing Dimensions	Width	mm	1680+1680+1680+1680"	1680+1680+1680+1680"	1680+1680+1680+1680"	1680+1680+1680+1680	1680+1680+1680+1680	1680+1680+1680+1680	1680+1680+1680+1680"	1680+1680+1680+1680	1680+1680+1680+1680
	Depth	mm	841	841	841	841	841	841	841	841	841
Net Weight		kg	403+403+403+403	403+403+403+421	403+403+403+422	403+403+421+422	403+403+422+422	403+421+422+422	403+422+422+422	421+422+422+422	422+422+422+422
Gross Weight		kg	427+427+427+427	427+427+427445	427+427+427446	427+427+445+446	427+427+446+446	427+445+446+446	427+446+446+446	445+446+446+446	446+446+446+446
Refrigerating Installation	Compressor	—	Scroll Comp			Scroll Comp					
	Compressor Model	—	AA50PHDG+ AA50PHDG+ AA50PHDG+ AA50PHDG+ AA50PHDG+ AA50PHDG+ AA50PHDG+ AA50PHDG	AA50PHDG+ AA50PHDG+ AA50PHDG+ AA50PHDG+ AA50PHDG+ AA50PHDG+ AA50PHDG+ DC80PHDG	AA50PHDG+ AA50PHDG+ AA50PHDG+ AA50PHDG+ AA50PHDG+ AA50PHDG+ DC80PHDG+ DC80PHDG	AA50PHDG+ AA50PHDG+ AA50PHDG+ AA50PHDG+ DC80PHDG+ DC80PHDG+ DC80PHDG+ DC80PHDG	AA50PHDG+ AA50PHDG+ DC80PHDG+ DC80PHDG+ DC80PHDG+ DC80PHDG+ DC80PHDG+ DC80PHDG	AA50PHDG+ AA50PHDG+ DC80PHDG+ DC80PHDG+ DC80PHDG+ DC80PHDG+ DC80PHDG+ DC80PHDG	AA50PHDG+ AA50PHDG+ DC80PHDG+ DC80PHDG+ DC80PHDG+ DC80PHDG+ DC80PHDG+ DC80PHDG	DC80PHDG+ DC80PHDG+ DC80PHDG+ DC80PHDG+ DC80PHDG+ DC80PHDG+ DC80PHDG+ DC80PHDG	DC80PHDG+ DC80PHDG+ DC80PHDG+ DC80PHDG+ DC80PHDG+ DC80PHDG+ DC80PHDG+ DC80PHDG
	Compressor Quantity	—	8	8	8	8	8	8	8	8	8
	Compressor Motor Output	kW	6.5×2+6.5×2+6.5×2+6.5×2	6.5×2+6.5×2+6.5×2+6.5×2	6.5×2+6.5×2+6.5×2+6.5×2	6.5×2+6.5×2+7.5×2+8.6×2	6.5×2+6.5×2+8.6×2+8.6×2	6.5×2+7.5×2+8.6×2+8.6×2	6.5×2+8.6×2+8.6×2+8.6×2	7.5×2+8.6×2+8.6×2+8.6×2	8.6×2+8.6×2+8.6×2+8.6×2
	Refrigeration Oil — Type	—	FV68H			FV68H					
	Refrigeration Oil — Brand	—	Idemitsu Kosan			Idemitsu Kosan					
	Refrigeration Oil — Charge(Comp)	L	2.2+2.2+2.2+2.2	2.2+2.2+2.2+2.2	2.2+2.2+2.2+2.2	2.2+2.2+2.2+2.2	2.2+2.2+2.2+2.2	2.2+2.2+2.2+2.2	2.2+2.2+2.2+2.2	2.2+2.2+2.2+2.2	2.2+2.2+2.2+2.2
	Refrigeration Oil — Charge(Total)	L	33,6	33,6	33,6	33,6	33,6	33,6	33,6	33,6	33,6
	Refrigerant Charge Before Shipment	kg	11.3+11.3+11.3+11.3	11.3+11.3+11.3+11.3	11.3+11.3+11.3+12.6	11.3+11.3+11.3+12.6	11.3+11.3+12.6+12.6	11.3+11.3+2.6+12.6	11.3+12.6+12.6+12.6	11.3+12.6+12.6+12.6	12.6+12.6+12.6+12.6
	Refrigerant Flow Control	—	Micro-computer Control Expansion Valve			Micro-computer Control Expansion Valve					
	Heat Exchanger Type	—	Multi-Pass Cross-Finned Tube			Multi-Pass Cross-Finned Tube					
	Liquid Pipe	mm	Ø25.4	Ø25.4	Ø25.4	Ø25.4	Ø25.4	Ø25.4	Ø25.4	Ø25.4	Ø25.4
	High/Low Pressure Gas Pipe	mm	Ø44.5	Ø44.5	Ø44.5	Ø44.5	Ø44.5	Ø44.5	Ø44.5	Ø44.5	Ø44.5
	Low Pressure Gas Pipe	mm	Ø50.8	Ø50.8	Ø50.8	Ø50.8	Ø50.8	Ø50.8	Ø50.8	Ø50.8	Ø50.8
Fan	Condenser Fan Quantity	—	8	8	8	8	8	8	8	8	8
	Air Flow Rate	m^3/min	1316	1316	1335	1335	1354	1354	1373	1373	1392
Hole for Power Supply Wiring		mm	65	65	65	65	65	65	65	65	65
Hole for Control Line Wiring		mm	52	52	52	52	52	52	52	52	52

Notes:
The cooling and heating performances are the values when combined with our test indoor units.

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

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

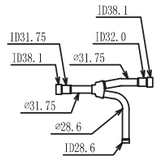
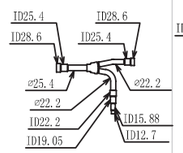
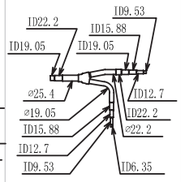
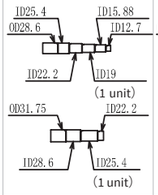
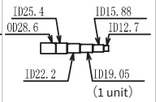
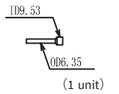
Optionnal parts

PIPING CONNECTION KIT

3 Pipes Heat Recovery System

Model	Outdoor unit capacity	Number of modules of 1 outdoor unit
M-692XNQ	26-36HP class	2
M-902XNQ	38-48HP class	2
M-902XNQ+M-692XNQ	50-54HP class	3
M-M462XF+M-692XNQ	56-60HP class	3
M-M462XF+M-902XNQ	62-66HP class	3
M-M682XF+M-902XNQ	68-72HP class	4
M-M682XF+M-902XNQ+M-692XNQ	74-78HP class	4
M-M682XF+M-902XNQ+M-902XNQ	80-96HP class	4

Example: M-692XNQ#E

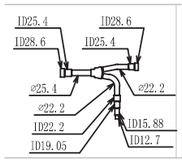
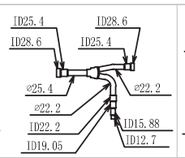
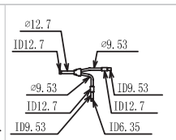
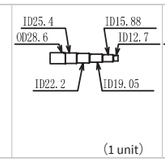
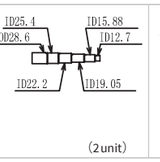
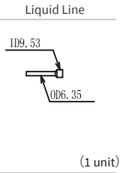
Low Pressure Gas Line	High Pressure Gas Line	Liquid Line	Reducer for Low Pressure Gas Line	Reducer for High Pressure Gas Line	Reducer for Liquid Line
					

MULTI-KIT

1) First Branch Multi kit (3 Pipes Recovery System)

Model	Outdoor unit capacity
M-282XNQ	8-10HP class
M-452XNQ	12-16HP class
M-562XNQ	18-24HP class
M-692XNQ	26-36HP class
M-902XNQ	38-54HP class
M-M462XF	56-66HP class
M-M682XF	68-96HP class

Example: M-452XNQ#E

Low Pressure Gas Line	High Pressure Gas Line	Liquid Line	Reducer for Low Pressure Gas Line	Reducer for High Pressure Gas Line	Reducer for Liquid Line
					

2) Multi-kit after 1st branch and pipe diameter (3 pipes proportion)

Model	Q= Total indoor unit capacity (kW)	Diameter (mm)		
		Low Pressure Gas	High/Low Pressure Gas	Liquid
M-142XNQ	Q<15.9	15,88	12,7	9,53
M-282XNQ	15.9≤Q<25	19,05	15,88	9,53
	25≤Q<33.5	22,2	19,05	9,53
M-452XNQ	33.5≤Q<45	25,4	22,2	12,7
M-562XNQ	45≤Q<50	28,58	22,2	12,7
	50≤Q<61.5	28,58	22,2	15,88
M-692XNQ	61.5≤Q<73	28,58	25,4	15,88
	73≤Q<101	31,75	28,58	19,05
M-902XNQ	101≤Q<158.5	38,1	31,75	19,05
M-M462XF	158.5≤Q<163	41,3	38,1	22,2
	163≤Q<192	44,45	41,3	22,2
M-M682XF	192≤Q	50,8	44,45	25,4

3) Multi-kit after 1st branch and pipe diameter (2 Pipes Heat Pump System)

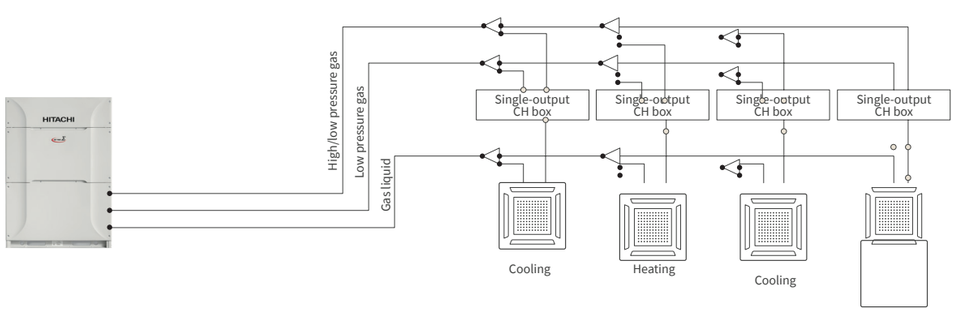
Model	Q= Total indoor unit capacity (kW)	Diameter (mm)	
		Gas Pipe	Liquid Pipe
E-102SN	Q ≤ 15.9	15.88	9.52
	16 ≤ Q < 25	19.05	9.52
	25 ≤ Q < 33.5	22.2	9.52
E-162SN	33.5 ≤ Q < 45	25.4	12.7
	45 ≤ Q < 50	28.58	12.7
E-242SN	50 ≤ Q < 72.9	28.58	15.88
E-302SN	73 ≤ Q < 100.8	31.75	19.05
	101 ≤ Q < 158.5	38.1	19.05
E-462SN	158.5 ≤ Q < 163	41.3	22.2
	163 ≤ Q < 192	44.45	22.2
E-682SN	192 ≤ Q	50.8	25.4

Optionnal parts

SINGLE CH BOX



CH box Single-output: connection in 2 tubes (gas lines only)



Heating

Description

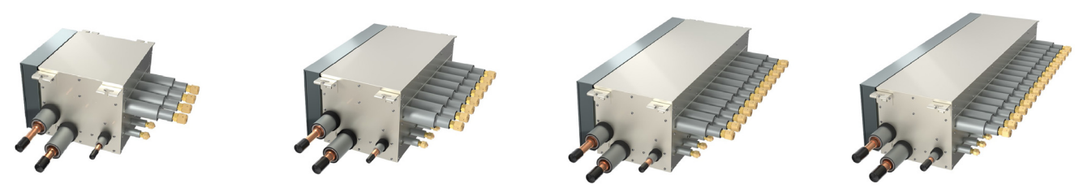
- CH box range with 1 output
- Up to 8 indoor units per CH box
- Compactness
- Lightweight

Single CH boxes		Part no.	CHS-6.0N2	CHS-10N2
Max. Hp power in cooling mode		Hp (kW)	6 (16.0)	10 (28.0)
Number of indoor units that can be connected			1	
Max. lengths after box		m	40	
Difference in height of indoor units connected to the same CH box		m	< 4	
Height difference between each CH box or between a CH box and an indoor unit		m	< 15	
Dimensions (HxWxD)		mm	191 x 300 x 214	
Weight		kg	6.4	6.6
Diameter of cooling system – outdoor group	Gas Line (High/Low Pressure)	mm	15,88	
	Gas Line (Low Pressure)	mm	19,05	
Diameter of cooling system – indoor unit		mm	15,88	19,05
Sound pressure level		dBA	33 (46 max*)	

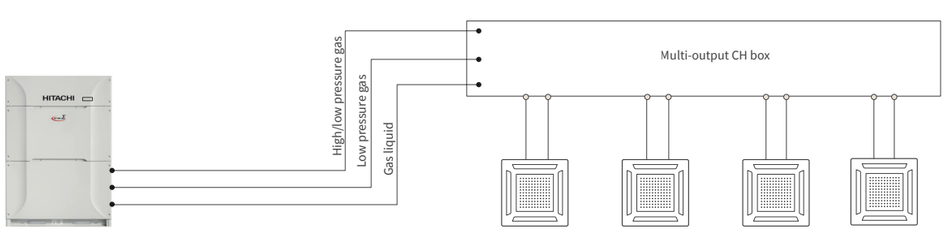
* Max. noise means the maximum operating noise level of the CH box emitted when the unit is in simultaneous cooling and heating or in defrost mode.

MULTI CH BOXES

CH box Single-output: connection in 2 tubes (gas lines only)



CH box Multi-output: connection in 3 tubes



Description

- Range of multi-output CH boxes
- Up to 96 indoor units per CH box
- Low-height
- Low-volume
- Lightweight

Multi CH boxes		Part no.	CHM-4.0N2	CHM-8.0N2	CHM-12N2	CHM-16N2
Output qty			4	8	12	16
Max. IU qty per output			8	8	8	8
Total max. capacity per CH		Hp (kW cooling)	16 (44.8)	30 (85.0)	30 (85.0)	30 (85.0)
Total max. capacity per branch		Hp (kW cooling)	6 (16.0)			
Max. lengths after box		m	40			
Difference in height of indoor units connected to the same CH box		m	< 4			
Height difference between each CH box or between a CH box and an indoor unit		m	< 15			
Dimensions (HxWxD)		mm	260 x 303 x 352	260 x 543 x 352	260 x 783 x 352	260 x 1023 x 352
Weight		kg	13,6	23,9	25,4	28,6
Diameter of cooling system- outdoor group par piping diameter (Outdoor unit side)	Gas Line (High/Low Pressure)	mm	22,2	22,2	1” - 1” 1/8 - 5/8”	1” 1/8 - 1” 1/4 - 3/4”
	Gas Line (Low Pressure)	mm	25,4	28,6	28,6	31,75
	Liquid Line	mm	12,7	12,7	15,88	19,05
Diameter of cooling system- indoor unit par piping diameter (Indoor unit side)	Gas Line (Low Pressure)	mm	15,88	15,88	15,88	15,88
	Gas Line (Low Pressure)	mm	9,52	9,52	9,52	9,52
Sound pressure level		dBA	31 (46 max*)	31 (46 max*)	34 (46 max*)	34 (46 max*)

* Max. noise means the maximum operating noise level of the CH box emitted when the unit is in simultaneous cooling and heating or in defrost mode.



VRF INDOOR UNITS

36 LINE-UP SUMMARY

37 OUR KEY INDOOR FEATURES

45 INDOOR AIR QUALITY

48 SOLUTIONS DUCTED UNITS

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

53 CEILING CASSETTES

55 Silent-Iconic™ (4-way cassette design panel)
57 4-way cassette [RCI-FSR(1), RCI-FSKDN1Q] (DC)
58 4-way compact cassette [RCIM-HBUSQ] (DC) NEW
59 1-way cassette [RCIS-FSKDNQ] (DC)

61 OTHER INDOOR UNITS

63 Wall mounted [RPK-HNBUSQ] (DC)
64 Floor/Ceiling convertible [RPFC-FSNQ] (AC)
64 Floor concealed [RPFI-FSNQ] (AC)

67 SPECIFICATIONS & ACCESSORIES



Comfort first

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

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

Line-up summary

Over 18 types available!

DUCTED | The ultimate invisibility

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



NEW
HIGH ESP (DC)
RPIH-HNDUSQ



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



LOW ESP (AC)
RPIL-HNAUN1Q



COMPACT (AC)
RPIZ-HNATN1Q



COMPACT (DC)
RPIZ-HNDTS1Q



CASSETTE | Consistent air reaching every corner of a room

4-WAY CASSETTE (DC)
RCI-FSR(1)



Color variation

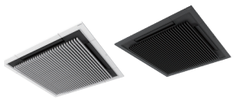
4-WAY CASSETTE (DC)
RCI-FSKDN1Q



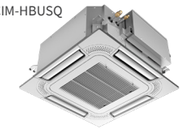
TWIN-SENSE SYSTEM
RCI-FSR(1)+ P-AP160NAE2
RCI-FSKDN1Q+ P-AP160NAE2+OPT-EZJ01



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



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



1-WAY CASSETTE (DC)
RCIS-FSKDNQ



OTHERS | Minimal installation or retrofit works

WALL MOUNTED (DC)
RPK-HNBUSQ



FLOOR/CEILING CONVERTIBLE (AC)
RPFC-FSNQ



FLOOR CONCEALED (AC)
RPFI-FSNQ



HYDRO MODULE
RWMG-WNATAQ



Our key indoor features

Hitachi air, making a difference.

EXCLUSIVE

GENTLECOOL (FOR COOLING OPERATION)



RCI-FSR(1)
(all panels)
RCI-FSKDN1Q



PC-ARFG2-E

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.



EXCLUSIVE

CROWD-SENSE: PREDICTIVE ADJUSTMENT TO OCCUPANCY VARIATIONS



RCI-FSR(1)
+
P-AP160NAE2



RCI-FSKDN1Q
+
P-AP160NAE2
+
OPT-EZJ01



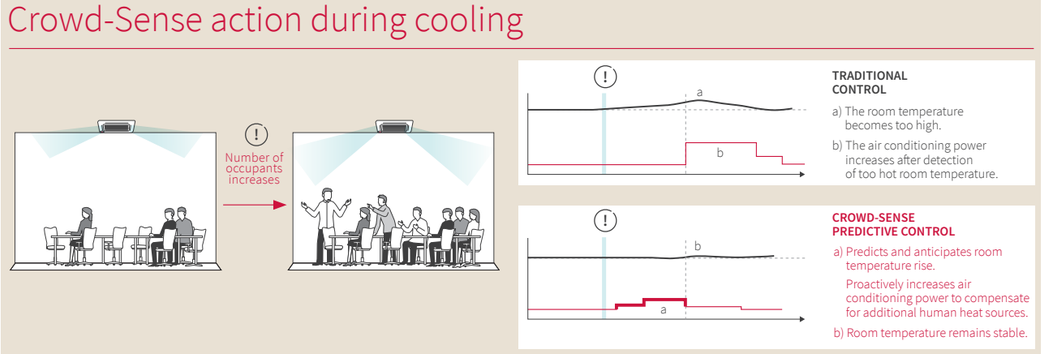
PC-ARFG2-E

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

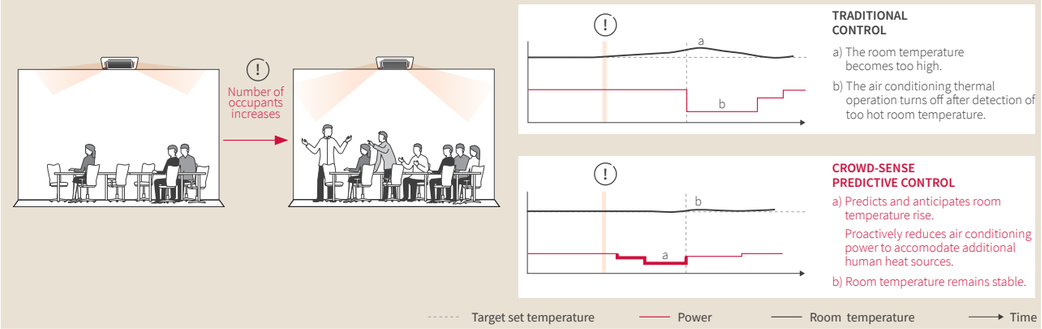
With conventional air conditioning, the arrival of more occupants creates new sources of heat and may naturally disrupt indoor thermal comfort. With Crowd-Sense predictive control, enjoy a stable indoor temperature whenever the size of the crowd changes.

- Hitachi Twin-Sense cassette detects the crowd's arrival or departure.
- Using AI, the cassette can anticipate the addition or reduction of human heat sources and immediately adjusts the air conditioning accordingly.

Crowd-Sense action during cooling



Crowd-Sense action during heating



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

Our key indoor features

Hitachi air, making a difference.

FEETWARM (FOR HEATING OPERATION)



RCI-FSR(1)
+
P-AP160NAE2



RCI-FSKDN1Q
+
P-AP160NAE2
+
OPT-EZJ01



PC-ARFG2-E

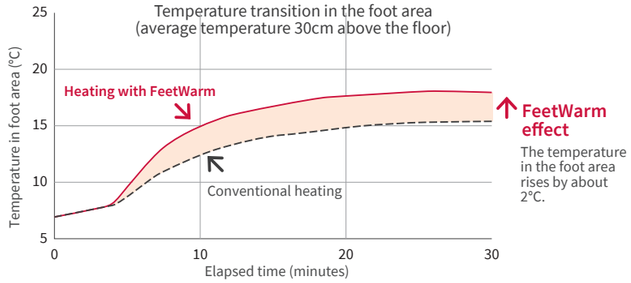
Head to toe comfort during winter.

Intelligent heated air distribution, tailored for the human body.

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

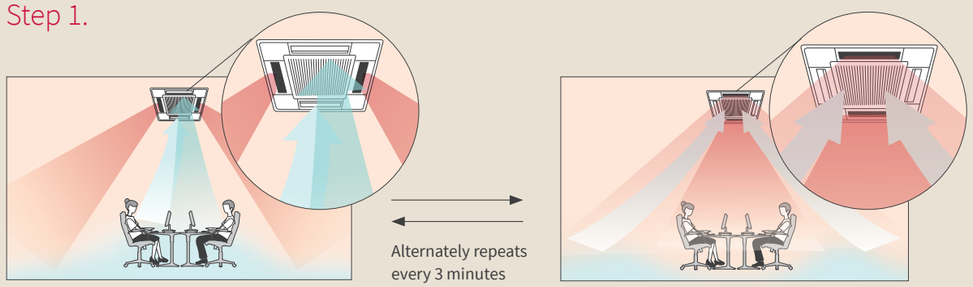
FeetWarm's boasts 4 intelligent features:

- Thanks to the Twin-Sense radiant sensor, it can detect heat stratification effects inside the room, which usually cause the floor and lower levels to be cooler.
- A 2-step action to first create consistent warmth, then to maintain it.
- Advanced heat air flow optimization, by sophisticated control of the 4-way cassette's individual louvers.
- The lower levels of the room (floor level, feet level, leg level) reach desired temperatures, for total comfort.



How does it work?

Step 1.

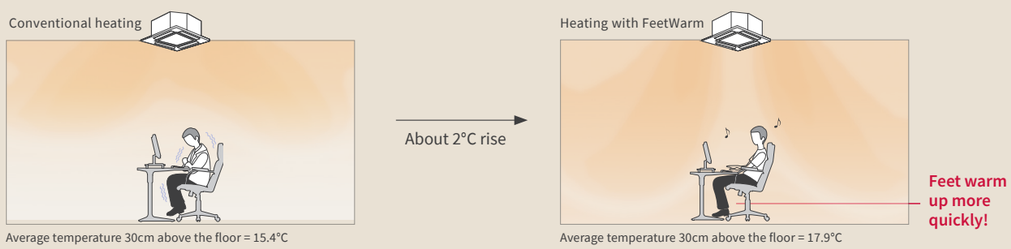


1. The radiant sensor detects a temperature drop in the floor and around your feet.
2. The cassette partially closes two louvers automatically.
3. The air flow strengthens through the two remaining open louvers, and targets the floor to warm it up quickly*1. Louver openings alternate every three minutes from wide open to partially closed to cover a wider floor area.
4. As louver openings close, suction increases in the central inlet grill for a faster warming effect.

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

Effect of FeetWarm- Step 1

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

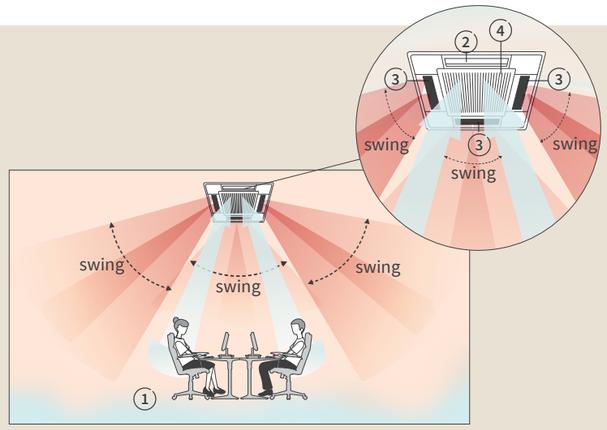


[Image based on calculation results]



Step 2

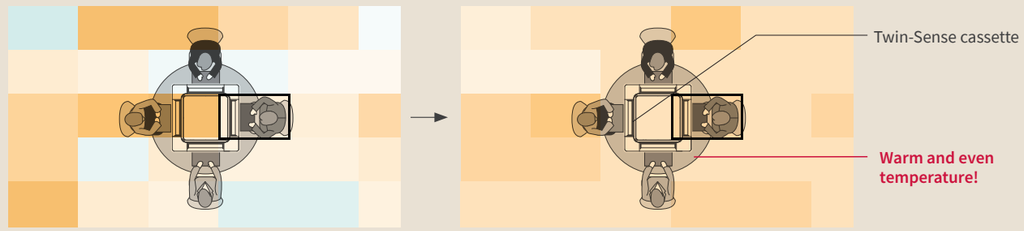
1. When the radiant temperature sensor detects that the lower level is no longer cold, FeetWarm shifts to its second step for a more even temperature everywhere in the room.
2. One louver remains closed.
3. Three remaining open louvers follow Auto-Swing air flow direction, continuously moving up/down. This leads to faster circulation of the warm air in all areas of the room.
4. Suction of colder air remains facilitated thanks to the one partially closed louver.



Effect of FeetWarm- Step 2

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)



RCI-FSR(1)
+
P-AP160NAE2



RCI-FSKDN1Q
+
P-AP160NAE2
+
OPT-EZJ01

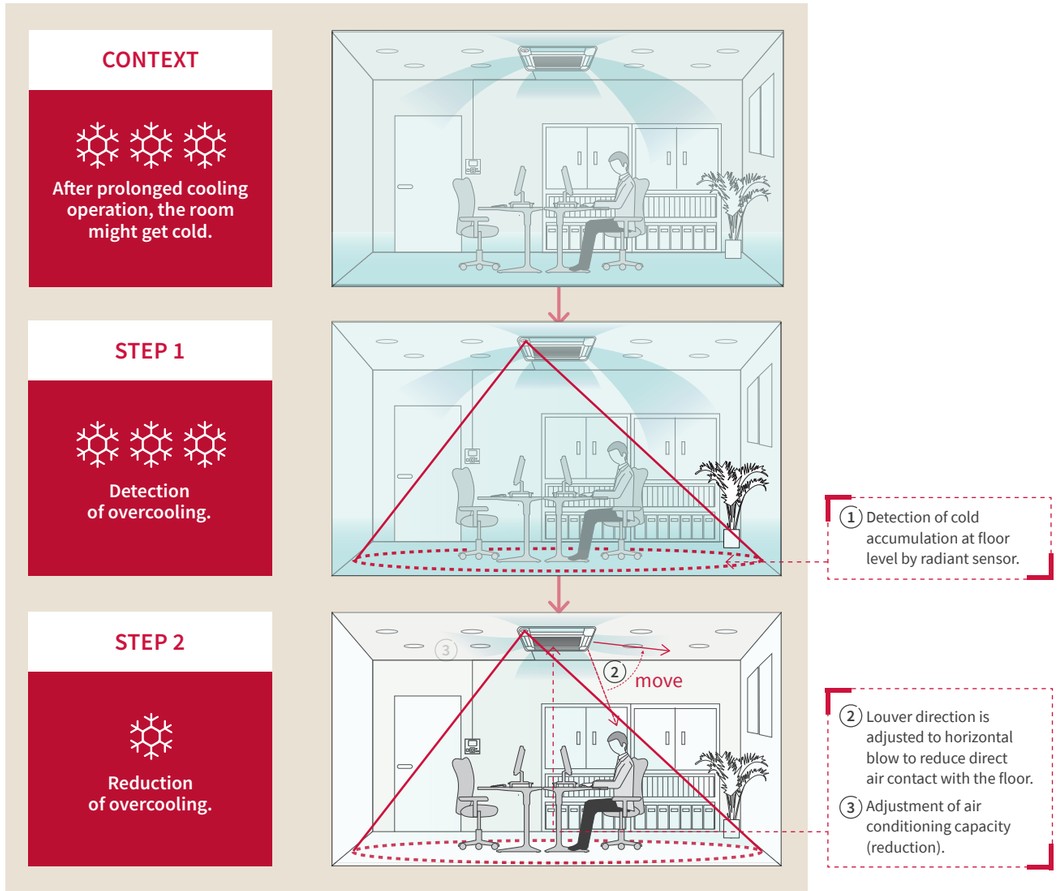


PC-ARFG2-E

Prevents floor overcooling

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

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



CHOICE OF DIRECT OR INDIRECT AIR FLOW



RCI-FSR(1)
+
P-AP160NAE2



RCI-FSKDN1Q
+
P-AP160NAE2
+
OPT-EZJ01



PC-ARFG2-E

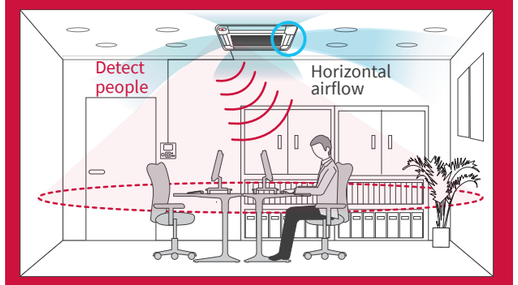
Want to feel the air? Or do you prefer imperceptible air? Choose the preferred air sensation and let the air conditioner adjusts the louver direction to your liking.

Our 4-zone motion sensor divides the room into 4 areas and can detect presence in each of them.

- Choose Direct air flow: the Twin-Sense cassette will target the corners with human activity.
- Choose Indirect air flow: Twin-Sense cassette will avoid the corners where occupants are detected.

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

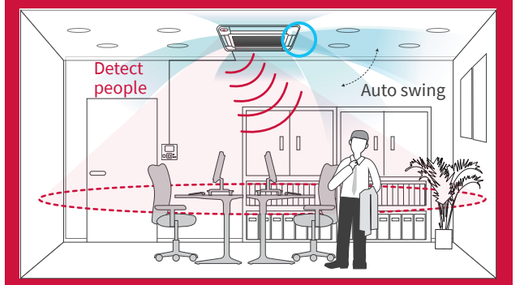
Horizontal air flow, for circulation above and around occupants without air blowing directly on them.



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

Direct air flow: air flowing sensation to the body

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



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

Notes:
When room vacancy is detected, the air is directed in the way the controller (PC-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

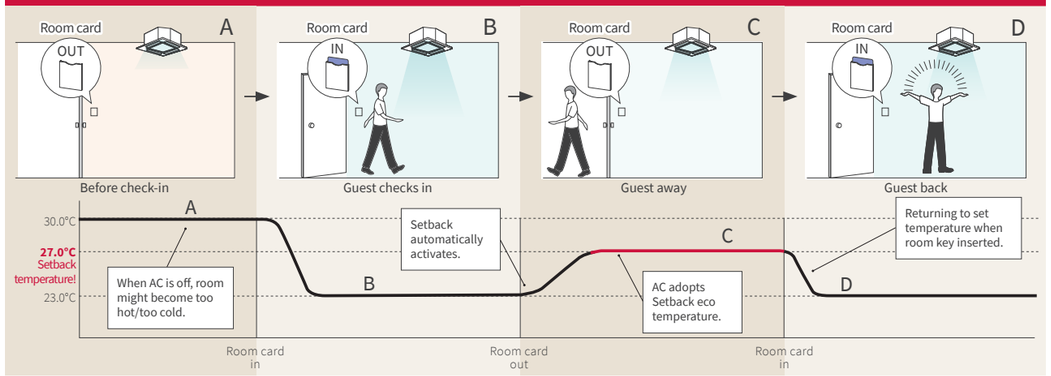


RCI-FSR(1)
(all panels)
RCI-FSKDN1Q



PC-ARFG2-E

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



AUTO-SAVE (WITH MOTION SENSOR)



RCI-FSR(1)
(P-AP160NAE2)



RCI-FSKDN1Q
+
P-AP160NAE2
+
OPT-EZJ01



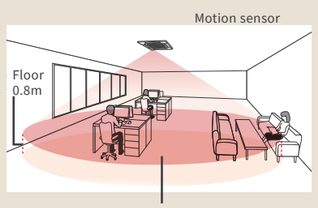
PC-ARFG2-E

Save more energy while improving comfort!

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

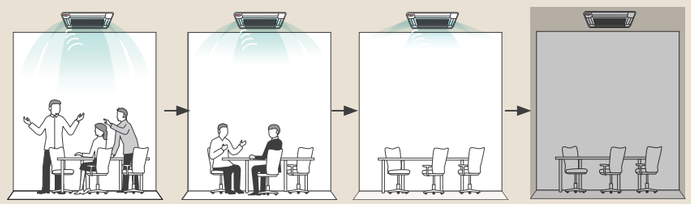
HOW DOES IT WORK?

Motion sensor



Detects human activity in each of the 4 zones

Auto-save



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

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

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

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



Indoor Air Quality

Live and work in harmony

Hitachi IAQ accessory Line-up

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

STANDARD-EQUIPPED FILTER

VIROSENSE S FILTER

We have renewed our standard air filter for some of our Hitachi VRF indoor units with 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-FSR(1))						4-way Cassette (RCI-FSKDN1Q)	
TWIN-SENSE 4-way Panel	Standard 4-way Panel	Standard 4-way Panel	Silent-Iconic	Silent-Iconic Auto-elevating grille	Silent-Iconic	Standardized Panel	TWIN-SENSE 4-way Panel
White	White	Black	White	White	Black	-	White
							
P-AP160NAE2	P-AP160NA3	P-AP160KA3	P-GP160NAP	P-GP160NAPU	P-GP160KAP	(Standard Equip-ped)	P-AP160NAE2 + OPT-EZJ01

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

Live and work in harmony

OPTIONAL ACCESSORY FILTER

AQTIV-ION KIT



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.

COMMON FACTORS AFFECTING INDOOR AIR QUALITY

Various pathogenic factors including bacteria and certain viruses caused by insufficient ventilation.

Breeding of bacteria, mold and damage to household items, allergies caused by high humidity in wet season.

Formaldehyde, ammonia, benzene and a variety of volatile organic compounds released by decoration materials.

Second-hand smoking and kitchen oil fume.

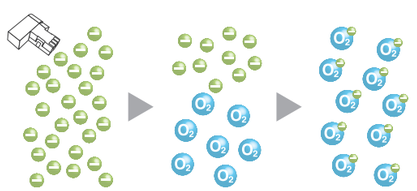
Dust and mites from fabrics, such as beddings and pet dander might cause allergies.

HOW AQTIV-ION KIT WORKS

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

AQTIV-ION KIT TECHNOLOGY

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

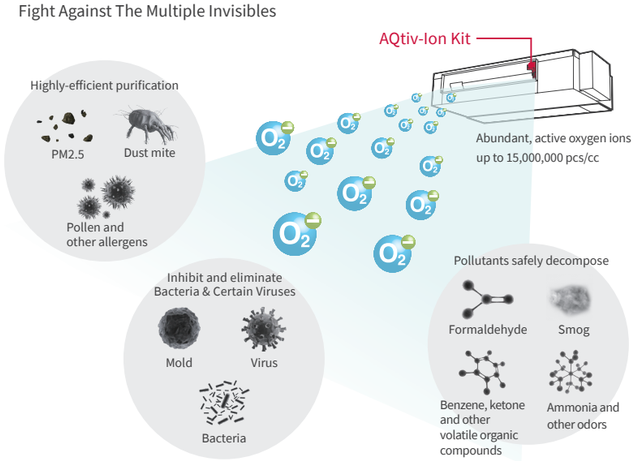


AQtiv-Ion Kit releases high-speed electrons into the room.

The free electrons collide with O_2 molecules.

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

Fight Against The Multiple Invisibles



Indoor Air Quality

Live and work in harmony

AQTIV-ION KIT APPLICATIONS



Classroom



Condominium

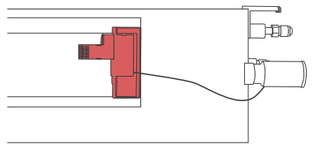


Meeting Room

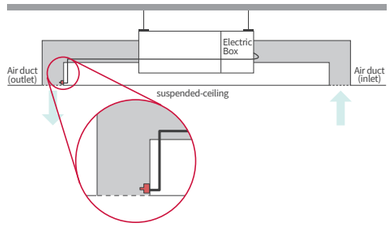


Hotel

(1) Inside the indoor unit (air outlet)



(2) Inside the air duct (air outlet)



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.

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

[Infruenza virus]

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

[Formaldehyde] [Anmonia]

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

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

COMPATIBLE INDOOR UNITS WITH AQTIV-ION KIT

HIGH ESP (AC)
RPIH-HNAUN1Q**



HIGH ESP (DC)
RPIH-HNDUSQ**



MEIDIUM ESP (AC)
RPIM-HNAUN1Q**



LOW ESP (AC)
RPIL-HNAUN1Q**



COMPACT (AC)
RPIZ-HNATN1Q**



COMPACT (DC)
RPIZ-HNDTS1Q**



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

Solutions

Ducted units

AIR CONDITIONING TURNED INVISIBLE!

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



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

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

NEW



HIGH ESP (DC)
[RPIH-HNDUSQ]

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



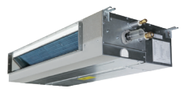
MEDIUM ESP (AC)
[RPIM-HNAUN1Q, RPI-FSN3Q]

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



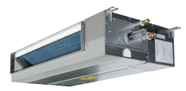
LOW ESP (AC)
[RPIL-HNAUN1Q]

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



COMPACT (AC)
[RPIZ-HNATN1Q]

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



COMPACT (DC)
[RPIZ-HNDTS1Q]

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

FROM 2.2KW TO 28KW

Cooling (kW)	2.2	2.8	3.6	4.0	4.3	4.5	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
HIGH ESP (AC) [RPIH-HNAUN1Q, RPI-FSNQ]												●	●	●		●	●		●	●
NEW HIGH ESP (DC) [RPIH-HNDUSQ]	●	●	●			●		●		●			●	●	●		●		●	●
MEDIUM ESP (AC) [RPIM-HNAUN1Q, RPI-FSN3Q]	●	●	●		●		●	●	●	●									●	●
LOW ESP (AC) [RPIL-HNAUN1Q]	●	●	●		●		●	●	●	●		●	●	●		●	●			
COMPACT (AC) [RPIZ-HNATN1Q]	●	●	●	●			●	●	●	●										
COMPACT (DC) [RPIZ-HNDTS1Q]	●	●	●	●			●	●	●	●										

Solutions

Ducted units

FEATURES COMPARISON

			HIGH ESP (AC)	NEW HIGH ESP (DC)	HIGH/MEDIUM ESP (8/10HP) (AC)	MEDIUM/LOW ESP (AC)	COMPACT (AC)	COMPACT (DC)
Model			RPIH-HNAUN1Q	RPIH-HNDUSQ	RPI-FSNQ RPI-FSN3Q	RPIM-HNAUN1Q RPIL-HNAUN1Q	RPIZ-HNATN1Q	RPIZ-HNDTS1Q
COMFORT	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	Power Saving with Motion Sensor (*2)		-	-	-	-	-	-
	Outdoor Unit capacity control (*2)	Peak cut control	-	-	-	-	-	-
		Moderate control	-	-	-	-	-	-
	Indoor Unit Rotation Control (*2)	Indoor Unit Address	-	-	-	-	-	-
		Indoor Air Temperature difference	-	-	-	-	-	-
	Automatic Fan Operation		●	●	●	●	●	●
MENU	AutoBoost (quick function) (*2)		-	-	-	-	-	-
	Daylight Saving Time		●	●	●	●	●	●
	Power Consumption visualization (*2)		-	-	-	-	-	-
	Weekly Schedule Setting		●	●	●	●	●	●
	Power-Saving Setting (*2)		-	-	-	-	-	-
MAINTENANCE	Filter cleaning reminder		●	●	●	●	●	●
	Check Menu	Sensor Condition Check	●	●	●	●	●	●
		Model Display (*2)	-	-	-	-	-	-
		Indoor/Outdoor PCB Check	●	●	●	●	●	●
		Alarm History Display	●	●	●	●	●	●
OPTIONAL ACCESSORY	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-10HPIE	-	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%

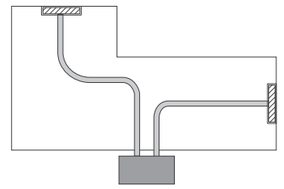
HIGH ESP HIGH EXTERNAL STATIC PRESSURE

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

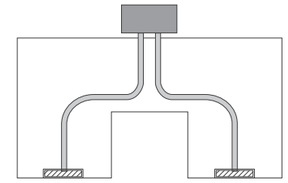


1) High ESP. (90/120/180Pa)
2)Space saving design thanks to a height of only 300mm. (RPIH-HNAUN1Q)
3) Flexible installation. Options allow for multiple configurations.
4) Optional drain pump. Drain-up mechanism can be supplied as optional part.
5) Compatible with AQtiv-Ion Kit (Optional accessory)

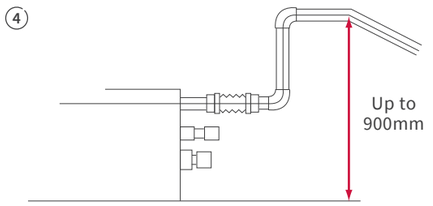
③ L-shaped space



U-shaped space



④



NEW

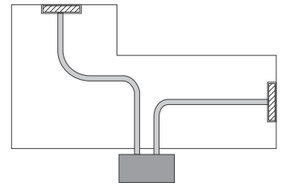
HIGH ESP HIGH EXTERNAL STATIC PRESSURE

(DC) [RPIH-HNDUSQ]

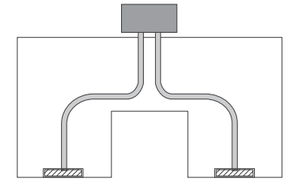


1) High external pressure up to 150Pa
2) Flexible installation allowing for multiple configurations
3) Optional drain-pump: Drain-up mechanism can be supplied as optional accessory
4) Compatible with AQtiv-Ion Kit (Optional accessory)

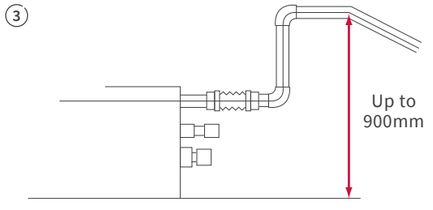
② L-shaped space



U-shaped space



③



Solutions

Ducted units

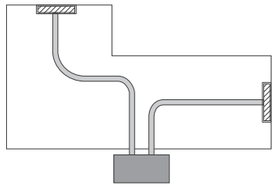


MEDIUM ESP MEDIUM EXTERNAL STATIC PRESSURE

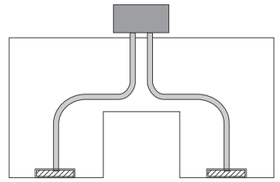
(AC) [RPIM-HNAUN1Q, RPI-FSN3Q]

1) **Medium ESP.** (50/80Pa for 0.8-2.5HP class, 100Pa for 8.0-10.0HP class)
2) **Space saving design thanks to a height of only 270mm.** (0.8-2.5HP class) or 470mm (8.0-10.0HP class)
3) **Flexible installation.**
   Options allow for multiple configurations.
4) **Optional drain pump.**
   Drain-up mechanism can be supplied as optional part.
5) **Compatible with AQtiv-Ion Kit**
   (Optional accessory)

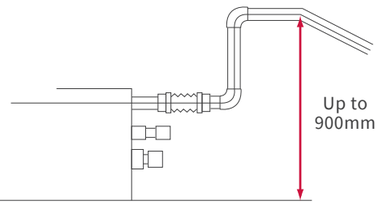
③ L-shaped space



U-shaped space



④



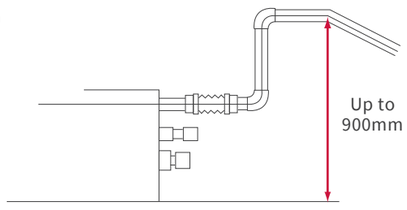


LOW ESP (LOW EXTERNAL STATIC PRESSURE)

(AC) [RPIL-HNAUN1Q]

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

③



COMPACT

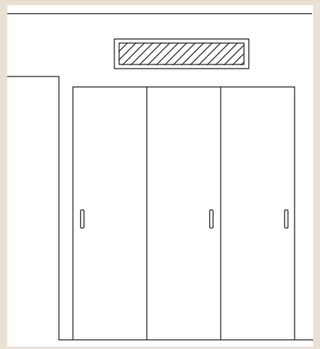
(AC) [RPIZ-HNATN1Q]



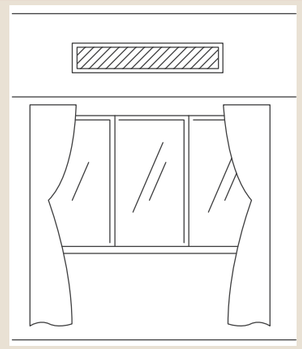
1) Ideal for installation over closets or windows thanks a more compact design, 192mm high.
2) Drain-pump with 900mm lift as standard optional part.
3) Quiet operation level.
   (as low as 20dB(A))
4) Fan air flow rate up to 6 taps.
   (DC motor model only)
5) Compatible with AQtiv-Ion Kit
   (Optional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

①

Over a closet



In dropped ceiling, over window



COMPACT

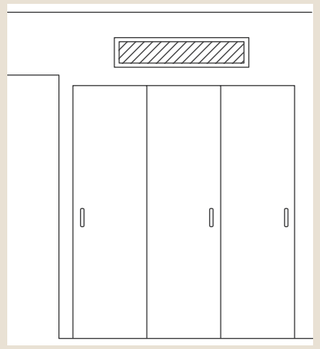
(DC) [RPIZ-HNDTS1Q]



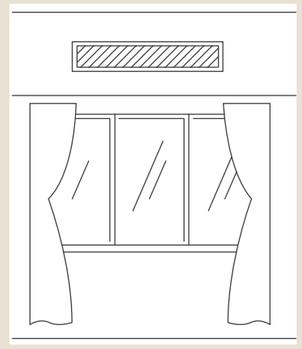
1) Ideal for installation over closets or windows thanks to a more compact design, 192mm high.
2) Drain-pump with 900mm lift as standard optional part.
3) Quiet operation level.
   (as low as 22.5dB(A))
4) Fan air flow rate up to 6 taps.
   (DC motor model only)
5) Compatible with AQtiv-Ion Kit
   (Optional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

①

Over a closet



In dropped ceiling, over window



Solutions

Ceiling cassettes

PREMIUM DESIGN & INNOVATIVE FEATURES

Meet with our newly upgraded offer, for upgraded comfort!





Twin-Sense panel
(P-AP160NAE2)

4-WAY CASSETTE (DC)

[RCI-FSR(1)]

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

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

(with P-GP160NAPU)
- Maintenance will be enormously improved by the auto-elevation grille.
- Compatible with ViroSense Z2 filter!
- ViroSense S filter as standard!

Silent-Iconic™



P-GP160NAP,
P-GP160KAP

Color variation (RCI-FSR)



Silent-Iconic™ with elevation grille



P-GP160NAPU





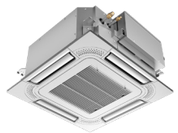
Twin-Sense panel
(P-AP160NAE2)

4-WAY CASSETTE (DC)

[RCI-FSKDN1Q]

- With area of air distribution with 7 direction of louvers (distribution with distance available with optional parts (duct flange))
- Individual four-way louvres for greater comfort for individual users
- Ideal for a higher ceiling location for installation (up to 5.5m in cooling mode)
- Setback temperature control available, leading to better operation.
- GentleCool control to ensure you are not bothered by cold draft
- Compatible with ViroSense Z2 filter!
- ViroSense S filter as standard!

NEW



4-WAY COMPACT CASSETTE (DC)

[RCIM-HBUSQ]

- Made to give you greater design flexibility as the dimensions fit 620mm×620mm architectural module ceiling specifications
- Quiet operation level (as low as 26dB(A))
- Wide range of air flow rate ideal for high ceiling installation with 4.2m air blow down in cooling mode
- Motion sensor available for better energy saving operation



1-WAY CASSETTE (DC)

[RCIS-FSKDNQ]

- The thickness of the indoor unit is only 192mm with fashion appearance ,it's easy to install.
- Provide fresh air inlet hole on indoor unit.
- The angle of the wind deflector can be adjusted to send air to all corners of the room.
- DC fan motor with 6-step fan speed to meet different requirement of airflow.
- High-lift DC drain pump can be adapted to various installation conditions with low noise and low power consumption.

FROM 1.6KW TO 16KW

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

Solutions (Ceiling cassettes)

FEATURES COMPARISON

Model			4-WAY CASSETTE TYPE (DC MOTOR TYPE) RCI-FSR(1)	4-WAY CASSETTE TYPE (DC MOTOR TYPE) RCI-FSKDN1Q	4-WAY CASSETTE COMPACT TYPE (DC MOTOR TYPE) NEW RCIM-HBUSQ	1-WAY CASSETTE TYPE (DC MOTOR TYPE) RCIS-FSKDNQ
COMFORT	Temperature Setting Rate		0.5°C/1.0°C	0.5°C/1.0°C	0.5°C/1.0°C	0.5°C/1.0°C
	Fan Speed		4 taps	4 taps	4 taps	4 taps
	Louver Direction		7 (*4)	7 (*4)	7 (*4)	7 (*5)
	Individual Louver Setting		●	●	●	-
	Auto Louver Setting		●	●	●	●
	Dry mode Availability		●	●	●	●
	Setback (Away Function)		●	●	●	●
	Cold Draft Prevention Availability (*1)		●	●	●	●
	Comfort setting	Control Cool Air (GentleCool) (*2)	●	●	●	●
	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		P-AP160NAE2 P-AP160NA3 P-AP160KA3 P-GP160NAP P-GP160NAPU P-GP160KAP	Standard Decoration panel P-AP160NAE2	-	P-AP36CNA P-AP56CNA P-AP80CNA
POWER-SAVING	Power Saving with Motion Sensor (*2)		●	●	●	●
	Outdoor Unit capacity control (*2)	Peak cut control	●	●	●	●
		Moderate control	●	●	●	●
	Indoor Unit Rotation Control (*2)	Indoor Unit Address	●	●	●	●
		Indoor Air Temperature difference	●	●	●	●
	Automatic Fan Operation		●	●	●	●
MENU	AutoBoost (quick function) (*2)		●	●	●	●
	Daylight Saving Time		●	●	●	●
	Power Consumption visualization (*2)		●	●	●	●
	Weekly Schedule Setting		●	●	●	●
	Power-Saving Setting (*2)		●	●	●	●
MAINTENANCE	Filter cleaning reminder		●	●	●	●
	Check Menu	Sensor Condition Check	●	●	●	●
		Model Display (*2)	●	-	-	●
		Indoor/Outdoor PCB Check	●	●	●	●
		Alarm History Display	●	●	●	●
OPTIONAL ACCESSORY	Colored Panel availability		● (*6)	-	-	● (*6)
	Motion Sensor		P-AP160NAE2	P-AP160NAE2	PS-CMSK	SOR-NES
	Receiver Kit for wireless remote controller		PC-ALH3	HR4A10NEWQ PC-ALH3	PC-ALHC1	PC-ALHS1
	Drain-up mechanism availability		● (*3)	● (*3)	● (*3)	● (*3)
	Fresh air intake accessory		● (*7)	-	● (*7)	● (*7)
	Decoration Panel		P-AP160NAE2 P-AP160NA3 P-AP160KA3	Standard	PHKM50PAQ1	P-AP36CNA P-AP56CNA P-AP80CNA
	Design Panel Silent-Iconic		P-GP160NAP P-GP160NAPU P-GP160KAP	-	-	-
	ViroSense Z2 filter (optional) compatible with		P-AP160NAE2 P-AP160NA3 P-AP160KA3 P-GP160NAP P-GP160NAPU P-GP160KAP	Standard Decoration panel P-AP160NAE2	-	-
	Air filter		F-71L-D1 F-160L-D1 B-160H3	-	-	-

(*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 satndard
- ·Lasts up to 5 years (12500h)
- ·Anti-virus (→99% inhibition)
- ·Anti-bacteria (→99% inhibition)
- ·Anti-mold100% growth stop)

ViroSense Z2 filter



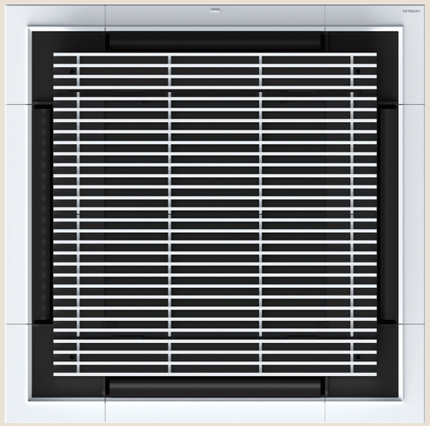
Features
- ·Optional Accessory
- ·Lasts up to 4 years (10000h)
- ·Quick & easy to install/ change from existing filters
- ·Anti-virus (→99.7% inhibition): better than Ion filter
- ·Anti SARS-CoV-2 (→99.9% inhibition)

Solutions

Ceiling cassettes

SILENT-ICONIC™ 4-WAY CASSETTE DESIGN PANEL

Exclusive panel: architectural designers will love it!



reddot winner 2021
best of the best

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

iF Design Award 2020
Award Winning
(Discipline: Product)

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

Tomohiko Sato

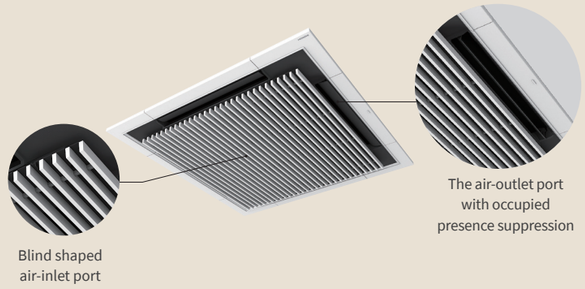
Hitachi, Ltd. Product Design Department, Senior Designer



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

The design is well-matched to the space

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







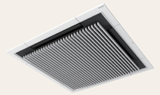


iPhone Augmented Reality: try and visualize Silent-Iconic™ design in your space!

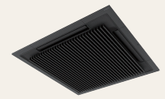
With Augmented Reality, you can visualize Hitachi 4-way cassette or Silent-Iconic™ cassette installed in your actual space.



4-way Cassette
Air Conditioner

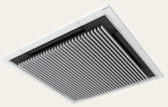


Silent-Iconic™
White



Silent-Iconic™
Black

Instructions for use.



1. Scan the QR code*7 and open the web page.

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

2. Tap the icon.

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



3. AR mode is activated.

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



4. Adjustment of placement location.

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

Operating environment

[Device]	
iPhone*1	iPhone 13 Pro / iPhone 13 Pro Max / iPhone 13 / iPhone 13 mini /i Phone 12 Pro / iPhone 12 Pro Max / iPhone 12 / iPhone 12 mini / iiPhone 11 Pro / iPhone 11 Pro Max / iPhone 11 / iPhone XS / iPhone XS Max / iPhone XR / iPhone X / iPhone 8 Plus / iPhone 8 / iPhone 7 Plus / iPhone 7 / iPhone 6s Plus / iPhone 6s / iPhone SE2 / iPhone SE
iPad*2	iPad Pro (all models) / iPad (6th generation) / iPad (5th generation)
[OS]	iOS*3 12.1 or later
[Browser]	Safari*4 / Google Chrome*5 / Firefox*6

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

Solutions

Ceiling cassettes



4-WAY CASSETTE

(DC) [RCI-FSR(1), RCI-FSKDN1Q]

DECORATION PANEL LINE-UP

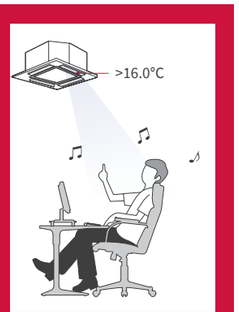
Normal	Smart	Asthetics	Maintenance
Standard	with motion sensor + radiant temperature sensor	Color Panel Design Panel	Silent-Iconic™ with Elevation Grille
P-AP160NA3	P-AP160NAE2	-	P-GP160NAPU
		Standard (Custom Order)  Beige Gray Black Silent-Iconic™  White P-GP160NAP Black P-GP160KAP	
(H×W×D) 40×950×950(mm)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

TWIN-SENSE CASSETTE

Adaptive comfort for real life.

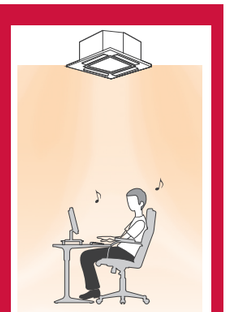
EXCLUSIVE
GENTLECOOL

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



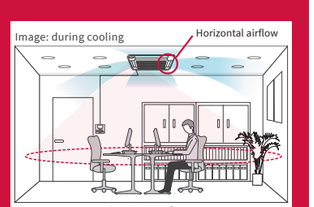
FEETWARM

(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.

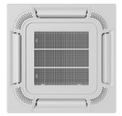


NEW

4-WAY COMPACT CASSETTE

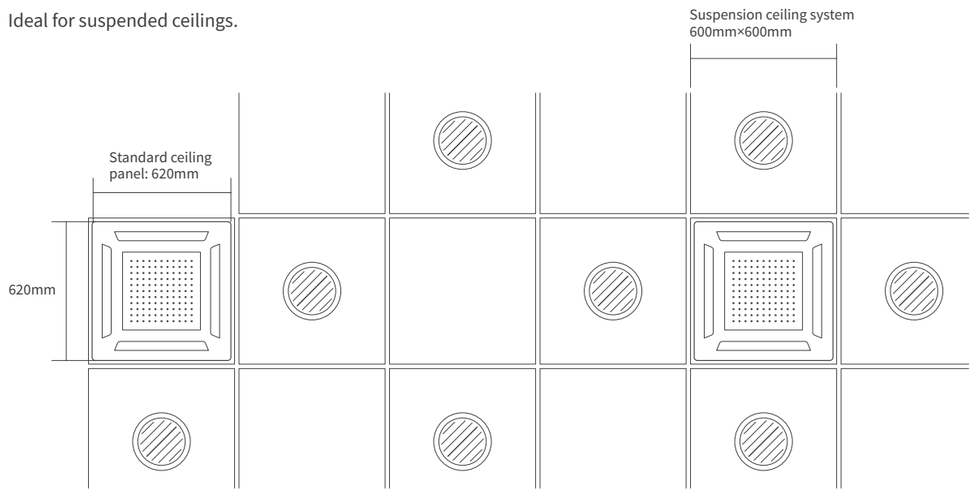
(DC) [RCIM-HBUSQ]





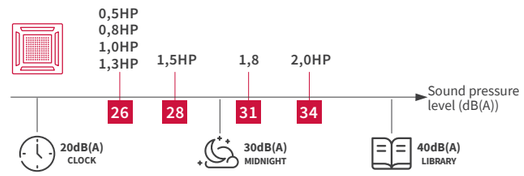
Decoration panel
[PHKM50PAQ1]

① Ideal for suspended ceilings.

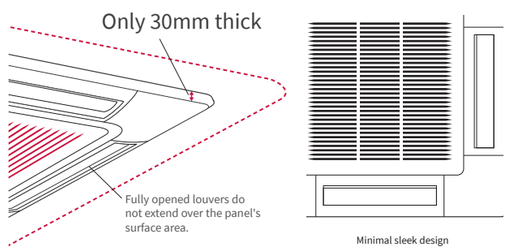


The 600x600 unit can fit in between lighting panels without any disruption.

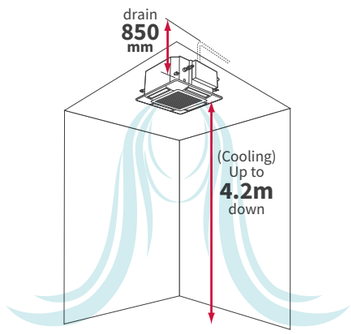
② Whisper quiet sound level.



③ Esthetics.



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

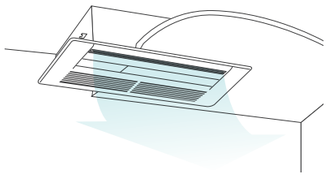


Solutions

Ceiling cassettes

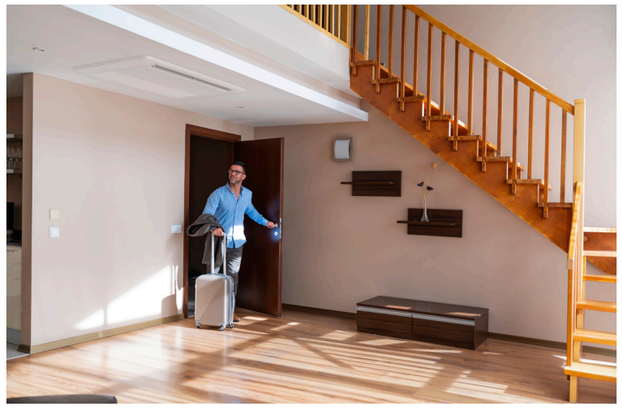
1-WAY CASSETTE
(DC) [RCIS-FSKDNQ]

① Installation.



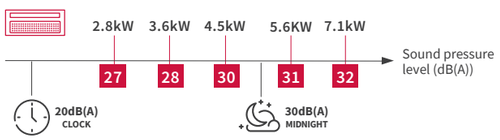
In corner with open louvers (typical).

Allows for ceiling planning for lighting and interiors, suitable for installation near the window.



② Whisper quiet sound level.

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





Solutions

Other indoor units

WIDE RANGE OF MODELS FOR MINIMAL INSTALLATION WORKS

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



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



FLOOR CONCEALED (AC)
[RPFI-FSNQ]

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



HYDRO MODULE
[RWMG-WNATAQ]

- Ideal for installations that need hot water production.
- Easy installation and maintenance.
- Operation in heat pump and heat recovery.
- Maximum hot water outlet temperature : + 55 °C.

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	20.0	28.0	33.5
WALL MOUNTED (DC) [RPK-HNBUSQ]			●	●	●	●		●	●	●	●										
FLOOR / CEILING CONVERTIBLE (AC) [RPFC-FSNQ]								●	●	●	●		●	●	●		●				
FLOOR CONCEALED (AC) [RPFI-FSNQ]				●			●		●		●										
HYDRO MODULE [RWMG-WNATAQ]																		●	●	●	●

FEATURES COMPARISON

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

(*1) This function is utilized to prevent cold discharged air at start-up of heating operation, after defrosting operation, etc.
(*2) Advanced wired remote controller PC-ARF1 needs to be connected.
(*3) Included as standard equipment.
(*4) 7 steps are avilable by individual louver setting. 5 steps only in the operation of Cooling or Dry.
(*5) 5 steps only in the operation of Cooling or Dry.
(*6) 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-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.

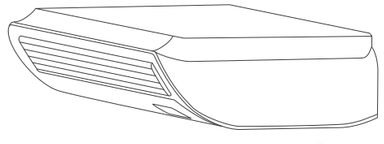


FLOOR/CEILING CONVERTIBLE

(AC) [RPFC-FSNQ]

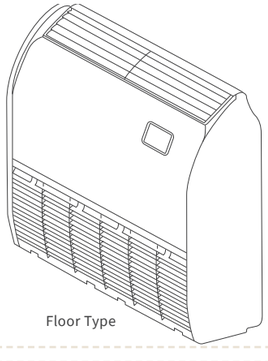
① 2-in-1 versatile unit.

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

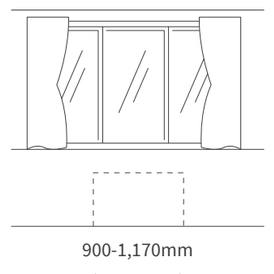
② New air-intake design.
Equipped with air-intakes, the unit can be connected to ventilation equipment such as a Total Heat Exchanger using a duct, providing better interior air quality.

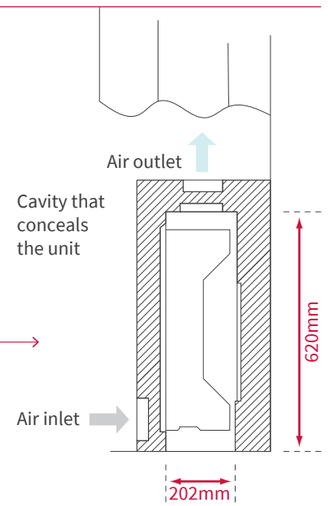


FLOOR CONCEALED

(AC) [RPFI-FSNQ]

- Blends unobtrusively with any interior décor: only the suction and discharge grilles are visible.
- Its low height (only 620mm) enables the unit to fit perfectly beneath a window.
- Requires little installation space thanks to its slim 202mm depth.







HYDRO MODULE

RWMG-WNATAQ

All the applications in a single system: water heating (up to +55 °C) in combination with SetFree Sigma heat pump and heat recovery VRF systems

Model		Unit	RWMG-6.0WNATAQ	RWMG-7.0WNATAQ	RWMG-10WNATAQ	RWMG-12WNATAQ
Power Supply		V/Ph/Hz	220V~50Hz			
Heating Capacity (Nom)		kW	16	20	28	33.5
Standby Power		kW	0.015			
Dimensions (H*W*D)		mm	890x250x320			
Net Weight		kg	65	65	67	67
Water Pump	Pump Lift (External Lift)	kPa	90	70	-	
	Input Power (Max)	W	180		-	
Heat Exchanger	Type		Brazed plate heat exchanger			
	Quantity		1			
	Water Storage capacity	L	1.96		2.94	
	Heating water flow rate	m^3/h	2.75	3.44	4.82	5.76
Expansion Tank	Volume	L	8		10	
	Maximum water pressure	bar	3			
Water Circuit	Piping diameter	inch	G 1-1/4"			
	Safety valve	bar	3			
Refrigerant Circuit	Gas	mm	Φ15.88		Φ19.05	
	Liquid	mm	Φ9.53		Φ12.7	
Sound Pressure		dB(A)	35			
Flow protection value (min)		m^3/h	0.84		1.44	
Water outlet temperature range		°C	20~55			

Built-in components

The hydraulic module in the low temperature version allows the transfer of energy from the outdoor unit's refrigerant circuit to the heating/system hydraulic circuit and to produce domestic hot water. Maximum hot water outlet temperature: + 55 °C.

Flexible installation

The low temperature version has the following features:

- Compact design for wall-mounting
- Inverter driven water pump and expansion vessel installed in the appliance chassis
- All internal components are easily accessible to facilitate maintenance operations
- Access to the hydraulic and refrigerant connections for safe and rapid installation.

High flexibility

The low temperature module can be connected to SetFree Sigma outdoor units in heat pump and heat recovery applications.

Specifications & accessories

HIGH ESP HIGH EXTERNAL STATIC PRESSURE

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



Model			RPIH-3.0HNAUN1Q	RPIH-3.3HNAUN1Q	RPIH-4.0HNAUN1Q	RPIH-5.0HNAUN1Q	RPIH-6.0HNAUN1Q	RPI-8.0FSNQ	RPI-10.0FSNQ
Indoor Unit Power Supply			AC 1Ø, [220-240V/50Hz]					AC 3Ø, [380-415V/50Hz]	
Nominal Capacity	Cooling	kW	8.4	9.0	11.2	14.2	16.0	22.4	28.0
	Heating	kW	9.6	10.0	13.0	16.3	18.0	25.0	31.5
Sound Pressure Level	(Hi/Me/Lo)	dB(A)	42/39/34	42/39/34	43/39/34	44/41/37	48/42/37	50	52
Outer Dimension	H×W×D	mm	300×1,175×800	300×1,175×800	300×1,175×800	300×1,475×800	300×1,475×800	470×1,060×1,120	470×1,250×1,120
Net Weight		kg	45	45	45	53	54	96	104
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi/Me/Lo)	m^3/min	30/28/23	30/28/23	30/28/23	35.5/32/27	41/33/26	58	72
External Static Pressure (*3)		Pa	120(90)	120(90)	120(90)	120(90)	120(90)	180	180
Connections			Flare-Nut Connection (with Flare Nuts)					Brazing connection	
Refrigerant Piping Diameter	Liquid Line	mm	Ø9.52	Ø9.52	Ø9.52	Ø9.52	Ø9.52	Ø9.52	Ø9.52
	Gas Line	mm	Ø15.88	Ø15.88	Ø15.88	Ø15.88	Ø15.88	Ø19.05	Ø22.23
Condensate Drain			VP25	VP25	VP25	VP25	VP25	VP25	VP25
Approximate Packing Volume		m^3	0.40	0.40	0.40	0.49	0.49	0.90	1.06

Receiver Kit	Basic	PC-RLH11
	Advanced	PC-ALHZ1
Condensate Drain Pump Kit	PRIH-HNAUN1Q	DUPI-361Q
	PRI-FSNQ	DUPI-15H2Q
Air filter	3.0-4.0 (HP)	KW-PP9Q
	5.0-6.0 (HP)	KW-PP10Q
AQtiv-Ion Kit	PRIH-HNAUN1Q	JK-LZAQ

Notes:

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

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

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 meters
Piping Lift:0 meter



NEW

HIGH ESP HIGH EXTERNAL STATIC PRESSURE

(DC) [RPIH-HNDUSQ]



Model		Unit	RPIH-0.8HNDUSQ	RPIH-1.0HNDUSQ	RPIH-1.3HNDUSQ	RPIH-1.5HNDUSQ	RPIH-2.0HNDUSQ
Power Supply		V/Ph/Hz	220-240V 50Hz/60Hz				
Nominal Cooling Capacity		kW	2,2	2,8	3,6	4,5	5,6
		kcal/h	1900	2400	3100	3900	4800
		Btu/h	7500	9600	12300	15400	19100
Nominal Heating Capacity		kW	2,5	3,2	4	4,6	6,3
		kcal/h	2200	2800	3400	4000	5400
		Btu/h	8500	10900	13700	17100	21600
Cooling Power Consumption		kW	0,04	0,04	0,055	0,055	0,055
Heating Power Consumption		kW	0,04	0,04	0,055	0,055	0,055
Noise Level		Sound Pressure-dB(A)	30/27/23/21/20/19	30/27/23/21/20/19	35/33/32/28/26/24	35/33/32/28/26/24	33/30/27/25/23/22
Outer Dimensions	Height	mm	270	270	270	270	270
Net Weight		kg	23	23	24	24	30
Refrigerant		-	R410A (Nitrogen-Charged for Corrosion-Resistance)				
Air Flow Rate		m3/h	540/480/408/ 378/348/318	540/480/408/ 378/348/318	720/660/600/ 540/480/432	720/660/600/ 540/480/432	870/780/690/ 630/570/522
External Pressure		Pa	30/40/50/60/70/80/90/100/110/120/130/140/150				
Piping Connection		-	Flare-nut Connection(with Flare Nuts)				
Liquid Line		mm	Ø6.35	Ø6.35	Ø6.35	Ø6.35	Ø6.35
Gas Line		mm	Ø12.7	Ø12.7	Ø12.7	Ø12.7	Ø15.88
Condensate Drain		-	VP25(Outer Diameter Ø32mm)				
Approximate Packing		m3	0,3	0,3	0,3	0,3	0,38

RPIH-2.5HNDUSQ	RPIH-3.0HNDUSQ	RPIH-4.0HNDUSQ	RPIH-5.0HNDUSQ	RPIH-6.0HNDUSQ	RPIH-8.0HNDUSQ	RPIH-10.0HNDUSQ
220-240V 50Hz/60Hz					[220~240V/50Hz] [220V/60Hz]	
7,1	9	11,2	14	16	22,4	28
6100	7700	9600	12000	13800	19300	24100
24200	30800	38000	48000	54500	76500	95600
8	10	12,5	16	18	25	31,5
6900	8600	10700	13800	15500	21500	27100
27400	34200	42500	54500	61500	85300	107500
0,074	0,1	0,132	0,18	0,223	0,49	0,83
0,074	0,1	0,132	0,18	0,223	0,49	0,83
33/31/28/ 25/23/21	34/32/30/ 28/25/22	37/35/31/ 29/26/23	38/36/34/ 31/29/26	41/38/35/ 33/30/27	49/48/47/ 46/45/44	53/52/50/ 49/47/45
300	300	300	300	300	470×1,250×1,120	470×1,250×1,120
40	40	40	49	49	104	104
R410A (Nitrogen-Charged for Corrosion-Resistance)					R410A (Nitrogen-Charged for Corrosion-Resistance)	
1236/1140/1020/ 900/830/750	1500/1380/1260/ 1140/1020/900	1680/1500/1380/ 1260/1140/1020	2130/1950/1770/ 1590/1410/1230	2340/2130/1860/ 1590/1410/1308	3420/3240/3120/ 3060/2940/2850	4320/4080/3900/ 3660/3450/3000
50/60/70/80/90/100/110/120/130/140/150/160/170/180/190/200					150	
Flare-nut Connection(with Flare Nuts)					Brazing connection	
Ø9.53	Ø9.53	Ø9.53	Ø9.53	Ø9.53	Ø9.53	Ø9.53
Ø15.88	Ø15.88	Ø15.88	Ø15.88	Ø15.88	Ø22.2	Ø22.2
VP25(Outer Diameter Ø32mm)						
0,53	0,53	0,53	0,65	0,65	1.08	1.08

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

Specifications & accessories



MEDIUM ESP MEDIUM EXTERNAL STATIC PRESSURE

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

Model			RPIM-.8HNAUN1Q	RPIM-.0HNAUN1Q	RPIM-.3HNAUN1Q	RPIM-1.5HNAUNQ	RPIM-.8HNAUN1Q	RPIM-.0HNAUN1Q	RPIM-.3HNAUN1Q	RPIM-.5HNAUN1Q	RPI-8.0FSN3Q	RPI-10.0FSN3Q
Indoor Unit Power Supply			AC 1Ø, [220-240V/50Hz]								AC 3Ø, [380-415V/50Hz]	
Nominal Capacity	Cooling	kW	2.2	2.8	3.6	4.3	5.0	5.6	6.3	7.1	22.4	28.0
	Heating	kW	2.8	3.3	4.2	4.9	5.6	6.5	7.5	8.5	25.0	31.5
Sound Pressure Level	(Hi/Me/Lo)	dB(A)	32/27/24	32/27/24	35/33/28	35/33/28	35.5/33/28	35.5/33/28	39/34/26	39/34/26	50	52
Outer Dimension	(H×W×D)	mm	270×725 ×720	270×725 ×720	270×725 ×720	270×725 ×720	270×975 ×720	270×975 ×720	270×975 ×720	270×975 ×720	470×1,060 ×1,120	470×1,250 ×1,120
Net Weight		kg	24	24	25	25	31	31	32	32	96	104
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi/Me/Lo)	m^3/min	10/8/7	10/8/7	12/11/9	12/11/9	16/14/11.5	16/14/11.5	20/16/11	20/16/11	58(56*)	72(70*)
External Static Pressure (*3)		Pa	50(80)	50(80)	50(80)	50(80)	50(80)	50(80)	50(80)	50(80)	100	100
Connections			Flare-Nut Connection (with Flare Nuts)								Brazing connection	
Refrigerant Piping Diameter	Liquid Line	mm	Ø6.35	Ø6.35	Ø6.35	Ø6.35	Ø6.35	Ø6.35	Ø9.52	Ø9.52	Ø9.52	Ø9.52
	Gas Line	mm	Ø12.7	Ø12.7	Ø12.7	Ø12.7	Ø15.88	Ø15.88	Ø15.88	Ø15.88	Ø19.05	Ø22.23
Condensate Drain			VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25
Approximate Packing Volume		m^3	0.22	0.22	0.22	0.22	0.28	0.28	0.28	0.28	0.90	1.06

Receiver Kit	Basic	PC-RLH11
	Advanced	PC-ALHZ1
Condensate Drain Pump Kit	0.8-2.5 (HP)	DUPI-131Q
	8.0-10.0 (HP)	DUPI-15H2Q
Air filter	0.8-1.5 (HP)	KW-PP7Q
	1.8-2.5 (HP)	KW-PP8Q
AQtiv-Ion Kit	PRIM-HNAUN1Q	JK-LZAQ

Notes:

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

Cooling Operation Conditions		Heating Operation Conditions	
Indoor Air Inlet Temperature:	27.0°C DB 19.0°C WB	Indoor Air Inlet Temperature:	2 0 . 0 ° C DB
Outdoor Air Inlet Temperature:	35.0°C DB	Outdoor Air Inlet Temperature:	7.0°C DB 6.0°C WB
Piping Length:	7.5 meters	Piping Length:	7.5 meters
Piping Lift:	0 meter	Piping Lift:	0 meter

2. The sound pressure level is based on following conditions. 1.4 meter Beneath the unit. With Discharge Duct (2.0 meter) and Return Duct (1.0 meter). 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.



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 1Ø, [220-240V/50Hz]						
Nominal Capacity	Cooling	kW	2.2	2.8	3.6	4.3	5.0	5.6	6.3
	Heating	kW	2.8	3.3	4.2	4.9	5.6	6.5	7.5
Sound Pressure Level	(Hi/Me/Lo)	dB(A)	28/25/22	28/25/22	34/32/30	34/32/30	34/32/29	34/32/29	36.5/30.5/25
Outer Dimension	(H×W×D)	mm	270×725×720	270×725×720	270×725×720	270×725×720	270×975×720	270×975×720	270×975×720
Net Weight		kg	24	24	25	25	31	31	32
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi/Me/Lo)	m^3/min	9/8/7	9/8/7	13/11/9	13/11/9	15/14/12	15/14/12	21/14/11
External Static Pressure (*3)		Pa	30	30	30	30	30	30	30
Connections			Flare-Nut Connection (with Flare Nuts)						
Refrigerant Piping Diameter	Liquid Line	mm	Ø6.35	Ø6.35	Ø6.35	Ø6.35	Ø6.35	Ø6.35	Ø9.52
	Gas Line	mm	Ø12.7	Ø12.7	Ø12.7	Ø12.7	Ø15.88	Ø15.88	Ø15.88
Condensate Drain			VP25	VP25	VP25	VP25	VP25	VP25	VP25
Approximate Packing Volume		m^3	0.22	0.22	0.22	0.22	0.28	0.28	0.28

Model			RPIL-2.5HNAUN1Q	RPIL-3.0HNAUN1Q	RPIL-3.3HNAUN1Q	RPIL-4.0HNAUN1Q	RPIL-5.0HNAUN1Q	RPIL-6.0HNAUN1Q
Indoor Unit Power Supply			AC 1Ø, [220-240V/50Hz]					
Nominal Capacity	Cooling	kW	7.1	8.4	9.0	11.2	14.2	16.0
	Heating	kW	8.5	9.6	10.0	13.0	16.3	18.0
Sound Pressure Level	(Hi/Me/Lo)	dB(A)	36.5/30.5/25	38/30/24	38/30/24	38/35/31	44/39/35	46/41/35
Outer Dimension	(H×W×D)	mm	270×975×720	300×1,175×800	300×1,175×800	300×1,175×800	300×1,475×800	300×1,475×800
Net Weight		kg	32	45	45	45	53	54
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi/Me/Lo)	m^3/min	21/14/11	29/25/21	29/25/21	29/25/21	36/31/26	42/34/26
External Static Pressure (*3)		Pa	30	60	60	60	60	60
Connections			Flare-Nut Connection (with Flare Nuts)					
Refrigerant Piping Diameter	Liquid Line	mm	Ø9.52	Ø9.52	Ø9.52	Ø9.52	Ø9.52	Ø9.52
	Gas Line	mm	Ø15.88	Ø15.88	Ø15.88	Ø15.88	Ø15.88	Ø15.88
Condensate Drain			VP25	VP25	VP25	VP25	VP25	VP25
Approximate Packing Volume		m^3	0.28	0.40	0.40	0.40	0.49	0.49

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

Air filter	0.8-1.5 (HP)	KW-PP7Q
	1.8-2.5 (HP)	KW-PP8Q
	3.0-4.0 (HP)	KW-PP9Q
	5.0-6.0 (HP)	KW-PP10Q
AQtiv-Ion Kit		JK-LZAQ

Notes:

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

Cooling Operation Conditions		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:	35.0°C DB	Outdoor Air Inlet Temperature:	7.0°C DB 6.0°C WB
Piping Length:	7.5 meters	Piping Length:	7.5 meters
Piping Lift:	0 meter	Piping Lift:	0 meter

2. The sound pressure level is based on following conditions. 1.4 meter Beneath the unit. With Discharge Duct (2.0 meter) and Return Duct (1.0 meter). 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



COMPACT

(DC) [RPIZ-HNDTS1Q]

Model			RPIZ-0.8HNDTS1Q	RPIZ-1.0HNDTS1Q	RPIZ-1.3HNDTS1Q	RPIZ-1.5HNDTS1Q	RPIZ-1.8HNDTS1Q	RPIZ-2.0HNDTS1Q	RPIZ-2.3HNDTS1Q	RPIZ-2.5HNDTS1Q
Indoor Unit Power Supply			AC 1Ø, [220-240V/50Hz] [220V/60Hz]							
Nominal Capacity	Cooling	kW	2.2	2.8	3.6	4.0	5.0	5.6	6.3	7.1
	Heating	kW	2.5	3.2	4.0	4.5	5.6	6.3	7.1	8.0
Sound Pressure Level	(6 taps)	dB(A)	33/31/28/25/23.5/22.5	33/31/28/25/23.5/22.5	33/31/28/25/23.5/22.5	31/30/28/25/22/20	36/33.5/31/28/24.5/22.5	36/33.5/31/28/24.5/22.5	37/36/33/30/28/25	37/36/33/30/28/25
Outer Dimension	H×W×D	mm	192×700×447	192×700×447	192×700×447	192×910×447	192×1,180×447	192×1,180×447	192×1,180×447	192×1,180×447
Net Weight		kg	17	17	17	20	24	24	24	24
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(6 taps)	m^3/min	8.5/8/7/6/5.5/5	8.5/8/7/6/5.5/5	8.5/8/7/6/5.5/5	10/9/8/7.5/6.5/6	14.5/13.2/11.8/10.5/9.2/8.0	14.5/13.2/11.8/10.5/9.2/8.0	16.5/15/13/12/10/9	16.5/15/13/12/10/9
External Static Pressure (*3)		Pa	10(0-10-30)	10(0-10-30)	10(0-10-30)	10(0-10-30)	10(0-10-50)	10(0-10-50)	10(0-10-50)	10(0-10-50)
Connections			Flare-Nut Connection (with Flare Nuts)							
Refrigerant Piping Diameter	Liquid Line	mm	Ø6.35	Ø6.35	Ø6.35	Ø6.35	Ø6.35	Ø6.35	Ø9.52	Ø9.52
	Gas Line	mm	Ø12.70	Ø12.70	Ø12.70	Ø12.70	Ø15.88	Ø15.88	Ø15.88	Ø15.88
Condensate Drain			VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25
Approximate Packing Volume		m^3	0.142	0.142	0.142	0.15	0.18	0.18	0.18	0.18

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

Air filter	0.8-1.5 (HP)	KW-PP5Q
	1.8-2.5 (HP)	KW-PP6Q
AQtiv-Ion Kit		JK-LZAQ

Notes:

1. The cooling capacities above show the maximum capacities when the outdoor and indoor temperature are under the following conditions.
   Cooling Operation Conditions
   Indoor Air Inlet Temperature:..... 27.0°C DB / 19.0°C WB
   Outdoor Air Inlet Temperature: ..... 35.0°C DB
   Piping Length:7.5 meters
   Piping Lift:0 meter
   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 meters
   Piping Lift:0 meter
2. The sound pressure level is based on following conditions. 1.4 meter Beneath the unit.
   With Discharge Duct (2.0 meter) and Return Duct (1.0 meter).
   Voltage of the power source for the indoor fan motor is 220V.
   (In case of the power source of 240V, the sound pressure level increases by about 1~2dB(A).)
   The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.
3. The data for external pressure (*3) indicates "Standard Pressure Setting values when a filter is not used.



COMPACT

(AC) [RPIZ-HNATN1Q]

Model			RPIZ-0.8HNATN1Q	RPIZ-1.0HNATN1Q	RPIZ-1.3HNATN1Q	RPIZ-1.5HNATN1Q	RPIZ-1.8HNATN1Q	RPIZ-2.0HNATN1Q	RPIZ-2.3HNATN1Q	RPIZ-2.5HNATN1Q
Indoor Unit Power Supply			AC 1Ø, [220-240V/50Hz]							
Nominal Capacity	Cooling	kW	2.2	2.8	3.6	4.0	5.0	5.6	6.3	7.1
	Heating	kW	2.5	3.2	4.0	4.5	5.6	6.3	7.1	8.0
Sound Pressure Level	(Hi/Me/Lo)	dB(A)	30/23/20	30/23/20	34/25/22	32.5/26/23	34/26/25	34/26/25	37/29/27	37/29/27
Outer Dimension	H×W×D	mm	192×700×447	192×700×447	192×700×447	192×910×447	192×1,180×447	192×1,180×447	192×1,180×447	192×1,180×447
Net Weight		kg	17	17	17	21	27	27	28	28
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi/Me/Lo)	m^3/min	9.5/6.5/5.5	9.5/6.5/5.5	9.5/6.5/5.5	10/7/6	15/10/9	15/10/9	17/10/9	17/10/9
External Static Pressure (*3)		Pa	10(30)	10(30)	10(30)	10(30)	10(30)	10(30)	10(30)	10(30)
Connections			Flare-Nut Connection (with Flare Nuts)							
Refrigerant Piping Diameter	Liquid Line	mm	Ø6.35	Ø6.35	Ø6.35	Ø6.35	Ø6.35	Ø6.35	Ø9.52	Ø9.52
	Gas Line	mm	Ø12.70	Ø12.70	Ø12.70	Ø12.70	Ø15.88	Ø15.88	Ø15.88	Ø15.88
Condensate Drain			VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25
Approximate Packing Volume		m^3	0.142	0.142	0.142	0.15	0.18	0.18	0.18	0.18

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

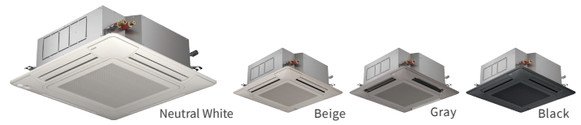
Air filter	0.8-1.5 (HP)	KW-PP5Q
	1.8-2.5 (HP)	KW-PP6Q
AQtiv-Ion Kit		JK-LZAQ

Notes:

1. The cooling capacities above show the maximum capacities when the outdoor and indoor temperature are under the following conditions.
   Cooling Operation Conditions
   Indoor Air Inlet Temperature: ..... 27.0°C DB / 19.0°C WB
   Outdoor Air Inlet Temperature: .. 35.0°C DB
   Piping Length:7.5 meters
   Piping Lift:0 meter
   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 meters
   Piping Lift:0 meter
2. The sound pressure level is based on following conditions. 1.4 meter Beneath the unit.
   With Discharge Duct (2.0 meter) and Return Duct (1.0 meter).
   Voltage of the power source for the indoor fan motor is 220V.
   (In case of the power source of 240V, the sound pressure level increases by about 1~2dB(A).)
   The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.
3. The data for external pressure (*3) indicates "Standard Pressure Setting values when a filter is not used.

4-WAY CASSETTE

(DC) [RCI-FSR(1)]



Model			RCI-1.0 FSR(1)	RCI-1.5 FSR(1)	RCI-2.0 FSR(1)	RCI-2.5 FSR(1)	RCI-3.0 FSR(1)	RCI-4.0 FSR(1)	RCI-5.0 FSR(1)	RCI-6.0FSR(1)
Indoor Unit Power Supply			AC 1Ø, [220-240V/50Hz] [220V/60Hz]							
Nominal Capacity	Cooling	kW	2.8	4.0	5.6	7.1	8.0	11.2	14.0	16.0
	Heating	kW	3.2	4.8	6.3	8.5	9.0	12.5	16.0	18.0
Sound Pressure Level	(Hi2/Hi/Me/Lo)	dB(A)	33/30/28/27	35/31/30/27	37/32/30/27	42/36/32/28		48/43/39/33	48/45/40/35	48/46/41/37
Outer Dimension	(H×W×D)	mm	238x840x840						288x840x840	
Net Weight		kg	20	21		22	26		26	
Refrigerant			R410A							
Indoor Fan Air Flow Rate	(Hi2/Hi/Me/Lo)	m^3/min	15/13/11/9	21/17/14/11		27/23/18/14		37/31/24/20	37/33/26/21	37/35/28/22
Connections			Flare-Nut Connection (with flare Nuts)							
Refrigerant Piping Diameter	Liquid Line	mm	Ø6.35					Ø9.52		
	Gas Line	mm	Ø12.7					Ø15.88		
Condensate Drain			VP25							
Approximate Packing Volume		m^3	0.26					0.31		

Decoration panel	Twin-Sense panel	P-AP160NAE2
	Standard (without sensor)	P-N23NA2
Receiver kit	Advanced	PC-ALH3
Condensate Drain Pump Kit		- (Standard)
Duct Adapter		PD-75A
Fresh Air Intake Kit		OACI-160K2

3-Way Outlet Parts Set		PI-160LS2
T-Pipe Connection Kit		TKCI-160K
Deodorant Air Filter	1.0-2.5 (HP)	F-71L-D1
	3.0-6.0 (HP)	F-160L-D1
Filter Box		B-160H2
ViroSense S filter		- (Standard)

Notes:

1. The cooling and heating capacities above show the maximum capacities when the outdoor and indoor temperature are under the following conditions.
   Cooling Operation Conditions
   Indoor Air Inlet Temperature:..... 27.0°C DB / 19.0°C WB (66.2°F WB)
   Outdoor Air Inlet Temperature: ..... 35.0°C DB (95.0°F DB)
   Piping Length:7.5 meters
   Piping Lift:0 meter
   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 meters
   Piping Lift:0 meter
2. The sound pressure level is based on following conditions. 1.5 meter Beneath the unit.
   The data in the table above was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

4-WAY CASSETTE

(DC) [RCI-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 1Ø, [220-240V/50Hz] [220V/60Hz]								
Nominal Capacity	Cooling	kW	2.8	4.0	5.6	6.3	7.1	8.0	11.2	14.0	16.0
	Heating	kW	3.2	4.8	6.3	7.1	8.5	9.0	12.5	16.0	18.0
Sound Pressure Level	(Hi2/Hi/Me/Lo)	dB(A)	33/30/28/27	35/31/30/27	37/32/30/27		42/36/32/28		48/43/39/33	48/45/40/35	48/46/41/37
Outer Dimension	(H×W×D)	mm	238×840×840						288×840×840		
Net Weight		kg	20	21			22		26		
Refrigerant			R410A								
Indoor Fan Air Flow Rate	(Hi2/Hi/Me/Lo)	m^3/min	15/13/11/9	21/17/14/11			27/23/18/14		37/31/24/20	37/33/26/21	37/35/28/22
Connections			Flare-Nut Connection (with flare Nuts)								
Refrigerant Piping Diameter	Liquid Line	mm	Ø6.35						Ø9.52		
	Gas Line	mm	Ø12.7						Ø15.88		
Condensate Drain			VP25								
Approximate Packing Volume		m^3	0.21						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)

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

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

Notes:

1. The cooling and heating capacities above show the maximum capacities when the outdoor and indoor temperature are under the following conditions.
2. The sound pressure level is based on following conditions. 1.5 meter Beneath the unit.
   The data in the table above was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.
3. Decoration panel is included.

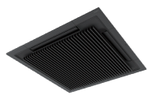
Specifications & accessories

SILENT-ICONIC™ 4-WAY CASSETTE DESIGN PANEL

FOR 4-WAY CASSETTE [RCI-FSR(1)]

Model	P-GP160NAP	P-GP160NAPU	P-GP160KAP
Standard/option	Design Panel Standard	Design Panel with an Elevation Grille	Design Panel Standard
Color	Natural White	Natural White	Black









NEW

4-WAY CASSETTE COMPACT

(DC) [RCIM-HBUSQ]

Model		Unit	RCIM-0.5HBUSQ	RCIM-0.8HBUSQ	RCIM-1.0HBUSQ	RCIM-1.3HBUSQ	RCIM-1.5HNBUSQ	RCIM-1.8HNBUSQ	RCIM-2.0HNBUSQ
Power Supply		V/Ph/Hz	AC 1Ø, 220V~240V/50Hz/60Hz				AC 1Ø, 220V~240V/50Hz/60Hz		
Capacity	Cooling	kW	1.5	2,2	2.8	3.6	4.5	5.0	5.6
		Btu/h	5100	7500	9600	12300	15300	17000	19100
	Heating	kW	2.0	2,5	3.3	4.2	5.0	5.6	6.3
		Btu/h	6800	8500	11200	14300	17000	19000	21500
Power Input	Cooling	W	14	14	14	16	22	30	40
	Heating	W	14	14	14	16	22	30	40
Sound Pressure		dB(A)	26/28/29/30	26/28/29/30	26/28/30/32	26/29/32/34	28/31/36/38	31/36/39/42	34/38/42/45
Air Flow Rate		m3/min	7.2/6.5/6.2/5.6	7.2/6.5/6.2/5.6	7.8/7.2/6.5/5.8	7.8/7.2/6.5/5.8	9.3/8.7/7.1/6.7	11.0/9.5/8.7/7.1	12.5/10.8/9.3/8.0
Piping	Connection Type	-	Flare-nut Connection(with Flare Nuts)				Flare-nut Connection(with Flare Nuts)		
	Liquid	mm	Ø6.35	Ø6.35	Ø6.35	Ø6.35	Ø6.35	Ø6.35	Ø6.35
		Btu/h	(1/4)	(1/4)	(1/4)	(1/4)	(1/4)	(1/4)	(1/4)
	Gas	mm	Ø12.7	Ø12.7	Ø12.7	Ø12.7	Ø12.7	Ø12.7	Ø12.7
		Btu/h	(1/2)	(1/2)	(1/2)	(1/2)	(1/2)	(1/2)	(1/2)
	Condensate Drain	-	VP25(Outer Diameter Ø32mm)				VP25(Outer Diameter Ø32mm)		
Weight	Net Weight	kg	14,5	14,5	14,8	14,8	15,8	15,8	15,8
	Gross Weight	kg	17,3	17,3	17,6	17,6	18,6	18,6	18,6
Dimensions	"External Dimension (H × W × D)"	mm	215	215	215	215	215	215	215
			570	570	570	570	570	570	570
			570	570	570	570	570	570	570
	Packaging Dimensions (H × W × D)	mm	292	292	292	292	292	292	292
			730	730	730	730	730	730	730
			668	668	668	668	668	668	668
Decoration Panel	Model		PHKM50PAQ1				PHKM50PAQ1		
	Color		Neutral White				Neutral White		
	Body Dimensions (H × W × D)	mm	37 × 620 × 620				37 × 620 × 620		
	Packaging Dimensions (H × W × D)	mm	115 × 690 × 680				115 × 690 × 680		
	Net Weight	kg	2.7	2.7	2.7	2.7	2.7	2.7	2.7
	Gross Weight	kg	4.0	4.0	4.0	4.0	4.0	4.0	4.0

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 meters
Piping Lift:0 meter

Heating Operation Conditions
Indoor Air Inlet Temperature:..... 20.0°C DB
Outdoor Air Inlet Temperature: ..... 7.0°C DB
6.0°C WB

The sound pressure level is based on following conditions: 1.5m beneath the unit.
The above data was measured in an anechoic chamber so that reflected sound should be taken in consideration in the field.

1-WAY CASSETTE

(DC) [RCIS-FSKDNQ]



Model			RCIS-1.0FSKDNQ	RCIS-1.3FSKDNQ	RCIS-1.6FSKDNQ	RCIS-2.0FSKDNQ	RCIS-2.5FSKDNQ
Indoor Unit Power Supply			AC 1Ø, [220-240V/50Hz] [230V/50Hz] [220V/60Hz]				
Nominal Capacity	Cooling	kW	2.8	3.6	4.5	5.6	7.1
	Heating	kW	3.2	4.0	5.0	6.3	8.0
Sound Pressure Level	(Hi2/Hi/Me/Lo)	dB(A)	32/31/30/29/28/27	37/35/34/32/30/28	41/37/34/33/31/30	40/38/35/33/32/31	46/42/40/37/34/32
Outer Dimension	(H×W×D)	mm	192x910x470	192x910x470	192x910x470	192x1180x470	192x1180x470
Net Weight		kg	19	20	20	24	24
Refrigerant			R410A	R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi2/Hi/Me/Lo)	m^3/min	4.0/3.7/3.4/3.1	5.0/4.4/4.1/3.7	6.0/5.0/4.1/3.8	7.3/5.9/5.3/4.9	9.4/7.6/6.7/5.9
Connections			Flare-Nut Connection (with Flare Nuts)				
Refrigerant Piping Diameter	Liquid Line	mm	Ø6.35	Ø6.35	Ø6.35	Ø6.35	Ø9.52
	Gas Line	mm	Ø12.7	Ø12.7	Ø12.7	Ø15.88	Ø15.88
Condensate Drain			VP25	VP25	VP25	VP25	VP25
Approximate Packing Volume		m^3	0.19	0.19	0.19	0.24	0.24

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

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 meters
Piping Lift:0 meter

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 meters
Piping Lift:0 meter

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

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

Specifications & accessories

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 1Ø,220~240V/50Hz, ,220V/60Hz							
Nominal Capacity	Cooling	kW	2.2	2.8	3.6	4.0	5.0	5.6	6.3	7.1
	Heating	kW	2.5	3.3	4.0	4.5	5.6	6.3	7.1	8.0
Sound Pressure Level	(Hi/Me/Lo)	dB(A)	36/35/33/ 32/30/28	36/35/33/ 32/30/28	38/35/33/ 32/30/28	38/37/36/ 32/31/29	44/42/41/ 38/31/29	40/38/36/ 35/33/31	41/40/38/ 35/33/31	45/42/41/ 38/35/31
Color			White							
Outer Dimension	(H×W×D)	mm	270×815×203	270×815×203	270×815×203	315×915×230	315×915×230	315×1085×230	315×1085×230	315×1085×230
Net Weight		kg	9.0	9.0	9.0	12.5	12.5	14.0	14.0	14.0
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	
Indoor Fan Air Flow Rate	(Hi/Me/Lo)	m^3/min	9.8/9.2/8.7/ 8.2/7.5/7.0	9.8/9.2/8.7/ 8.2/7.5/7.0	10.3/9.2/8.7/ 8.2/7.5/7.0	11.5/11.0/10.3/ 9.0/8.7/8.0	14.3/13.5/12.8/ 11.5/9.0/8.0	16.2/15.0/14.2/ 13.3/12.2/11.5	17.0/16.2/15.0/ 13.3/12.2/11.5	20.0/18.0/17.0/ 15.0/13.3/11.7
Connections			Flare-Nut Connection (with Flare Nuts)							
Refrigerant Piping Diameter	Liquid Line	mm	Ø6.35	Ø6.35	Ø6.35	Ø6.35	Ø6.35	Ø9.53	Ø9.53	Ø9.53
	Gas Line	mm	Ø9.53	Ø9.53	Ø9.53	Ø12.7	Ø12.7	Ø15.88	Ø15.88	Ø15.88
Condensate Drain			VP16	VP16	VP16	VP16	VP16	VP16	VP16	VP16
Approximate Packing Volume		m^3	0.11	0.11	0.11	0.15	0.15	0.17	0.17	0.17

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

Notes:

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

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

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

2. The sound pressure level is based on following conditions.
1.0 meter Beneath the unit.
1.0 meter 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.

Solutions

Other indoor units

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 1Ø, [220-240V/50Hz] [220V/60Hz]							
Nominal Capacity	Cooling	kW	5.0	5.6	6.3	7.1	8.4	9.0	11.2	14.2
	Heating	kW	5.6	6.5	7.5	8.5	9.6	10.0	13.0	16.3
Sound Pressure Level	Ceiling Mode	dB(A)	39/35/30	39/35/30	45/41/37	45/41/37	43/39/34	45/40/36	51/46/40	50/46/42
	Floor Mode	dB(A)	43/38/35	43/38/35	48/44/40	48/44/40	46/41/37	48/43/39	54/49/43	55/50/46
Outer Dimension	(H×W×D)	mm	230×990×680	230×990×680	230×990×680	230×990×680	230×1,285×680	230×1,285×680	230×1,285×680	230×1,580×680
Net Weight		kg	31	31	32	32	39	40	41	47
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi/Me/Lo)	m^3/h	780/660/540	780/660/540	966/840/678	966/840/678	1,092/912/732	1,164/978/798	1,488/1,230/978	1,980/1,680/1,380
Connections			Flare-Nut Connection (with Flare Nuts)							
Refrigerant Piping Diameter	Liquid Line	mm	Ø6.35	Ø6.35	Ø9.52	Ø9.52	Ø9.52	Ø9.52	Ø9.52	Ø9.52
	Gas Line	mm	Ø15.88	Ø15.88	Ø15.88	Ø15.88	Ø15.88	Ø15.88	Ø15.88	Ø15.88
Condensate Drain			VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25
Approximate Packing Volume		m^3	0.31	0.31	0.31	0.31	0.40	0.40	0.40	0.48

Receiver kit	Basic	PC-RLH11
	Advanced	PC-ALHZ1

Notes:

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

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

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

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



FLOOR CONCEALED

(AC) [RPFI-FSNQ]

Model			RPFI-1.0FSNQ	RPFI-1.5FSNQ	RPFI-2.0FSNQ	RPFI-2.5FSNQ
Indoor Unit Power Supply			AC 1Ø, [220-240V/50Hz]			
Nominal Capacity	Cooling	kW	2.8	4.3	5.6	7.1
	Heating	kW	3.3	4.9	6.5	8.5
Sound Pressure Level	(Hi/Me/Lo)	dB(A)	37/34/31	40/38/35	42/38/36	45/43/40
Outer Dimension	(H×W×D)	mm	620×900×202	620×900×202	620×1,170×202	620×1,170×202
Net Weight		kg	25	26	34	34
Refrigerant			R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi/Me/Lo)	m^3/min	8.5/7/6	12/8/7	16/12.5/10.5	16/14/11
Connections			Flare-Nut Connection (with Flare Nuts)			
Refrigerant Piping	Liquid Line	mm	Ø6.35	Ø6.35	Ø6.35	Ø9.52
	Gas Line	mm	Ø12.70	Ø12.70	Ø15.88	Ø15.88
Condensate Drain			VP25	VP25	VP25	VP25
Packaging Volume		m^3	0.19	0.19	0.23	0.23

Receiver kit	Basic	PC-RLH11
	Advanced	PC-ALHZ1

Notes:

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

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

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

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



VENTILATION

77 OUR VENTILATION LINE-UP

78 VENTILATION SOLUTIONS

80 DX-KIT



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 bacterias build-up, impacting on the wellbeing, comfort and productivity of occupants. Make these spaces as healthy and comfortable as possible by connecting our ventilation solutions into your Hitachi VRF systems.

Ventilation line-up

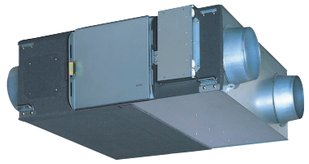
Our line-up fulfils the ventilation requirements
of the desired space by drawing in clean air from
the outside and replenishing indoor spaces.
It features solutions that suit every type of building; you can use the ventilation technology
as it is or it can be incorporated into a Hitachi
indoor unit via 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



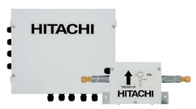
- Creates a healthy indoor environment thanks to the fresh air and ventilation functions.
- Every unit is equipped with a remote controller for the total heat exchanger as a standard part.

FROM 150 TO 6,000m^3/h

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

EXTRA AIR-RENEWAL SOLUTION OFFERINGS

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



DX-KIT

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

FRESH-AIR INTAKE PORT

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

Ventilation solutions



ALL FRESH AIR UNIT

Model			RPI-5.0KFNQ		RPI-8.0KFNQ		RPI-10.0KFNQ		RPI-12.0KFNQ	
Power Supply			AC 1Ø 220-240V/ 50Hz	AC 1Ø 220V/ 60Hz	AC 1Ø 220-240V/ 50Hz	AC 1Ø 220V/ 60Hz	AC 1Ø 220-240V/ 50Hz	AC 1Ø 220V/ 60Hz	AC 3Ø 380-415V/ 50Hz	AC 3Ø 380V/ 60Hz
Connectable Outdoor Unit			SET FREE Σ, Heat Pump Type, HNCQ Series						RAS-120HNCEL(/R)W	
Cooling	Capacity	kW	14.0	14.0	22.4	22.4	28.0	28.0	33.5	33.5
	Power	kW	0.30	0.35	0.48	0.55	0.50	0.58	0.68	0.78
	Nominal Current	A	1.4	1.61	2.2	2.53	2.3	2.65	1.43	1.64
Heating	Capacity	kW	13.7	13.7	21.9	21.9	24.5	24.5	26.8	26.8
	Power	kW	0.30	0.35	0.48	0.55	0.50	0.58	0.68	0.78
	Nominal Current	A	1.4	1.61	2.2	2.53	2.3	2.65	1.43	1.64
Sound Pressure Level (overall a scale)		dB(A)	42	42	44	44	47	47	56	56
Dimensions H×W×D		mm	370×1320×800		486×1270×1069		486×1270×1069		486×1270×1069	
Net Weight		kg	63	63	110	110	110	110	110	110
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Air Flow Rate		m^3/ min	18	18	28	28	35	35	50	50
External Pressure		Pa	200	200	220	220	220	220	220	220
Piping	Liquid	mm	Ø9.53	Ø9.53	Ø9.53	Ø9.53	Ø9.53	Ø9.53	Ø12.7	Ø12.7
	Gas	mm	Ø15.88	Ø15.88	Ø19.05	Ø19.05	Ø22.2	Ø22.2	Ø25.4	Ø25.4
	Condensate Drain		VP25, Outer Diameter: Ø32mm							
Temperature range of fresh air drawn			Cooling: 20.0°C~43.0°C, Heating: -7.0°C~15.0°C							

Model			RPI-16.0KFNQL		RPI-16.0KFNQH		RPI-20.0KFNQL		RPI-20.0KFNQH		RPI-20.0KFNQLF		RPI-20.0KFNQHF	
Power Supply			AC 3Ø 380-415V/ 50Hz	AC 3Ø 380V/ 60Hz	AC 3Ø 380-415V/ 50Hz	AC 3Ø 380V/ 60Hz	AC 3Ø 380-415V/ 50Hz	AC 3Ø 380V/ 60Hz	AC 3Ø 380-415V/ 50Hz	AC 3Ø 380V/ 60Hz	AC 3Ø 380-415V/ 50Hz	AC 3Ø 380V/ 60Hz	AC 3Ø 380-415V/ 50Hz	AC 3Ø 380V/ 60Hz
Connectable Outdoor Unit			RAS-160HNCEL(/R)W				RAS-200HNCEL(R)WS, RAS-200HNCEL(R)WP, RAS-200HNCEL(R)WS							
Cooling	Capacity	kW	45.0	45.0	45.0	45.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
	Power	kW	0.72	0.83	1.06	1.22	1.06	1.22	1.39	1.6	1.39	1.60	1.72	1.98
	Nominal Current	A	1.8	2.07	2.2	2.53	2.22	2.55	3.14	3.61	3.0	3.45	3.9	4.45
Heating	Capacity	kW	36.0	36.0	36.0	36.0	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
	Power	kW	0.72	0.83	1.06	1.22	1.06	1.22	1.39	1.6	1.39	1.60	1.72	1.98
	Nominal Current	A	1.8	2.07	2.2	2.53	2.22	2.55	3.14	3.61	3.0	3.45	3.9	4.45
Sound Pressure Level (overall a scale)		dB(A)	58	58	62	62	61	61	65	65	63	63	67	67
Dimensions H×W×D		mm	635×1950×805		635×1950×805		735×1950×805		735×1950×805		735×1950×805		735×1950×805	
Net Weight		kg	196	196	196	196	222	222	222	222	222	222	222	222
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Air Flow Rate		m^3/min	67	67	67	67	83	83	83	83	100	100	100	100
External Pressure		Pa	200	200	300	300	200	200	300	300	200	200	300	300
Piping	Liquid	mm	Ø12.7	Ø12.7	Ø12.7	Ø12.7	Ø15.88	Ø15.88	Ø15.88	Ø15.88	Ø15.88	Ø15.88	Ø15.88	Ø15.88
	Gas	mm	Ø25.4	Ø25.4	Ø25.4	Ø25.4	Ø28.6	Ø28.6	Ø28.6	Ø28.6	Ø28.6	Ø28.6	Ø28.6	Ø28.6
	Condensate Drain		RC1 (Internal Screw)											
Temperature range of fresh air drawn			Cooling: 20.0°C~43.0°C, Heating: -7.0°C~15.0°C											

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

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

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

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

Ventilation solution

TOTAL HEAT EXCHANGER



Model				KPI-25H-A-GQ1	KPI-50H-A-GQ1	KPI-100H-A-GQ1	KPI-200H-E-GQ1	KPI-500H-E-GQ1
Power Supply				AC 1Ø,[220V/50Hz]			AC 3Ø,[380V/50Hz]	
Enthalpy Exchange Efficiency	Cooling	High	%	63	63	57	56	55
		Medium		63	63	57	-	-
		Low		70	65	59	-	-
	Heating	High		70	69	66	65	60
		Medium		70	69	66	-	-
		Low		75	71	68	-	-
Heat Exchange System			-	Air-to-Air cross flow heat recovery(sensibleheat+potential heat)				
Heat Exchange Part			-	Ventilation high efficiency all-in-one heat exchange core				
Operation Current		High	A	0.75	1.42	4.88	2.59	8.91
		Medium		0.48	0.95	4.30	-	-
		Low		0.35	0.67	3.47	-	-
Input Power		High	W	162	313	1,020	1,550	4,700
		Medium		106	204	900	-	-
		Low		76	140	726	-	-
Fan	Type		-	Multi-blade fan				
	Air Flow	High	m^3/h	250	500	1,000	2,000	5,000
		Medium		170	300	750	-	-
		Low		120	180	500	-	-
	Fresh Air Static Pressure	High	Pa	80	80	165	160	240
		Medium		50	70	120	-	-
		Low		30	40	60	-	-
	Exhaust Air Static Pressure	High	Pa	80	80	165	160	240
		Medium		50	70	120	-	-
		Low		30	40	60	-	-
	Fresh Air Available Pressure	High	Pa	80	80	165	160	308
		Medium		50	70	120	-	-
		Low		30	40	60	-	-
	Exhaust Air Available Pressure	High	Pa	80	80	165	160	308
		Medium		50	70	120	-	-
		Low		30	40	60	-	-
Noise Value (Anechoic Chamber)		High	dB(A)	32.5	38.5	43.0	47.0	56.0
		Medium		28.5	33.5	41.0	-	-
		Low		23.5	26.5	38.0	-	-
Machine Size(H×W×D)			mm	962×220×735	1,112×270×735	1,115×390×1,135	1,550×540×1,400	1,625×1,050×1,330
Package Size(H×W×D)			mm	1,070×330×1,060	1,220×380×1,060	520×1,330×1,210	690×1,710×1,545	1,195×1,800×1,490
Flange Dimension	Fresh(Exhaust)Air Inlet		Mm	Ø144	Ø194	Ø242	320×300	370×330
	Fresh(Exhaust)Air Outlet						320×300	320×300
Net Weight			Kg	42	52	79	172	321
Gross Weight			Kg	50	61	92	177	337
Environmental Conditions Of Use			-	Temperature range:-10.0°C~45°C(DB),85%RH or lower				

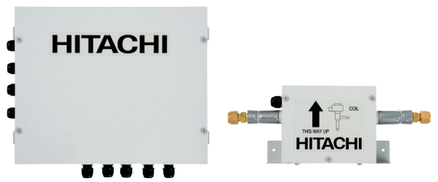
Note:
Please confirm the model name for "wires remote controller" compatible with Total Heat Exchanger to your local distributor.



DX-KIT

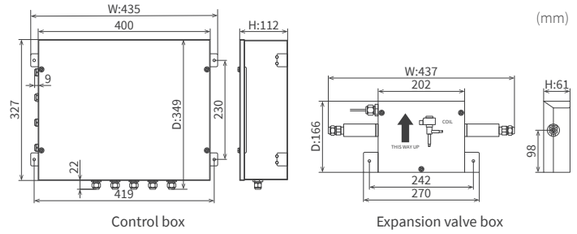
Integrate Hitachi VRF into your pre-existing Air Handling Units (AHU).





Dimensions

(mm)



Control box

Expansion valve box

Capacity (HP)			2	4	6	8/10	12~20	22~30
Model			**DXF-2.0A1**	**DXF-4.0A1**	**DXF-6.0A1**	**DXF-10.0A1**	**DXF-20.0A1**	**DXF-30.0A1**
Control Box (C Box)	Power Supply		AC1Ø, [220-240V /50Hz] [220V 60Hz]					
	Height	mm	112	112	112	112	112	112
	Width	mm	435	435	435	435	435	435
	Depth	mm	349	349	349	349	349	349
	Weight	kg	5.2	5.2	5.2	5.2	5.2	5.2
	Material		Steel Plate + White Grey Coating					
Expansion Valve Box (EXV Box)	**Height**	mm	61	61	61	61	61	61
	Width	mm	437	437	437	437	437	437
	Depth	mm	166	166	166	166	166	166
	Weight	kg	1.7	1.7	1.7	1.7	1.7	1.7
	Quantity		1	1	1	1	1	2
	Material		Steel Plate + White Grey Coating					
	Liquid Pipe Diameter		Ø6.35	Ø9.52	Ø9.52	Ø9.52	Ø12.7	Ø12.7
AHU Suction Temperature Range	Cooling		21.0°C to 32.0°C (DB) / 15.0°C to 23.0°C (WB)					
	Heating		15.0°C to 27.0°C (DB)					
Connection Ratio in different configurations → Total AHU or AHU & IDU Connection Ratio against ODU capacity = X (In case of "Inlet Air Temperature Control")			• 1 ODU to 1 AHU : 50% < X ≤ 100% • 1 ODU to 1 AHU (Separate Heat Exchanger Type) : 50% < X ≤ 100% • 1 ODU to Multiple AHUs : 50% < X ≤ 100% • 1 ODU to AHU & IDUs : (1) 50% < X ≤ 100% → Total AHU capacity: No limitation / Each AHU capacity: No limitation (2) 100% < X ≤ 110% → Total AHU capacity: less than 30% of total capacity / Each AHU capacity: between 2-6HP class					
Maximum Piping Length	**Total**	m	• 1,000 (When the number of connected [AHU & IDU] in the system is the same or less than the recommended.) • 300 (When the number of connected [AHU & IDU] in the system is more than the recommended.)					
	Between AHU Heat Exchanger and EXV Box	m	5	5	5	5	5	5
Maximum Level Difference	**Between ODU and [AHU/IDU]**	m	• 50 (When ODU is above [AHU & IDU & DX-Kit].) • 40 (When ODU is below [AHU & IDU & DX-Kit].)					
	Between AHU Heat Exchanger and EXV Box	m	2	2	2	2	2	2
Maximum Length	**Control wiring between AHU Heat Exchanger and EXV Box**	m	10	10	10	10	10	10
	Thermistor to AHU Heat Exchanger from C Box	m	10	10	10	10	10	10
Temperature Control Modes (*1)			• Inlet Air Temperature Control • Outlet Air Temperature Control • Duty Control					

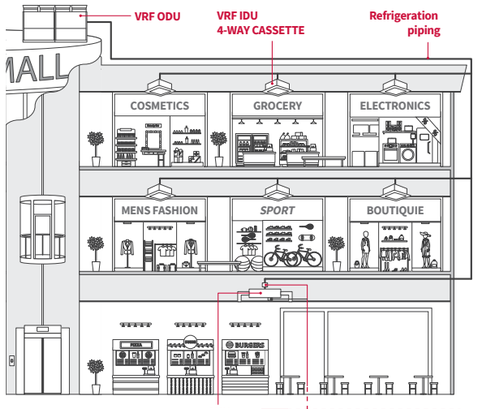
(*1) [Outlet Air Temperature Control] & [Duty Control] are available only in case of connections "1 ODU to 1 AHU" & "1 ODU to 1 AHU(Separate Heat Exchanger Type)".

DX-KIT: GREAT FLEXIBILITY FOR SIMPLIFIED HVAC UPGRADE

① Wide range of capacity:

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

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



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

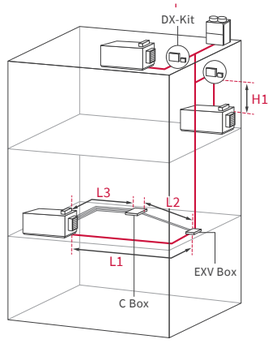
② Flexible installation:

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

DX-Kit facilitates system design!

Both outdoor & indoor installations available!

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

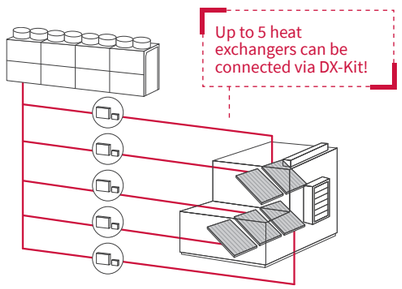


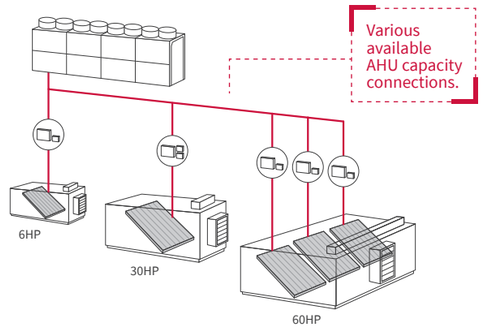
③ 4 examples of configuration:

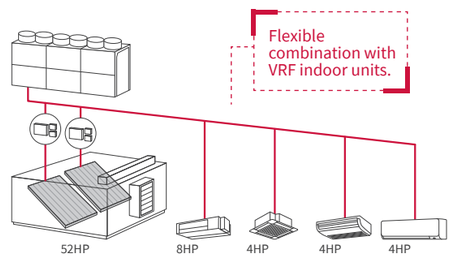
→ 1 VRF outdoor unit + 1 AHU
→ 1 VRF outdoor unit + 1 AHU (external heat exchanger)
→ 1 VRF Outdoor unit + multiple AHUs
→ 1 VRF Outdoor unit + VRF indoor units + AHUs

[Example]

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











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

84 INDIVIDUAL CONTROLLERS

85 Line-up overview
86 airCloud Tap
88 Advanced color wired remote controller
90 Wired remote controller
91 Advanced wireless remote controller
91 Wireless remote controller

92 ACCESSORIES

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





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

(PC-ARFG2-E) (PC-ARFG2-EB)

NEW
ECO COMPACT CONTROLLER (PC-ARH1-E)



Functions :

- Master and/or slave control of 1 to 16 indoor units,
- Simplified access limited to essential functions,
- Configuration of optional settings,
- Setpoint adjustable to +/-0.5°C,
- Frost protection function.

Ideal for hotels, shops, when simplicity is required.

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-LH8QE)



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

From basic to advanced controls

			ADVANCED-COLOR CONTROLLER NEW	ECO-COMPACT CONTROLLER NEW	WIRED REMOTE CONTROLLER	ADVANCED WIRELESS REMOTE CONTROLLER	WIRELESS REMOTE CONTROLLER
							
			PC-ARFG2-E / PC-ARFG2-EB	PC-ARH1E	HCWA10NEGQ	PC-AWR	PC-LH8QE
Connection Capacity		No of RC-Group	1	1	1	-	-
		No of indoor units	16	16	16	-	-
Product Size	Width*Height*Depth (mm)		120×120×16.5 (D: thinnest part)	120 x 70 x 15	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)	-	-	-	-
Essential Operations	Run / Stop		●	●	●	●	●
	Operation Mode		●	●	●	●	●
	Auto Mode Setting		●	●	●	●	●
	Temperature Setting		●	●	●	●	●
	Fan Speed		●	●	●	●	●
	Louver Direction		●	●	●	●	●
Advanced Feature Settings	Simple Timer		●	-	● (On/Off Timer)	● (On/Off Timer)	● (On/Off Timer)
	Weekly Operation Schedule		●	-	●	-	-
	Power Savings Setting		●	-	-	-	-
	Night Quiet Operation		●	-	-	-	-
	Power Savings/Night Quiet Schedule		●	-	-	-	-
	Power Consumption Display		●	-	-	-	-
	AutoBoost		●	-	-	-	-
	Comfort Setting		●	-	-	-	-
	Sleep Mode		-	-	-	-	-
	Motion Sensor Setting (1)		●	-	-	-	-
	Setback Setting		●	●	-	-	-
	Elevating Grille		●	-	-	-	-
	Filter Reminder Time Reset		●	-	●	●	●
	Filter Auto-Cleaning (1)		●	-	-	-	-
	Individual Louver Setting		●	-	●	-	-
	Louver Open/Close		●	●	-	-	-
	Ventilation		●	-	-	-	-
	Total Heat Exchanger SET		●	-	-	-	-
Display Settings	Adjusting Date/Time		●	-	●	-	-
	Daylight Saving Time		●	-	-	-	-
	Run Indicator Brightness Adjustment		●	-	-	-	-
	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
	Keypad Touch Sound		●	●	● (Cannot turn off)	-	-
Service Functions	Lock Function		●	-	● (Lock whole keypad)	-	-
	Password Setting		●	-	-	-	-
	Hotel Mode		●	-	-	-	-
	Power Saving Details Setting		●	●	-	-	-
	Temperature Range Restriction		●	●	● (in Function Selection)	-	-
	Dual Setpoint		●	-	-	-	-
	Main/Sub Display		●	-	-	-	-
	Set Room Name		●	-	-	-	-
	Set Contact Information		●	-	-	-	-
	NFC Setting		●	-	-	-	-
	Simple Maintenance Check Menu		●	-	-	-	-
Installation Functions	Test Run		●	●	●	-	-
	Function Selection		●	●	●	-	-
	Thermistor Selection		●	●	● (in Function Selection)	-	-
	Input/Output		●	-	●	-	-
	Thermistor Calibration in Controller		●	● (in function selection)	-	-	-
	Fan Speed At Thermo-Off		●	x	● (in Function Selection)	-	-
	Indoor Unit Address Change		●	x	●	-	-
	Address Check Operation		●	X	-	-	-
	Address Initialization		●	X	-	-	-
	Setting Initialization		●	x	-	-	-
	Main/Sub Controller Setting		●	x	●	-	-
	Priority Setting		●	● (IN FUNCTION SELECTION)	●	-	-
	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 avaible 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.

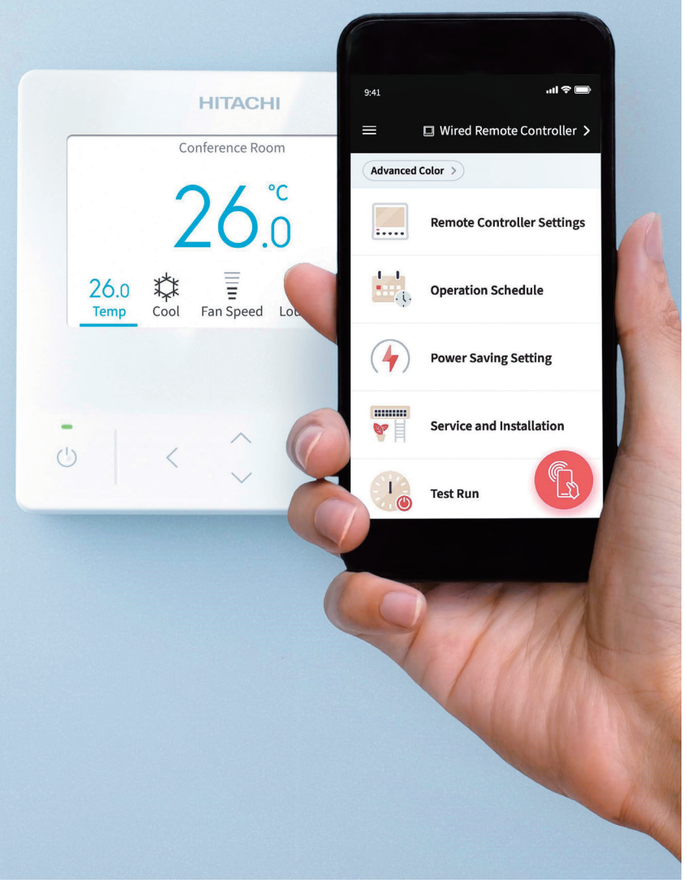
AIRCLOUD TAP

HITACHI

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

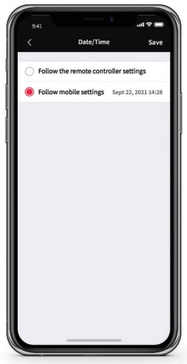
How does airCloud Tap works?



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

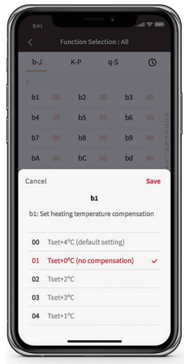
What you can do with airCloud Tap | some highlights:

Installation & Commissioning



Date/time setting

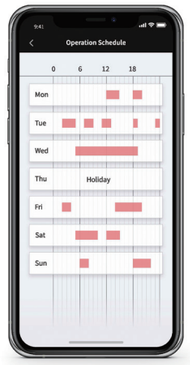
import the date & time from your phone into the controller



Function selection

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

Operation



Scheduling

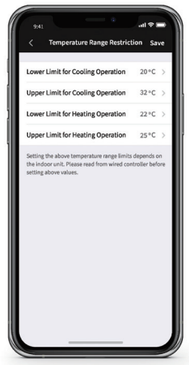
Save preferred AC schedule and save to copy to other controllers of the same building

Maintenance & Service



Troubleshooting

Visualize all the service check data on your phone



Temperature range restrictions

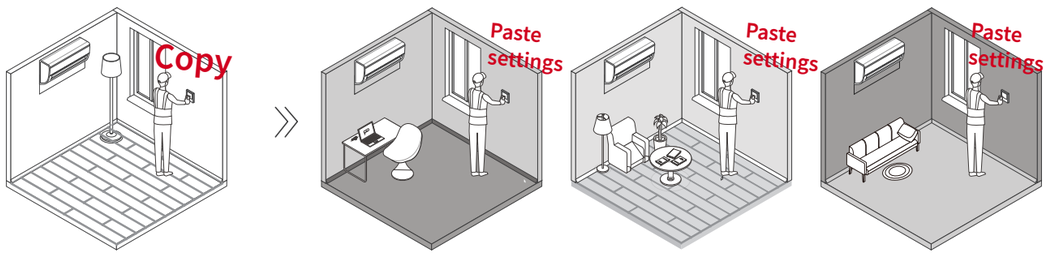
Apply min/max set temperature to prevent excessive cooling/heating

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.



NEW

ADVANCED COLOR WIRED REMOTE CONTROLLER (PC-ARFG2-E)

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)

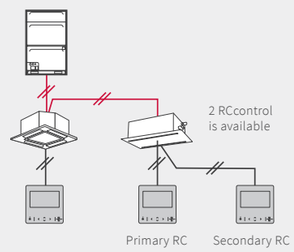
Capacity

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

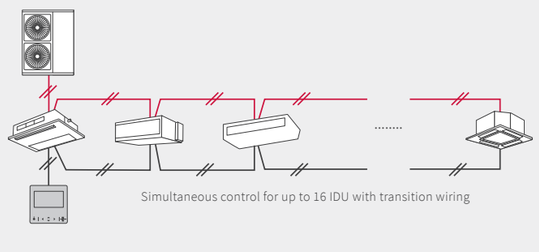
* H is the height of the unit from the front, without the protrusion at the bottom.

System configuration example

Possibility of 2 Wired Controller Connection

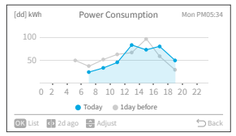


Up to 16 IDU connection

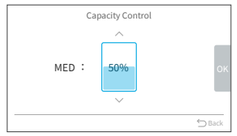


Energy optimization

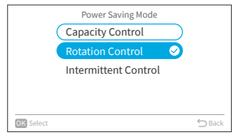
Power-saving features enable VRF system operators to optimize energy usage



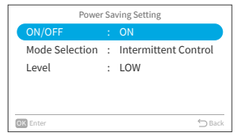
Energy consumption visualization



Capacity – peak cut control



Choice of power-saving method

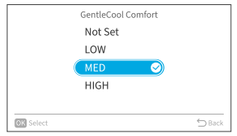


Power saving setting

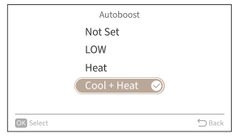
Set specific schedules for features like peak capacity cuts and the thermal operation rotation of indoor units, enabling you to match energy-saving operation hours with your utility tariffs plan. Building managers can also set the minimum and maximum temperature range for occupants and visualize energy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

From basic to advanced functions

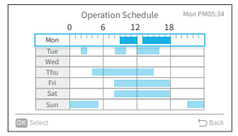
Users can control the main temperature settings from Advanced-Color controller's main screen. In addition, more advanced comfort settings help customizing the air to their occupants' specific needs.



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

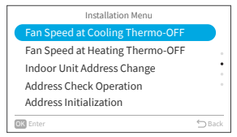


AutoBoost automatically activates for 30 minutes every time the AC is turned on, helping the room reach the desired temperature faster.

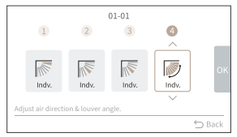


AC Scheduling is easier than ever, thanks to flexible features such as the holiday calendar.

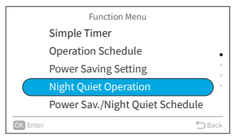
The latest VRF features



NEW **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.

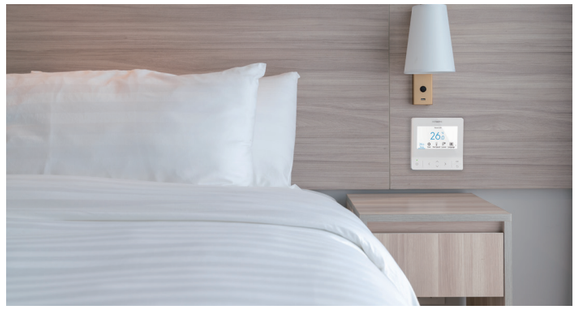


Schedule **Night Quiet** mode to minimize the outdoor unit's operation noise so you and your neighbors get a better night's sleep.

Special features for hotels

NEW **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.

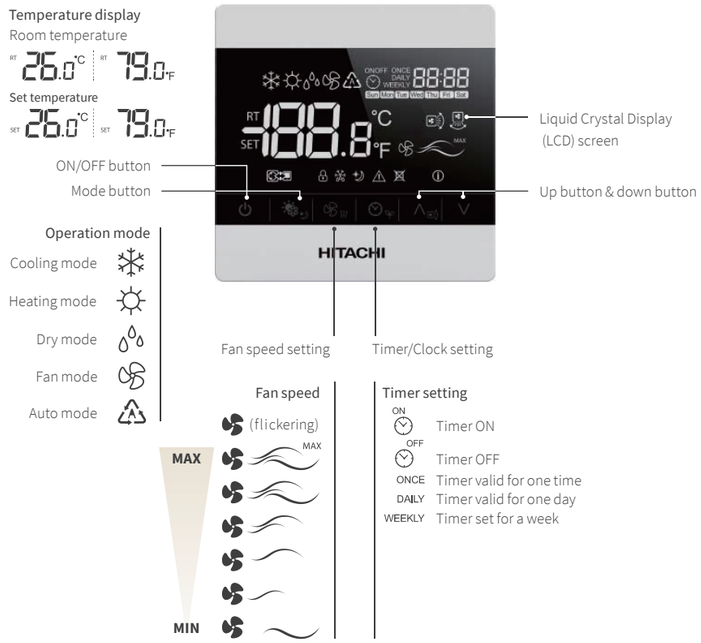
Hotel setback allows interlocking with hotel key cards. When the room is vacant, the indoor unit switches to a selected energy-saving setback temperature, ensuring the room remains at a comfortable temperature when unoccupied.



Ideal for indoor units with motion sensor features

NEW 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.

WIRED REMOTE CONTROLLER (HCWA10NEGQ)



Outer dimensions (H×W×D)

(mm) 88.0×88.0×15.5

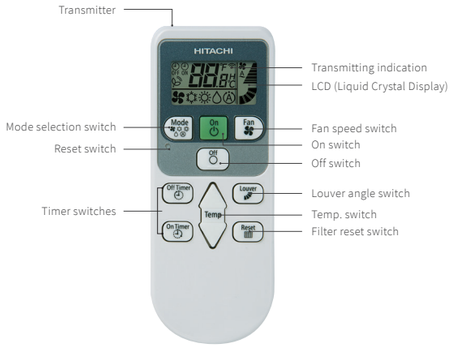
Functions

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

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



ADVANCED WIRELESS REMOTE CONTROLLER (PC-AWR)



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

Functions

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

WIRELESS REMOTE CONTROLLER (PC-LH8QE)



Outer dimensions (H×W×D) (mm) 180×48×22.15mm

Functions

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

Accessories



3P CONNECTOR CABLE PCC-1A

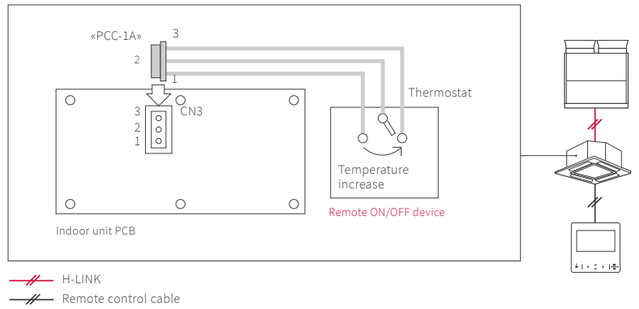
FOR CONNECTION TO REMOTE ON/OFF DEVICE/RECEIPT OF OUTPUT SIGNAL

Operation example

- Cooling operation:
  Compressor is ON by closing terminals 2 and 3 of CN3.
  Compressor is OFF by opening terminals 2 and 3 of CN3.
- Heating operation:
  Compressor is ON by closing terminals 1 and 2 of CN3.
  Compressor is OFF by opening terminals 1 and 2 of CN3.

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

System configuration example





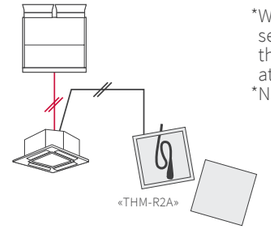
REMOTE SENSOR THM-R2A

ROOM TEMPERATURE SENSOR

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

Length	m	8.00

System configuration example



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

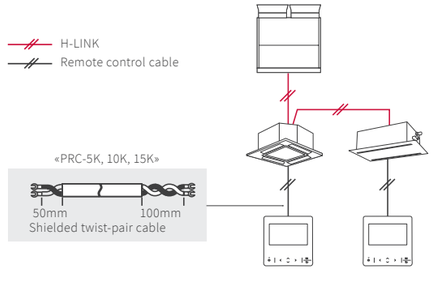


REMOTE CONTROL CABLE PRC-5K, 10K, 15K

FOR PC-ARFG1 CONNECTION (TO IDU)

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

System configuration example



*PC-ARFG1 does not include a remote control cable. Use this cable if you don't have one available in your field.

Johnson Controls Hitachi Air Conditioning Europe SAS

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