

— SET FREE mini VRF

REVERSE CYCLE





—
**Introducing
SET FREE mini**

HELPING YOU FORM AN IDEAL LIVING ENVIRONMENT

We want to create a comfortable living environment where people can enjoy life to the full. SET FREE mini embodies such a wish. A host of outdoor units, indoor units and control devices matches the needs of various living spaces. Which is not only gratifying for the owners who use them, but also brings diverse benefits to architects, installers and other customers involved in space design.

AESTHETICS



We can offer you a number of options that help enhance the aesthetics of your building.

- High external pressure of outdoor unit up to 30Pa (3-8HP Class)
- Fashionable outdoor and indoor unit appearance
- Large capacity outdoor unit saves installation space

HIGHER PERFORMANCE



We are committed to offering better energy-saving results with our improved outdoor units, indoor units and advanced control systems.

- DRED - Demand Response Enabling Device Availability
- Higher performance in both EER and COP
- Low standby power consumption design

ADAPTABILITY



Both the quality and capability of adjustment to your environment are benefits of the HNRQ Series.

- Up to 52.0°C ambient temperature for cooling operations
- Noise reduction mode
- As low as -20.0°C ambient temperature for heating operations

EASY SERVICING AND MAINTENANCE



Our original transmission system, H-LINK, and newly improved PCB support smooth servicing and maintenance.

- H-LINK
- User-friendly service board for easier testing and diagnostics

DESIGN FLEXIBILITY



Any local requirements and constraints can be met with a number of features in the outdoor unit.

- Flexibility up to 180m total liquid piping
- Wide range of indoor units availability
- High external pressure of outdoor unit
- Small body with large capacity

COMFORT



Our units offer you a degree of comfort, even in winter or in high humidity environments.

- 0.5°C setpoint
- Smart defrosting

EASY INSTALLATION



Overall cost and time reduction can be achieved thanks to our newly designed outdoor units and original H-LINK system.

- Slim and lightweight body
- H-LINK
- Four directions of piping in outdoor unit
- Diagnostics using the outdoor unit's 7-segment displays

WARRANTY



Residential



Commercial



Outdoor units

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

INDEX

05	LINE UP OVERVIEW
06	BETTER PERFORMANCE
07	COMFORT
09	DESIGN FLEXIBILITY
10	ADAPTABILITY
11	EASY INSTALLATION
12	SPECIFICATIONS

LINE UP OVERVIEW

OFFERING YOU THREE TYPES OF OUTDOOR UNITS



	Cooling Capacity	Heating Capacity	Weight
3HP Class	8.0kW	9.0kW	75kg
3.5HP Class	10.0kW	11.0kW	75kg

	Cooling Capacity	Heating Capacity	Weight
4HP Class	11.2kW	12.5kW	114kg
4.5HP Class	12.0kW	14.0kW	114kg
5HP Class	14.0kW	16.0kW	114kg
6HP Class	16.0kW	18.0kW	114kg
6.5HP Class	18.0kW	20.0kW	118kg

	Cooling Capacity	Heating Capacity	Weight
7HP Class	20.0kW	22.4kW	154kg
8HP Class	22.4kW	25.0kW	154kg
10HP Class	28.1kW	31.5kW	172kg
11HP Class	31.0kW	33.9kW	172kg
12HP Class	33.5kW	37.5kW	172kg

SUMMARY TABLE

Item	Unit	HNRQ Series
Capacity	HP class	HP
	Nominal cooling	8.0-33.5
	Nominal heating	9.0-37.5
Connectable indoor unit quantity	unit	2-10 (15**)
Combination capacity ratio between ODU and IDU (all range)	%	50-130
Maximum piping length	Total liquid piping length	100-180
	Between outdoor unit and farthest indoor unit	65-100
	Between 1st branch multi kit and farthest indoor unit	40
	Between multi kit and each indoor unit	15
Maximum level difference	Between outdoor unit and indoor units (ODU above IDU)	30/50
	Between outdoor unit and indoor units (IDU above ODU)	30/40
	Between indoor units	15
Cooling operation range *	°C DB	-5.0 to 52.0
Heating operation range *	°C DB	-20.0 to 24.0

* For more details, please consult your distributors or dealer, or, refer to technical manuals.

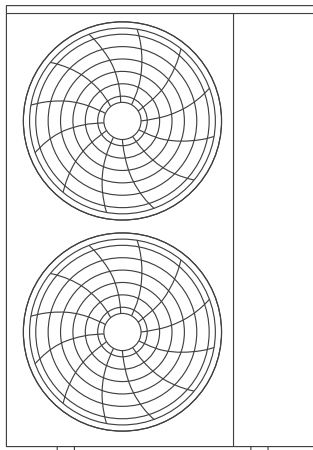
** Numbers in parenthesis indicates the maximum number of indoor units that can be connected with in the restrictions.

BETTER PERFORMANCE

LOW STANDBY POWER CONSUMPTION DESIGN

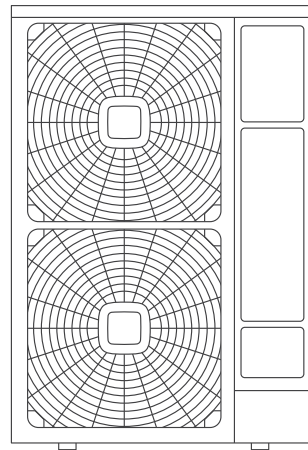
Low standby power consumption design decreases the outdoor unit's standby power consumption from 20W to lower than 5W compared with the Previous Series.

Previous Series



20W

HNRQ Series

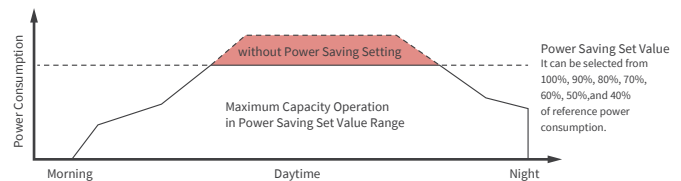
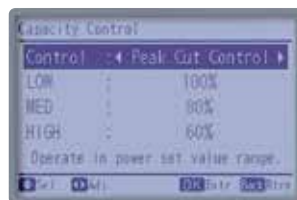


5W

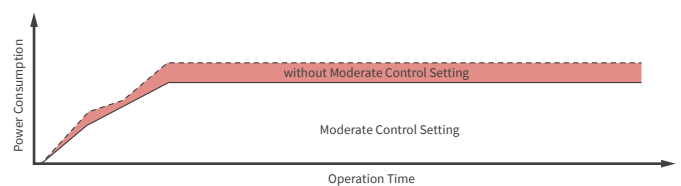
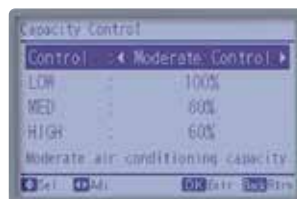
* 3-6.5HP Class
* Please refer to the technical catalogue for more details.

Outdoor unit capacity control ⇔ two options

(1) Peak-cut control:
set the limit on the power consumption range



(2) Moderate control:
keep the power consumption within proper limit (40-90%)



COMFORT

GENTLECOOL CONTROL

Set your comfortable temperature not only for “Room” but also for “Air” in cooling operation. To make your room reach to the desired temperature faster, the discharged air from the indoor unit can be sometimes much cooler, causing discomfort at the beginning of operation. Now, you can choose “discharge air temperature = your own comfort level”, as you like, by our advanced wired remote controller PC-ARF1. You can be In comfort and avoid cold draft from the moment when cooling operation starts, while the room gently cools down.



"Comfort Setting" Control Cool Air in PC-ARFPE1

Potential Discomfort

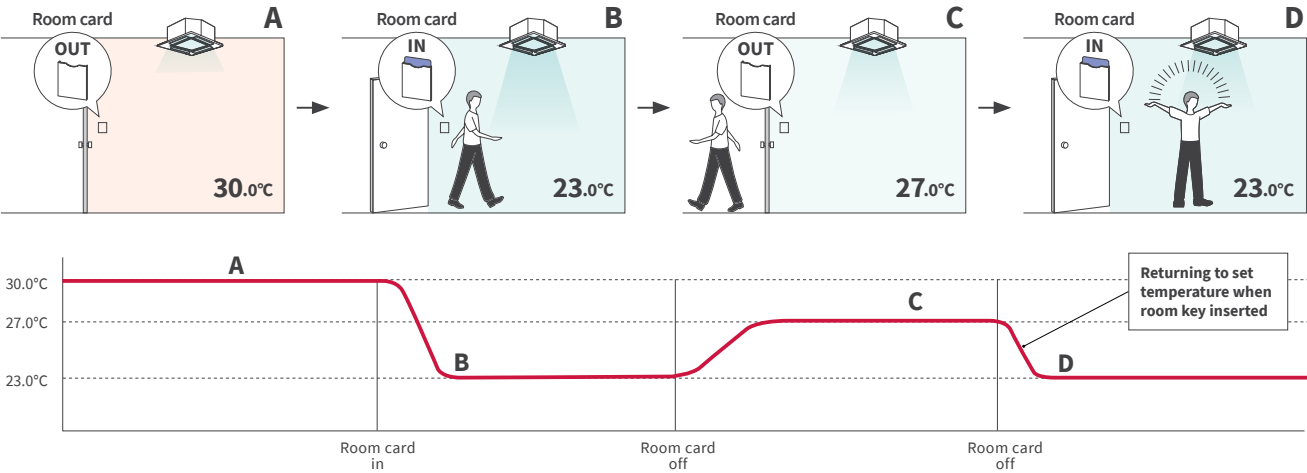


GentleCool → No Cold Draft



AWAY FUNCTION

Off set the temperature when the space is not occupied reducing the power consumption
Optional accessories required

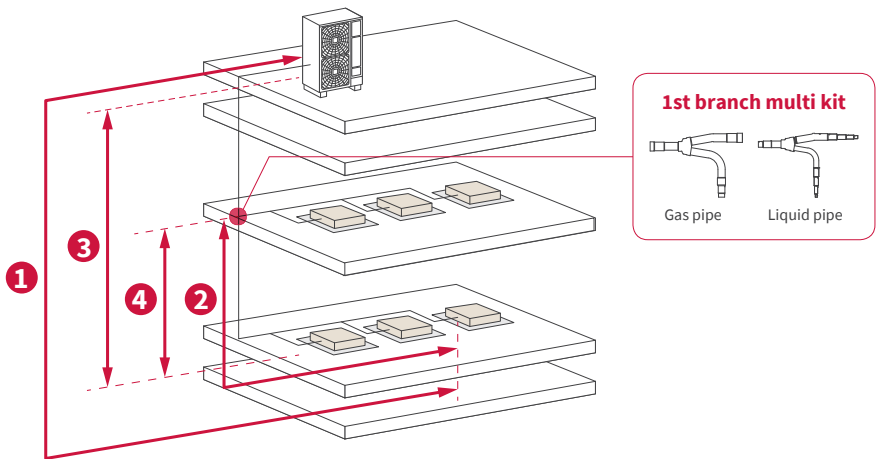


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DESIGN FLEXIBILITY

PIPING FLEXIBILITY

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



Maximum piping length

	3-3.5HP Class	4-5HP Class	6-6.5HP Class	7-12HP Class
Total piping length	100m	120m	150m	180m
① Between outdoor unit and farthest indoor unit	65m	70m	85m	100m
② Between 1st branch multi kit and farthest indoor unit	40m	40m	40m	40m

Maximum level difference

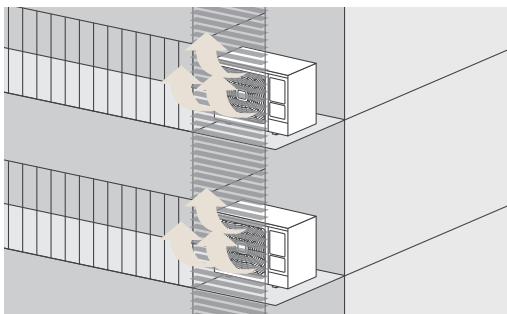
	3-3.5HP Class	4-5HP Class	6-6.5HP Class	7-12HP Class
③ Between outdoor unit and indoor units	ODU above IDU	30m	30m	30m
	IDU above ODU	30m	30m	40m
④ Between indoor units	15m	15m	15m	15m

Each maximum length or level difference has several conditions, please refer to the technical documents in inquiry.

POWERFUL AIR

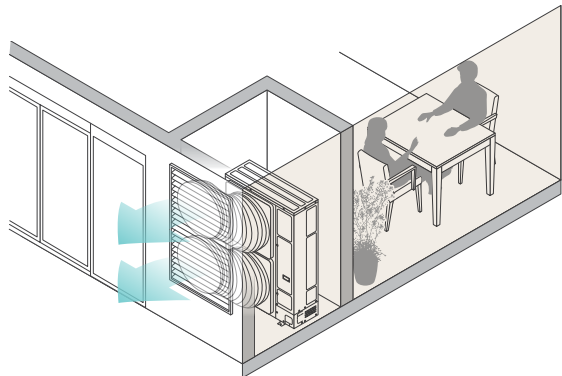
High external pressure of outdoor unit

High external static pressure up to 30Pa is available in order to avoid air short-circuit conditions. This ensures that the outdoor unit runs with a good ventilating condition under different conditions of installation.



※ 30Pa is only available for between 3-8HP class

Our SET FREE mini outdoor units are designed to be located internally by the straightness of air flow thanks to higher external static pressure with DC inverter fan, leading to more options for installation and visual aesthetics of buildings.

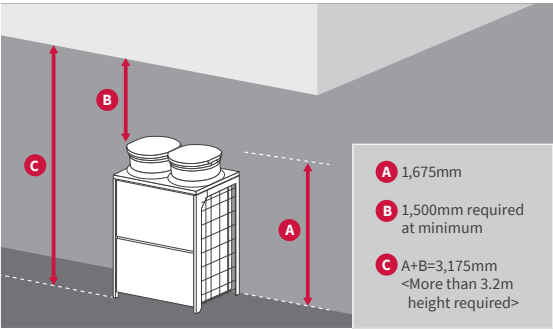


SMALL BODY WITH LARGE CAPACITY

Since the HNRQ Series adopts a more compact outdoor unit compared with the top-blowing type large capacity outdoor unit, it offers an increased degree of freedom of installation.

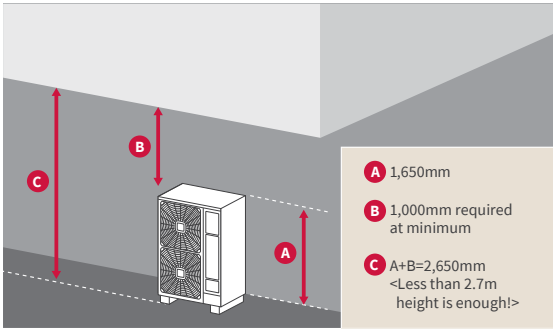
Height-limited space

Top-blowing type



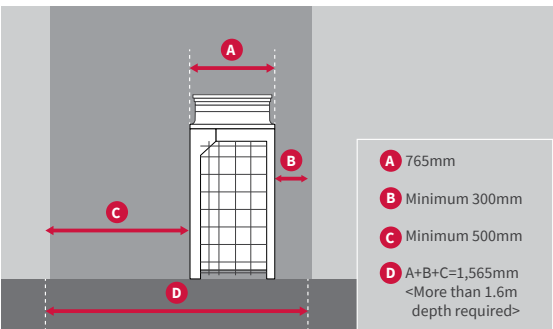
Better limit in Height!

HNRQ Series



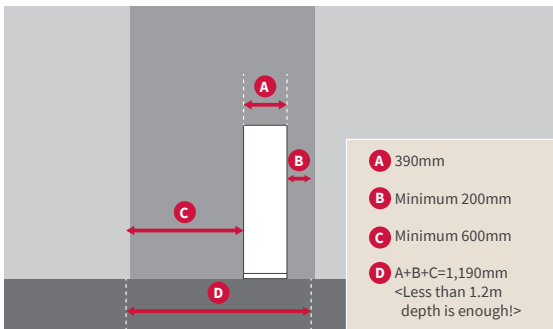
Depth-limited space

Top-blowing type



Better limit in Depth!

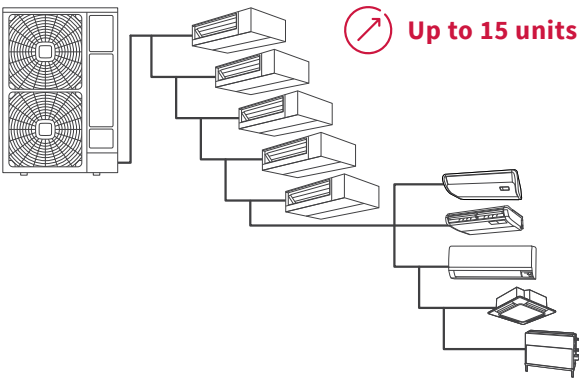
HNRQ Series



* 8HP Class
* Please refer to the installation manual for more details.

WIDE INDOOR UNIT COMBINATION

Because of the large-capacity outdoor unit, it is possible to install a whole range of indoor units in various rooms using one outdoor unit.



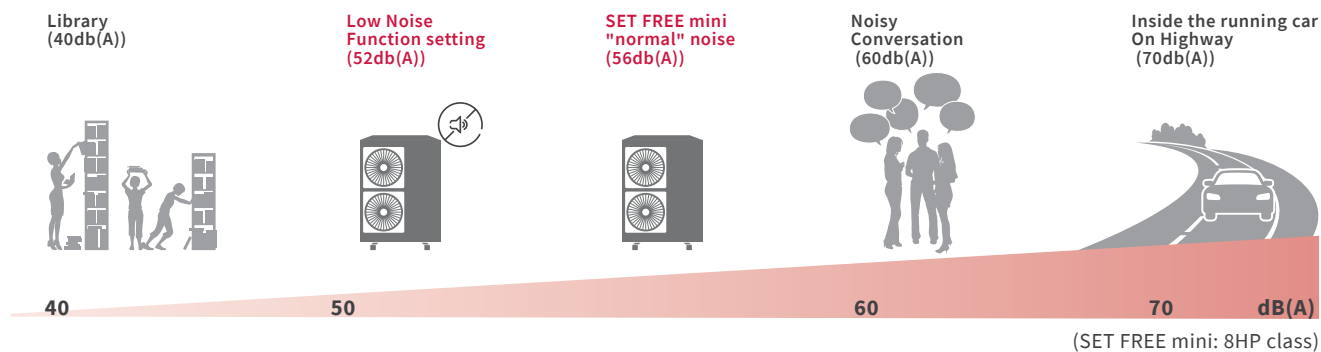
SET FREE mini HNRQ series

DESIGN FLEXIBILITY

ADAPTABILITY

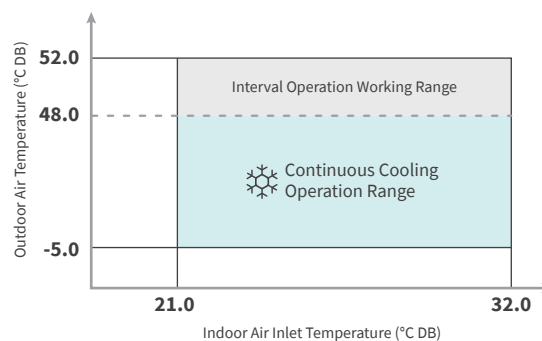
THE BEAUTY OF SILENCE

Balance is the key to harmony, so SET FREE mini outdoor units incorporates advanced features to ensure a more peaceful environment with less disturbance to the outside environment



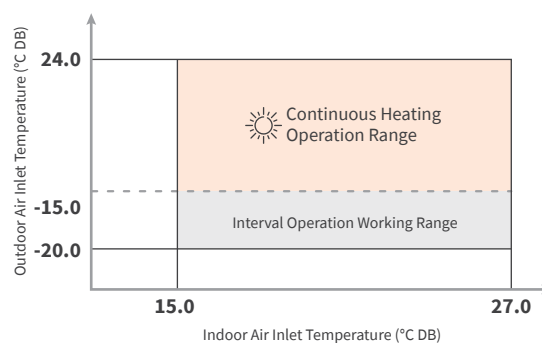
UP TO 52.0°C AMBIENT TEMPERATURE FOR COOLING OPERATIONS

- Up to 48.0°C stable running
 - Up to 52.0°C interval running
- Special fresh air intake and trapezoid heat sink design are adopted for the inverter driver. This improves heat emission and allows the system to be running stably under high ambient conditions.



AS LOW AS -20.0°C AMBIENT TEMPERATURE FOR HEATING OPERATIONS

- As low as -15.0°C stable running
 - As low as -20.0°C interval running
- Special 3-row coil design (3/3.5/6/6.5/10/11/12HP class) and larger area of coil enhance heating capability. This enables heating as low as -20.0°C ambient condition even in cold regions.



EASY INSTALLATION

FOUR DIRECTIONS OF PIPING IN OUTDOOR UNIT



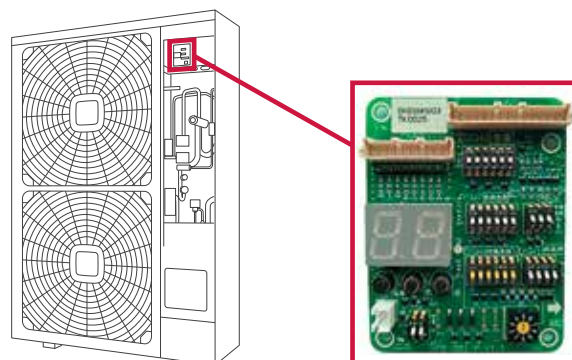
Stop valve built with 4-directional outlet piping for easier pipe installation.
The refrigerant pipes can connect the stop valves from the front and right, rear and bottom of the unit.

USER-FRIENDLY SERVICE BOARD FOR EASIER TESTING AND DIAGNOSTICS

User-friendly service board with dial code switch and push button is designed for easier testing and diagnostics.
The service board, which is located in front of the outdoor unit, is easy to set.

Functions are as follows:

- Monitoring real-time running status
- Displaying the fault code for diagnostics
- Checking historical fault information
- Optimising control parameters based on the installation field condition

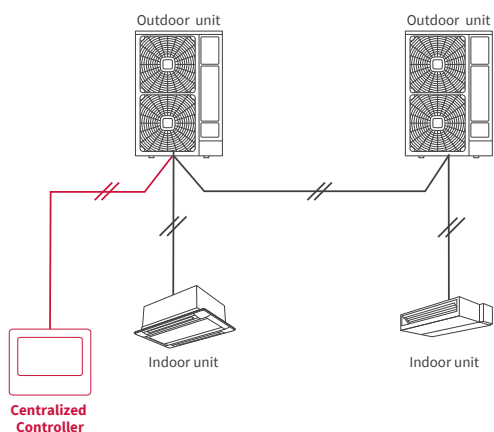


H-LINK

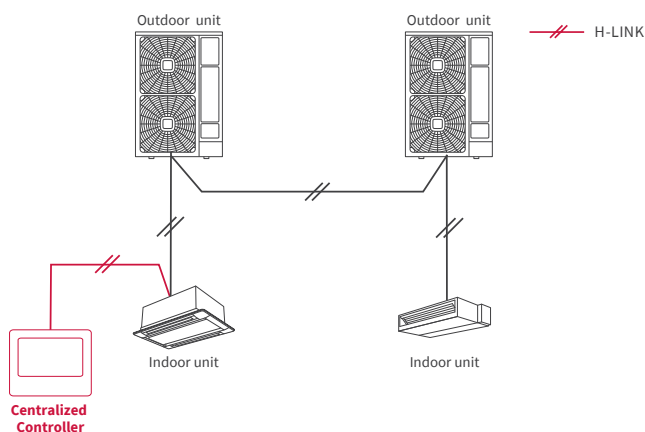
H-LINK requires only two transmission wires connected to each outdoor unit for up to 64 refrigerant cycles, and connecting wires for all indoor units and outdoor units.

- Flexible installation options
- No polarity requirements
- Centralised Controller is enabled via indoor or outdoor unit
- Up to 160 indoor units and outdoor units can be connected
- Possible to have a cable length of up to 1,000m

Centralised Controller to Outdoor Unit



Centralised Controller to Indoor Unit



For more details see P49

SPECIFICATIONS



HP Class

Model			unit	RAS-3.0HNBKQ1	RAS-3.5HNBKQ1	RAS-4.0HNBKQ1	RAS-4.5HNBKQ1	RAS-5.0HNBKQ1	RAS-6.0HNBKQ1	RAS-6.5HNBKQ1
Power Supply		V/Ph/Hz		220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Capacity	Cooling	kW		8.00	10.00	11.20	12.00	14.00	16.00	18.00
	Heating	kW		9.00	11.00	12.50	14.00	16.00	18.00	20.00
Power Input	Cooling	kW		2.05	2.75	2.73	3.14	3.60	4.26	5.34
	Heating	kW		2.15	2.66	3.00	3.34	3.80	4.21	4.92
Air Flow Rate	Standard	m ³ /min		62	62	132	132	132	135	135
Dimensions	H×W×D	mm		800×950×320	800×950×320	1,380×950×320	1,380×950×320	1,380×950×320	1,380×950×320	1,380×950×320
Weight	Net	kg		75	75	114	114	114	118	118
Footprint Area		m ²		0.31	0.31	0.31	0.31	0.31	0.31	0.31
Packaging Volume		m ³		0.48	0.48	0.77	0.77	0.77	0.77	0.77
Compressor Type				Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary
Refrigerant	Type			R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Charge Amount	kg		3.0	3.0	4.1	4.1	4.1	4.4	4.4
Refrigerant Oil	Model			α 68HES-H	α 68HES-H	α 68HES-H	α 68HES-H	α 68HES-H	α 68HES-H	α 68HES-H
	Charge Amount	L		1.02	1.02	1.65	1.65	1.65	1.65	1.65
Number of Fan Motors				1	1	2	2	2	2	2
Capacity Ratio of IDU/ODU		%		50-130%	50-130%	50-130%	50-130%	50-130%	50-130%	50-130%
Sound Pressure Level	Semi-anechoic	dB(A)		51	53	54	54	54	55	55
Piping	Liquid	mm		φ9.52	φ9.52	φ9.52	φ9.52	φ9.52	φ9.52	φ9.52
	Gas	mm		φ15.88	φ15.88	φ15.88	φ15.88	φ15.88	φ15.88	φ15.88
Connectable IDU Qty				2~4	2~5	2~6	2~6	2~7	2~8	2~9
Working Temp. Range	Cooling			Stable Work at -5.0~48.0°C DB and Interval at 48.0~52.0°C DB						
	Heating			Stable Work at -15.0~24.0°C DB and Interval at -20.0~-15.0°C DB						
Refrigerant Control Mode				Microcomputer-controlled Electronic Expansion Valve						
Tubing Connection Method				Flare Connection						
Maximum Piping Length	Total Liquid Pipe Length	m		100	100	120	120	120	150	150
	Between ODU and farthest IDU	m		65	65	70	70	70	85	85
	Between 1st Branch Multi Kit and Farthest IDU	m		40	40	40	40	40	40	40
	Between Each Multi Kit and Each IDU	m		15	15	15	15	15	15	15
Maximum Level Difference	Between ODU and IDU	m		30	30	30	30	30	30	30
	Between IDUs	m		15	15	15	15	15	15	15

Notes:

1. The EER and COP are tested under the following working conditions, when the outdoor unit is connected to the special combination of indoor units.

Working conditions for testing EER

- Indoor temperature: 27.0°C DB/19.0°C WB
- Outdoor temperature: 35.0°C DB
- Pipe length: 10.0 metre
- Pipe lift: 0 metre

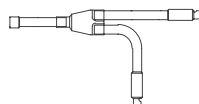
Working conditions for testing COP

- Indoor temperature: 20.0°C DB
- Outdoor temperature: 7.0°C DB/6.0°C WB
- Pipe length: 10.0 metre
- Pipe lift: 0 metre

2. Noise test conditions are specified below: Noise is tested 1.5 metre above ground level and 1.0 metre away from the surface of the external service board on the outdoor unit. Noise parameters are tested in a semi-anechoic chamber.

OPTIONAL PARTS

MULTI-KIT



E-102SN



HP Class

Model

			7	8	10	11	12
			RAS-7.0HNBRMQ1	RAS-8.0HNBRMQ1	RAS-10HNBRMQ1	RAS-11HNBRMQ1	RAS-12HNBRMQ1
Power Supply	V/Ph/Hz		380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Capacity	Cooling	kW	20.00	22.40	28.10	31.00	33.50
	Heating	kW	22.40	25.00	31.50	33.90	37.50
Power Input	Cooling	kW	5.40	6.38	7.84	8.87	10.40
	Heating	kW	5.60	6.04	8.19	9.42	10.74
Air Flow Rate	Standard	m ³ /min	162	162	172	172	172
Dimensions	H×W×D	mm	1,650×1,100×390	1,650×1,100×390	1,650×1,100×390	1,650×1,100×390	1,650×1,100×390
Weight	Net	kg	154	154	172	172	172
Footprint Area		m ²	0.43	0.43	0.43	0.43	0.43
Packaging Volume		m ³	1.04	1.04	1.04	1.04	1.04
Compressor Type			Scroll	Scroll	Scroll	Scroll	Scroll
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A
	Charge Amount	kg	5.5	5.5	6.5	6.5	6.5
Refrigerant Oil	Model		FV68H	FV68H	FV68H	FV68H	FV68H
	Charge Amount	L	1.60	1.60	1.60	1.60	1.60
Number of Fan Motors			2	2	2	2	2
Capacity Ratio of IDU/ODU	%		50-130%	50-130%	50-130%	50-130%	50-130%
Sound Pressure Level	Semi-anechoic	dB(A)	56	56	59	59	60
Piping	Liquid	mm	φ9.52	φ9.52	φ12.7	φ12.7	φ12.7
	Gas	mm	φ19.05	φ19.05	φ19.05*	φ19.05**	φ19.05**
Connectable IDU Qty			2~10	2~10	2~10 (13)***	2~10 (14)***	2~10 (15)***
Working Temp. Range	Cooling		Stable Work at -5.0~48.0°C DB and Interval at 48.0~52.0°C DB				
	Heating		Stable Work at -15.0~24.0°C DB and Interval at -20.0~-15.0°C DB				
Refrigerant Control Mode			Microcomputer-controlled Electronic Expansion Valve				
Tubing Connection Method			Flare Connection				
Maximum Piping Length	Total Liquid Pipe Length	m	180	180	180	180	180
	Between ODU and farthest IDU	m	100	100	100	100	100
	Between 1st Branch Multi Kit and Farthest IDU	m	40	40	40	40	40
	Between Each Multi Kit and Each IDU	m	15	15	15	15	15
Maximum Level Difference	Between ODU and IDU	m	50	50	50	50	50
	Between IDUs	m	40	40	40	40	40

* Indicates that there are pipe adapters in the outdoor unit, which are used to adjust the gas pipe between the outdoor unit and the first branch. Thus the φ19.05 diameter pipe is converted to φ22.2 diameter pipe in the model.

** Indicates that there is a pipe adapter in the model, which is used to adjust the gas pipe length between the outdoor unit and the first branch. Thus the φ19.05 diameter pipe is converted to a φ25.4 diameter pipe.

*** Numbers in parenthesis indicate the maximum number of indoor units that can be connected with certain limitations. Please contact the manufacturer for more details.

Notes:

1. The EER and COP are tested under the following working conditions, when the outdoor unit is connected to the special combination of indoor units.

Working conditions for testing EER

- Indoor temperature: 27.0°C DB/19.0°C WB
- Outdoor temperature: 35.0°C DB
- Pipe length: 10.0 metre
- Pipe lift: 0 metre

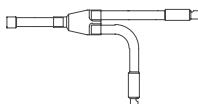
Working conditions for testing COP

- Indoor temperature: 20.0°C DB
- Outdoor temperature: 7.0°C DB/6.0°C WB
- Pipe length: 10.0 metre
- Pipe lift: 0 metre

2. Noise test conditions are specified below: Noise is tested 1.5 metre above ground level and 1.0 metre away from the surface of the external service board on the outdoor unit. Noise parameters are tested in a semi-anechoic chamber.

OPTIONAL PARTS

MULTI-KIT



E-102SN



Indoor units

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

INDEX

16	LINE UP OVERVIEW
19	DUCTED
25	CONCEALED & EXPOSED
28	CEILING CASSETTE

LINE UP OVERVIEW

COMPARING VRF INDOOR UNIT RANGE

IDU Category	Cooling (kW)	2.2	2.8	3.6	4.0	5.0	5.6	6.3	7.1	8.0	8.4	9.0	11.2	14.0	14.2	16.0
DUCTED	HIGH ESP [RPI-FSN3] 						●		●	●			●	●		●
	MEDIUM ESP 	●	●		●		●		●	●			●	●		●
	HIGH ESP [RPIH-HNAUNQ] 										●	●	●		●	●
	COMPACT (Both AC & DC Motor Type available) 	●	●	●	●	●	●	●	●							
	LARGER AIR VOLUME 									●			●	●		●
CONCEALED & EXPOSED	WALL MOUNTED 	●	●		●		●		●	●			●			
	FLOOR / CEILING CONVERTIBLE 					●	●	●	●		●	●	●		●	
	CEILING SUSPENDED 				●		●		●	●			●	●		●
CEILING CASSETTE	4-WAY CASSETTE [RCI-FSN3, RCI-FSKDNQ] 		●		●		●		●	●			●	●		●
	4-WAY CASSETTE COMPACT 	●	●		●		●		●							
	2-WAY CASSETTE 	●	●		●		●		●	●			●	●		●
	1-WAY CASSETTE 	●	●		●		●		●	●						

SET FREE mini HNRQ series

INDEX / LINE UP OVERVIEW

LINE UP OVERVIEW

FEATURES COMPARISON

Model		HIGH/MEDIUM ESP TYPE	HIGH ESP TYPE	COMPACT TYPE (AC)	COMPACT TYPE (DC)	LARGER AIR VOLUME TYPE
						
		RPI-FSN3 RPI-M-FSN3	RPIH-HNAUNQ	RPIZ-HNATNQ	RPIZ-HNDTSQ	RPI-FSN2SQ
 COMFORT	Temperature Setting Rate	0.5°C/1.0°C	1.0°C	1.0°C	1.0°C	1.0°C
	Indoor Fan Speed	4 taps	3 taps	3 taps	6 taps	3 taps
	Louvre Direction	-	-	-	-	-
	Individual Louvre Setting	-	-	-	-	-
	Auto Louvre Setting	-	-	-	-	-
	Cold Draft Prevention Availability (*1)	●	●	●	●	●
	Dry mode Availability	●	●	●	●	●
	Power Saving with Motion Sensor (*2)	●	-	-	-	-
 POWER-SAVING	Outdoor Unit capacity control (*2)	●	-	-	-	-
	Peak cut control	●	-	-	-	-
	moderate control	●	-	-	-	-
	Indoor Unit Rotation Control (*2)	●	-	-	-	-
	Indoor Air Temperature difference	●	-	-	-	-
 MENU	Automatic Fan Operation	●	●	●	●	●
	Quick Function	●	-	-	-	-
	Comfort setting	●	-	-	-	-
	Control Cool Air	●	-	-	-	-
	Daylight Saving Time	●	●	●	●	●
	Power Consumption visualisation	●	-	-	-	-
	Weekly Schedule Setting	●	●	●	●	●
 MAINTENANCE	Power-Saving Setting	●	-	-	-	-
	Dirty Filter Notice Availability	●	●	●	●	●
	Sensor Condition Check	●	●	●	●	●
	Model Display (*2)	●	-	-	-	-
	Check Menu	●	-	-	-	-
 OPTIONAL ACCESSORY	Indoor/Outdoor PCB Check	●	●	●	●	●
	Alarm History Display	●	●	●	●	●
	Coloured Decoration Panel availability	-	-	-	-	-
	Motion Sensor	SOR-NEZ	-	-	-	-
	Receiver Kit for wireless remote controller	PC-ALHZ1	PC-ALHZ1	PC-ALHZ1	PC-ALHZ1	PC-ALHZ1
	Drain-up mechanism availability	● (*3)	DUPI-361Q	● (*3)	● (*3)	-
	Fresh air intake accessory	-	-	-	-	-
	Air filter	F-56/90/160LI B-56/90/160LI	KW-PP9/10Q	KW-PP5Q KW-PP6Q	KW-PP5Q KW-PP6Q	-
Strainer kit		-	-	-	-	-

LINE UP OVERVIEW

(*7) Optional parts: Duct Adapter is available. Please consult your distributor.



HIGH ESP TYPE (EXTERNAL STATIC PRESSURE TYPE) [RPI-FSN3]

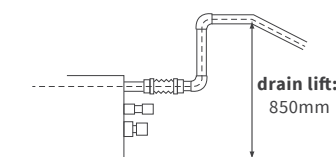


FEATURES AND BENEFITS

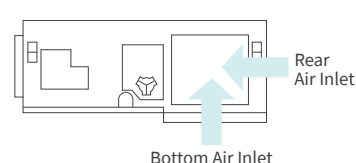


- Setback temperature control available, leading to better operation.
- GentleCool control to ensure you are not bothered by cold draft

Fits a standard drain pump with
850 mm lift



Air Inlet can be chosen from two
locations



GENERAL DATA & ACCESSORIES

Model		RPI-2.0FSN3	RPI-2.5FSN3	RPI-3.0FSN3	RPI-4.0FSN3	RPI-5.0FSN3	RPI-6.0FSN3
Indoor Unit Power Supply		AC 1Φ, [220-240V/50Hz] [220V/60Hz]					
Nominal Cooling Capacity	kW	5.6	7.1	8.0	11.2	14.0	16.0
Nominal Heating Capacity	kW	6.3	8.5	9.0	12.5	16.0	18.0
Sound Pressure Level (Overall A Scale)(Hi2/Hi/Me/Lo)	dB(A)	41/38/35/32	37/35/32/30	39/36/33/31	40/37/34/32	42/39/36/33	44/40/37/34
Sound Power Level (Overall A Scale)(Hi2/Hi/Me/Lo)	dB(A)	59/56/53/50	55/53/50/48	57/54/51/49	58/55/52/50	60/57/54/51	62/58/55/52
Outer Dimensions	H×W×D mm	300×700 ×800	300×1,050 ×800	300×1,050 ×800	300×1,400 ×800	300×1,400 ×800	300×1,400 ×800
Net Weight	kg	29	38	38	48	48	48
Refrigerant		R410A	R410A	R410A	R410A	R410A	R410A
Indoor Fan	Air Flow Rate (Hi2/Hi/Me/Lo)	m³/min (cfm)	14.5/13/ 11/9.5	18.5/16.5/ 14.5/12	20/17.5/ 15.5/13	30/26.5/ 23/20	33.5/29.5/ 26/22
			(512/459/ 388/335)	(653/582/ 512/423)	(706/618/ 547/459)	(1,059/935/ 812/706)	(1,182/1,041/ 917/776)
External Pressure (*3)	Pa	50(100-200)	50(100-200)	50(100-200)	50(100-200)	50(100-200)	50(100-200)
Motor	W	157	190	190	259	259	259
Connections	m³	Flare-Nut Connection (with Flare Nuts)					
Refrigerant Piping	Liquid Line	mm	Φ6.35	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas Line	mm	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88
	Condensate Drain		VP25	VP25	VP25	VP25	VP25
Approximate Packing Measurement	m³	0.28	0.39	0.39	0.50	0.50	0.50

Receiver kit	PC-ALHZ1
Motion Sensor	SOR-NEZ
Condensate Drain Pump Kit	- (included as standard equipment)

Antifungal Long-Life Filter	2.0 (HP Class)	F-56LI
	2.5-3.0 (HP Class)	F-90LI
	4.0-6.0 (HP Class)	F-160LI

Filter Box for Long-Life Filter	2.0 (HP Class)	B-56LI
	2.5-3.0 (HP Class)	B-90LI
	4.0-6.0 (HP Class)	B-160LI

NOTES:

1. The nominal cooling capacity is the combined capacity of the Hitachi standard split system, and is based on the JIS standard B8616.

Cooling Operation Conditions

Indoor Air Inlet Temperature: 27.0°C DB
19.0°C WB

Outdoor Air Inlet Temperature: 35.0°C DB

Piping Length: 7.5 metre

Piping Lift: 0 metre

Heating Operation Conditions

Indoor Air Inlet Temperature: 20.0°C DB
7.0°C DB

Outdoor Air Inlet Temperature: 6.0°C WB

Piping Length: 7.5 metre

Piping Lift: 0 metre

2. The sound pressure level is based on following conditions. 1.5 metre Beneath the Unit. With Discharge Duct (2.0 metre) and Return Duct (1.0 metre). Voltage of the power source for the indoor fan motor is 220V. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

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



MEDIUM ESP TYPE (EXTERNAL STATIC PRESSURE TYPE)

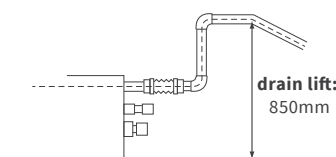


FEATURES AND BENEFITS

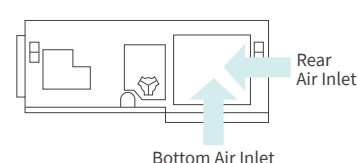


- Setback temperature control available, leading to better operation.
- GentleCool control to ensure you are not bothered by cold draft

Fits a standard drain pump with
850 mm lift



Air Inlet can be chosen from two
locations



GENERAL DATA & ACCESSORIES

Model		RPIM-0.8FSN3	RPIM-1.0FSN3	RPIM-1.5FSN3	RPIM-2.0FSN3	RPIM-2.5FSN3	RPIM-3.0FSN3	RPIM-4.0FSN3	RPIM-5.0FSN3	RPIM-6.0FSN3
Indoor Unit Power Supply		AC 1Φ, [220-240V/50Hz] [220V/60Hz]								
Nominal Cooling Capacity	kW	2.2	2.8	4.0	5.6	7.1	8.0	11.2	14.0	16.0
Nominal Heating Capacity	kW	2.5	3.2	4.8	6.3	8.5	9.0	12.5	16.0	18.0
Sound Pressure Level (Overall A Scale)(Hi2/Hi/Me/Lo)	dB(A)	32/30/28/27	33/31/29/28	38/35/32/30	40/37/34/31	37/35/33/31	38/36/33/31	40/38/35/32	42/39/36/34	43/40/37/34
Sound Power Level (Overall A Scale)(Hi2/Hi/Me/Lo)	dB(A)	50/48/46/45	51/49/47/46	56/53/50/48	58/55/52/49	55/53/51/49	56/54/51/49	58/56/53/50	60/57/54/52	61/58/55/52
Outer Dimensions H×W×D	mm	250×700×800	250×700×800	250×700×800	250×700×800	250×1,050×800	250×1,050×800	250×1,400×800	250×1,400×800	250×1,400×800
Net Weight	kg	26	26	27	27	36	36	44	44	44
Refrigerant		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate (Hi2/Hi/Me/Lo)	m³/min (cfm)	8.5/7.5/6.5/5.5	9.5/8.5/7.5/6.5	13/11.5/10/8.5	14.5/13/11/9.5	18.5/16.5/14/12	20/17.5/15.5/13	30/26.5/23/20	33.5/29.5/26/22	36/31.5/27.5/24
		(300/265/229/194)	(335/300/265/229)	(459/406/353/300)	(512/459/388/335)	(653/582/494/423)	(706/618/547/459)	(1,059/935/812/706)	(1,182/1,041/917/776)	(1270/1,112/970/847)
External Pressure (*3)	Pa	50(100-150)	50(100-150)	50(100-150)	50(100-150)	50(100-150)	50(100-150)	50(100-150)	50(100-150)	50(100-150)
Motor	W	157	157	157	157	190	190	259	259	259
Connections	m³	Flare-Nut Connection (with Flare Nuts)								
Refrigerant Piping	Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas Line	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88
	Condensate Drain	VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25
Approximate Packing Measurement	m³	0.24	0.24	0.24	0.24	0.33	0.33	0.42	0.42	0.42
Receiver kit		PC-ALHZ1								
Motion Sensor		SOR-NEZ								
Condensate Drain Pump Kit		- (included as standard equipment)								
Antifungal Long-Life Filter	0.8-2.0 (HP Class)	F-56LI								
	2.5-3.0 (HP Class)	F-90LI								
	4.0-6.0 (HP Class)	F-160LI								
Filter Box for Long-Life Filter		0.8-2.0 (HP Class)		B-56LI		2.5-3.0 (HP Class)		B-90LI		B-160LI

NOTES:

- The nominal cooling capacity is the combined capacity of the Hitachi standard split system, and is based on the JIS standard B8616.

Cooling Operation Conditions	Heating Operation Conditions
Indoor Air Inlet Temperature: 27.0°C DB	Indoor Air Inlet Temperature: 20.0°C DB
	Outdoor Air Inlet Temperature: 7.0°C DB
Outdoor Air Inlet Temperature: 35.0°C DB	
Piping Length: 7.5 metre	Piping Length: 7.5 metre
Piping Lift: 0 metre	Piping Lift: 0 metre
- The sound pressure level is based on following conditions. 1.5 metre Beneath the Unit. With Discharge Duct (2.0 metre) and Return Duct (1.0 metre). Voltage of the power source for the indoor fan motor is 220V. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.
- The data for external pressure (*3) indicates "Standard Pressure Setting (High Pressure Setting1 - High Pressure Setting2)" values when a filter is not used. The sound pressure level is based on the Standard Pressure Setting.



HIGH ESP TYPE (EXTERNAL STATIC PRESSURE TYPE) [RPIH-HNAUNQ]



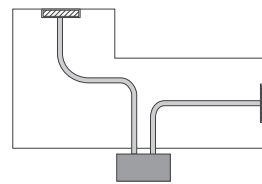
FEATURES AND BENEFITS



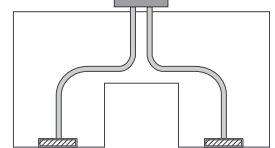
- High ESP (90/120Pa)
- Space saving design thanks to a height of only 300mm

Flexible installation options allow for multiple configurations

L-shaped space



U-shaped space



GENERAL DATA & ACCESSORIES

Model			RPIH-3.0HNAUNQ	RPIH-3.3HNAUNQ	RPIH-4.0HNAUNQ	RPIH-5.0HNAUNQ	RPIH-6.0HNAUNQ
Indoor Unit Power Supply			AC 1Φ, [220-240V/50Hz]				
Nominal Capacity	Cooling	kW	8.4	9.0	11.2	14.2	16.0
	Heating	kW	9.6	10.0	13.0	16.3	18.0
Sound Pressure Level	(Hi/Me/Lo)	dB(A)	42/39/34	42/39/34	43/39/34	44/41/37	48/42/37
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
Net Weight		kg	45	45	45	53	54
Refrigerant			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
External Static Pressure (*3)			120(90)				
Connections			Flare-Nut Connection (with Flare Nuts)				
Refrigerant	Liquid Line	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
Piping Diameter	Gas Line	mm	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88
Condensate Drain			VP25				
Approximate Packing Volume			0.40	0.40	0.40	0.49	0.49

Receiver Kit		PC-ALHZ1
Condensate Drain Pump Kit		DUPI-361Q
Air filter	3.0-4.0 (HP class)	KW-PP9Q
	5.0-6.0 (HP class)	KW-PP10Q

NOTES:

- 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	Indoor Air Inlet Temperature: 20.0°C DB
19.0°C WB	Outdoor Air Inlet Temperature: 7.0°C DB
Outdoor Air Inlet Temperature: 35.0°C DB	6.0°C WB
Piping Length: 7.5 metre	Piping Length: 7.5 metre
Piping Lift: 0 metre	Piping Lift: 0 metre
- The sound pressure level is based on following conditions.
 - 1.4 metre Beneath the unit.
 - With Discharge Duct (2.0 metre) and Return Duct (1.0 metre).
 - Voltage of the power source for the indoor fan motor is 220V.
 - (In case of the power source of 240V, the sound pressure level increases by about 1~2dB(A).)
 - The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.
- The data for external pressure (*3) indicates "Standard Pressure Setting values when a filter is not used.



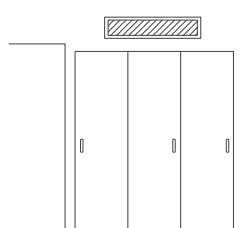
COMPACT TYPE (AC MOTOR TYPE)



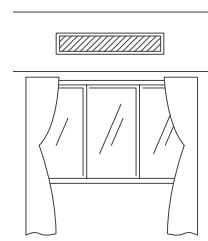
FEATURES AND BENEFITS



- Ideal for installation over the closet or windows thanks to the up to the compactness with 192mm height
- Drain-pump with 900mm lift as standard optional part
- Quiet operation level (as low as 20dB(A))
- Fan air flow rate up to 6 taps (DC motor model only)



Over the closet



In dropped ceiling, over window

GENERAL DATA & ACCESSORIES

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

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

NOTES:

- 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	Indoor Air Inlet Temperature:	20.0°C DB
	19.0°C WB	Outdoor Air Inlet Temperature:	7.0°C DB
Outdoor Air Inlet Temperature:	35.0°C DB		6.0°C WB
Piping Length: 7.5 metre		Piping Length: 7.5 metre	
Piping Lift: 0 metre		Piping Lift: 0 metre	

- The sound pressure level is based on following conditions.

1.4 metre Beneath the unit.
 With Discharge Duct (2.0 metre) and Return Duct (1.0 metre).
 Voltage of the power source for the indoor fan motor is 220V.
 (In case of the power source of 240V, the sound pressure level increases by about 1~2dB(A).)
 The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

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



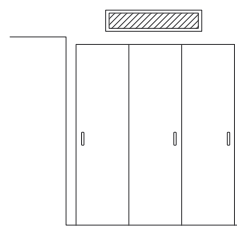
COMPACT TYPE (DC MOTOR TYPE)



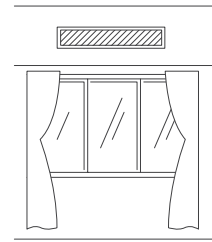
FEATURES AND BENEFITS



- Ideal for installation over the closet or windows thanks to the up to the compactness with 192mm height
- Drain-pump with 900mm lift as standard optional part
- Quiet operation level (as low as 20dB(A))
- Fan air flow rate up to 6 taps (DC motor model only)



Over the closet



In dropped ceiling, over window

GENERAL DATA & ACCESSORIES

Model (DC MOTOR)			RPIZ-0.8HNDTSQ	RPIZ-1.0HNDTSQ	RPIZ-1.3HNDTSQ	RPIZ-1.5HNDTSQ	RPIZ-1.8HNDTSQ	RPIZ-2.0HNDTSQ	RPIZ-2.3HNDTSQ	RPIZ-2.5HNDTSQ
Indoor Unit Power Supply			AC 1Φ, [220-240V/50Hz] [220V/60Hz]							
Nominal Capacity	Cooling	kW	2.2	2.8	3.6	4.0	5.0	5.6	6.3	7.1
	Heating	kW	2.5	3.2	4.0	4.5	5.6	6.3	7.1	8.0
Sound Pressure Level	(6 taps)	dB(A)	33/31/28/25/23.5/22.5	33/31/28/25/23.5/22.5	33/31/28/25/23.5/22.5	31/30/28/25/22/20	36/33.5/31/28/24.5/22.5	36/33.5/31/28/24.5/22.5	36/33.5/31/28/24.5/22.5	36/33.5/31/28/24.5/22.5
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	16.5/15/13/12/10/9	16.5/15/13/12/10/9	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 Liquid Line Piping Diameter		mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52
Refrigerant Gas Line Piping Diameter		mm	Φ12.70	Φ12.70	Φ12.70	Φ12.70	Φ15.88	Φ15.88	Φ15.88	Φ15.88
Condensate Drain			VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25
Approximate Packing Volume		m ³	0.142	0.142	0.142	0.15	0.18	0.18	0.18	0.18

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

NOTES:

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

Cooling Operation Conditions

Indoor Air Inlet Temperature: 27.0°C DB

Indoor Air Inlet Temperature: 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

Indoor Air Inlet Temperature: 7.0°C DB

Outdoor Air Inlet Temperature: 6.0°C WB

Piping Length: 7.5 metre

Piping Lift: 0 metre

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

1.4 metre Beneath the unit.

With Discharge Duct (2.0 metre) and Return Duct (1.0 metre).

Voltage of the power source for the indoor fan motor is 220V.

(In case of the power source of 240V, the sound pressure level increases by about 1~2dB(A).)

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

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



LARGER AIR VOLUME TYPE



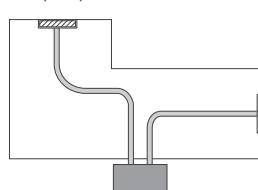
FEATURES AND BENEFITS



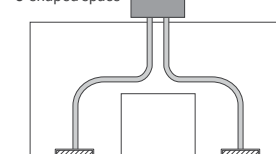
- Two external static pressure settings for better flexibility
- High external static pressure:
Up to 120Pa
- Suitable for air distribution for multiple zone

Flexible installation options allow for multiple configurations

L-shaped space



U-shaped space



GENERAL DATA & ACCESSORIES

Model			RPI-3.0FSN2SQ	RPI-4.0FSN2SQ	RPI-5.0FSN2SQ	RPI-6.0FSN2SQ
Indoor Unit Power Supply			AC 1 Φ, [220-240V/50Hz]			
Nominal Cooling Capacity			kW	8.0	11.2	14.0
Nominal Heating Capacity			kW	9.0	12.5	16.0
Sound Pressure Level (Overall A Scale) (Hi/Me/Lo)	High Pressure Setting	dB(A)	46/44/40	48/45/41	49/46/43	53/49/45
	Standard Pressure Setting	dB(A)	45/43/39	47/44/40	48/45/42	52/48/44
Outer Dimensions			H×W×D	mm	350×1,076×800	350×1,300×800
Net Weight			kg	52	57	61
Refrigerant				R410A	R410A	R410A
Indoor Fan	High Pressure Setting	m ³ /min (l/s)	29/26/20 (483/433/333)	36/33/25 (600/550/417)	47/43/34 (783/717/567)	56/50/40 (933/833/667)
	Standard Pressure Setting	m ³ /min (l/s)	29/26/20 (483/433/333)	36/29/25 (600/483/417)	47/39/36 (783/650/600)	56/48/42 (933/800/700)
External Pressure (*1)			Pa	120 (70)	120 (70)	120 (70)
Motor Output			W	250	300	420
Connections			Flare-Nut Connection (with Flare Nuts)			
Refrigerant Piping	Liquid Line	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas Line	mm	Φ15.88	Φ15.88	Φ15.88	Φ15.88
	Condensate Drain		VP25	VP25	VP25	VP25
Approximate Packing Measurement			m ³	0.49	0.57	0.57

Receiver kit **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
7.0°C DB
Outdoor Air Inlet Temperature: 6.0°C WB
Piping Length: 7.5 metre
Piping Lift: 0 metre

2. The sound pressure level is based on following conditions. 1.5 metre Beneath the Unit. With Discharge Duct (2.0 metre) and Return Duct (1.0 metre). Voltage of the power source for the indoor fan motor is 220V. In case of the power source of 240V, the sound pressure level increases by about 1 or 2dB(A). The data in the table above was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

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



WALL MOUNTED TYPE



FEATURES AND BENEFITS



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.



To ensure quieter environment

"External Expansion Valve Type" are suitable for hotel rooms or residences where background noise is lower. To minimise the continuous refrigerant running noise, You can install the expansion valve away from the unit.



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.

GENERAL DATA & ACCESSORIES

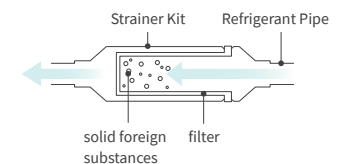
Type			Expansion Valve built-in type								External Expansion Valve type		
Model			RPK-0.8 FSN4M	RPK-1.0 FSN4M	RPK-1.5 FSN4M	RPK-2.0 FSN4M	RPK-2.5 FSN4M	RPK-3.0 FSN4M	RPK-4.0 FSN4M		RPK-0.8 FSNH4M	RPK-1.0 FSNH4M	RPK-1.5 FSNH4M
Indoor Unit Power Supply			AC 1Φ, [220-240V/50Hz] [220V/60Hz]								AC 1Φ, [220-240V/50Hz] [220V/60Hz]		
Nominal Capacity	Cooling	kW	2.2	2.8	4.0	5.6	7.1	8.0	11.2		2.2	2.8	4.0
	Heating	kW	2.5	3.2	4.8	6.3	8.5	9.0	12.5		2.5	3.2	4.8
Sound Pressure Level	(Hi2/Hi/Me/Lo)	dB(A)	39/35/32/30	39/35/32/30	46/40/36/33	40/37/34/31	45/42/38/35	47/44/40/35	51/48/44/39		39/35/32/30	39/35/32/30	46/40/36/33
Colour			White								White		
Outer Dimension	(H×W×D)	mm	300×790×230	300×790×230	300×900×230	300×1,100×260	300×1,100×260	300×1,100×260	300×1,100×260		300×790×230	300×790×230	300×900×230
Net Weight		kg	10	10	11	14.5	15	15	15		10	10	11
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A		R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi2/Hi/Me/Lo)	m³/min	10/8/7/6.5	10/8/7/6.5	14/11/9/7.5	14.5/13/11/9.5	18.5/16.5/14/12	20/17.5/15.5/12.5	23/20/17.5/14.5		10/8/7/6.5	10/8/7/6.5	14/11/9/7.5
Motor			38	38	38	38	38	38	38		38	38	38
Connections			Flare-Nut Connection (with Flare Nuts)								Flare-Nut Connection (with Flare Nuts)		
Refrigerant Piping Diameter	Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52		Φ6.35	Φ6.35	Φ6.35
	Gas Line	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88		Φ12.7	Φ12.7	Φ12.7
Condensate Drain			VP16	VP16	VP16	VP16	VP16	VP16	VP16		VP16	VP16	VP16
Approximate Packing Volume		m³	0.09	0.09	0.11	0.14	0.14	0.14	0.14		0.09	0.09	0.11
Accessory included			Wall Mounting Bracket								Wall Mounting Bracket		

Receiver kit	PC-ALHZ1
FSN4M: 0.8-2.0 (HP Class)	MSF-NP63A1
Strainer kit	MSF-NP112A1
FSN4M: 2.5-4.0 (HP Class)	
FSNH4M: 0.8-1.5 (HP Class)	MSF-NP36AH1
External Expansion Valve Kit	EV-1.5N1

NOTES:

- The cooling and heating capacities above show the maximum capacities when the outdoor and indoor temperature are under the following conditions.
Cooling Operation Conditions
Indoor Air Inlet Temperature: 27.0°C DB
19.0°C WB
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
- The sound pressure level is based on following conditions.
1.0 metre Beneath the Unit.
1.0 metre from Discharge Grille.
The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.
When bottom air inlet is adopted, sound pressure will increase according to factors such as installation mode and the room structure.
- RPK-0.6FSN4M & RPK-0.6FSN4HM cannot be connected to HNRQ series.
Please refer to the technical catalogue for the details.

STRAINER KIT



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



FLOOR/CEILING CONVERTIBLE TYPE



FEATURES AND BENEFITS



Adapts to both floor and ceiling

[[CEILING USE]]

Supplies air to a wide area.
High ceiling use capability.

[[FLOOR USE]]

Smaller footprint: Only 230mm in depth.
Suitable for installation beneath a window thanks to the 680mm height.



New air-intake design

Equipped with air-intakes, the unit connects with ventilations such as a Total Heat Exchanger using a duct, providing better interior air quality.

GENERAL DATA & ACCESSORIES

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

Receiver kit PC-ALHZ1

NOTES:

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

Cooling Operation Conditions

Indoor Air Inlet Temperature: 27.0°C DB

19.0°C WB

Outdoor Air Inlet Temperature: 35.0°C DB

Piping Length: 7.5 metre

Piping Lift: 0 metre

Heating Operation Conditions

Indoor Air Inlet Temperature: 20.0°C DB

Outdoor Air Inlet Temperature: 7.0°C DB

6.0°C WB

Piping Length: 7.5 metre

Piping Lift: 0 metre

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

1.0 metre Beneath the unit.

1.0 metre from Discharge grille.

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

When bottom air inlet is adopted, sound pressure will increase according to factors such as installation mode and the room structure.



CEILING SUSPENDED TYPE



FEATURES AND BENEFITS

Adaptability



1) Wide Detection area of motion sensor (SOR-NEP)

(Optional part) to achieve better energy-saving



2) Auto louvre

Softens the discomfort by temperature irregularity and cold draft

Design Flexibility



Suitable for high ceiling space

Thanks to 5.6m cooling air blow down

GENERAL DATA & ACCESSORIES

Model			RPC-1.5FSN3	RPC-2.0FSN3	RPC-2.5FSN3	RPC-3.0FSN3	RPC-4.0FSN3	RPC-5.0FSN3	RPC-6.0FSN3
Indoor Unit Power Supply			AC 1Φ, [220-240V/50Hz] [220V/60Hz]						
Nominal Capacity	Cooling	kW	4.0	5.6	7.1	8.0	11.2	14.0	16.0
	Heating	kW	4.8	6.3	8.5	9.0	12.5	16.0	18.0
Sound Pressure Level	(Hi2/Hi/Me/Lo)	dB(A)	37/35/31/28	38/35/31/28	38/35/31/28	40/37/33/29	44/42/37/32	48/45/41/35	49/47/42/36
Colour			Neutral White						
Outer Dimension (H×W×D)			mm	235×960×690	235×960×690	235×1,270×690	235×1,270×690	235×1,580×690	235×1,580×690
Net Weight			kg	26	27	35	35	41	41
Refrigerant				R410A	R410A	R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi2/Hi/Me/Lo)	m³/min	15/13/11/9	15/13/11/9	19/16.5/14/11.5	21/18.5/15.5/12.5	30/26.5/22/17	35/31/25.5/20	37/32.5/27/21
Connections			Flare-Nut Connection (with Flare Nuts)						
Refrigerant Piping Diameter	Liquid Line	mm	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas Line	mm	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88
Condensate Drain				VP20	VP20	VP20	VP20	VP20	VP20
Approximate Packing Volume			m³	0.23	0.23	0.31	0.31	0.38	0.38

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

NOTES:

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

Cooling Operation Conditions

Indoor Air Inlet Temperature: 27.0°C DB

Outdoor Air Inlet Temperature: 19.0°C WB

Piping Length: 7.5 metre

Piping Lift: 0 metre

Heating Operation Conditions

Indoor Air Inlet Temperature: 20.0°C DB

Outdoor Air Inlet Temperature: 7.0°C DB

Piping Length: 7.5 metre

Piping Lift: 0 metre

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

1.0 metre Beneath the unit.

1.0 metre from Discharge grille.

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

When bottom air inlet is adopted, sound pressure will increase according to factors such as installation mode and the room structure.



4-WAY CASSETTE TYPE [RCI-FSN3]



FEATURES AND BENEFITS



Adaptability

- 1) Wide Detection area of motion sensor
- 2) Control air flow with individual four-way louvers



Comfort

- Setback temperature control available, leading to better operation.
- GentleCool control to ensure you are not bothered by cold draft



Design Flexibility

- 1) Used in both narrow ceiling cavity, and with high ceiling
- 2) Standard drain pump with 850mm lift
- 3) Round ducts can be attached directly
- 4) The height of the space for installing the unit can be fine-tuned

GENERAL DATA & ACCESSORIES

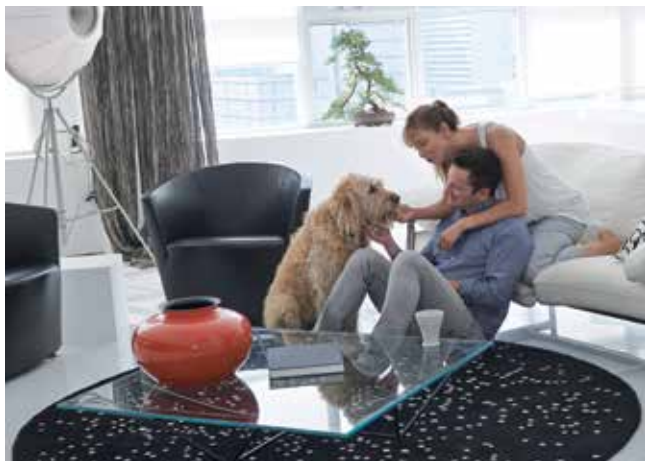
Model			RCI-1.0FSN3	RCI-1.5FSN3	RCI-2.0FSN3	RCI-2.5FSN3	RCI-3.0FSN3	RCI-4.0FSN3	RCI-5.0FSN3	RCI-6.0FSN3
Indoor Unit Power Supply			AC 1Φ, [220-240V/50Hz] [220V/60Hz]							
Nominal Capacity	Cooling	kW	2.8	4.0	5.6	7.1	8.0	11.2	14.0	16.0
	Heating	kW	3.2	4.8	6.3	8.5	9.0	12.5	16.0	18.0
Sound Pressure Level	(Hi2/Hi/Me/Lo)	dB(A)	33/30/28/27	35/31/30/27	37/32/30/27	42/36/32/28	42/36/32/28	48/43/39/33	48/45/40/35	48/46/41/37
Outer Dimension	(H×W×D)	mm	248×840×840	248×840×840	248×840×840	248×840×840	298×840×840	298×840×840	298×840×840	298×840×840
Net Weight		kg	20	21	21	22	26	26	26	26
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi2/Hi/Me/Lo)	m³/min	15/13/11/9	21/17/14/11	22/17/14/11	27/23/18/14	27/23/18/14	37/31/24/20	37/33/26/21	37/35/28/22
Connections			Flare-Nut Connection (with flare Nuts)							
Refrigerant Piping Diameter	Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas Line	mm	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88
Condensate Drain			VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25
Approximate Packing Volume			0.21	0.21	0.21	0.21	0.25	0.25	0.25	0.25

Adaptable Panel Model		P-AP160NA1 (without Motion Sensor)	P-AP160NAE (with Motion Sensor)
Colour		Neutral White	
Outer Dimension (H×W×D)	mm	37×950×950	
Net Weight	kg	6.5	
Approximate Packing Volume	m³	0.10	

Decoration panel	With Motion Sensor	P-AP160NAE	3-Way Outlet Parts Set		PI-160LS1
	Without Motion Sensor	P-AP160NA1	T-Pipe Connection Kit		TKCI-160K
Receiver kit		PC-ALH3	Kit for Deodorant Filter & Filter set	1.0-2.5 (HP Class)	F-71L-D1
				3.0-6.0 (HP Class)	F-160L-D1
Duct Adapter		PD-75A	Kit for Deodorant Filter & Filter Box		B-160H2
Fresh Air Intake Kit		OACI-160K2	Antibacterial Long-life Filter		F-160L-K

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
 Outdoor Air Inlet Temperature: 35.0°C DB
 Piping Length: 7.5 metre
 Piping Lift: 0 metre
 Heating Operation Conditions
 Indoor Air Inlet Temperature: 20.0°C DB
 Outdoor Air Inlet Temperature: 7.0°C DB
 Piping Length: 7.5 metre
 Piping Lift: 0 metre
2. The sound pressure level is based on following conditions.
 1.5 metre Beneath the unit.
 The data in the table above was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.



4-WAY CASSETTE TYPE [RCI-FSKDNQ]



FEATURES AND BENEFITS

Adaptability



1) Wide Detection area of motion sensor (PS-MSK2)

(Optional part) to achieve better energy-saving



2) Control air flow with individual four air direction

More comfortable air conditioning can be achieved along each zone requirement

Design Flexibility



Suitable for high ceiling space

Thanks to cooling air blow up to 5.5m down

GENERAL DATA & ACCESSORIES

Model			RCI-1.0FSKDNQ	RCI-1.5FSKDNQ	RCI-2.0FSKDNQ	RCI-2.5FSKDNQ	RCI-3.0FSKDNQ	RCI-4.0FSKDNQ	RCI-5.0FSKDNQ	RCI-6.0FSKDNQ
Indoor Unit Power Supply			AC 1Φ, [220-240V/50Hz] [220V/60Hz]							
Nominal Capacity	Cooling	kW	2.8	4.0	5.6	7.1	8.0	11.2	14.0	16.0
	Heating	kW	3.2	4.8	6.3	8.5	9.0	12.5	16.0	18.0
Sound Pressure Level	(Hi2/Hi/Me/Lo)	dB(A)	33/30/28/27	35/31/30/27	37/32/30/27	42/36/32/28	42/36/32/28	48/43/39/33	48/45/40/35	48/46/41/37
Outer Dimension	(H×W×D)	mm	238×840×840	238×840×840	238×840×840	238×840×840	288×840×840	288×840×840	288×840×840	288×840×840
Net Weight		kg	20	21	21	22	26	26	26	26
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi2/Hi/Me/Lo)	m³/min	15/13/11/9	21/17/14/11	22/17/14/11	27/23/18/14	27/23/18/14	37/31/24/20	37/33/26/21	37/35/28/22
Connections			Flare-Nut Connection (with flare Nuts)							
Refrigerant Piping Diameter	Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas Line	mm	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88
Condensate Drain			VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25
Approximate Packing Volume			m³	0.21	0.21	0.21	0.21	0.25	0.25	0.25

Adaptable Panel Model		Included (without Motion Sensor)
Colour		Neutral White
Outer Dimension (H×W×D)	mm	40×950×950
Net Weight	kg	6.5
Approximate Packing Volume	m³	0.10

Decoration Panel	- (Standard)
Receiver Kit	PC-ALH3
Motion Sensor	PS-MSK2
Condensate Drain Pump	- (Standard)

NOTE:

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

Cooling Operation Conditions

Indoor Air Inlet Temperature: 27.0°C DB (80.0°F DB)
19.0°C WB (66.2°F WB)

Outdoor Air Inlet Temperature: 35.0°C DB (95.0°F DB)

Piping Length: 7.5 metre

Piping Lift: 0 metre

Heating Operation Conditions

Indoor Air Inlet Temperature: 20.0°C DB (68.0°F DB)
7.0°C DB (45.0°F DB)

Outdoor Air Inlet Temperature: 6.0°C WB (43.0°F WB)

Piping Length: 7.5 metre

Piping Lift: 0 metre

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

1.5 metre Beneath the unit.

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

3. Decoration panel is included.



4-WAY CASSETTE COMPACT TYPE



FEATURES AND BENEFITS

Adaptability



1) Wide Detection area of motion sensor (SOR-NEC)

(Optional part) to achieve better energy-saving



2) Top-class silent operation

As quiet as gentle breeze

Design Flexibility



Compact

Adaptation to 600×600mm ceilings

GENERAL DATA & ACCESSORIES

Model			RCIM-0.8FSN4	RCIM-1.0FSN4	RCIM-1.5FSN4	RCIM-2.0FSN4	RCIM-2.5FSN4
Indoor Unit Power Supply			AC 1Φ, [230V/50Hz] [220-240V/50Hz] [220V/60Hz]				
Nominal Capacity	Cooling	kW	2.2	2.8	4.0	5.6	7.1
	Heating	kW	2.5	3.2	4.8	6.3	8.5
Sound Pressure Level	(Hi2/Hi/Me/Lo)	dB(A)	36/33/29/24.5	38/34/30/24.5	41/37/33/27.5	45/39/35/31	47/43/39/35
Outer Dimension	(H×W×D)	mm	285×570×570	285×570×570	285×570×570	285×570×570	285×570×570
Net Weight		kg	16	16	16	17	17
Refrigerant			R410A	R410A	R410A	R410A	R410A
Indoor Fan Air Flow Rate	(Hi2/Hi/Me/Lo)	m ³ /min	11/9.5/8/6	12/10/8.5/6	13/11/9.5/7	15/12/10/8	16/14/12/10
Connections			Flare-Nut Connection (with Flare Nuts)				
Refrigerant Piping Diameter	Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.52
	Gas Line	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88
Condensate Drain			VP25	VP25	VP25	VP25	VP25
Approximate Packing Volume			0.13	0.13	0.13	0.13	0.13

Adaptable Panel Model		P-AP56NAM (without Motion Sensor)
Colour		Neutral White
Outer Dimension (H×W×D)	mm	30×620×620
Net Weight	kg	3.0
Approximate Packing Volume	m ³	0.04

Decoration panel	P-AP56NAM
Motion Sensor	SOR-NEC
Receiver kit	PC-ALHC1
Duct Adapter	PD-75C

NOTES:

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

Cooling Operation Conditions

Indoor Air Inlet Temperature: 27.0°C DB

19.0°C WB

Outdoor Air Inlet Temperature: 35.0°C DB

Piping Length: 7.5 metre

Piping Lift: 0 metre

Heating Operation Conditions

Indoor Air Inlet Temperature: 20.0°C DB

Outdoor Air Inlet Temperature: 7.0°C DB

6.0°C WB

Piping Length: 7.5 metre

Piping Lift: 0 metre

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

1.5 metre Beneath the unit.

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

3. RCIM-0.6FSN4 cannot be connected to HNRQ series.

Please refer to the technical catalogue for the details.



2-WAY CASSETTE TYPE



FEATURES AND BENEFITS



Adaptability

- 1) Wide Detection area of motion sensor (SOR-NED)
(Optional part) to achieve better energy-saving
- 2) Control air flow with individual four air direction



Comfort

- Setback temperature control available, leading to better operation.
- GentleCool control to ensure you are not bothered by cold draft



Design Flexibility

Suitable for high ceiling space.
Thanks to 4.6m cooling air blow down.

GENERAL DATA & ACCESSORIES

Model			RCD-0.8FSN3	RCD-1.0FSN3	RCD-1.5FSN3	RCD-2.0FSN3	RCD-2.5FSN3	RCD-3.0FSN3	RCD-4.0FSN3	RCD-5.0FSN3	RCD-6.0FSN3
Indoor Unit Power Supply			AC 1Φ, [220-240V/50Hz] [220V/60Hz]								
Nominal Capacity	Cooling	kW	2.2	2.8	4.0	5.6	7.1	8.0	11.2	14.0	16.0
	Heating	kW	2.5	3.2	4.8	6.3	8.5	9.0	12.5	16.0	18.0
Sound Pressure Level	(Hi2/Hi/Me/Lo)	dB(A)	30/29/28/27	31/29/28/27	37/34/31/30	39/36/33/30	42/39/36/33	45/42/38/33	43/40/37/34	47/44/41/35	48/45/42/39
Outer Dimension (H×W×D)			298×860×630 298×860×630 298×860×630 298×860×630 298×860×630 298×860×630 298×1,420×630 298×1,420×630 298×1,420×630								
Net Weight			23 23 25 25 25 25 39 39 39								
Refrigerant			R410A R410A R410A R410A R410A R410A R410A R410A R410A								
Indoor Fan Air Flow Rate	(Hi2/Hi/Me/Lo)	m ³ /min	10/9/7.5/6.5	11/9.5/8.5/7	15/13/11.5/10	16.5/14.5/12.5/10.5	18.5/16.5/14.5/12.5	21/18.5/16/12.5	30/26.5/23/20	35/31/27/21	37/32.5/28.5/24
Connections			Flare-Nut Connection (with Flare Nuts)								
Refrigerant Piping Diameter	Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas Line	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88
Condensate Drain			VP25 VP25 VP25 VP25 VP25 VP25 VP25 VP25 VP25								
Approximate Packing Volume			0.24 0.24 0.24 0.24 0.24 0.24 0.36 0.36 0.36								

Adaptable Panel Model		P-AP90DNA (for RCD-[0.8-3.0]FSN3)	P-AP160DNA (for RCD-[4.0-6.0]FSN3)
Colour		Neutral White	Neutral White
Outer Dimension (H×W×D)		30×1,100×710	30×1,660×710
Net Weight		7.5	10.5
Approximate Packing Volume		0.13	0.20

Decoration panel	0.8-3.0 (HP Class)	P-AP90DNA
	4.0-6.0 (HP Class)	P-AP160DNA
Receiver kit		PC-ALHD1
Motion Sensor		SOR-NED
Duct Adapter		PD-150D

Antibacterial Long-life Filter	0.8-3.0 (HP Class)	F-90MD-K1
	4.0-6.0 (HP Class)	F-160MD-K1
Filter Box	0.8-3.0 (HP Class)	B-90HD
	4.0-6.0 (HP Class)	B-160HD

NOTES:

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

Cooling Operation Conditions	Heating Operation Conditions
Indoor Air Inlet Temperature: 27.0°C DB	Indoor Air Inlet Temperature: 20.0°C DB
Outdoor Air Inlet Temperature: 19.0°C WB	Outdoor Air Inlet Temperature: 7.0°C DB
Outdoor Air Inlet Temperature: 35.0°C DB	Outdoor Air Inlet Temperature: 6.0°C WB
Piping Length: 7.5 metre	Piping Length: 7.5 metre
Piping Lift: 0 metre	Piping Lift: 0 metre
2. The sound pressure level is based on following conditions.
1.5 metre Beneath the unit.
The data in the table above was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.



1-WAY CASSETTE TYPE



FEATURES AND BENEFITS

Adaptability



1) Wide Detection area of motion sensor (SOR-NES)

(Optional part) to achieve better energy-saving



2) Quiet operation

New design in fan inlet and fan resulted in the low sound pressure

Design Flexibility



3 installation types selectable

Corner type (standard)
Clipped ceiling (one-way) type
Clipped ceiling (two-way) type

GENERAL DATA & ACCESSORIES

Model			RCS-0.8FSN	RCS-1.0FSN	RCS-1.5FSN	RCS-2.0FSN	RCS-2.5FSN	RCS-3.0FSN
Indoor Unit Power Supply			AC 1Φ, [220-240V/50Hz] [230V/50Hz] [220V/60Hz]					
Nominal Capacity	Cooling	kW	2.2	2.8	4.0	5.6	7.1	8.0
	Heating	kW	2.5	3.2	4.8	6.3	8.5	9.0
Sound Pressure Level	(Hi2/Hi/Me/Lo)	dB(A)	34/32/29/27	36/34/31/28	40/37/33/31	42/38/35/31	43/39/36/32	43/40/37/33
Outer Dimension	(H×W×D)	mm	235×900×710	235×900×710	235×900×710	235×900×710	235×1,210×710	235×1,210×710
Net Weight		kg	25	25	26	26	33	33
Refrigerant			R410A					
Indoor Fan Air Flow Rate	(Hi2/Hi/Me/Lo)	m ³ /min	8.5/7.5/6.5/6	9.5/8.5/7.5/6.5	13/11.5/10/8.5	14.5/13/11/9.5	18.5/16.5/14.5/12.5	20/17.5/15.5/13
Connections			Flare-Nut Connection (with Flare Nuts)					
Refrigerant Piping Diameter	Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52
	Gas Line	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88
Condensate Drain			VP25					
Approximate Packing Volume			0.25	0.25	0.25	0.25	0.32	0.32

Adaptable Panel Model			P-AP36CNA (for RCS-[0.8-1.0]FSN)	P-AP56CNA (for RCS-[1.5-2.0]FSN)	P-AP80CNA (for RCS-[2.5-3.0]FSN)
Colour			Neutral White		Neutral White
Outer Dimension (H×W×D)			35×1,100×800	35×1,100×800	35×1,410×800
Net Weight			4.5	4.5	6.0
Approximate Packing Volume			0.098	0.098	0.125

Decoration panel	0.8-1.0 (HP Class)	P-AP36CNQ
	1.5-2.0 (HP Class)	P-AP56CNA
	2.5-3.0 (HP Class)	P-AP80CNA
Receiver kit		PC-ALHS1
Motion Sensor		SOR-NES
Duct Adapter		PD-100

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

NOTES:

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

Cooling Operation Conditions

Indoor Air Inlet Temperature: 27.0°C DB

19.0°C WB

Outdoor Air Inlet Temperature: 35.0°C DB

Piping Length: 7.5 metre

Piping Lift: 0 metre

Heating Operation Conditions

Indoor Air Inlet Temperature: 20.0°C DB

Outdoor Air Inlet Temperature: 7.0°C DB

6.0°C WB

Piping Length: 7.5 metre

Piping Lift: 0 metre

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

1.5 metre Beneath the unit.

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



Control system

Whether you are at work or play, SET FREE mini allows you to have control over your living environment. By providing control systems that are easy to understand and use, we enable you to easily and accurately achieve optimal air conditioning management in a whole range of living spaces.

INDEX

34	LINE UP OVERVIEW -INDIVIDUAL CONTROLLERS
35	INDIVIDUAL CONTROLLERS
39	OTHERS
40	LINE UP OVERVIEW -CENTRALISED CONTROLLERS
41	CENTRALISED CONTROLLERS
43	AIRCLOUD PRO

LINE UP OVERVIEW

COMPARING INDIVIDUAL CONTROLLERS

		WIRED REMOTE CONTROLLER	SIMPLIFIED WIRED REMOTE CONTROLLER	ADVANCED WIRELESS REMOTE CONTROLLER	ADVANCED WIRED REMOTE CONTROLLER
					
		HCWA10NEGQ	PC-ARH1	PC-AWR	PC-ARF1
Connection Capacity	RC Groups	1	1	-	1
	Indoor units (*1)	16	16	-	16
Setting	Temperature Setting Rate (*2)	0.5°C/1.0°C/1.0°F	0.5°C/1.0°C/1.0°F	0.5°C/1.0°C/1.0°F	0.5°C/1.0°C/1.0°F
	Indoor Fan Speed (*2) (*3)	3/4/6 taps	3/4/6 taps	3/4/6 taps	3/4/6 taps
	Louvre Direction (*2)	●	●	●	●
	Individual Louvre Setting (*2)	●	-	-	●
	Remote Control Primary-Secondary Setting	-	●	-	●
	Function Selection				
	Automatic Restart with Eco-operation	-	-	-	●
	Automatic Reset Temperature (Cooling)	●	●	-	●
	Temperature Indication (*4)	●	-	-	●
	Filter Sign	●	-	-	●
Service & Installation	Filter Sign Reset	●	-	●	●
	Louvre Open/Close	-	-	-	●
	Room Name Setting	-	-	-	●
	Alarm Sign	●	●	-	●
	Identifying indoor units side-by-side	-	-	●	-
	Screen Adjustment	-	-	-	●
	Language	-	-	-	●
	Temperature Unit-°C/°F	●	● (*5)	●	●
	Adjusting Brightness of Run Indicator	-	-	-	●
	Sensor Condition Check	●	-	-	●
	Model Display (*2)	-	-	-	●
	Indoor/Outdoor PCB Check	-	-	-	●
	Alarm History Display	●	-	-	●
	Operation Lock/Set	● (*6)	-	-	●
	Lower Limit for Cooling Operation	●	●	-	●
	Upper Limit for Heating Operation	●	●	-	●
Management	Built-in Timer (On/Off)	●	-	●	●
	Adjusting Date/Time Setting	●	-	-	●
	Automatic OFF timer setting	-	●	-	●
	Weekly Schedule	●	-	-	●
	Settable Timer Operation Times (Per Day)	1	-	-	5
	Holiday Setting	-	-	-	●
	Schedule On/Off	-	-	-	●
Power Saving	Power Saving with Motion Sensor	-	-	-	●
	Outdoor Unit capacity control				
	Peak cut control	-	-	-	●
	moderate control	-	-	-	●
	Indoor Unit				
	Indoor Unit Address	-	-	-	●
	Rotation Control Indoor Air Temperature difference	-	-	-	●
MENU	Automatic Fan Operation	-	-	-	●
	ODU silent mode	-	-	-	●
	Quick Function	-	-	-	●
	Comfort setting Control Cool Air	-	-	-	●
	Saving/ODU Noise Reduction Schedule	-	-	-	●
	Daylight Saving Time	-	-	-	●
	Power Consumption visualisation	-	-	-	●

(*1) All 16 indoor units need to be connected with transition wire.

(*2) Availability depends on the indoor unit type connected to the each individual controllers. Please consult your distributors for more details.

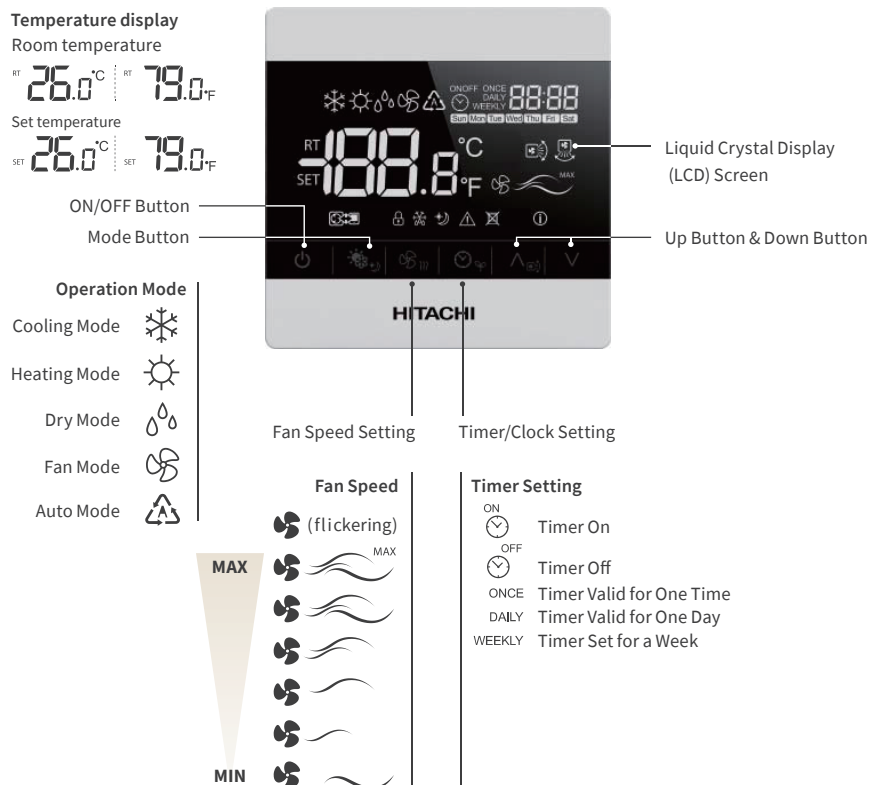
(*3) 6 taps is available for RPIZ-HNDTSQ only.

(*4) Indicated temperature can be selected from two options, the thermistor in the indoor unit or in the individual controller.

(*5) Please contact your distributor in case temperature unit needs to be changed from °C to °F.

(*6) Only "bulk operation lock" available

WIRED REMOTE CONTROLLER HCWA10NEGQ



SPECIFICATIONS

Outer Dimensions (H×W×D)

(mm) 88.0×88.0×15.5

FUNCTIONS

Setting	Run/Stop
	Operation Mode
	Auto Mode
	Temperature Setting Rate 0.5°C/1.0°C/1.0°F
	Temperature Unit °C/°F
Service	Fan Speed 3/4/6 taps
	Louvre Direction
	Individual Louvre Setting
	Filter Sign
	Filter Sign Reset
Schedule & Management	Alarm Sign
	Alarm Sign History
	Daily Timer
	Weekly Timer
	Main-sub Control
	Operation Lock

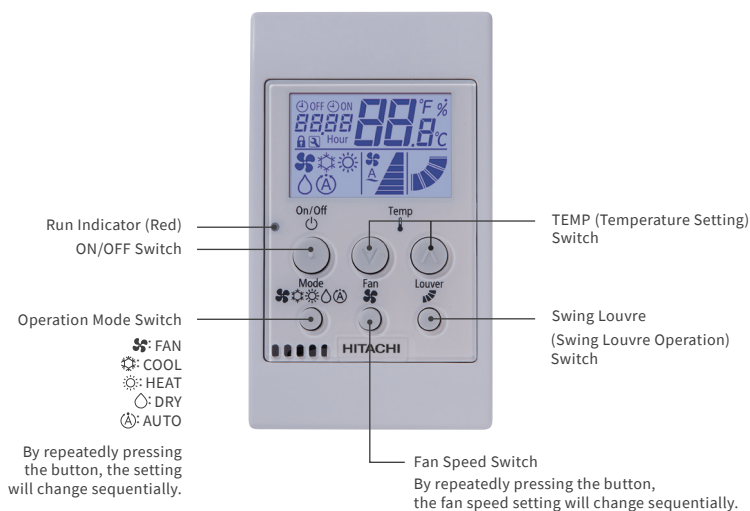
Notes:

1. Fan Speed Taps setting unit availability varies with the indoor unit. Please check each technical catalogue in advance.

2. Initial Setting of temperature display is "Set temperature" display only. Please contact your dealer to display room temperature.

3. HCWA10NEGQ can be connected to HNRQ series only, not to Top Flow VRF.
Please refer to the technical catalogue for the details.

SIMPLIFIED WIRED REMOTE CONTROLLER PC-ARH1



SPECIFICATIONS

Outer Dimensions (H×W×D)

(mm) 120.0×70.0×17.0

FUNCTIONS

Setting	Run/Stop
	Operation Mode
	Auto Mode Setting
	Temperature Setting
	Temperature setting rate 0.5°C/1.0°C/1.0°F
Schedule & Management	Back-light screen
	Fan Speed 3/4/6 taps
	Louvre Direction
	Filter Sign
	Filter Sign Reset
Service	Alarm Sign
	Alarm Sign History
	Daily Timer
	Weekly Timer
	Main-sub Control
	Operation Lock

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

WIRELESS REMOTE CONTROLLER PC-AWR



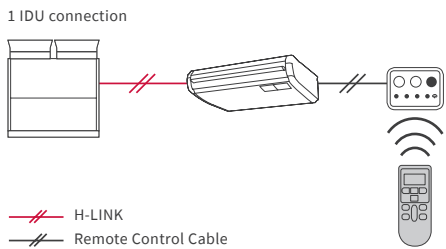
SPECIFICATIONS

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

FUNCTIONS

Setting	Run/Stop
	Operation Mode
	Auto Mode Setting
	Temperature Setting
	Temperature Setting Rate_0.5°C/1.0°C/1.0°F
	Fan Speed_3/4/6 Taps
	Louver Direction
Service	Filter Sign Reset
	Identifying indoor units side-by-side
	Temperature Unit_°C/°F
Schedule	Built-in Timer (On/Off)

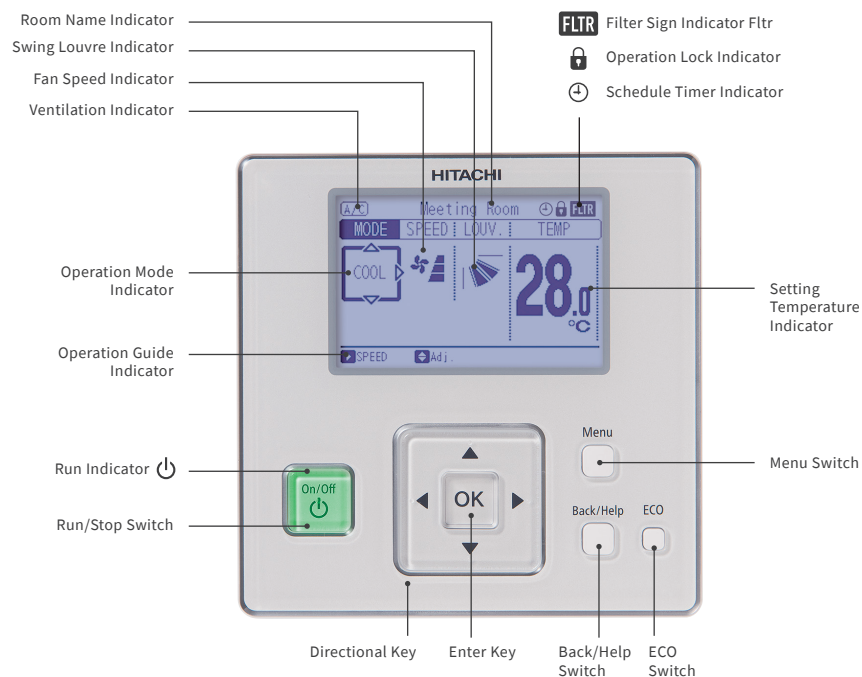
EXAMPLE OF SYSTEM CONFIGURATION



RECEIVER KIT FOR WIRELESS REMOTE CONTROLLER

Model	PC-ALHZ1	PC-ALHP1	PC-ALH3	PC-ALHC1	PC-ALHD1	PC-ALHS1
For indoor unit model	Ducted Wall Mounted Floor/Ceiling Convertible	Ceiling Suspended	4-Way Cassette	4-Way Cassette Compact	2-Way Cassette	1-Way Cassette

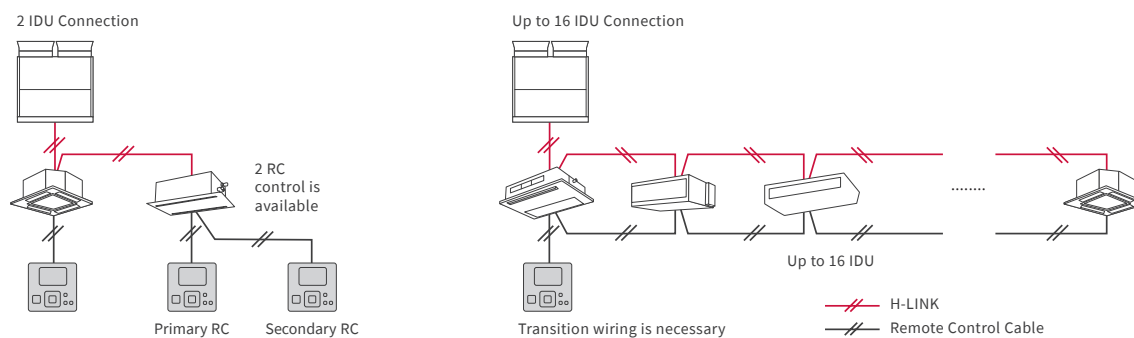
ADVANCED WIRED REMOTE CONTROLLER PC-ARF1



SPECIFICATIONS

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

EXAMPLE OF SYSTEM CONFIGURATION



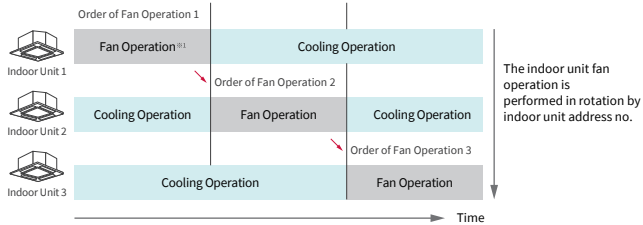
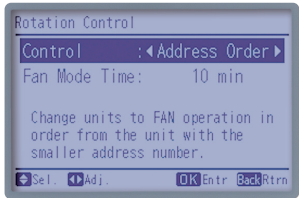
FUNCTIONS

Setting	Run/Stop	Service	Filter Sign	Power-Saving	With Motion Sensor Kit
	Operation Mode		Filter Sign Reset		ODU Capacity Control
	Auto Mode Setting		Louvre Open/Close		• Peak-cut Control
	Temperature Setting		Room Name Setting		• Moderate Control
	Temperature Setting Rate_0.5°C/1.0°C/1.0°F		Alarm Sign		Indoor Unit Rotation Control
	Fan Speed_3/4/6 taps	Screen	Alarm History Display	Schedule	Automatic Fan Operation
	Louvre Direction		Screen Adjustment		Auto Recovery of Temperature
	Individual Louvre Setting		Temperature Unit_°C/°F		Upper Limit for Heating Operation
	Remote Control Primary-Secondary Setting	Management	Adjusting Brightness of Run Indicator		Lower Limit for Cooling Operation
	Function Selection		Operation Lock/Set		Weekly Schedule
			Main/Sub Control		Settable Timer Operation Times (per day): 5
			Built-in-Timer (On/Off)		Holiday Setting
			Adjusting Date/Time Setting		Schedule On/Off
			Thermometer Indication		ODU Noise Reduction Schedule

POWER-SAVING FUNCTION

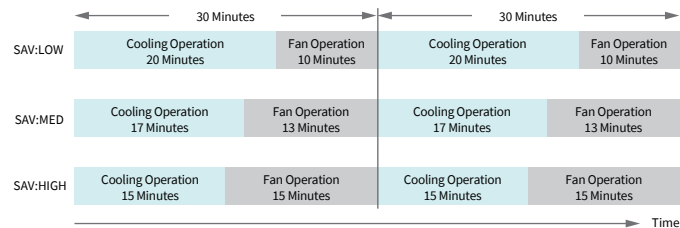
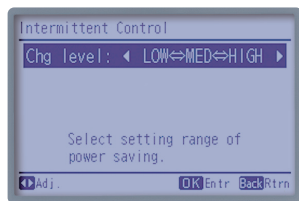
Indoor Unit Rotation Control

Switch multiple indoor units operation to “FAN” mode, one by one, in order.



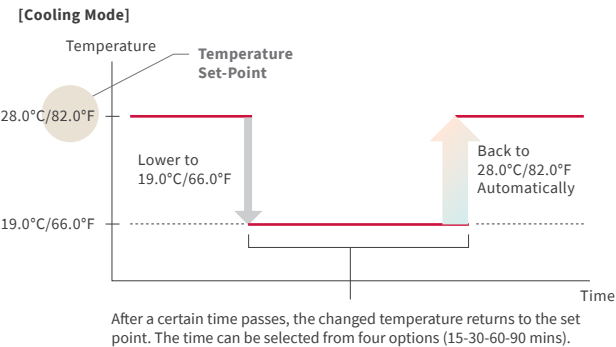
Automatic fan operation

Alternate between “heating/cooling” and “FAN” at a certain interval.



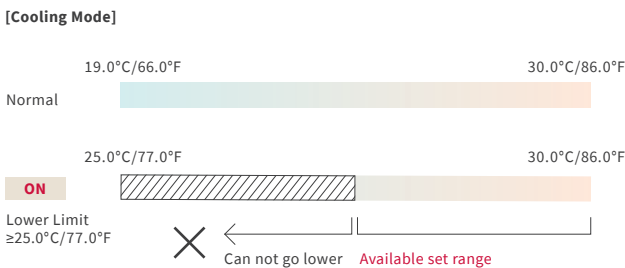
Auto-Recovery of Temperature

Reducing excessive energy consumption thanks to automatic temperature reset.



Temperature Range Setting

Prevent wasteful power consumption due to excessive use of cooling/heating mode.

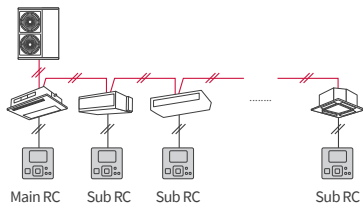


ADAPTABILITY

Improved main-sub RC control

By one main RC, you can control the multiple IDUs which are controlled by sub RC.

- * Operation Mode
- * Setting Temperature



Temperature Setting Rate

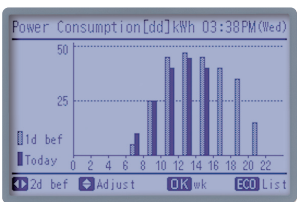
Setting available in 0.5°C/1.0°C or 1.0°F.



Power consumption visualisation

Check power consumption in the unit of day, week, and year.

※ ODU compressor only



BMS ADAPTER for BACnet® **HC-A64BNP1**

Control up to 64 Indoor Units



SPECIFICATIONS

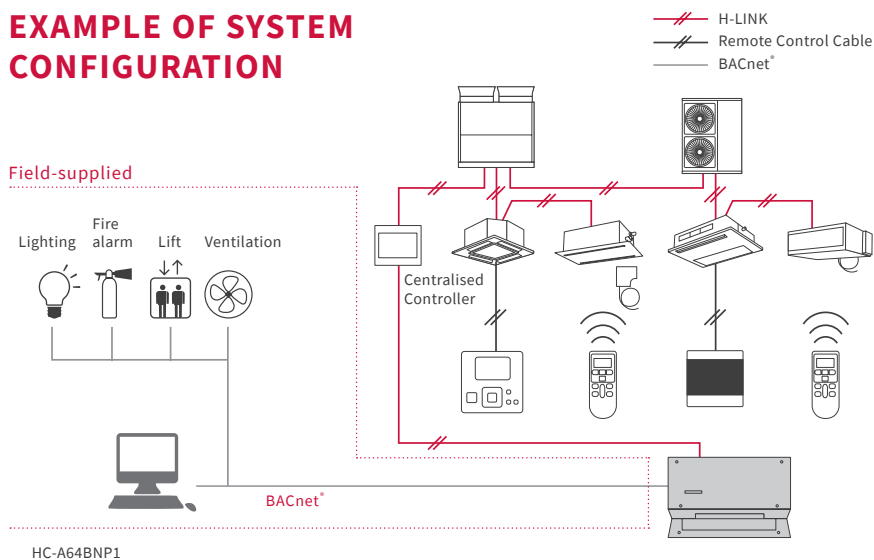
Outer Dimensions (H×W×D)

(mm) 68.0×240.0×154.0

FUNCTIONS

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

EXAMPLE OF SYSTEM CONFIGURATION



LINE UP OVERVIEW

CENTRALISED CONTROLLERS - COMPARISON CHART

		CENTRAL STATION mini	CENTRAL STATION EZ	CENTRAL STATION EX
				
		PSC-A32MN	PSC-A64GT	PSC-A128EX
Capacity comparison	RC group	32	64	2,560 (*1)
	Group	4	64	2,048 (*1)
	Block	2/4/8/16	4	512 (*2)
	Area	-	-	512 (*2)
	Indoor unit	160	160	2,560 (*1)
	Outdoor unit	64	64	1,024 (*1)
Building scale		Small	Medium	Large
Operation		Touch screen	Touch screen	Touch screen
Display	Operation panel size options	4	2	7
	Layout	-	-	●
	List options	-	-	3
Operation unit	All together	●	●	●
	By layout	-	-	●
	By area	-	-	●
	By block	●	●	●
	By group	-	-	●
	By RC group	●	●	-
Control Function	By indoor unit	-	-	●
	Main 5 functions (*5)	●	●	●
	Individual controller lock	●	△ (*3)	●
	Filter sign reset	●	●	●
	Outdoor unit capacity control	△ (*4)	-	●
	Outdoor unit noise control	-	-	●
Monitor Function	Main 5 functions (*5)	●	●	●
	Individual controller lock	●	●	●
	Alarm status & code	●	●	●
	Filter sign	●	●	●
	Air inlet temperature of indoor unit	●	●	●
	Air inlet temperature of outdoor unit	●	●	●
Schedule Function	Weekly	●	●	●
	Setting times per day	10	10	16
	Special day setting	-	-	5
	Annual/Summer/Winter schedule	-	-	●
Other function	Alarm history (records number)	100	100	10,000
	External in/output history	-	-	1,000
	Management report visualisation	●	●	●
	Data output by external media	-	-	SD card, USB flash device

(*1) One external adapter can control [128 remote controller groups/128 groups/32 blocks], and Central Station EX can connect up to 15 adapters.

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

(*3) Individual Function Control in Each Remote Controller is not applicable

(*4) Applicable by Schedule function or External Signal input

(*5) Main 5 functions mean 1) Run/Stop 2) Operation mode 3) Temperature setting 4) Fan speed 5) Louvre control



Centralised Controllers

CENTRAL STATION mini FOR SMALL-SCALE BUILDINGS PSC-A32MN



CAPACITY

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

SPECIFICATIONS

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

FUNCTIONS

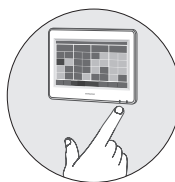
Monitor Function	- Run/Stop/Abnormality - Setting Temperature - RC Operation Prohibited Setting - Accumulated Operating Time - Operation Mode - Setting Fan Speed - Setting Louvre - Filter Sign - Alarm Code
Control Function	- Run/Stop* - Fan Speed - Operation Mode - Louvre - Temperature Setting - RC Operation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

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

The most compact model available within our range of touch panel centralised controllers.

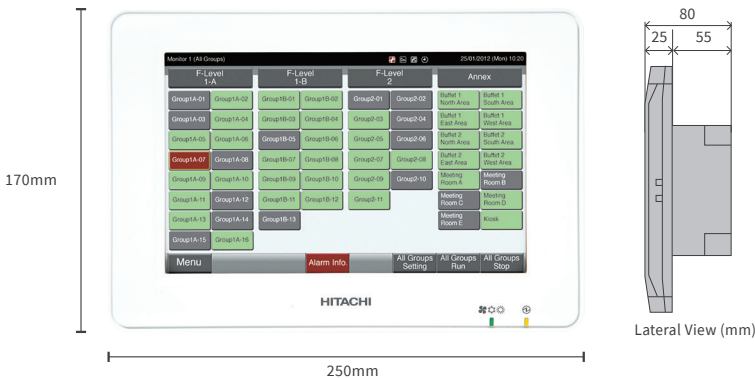
Its down-to-detail control functionalities provide energy-efficient features including: Weekly Scheduling and Accumulated Work Hours.

Up to 32 remote-controlled groups and up to 160 indoor units can be connected to a single air-conditioning system.



CENTRAL STATION EZ FOR MEDIUM-SCALE BUILDINGS

PSC-A64GT



CAPACITY

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

SPECIFICATIONS

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

FUNCTIONS

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

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

Easy intuitive operations using an 8.5" colour touch panel, the Central Station EX can ensure **up to 64 remote-controlled groups and up to 160 indoor units can be connected** to a single air conditioning system.



CENTRAL STATION EX FOR LARGE-SCALE BUILDINGS

PSC-A128EX



CAPACITY

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

(*1) One external adapter can control [160 RC groups/128 groups/160 IDUs/64 ODUs/Each layout], and Central Station EX can connect up to 15 adapters.

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

SPECIFICATIONS

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

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

Control **up to 2,560 indoor units** with our proprietary H-LINK system with 15 Extension Adapters (PSC-AD128EX)



Extension Adapter
PSC-AD128EX



Energy Calculation Software*
PSC-AS01EXC

*Required only for calculating electricity

airCloud Pro™

HITACHI

Control is in your hands New IoT VRF management

24/7 control at your fingertips
on smartphone app or web

Intuitive simplicity

airCloud Pro is designed to make your job easier.

An intuitive app that anyone can use, airCloud Pro makes managing your air conditioning systems simpler than ever before.



Control from anywhere

Enjoy the freedom of remote access from your smartphone or PC.

airCloud Pro allows you to remotely control an unlimited number of VRF system(s) from a single app, saving you travel time.



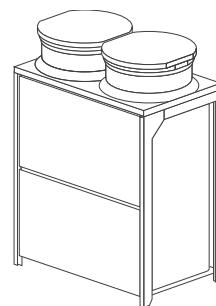
Is airCloud Pro for me?

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

Future-proof

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

Compatible with new and previous Hitachi Variable Refrigerant Flow systems¹



For standalone and multi-site applications

Download today



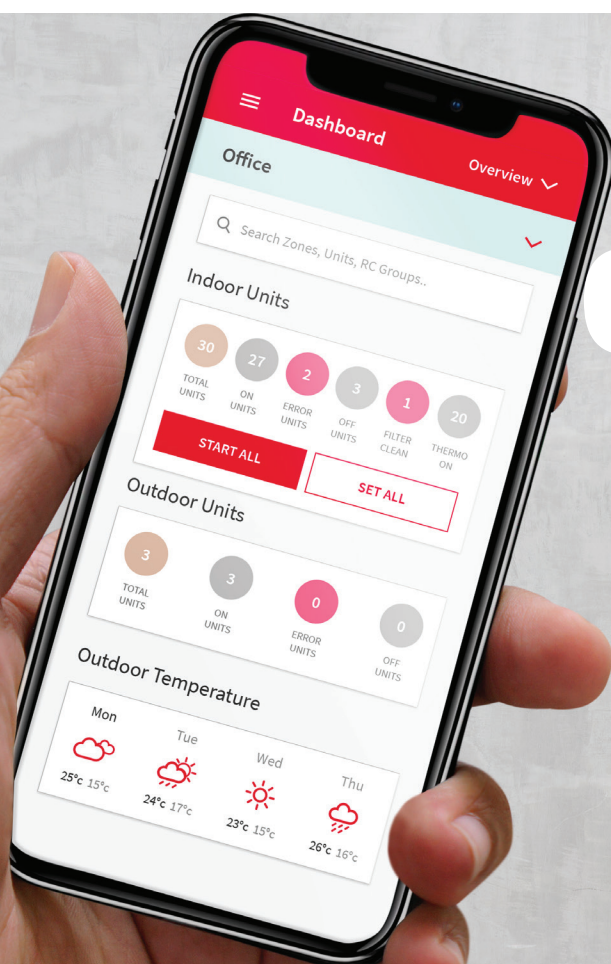
Available on the
App Store



ANDROID APP ON

Google Play

aircloudproapp.com



Cooling & Heating

airCloud Pro

A simple yet powerful tool

Simplify your job



Centralised control

Control your entire VRF system or selected zones in one touch.

Simplified troubleshooting

A clear error history, concise error description and reminder to clean filter.

Smartphone alerts²

In the event of a critical malfunction.

Flexible user management

Add unlimited number of users and custom access restrictions.

1

Create better comfort



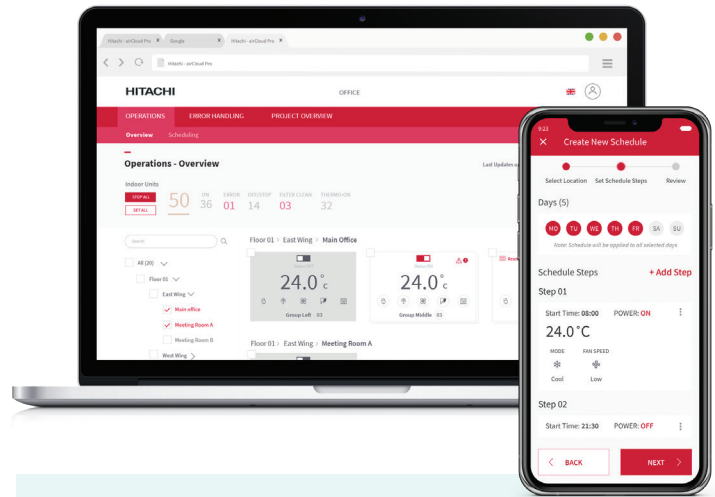
Adjust **temperature, fan speed, and modes** with ease, creating total comfort and the ideal climate throughout your building.

An **integrated weather forecast²** display helps you determine the most suitable conditions for your indoor spaces all year round.

3

+ Data security

- **Best-in-class standards:**
TLS.v1.2, HTTPS 2038 encryption
- **Minimal personal details:**
only your name, email address and phone number are required for login



Save more energy



Energy consumption data²

Simple graphs that allow you to visualize power consumption, so that you can monitor units with heavy-usage in your system.

Intuitive scheduling

Plan operations ahead based on your business hours and exceptions such as holidays.

Individual controller lock

Prevent inappropriate usage from occupants.

2

Easy plug-and-play



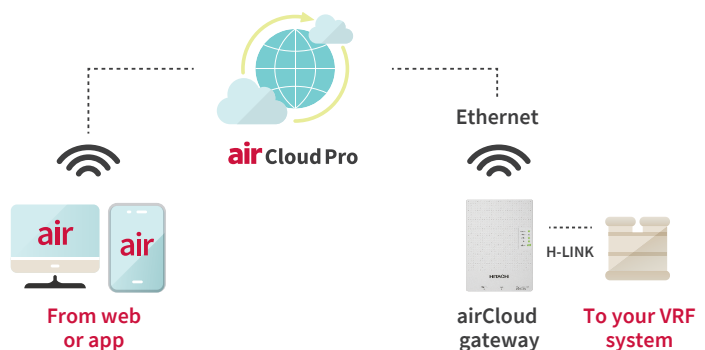
Our airCloud Gateway makes installation easy.

Connect to the airCloud via **Ethernet** and pair your VRF systems via QR code scan.

With **automatic detection of indoor units** and an optimised **installer view**, configuring your site and zones has never been quicker.

4

How airCloud Pro works



Gateway Specifications	HC-IOT GW
Dimensions (W*H*D) (mm)	138*200*41
Net weight (g)	540
Connection capacity	16 outdoor + 80 indoor units
Power supply (V) (Hz)	100-240, AC 50/60
Max. power consumption (W)	10
Communication port	1 H-LINK, 1 RS485 Port
Internet connection	LAN (Ethernet)
External interface (log storage)	1 micro SD card slot



¹ Confirm compatibility of your VRF installation with your Hitachi Cooling & Heating representative.
² Functions not available as of May 2020 (Coming soon)



ENQUIRIES

sales@temperzone.com.au

AUSTRALIA

Sydney: (02) 8822 5700
Melbourne: (03) 8769 7600
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Residential



Commercial

WARRANTY

5 year for residential applications only. One year for commercial applications

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ISO 9000 series

Shimizu Air Conditioning Headquarters, Professional-Use Air Conditioning Business Division, Johnson Controls – Hitachi Air Conditioning
JQA-1084 obtained in November 1995



ISO 14000 series

Shimizu Business Office, Johnson Controls – Hitachi Air Conditioning
EC97J1107 obtained in October 1997

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