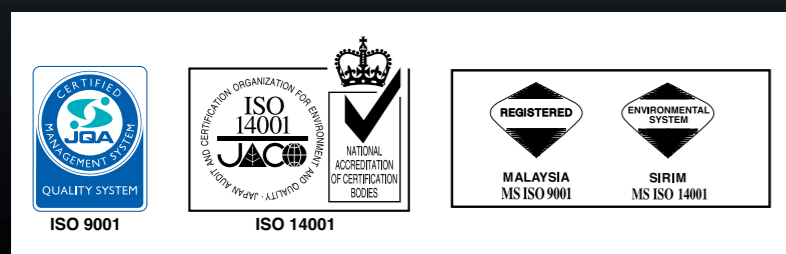


VRF Multi-split Air Conditioning System

SET-FREE FSXN

Selectable **Heat Recovery Operation** and **2 pipe Heat Pump Operation**



HITACHI
Hitachi Appliances, Inc.

URL : <http://www.hitachi-ap.com>

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R410A

SET-FREE FSXN debut

Multi air-conditioning system
that embodies usability

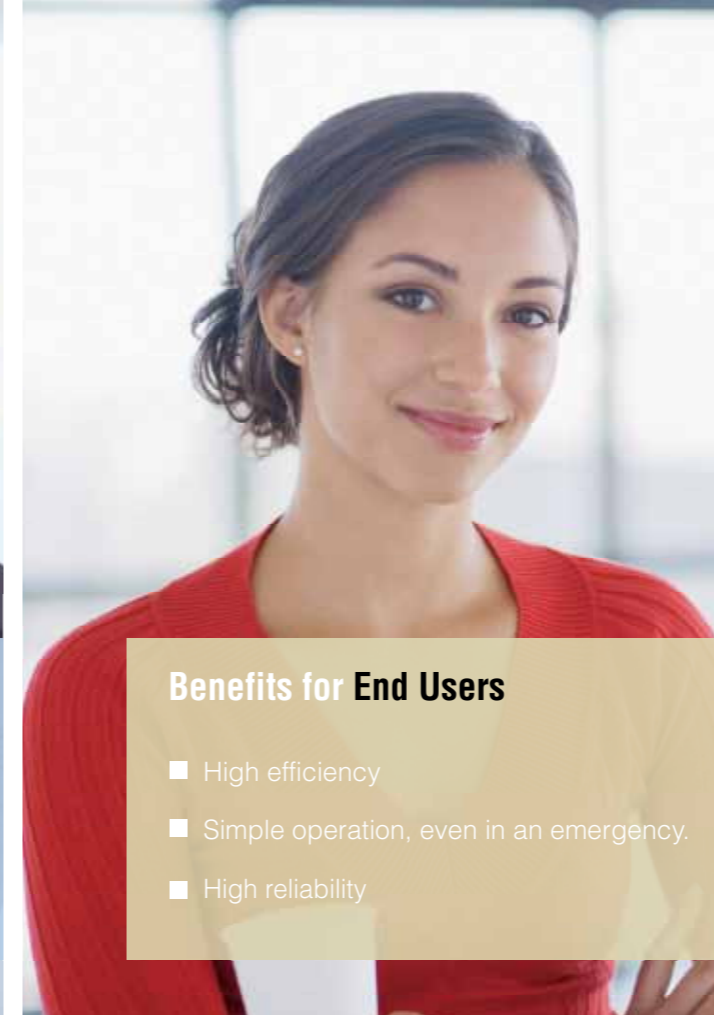
There have been increasing needs, upon the introduction of an air-condition system, for air conditioners capable of simultaneously cooling and heating, because the space where cooling is required all year round and the space where cooling and heating should be changed over seasonally coexist in office buildings and other places. Also, in order to save cost and space, lately, multiple low-capacity units are being integrated into and utilized as a high-capacity outdoor unit with increasing frequency.

Furthermore, from the viewpoint of environmental consideration, a demand is growing for an air-conditioning management system that makes it easier for users to comprehend the operating condition and the usage status of their air conditioners such as overheating, overcooling and unattended operation. To meet various kinds of needs for an air-conditioning system for buildings, Hitachi developed a new multi-split air-conditioning system for buildings called "SET-FREE FSXN".



Benefits for Building Owners

- Heat recovery operation
- Enhancement of efficiency for managing air conditioners
- Consideration for the environment



Benefits for End Users

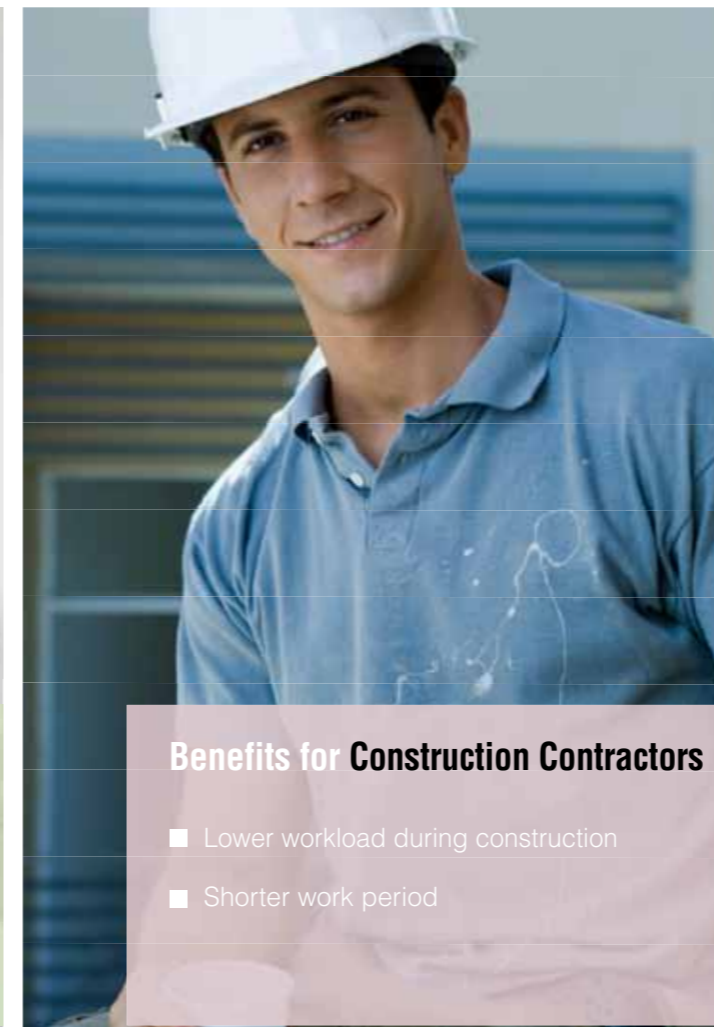
- High efficiency
- Simple operation, even in an emergency.
- High reliability

what we do to the earth, we do to ourselves



Benefits for Design Companies

- Labor-saving in equipment layout design
- Flexible system designs



Benefits for Construction Contractors

- Lower workload during construction
- Shorter work period

Advantages

■ Selectable between Heat Recovery and 2-Pipe Heat Pump operations

■ Wide Product Range

All Models (8 to 54HP) for Heat Recovery

■ Energy Saving

- Heat Recovery Operation
- DC Inverter Driven Compressor

■ Flexibility of Installation

- Compact and Light Design
- Flexible Refrigerant Piping Works

■ Comfort and Reliability

- Noise Reduction Preference Mode (option)
- Automatic Simple judgement System for Refrigerant Amount
- Rotational Operation to Distribute Load of Outdoor Units
- Backup Operation Function for Emergency

■ Control by Network System

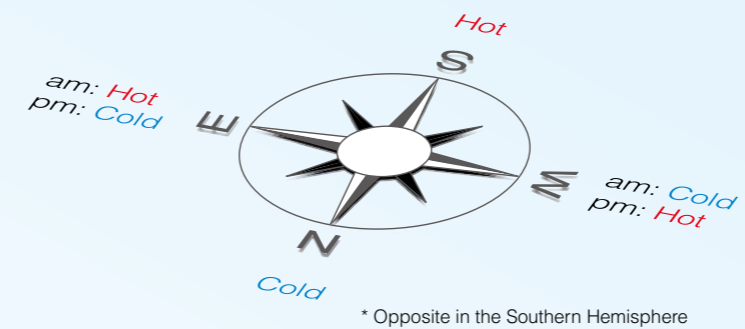


Heat Recovery Operation

"Heat Recovery Operation" . . . It's the Air-conditioning Need of the Era

When considering the need to switch between cooling and heating for day and night times at the turn of the season, the difference in room temperatures due to the influence of sunshine and the need to cool offices all year round, which arises from the widespread use of computers and terminal devices, heat recovery operation has already become a precondition for air-conditioning systems for buildings. To meet such needs, Hitachi developed a new multi-split air-

conditioning system called "SET-FREE FSXN", which supports heat recovery operation. Based on our existing sheat recovery operation system, "SET-FREE FXN," we have expanded the lineup, enhanced efficiency, reduced the dimensions and improved workability. As a result, SET-FREE FSXN offers superb energy-saving efficiency and better comfort.



Heat Recovery Operation System Optimized to Meet Different Air-conditioning Needs in the Same Building



In commercial buildings ...

Heat recovery operation is essential in commercial buildings where restaurants, shops, etc., coexist.



In hotels ...

In hotels where all different kinds of people stay, there is a huge difference in the temperatures they can sense. Thus, room temperatures should be set flexibly according to the personal preferences of the guests.



In office buildings ...

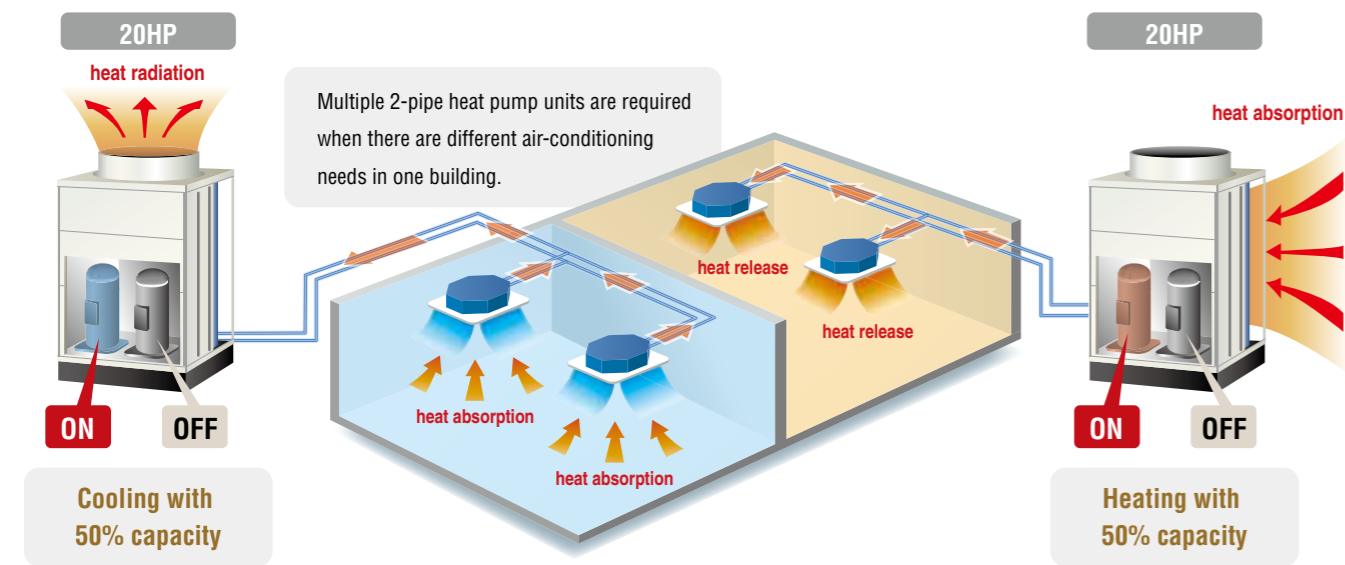
Recently, the heat inside buildings is less likely to be released thanks to changes in building structures, such as the improvement of heat insulator performance and the use of double-pane windows. Cooling is required all through the year in the interior zone where there are a lot of lighting fixtures and OA equipment, while in the perimeter zone, which is easily affected by ambient temperature and sunshine, either cooling or heating is required according to changes in the flow of heat.

Heat Recovery Operation

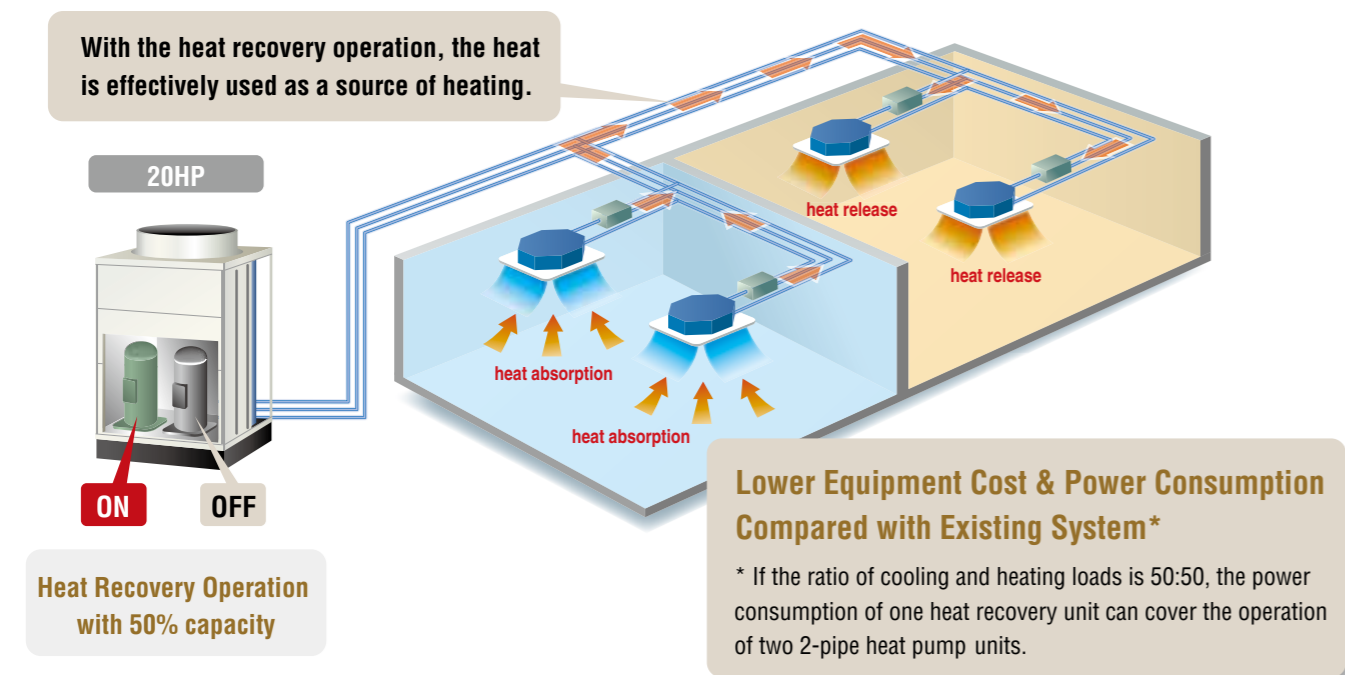
Heat Recovery Operation Significantly Enhances Energy-saving Efficiency

A heat recovery system offers high energy-saving efficiency by drawing heat from the rooms to be cooled, and effectively using it as a heat source for the rooms to be heated.

Existing system (2-pipe heat pump operation)



SET-FREE FSXN (heat recovery operation)



System Configuration

Outdoor Unit

- Heat recovery and 2-pipe heat pump operations common unit
- Module type (external connection)

Refrigerant Piping

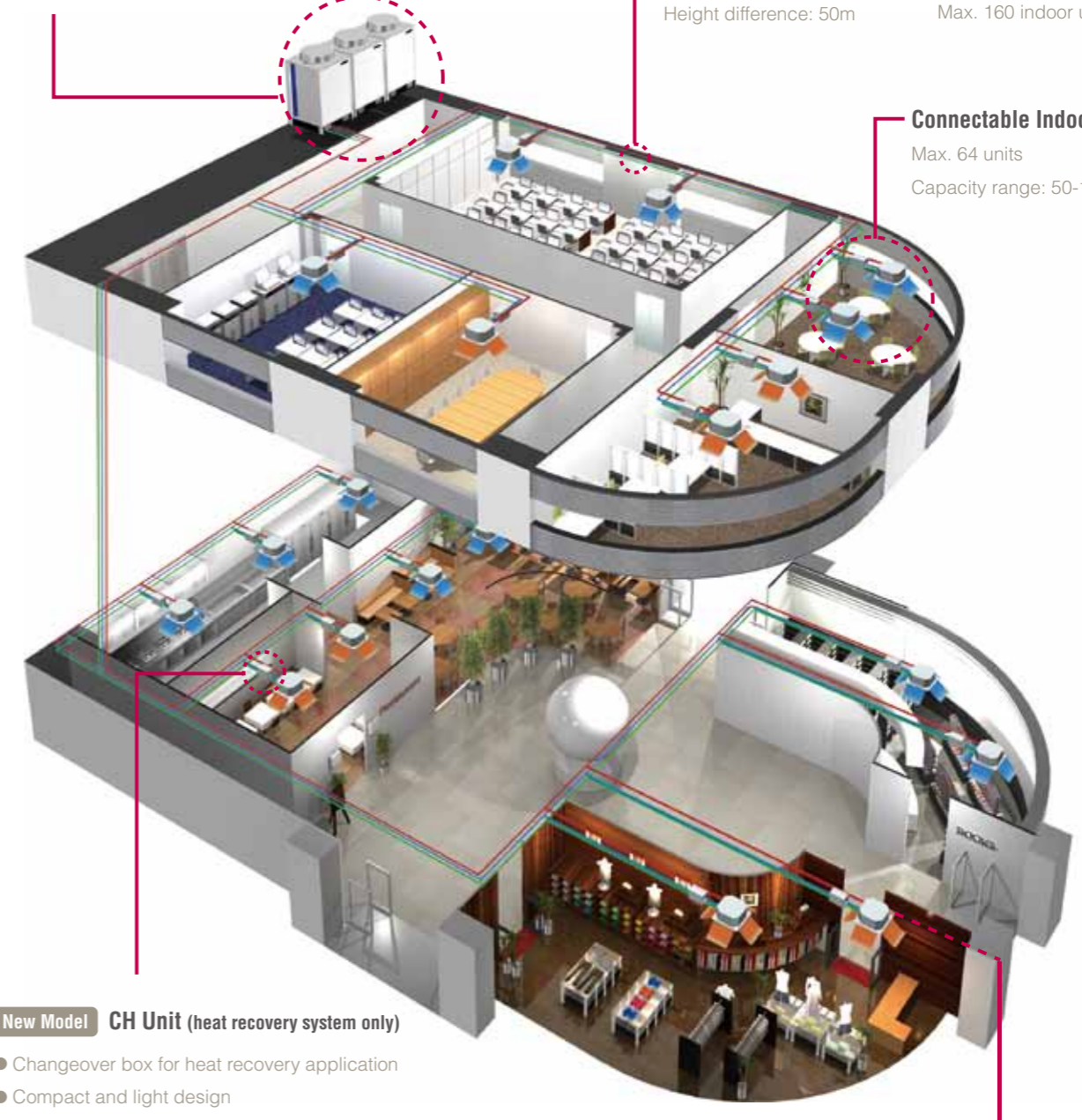
- Max. length: 165m
- Total length: 1,000m
- Height difference: 50m

Transmission

- Corresponding to H-LINK II
- Max. 64 refrigerant groups
- Max. 160 indoor units

Connectable Indoor Unit

- Max. 64 units
- Capacity range: 50-130%



New Model CH Unit (heat recovery system only)

- Changeover box for heat recovery application
- Compact and light design
- Minimized unit and less suspension bolts facilitate installation and handling methods.

Model	Specifications		Indoor Unit Connection	
	Dimension W x D x H (mm)	Net Weight (kg)	Total HP	Number of Indoor Units*
CH-6.0N1	301 x 214 x 191	7	6HP ≥	1 ~ 7
CH-10.0N1			6.1HP to 10HP	1 ~ 8

* When multiple indoor units are connected to same CH unit, they are controlled with same operation mode.

NOTE : When switching the refrigerant flow channel at Operation ON/OFF, Thermo ON/OFF, Defrost Operation and Operation Mode, refrigerant flow noise may be heard from CH Unit. Therefore install the unit in a place such as under the roof of corridor so that the sound may not be heard in the room.



Integrated Remote Controller



Product Line-up

All 48 models (8 to 54HP) for Heat Recovery and 2-pipe Heat Pump Operation System Most suitable Unit Can be Chosen from Large Selection

Space, structure and necessary functions, in line with evolution in building design and air conditioning requirements, have also diversified. The HITACHI SET-FREE FSXN Series offers 6 types of modular outdoor units and 7 types (40 models) of indoor units. By combining units from a wide selection of models, you can create a custom

air conditioning environment to satisfy your specific building conditions. Outdoor unit capacity has been extended up to 54HP by combining the base units (max. 3). This system can provide both Heat Recovery Operation and 2-pipe Heat Pump Operation Systems as follows.

Outdoor Unit

Base Unit

A RAS-8 to 12FSXN

- **Outer Dimensions**
Width: 950 mm
Depth: 765 mm
Height: 1,720 mm
- **Net Weight**
210 kg

B RAS-14 to 18FSXN

- **Outer Dimensions**
Width: 1,210 mm
Depth: 765 mm
Height: 1,720 mm
- **Net Weight**
14, 16HP: 295 kg
18HP: 315 kg

8HP	RAS-8FSXN	14HP	RAS-14FSXN	20HP	RAS-20FSXN	22HP	RAS-22FSXN	
10HP	RAS-10FSXN	16HP	RAS-16FSXN	24HP	RAS-24FSXN	26HP	RAS-26FSXN	
12HP	RAS-12FSXN	18HP	RAS-18FSXN					
28HP	RAS-28FSXN	38HP	RAS-38FSXN	44HP	RAS-44FSXN	50HP	RAS-50FSXN	
30HP	RAS-30FSXN	40HP	RAS-40FSXN	46HP	RAS-46FSXN	52HP	RAS-52FSXN	
32HP	RAS-32FSXN	42HP	RAS-42FSXN	48HP	RAS-48FSXN	54HP	RAS-54FSXN	
34HP	RAS-34FSXN							
36HP	RAS-36FSXN							

Refer to "GENERAL DATA" for information on the combination of base units.

Indoor Unit

	0.8	1.0	1.5	2.0	2.5	3.0	4.0	5.0	6.0	0.8	10.0 (HP)
 4-Way Cassette		■	■	■	■	■	■	■	■		
 2-Way Cassette		■	■	■	■	■	■	■			
 In-the-ceiling	■	■	■	■	■	■	■	■		■	■
 Ceiling				■	■	■	■	■			
 Wall		■	■	■	■	■	■				
 Floor		■	■								
 Floor-Concealed		■	■								

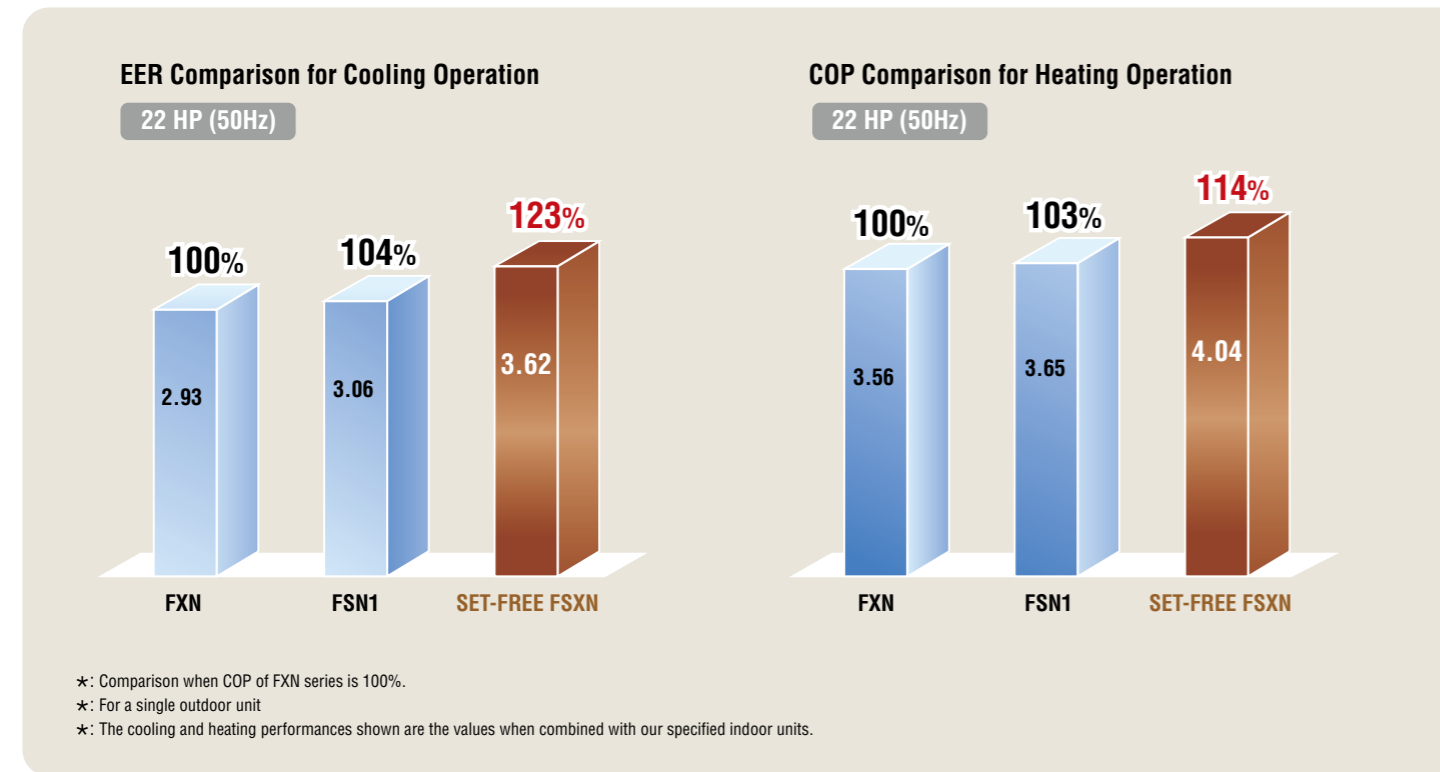
System Equipment

	250m ³ /h	500m ³ /h	800m ³ /h	1,000m ³ /h
 Total Heat Exchanger	■	■	■	■

Energy-saving and Comfort

Sophisticated energy-saving technology delivers outstanding effects

Refrigerant cycle and control achieve an industry-leading level of efficiency and energy-saving performance.



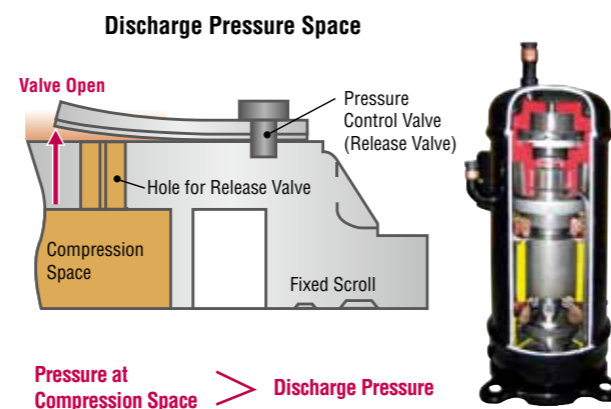
New Type DC Inverter Scroll Compressor

Improved Intermediate Pressure Performance

The intermediate pressure performance is drastically improved by using a release valve and optimizing orbiting scroll lifting force in the improved new compression mechanism, therefore intermediate pressure performance is largely improved for energy-saving.

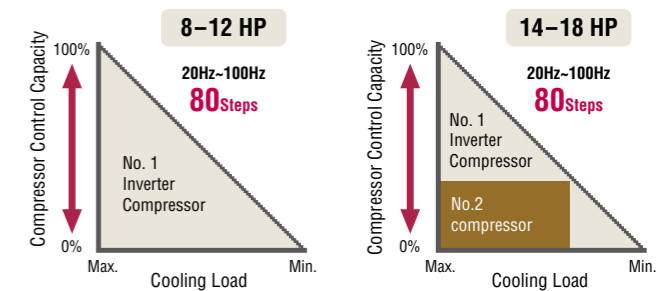
Release Valve Adoption Prevents from Overcompression.

Orbiting Scroll Lifting Force Optimization is Improved Leakage Loss Reduction.



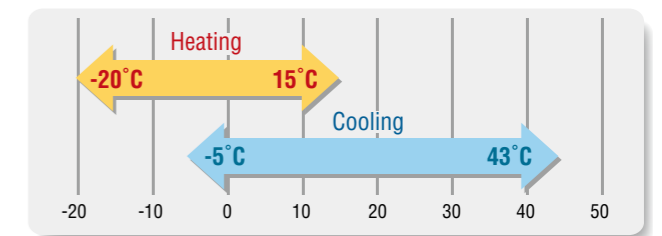
Capacity Control by 1 Hz

Performance is greatly improved by the high efficiency DC inverter compressor and 100% load compressor, and lossless energy-saving operation is achieved (depending on the building).



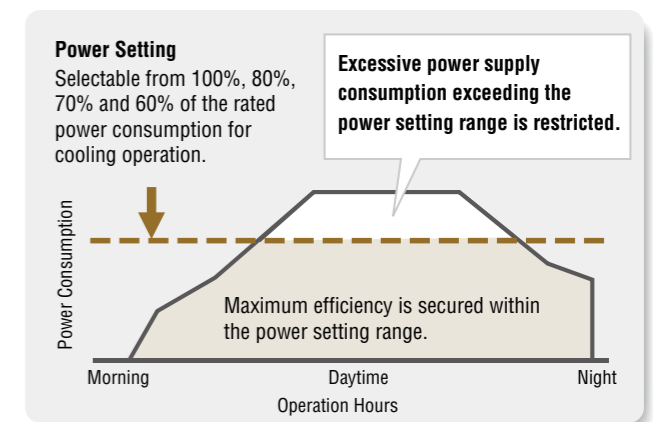
Wide Working Range

SET-FREE FSXN can handle a wide range of outside air conditions, thus extending the flexibility of installation space and climatic environment.



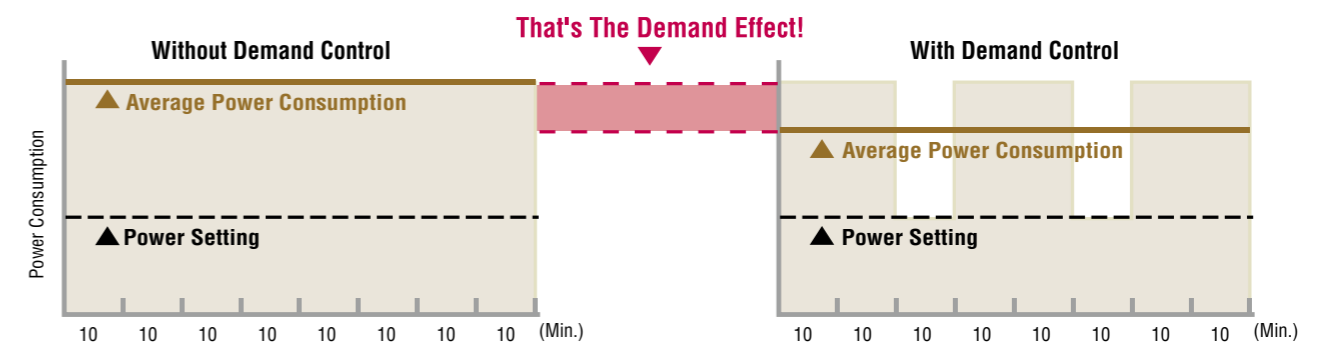
Self-demand Control

A newly developed self-demand function has largely improved energy-saving effects. Since the current is self-detected and demand control performed automatically, no signal wiring work is required. Conventional demand control using demand signals is also available, and you can select various operations as required.



Wave Mode

Wave mode turns demand control ON and OFF alternately at intervals of about 20 min. or 10 min. While power is always saved, temperature changes are also minimized to maintain a comfortable room temperature.



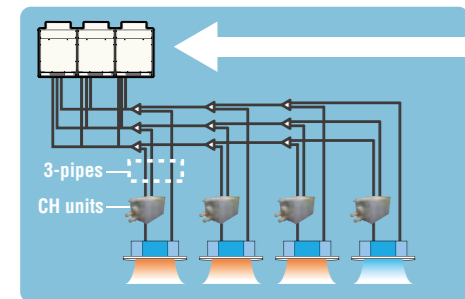
Flexibility of Installation

Heat Recovery and 2-pipe Heat Pump operations Selectable for Outdoor Units

Common outdoor units are applicable to the heat recovery operation system as well as the 2-pipe heat pump operation system. This saves the burden of review work when

designing the equipment layout, while reducing the workload of installation on site.

When used as a heat recovery operation system



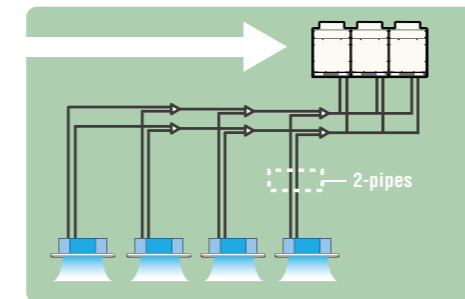
The heat recovery and 2-pipe heat pump operation systems cannot be switched over after installation is complete.

SET-FREE FSXN (Module Type)



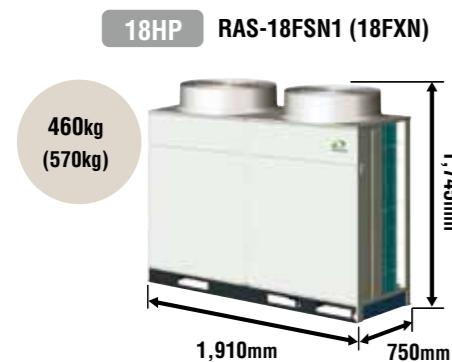
Heat recovery and 2-pipe heat pump operations common unit

When used as a 2-pipe heat pump operation system

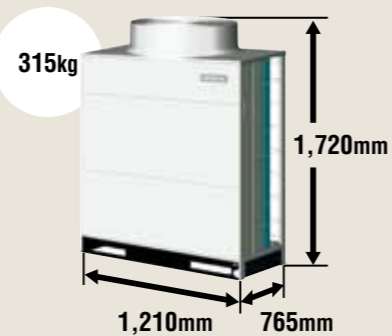


Compact and Light Design

Ease and flexibility of installation are further enhanced by adopting the outdoor unit's lightweight and compact design as compared to the current model.



18HP RAS-18FSXN



- Installation Space : Reduced by **35% (35%)**
- Weight : Reduced by **32% (45%)**

Even the Largest Basic Unit (18HP Model) Can Be Carried in an Elevator

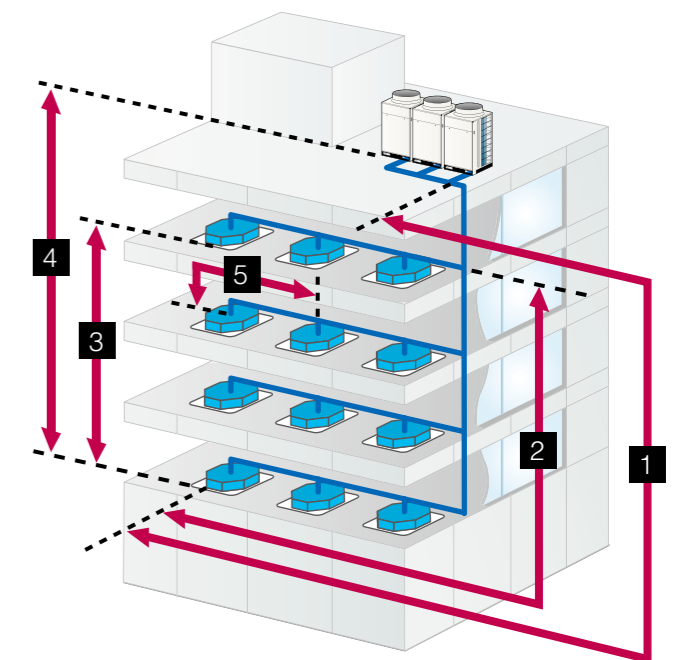
Elevator
Door Opening: 800 mm
Depth: 1350 mm



More Flexible Refrigerant Piping Work

Improved flexibility of design by increasing the pipe length to 165 m max. (equivalent length of 190 m) in FSXN series.

- 1 Max. piping length: **165 m** *1
- 2 Between first branch and indoor unit: **90m or less**
- 3 Height difference between highest and lowest indoor units: **15m or less**
- 4 Height difference between outdoor and indoor units: **50m** *2
- 5 Max. length between branch from indoorunit: **40m**



*1: For 100m or more, the pipe diameter will be one size larger.
*2: In case the outdoor unit is installed at a higher level than indoor units. If the outdoor unit is installed lower than indoor units, the maximum height difference is 40m.

	Current Model (FSN1)	New Model (FSXN)
Total maximum piping length	300 m	1,000 m
Max. piping length	150 m	165 m
Between first branch and indoor unit	40 m	90 m
Max. piping length after branch	30 m	40 m

Connectable to 64 Indoor Units Max.

The number of connectable indoor units has been increased to 64 maximum. Thus, the system can be used in buildings where there are many indoor units to be connected.

		Connection Capacity: 50 to 130%													
		HP	5	8	10	12	14	16	18	20	22	24	26	28	30
Max. Number of Connectable Indoor Units	Current Models	FSN(1) Series	8	13	16	16	20	20	20	20	20	27	29	31	32
		FXN Series	-	13	16	-	-	20	20	20	20	27	29	-	32
		New FSXN Series	-	13	16	19	23	26	26	33	36	40	43	47	50
Max. Number of Connectable Indoor Units	Current Models	FSN(1) Series	32	34	36	38	40	42	44	46	48	50	52	54	
		FXN Series	32	-	-	-	-	-	-	-	-	-	-	-	
		New FSXN Series	53	56	59	64	64	64	64	64	64	64	64	64	64

NOTES

*: For a system in which all indoor units are operated simultaneously, the max. total capacity will be 100%. Determine the number of Indoor Units carefully so that a problem such as decreased outlet air temperature will not occur. Refer to Technical Catalog for more details.

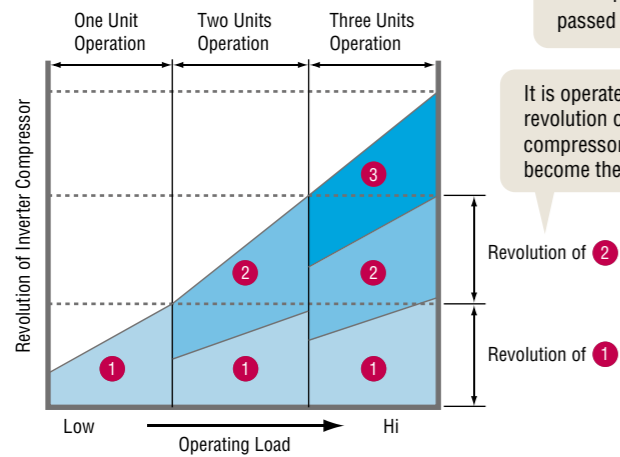
*: Compared to indoor units of over 1.5HP, indoor units of 0.8 and 1.0HP are set with higher air flow. Do not install these units in a place where a cold draft may occur during heating operation. Determine the usage environment and installation location carefully.

Other Advanced Technologies

Rotational Operation*¹ to Distribute Load of Outdoor Units

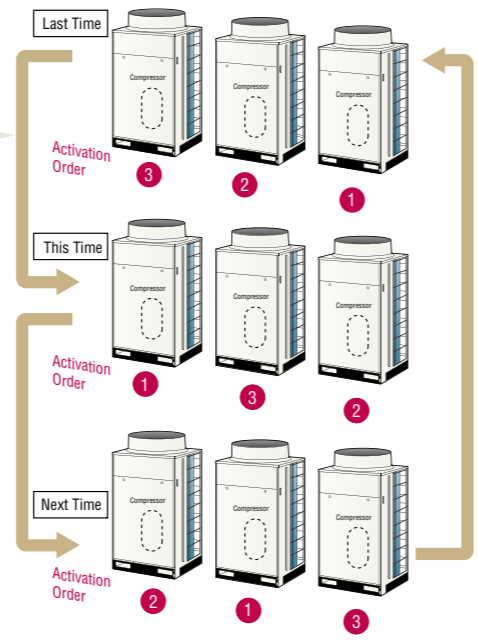
Regulating the operation time of each outdoor unit leads to load reduction on compressors.*² During multiple unit operation, the same rotation frequency of inverter compressor results in an equivalent load on each compressor. Therefore, outdoor unit endurance is improved.

Inverter Compressor Rotation Frequency Control (Example)



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

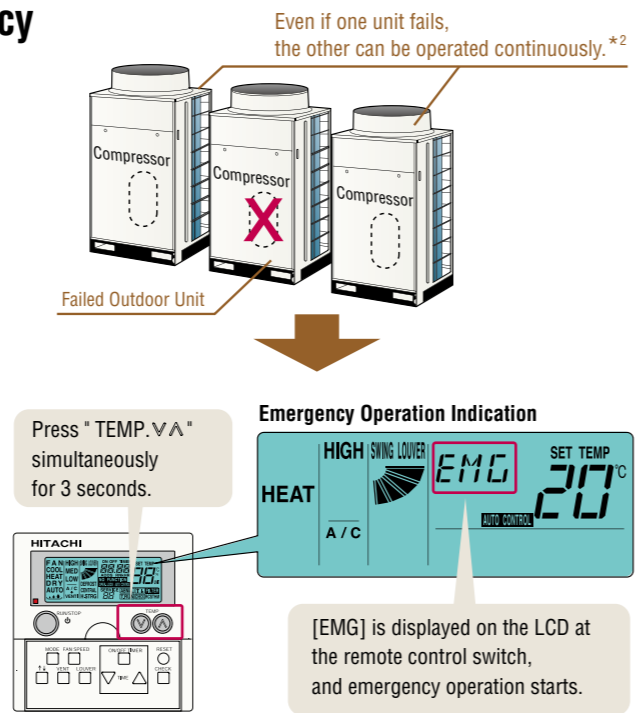
It is operated so that the revolution of the inverter compressor ① and ② may become the same.



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

Backup Operation Function for Emergency

The Backup Operation Function prevents the system from coming to a complete stop when outdoor unit failure occurs.*¹ Emergency operation starts with the remote control switch after an alarm.*³



NOTES
 *1: At least 2 outdoor units are required for this function.
 *2: Emergency operation can be performed within 8 hours after unit stoppage. After 8 hours passed from unit stoppage, emergency operation can not be performed.
 *3: Emergency operation can be performed when the specified alarm code occurs. Refer to "Alarm Code for Emergency Operation".

Noise Reduction Preference Mode (Optional Function)

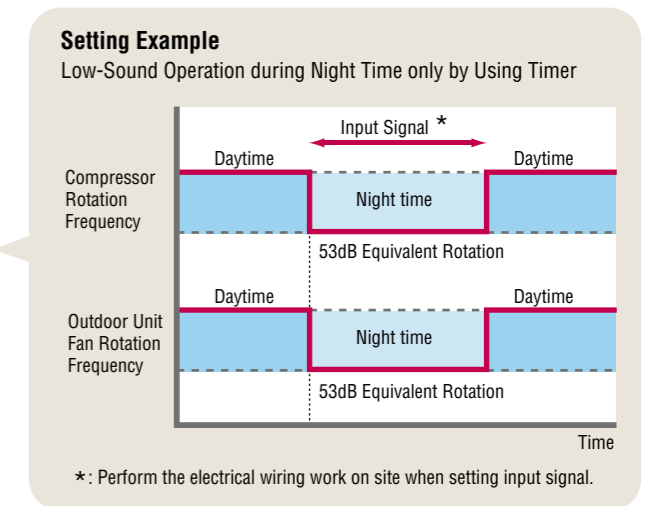
With the new Noise Reduction Preference Mode, the sound pressure level for a particular time zone can be set based upon the usage environment.*¹

Therefore, the operation/management of air conditioners is facilitated in areas where the noise level at night time is restricted by laws and regulations.

You can select from 3 sound pressure levels

Optional Noise Reduction Function	Setting from Outdoor Unit Input and Output Function	Sound Pressure Level (dB) (Approx. Value) * ²
11	Setting 1 (Standard Value -2dB)	56
12	Setting 2 (Standard Value -5dB)	53
13	Setting 3 (Standard Value -8dB)	50

NOTES
 *1: The range of performance and operation is restricted, because the rotation frequency of the compressor and outdoor fan is forcibly decreased.
 *2: The table above shows an approximate value of 10HP. In some cases, the value may temporarily become higher than the approximate value in the table above due to operation control conditions.



Automatic Simple Judgement System for Refrigerant Amount

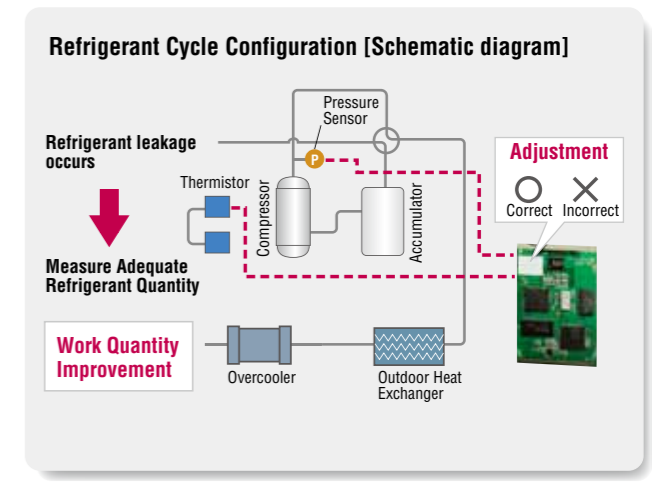
Use this automatic judgement function to check whether or not the refrigerant amount is sufficient in one refrigerant cycle.

Factor for Judgement

The appropriate refrigerant amount is calculated based upon the following data.

- 1 Refrigerant Cycle Temperature
- 2 Refrigerant Saturation Temperature
- 3 Outdoor Unit Expansion Valve Data
- 4 Indoor Unit Data

NOTES
 *1: Refrigerant over-charging is not detected. Over-charging can be detected by gradually adding refrigerant from the under-charged state at test run or when refrigerant leakage occurs.
 *2: This function does not provide automatic refrigerant charging.
 *3: The adjustment (estimate) is changed according to the operation condition (the number of operating units and temperature).



General Data

Model		RAS-8FSXN	RAS-10FSXN	RAS-12FSXN	RAS-14FSXN	RAS-16FSXN		RAS-18FSXN	RAS-20FSXN	RAS-22FSXN	RAS-24FSXN	RAS-26FSXN	RAS-28FSXN	RAS-30FSXN
Combination of Base Unit		-	-	-	-	-		-	RAS-8FSXN RAS-12FSXN	RAS-8FSXN RAS-14FSXN	RAS-10FSXN RAS-14FSXN	RAS-12FSXN RAS-14FSXN	RAS-14FSXN RAS-14FSXN	RAS-14FSXN RAS-16FSXN
Power Supply		AC 3 φ , 400V/50Hz (380-415V/50Hz), 380V/60Hz, 220V/60Hz							AC 3 φ , 400V/50Hz (380-415V/50Hz), 380V/60Hz, 220V/60Hz					
Nominal Cooling Capacity	kW	22.4	28.0	33.5	40.0	45.0		50.0	56.0	61.5	69.0	73.0	80.0	85.0
Nominal Heating Capacity	kW	25.0	31.5	37.5	45.0	50.0		56.0	63.0	69.0	77.5	82.5	90.0	95.0
EER [Cooling COP] (50/60Hz)		3.85/3.85	3.79/3.79	3.41/3.41	3.25/3.21	3.23/3.19		3.37/3.35	3.58/3.58	3.62/3.58	3.37/3.35	3.38/3.36	3.25/3.21	3.24/3.20
COP [Heating COP] (50/60Hz)		4.17/4.17	4.11/4.11	3.60/3.60	3.89/3.90	3.90/3.93		3.81/3.85	3.81/3.81	4.04/4.05	3.89/3.89	3.75/3.76	3.89/3.90	3.90/3.92
Cabinet Color (Munsell Code)		Natural Gray (1.0Y 8.5/0.5)							Natural Gray (1.0Y 8.5/0.5)					
Sound Pressure Level [Overall A Scale] (Night-Shift)	dB	Maximum 58 (53) 58 (53) 60 (55) 62 (57) 62 (57)							Maximum 63 (58) 62 (57) 63 (58) 63 (58) 64 (59) 65 (60) 65 (60)					
Outer Dimensions Height x Width x Depth	mm	1,720 x 950 x 765	1,720 x 950 x 765	1,720 x 950 x 765	1,720 x 1,210 x 765	1,720 x 1,210 x 765		1,720 x 1,210 x 765	1,720 x 1,920 x 765	1,720 x 2,180 x 765	1,720 x 2,180 x 765	1,720 x 2,180 x 765	1,720 x 2,440 x 765	1,720 x 2,440 x 765
Net Weight	kg	210	210	210	295	295		315	210 + 210	210 + 295	210 + 295	210 + 295	295 + 295	295 + 295
Refrigerant (Flow Control)		R410A (Micro-Computer Control Expansion Valve)							R410A (Micro-Computer Control Expansion Valve)					
Compressor		Hermetic (Scroll)							Hermetic (Scroll)					
Model		E656DHD	E656DHD	E656DHD	E656DHD + E655DH	E656DHD + E655DH		E656DHD+E655DH	E656DHD+ E656DHD	E656DHD + E656DHD + E655DH	E656DHD + E656DHD + E655DH	E656DHD + E656DHD + E655DH	E656DHD + E655DH + E656DHD + E655DH	E656DHD + E655DH + E656DHD + E655DH
Quantity		1	1	1	1 + 1	1 + 1		1 + 1	1 + 1	1 + 1 + 1	1 + 1 + 1	1 + 1 + 1	1 + 1 + 1 + 1	1 + 1 + 1 + 1
Motor Output (Pole)		4.8 (4)	6.0 (4)	7.2 (4)	4.8 (4) + 4.4 (2)	6.0 (4) + 4.4 (2)		6.0 (4) + 5.6 (2)	4.8 (4) + 7.2 (4)	4.8 (4) + 4.8 (4) + 4.4 (2)	6.0 (4) + 4.8 (4) + 4.4 (2)	7.2 (4) + 4.8 (4) + 4.4 (2)	4.8 (4) + 4.4 (2) + 4.8 (4) + 4.4 (2)	4.8 (4) + 4.4 (2) + 6.0 (4) + 4.4 (2)
Heat Exchanger		Multi-pass Cross-Finned Tube							Multi-pass Cross-Finned Tube					
Main Refrigerant Piping 2-pipe Heat Pump Operation System (2 pipes)														
Liquid Line	mm	φ 9.53* (φ 9.53 - φ 12.7)	φ 9.53* (φ 9.53 - φ 12.7)	φ 12.7* (φ 12.7 - φ 15.88)	φ 12.7* (φ 12.7 - φ 15.88)	φ 12.7* (φ 12.7 - φ 15.88)		φ 15.88* (φ 15.88 - φ 19.05)	φ 15.88* (φ 15.88 - φ 19.05)	φ 15.88* (φ 15.88 - φ 19.05)	φ 15.88* (φ 15.88 - φ 19.05)	φ 19.05* (φ 19.05 - φ 22.2)	φ 19.05* (φ 19.05 - φ 22.2)	φ 19.05* (φ 19.05 - φ 22.2)
Gas Line	mm	φ 19.05 (φ 19.05 - φ 22.2)	φ 22.2 (φ 22.2 - φ 25.4)	φ 25.4* (φ 25.4 - φ 28.6)	φ 25.4* (φ 25.4 - φ 28.6)	φ 28.6* (φ 28.6 - φ 31.75)		φ 28.6* (φ 28.6 - φ 31.75)	φ 28.6* (φ 28.6 - φ 31.75)	φ 28.6* (φ 28.6 - φ 31.75)	φ 28.6* (φ 28.6 - φ 31.75)	φ 31.75* (φ 31.75 - φ 34.9)	φ 31.75* (φ 31.75 - φ 34.9)	φ 31.75* (φ 31.75 - φ 34.9)
Main Refrigerant Piping Heat Recovery Operation System (3 pipes)														
Liquid Line	mm	φ 9.53* (φ 9.53 - φ 12.7)	φ 9.53* (φ 9.53 - φ 12.7)	φ 12.7* (φ 12.7 - φ 15.88)	φ 12.7* (φ 12.7 - φ 15.88)	φ 12.7* (φ 12.7 - φ 15.88)		φ 15.88* (φ 15.88 - φ 19.05)	φ 15.88* (φ 15.88 - φ 19.05)	φ 15.88* (φ 15.88 - φ 19.05)	φ 15.88* (φ 15.88 - φ 19.05)	φ 19.05* (φ 19.05 - φ 22.2)	φ 19.05* (φ 19.05 - φ 22.2)	φ 19.05* (φ 19.05 - φ 22.2)
Gas Line Low Pressure	mm	φ 19.05* (φ 19.05 - φ 22.2)	φ 22.2* (φ 22.2 - φ 25.4)	φ 25.4* (φ 25.4 - φ 28.6)	φ 25.4* (φ 25.4 - φ 28.6)	φ 28.6* (φ 28.6 - φ 31.75)		φ 28.6* (φ 28.6 - φ 31.75)	φ 28.6* (φ 28.6 - φ 31.75)	φ 28.6* (φ 28.6 - φ 31.75)	φ 28.6* (φ 28.6 - φ 31.75)	φ 31.75* (φ 31.75 - φ 34.9)	φ 31.75* (φ 31.75 - φ 34.9)	φ 31.75* (φ 31.75 - φ 34.9)
Gas Line High Pressure	mm	φ 15.88* (φ 15.88 - φ 19.05)	φ 19.05* (φ 19.05 - φ 22.2)	φ 22.2* (φ 22.2 - φ 25.4)	φ 22.2* (φ 22.2 - φ 25.4)	φ 22.2* (φ 22.2 - φ 25.4)		φ 22.2* (φ 22.2 - φ 25.4)	φ 22.2* (φ 22.2 - φ 25.4)	φ 25.4* (φ 25.4 - φ 28.6)	φ 25.4* (φ 25.4 - φ 28.6)	φ 25.4* (φ 25.4 - φ 28.6)	φ 28.6* (φ 28.6 - φ 31.75)	φ 28.6* (φ 28.6 - φ 31.75)
Refrigerant Charge	kg	6.5	6.5	7.0	9.0	9.0		10.5	13.5	15.5	15.5	16.0	18.0	18.0
Packing Dimensions Height x Width x Depth	mm	1,895 x 990 x 810	1,895 x 990 x 810	1,895 x 990 x 810	1,895 x 1,250 x 810	1,895 x 1,250 x 810		1,895 x 1,250 x 810	-	-	-	-	-	-
Approximate Packing Measurement	m ³	1.52	1.52	1.52	1.92	1.92		1.92	-	-	-	-	-	-

NOTES:

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

Cooling Operation Conditions

Indoor Air Inlet Temperature: 27°C DB (80°F DB)
19.0°C WB (66.2°F WB)
Outdoor Air Inlet Temperature: 35°C DB (95°F DB)
Piping Length: 7.5 Meters Piping Lift: 0 Meter

Heating Operation Conditions

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

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

1 Meter from the unit service cover surface, and 1.5 Meters from floor level. The above data is based on the cooling mode. In case of heating mode, the sound pressure level increases by approximately 1-2 dB. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

3. * If the specified main refrigerant piping on the table is not available on site, follow the allowable piping size in parentheses. When using the main refrigerant piping indicated in parentheses, prepare an appropriate reducer on site.

4. Except for the specified combination in the table (20-30HP), there is no other combination of the base unit.

5. The width of outer dimension, it is the value when each distance between the base outdoor units is specified to 20mm.

General Data

Model		RAS-32FSXN	RAS-34FSXN	RAS-36FSXN	RAS-38FSXN	RAS-40FSXN		RAS-42FSXN	RAS-44FSXN	RAS-46FSXN	RAS-48FSXN	RAS-50FSXN	RAS-52FSXN	RAS-54FSXN
Combination of Base Unit		RAS-16FSXN RAS-16FSXN	RAS-16FSXN RAS-18FSXN	RAS-18FSXN RAS-18FSXN	RAS-12FSXN RAS-12FSXN RAS-14FSXN	RAS-12FSXN RAS-12FSXN RAS-16FSXN		RAS-12FSXN RAS-12FSXN RAS-18FSXN	RAS-12FSXN RAS-14FSXN RAS-18FSXN	RAS-12FSXN RAS-16FSXN RAS-18FSXN	RAS-12FSXN RAS-18FSXN RAS-18FSXN	RAS-14FSXN RAS-18FSXN RAS-18FSXN	RAS-16FSXN RAS-18FSXN RAS-18FSXN	RAS-18FSXN RAS-18FSXN RAS-18FSXN
Power Supply		AC 3 φ , 400V/50Hz (380-415V/50Hz), 380V/60Hz, 220V/60Hz							AC 3 φ , 400V/50Hz (380-415V/50Hz), 380V/60Hz, 220V/60Hz					
Nominal Cooling Capacity	kW	90.0	95.0	100.0	109.0	112.0		118.0	125.0	132.0	136.0	140.0	145.0	150.0
Nominal Heating Capacity	kW	100.0	106.0	112.0	118.0	125.0		132.0	140.0	145.0	150.0	155.0	160.0	165.0
EER [Cooling COP] (50/60Hz)		3.23/3.19	3.30/3.27	3.37/3.35	3.29/3.28	3.34/3.32		3.32/3.31	3.27/3.24	3.16/3.15	3.24/3.23	3.33/3.31	3.32/3.30	3.37/3.35
COP [Heating COP] (50/60Hz)		3.90/3.93	3.85/3.89	3.81/3.85	3.87/3.88	3.71/3.72		3.65/3.66	3.75/3.75	3.71/3.71	3.74/3.76	3.98/3.99	3.98/4.00	4.01/4.03
Cabinet Color (Munsell Code)		Natural Gray (1.0Y 8.5/0.5)							Natural Gray (1.0Y 8.5/0.5)					
Sound Pressure Level [Overall A Scale] (Night-Shift)	dB	Maximum 65 (60)							Maximum 66 (61)					
Outer Dimensions														
Height x Width x Depth	mm	1,720 x 2,440 x 765	1,720 x 2,440 x 765	1,720 x 2,440 x 765	1,720 x 3,150 x 765	1,720 x 3,150 x 765		1,720 x 3,150 x 765	1,720 x 3,410 x 765	1,720 x 3,410 x 765	1,720 x 3,410 x 765	1,720 x 3,670 x 765	1,720 x 3,670 x 765	1,720 x 3,670 x 765
Net Weight	kg	295 + 295	295 + 315	315 + 315	210 + 210 + 295	210 + 210 + 295		210 + 210 + 315	210 + 295 + 315	210 + 295 + 315	210 + 315 + 315	295 + 315 + 315	295 + 315 + 315	315 + 315 + 315
Refrigerant (Flow Control)		R410A (Micro-Computer Control Expansion Valve)							R410A (Micro-Computer Control Expansion Valve)					
Compressor		Hermetic (Scroll)							Hermetic (Scroll)					
Model		E656DHD + E655DH + E656DHD + E655DH	E656DHD + E655DH + E656DHD + E655DH	E656DHD + E655DH + E656DHD + E655DH	E656DHD + E656DHD + E656DHD + E655DH	E656DHD + E656DHD + E656DHD + E655DH		E656DHD + E656DHD + E656DHD + E655DH	E656DHD + E656DHD + E655DH + E656DHD + E855DH	E656DHD + E656DHD + E655DH + E656DHD + E855DH	E656DHD + E656DHD + E655DH + E656DHD + E855DH	E656DHD + E655DH + E656DHD + E855DH	E656DHD + E655DH + E656DHD + E855DH	E656DHD + E855DH + E656DHD + E855DH
Quantity		1 + 1 + 1 + 1	1 + 1 + 1 + 1	1 + 1 + 1 + 1	1 + 1 + 1 + 1	1 + 1 + 1 + 1		1 + 1 + 1 + 1	1 + 1 + 1 + 1 + 1	1 + 1 + 1 + 1 + 1	1 + 1 + 1 + 1 + 1	1 + 1 + 1 + 1 + 1 + 1	1 + 1 + 1 + 1 + 1 + 1	1 + 1 + 1 + 1 + 1 + 1
Motor Output (Pole)		6.0 (4) + 4.4 (2) + 6.0 (4) + 4.4 (2)	6.0 (4) + 4.4 (2) + 6.0 (4) + 5.6 (2)	6.0 (4) + 5.6 (2) + 6.0 (4) + 5.6 (2)	7.2 (4) + 7.2 (4) + 4.8 (4) + 4.4 (2)	7.2 (4) + 7.2 (4) + 6.0 (4) + 4.4 (2)		7.2 (4) + 7.2 (4) + 6.0 (4) + 5.6 (2)	7.2 (4) + 4.8 (4) + 4.4 (2) + 6.0 (4) + 5.6 (2)	7.2 (4) + 6.0 (4) + 4.4 (2) + 6.0 (4) + 5.6 (2)	7.2 (4) + 6.0 (4) + 5.6 (2) + 6.0 (4) + 5.6 (2)	4.8 (4) + 4.4 (2) + 6.0 (4) + 5.6 (2) + 6.0 (4) + 5.6 (2)	6.0 (4) + 4.4 (2) + 6.0 (4) + 5.6 (2) + 6.0 (4) + 5.6 (2)	6.0 (4) + 5.6 (2) + 6.0 (4) + 5.6 (2)
Heat Exchanger		Multi-pass Cross-Finned Tube							Multi-pass Cross-Finned Tube					
Main Refrigerant Piping 2-pipe Heat Pump Operation System (2 pipes)														
Liquid Line	mm	φ 19.05* (φ 19.05 - φ 22.2)	φ 19.05* (φ 19.05 - φ 22.2)	φ 19.05* (φ 19.05 - φ 22.2)	φ 19.05* (φ 19.05 - φ 22.2)	φ 19.05* (φ 19.05 - φ 22.2)		φ 19.05* (φ 19.05 - φ 22.2)	φ 19.05* (φ 19.05 - φ 22.2)	φ 19.05* (φ 19.05 - φ 22.2)	φ 19.05* (φ 19.05 - φ 22.2)	φ 19.05* (φ 19.05 - φ 22.2)	φ 19.05* (φ 19.05 - φ 22.2)	φ 19.05* (φ 19.05 - φ 22.2)
Gas Line	mm	φ 31.75* (φ 31.75 - φ 34.9)	φ 31.75* (φ 31.75 - φ 34.9)	φ 38.1* (φ 38.1 - φ 41.3)	φ 38.1* (φ 38.1 - φ 41.3)	φ 38.1* (φ 38.1 - φ 41.3)		φ 38.1* (φ 38.1 - φ 41.3)	φ 38.1* (φ 38.1 - φ 41.3)	φ 38.1* (φ 38.1 - φ 41.3)	φ 38.1* (φ 38.1 - φ 41.3)	φ 38.1* (φ 38.1 - φ 41.3)	φ 38.1* (φ 38.1 - φ 41.3)	φ 38.1* (φ 38.1 - φ 41.3)
Main Refrigerant Piping Heat Recovery Operation System (3 pipes)														
Liquid Line	mm	φ 19.05* (φ 19.05 - φ 22.2)	φ 19.05* (φ 19.05 - φ 22.2)	φ 19.05* (φ 19.05 - φ 22.2)	φ 19.05* (φ 19.05 - φ 22.2)	φ 19.05* (φ 19.05 - φ 22.2)		φ 19.05* (φ 19.05 - φ 22.2)	φ 19.05* (φ 19.05 - φ 22.2)	φ 19.05* (φ 19.05 - φ 22.2)	φ 19.05* (φ 19.05 - φ 22.2)	φ 19.05* (φ 19.05 - φ 22.2)	φ 19.05* (φ 19.05 - φ 22.2)	φ 19.05* (φ 19.05 - φ 22.2)
Gas Line Low Pressure	mm	φ 31.75* (φ 31.75 - φ 34.9)	φ 31.75* (φ 31.75 - φ 34.9)	φ 31.75* (φ 31.75 - φ 34.9)	φ 38.1* (φ 38.1 - φ 41.3)	φ 38.1* (φ 38.1 - φ 41.3)		φ 38.1* (φ 38.1 - φ 41.3)	φ 38.1* (φ 38.1 - φ 41.3)	φ 38.1* (φ 38.1 - φ 41.3)	φ 38.1* (φ 38.1 - φ 41.3)	φ 38.1* (φ 38.1 - φ 41.3)	φ 38.1* (φ 38.1 - φ 41.3)	φ 38.1* (φ 38.1 - φ 41.3)
Gas Line High Pressure	mm	φ 28.6* (φ 28.6 - φ 31.75)	φ 28.6* (φ 28.6 - φ 31.75)	φ 28.6* (φ 28.6 - φ 31.75)	φ 31.75* (φ 31.75 - φ 34.9)	φ 31.75* (φ 31.75 - φ 34.9)		φ 31.75* (φ 31.75 - φ 34.9)	φ 31.75* (φ 31.75 - φ 34.9)	φ 31.75* (φ 31.75 - φ 34.9)	φ 31.75* (φ 31.75 - φ 34.9)	φ 31.75* (φ 31.75 - φ 34.9)	φ 31.75* (φ 31.75 - φ 34.9)	φ 31.75* (φ 31.75 - φ 34.9)
Refrigerant Charge	kg	18.0	19.5	21.0	23.0	23.0		24.5	26.5	26.5	28.0	30.0	30.0	31.5
Packing Dimensions														
Height x Width x Depth	mm	-	-	-	-	-		-	-	-	-	-	-	-
Approximate Packing Measurement	m ³	-	-	-	-	-		-	-	-	-	-	-	-

NOTES:

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

Cooling Operation Conditions

Indoor Air Inlet Temperature: 27°C DB (80°F DB)
19.0°C WB (66.2°F WB)
Outdoor Air Inlet Temperature: 35°C DB (95°F DB)
Piping Length: 7.5 Meters Piping Lift: 0 Meter

Heating Operation Conditions

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

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

1 Meter from the unit service cover surface, and 1.5 Meters from floor level. The above data is based on the cooling mode. In case of heating mode, the sound pressure level increases by approximately 1~2 dB. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

3. * If the specified main refrigerant piping on the table is not available on site, follow the allowable piping size in parentheses. When using the main refrigerant piping indicated in parentheses, prepare an appropriate reducer on site.

4. Except for the specified combination in the table (20~30HP), there is no other combination of the base unit.

5. The width of outer dimension, it is the value when each distance between the base outdoor units is specified to 20mm.



Motion Sensor Control

The air conditioning capacity is saved automatically depending on a situation and detecting amount of human activity by adopting the motion sensor on the corner of the air panel. The energy-saving can be improved more with the individual operating function. In addition, the operation can be stopped automatically if the absent situation continues for more than 30 minutes*1. The motion sensor allows maintaining the comfortable indoor environment and eliminating the unnecessary operation*2.

*1): The default setting is "30 minutes". However, the setting is changeable.

*2): The default setting is "Running Operation". However, "Automatic Stop" can be selected by setting

*3): The detecting area becomes smaller if the human motion is few such as stretching on a chair, etc.

Specifications

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 1 φ, 220-240V / 50Hz, 220V / 60Hz								
Nominal Cooling Capacity *1)	kW kcal/h Btu/h	2.9 2,500 9,900	4.1 3,550 14,100	5.8 5,000 19,800	7.3 6,300 25,000	8.3 7,100 28,200	11.6 10,000 39,700	14.5 12,500 49,600	16.5 14,200 56,300
Nominal Cooling Capacity *2)	kW kcal/h Btu/h	2.8 2,400 9,600	4.0 3,400 13,600	5.6 4,800 19,100	7.1 6,100 24,200	8.0 6,900 27,300	11.2 9,600 38,200	14.0 12,000 47,800	16.0 13,800 54,600
Nominal Heating Capacity	kW kcal/h Btu/h	3.2 2,800 10,900	4.8 4,100 16,400	6.3 5,400 21,500	8.5 7,300 29,000	9.0 7,700 30,700	12.5 10,700 42,600	16.0 13,800 54,600	18.0 15,500 61,400
Sound Pressure Level (Overall A Scale) Hi2/Hi/Me/Lo	dB	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
Dimensions H x W x D	mm	248 x 840 x 840			298 x 840 x 840				
Net Weight	kg	20	21	22	26				
Refrigerant		R410A							
Air Flow Rate Hi2/Hi/Me/Lo	m³/min. (cfm)	15/13/11/9 (530/459/388/318)	21/17/14/11 (741/600/494/388)	21/17/14/11 (777/600/494/388)	27/23/18/14 (953/812/635/494)	37/31/24/20 (1,306/1,094/847/706)	37/33/26/21 (1,306/1,165/918/741)	37/35/28/22 (1,306/1,236/988/777)	
Motor	W	57			127				
Connections Liquid / Gas	mm	φ 6.35 / φ 12.7		φ 6.35 / φ 15.88	φ 9.52 / φ 15.88				
Condensate Drain		VP25							
Approximate Packing Measurement	m³	0.21			0.25				
Adaptable Panel Model		P-AP160NA1 (without Motion Sensor) / P-AP160NAE (with Motion Sensor)							
Color		Natural White							
Dimensions H x W x D	mm	37 x 950 x 950							
Net Weight	kg	6.5							
Approximate Packing Measurement	m³	0.10							

NOTES:

1. The nominal cooling and heating 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°C DB (80°F DB)
 *1) 19.5°C WB (67°F WB)
 *2) 19.0°C WB (66.2°F WB)
 Outdoor Air Inlet Temperature: 35°C DB (95°F DB)

Heating Operation Conditions

Indoor Air Inlet Temperature: 20°C DB (68°F DB)
 Outdoor Air Inlet Temperature: 7°C DB (45°F DB)
 6°C WB (43°F WB)
 Piping Length: 7.5 Meters
 Piping Lift: 0 Meter

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

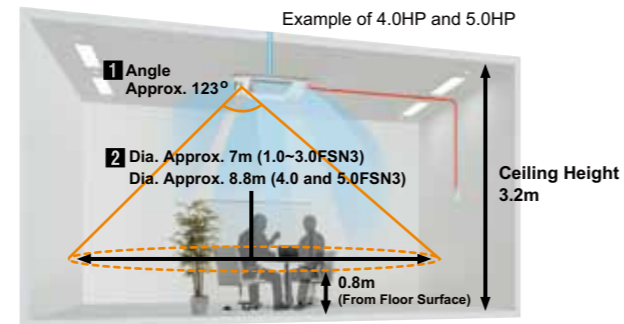
1.5 Meters Beneath the Unit. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

NEW

Indoor Units

4-Way Cassette Type

Detecting Area



In the case of the ceiling height is 3.2m.

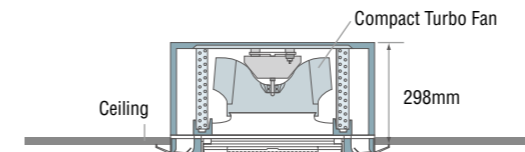
Adopting New Structured Silky Flow Louver

The new structured silky flow louver is adopted to soften the discomfort by the temperature irregularity and the cold draft. The individual control setting for each louver is available.



Low-profile design allows installation in a small space inside of ceiling

A compact turbo fan simplifies the structure and reduces the height to 298 mm, for easy installation.



Specifications

Model	RCI-1.0FSN2	RCI-1.5FSN2	RCI-2.0FSN2	RCI-2.5FSN2	RCI-3.0FSN2	RCI-4.0FSN2	RCI-5.0FSN2	
Indoor Unit Power Supply	AC 1 φ, 220-240V / 50Hz, 220V / 60Hz							
Nominal Cooling Capacity *1)	kW kcal/h Btu/h	2.9 2,500 9,900	4.1 3,550 14,100	5.8 5,000 19,800	7.3 6,300 25,000	8.3 7,100 28,200	11.6 10,000 39,700	14.5 12,500 49,600
Nominal Cooling Capacity *2)	kW kcal/h Btu/h	2.8 2,400 9,600	4.0 3,400 13,600	5.6 4,800 19,100	7.1 6,100 24,200	8.0 6,900 27,300	11.2 9,600 38,200	14.0 12,000 47,800
Nominal Heating Capacity	kW kcal/h Btu/h	3.2 2,800 10,900	4.8 4,100 16,400	6.3 5,400 21,500	8.5 7,300 29,000	9.0 7,700 30,700	12.5 10,700 42,600	16.0 13,800 54,600
Sound Pressure Level (Overall A Scale) Hi/Me/Lo	dB	34/32/30	35/32/30		38/34/31		40/36/33	43/40/36
Dimensions H x W x D	mm	298 x 860 x 620					298 x 1,420 x 620	
Net Weight	kg	27			30		48	
Refrigerant		R410A / R407C / R22 (Nitrogen-Charged for Corrosion-Resistance)						
Air Flow Rate Hi/Me/Lo	m³/min. (cfm)	10/9/8 (353/318/282)	13/11/9 (459/388/318)	15/13/11 (530/459/388)	19/16/14 (671/565/494)		29/24/21 (1,024/847/742)	34/29/25 (1,201/1,024/883)
Motor	W	35			55		35 x 2	55 x 2
Connections Liquid / Gas	mm	φ 6.35 / φ 12.7		φ 6.35 / φ 15.88		φ 9.53 / φ 15.88		
Condensate Drain		VP25						
Approximate Packing Measurement	m³	0.23					0.37	
Adaptable Panel Model		P-N23DNA					P-N46DNA	
Color		Neutral White						
Dimensions H x W x D	mm	30 x 1,100 x 710					30 x 1,660 x 710	
Net Weight	kg	6					8	
Approximate Packing Measurement	m³	0.10					0.15	

NOTES:

1. The nominal cooling and heating 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°C DB (80°F DB)
 *1) 19.5°C WB (67°F WB)
 *2) 19.0°C WB (66.2°F WB)
 Outdoor Air Inlet Temperature: 35°C DB (95°F DB)

Heating Operation Conditions

Indoor Air Inlet Temperature: 20°C DB (68°F DB)
 Outdoor Air Inlet Temperature: 7°C DB (45°F DB)
 6°C WB (43°F WB)
 Piping Length: 7.5 Meters
 Piping Lift: 0 Meter

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

1.5 Meters Beneath the Unit. Voltage of the power source for the indoor fan motor is 220V. In case of the power source of 240V, the sound pressure level increases by about 1dB. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

3. *3) In case of using R407C or R22, use the accessory adaptor and φ 19.05 piping.



Indoor Units

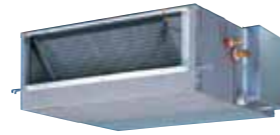
In-the-ceiling Type

Broader range of external static pressure. Flexibly supports a wide range of installation conditions at site, e.g. longer ducts

In addition to the standard Hi-Me-Lo, the speed-up tap can be set by remote control. Available for external static pressure of up to 80 Pa for 0.8-2.5 HP and 170 Pa for 3-5 HP.

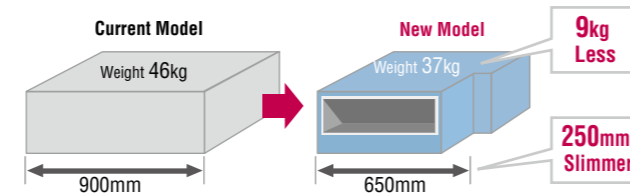
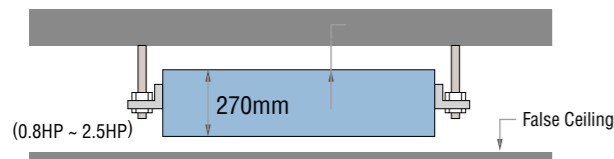
3.0HP model downsized

The width is 250mm Slimmer and the weight 9kg lighter than the current model, thus delivery and installation is easier.



Space-saving Design

Less than 270 mm in height, this unit can be fit into practically any previously existing false ceiling or formerly ducted space without substantial modification (0.8-2.5HP).



Specifications

Model	RPI-0.8FSN2	RPI-1.0FSN2	RPI-1.5FSN2	RPI-2.0FSN2	RPI-2.5FSN2	RPI-3.0FSN2	RPI-4.0FSN2	RPI-5.0FSN2	RPI-8FSN	RPI-10FSN		
Indoor Unit Power Supply	AC 1 φ, 220-240V / 50Hz, 220V / 60Hz								AC 3 φ 4W, 380-415V / 50Hz, 380V / 60Hz			
Nominal Cooling Capacity *1)	kW	2.3	2.9	4.1	5.8	7.3	8.3	11.6	14.5	23.3	29.1	
	kcal/h Btu/h	2,000 7,900	2,500 9,900	3,550 14,100	5,000 19,800	6,300 25,000	7,100 28,200	10,000 39,700	12,500 49,600	20,000 79,400	25,000 99,200	
Nominal Cooling Capacity *2)	kW	2.2	2.8	4.0	5.6	7.1	8.0	11.2	14.0	22.4	28.0	
	kcal/h Btu/h	1,900 7,500	2,400 9,600	3,400 13,600	4,800 19,100	6,100 24,200	6,900 27,300	9,600 38,200	12,000 47,800	19,300 76,400	24,100 95,500	
Nominal Heating Capacity	kW	2.5	3.2	4.8	6.3	8.5	9.0	12.5	16.0	25.0	31.5	
	kcal/h Btu/h	2,100 8,500	2,800 10,900	4,100 16,400	5,400 21,500	7,300 29,000	7,700 30,700	10,700 42,600	13,800 54,600	21,500 85,300	27,100 107,500	
Sound Pressure Level (Overall A Scale) Hi/Me/Lo	dB	35/33/31			36/34/32		42/39/35	43/40/36	44/41/37	45(42)*	52(50)*	
Dimensions H x W x D	mm	270 x (650+75) x 720		270 x (900+75) x 720		350 x (650+75) x 800	350 x (900+75) x 800	350 x (1,300+75) x 800	470 x 1,250 x 1,120			
Net Weight	kg	26		35		37	46	58	100			
Refrigerant		R410A / R407C / R22 (Nitrogen-Charged for Corrosion-Resistance)										
Air Flow Rate Hi/Me/Lo	m ³ /min. (cfm)	8/7/6 (283/247/212)		13/11/9 (459/388/318)		15/13/11 (530/459/388)	16/14/12 (565/494/424)	19/17/14 (671/600/494)	27/23/19 (954/812/671)	37/31/25 (1,306/1,095/883)	58 (58)* (2,048 (2,048)*)	72 (72)* (2,542 (2,542)*)
External Pressure		50 (80-30)*3		75		150	290	220 (110)* / 260 (130)* *4	760 (510)* / 1,080 (810)*			
Motor	W	60		75		150	290	760 (510)*	1,080 (810)*			
Connections		Flare-Nut Connection (With Flare Nuts)										
	Liquid / Gas	φ 6.35		φ 6.35		φ 9.53	φ 9.53	φ 9.53	φ 9.53 ⁶⁾	φ 9.53 ⁶⁾		
Condensate Drain		VP25										
Approximate Packing Measurement	m ³	0.21		0.27		0.29	0.38	0.52	1.06	1.06		

NOTES:

- The nominal cooling and heating 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:	Indoor Air Inlet Temperature:
*1) 27°C DB (80°F DB)	20°C DB (68°F DB)
*2) 19.5°C WB (67°F WB)	7°C DB (45°F DB)
19.0°C WB (66.2°F WB)	6°C WB (43°F WB)
Outdoor Air Inlet Temperature:	Outdoor Air Inlet Temperature:
35°C DB (95°F DB)	35°C DB (95°F DB)
- The sound pressure level is based on following conditions. 1.5 Meter Beneath the Unit. With Discharge Duct (2.0m) and Return Duct (1.0m).
0.8-5.0FSN2: 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.
8 and 10FSN: Voltage of the power source for the indoor fan motor is 380V. In case of the power source of 415V, the sound pressure level increases by about 2dB.
The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.
- The values with () * of sound pressure level, air flow rate, external pressure and motor output indicate the values in case of external pressure setting at 110Pa (130Pa for 410V).
- The data for external pressure *3) indicates "Standard Pressure Setting (High Pressure Setting - Low Pressure Setting)" values when a filter is not used.
The data for external pressure *4) indicates the values when a filter is not used.
- *5) In case of using R407C or R22, use the accessory adaptor and φ 19.05 piping. *6) In case of using R407C or R22, use the accessory reducer and φ 12.7 piping.
*7) In case of using R407C or R22, use the accessory reducer and φ 25.4 piping. *8) In case of using R407C or R22, use the accessory reducer and φ 28.6 piping.



Indoor Units

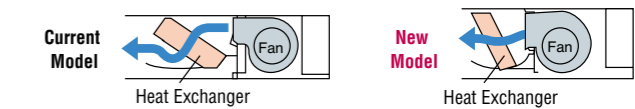
Ceiling Type

Simple Installation and Maintenance

- Installation time is much shorter. *By 30% (Hitachi's comparison)
- A long-life filter (mildew-proof) is fitted as standard. No maintenance is required for about 2,500 hours of operation. *For ordinary offices

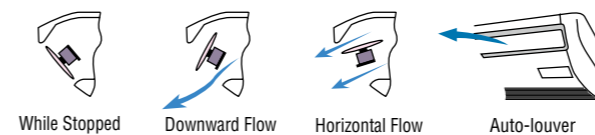
Noise and vibration drastically reduced by our original design

The large fan and improved resistance of the air-flow path lower the r.p.m. of the blower, thus reducing noise and vibration.



Amenity improved by auto-louver at air opening

The round, lower part of the air opening complements the gentle, quiet operation. The auto-louver in the upper part of the opening automatically controls upward and downward motion of air flow, while the grille serves as a shutter when stopped.



Each part of the system is fully functional

The wireless light receiver kit (option) can be installed easily through the hole in the lower cover.

Specifications

Model	RPC-2.0FSN2	RPC-2.5FSN2	RPC-3.0FSN2	RPC-4.0FSN2	RPC-5.0FSN2		
Indoor Unit Power Supply	AC 1 φ, 220-240V / 50Hz, 220V / 60Hz						
Nominal Cooling Capacity *1)	kW	5.8	7.3	8.3	11.6	14.5	
	kcal/h Btu/h	5,000 19,800	6,300 25,000	7,100 28,200	10,000 39,700	12,500 49,600	
Nominal Cooling Capacity *2)	kW	5.6	7.1	8.0	11.2	14.0	
	kcal/h Btu/h	4,800 19,100	6,100 24,200	6,900 27,300	9,600 38,200	12,000 47,800	
Nominal Heating Capacity	kW	6.3	8.5	9.0	12.5	16.0	
	kcal/h Btu/h	5,400 21,500	7,300 29,000	7,700 30,700	10,700 42,600	13,800 54,600	
Sound Pressure Level (Overall A Scale) Hi/Me/Lo	dB	40/37/34			44/41/38		
Cabinet Color	Silky White						
Dimensions H x W x D	mm	210 x 1,100 x 670		210 x 1,320 x 670	270 x 1,320 x 670	270 x 1,580 x 670	
Net Weight	kg	26		30	34	42	
Refrigerant		R410A / R407C / R22 (Nitrogen-Charged for Corrosion-Resistance)					
Air Flow Rate Hi/Me/Lo	m ³ /min. (cfm)	14/12/10 (494/424/353)		18/15/12 (636/530/424)		25/21/18 (883/742/636)	33/28/23 (1,165/989/812)
Motor	W	35		50	95	135	
Connections		Flare-Nut Connection (With Flare Nuts)					
	Liquid / Gas	φ 6.35 / φ 15.88		φ 9.53 / φ 15.88		φ 9.53 / φ 15.88 ³⁾	
Condensate Drain		VP20					
Approximate Packing Measurement	m ³	0.30		0.36	0.43	0.50	
Standard Accessories		Mounting Bracket					

NOTES:

- The nominal cooling and heating 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:	Indoor Air Inlet Temperature:
*1) 27°C DB (80°F DB)	20°C DB (68°F DB)
*2) 19.5°C WB (67°F WB)	7°C DB (45°F DB)
19.0°C WB (66.2°F WB)	6°C WB (43°F WB)
Outdoor Air Inlet Temperature:	Outdoor Air Inlet Temperature:
35°C DB (95°F DB)	35°C DB (95°F DB)
- The sound pressure level is based on following conditions. 1 Meter Beneath the Unit and 1 Meter from Discharge Grille.
Voltage of the power source for the indoor fan motor is 220V. In case of the power source of 240V, the sound pressure level increases by about 1dB.
The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.
- *3) In case of using R407C or R22, use the accessory adaptor and φ 19.05 piping.



Indoor Units Wall Type

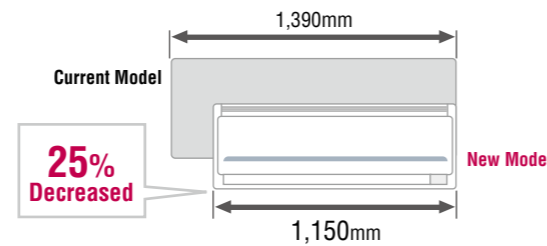


User Friendly

Easy switching from wireless to wired remote controller by Dip Switch built-in the receiver part. All alarm code is displayed when using wireless remote controller by combining the flashing times of "Timer", "Filter/Defrosting". (All models)

Top-Class Compact and Light Weight Design

More Choice to select the installation place thanks to the reduction of wideness in 2.5, 3.0 and 4.0HP



NEW LINE-UP
RPK-1.0FSNSH2
RPK-1.5FSNSH2 (Built-to-order)

Reducing Noise by Adopting Distinctive Technology

You can select the new lineup of indoor unit wall type without expansion valve and electronic expansion valve kit according to your preference. The continuous refrigerant running noise from the indoor unit can be reduced by installing the expansion valve away from the living room such as in a false ceiling of the hallway.

Specifications

Model	RPK-1.0FSNSM2	RPK-1.5FSNSM2	RPK-2.0FSNSM2	RPK-2.5FSNSM2	RPK-3.0FSNSM2	RPK-4.0FSNSM2	
Indoor Unit Power Supply	AC 1 φ, 220-240V / 50Hz, 220V / 60Hz						
Nominal Cooling Capacity *1)	kW kcal/h Btu/h	2.9 2,500 9,900	4.1 3,550 14,100	5.8 5,000 19,800	7.3 6,300 25,000	8.3 7,100 28,200	11.6 10,000 39,700
Nominal Cooling Capacity *2)	kW kcal/h Btu/h	2.8 2,400 9,600	4.0 3,400 13,600	5.6 4,800 19,100	7.1 6,100 24,200	8.0 6,900 27,300	11.2 9,600 38,200
Nominal Heating Capacity	kW kcal/h Btu/h	3.2 2,800 10,900	4.8 4,100 16,400	6.3 5,400 21,500	8.5 7,300 29,000	9.0 7,700 30,700	12.5 10,700 42,600
Sound Pressure Level (Overall A Scale) Hi/Me/Lo	dB	38/36/34	40/38/36	41/39/37	43/40/37		49/46/43
Cabinet Color		White					
Dimensions H x W x D	mm	280 x 780 x 210		295 x 1,030 x 208		333 x 1,150 x 245	
Net Weight	kg	10		12		18	
Refrigerant		R410A / R407C / R22 (Nitrogen-Charged for Corrosion-Resistance)					
Air Flow Rate Hi/Me/Lo	m ³ /min. (cfm)	10/8/7 (353/283/247)	11/10/9 (388/353/318)	14/12/10 (494/424/353)	17/16/14 (600/565/494)	22/20/17 (777/706/600)	
Motor	W	20		30			
Connections Liquid / Gas	mm	φ 6.35 / φ 12.7		φ 6.35 / φ 15.88 or φ 12.7*3)		φ 9.53 / φ 15.88	
Condensate Drain		VP16					
Approximate Packing Measurement	m ³	0.07		0.11		0.13	
Standard Accessories		Wall Mounting Bracket					

- NOTES:**
- The nominal cooling and heating 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°C DB (80°F DB)	Indoor Air Inlet Temperature: 20°C DB (68°F DB)
*1) 19.5°C WB (67°F WB)	Outdoor Air Inlet Temperature: 7°C DB (45°F DB)
*2) 19.0°C WB (66.2°F WB)	6°C WB (43°F WB)
Outdoor Air Inlet Temperature: 35°C DB (95°F DB)	Piping Length: 7.5 Meters
	Piping Lift: 0 Meter
 - The sound pressure level is based on the following conditions measured.
 - 1 Meter Beneath the Unit and 1 Meter from Inlet Grille.
 - The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.
 - *3) The refrigerant piping size may be required to change depending on the outdoor unit to be connected.
 - If φ 12.7 pipe is used at the gas side, remove the flare adaptor at the indoor unit gas piping. Then attach the flare nut (accessory) for pipe connection.

Indoor Units

Floor Type Floor Concealed Type



Space-saving slim unit, only 220 mm in depth

Slim line design only 220 mm in depth, allowing it to be installed without spoiling the style or beauty of the room.

Effective Use of Space by Window

With a height of 630 mm, may be installed by a window leaving plenty of window space. Best installed in a perimeter zone.

So compact that it fits into even a tiny space.

Special emphasis placed on interior design compatibility as well as space saving design, allowing it to fit perfectly into the space below a bay window.

Specifications

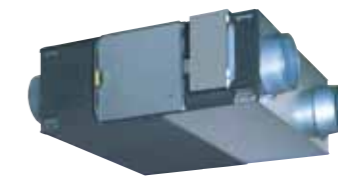
Model	Floor Type		Floor Concealed Type		
	RPF-1.0FSN2E	RPF-1.5FSN2E	RPFI-1.0FSN2E	RPFI-1.5FSN2E	
Indoor Unit Power Supply	AC 1 φ, 220-240V / 50Hz, 220V / 60Hz				
Nominal Cooling Capacity *1)	kW kcal/h Btu/h	2.9 2,500 9,900	4.1 3,550 14,100	2.9 2,500 9,900	4.1 3,550 14,100
Nominal Cooling Capacity *2)	kW kcal/h Btu/h	2.8 2,400 9,600	4.0 3,400 13,600	2.8 2,400 9,600	4.0 3,400 13,600
Nominal Heating Capacity	kW kcal/h Btu/h	3.2 2,800 10,900	4.8 4,100 16,400	3.2 2,800 10,900	4.8 4,100 16,400
Sound Pressure Level (Overall A Scale) Hi/Me/Lo	dB	35/32/29	38/35/31	35/32/29	38/35/31
Cabinet Color		Spring White			
Dimensions H x W x D	mm	630 x 1,045 x 220	630 x 1,170 x 220	620 x 848 x 220	620 x 973 x 220
Net Weight	kg	25	28	19	23
Refrigerant		R410A / R407C / R22 (Nitrogen-Charged for Corrosion-Resistance)			
Air Flow Rate Hi/Me/Lo	m ³ /min. (cfm)	8.5/7/6 (300/247/212)	12/10/9 (424/353/318)	8.5/7/6 (300/247/212)	12/10/9 (424/353/318)
Motor	W	20	28	20	28
Connections Liquid / Gas	mm	Flare-Nut Connection (With Flare Nuts) φ 6.35 / φ 12.7			
Condensate Drain		18.5 OD			
Approximate Packing Measurement	m ³	0.26	0.29	0.20	0.23

- NOTES:**
- The nominal cooling and heating 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°C DB (80°F DB)
*1) 19.5°C WB (67°F WB)
*2) 19.0°C WB (66.2°F WB)
Outdoor Air Inlet Temperature: 35°C DB (95°F DB)
Heating Operation Conditions
Indoor Air Inlet Temperature: 20°C DB (68°F DB)
Outdoor Air Inlet Temperature: 7°C DB (45°F DB)
6°C WB (43°F WB)
Piping Length: 7.5 Meters
Piping Lift: 0 Meter
 - The sound pressure level is based on the following conditions.
 - 1.5 Meters from the Unit and 1.5 Meters from Floor Level.
 - The left data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

System Equipment

Total Heat Exchanger



Specifications

Model	KPI-2521	KPI-5021	KPI-8021	KPI-10021	
Indoor Unit Power Supply	AC 1 φ, 220-240V / 50Hz, 220V / 60Hz				
Air Flow Rate	50Hz	250/250/165	500/500/350	800/800/670	1,000/1,000/870
Hi/Me/Lo	60Hz	250/250/150	500/500/300	800/800/660	1,000/1,000/720
External Pressure *1)	50Hz	65/40/20	150/60/30	140/100/70	160/100/80
Hi/Me/Lo	60Hz	100/50/20	200/60/20	230/120/80	200/110/60
Sound Pressure Level (Overall A Scale) at 1.5m from the unit under *2) *3)	50Hz	26.5-27.5/25-26/21-22	32.5-33.5/30-31/23.5-24.5	33.5-34.5/32-33/30-31	36-37/34-35/31.5-32.5
Hi/Me/Lo	60Hz	28.5/25.5/21	32.5/28.5/23	35/31/29	36/34/30
Dimensions H x W x D	mm	275 x 735 x 780	317 x 1,016 x 888	398 x 1,004 x 1,164	398 x 1,231 x 1,164
Net Weight	kg	21	33	61	72
Approximate Packing Measurement	m ³	0.26	0.46	0.70	0.84

- NOTES:**
- Use it under the following conditions. KPI-8021: 29Pa or more, KPI-10021: 49Pa or more
 - The sound pressure level is based on following conditions.
 - 1.5 Meter beneath the unit and this data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.
 - *3. The sound pressure level is based on the total heat exchange mode. In case of the bypass ventilation mode, the sound pressure level is increased by approximately 1dB(A).

Optional Parts

Indoor Units

4-Way Cassette Type

HP	1.0 ~ 2.5	3.0 ~ 6.0
Air Panel	P-AP160NA1/P-AP160NAE	
3-Way Outlet Parts Set	PI-160LS1	
Kit for Deodorant Filter	F-71L-D1	F-160L-D1
Deodorant Filter Filter Box	B-160H2	
Antibacterial Long-life Filter	F-160L-K	
Fresh Air Intake Kit *1	OACI-160K2	
T-Pipe Connection Kit *2	TKCI-160K	
Duct Adapter *3	PD-75A (φ75)	

2-Way Cassette Type

HP	1.0 ~ 3.0	4.0 and 5.0
Air Panel	P-N23DNA	P-N46DNA
Receiver Kit for Wireless Control	PC-ALHD	
Kit for Deodorant Filter	F-23LD4-D	F-46LD4-D
Deodorant Filter Filter Box	B-23HD4	B-46HD4
Antibacterial Long-life Filter	F-23LD4-K	F-46LD4-K
Fresh Air Intake Kit *1	OACID-231	OACID-461
Box Connection Kit *4	TBCID-1	

In-the-ceiling Type

HP	0.8 ~ 1.5	2.0 and 2.5	3.0	4.0	5.0	8 and 10
Long-Life Filter Kit Long-Life Filter	F-15LI3C	F-23LI3C	F-23LI3	F-34LI3	F-46LI3	-
Filter Box	B-15MI3C	B-23MI3C	B-23MI3	B-34MI3	B-46MI3	-
Drain-up Mechanism Kit	Standard	DUPI-132C	DUPI-162			DU-M280PIS
Receiver Kit for Wireless Control	PC-ALHZ					

Floor and Ceiling Types

HP	RPF(I)	RPC
	1.0 and 1.5	2.0 ~ 5.0
Receiver Kit for Wireless Control	PC-ALHZ	PC-ALHP

NOTES: *1. It is necessary to use the Fresh Air Intake Kit to connect the fresh air intake duct to the unit. *2. Used when two air intakes (φ 100 x 2) of the Fresh Air Intake Kit are changed to one air intake (φ 150 x 1). *3. Used when fresh air intake duct are connected to the indoor unit directly. *4. Used when both of the Fresh Air Intake Kit and Filter Box are used.

Piping Connection Kit

Item	Operation Type	Applicable Outdoor Unit		Model	Piping Set	Remarks
		Outdoor Unit HP	Connectivity Number			
Piping Connection Kit	for 2 Pipe Heat Pump Operation	20 to 24	2	MC-20AN	1 Set	2 pipes type • for Gas: 1 set • for Liquid: 1 set
		26 to 36	2	MC-21AN	1 Set	
	38 to 54	3	MC-30AN	2 Set		
	for Heat Recovery Operation	20 to 24	2	MC-20XN	1 Set	
26 to 36		2	MC-21XN	1 Set		
38 to 54	3	MC-30XN	2 Set			
38 to 54	3	MC-30XN	2 Set			

Strainer Kit

Product Name	Model
Strainer Kit	MEF-NP1500A

Multi-kits

Multi-kit for 2 Pipe Heat Pump Operation

< Line Branch >		< Header Branch >		
Outdoor Unit HP	Model	Total Indoor Unit HP	No. of Header Branches	Model
8 and 10	MW-102AN	5 to 8	4	MH-84AN
12 to 16	MW-162AN	5 to 10	8	MH-108AN
18 to 24	MW-242AN			
26 to 54	MW-302AN			

Multi-kit for Heat Recovery Operation

< Line Branch >		< Header Branch >		
Outdoor Unit HP	Model	Total Indoor Unit HP	No. of Header Branches	Model
8 and 10	MW-102XN	5 to 10	8	MH-108XN
12 to 16	MW-162XN			
18 and 20	MW-202XN			
22 and 24	MW-242XN			
26 to 54	MW-322XN			

NOTE: After the second branch, please refer to the technical manual.

Control System

		RCI-FSN3	RCD-FSN2	RPI-FSN(2)	RPC-FSN2	RPK-FSNSM2	RPF(I)-FSN2E	KPI
Remote Control Switch	PC-AR*1 (Without cable)	×	●	●	●	●	●	●
	PC-ARF	●*5	●	●	●	●	●	●
Wireless Remote Control Switch	PC-LH3A	×	●	●	●	●	●	×
Half-size Remote Control Switch	PC-ARH*2	×	●	●	●	●	●	×
7-Day Timer	PSC-A1T*3	●	●	●	●	●	●	×
Central Station	PSC-5S, PSC-A64S*4	●*6	●	●	●	●	●	●
Central Station DX	PSC-128WX + PSC-AS2048WXB	●*6	●	●	●	●	●	●
Centralized ON/OFF Controller	PSC-A16RS	●	●	●	●	●	●	●
Remote Control Cable	PRC-5K,10K,15Kfor PC-AR	●	●	●	●	●	●	●
3P Connector Cable	PCC-1A	●	●	●	●	●	●	●
Remote Sensor	THM-R2A	●	●	●	●	×	●	×
P/C Network System CS-NET	PSC-6WTX	●	●	●	●	●	●	×

NOTES: *1. As the PC-AR does not include a remote control cable, prepare one in the field, or use PRC-5K, 10K, or 15K. *2. Make sure that it is used with PC-AR or CS-NET. *3. Scheduled operation is possible by using in combination with Central Station, Remote Control Switch and Centralized ON/OFF Controller. *4. Supply 220V or 240V. *5. When FSN3 4-way cassette type indoor unit is used with the remote control switch, PC-ARF must be used. *6. These central stations are not supported the air flow volume function "HIGH 2" of FSN3 4-way cassette type. Therefore, when FSN3 4-way cassette type indoor unit is used with the central stations, the remote control switch (PC-ARF) must be required.

Remote Controllers

Remote Control Switch

PC-ARF

Compatible with the H-LINK II

- The newly adopted LED-backlit LCD provides enhanced legibility. Large, clear character display is realized by Full Dot Matrix LCD.
- The newly adopted directional key provides optimized operation. The manual operation is facilitated by reducing number of switch buttons from 13 to 9.
- "Schedule Timer" provides the timer operations for "Run/Stop" and "Temperature Setting". The weekly management is available by using this function. In addition "Holiday Setting" and "Schedule ON/OFF" setting are available.
- 4 type of menus are offered for flexible use as follows:
 - Menu:** Contains "Schedule", "Elevating Grill", etc. for users.
 - Help Menu:** Contains information provided by this remote control switch for users such as "About Indication", "Contact Information", etc.
 - Test Run Menu:** This menu provides the functions installation of this remote control switch.
 - Check Menu:** This menu provides the functions for service and maintain



NEW

Remote Control Switch

PC-AR

Compatible with the H-LINK II

- The PC-AR has a design that matches the interior.
- The new large LCD display permits users to see the operating conditions and settings.
- The timer can be set at half-hour intervals up to 72 hours.
- All the functions can be selected by remote control switches.
- The PC-AR monitors the operating conditions in the system and an alarm is issued if a problem occurs.
- A "self-diagnosis function" checks for problems on printed boards in indoor and outdoor units.
- Equipped with energy-saving functions such as a preset temperature range limiting function for preventing excessive cooling/heating and a preset temperature automatic reset function, as well as an operation locking mechanism and the capability to prevent users from forgetting to turn off the system. (Function selection setting is required)



Wireless Remote Control Switch

PC-LH3A

Compatible with the H-LINK II

- One-touch handy operation, no wiring work required.
- Two or more units can be operated simultaneously by remote control. * Receiver kit is required.



Half-size Remote Control Switch

PC-ARH

Compatible with the H-LINK II

- The main function of this easy-to-use remote control system is temperature setting.
- Operation modes can be switched over (when function selection setting is made).
- Suitable for facilities used by various people, such as hotels.
- "2 remote control" or "group control" (up to 16 max.) can be used.
- If a problem occurs, an alarm code immediately shows the details of the problem.



7 Day Timer

PSC-A1T

Compatible with the H-LINK II

- By using with PSC-5S, PSC-A64S and PC-AR controllers, the air conditioners controlled by them can be operated according to a schedule.
- The timer can be set at 7-day intervals, and operation/stop can be set 3 times daily.
- Remote control can be prohibited in accordance with the OFF time (when used with PSC-5S, PSC-A64S and PC-AR).
- Two types of weekly schedule (A and B) can be set, and can easily be changed for summer and winter.
- Settings are all digitally displayed, allowing operations and settings to be checked easily.
- The power failure backup function prevents the timer from being stopped by a power failure lasting up to 2 weeks.



Central Station

PSC-A64S

Compatible with the H-LINK II

Up to 160 indoor units

Up to 64 remote control groups

- By connecting to the H-LINK, up to 64 remote control groups and 160 indoor units can be controlled. Up to 8 units can be connected to the H-LINK.
- In addition to basic control, such as settings for operation/stop, the operation mode and temperature, the air quantity and auto louver can be set. If a problem occurs, an alarm code immediately shows the details of the problem.
- An external input terminal is provided as standard. External signals enable the following functions: central operation/stop, demand control, emergency stop, central operation output, and central alarm output.
- Can be used in combination with the One-touch Controller.



PSC-5S

Up to 128 indoor units

Up to 16 remote control groups

Centralized ON/OFF Controller

PSC-A16RS

Compatible with the H-LINK II

Up to 160 indoor units

Up to 16 remote control groups

- Only performs operation/stop control per remote control group.
- By connecting to the H-LINK, up to 16 remote control groups and 160 indoor units can be controlled. Up to 8 units can be connected to the H-LINK.
- An external input terminal is provided as standard. External signals enable the following functions: central operation/stop, emergency stop, central operation output, central alarm output
- Can be used in combination with the Central Station.

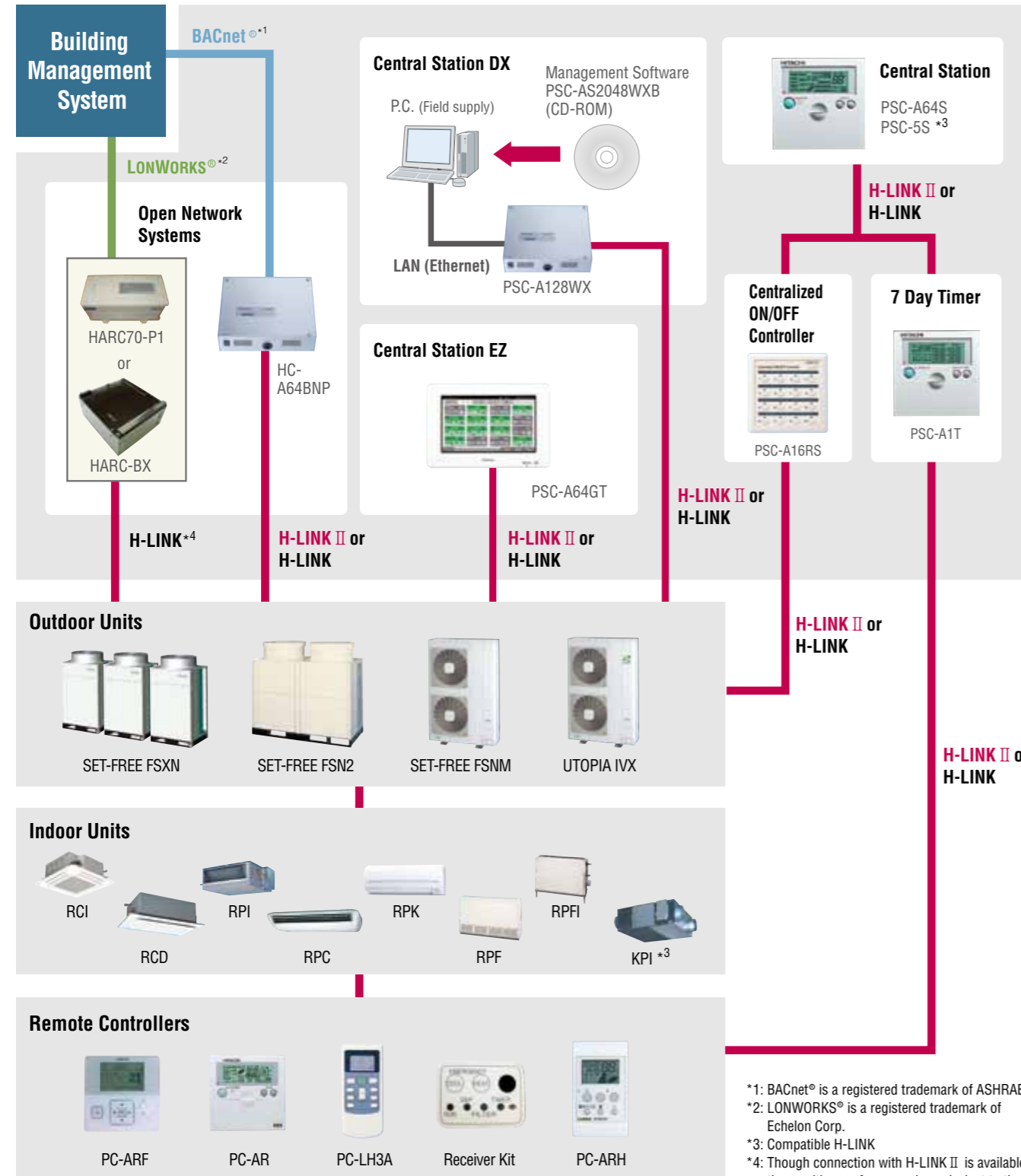


* Make sure to use it with a remote control switch. Indoor units cannot be used without a remote control switch. * There are restrictions on remote group registration. Please contact our sales staff for more information.

Network Systems

CS-NET

CS-NET is Hitachi's computer control network system for the SET-FREE FS series, SET-FREE FSNM and UTOPIA ranges. The flexibility of the SET-FREE system allows the internal data to be easily accessed and controlled by the user, with features including temperature, mode and fan speed setting and groupings.



*1: BACnet® is a registered trademark of ASHRAE.
 *2: LONWORKS® is a registered trademark of Echelon Corp.
 *3: Compatible H-LINK
 *4: Though connection with H-LINK II is available, the resulting performance is equivalent to that of the H-LINK specifications.

Interface (Option)

You can select the air conditioner control interface depending on your needs to create a comfortable space.

HC-A64BNP (for BACnet®)



Connecting the HC-A64BNP to an H-LINK (communication line between machines) allows the use of up to 8 refrigerant cycles and control of up to 64 indoor units. Up to eight HC-A64BNP can be connected to the same H-LINK.

Connection Method to Upper System	• Connection by IEEE802.3 Compliance (100BASE-TX/10BASE-T) to BACnet® Network
Quantity of Connection	• Up to 64 Indoor Units per BACnet® Adaptor
Control Item at Upper System	<ul style="list-style-type: none"> • RUN/STOP • Operation Mode Setting • Temperature Setting • Fan Speed Setting <ul style="list-style-type: none"> • Available / Not Available for Operation by Remote control Switch • Filter Sign Reset
Monitoring Item at Upper System	<ul style="list-style-type: none"> • RUN/STOP State Notification • Alarm Signal Notification • Operation Mode State Notification • Fan Speed State Notification <ul style="list-style-type: none"> • Indoor Suction Temperature Notification • Alarm Code Notification • Communication Abnormality Notification • Filter Sign

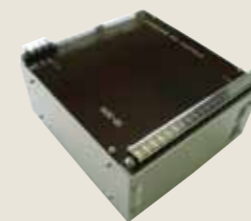
HARC70-P1 (for LONWORKS®)



By using the HARC70-P1 adapter for LONWORKS® to connect air conditioners to the total building control system, air conditioners can be centrally controlled.

Connection Method to Upper System	• Connection by SNVT (Standard Network Variable Type) to LONWORKS® Network
Quantity of Connection	• 8 Remote Control Groups (Max. 120 indoor Units)
Control Item at Upper System	<ul style="list-style-type: none"> • On/Off Order • Operation Mode Setting <ul style="list-style-type: none"> • Temperature Setting • All On/Off Order
Monitoring Item at Upper System	<ul style="list-style-type: none"> • On/Off State & Alarm • Operation Mode State <ul style="list-style-type: none"> • Temperature Setting • Individual Thermostat State

HARC-BX (for LONWORKS®)



A HARC-BX can connect to multiple H-LINK with H-LINK transmission terminal to 8 PCB.

Points for control and monitor have been increased to meet more points. (Points for control and monitor is 8 times larger than HARC70P-1.)

You can select the number of controls, monitor, and what to control in the indoor unit from three choices (Standard, Option A and Option B) as needed.

■ HARC-BX E (Standard)

Connection Method to Upper System	• Connection by SNVT (Standard Network Variable Type) to LONWORKS® Network
Quantity of Connection	• 64 Indoor Units
Control Item at Upper System	<ul style="list-style-type: none"> • On/Off Order • Operation Mode Setting <ul style="list-style-type: none"> • Temperature Setting • All On/Off Order
Monitoring Item at Upper System	<ul style="list-style-type: none"> • On/Off State & Alarm • Operation Mode State <ul style="list-style-type: none"> • Temperature Setting • Individual Thermostat State

■ HARC-BX E (Option A)

Connection Method to Upper System	• Connection by SNVT (Standard Network Variable Type) to LONWORKS® Network
Quantity of Connection	• 64 Indoor Units
Control Item at Upper System	<ul style="list-style-type: none"> • On/Off Order • Operation Mode Setting • Temperature Setting • All On/Off Order • Fan Speed Setting • R.C.Sw Permission/Prohibition
Monitoring Item at Upper System	<ul style="list-style-type: none"> • On/Off State & Alarm • Inlet Air Temperature

■ HARC-BX E (Option B)

Connection Method to Upper System	• Connection by SNVT (Standard Network Variable Type) to LONWORKS® Network
Quantity of Connection	• 32 Indoor Units
Control Item at Upper System	<ul style="list-style-type: none"> • On/Off Order • Operation Mode Setting • Temperature Setting <ul style="list-style-type: none"> • Fan Speed Setting • R.C.Sw Permission /Prohibition <ul style="list-style-type: none"> • All On/Off Order • Louver Position Setting
Monitoring Item at Upper System	<ul style="list-style-type: none"> • On/Off State & Alarm • Operation Mode State • Fan Speed Setting <ul style="list-style-type: none"> • Temperature Setting • Louver Position • Alarm Code <ul style="list-style-type: none"> • Inlet Air Temperature • Outlet Air Temperature • Outdoor Air Temperature