HITACHI
Inspire the Next

SET-FREE

Cooling Only Front Flow Series

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Hitachi Appliances, Inc.

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Zero Ozone Depletion Potential
R410A

Hitachi, Inspire the Next

Taking into account more and more requirements of small building space,SET-FREE Cooling Only Front Flow Series integrates the compactness and lightness of a multi-split air conditioning system(with multiple indoor units) and user-friendliness of SET-FREE series,which provide more convenient and good-looking air-conditioning solutions for customers.

Contents

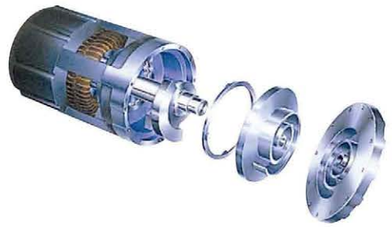
SET-FREE Cooling Only Front Flow series is highly-efficient and reliable air conditioning system realized by Hitachi's unique technology.

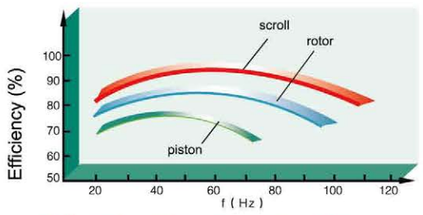
Key Technology

Hitachi High Efficiency Scroll Compressor

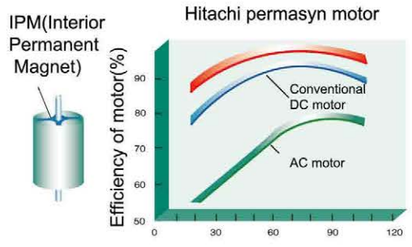
In 1983, Hitachi invented the first air conditioning scroll compressor in the world and owned the patent. More than 30 years' professional experience in development and manufacturing of scroll compressor ensures more advanced technology, higher quality and stronger reliability.

In 2003, Hitachi promoted the first high-pressure shell scroll compressor in the industry which has the function of interior oil separating. At the same time, aiming at the high pressure characteristics of R410A refrigerant, asymmetric scroll disc was developed and bearing structure was strengthened which improved efficiency and reliability of the compressor.





Different type compressor comparison curve



Motor efficiency comparison curve

Hitachi Unique Asymmetric Scroll Disc Technology

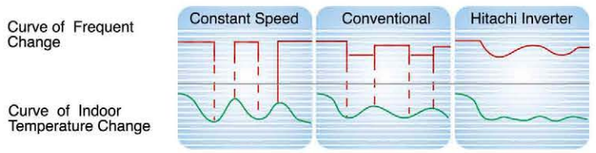
Compared with conventional technique, it has the following features:

- Less leakage and high efficiency
- Light vibration and quiet operation
- Overcompression prevention and long life

The Hitachi Patented Precise Inverter Technique

The operating speed of DC motor in compressor can be adjusted continuously and freely relating to the variability of system capacity and accurately with 1Hz increments. This technique combining with auto-adaptive control technique automatically adjusts capacity output according to actual air conditioning load in order to achieve a smoother curve of temperature change to satisfy higher requirements of coziness.

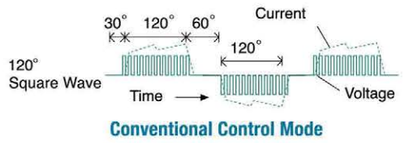
The operating frequency of motor in compressor of outdoor unit can be adjusted continuously and freely according to the variability of system capacity



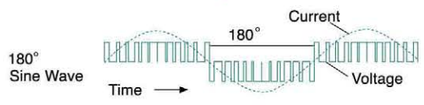
The Latest 180° Sine Wave DC Inverter Driven Technique

The application of advanced sensorless three phase vectoring control technique on permanent magnetism synchronous motor ensures the output current of DIP-IPM DC inveter to be a smooth sine wave curve, and accordingly enables motor to operate smoothly with efficiency dramatically increased. At the same time, both harmonic current and electromagnetic noise are suppressed.

DIP-IPM inverter makes a significant improvement on heat emission. It achieves smaller thermal drift which reduces the impact on control precision and increases stability and lifespan of the air-conditioning system.



Conventional Control Mode

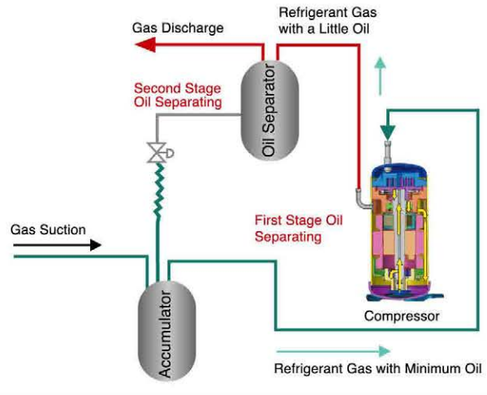


180° Sine Wave DC Inverter Driven Technique

DIP-IPM DC Inverter

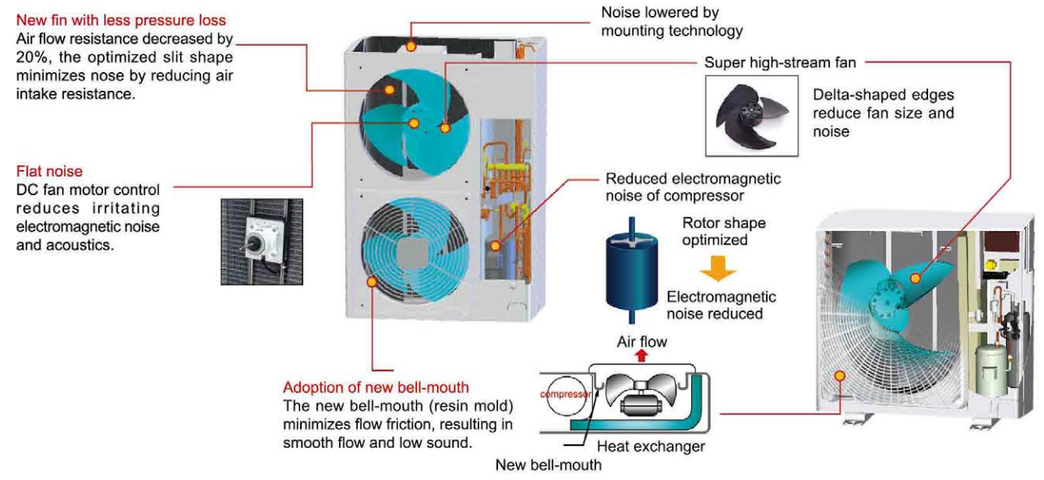
The 2-stages Oil Separating Technique

System adopts Hitachi proprietary compressor which has high efficient function on oil separating to conduct the first stage oil separating. Meanwhile, oil separator is adopted as the second stage oil separating. Therefore the system can operate safely and reliably.



Hitachi Unique Noise Reduction Technology

Top-Class Quiet Operation(Outdoor Unit)

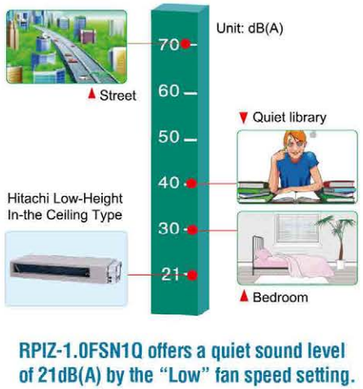


The Quietest In the Industry

Low Noise Mode at Night

The outdoor unit has a peculiar function of night-shift setting, which reduces the noise level by 5dB at night when operating at full capacity compared with the normal operation in daytime.

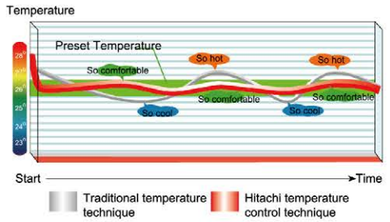
Night-time Operation



RPIZ-1.0FSN1Q offers a quiet sound level of 21dB(A) by the "Low" fan speed setting.

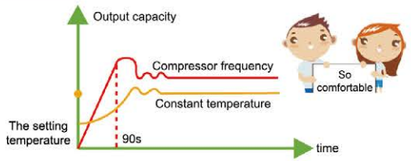
Precise Room Temperature Control

SET-FREE Cooling Only Front Flow system adopts thermistors for indoor intake air temperature, indoor discharge air temperature and remote control switch. In this way, the system can maintain the room temperature within 0.5℃ of setting temperature especially for sensitive groups such as elder, children etc.



Quick Starting to Achieve the Setting Temperature

At startup, the compressor starts fast at a high speed according to the setting temperature and outdoor ambient temperature, which is used to achieve the room setting temperature quickly.



Intelligent Operation, Unattended Maintenance

SET-FREE is highly intelligentized and has no requirement for special equipping room, therefore can achieve unattended operation and much more flexible and convenient control.

Conventional air conditioning system requires special staff caring for maintenance

SET-FREE R410A air conditioning system operates intelligently

Self-diagnosis Function Enables High-efficient Maintenance and Repairing.

Through remote control switch or 7-segment displays on outdoor units, self-diagnosing error code and information can be easily got to monitor the system operating status which makes both operation management and maintenance more convenient.

Alarm Code

Code No.	Category	Content of Abnormality	Leading Cause
01	Indoor Unit	Tripping of protection device	Failure of fan motor, drain discharge PCB ,relay
02	Outdoor Unit	Tripping of protection device	Activation of PSH
03	Transmission	Abnormality between indoor and outdoor(or indoor)	Incorrect wiring, failure of PCB, tripping of fuse
04	Inverter	Inverter trip of outdoor unit	Failure in transmission of PCB for inverter
05	Transmission	Abnormality of power source wiring	Reverse phase incorrect wiring
06	Voltage Drop	Voltage drop in outdoor unit excessively low or high voltage to outdoor unit	Voltage drop , incorrect wiring, tripping of fuse
...	...	...	...

Remote Control Switch

7-Segment Display

Wide-range Control System

Various Controllers

Wireless remote control switch,remote control switch,central station and 7-day timer etc.

PC-AR PC-ARQ
Remote Control Switch

PC-ARF
Remote Control Switch

PC-LH3A
Wireless Remote Control Switch

PSC-5S
PSC-A64S
Central Station

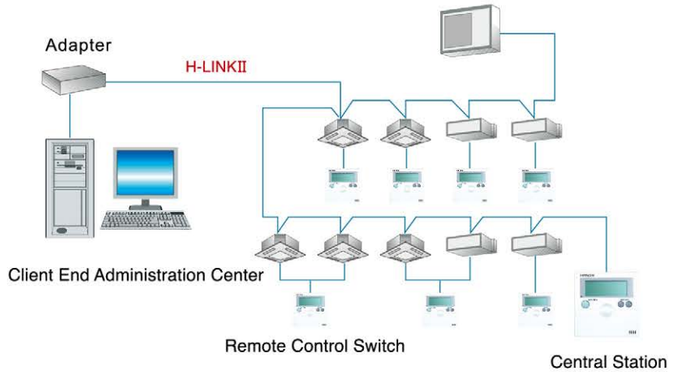
PSC-A1T
7-Day Timer

PC-ARH
Half-size Remote Control Switch

DX Computer Controlled Network System

Central Station DX is a powerful computer controlled netowrk system with easy operation which can monitor and control utmost 2560 indoor units.

Each adapter of DX system can interface up to 160 indoor units.



Central Station EZ

- Up to 160 indoor units
- Easy control with big color touch panel
- Fine control in each and every room with easy schedule setting
- Visually displays the operating hours

PSC-A64GT

Long Piping Design

1 Actual piping length

RAS-4/5HRNAM1Q	50 m
RAS-6HRNAM1Q	75 m
RAS-FSNAMQ	100 m

2 Maximum height difference between outdoor and indoor units

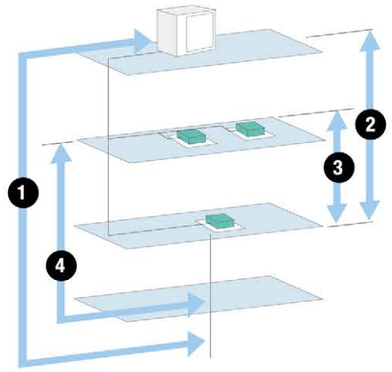
RAS-4/5HRNAM1Q	Outdoor unit is higher than indoor units:	30 m
	Outdoor unit is lower than indoor units:	20 m
RAS-6HRNAM1Q	Outdoor unit is higher than indoor units:	30 m
	Outdoor unit is lower than indoor units:	30 m
RAS-FSNAMQ	Outdoor unit is higher than indoor units:	50 m
	Outdoor unit is lower than indoor units:	40 m

3 Height difference between highest and lowest indoor units

RAS-4/5HRNAM1Q	3.5 m
RAS-6HRNAM1Q	15 m
RAS-FSNAMQ	15 m

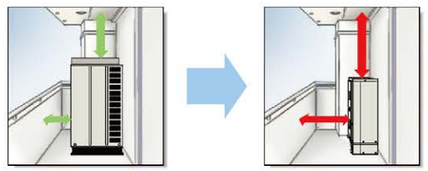
4 Maximum distance between first branch and indoor units

RAS-4/5HRNAM1Q	20 m
RAS-6HRNAM1Q	30 m
RAS-FSNAMQ	40 m



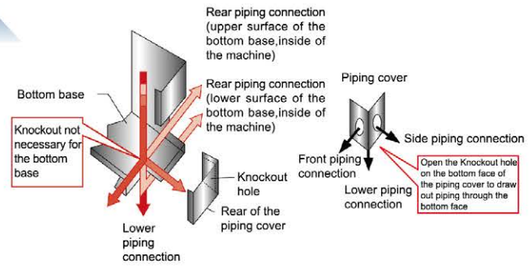
Compact Size and Space-saving

Facilitation and flexibility on installation are further advanced by adopting outdoor unit's light weight and compact design. This system can be installed on a staircase landing or balcony on each door.

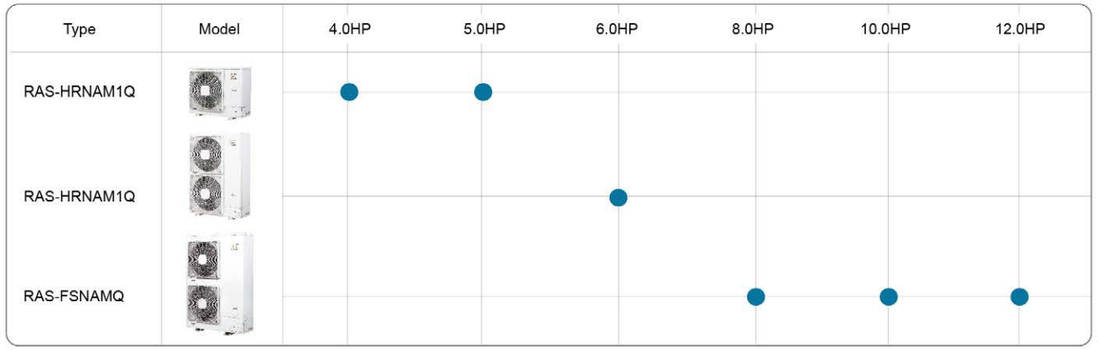


Various Piping Connection

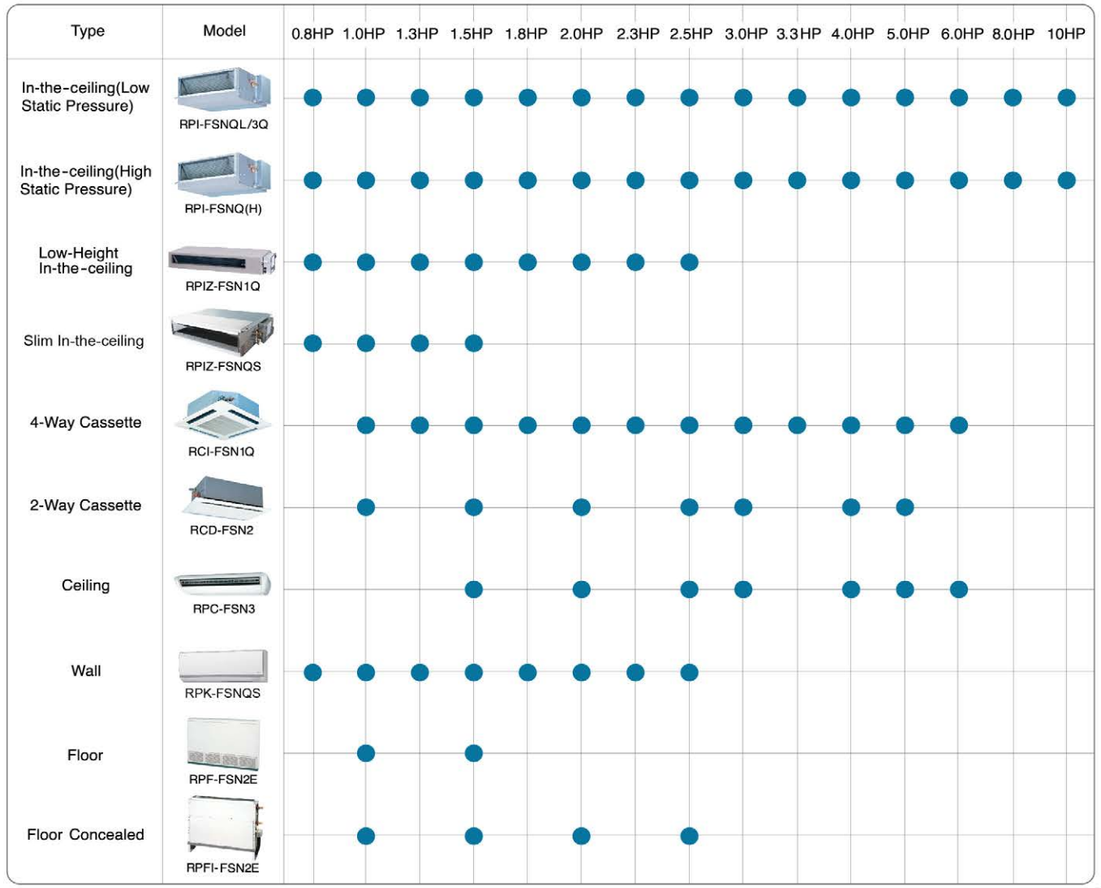
Four types of piping connection are available (front, side, bottom and back surface). Back surface connection in particular is now much easier.



Outdoor units



Indoor units



Outdoor Units General Data

Model			RAS-4HRNAM1Q	RAS-5HRNAM1Q	RAS-6HRNAM1Q	RAS-8FSNAMQ	RAS-10FSNAMQ	RAS-12FSNAMQ
Power Supply			AC1Φ, 220V~240V/50Hz, 220V/60Hz			AC3Φ, 380V~415V/50Hz, 380V/60Hz		
Nominal Cooling Capacity		kW	10.4	12.9	16.0	22.4	28.0	33.5
		Btu/h	35,500	44,000	54,600	76,500	95,600	114,300
		kcal/h	8,950	11,090	13,760	19,300	24,100	28,000
Outer Dimensions	H	mm	800	800	1380	1,650	1,650	1,650
	W	mm	950	950	950	1,100	1,100	1,100
	D	mm	370	370	370	390	390	390
Net Weight		kg	84	84	97	168	168	171
Sound Pressure Level (Cooling)		dB(A)	50	52	50	53	56	59
Air Flow Rate		m³/min	75	75	100	121	150	163
Max. Number of Connectable Indoor Units			5	5	9	10	10	10
Refrigerant			R410A					
Operation Range	Cooling		-5~43℃ DB					
Refrigerant Flow Control			Micro-Computer Control Expansion Valve					
Refrigerant Piping			Flare-Nut Connection					
Liquid Line		mm	Φ9.53			Φ9.53	Φ12.7	Φ12.7
Gas Line		mm	Φ15.88			Φ19.05	Φ22.2	Φ25.4
Piping Connection			Multi-Kit Connection					

NOTES:

1.The nominal cooling capacity is based on following 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

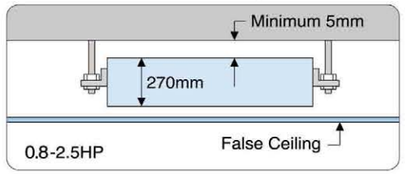
2.The sound pressure level is based on following conditions: 1.5 Meters from floor Level, and 1 Meter from the unit service cover surface.
The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

In-the-ceiling Type (Low Static Pressure)

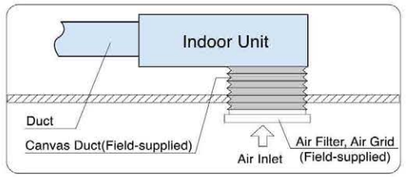
SET FREE-RPI Technique Features

Installation Space-saving

Less than 270mm in height can be easily fit into the limited space in the false ceiling (0.8HP to 2.5HP).



Flexibly supports a wide range of installation conditions at site



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

Fresh Indoor Air

By introducing fresh outdoor air and being equipped with air filter to keep indoor air clean.

Excellent Air Flow

Cooling air is distributed from the unit to indoor space through ducts, which creates a comfortable environment.

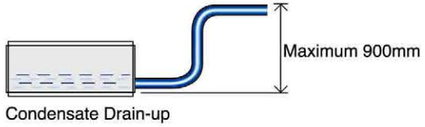
Quiet Operation

Far less noise , much quieter operation.

Model	High Fan Speed	Low Fan Speed
RPI-0.8FSNQL	29.5dB	24.5dB
RPI-1.0FSNQL	29.5dB	24.5dB
RPI-1.3FSNQL	34dB	30dB
RPI-1.5FSNQL	34dB	30dB
RPI-1.8FSNQL	34dB	30dB
RPI-2.0FSNQL	34dB	30dB
RPI-2.3FSNQL	35dB	31dB
RPI-2.5FSNQL	35dB	31dB
RPI-3.0FSNQL	40dB	33dB
RPI-3.3FSNQL	40dB	33dB
RPI-4.0FSNQL	41.5dB	35dB
RPI-5.0FSNQL	42dB	35dB
RPI-6.0FSNQL	43dB	37dB
RPI- 8FSN3Q	50dB	
RPI-10FSN3Q	52dB	

Optional Parts

Drain-up mechanism can be supplied as optional part.



Condensate Drain-up

Indoor Unit		In-the-ceiling Type(Low Static Pressure)														
Model		RPI-0.8 FSNQL	RPI-1.0 FSNQL	RPI-1.3 FSNQL	RPI-1.5 FSNQL	RPI-1.8 FSNQL	RPI-2.0 FSNQL	RPI-2.3 FSNQL	RPI-2.5 FSNQL	RPI-3.0 FSNQL	RPI-3.3 FSNQL	RPI-4.0 FSNQL	RPI-5.0 FSNQL	RPI-6.0 FSNQL	RPI-8 FSN3Q	RPI-10 FSN3Q
Power Supply		AC1Φ,220V~240V/50Hz,220V/60Hz													AC3Φ,380V~415V/50Hz, 380V/60Hz	
Nominal Cooling Capacity	kW	2.2	2.8	3.6	4.3	5.0	5.6	6.3	7.1	8.4	9.0	11.2	14.2	16.0	22.4	28.0
	kcal/h	1,900	2,400	3,100	3,700	4,300	4,800	5,400	6,100	7,200	7,700	9,600	12,200	13,800	19,300	24,100
	Btu/h	7,500	9,600	12,300	14,700	17,100	19,100	21,500	24,200	28,700	30,700	38,200	48,500	54,600	76,500	95,600
Sound Pressure Level (High/Medium/Low)	dB(A)	29.5-26-24.5	29.5-26-24.5	34-32-30	34-32-30	34-32-30	34-32-30	35-33-31	35-33-31	40-37-33	40-37-33	41.5-39-35	42-39-35	43-39-37	50	52
Outer Dimensions	H mm	270	270	270	270	270	270	270	270	350	350	350	350	350	470	470
	W mm	650+75	650+75	650+75	650+75	900+75	900+75	900+75	900+75	900+75	900+75	900+75	1300+75	1300+75	1060	1250
	D mm	720	720	720	720	720	720	720	720	800	800	800	800	800	1120	1120
Net Weight	kg	26	26	26	26	35	35	35	35	46	46	46	58	58	94	106
	(lbs)	(57)	(57)	(57)	(57)	(77)	(77)	(77)	(77)	(101)	(101)	(101)	(128)	(128)	(211)	(238)
Refrigerant		R410A(Nitrogen-charged for Corrosion-resistance)														
Indoor Fan Air Flow Rate (High/Medium/Low)	m^3/min	8/7/6	8/7/6	13/11/9	13/11/9	15/13/11	15/13/11	16/14/12	16/14/12	25/21/17	25/21/17	27/23/19	37/31/25	38/35/29	58	72
Motor Power	W	20	20	40	40	45	45	45	45	100	100	100	160	180	900	1070
Connections Refrigerant Piping		Flare-nut Connection(with Flare Nuts)													Brazing	
Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53
	(in.)	(1/4)	(1/4)	(1/4)	(1/4)	(1/4)	(1/4)	(3/8)	(3/8)	(3/8)	(3/8)	(3/8)	(3/8)	(3/8)	(3/8)	(3/8)
Gas Line	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ19.05	Φ22.2
	(in.)	(1/2)	(1/2)	(1/2)	(1/2)	(5/8)	(5/8)	(5/8)	(5/8)	(5/8)	(5/8)	(5/8)	(5/8)	(5/8)	(3/4)	(7/8)
Condensate Drain		VP25(Outer Diameter Φ32)														
External Static Pressure	Pa	30	30	30	30	30	30	30	30	60	60	60	60	60	100	100
Approximate Packing Measurement	m^3	0.21	0.21	0.21	0.21	0.27	0.27	0.27	0.27	0.38	0.38	0.38	0.52	0.52	0.90	1.06

NOTES:

1.The nominal cooling capacity is based on following 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

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

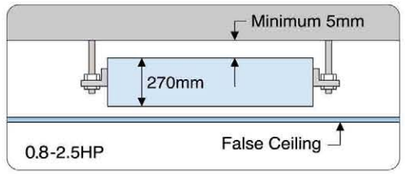
3.The data for external pressure indicates standard pressure setting values when air filter is not used.

In-the-ceiling Type (High Static Pressure)

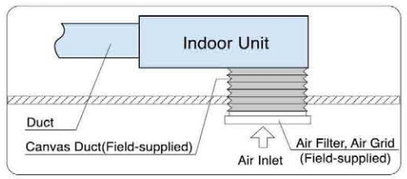
SET FREE-RPI Technique Features

Installation Space-saving

Less than 270mm in height can be easily fit into the limited space in the false ceiling (0.8HP to 2.5HP).



Flexibly supports a wide range of installation conditions at site



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

Higher External Static Pressure

Better installation flexibility at site, longer ducts can be connected.

Quiet Operation

Far less noise , much quieter operation.

Model	High Fan Speed	Low Fan Speed
RPI-0.8FSNQH	35dB	31dB
RPI-1.0FSNQH	35dB	31dB
RPI-1.3FSNQH	35dB	31dB
RPI-1.5FSNQH	35dB	31dB
RPI-1.8FSNQH	35dB	31dB
RPI-2.0FSNQH	35dB	31dB
RPI-2.3FSNQH	36dB	32dB
RPI-2.5FSNQH	36dB	32dB
RPI-3.0FSNQH	42dB	35dB
RPI-3.3FSNQH	42dB	35dB
RPI-4.0FSNQH	43dB	36dB
RPI-5.0FSNQH	44dB	37dB
RPI-6.0FSNQH	45dB	37dB
RPI-8FSNQ	50dB	
RPI-10FSNQ	52dB	

Optional Parts

Drain-up mechanism can be supplied as optional part.

Condensate Drain-up

Higher Fireproof Grade

The models equipped with metallic fan and fan casing are also provided to meet UK standard towards higher fireproof grade.
(The models between brackets [ ] are UK standard type)

Indoor Unit		In-the-ceiling Type(High Static Pressure)														
Model		RPI-0.8 FSNQH	RPI-1.0 FSNQH [RPI-1.0 FSN4QH]	RPI-1.3 FSNQH	RPI-1.5 FSNQH [RPI-1.5 FSN4QH]	RPI-1.8 FSNQH	RPI-2.0 FSNQH [RPI-2.0 FSN4QH]	RPI-2.3 FSNQH	RPI-2.5 FSNQH [RPI-2.5 FSN4QH]	RPI-3.0 FSNQH	RPI-3.3 FSNQH	RPI-4.0 FSNQH	RPI-5.0 FSNQH	RPI-6.0 FSNQH	RPI-8 FSNQ	RPI-10 FSNQ
Power Supply		AC1Φ,220V~240V/50Hz,220V/60Hz ,[220V/50Hz]													AC3Φ,380V~415V/50Hz, 380V/60Hz	
Nominal Cooling Capacity	kW	2.2	2.8	3.6	4.3	5.0	5.6	6.3	7.1	8.4	9.0	11.2	14.2	16.0	22.4	28.0
	kcal/h	1,900	2,400	3,100	3,700	4,300	4,800	5,400	6,100	7,200	7,700	9,600	12,200	13,800	19,300	24,100
	Btu/h	7,500	9,600	12,300	14,700	17,100	19,100	21,500	24,200	28,700	30,700	38,200	48,500	54,600	76,500	95,600
Sound Pressure Level (High/Medium/Low)	dB(A)	35-33-31	35-33-31 [36-33-29]	35-33-31	35-33-31 [38-36-32]	35-33-31	35-33-31 [38-36-32]	36-34-32	36-34-32 [38-36-32]	42-39-35	42-39-35	43-40-36	44-41-37	45-41-37	50	52
Outer Dimensions	H mm	270	270	270	270	270	270	270	270	350	350	350	350	350	470	470
	W mm	650+75	650+75	650+75	650+75	900+75	900+75	900+75	900+75	900+75	900+75	900+75	1300+75	1300+75	1060	1250
	D mm	720	720	720	720	720	720	720	720	800	800	800	800	800	1120	1120
Net Weight	kg	26	26	26	26	35	35	35	35	46	46	46	58	58	85	95
	(lbs)	(57)	(57)	(57)	(57)	(77)	(77)	(77)	(77)	(101)	(101)	(101)	(128)	(128)	(211)	(238)
Refrigerant		R410A(Nitrogen-charged for Corrosion-resistance)														
Indoor Fan Air Flow Rate (High/Medium/Low)	m^3/min	8/7/6	8/7/6 [8.3/7.1/6.1]	13/11/9	13/11/9 [11/9.7/8.3]	15/13/11	15/13/11 [14.5/13/11]	16/14/12	16/14/12 [14.5/13/11]	25/21/17	25/21/17	27/23/19	37/31/25	38/35/29	58	72
Motor Power	W	35	35	60	60	75	75	75	75	120	120	120	200	280	650	900
Connections Refrigerant Piping		Flare-nut Connection(with Flare Nuts)													Brazing	
Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53
	(in.)	(1/4)	(1/4)	(1/4)	(1/4)	(1/4)	(1/4)	(3/8)	(3/8)	(3/8)	(3/8)	(3/8)	(3/8)	(3/8)	(3/8)	(3/8)
Gas Line	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ19.05	Φ22.2
	(in.)	(1/2)	(1/2)	(1/2)	(1/2)	(5/8)	(5/8)	(5/8)	(5/8)	(5/8)	(5/8)	(5/8)	(5/8)	(5/8)	(3/4)	(7/8)
Condensate Drain		VP25(Outer Diameter Φ32)														
External Static Pressure	Pa	50(80)	50(80)	50(80)	50(80)	50(80)	50(80)	50(80)	50(80)	120(90)	120(90)	120(90)	120(90)	120(90)	180	180
Approximate Packing Measurement	m^3	0.21	0.21	0.21	0.21	0.27	0.27	0.27	0.27	0.38	0.38	0.38	0.52	0.52	0.90	1.06

NOTES:

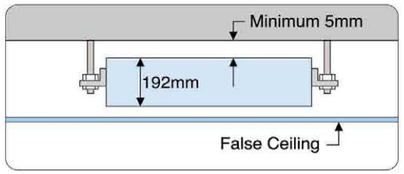
1. The nominal cooling capacity is based on following conditions:
   Indoor Air Inlet Temperature: 27°C DB(80°F DB)
   19.0°C WB (66.2°F WB)
   Outdoor Air Inlet Temperature: 35°C DB(95°F DB)
   Piping Length: 7.5 Meters Piping Lift: 0 Meter
2. The sound pressure level is based on following conditions.1.5m beneath the unit.
   The above data was measured in an anechoic chamber so that reflected sound should be taken 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.
3. The data for external pressure indicates standard pressure setting values when air filter is not used.
4. The figures between brackets [ ] are unique data for the models with metallic fan and fan casing.
   All models with capacity from 3.0 to 10HP are equipped with metallic fan and fan casing.

Low-height In-the-ceiling Type

SET FREE-RPIZ Technical Features

Installation Space-saving

With a height of 192mm may be easily installed inside the low height residential ceiling.

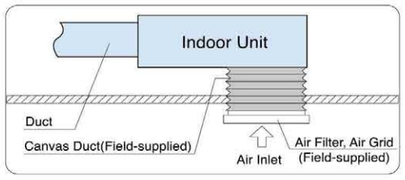


Broad Range of External Static Pressure

10Pa(or30Pa), flexibly supports a wide range of installation conditions at site, e.g. longer ducts and shorter ducts supplied.

Satisfy Varied Requests on Installation

Available air inlet as rear or bottom entry, consumers can choose relevant air inlet mode according to the practical installation space.



(Installation Diagram of Air Bottom Inlet)

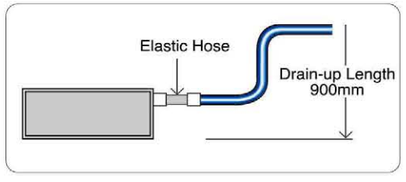
Quiet Operation

Air flow rate can be adjusted by 3 grades, lower noise in lower grade.

Model	High Sound Pressure(dB)	Low Sound Pressure(dB)
RPIZ-0.8FSN1Q	27	21
RPIZ-1.0FSN1Q	27	21
RPIZ-1.3FSN1Q	31	26
RPIZ-1.5FSN1Q	31	26
RPIZ-1.8FSN1Q	34	28
RPIZ-2.0FSN1Q	34	28
RPIZ-2.3FSN1Q	35	30
RPIZ-2.5FSN1Q	35	30

Drain-up Mechanism as Standard Part

Drain-up length achieves 900mm which enables convenient drain piping and enlarges the flexibility of installation.



Higher Fireproof Grade

The models equipped with metallic fan and fan casing are also provided to meet UK standard towards higher fireproof grade.
(The models between brackets [ ] are UK standard type)

Indoor Unit		Low-height In-the-ceiling Type							
Model		RPIZ-0.8FSN1Q	RPIZ-1.0FSN1Q [RPIZ-1.0FSN4Q/P]	RPIZ-1.3FSN1Q	RPIZ-1.5FSN1Q [RPIZ-1.5FSN4Q/P]	RPIZ-1.8FSN1Q	RPIZ-2.0FSN1Q [RPIZ-2.0FSN4Q/P]	RPIZ-2.3FSN1Q	RPIZ-2.5FSN1Q [RPIZ-2.5FSN4Q/P]
Power Supply		AC1Φ,220V~240V/50Hz,220V/60Hz,[220V/50Hz]							
Nominal Cooling Capacity	kW	2.2	2.8	3.6	4.3	5.0	5.6	6.3	7.1
	kcal/h	1,900	2,400	3,100	3,700	4,300	4,800	5,400	6,100
	Btu/h	7,500	9,600	12,300	14,700	17,100	19,100	21,500	24,200
Sound Pressure Level (High/Medium/Low)	dB(A)	27-24-21	27-24-21 [29-25-22]	31-29-26	31-29-26 [34-31-28]	34-30-28	34-30-28 [36-32-26]	35-33-30	35-33-30 [39-37-33]
Outer Dimensions H	mm	192	192	192	192	192	192	192	192
Outer Dimensions W	mm	900	900	900	900	1,170	1,170	1,170	1,170
Outer Dimensions D	mm	447	447	447	447	447	447	447	447
Net Weight	kg	21	21	22	22	27	27	27	27
	(lbs)	(46)	(46)	(48)	(48)	(59)	(59)	(59)	(59)
Refrigerant		R410A(Nitrogen-charged for Corrosion-resistance)							
Indoor Fan Air Flow Rate (High/Medium/Low)	m^3/min	8/7/6	8/7/6 [7.5/6.5/5.5]	10/8/7	10/8/7 [9.8/8.5/7.5]	14.5/12.5/10.5	14.5/12.5/10.5 [13.5/11.5/9.5]	16/14/12	16/14/12 [14.8/13.0/11.5]
Motor Power	W	16	16 [25]	25	25 [30]	40	40 [45]	50	50 [55]
Connections Refrigerant Piping		Flare-nut Connection(with Flare Nuts)							
Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53	Φ9.53
	(in.)	(1/4)	(1/4)	(1/4)	(1/4)	(1/4)	(1/4)	(3/8)	(3/8)
Gas Line	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88
	(in.)	(1/2)	(1/2)	(1/2)	(1/2)	(5/8)	(5/8)	(5/8)	(5/8)
Condensate Drain		VP25(Outer Diameter Φ32)							
External Static Pressure	Pa	10(30)	10(30) [20(50)]	10(30)	10(30) [20(50)]	10(30)	10(30) [20(50)]	10(30)	10(30) [20(50)]
Approximate Packing Measurement	m^3	0.15	0.15	0.15	0.15	0.18	0.18	0.18	0.18

NOTES:

1.The nominal cooling capacity is based on following 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

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

3.The data for external pressure indicates standard pressure setting values when air filter is not used.

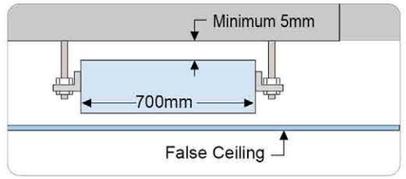
4.The figures between brackets [ ] are unique data for the models with metallic fan and fan casing.

Slim In-the-ceiling Type

SET FREE-RPIZ Technical Features

Installation Space-saving

With a width of 700mm may be easily installed inside narrow residential ceiling.

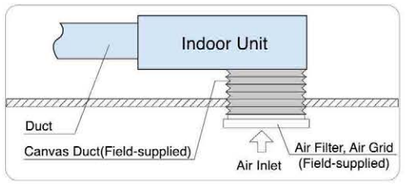


Broad Range of External Static Pressure

10Pa(or30pa), flexibly supports a wide range of installation conditions at site, e.g. longer ducts and shorter ducts supplied.

Satisfy Varied Requests on Installation

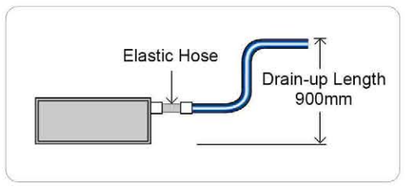
Available air inlet as rear or bottom entry, consumers can choose relevant air inlet mode according bo the practical installation space.



(Installation Diagram of Air Bottom Inlet)

Drain-up Mechanism as Standard Part

Drain-up length achieves 900mm which enables convenient drain piping and enlarges the flexibility of installation.



Indoor Unit			Slim In-the-ceiling Type			
Model			RPIZ-0.8FSNQS	RPIZ-1.0FSNQS	RPIZ-1.3FSNQS	RPIZ-1.5FSNQS
Power Supply			AC1Φ,220V~240V/50Hz			
Nominal Cooling Capacity		kW	2.2	2.8	3.6	4.3
		kcal/h	1,900	2,400	3,100	3,700
		Btu/h	7,500	9,600	12,300	14,700
Sound Pressure Level (High/Medium/Low)		dB(A)	28-25-22	28-25-22	32-30-28	32-30-28
Outer Dimensions	H	mm	192	192	192	192
	W	mm	700	700	700	700
	D	mm	602	602	602	602
Net Weight		kg	21	21	21	21
		(lbs)	(46)	(46)	(48)	(48)
Refrigerant			R410A(Nitrogen-charged for Corrosion-resistance)			
Indoor Fan Air Flow Rate (High/Medium/Low)		m^3/min	8/7/6	8/7/6	10/8/7	10/8/7
Motor Power		W	50	50	60	60
Connections Refrigerant Piping			Flare-nut Connection(with Flare Nuts)			
Liquid Line		mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35
		(in.)	(1/4)	(1/4)	(1/4)	(1/4)
Gas Line		mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7
		(in.)	(1/2)	(1/2)	(1/2)	(1/2)
Condensate Drain			VP25			
External Static Pressure		Pa	10(30)	10(30)	10(30)	10(30)
Approximate Packing Measurement		m^3	0.15	0.15	0.15	0.15

NOTES:

1.The nominal cooling capacity is based on following 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

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

3.The data for external pressure indicates standard pressure setting values when air filter is not used.

4.The figures between brackets [ ] are unique data for the models with steel fan and fan casing.

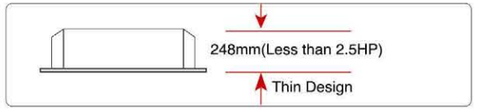
4-Way Cassette Type

SET FREE-RCI Technique Features

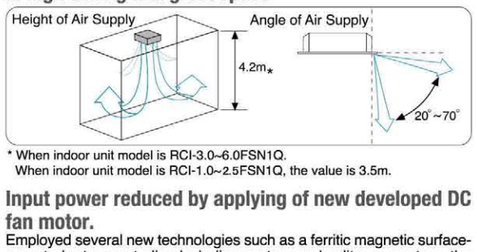
Extremely Quiet Operation
By employing a super-high-stream turbo fan (Three-dimensional twisted wing large bore and high efficiency), the wind flow efficiency has been improved. with the under damping slit mounted near the center of the revolving shaft, the abnormal noise which is unique to DC motors caused by the number of magnetic poles and revolution speed of the motor, is reduced.

Unified Panel Sizes
Panel sizes are unified to a 950mm square, neat and elegance, and well harmonized with decoration.

Compact and Thin
The height of the unit is just 248mm(Less than 2.5HP), so it can be installed in a small space inside a ceiling.



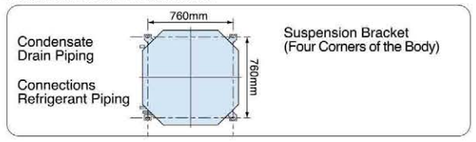
With broad range of air supply, is suitable to be used in high ceiling and great space



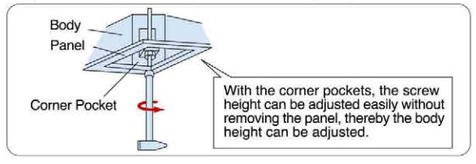
* When indoor unit model is RCI-3.0~6.0FSN1Q.
When indoor unit model is RCI-1.0~2.5FSN1Q, the value is 3.5m.

Input power reduced by applying of new developed DC fan motor.
Employed several new technologies such as a ferritic magnetic surface-mounted rotor, centralized winding system and split core system, the motor efficiency is improved in all aspects, smaller and lighter.

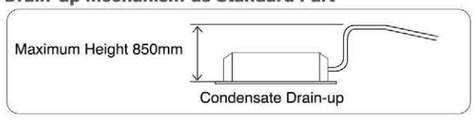
Flexible Refrigerant Piping
Suspending brackets are at the square corners of the body with pitch size of 760mm. The direction of the body can be changed easily according to the pipe-out opening without change the bolt position which makes installation much easier.



Body height easily adjustable in the corner pockets
A pocket is provided for each of the four panel corners, so that the body height can be adjusted easily without removing the panel.



Drain-up Mechanism as Standard Part



Indoor Unit		4-Way Cassette Type											
Model		RCI-1.0 FSN1Q	RCI-1.3 FSN1Q	RCI-1.5 FSN1Q	RCI-1.8 FSN1Q	RCI-2.0 FSN1Q	RCI-2.3 FSN1Q	RCI-2.5 FSN1Q	RCI-3.0 FSN1Q	RCI-3.3 FSN1Q	RCI-4.0 FSN1Q	RCI-5.0 FSN1Q	RCI-6.0 FSN1Q
Power Supply		AC1Φ,220V~240V/50Hz,220V/60Hz											
Nominal Cooling Capacity	kW	2.8	3.6	4.3	5.0	5.6	6.3	7.1	8.4	9.0	11.2	14.2	16.0
	kcal/h	2,400	3,100	3,700	4,300	4,800	5,400	6,100	7,200	7,700	9,600	12,200	13,800
	Btu/h	9,600	12,300	14,700	17,100	19,100	21,500	24,200	28,700	30,700	38,200	48,500	54,600
Sound Pressure Level (High/Medium/Low)	dB(A)	32-30-28	32-30-28	32-30-28	32-30-28	32-30-28	32-30-28	32-30-28	34-32-30	34-32-30	41-36-33	43-38-35	44-40-36
Outer Dimensions(H)	mm	248	248	248	248	248	248	248	298	298	298	298	298
	(in.)	(9-3/4)	(9-3/4)	(9-3/4)	(9-3/4)	(9-3/4)	(9-3/4)	(9-3/4)	(11-3/4)	(11-3/4)	(11-3/4)	(11-3/4)	(11-3/4)
Outer Dimensions(W)	mm	840	840	840	840	840	840	840	840	840	840	840	840
	(in.)	(33-1/16)	(33-1/16)	(33-1/16)	(33-1/16)	(33-1/16)	(33-1/16)	(33-1/16)	(33-1/16)	(33-1/16)	(33-1/16)	(33-1/16)	(33-1/16)
Outer Dimensions(D)	mm	840	840	840	840	840	840	840	840	840	840	840	840
	(in.)	(33-1/16)	(33-1/16)	(33-1/16)	(33-1/16)	(33-1/16)	(33-1/16)	(33-1/16)	(33-1/16)	(33-1/16)	(33-1/16)	(33-1/16)	(33-1/16)
Net Weight	kg	23	23	23	24	24	24	24	26	26	29	29	29
	(lbs)	(51)	(51)	(51)	(53)	(53)	(53)	(53)	(57)	(57)	(64)	(64)	(64)
Refrigerant		R410A(Nitrogen-charged for Corrosion-resistance)											
Indoor Fan Air Flow Rate (High/Medium/Low)	m^3/min	13/12/11	15/13.5/12	15/13.5/12	16/14/12	16/14/12	19/17/14	20/17/15	26/23/20	26/23/20	32/28/24	34/29/25	37/32/27
Motor Power	W	56	56	56	56	56	56	56	56	56	108	108	108
Connections Refrigerant Piping		Flare-nut Connection(with Flare Nuts)											
Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53
	(in.)	(1/4)	(1/4)	(1/4)	(1/4)	(1/4)	(3/8)	(3/8)	(3/8)	(3/8)	(3/8)	(3/8)	(3/8)
Gas Line	mm	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88
	(in.)	(1/2)	(1/2)	(1/2)	(5/8)	(5/8)	(5/8)	(5/8)	(5/8)	(5/8)	(5/8)	(5/8)	(5/8)
Condensate Drain		VP25(Outer Diameter Φ32)											
Approximate Packing Measurement	m^3	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.26	0.26	0.26	0.26	0.26
Standard Accessories		Suspension Brackets											
Panel Model		P-N23NAQ											
Cabinet Color		Neutral White											
Outer Dimensions(H)	mm	37	37	37	37	37	37	37	37	37	37	37	37
	(in.)	(1-7/16)	(1-7/16)	(1-7/16)	(1-7/16)	(1-7/16)	(1-7/16)	(1-7/16)	(1-7/16)	(1-7/16)	(1-7/16)	(1-7/16)	(1-7/16)
Outer Dimensions(W)	mm	950	950	950	950	950	950	950	950	950	950	950	950
	(in.)	(37-3/8)	(37-3/8)	(37-3/8)	(37-3/8)	(37-3/8)	(37-3/8)	(37-3/8)	(37-3/8)	(37-3/8)	(37-3/8)	(37-3/8)	(37-3/8)
Outer Dimensions(D)	mm	950	950	950	950	950	950	950	950	950	950	950	950
	(in.)	(37-3/8)	(37-3/8)	(37-3/8)	(37-3/8)	(37-3/8)	(37-3/8)	(37-3/8)	(37-3/8)	(37-3/8)	(37-3/8)	(37-3/8)	(37-3/8)
Net Weight	kg	6	6	6	6	6	6	6	6	6	6	6	6
	(lbs)	(13)	(13)	(13)	(13)	(13)	(13)	(13)	(13)	(13)	(13)	(13)	(13)
Approximate Packing Measurement	m^3	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08

NOTES: 1.The nominal cooling capacity is based on following 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

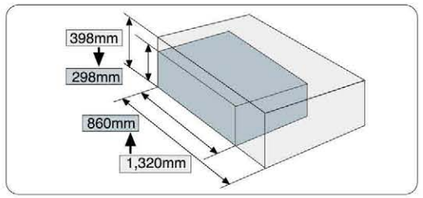
2.The sound pressure level is based on following conditions.1.5m beneath the unit.
The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

2-Way Cassette Type

SET FREE-RCD Technique Features

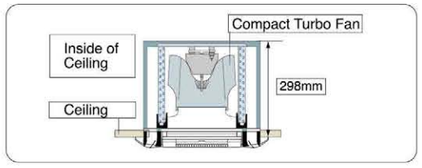
Downsizing and weight reduction simplify handling for easier renewal

The length of the 3.0HP is shortened from 1,320mm to 860mm, the height is also shortened, and the volume is reduced by about 50%. The reduced weight of 30kg also makes handling much easier.



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

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



Top-class noise control thanks to compact turbo fan

The three-dimensional twisted wings of the compact turbo fan greatly reduce noise, and electromagnetic disturbance is minimized by fan motor absorber.

Hard to get dirty, easy to clean

Auto-louvers are not flocked, thus the unit hardly gets dirty and is easy to clean.

Speed-up tap ensures comfortable air conditioning even when installed as in the high ceiling

Even rooms with a high ceiling can be comfortably air-conditioned by setting the speed-up tap with the remote controll switch.

*Anti-mold filter as standard accessory

Indoor Unit		2-Way Cassette Type						
Model		RCD-1.0FSN2	RCD-1.5FSN2	RCD-2.0FSN2	RCD-2.5FSN2	RCD-3.0FSN2	RCD-4.0FSN2	RCD-5.0FSN2
Power Supply		AC1Φ,220V~240V/50Hz,220V/60Hz						
Nominal Cooling Capacity	kW	2.8	4.0	5.6	7.1	8.0	11.2	14.0
	kcal/h	2,400	3,400	4,800	6,100	6,900	9,600	12,000
	Btu/h	9,600	13,600	19,100	24,200	27,300	38,200	47,800
Sound Pressure Level (High/Medium/Low)	dB(A)	34-32-30	35-32-30		38-34-31		40-36-33	43-40-36
Outer Dimensions(H)	mm	298	298	298	298	298	298	298
	(in.)	(11-3/4)	(11-3/4)	(11-3/4)	(11-3/4)	(11-3/4)	(11-3/4)	(11-3/4)
Outer Dimensions(W)	mm	860	860	860	860	860	1420	1420
	(in.)	(33-7/8)	(33-7/8)	(33-7/8)	(33-7/8)	(33-7/8)	(55-7/8)	(55-7/8)
Outer Dimensions(D)	mm	620	620	620	620	620	620	620
	(in.)	(24-7/16)	(24-7/16)	(24-7/16)	(24-7/16)	(24-7/16)	(24-7/16)	(24-7/16)
Net Weight	kg	27	27	27	30	30	48	48
	(lbs)	(60)	(60)	(60)	(66)	(66)	(106)	(106)
Refrigerant		R410A(Nitrogen-charged for Corrosion-resistance)						
Indoor Fan Air Flow Rate (High/Medium/Low)	m^3/min	10/9/8	13/11/9	15/13/11	19/16/14	19/16/14	29/24/21	34/29/25
Motor Power	W	35	35	35	55	55	35×2	55×2
Connections Refrigerant Piping		Flare-nut Connection(with Flare Nuts)						
Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ9.53	Φ9.53	Φ9.53	Φ9.53
	(in.)	(1/4)	(1/4)	(1/4)	(3/8)	(3/8)	(3/8)	(3/8)
Gas Line	mm	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88
	(in.)	(1/2)	(1/2)	(5/8)	(5/8)	(5/8)	(5/8)	(5/8)
Condensate Drain		VP25						
Approximate Packing Measurement	m^3	0.23	0.23	0.23	0.23	0.23	0.37	0.37
Panel Model		P-N23DNA					P-N46DNA	
Cabinet Color		Neutral White						
Outer Dimensions(H)	mm	30	30	30	30	30	30	30
	(in.)	(1-3/16)	(1-3/16)	(1-3/16)	(1-3/16)	(1-3/16)	(1-3/16)	(1-3/16)
Outer Dimensions(W)	mm	1100	1100	1100	1100	1100	1660	1660
	(in.)	(43-5/16)	(43-5/16)	(43-5/16)	(43-5/16)	(43-5/16)	(65-3/8)	(65-3/8)
Outer Dimensions(D)	mm	710	710	710	710	710	710	710
	(in.)	(27-15/16)	(27-15/16)	(27-15/16)	(27-15/16)	(27-15/16)	(27-15/16)	(27-15/16)
Net Weight	kg	6	6	6	6	6	8	8
	(lbs)	(13)	(13)	(13)	(13)	(13)	(18)	(18)
Approximate Packing Measurement	m^3	0.1	0.1	0.1	0.1	0.1	0.15	0.15

NOTES:

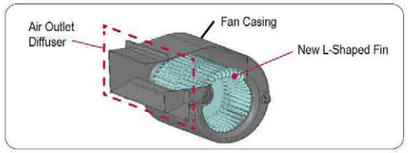
1. The nominal cooling capacity is based on following conditions:
   Indoor Air Inlet Temperature: 27°C DB(80°F DB)
   19.0°C WB (66.2°F WB)
   Outdoor Air Inlet Temperature: 35°C DB(95°F DB)
   Piping Length: 7.5 Meters Piping Lift: 0 Meter
2. The sound pressure level is based on following conditions. 1.5m 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.

Ceiling Type

SET FREE-RPC Technique Features

High Efficiency and Low Noise by New Fan Runner

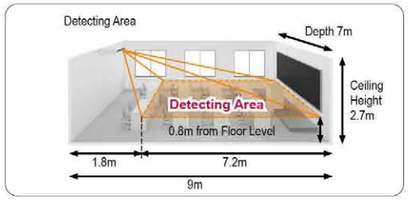
Newly-developed fan runner is adopted. By improving shapes of fin and air outlet, the fan efficiency is improved and the low noise performance is achieved.



Motion Sensor Control (Option)

The air conditioning capacity is saved automatically depending on a situation and the amount of detected human activity by adopting the motion sensor kit. In addition, the operation can be stopped automatically if the absent situation continues for more than 30 minutes*1.
The motion sensor can maintain the comfortable indoor environment and eliminate 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 from the remote control switch.

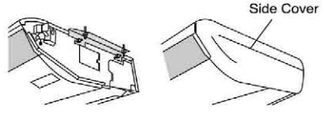


Simple Installation and Maintenance

- Installation time is much shorter
- A long-filter (Mildew-proof) is fitted as standard. No maintenance is required for about 2,500 hours of operation

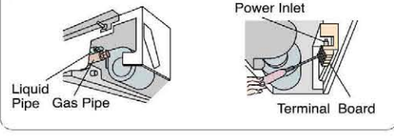
*For ordinary offices

(1)Unit suspension bolts are fitted externally for easy adjustment of suspending height , and are covered with side-covers for a good exterior appearance.



(2)Work space for refrigerant piping work is widened and tightening work is easily performed by removing side cover for piping

(3)Dip switches can be set by opening the electrical box.



Indoor Unit		Ceiling Type						
Model		RPC-1.5FSN3	RPC-2.0FSN3	RPC-2.5FSN3	RPC-3.0FSN3	RPC-4.0FSN3	RPC-5.0FSN3	RPC-6.0FSN3
Power Supply		AC1Φ,220V~240V/50Hz,220V/60Hz						
Nominal Cooling Capacity	kW	4.0	5.6	7.1	8.0	11.2	14.0	16.0
	kcal/h	3,400	4,800	6,100	6,900	9,600	12,000	13,800
	Btu/h	13,600	19,100	24,200	27,300	38,200	47,800	54,600
Sound Pressure Level (High2/High/Medium/Low)	dB(A)	37/35/31/28	38/35/31/28	38/35/32/29	40/37/33/29	44/42/37/32	48/45/41/35	49/47/42/36
Cabinet Color		Neutral White						
Outer Dimensions(H)	mm	235	235	235	235	235	235	235
Outer Dimensions(W)	mm	960	960	1270	1270	1580	1580	1580
Outer Dimensions(D)	mm	690	690	690	690	690	690	690
Net Weight	kg	26	27	35	35	41	41	41
	(lbs)	(57)	(59)	(77)	(77)	(90)	(90)	(90)
Refrigerant		R410A (Nitrogen-charged for Corrosion-resistance)						
Indoor Fan Air Flow Rate (High2/High/Medium/Low)	m^3/min	15/13/11/9	15/13/11/9	19/16.5/14/11.5	21/18.5/15.5/12.5	30/26.5/22/17	35/31/25.5/20	37/32.5/27/21
	(cfm)	(530/459/388/318)	(530/459/388/318)	(671/583/494/406)	(742/653/547/441)	(1059/936/777/600)	(1236/1095/900/706)	(1306/1148/953/742)
Motor Power	W	50	50	80	80	160	160	160
Connections Refrigerant Piping		Flare-nut Connection (with Flare Nuts)						
Liquid Line	mm	Φ6.35	Φ6.35	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53
	(in.)	(1/4)	(1/4)	(3/8)	(3/8)	(3/8)	(3/8)	(3/8)
Gas Line	mm	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88
	(in.)	(1/2)	(5/8)	(5/8)	(5/8)	(5/8)	(5/8)	(5/8)
Condensate Drain		VP20	VP20	VP20	VP20	VP20	VP20	VP20
Approximate Packing Measurement	m^3	0.23	0.23	0.31	0.31	0.38	0.38	0.38
Standard Accessories		Wall Mounting Bracket						

NOTES:
1.The nominal cooling capacity is based on following 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

2. The sound pressure level is based on following conditions. 1 Meters Beneath the Unit and 1 Meters from Inlet Grille.
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.

Wall Type

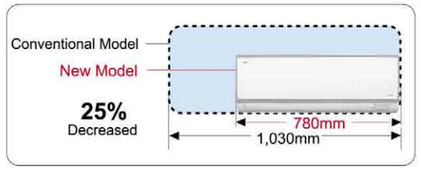
SET FREE-RPK Technique Features

Easy Installation

The installation of remote control switches has been improved. A terminal board for the use of wired remote control switches has been added, along with a change over switch allowing easy selection between wired and wireless remote control switches.

Industry-leading Compactness

With a width of 780 mm, it can be installed in a small room between pillars. Compared with conventional model the width is about 25% less, for greater flexibility of installation in about 900mm.



Light Weight Design

Units weight has been vastly reduced.

Model

HP	Weight(kg)
0.8~1.5	10
1.8~2.5	13.5

Wireless Remote Controller as Standard Part

Units are equipped with wirelless remote switch (standard) and remote control switch can be supplied as optional part which can meet various central control needs in many cases.

PC-LH3A
Wireless Remote Control Switch

PC-AR PC-ARQ
Remote Control Switch

Easy Troubleshooting

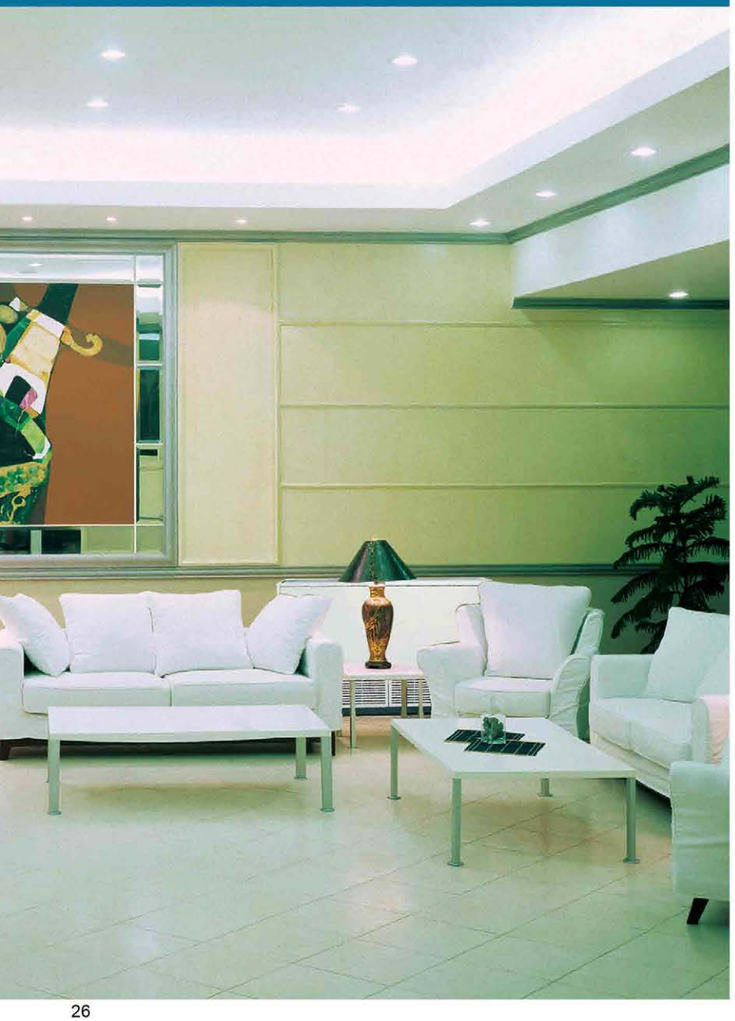
An alarm code function has been added to the front panel LEDs enabling the alarm code to be checked when using the wireless remote control switch.

Indoor Unit		Wall Type							
Model		RPK-0.8FSNQS	RPK-1.0FSNQS	RPK-1.3FSNQS	RPK-1.5FSNQS	RPK-1.8FSNQS	RPK-2.0FSNQS	RPK-2.3FSNQS	RPK-2.5FSNQS
Power Supply		AC1Φ,220V~240V/50Hz.220V/60Hz							
Nominal Cooling Capacity	kW	2.2	2.8	3.6	4.0	5.0	5.6	6.3	7.1
	kcal/h	1,900	2,400	3,100	3,450	4,300	4,800	6,400	6,100
	Btu/h	7,500	9,600	12,300	13,600	17,000	19,100	21,500	24,200
Sound Pressure Level (High/Medium/Low)	dB(A)	38/36/32	38/36/32	40/36/34	41/38/35	41/38/35	41/38/35	44/41/38	44/41/38
Outer Dimensions(H)	mm	280	280	280	280	290	290	290	290
	(in.)	11	11	11	11	12	12	12	12
Outer Dimensions(W)	mm	780	780	780	780	1,050	1,050	1,050	1050
	(in.)	31	31	31	31	41	41	41	41
Outer Dimensions(D)	mm	220	220	220	220	220	220	220	220
	(in.)	9	9	9	9	9	9	9	9
Net Weight	kg	10	10	10	10	13.5	13.5	13.5	13.5
	(lbs)	22	22	22	22	30	30	30	30
Refrigerant		R410A(Nitrogen-charged for Corrosion-resistance)							
Indoor Fan Air Flow Rate (Cooling/Heating)	m^3/min	510/450/390	510/450/390	550/450/400	600/510/450	720/620/520	720/620/520	820/720/620	820/720/620
Motor Power	W	30	30	30	40	50	50	60	60
Connections Refrigerant Piping		Flare-nut Connection(with Flare Nuts)							
Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35
	(in.)	(1/4)	(1/4)	(1/4)	(1/4)	(1/4)	(1/4)	(1/4)	(1/4)
Gas Line	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88
	(in.)	(1/2)	(1/2)	(1/2)	(1/2)	(5/8)	(5/8)	(5/8)	(5/8)
Condensate Drain		VP16	VP16	VP16	VP16	VP16	VP16	VP16	VP16
Approximate Packing Measurement	m^3	0.12	0.12	0.12	0.12	0.15	0.15	0.15	0.15

NOTES:

1. The nominal cooling capacity is based on following 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
2. The sound pressure level is based on following conditions. 1 Meters Beneath the Unit and 1 Meters from Inlet Grille.
   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.

Floor Type
Floor Concealed Type



SET FREE-RPF/RPFI Technique Features

Floor Type

Slim design for perimeter zone air conditioning

Space-saving slim unit, only 220mm 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.

Floor Concealed Type

Compact design for limited space inside of perimeter wall

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.

Indoor Unit		Floor Type		Floor Concealed Type			
Model		RPF-1.0FSN2E	RPF-1.5FSN2E	RPFI-1.0FSNQ	RPFI-1.5FSNQ	RPFI-2.0FSNQ	RPFI-2.5FSNQ
Power Supply		AC1Φ,220V~240V/50Hz,220V/60Hz		AC1Φ,220V~240V/50Hz,220V/60Hz			
Nominal Cooling Capacity	kW	2.8	4.0	2.8	4.3	5.6	7.1
	kcal/h	2,400	3,400	2,400	3,700	4,800	6,100
	Btu/h	9,600	13,700	9,600	14,700	19,100	24,200
Sound Pressure Level (High/Medium/Low)	dB(A)	35-32-29	38-35-31	37-34-31	40-38-35	42-38-36	45-43-40
Cabinet Color		Silky White		———			
Outer Dimensions(H)	mm	630	630	620	620	620	620
	(in.)	(24-13/16)	(24-13/16)	(24-7/16)	(24-7/16)	(24-7/16)	(24-7/16)
Outer Dimensions(W)	mm	1045	1170	900	900	1170	1170
	(in.)	(41-1/8)	(46-1/16)	(35-7/16)	(35-7/16)	(46-1/16)	(46-1/16)
Outer Dimensions(D)	mm	220	220	202	202	202	202
	(in.)	(8-11/16)	(8-11/16)	(7-15/16)	(7-15/16)	(7-15/16)	(7-15/16)
Net Weight	kg	25	28	25	26	31	31
	(lbs)	(55)	(62)	(55)	(57.2)	(68.2)	(68.2)
Refrigerant		R410A (Nitrogen-charged for Corrosion-resistance)		R410A (Nitrogen-charged for Corrosion-resistance)			
Indoor Fan Air Flow Rate (High/Medium/Low)	m^3/min	8.5/7/6	12/10/9	8/7/6	10/8/7	14.5/12.5/10.5	16/14/12
	(cfm)	(300/247/212)	(424/353/318)	(282/247/212)	(353/282/247)	(512/441/370)	(565/494/424)
Motor Power	W	20	28	16	25	40	50
Connections Refrigerant Piping		Flare-nut Connection(with Flare Nuts)		Flare-nut Connection(with Flare Nuts)			
Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53
	(in.)	(1/4)	(1/4)	(1/4)	(1/4)	(1/4)	(3/8)
Gas Line	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88
	(in.)	(1/2)	(1/2)	(1/2)	(1/2)	(5/8)	(5/8)
Condensate Drain		18.5OD	18.5OD	VP25	VP25	VP25	VP25
Approximate Packing Measurement	m^3	0.26	0.29	0.19	0.19	0.23	0.23

NOTES:

1.The nominal cooling capacity is based on following 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

2.The sound pressure level is based on following conditions.
Floor type: 1.5 meters from floor level.
Floor concealed type: 1.5 meters from the unit and 1.5 meters from the floor level.
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.
The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

Optional Parts

4-Way Cassette Type

Model		RCI-1.0~2.5FSN1Q	RCI-3.0~6.0FSN1Q
Receiver Kit for Wireless Control		PC-RLHN8/ALHN	PC-RLHN8/ALHN
3-Way Outlet Parts Set		PI-23LS5	PI-23LS5
Kit for Deodorant Filter	Deodorant Filter	F-23L4-D	F-46L4-D
	Filter Box	B-23H4	B-23H4
Antibacterial Long-life Filter		F-23L4-K	F-23L4-K
Fresh Air Intake Kit*1		OACI-232	OACI-232
T-pipe Connection Kit*2		TKCI-232	TKCI-232
Duct Adapter*3		PD-75(Φ75)	PD-75(Φ75)

In-the-Ceiling Types (Low/High Static Pressure)

Model		RPI-0.8~1.5FSNQL/H	RPI-1.8~2.5FSNQL/H	RPI-3.0~4.0FSNQL/H	RPI-5.0~6.0FSNQL/H
W Long-life Filter Kit		KW-PP1Q	KW-PP2Q	KW-PP3Q	KW-PP4Q
Activated carbon Filter Kit	Filter Kit	KW-C3Q	KW-C4Q	KW-C5Q	KW-C6Q
	Filter	H7C03335A	H7C03335B	H7C03335C	H7C03335D
Drain-up Mechanism Kit		DUPI-132C	DUPI-132C	DUPI-162	DUPI-162
Receiver Kit For Wireless Control		PC-RLH11/PC-ALHZ	PC-RLH11/PC-ALHZ	PC-RLH11/PC-ALHZ	PC-RLH11/PC-ALHZ

Low-Height In-the-Ceiling Type

Model		RPIZ-0.8~1.5FSN1Q	RPIZ-1.8~2.5FSN1Q
W Long-life Filter Kit		KW-PP5Q	KW-PP6Q
Activated carbon Filter Kit	Filter Kit	KW-AC1Q	KW-BC1Q
	Filter	H7C02165A	H7C02165B
Primary filter + Activated carbon Filter Kit	Filter Kit	KW-AC2Q	KW-BC2Q
	Filter	H7C02165A	H7C02165B
Receiver Kit For Wireless Control		PC-RLH11/PC-ALHZ	PC-RLH11/PC-ALHZ

NOTES: *1: It is necessary to use the fresh air intake kit for connecting the fresh air intake duct to the unit.(4-way cassette type has a fresh air intake on its shell).
*2: It is used when two air intakes(Φ100x2)of the fresh air intake kit is changed to one air intake(Φ150x1).
*3: It is used when fresh air intake duct are connected to the indoor unit directly.

Control System

Model		RPI-FSNQL/H	RPIZ-FSN1Q	RCI-FSN1Q	RPK-FSNQS	RPC-FSN3	RCD-FSN2
Remote Control Switch	PC-AR/PC-ARQ (Without Cable) *1	○	○	○	○	×	○
	PC-ARF	○	○	○	○	○*4	○
Wireless Remote Control Switch	PC-LH3A	○	○	○	○	×	○
Half-size Remote Control Switch	PC-ARH	○	○	○	○	×	○
7-Day Timer	PSC-A1T*2	○	○	○	○	○	○
Central Station	PSC-5S,PSC-A64S*3	○	○	○	○	○	○
P/C Network System	CS-NET	○	○	○	○	○	○

○ : Applicable × : Not Applicable

NOTES: *1:As the PC-AR/PC-ARQ does not include a remote control cable,prepare one in the field.
*2:Scheduled operation is possible by using PSC-A1T with PSC-5S,PSC-A64S or PC-AR/PC-ARQ controllers.
*3:Supply 220V or 240V.
*4:When FSN3 type indoor unit is used with the remote control switch,PC-ARF must be used.

MEMO NO._____
DATE / /