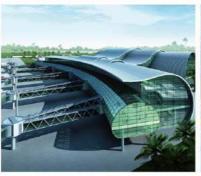
HITACHI Inspire the Next









Inverter-driven Multi-split Central Air Conditioning System





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Super Energy Conservation

A New Energy-saving Model of Multi-split Central Air Conditioning

Cutting-edge Technological Innovation is the Cornerstone of Energy Conservation Achievement for Hitachi

Energy conservation in central air conditioning can be carried out through the following two ways, even only effective coordination of these two could achieve the maximum energy efficiency.

Management Energy Saving: On the premise of comfort in buildings, the objective of energy saving can be reached by constraints on behavior or proper operation adjustment of equipment.

Technological Energy Saving: Selecting the high efficient Central Air Conditioning with leading technology to save energy. Hitachi makes good use of innovation and optimization of every key technology to make the latest SET-FREE FSNA6Q series as a master of energy-saving.





High Efficiency Scroll Compressor Leading Industry Trends

In 1983, Hitachi invented the first air conditioning scroll compressor in the world and owned the patent. Nearly 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 chamber scroll compressor in the industry which has the function of interior oil separating. At the same time, considering 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.

In 2008, Hitachi applied the cutting-edge large capacity scroll compressor to SET-FREE Central Air Conditioning system.









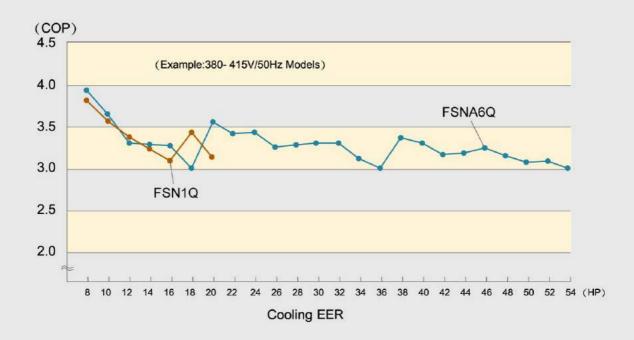






High Efficiency and Energy Saving

Refrigerant cycle and control have improved for energy saving.



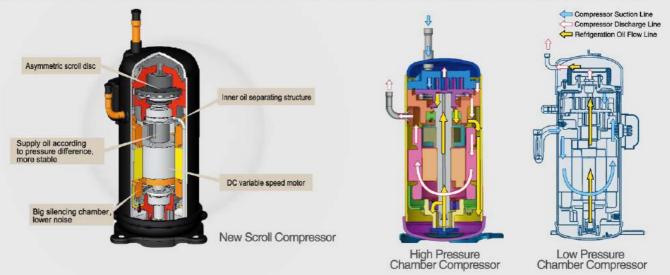




The Hitachi Patented High Efficiency Scroll Compressor

Hitachi Invented the First High-pressure Chamber Scroll Compressor with a Function of Interior Oil Separating.

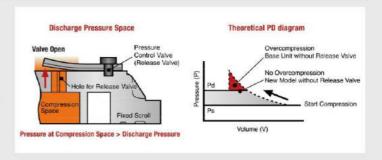
The large capacity high-pressure chamber scroll compressor adopts an interior oil separating section, maintains most of lubricating oil in compressor by the use of the interior oil mist separator and oil-returning pipe design. Only much less oil is discharged from compressor along with refrigerant, which avoids cooling capacity decrease due to redundant oil retention in refrigeration cycle, further improves efficiency. Adoption of anti-overcompression technique effectively prevents power consumption increase arises from overhigh condensing pressure, realizes efficient and stable operation.



Anti-overcompression Technique

Hitachi's high pressure chamber scroll compressor adopts patented Release Valve Technique, which effectively prevents the overcompression when compressor is in partial load operation and drastically promotes the intermediate pressure performance.

- · Orbiting Scroll Lifting Force Optimization is improved
- · Leakage Loss Reduction
- Improved Intermediate Pressure Performance

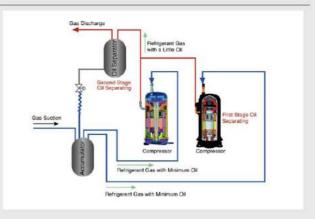




The Originated 2-Stage Oil Separating Technique Improves Reliability of System

The originated 2-stage oil separating technique adopts Hitachi proprietary compressor which has high efficient function on oil separating to conduct the first stage oil separation.

There is only a small proportion of refrigeration oil which is circulated together with refrigerant gas to oil separator and then separated as the second stage oil separating. Therefore, much less oil enters refrigerating circulation, accordingly enough oil can be guaranteed for lubricating compressor. The system can operate safely and reliably.



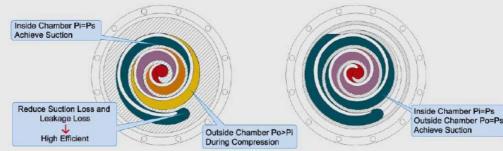
Exclusive Asymmetric Scroll Technology

The asymmetric scroll structure of Hitachi compressor effectively helps reduce the refrigerant gas leakage loss in the process of suction and compression, enhances operating efficiency and reliability.

Asymmetric scroll: the time difference between the suction of outside chamber and inside chamber is 180°; The pressures of outside chamber and inside chamber are different. The pressure distribution in compressing chambers are asymmetric.

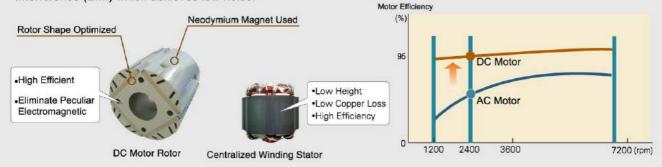
Symmetric scroll: the outside chamber and inside chamber end gas suction at the same time, the pressures of outside chamber and inside chamber are equal. The pressure distribution in compressing chamber are symmetric.





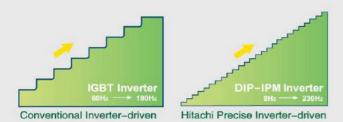
DC Inverter-driven Compressor

By the use of DC motor, the performance is improved at around 20~40Hz where the operation time of the inverter compressor is longest. Meanwhile, the rotor of compressor's motor is divided into two parts to suppress electromagnetic interference (EMI) which achieves low noise.





The Hitachi Patented Precise Inverter Technique



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

Oil-equalization Control Technology Between Outdoor Units

Synthetic application of scroll compressor with internal oil separating function, efficient external oil separator, accumulator, and intelligent oil level control technology regulates the oil level within the proper range, ensures oil balance between outdoor units, and guarantees system stability and reliability.



Rotational Operation to Distribute Load of Outdoor Units

Regulating the operation time of each outdoor unit leads to load reduction on compressors. 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.





Two-stage Super-cooling Circulation Technique Improves Cooling Capacity and Total Piping Length

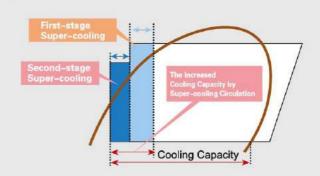
A sub-cooling section in the heat exchanger of outdoor unit is designed to realize the first-stage super-cooling. Furthermore, a high efficient recooler is applied to achieve the second-stage super-cooling. The total undercooling can reach up to 27 degree (taking 14 HP as an example).

Two-stage Super-cooling Cyclic Graph

Recooler Super-cooling

- Two-stage super-cooling circulation enhances cooling capacity
- Pressure loss of refrigerant flowing in pipe is reduced
- Improved undercooling contributes to stable operation of EEV
- Improved undercooling allows extension of total piping length

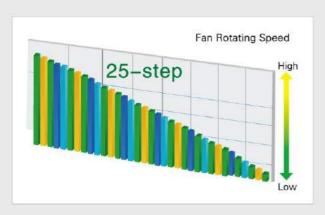
Two-stage Super-cooling Pressure-enthalpy Graph



Outdoor Heat Exchange Technique Leads to Large Improvement of Heat Exchange Efficiency

25-step Fan Speed Control

The DC variable-speed motor is adopted in outdoor unit, which results in efficiency promotion and power input reduction. The outdoor fan speed can be adjusted by 25 steps.





Efficient Axial Fan

- . The stability of discharge pressure and suction pressure of compressor is assured
- The stability of dynamic flow (capacity) allocation of indoor unit is assured
- Quick response of control system is improved, accordingly the system stability, durability and reliability are assured

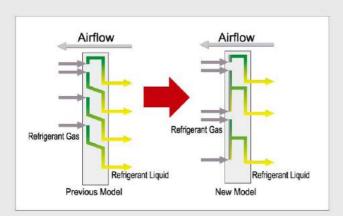


New Efficient Heat Exchanger

New efficient heat exchanger adopts Φ 7.0 female screw thread copper pipes with high thermal conductivity and new Step Fin, which leads to air flow resistance reduction, even and full heat exchange and heat transfer improvement.

"2 in 1" Refrigerant Circuit

The specially designed "2 in 1" refrigerant flow optimizes the efficiency of heat exchanger.



Newly Developed Fin with Efficient Heat Transfer

New fin and copper pipe contribute to promote heat transfer efficiency.

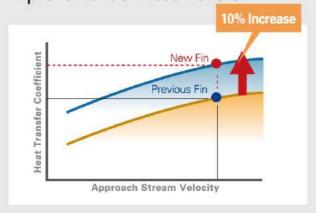
Hitachi patented female screw thread copper pipe

Air Flow

Previous Fin

Latest Fin

Improvement of Heat Transfer



Reduction of Air Flow Resistance



New Efficient Axial Fan

The newly developed efficient axial fan with new-shaped blade helps decrease turbulence around. It is made of special material which hold an obvious effect to absorb vibrating noise and minimizes the "Buzz" dramatically.





Wide Range of External Static Pressure of Outdoor Units

High efficient axial fan designed with computer fluid analysis, finite element method and aerodynamic simulation analysis owns optimized inlet and outlet angle, as well as a special flared outlet, which results in higher external static pressure allowance and sound air circulation.

- Application of efficient fan lowers motor power consumption
- Top-class external static pressure in industry: 60Pa



Highest Level in Noise Reduction



Adoption of Hitachi High Pressure Chamber Scroll Compressor

Sophisticated manufacturing technology brings about little vibration and low noise level.



Adoption of DIP-IPM Inverter

IGBT+Auto-protection, silencer and electronic interference filter are applied to lower noise.

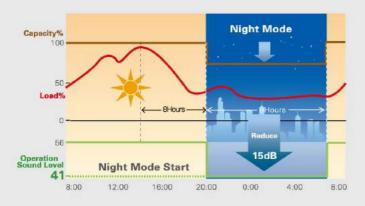


Noise Deadening of Fan Motor

The material of fan motor is cast aluminum. The motor bracket is of non-resonant hanger structure, which ensures stable motor performance, lowers vibrating noise.

Silent Mode at Night

The outdoor unit has a peculiar function of night-shift setting, which reduces the noise level by max.15 dB (8HP) when in full-load operation.



Wide Working Range

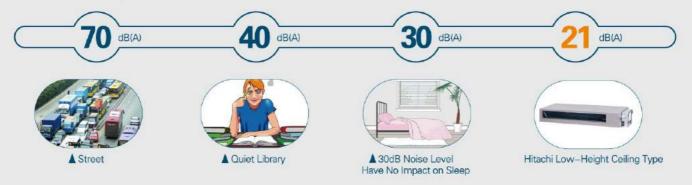
SET-FREE FSNA6Q can handle a wide range of outside air condition, thus extending the flexibility of installation space and climatic environment.





Indoor Unit Noise Control

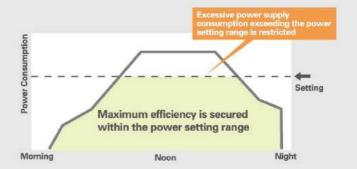
In accordance with application situation and structure, Hitachi has been studying the technical means and installation methods for noise reduction of indoor units from various aspects of fan motor, fan blade and air duct layout, which provides customers with the quietest air conditioned environment.



Intelligent Demand Control

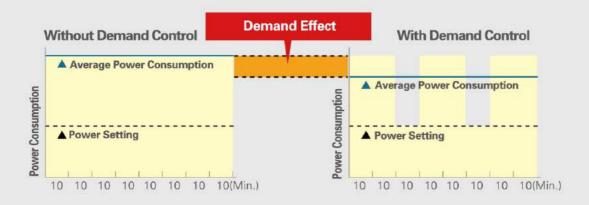
Self-demand Control

A newly developed self-demand function has largely improved energy-saving effect. Since the current is self-detected and demand control performs 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. but not just switches on and off machine. Instead of stuffy interior environment, the system can offer maximum comfort with minimum power consumption.



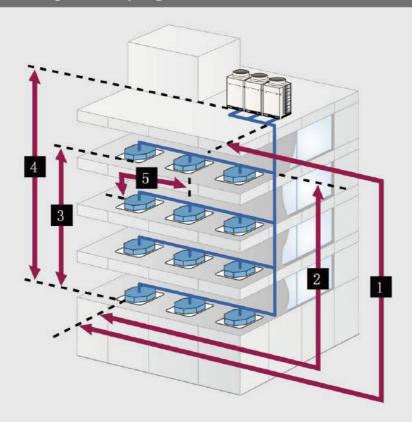




Design and Installation

System Configuration Suitable for Design and Installation

More Flexible Refrigerant Piping Work



	Current Model (FSN1Q)
Total maximum piping length	300m
Max.piping length	150m
Between first branch and indoor unit	40m
Max.piping length	30m

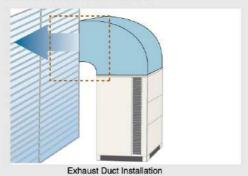
New Model (FSNA6Q)
1,000m
165m
90m
40 m

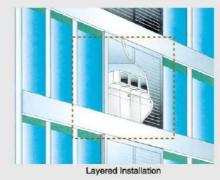
- Max.piping length:165m⁻¹
- ☑ Between first branch and indoor unit:90m or less
- Height difference between highest and lowest indoor units:15m or less
- El Height difference between outdoor and indoor units:50m⁻²
- 同 Max.length after branch:40m
- *1: For 100m or more, the pipe diameter will be one size 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.

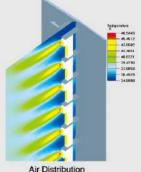


Layered Installation for Highrise Building

The use of exhaust duct allows layered installation of outdoor units. Outdoor fan motor can provide a higher external static pressure and a long distance air supply, which prevents air return from short-cut in an effective way, then ensures a sound ventilation and heat transfer.

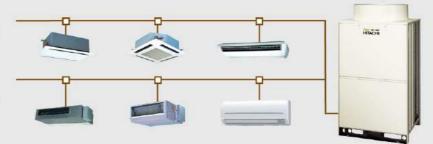






Various Model Types Easily Match Different Spatial Layout

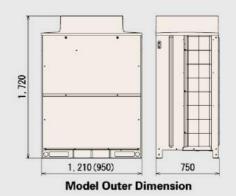
Wide capacity range of outdoor units enables free model combination relating to the actual condition of building. There are **80** models in **9** types of indoor units for selection. Planner can choose appropriate type and capacity of indoor units according to interior decoration and functions.



Compact and Lightweight Design, Save Space

Ease and flexibility of installation are further enhanced by adopting the outdoor unit's lightweight and compact design.

The elevator can be used to uplift the base unit (Max.18HP) separately.





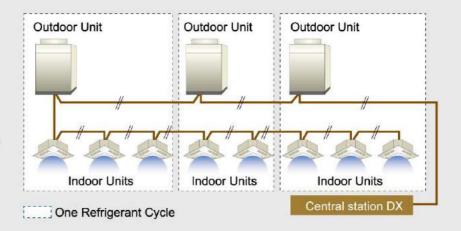


Simple and Convenient Wiring Work

Communication between multiple outdoor units and indoor units is via H-LINK II system, per H-LINK II can support up to **64** outdoor units and **160** indoor units.

Non-polarity Twisted-pair Wire

Transmission cable adopts non-polarity twisted-pair wire which can avoid the polarity mismatching between anode and cathode.



Fresh Indoor Air

All-fresh Air Indoor Unit

All-fresh air indoor unit is a fresh air processing equipment for cooling outdoor air and with independent air supply.

Other air conditioning indoor units are not required to bear ambient air load and cross infection can be avoided. It can be interfaced to H-LINKII together with other air conditioning systems.

Model	RPI-5.0KFNQ	RPI -8.0KFNQ	RPI-10.0KFNQ	
Cooling Capacity (kW)	14.0	22.4	28.0	

Model	RPI-12.0KFNQ	RPI -16.0KFNQL/H	RPI-20.0KF NQL/H/LF/HF
Cooling Capacity (kW)	33.5	45.0	56.0

Humanized DIP Setting

A humanized DIP adjustment switch is specially designed for indoor units less than 3HP. When indoor load increases or decreases, the DIP switch can be adjusted to realize a capacity increments of ± 0.25 HP to match the load fluctuation, which benefits users much.

				Ir	ndoor Unit	Туре					DIP Switch Set	ting
NO.	HP	RPI	APIZ	RCI	RCD	RPK	RPF	APFI	RPC	Decreased Capacity	Standard Capacity	Increased Capacity
1	0.8 ← 1.0	•	•							OFF OFF	P S ON OFF	
2	1.0 _→ 1.3		•		•	•	•	•		330000000000000000000000000000000000000	OFF 1234	1 2 3 4 OFF
3	1.3← 1.5	•		•	•	•	•	•		T 2 3 d OFF	OFF 1 2 3 4	M3-0-0-0-40.
4	1.5 → _{1.8}	•			•	•					ON OFF	T 2 3 4
5	1.8← 2.0		•		•	•	•	•	•	ON OFF	OFF	
6	2.3← 2.5		•		•		•	•		ON OFF	OFF 1 2 3 4	
	2.5→ _{2.8}				0				•		ON OFF	1 2 3 4 OFF



Intelligent Control

More Humanized System and More **Convenient Operation**

Various Controllers

Remote Control Switch





PC-AR PC-ARQ

the H-LINKII

- 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
- 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
- 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...

Wireless Remote Control Switch



PC-LH3A

Compatible with the H-LINKII

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

7-Day Timer



PSC-A1T

Compatible with the H-LINKII

- 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

(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, PSC-5S*

Compatible with the H-LINKII

Up to 160 indoor units

Up to 128

Up to 64remote control groups 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
- 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.

* only for H-LINK

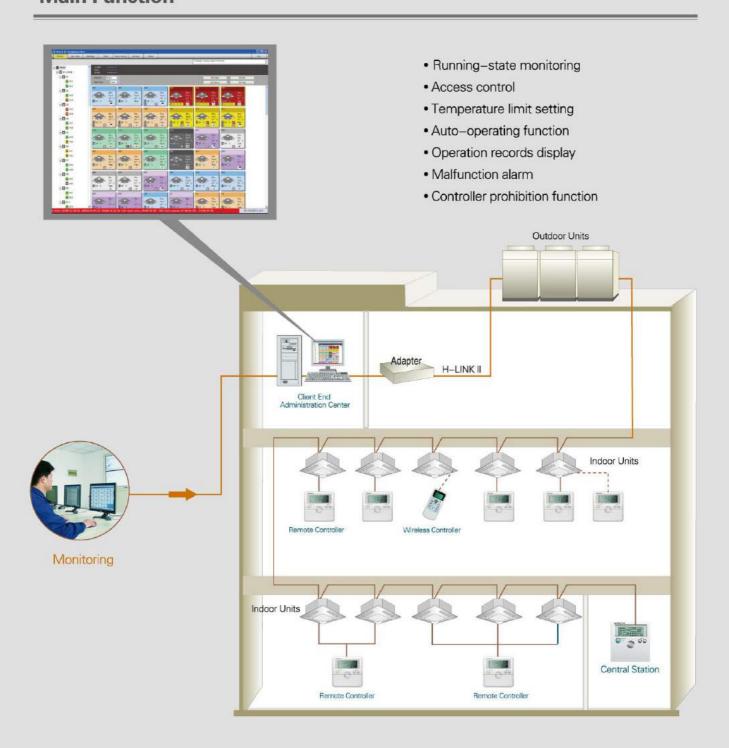


DX Computer Controlled Network System

Central Station DX is a powerful computer controlled network system with easy operation which can monitor and control utmost **1024** outdoor units and **2560** indoor units through **H-LINK II** connection.

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

Main Function





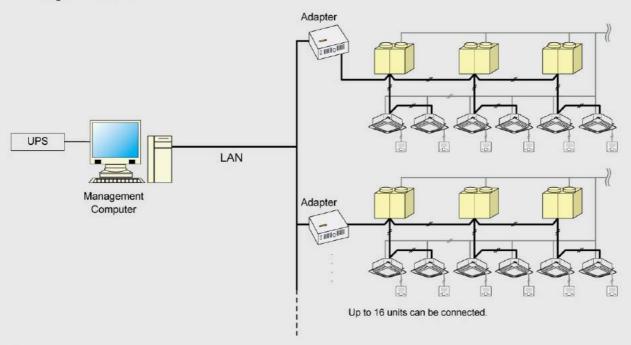
Features

- (1) Managing Maximum 2048 Groups (2560 Indoor Units) of Air Conditioners Up to 2560 units of Air Conditioners can be controlled and monitored by one computer.
- (2) Improved Operability by Tree View and Simple Schedule Setting
- · User-friendly display is achieved by laying out whole configuration of the air conditioning system by the tree view.
- · "Simple Schedule Setting"is adopted to achieve easy schedule setting.
- (3) Graphic Display for Trend data

"Visualization" is achieved by showing graphics of elapsed operation time, temperature setting and intake temperature for each specified Group or air conditioner.

- * Some items may be shown upon certain condition only.
- (4) Outdoor Unit Optional Function Setting, Capacity Control, Lower Noise Control
- · Outdoor Unit Optional Function Setting, Capacity Control and Lower Noise Control can be set from this system.
- · Capacity and Noise can be controlled via schedule setting or manual operation by a user.
- * Available only if these functions are supported by the outdoor unit.
- (5) Adopting Operation Ratio

The operation ratio function can be controlled on the same display with monitored air conditioners using the changeover button.



NOTES:

- It is recommended for the management computer to connect to UPS (Uninterruptible Power Supply).
- 2. Only 1 (one) management computer can exist on 1 (one) system .
- 3. Use the management computer exclusively to this system.
- 4. Up to 16 adapters (PSC-A128WX) can be connected to 1 (one) system .
- 5. LAN with wake on LAN function or RS-232C Interface is required for UPS.

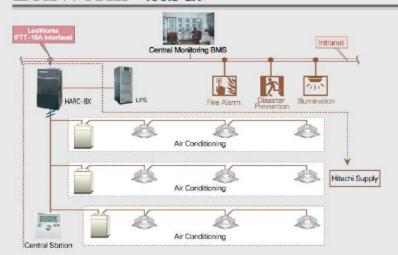


Building Management System

Compatible to multiple communication protocol of Lonworks, BACnet, RS-485 etc. Connectible to BMS or Smart Home System via HARC-BX, HC-A64BNP or HLRSCON all of which can connect to Max. 64 indoor units.

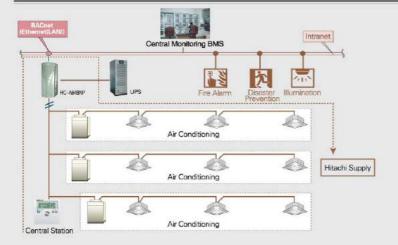
- · Real-time operation status monitoring for inquiry
- . Operation order from monitoring center

LonWorks HARC-BX



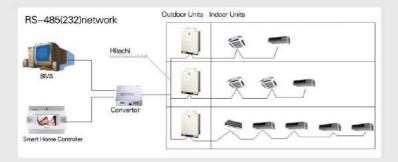
- Running-state monitoring / On-off setting
- Operating mode setting
- Temperature setting and monitoring
- Airflow setting and monitoring
- Wind setting and monitoring
- Alarm monitoring and code display
- Wireless controller permission/prohibition
- Outdoor and indoor temp. monitoring
- All units On/off control
- · Outlet air temp. monitoring

BACnet HC-A64BNP



- Running-state monitoring / On-off setting
- Operating mode setting
- Temperature setting and monitoring
- Airflow setting and monitoring
- Alarm monitoring and code display
- Communication failure display
- Wireless controller permission/prohibition
- · Indoor temp. monitoring
- Filter cleaning prompting

HLRSCON



- On-off setting
- Operating mode setting
- Airflow setting and monitoring
- Wind setting and monitoring
- Temperature setting
- · Inlet air temp. monitoring
- · All units On/off control
- Alarm monitoring and code display



Maintenance

All-directional Maintenance and Service

Intelligent Operation

SET-FREE FSNA6Q series is highly intelligentized and has no requirement for machine room, therefore it can achieve unattended operation and much more flexible and convenient control.



Self-diagnosis and Intelligent Operation Inspection

Through remote controller or 7-segment LED 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.







7-Segment Display

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 ofPCB, 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

Service Checker is designed to quickly inspect the units operating status. Problems can be found out as early as possible, then solution can be taken accordingly.





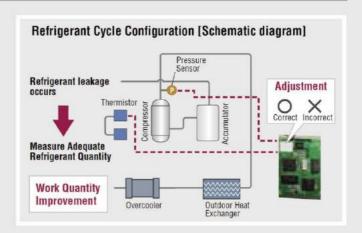
Automatic Simple Judgement System for Refrigerant Amount

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

Factors for judgement

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

- Refrigerant Cycle Temperature
- Refrigerant Saturation Temperature
- Outdoor Unit Expansion Valve Data
- Indoor Unit Data



Double Back-up Operation Function

The Backup Operation Function prevents the system from coming to a complete stop when outdoor unit failure occurs.

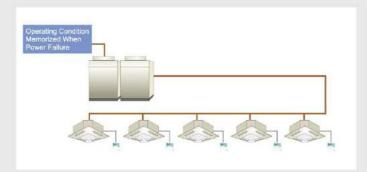
- 1. As one of outdoor units breaks down, the rest of outdoor units in the same refrigerant system can turn to operate urgently (more than 18HP system practicable).
- 2. As one compressor is failed, the other compressor in the same outdoor unit can be set to emergency operation mode.

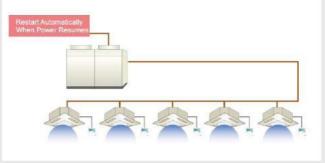


Emergency Operation

Automatic Reset Function

The operating data can be recorded automatically as power failure occurs. When the power supply is restored, the system can fulfill automatic start-up (manual operation allowed), the previous operation mode can be renewed without being reset, which brings more intelligent and considerate service to users.







Comfortable, Healthy and Low Carbon

Ultimate User Experience

Focus on Energy-saving, High Efficient Partial Load Operation

As for business space, most of the time, only some of the indoor units are running simultaneously. Therefore, to measure if the air conditioning is energy-saving should depend on the energy efficiency under partial load. Hitachi FSNA6Q works out a remarkable performance on partial load which contributes to realize a superb energy-saving.



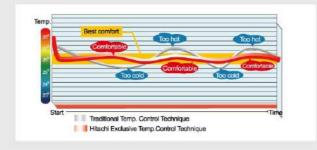


This graph shows that the operation time of central air—conditioning in this building is longest in a duration of 30%~40% cooling load in which the operation efficiency is highest. Therefore, the energy–saving effect is significant.

Focus on Comfort, Harmony Between People and Air

Particular Outlet Air Temperature Sensor Designed for Temperature Control

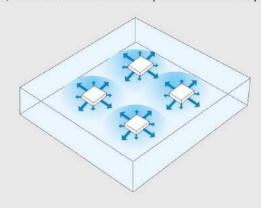
Compared with indoor temperature control in conventional air conditioning according to temperature sensors placed on air inlet and wireless controller, FSNA6Q series adds an outlet air temperature sensor, adjusts refrigerant flow by controlling high-precision EEV, thus achieving a temperature control precision of 0.5 °C and satisfying users' comfort need.



4-Way Circulating Airflow Causes Temperature Uniformity

Hitachi 4-way cassette type distributes the airflow to every corner of the room by 360° air supply and adjustment of louver position.

All-directional circulating airflow contributes to avoid the dead air in corner, creates the most comfortable space with uniform temperature.

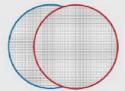




Focus on Healthy, Improve Interior Air Quality

Sophisticated Antibacterial Technology (Indoor Units)

Hitachi high performance antibacterial filter adopts double-layer antibacterial structure (long-acting antibacterial filter and high performance antibacterial filter), adds active enzyme with a strong bactericidal function, which can restrain and kill bacteria and mould attached to the filter surface, as well as inhibit the reproduction of bacteria and mould on the high performance filter material and maintain fresh air in room.



Double-layer Antibacterial Filter



(社) 繊維評価技術協議会 認証番号 0498A03 制 菌 加 工 (繊維上の耐機の爆発を抵制します。) 職動方法(商転写法) 係名:有最条(傾隔アンモニの人権)

株式会社 アコシ・映光産業株式会社

Japan Certificate

Fresh Air Introduction

Hitachi FSNA6Q series introduces outdoor fresh air into indoor space via the all-fresh air indoor units connected, improves the indoor oxygen content, constantly remains the interior fresh degree and creates a healthy environment for people's lives.



Focus on Environmentally Friendly, Create Low Carbon Life Space

RoHS Reaction

Actively respond to Europe RoHS directive, control the use of hazardous substance strictly.



R410A Environmentally Friendly Refrigerant, Protect Ozone Layer

R410A is a new non-toxic and harmless environmentally friendly refrigerant which has been worldwide affirmed and applied. Hitachi's newly launched FSNA6Q series adopts R410A refrigerant that doesn't destroy the environment, brings temperature, humidity, freshness and health to every inch of space as well as saving energy.





outdoor Units & Indoor Units



8HP/10HP/12HP

14HP/16HP/18HP

20HP

22HP/24HP/26HP

28HP/30HP/32HP/34HP/36HP

HP	Model	Nominal Cooling Capacity (kW)		Combination		Connectable Indoor Units
8 HP	RAS-8FSNA6Q	22.4	RAS-8FSNA6Q			13
10 HP	RAS-10FSNA6Q	28.0	RAS-10FSNA6Q			16
12 HP	RAS-12FSNA6Q	33.5	RAS-12FSNA6Q			19
14 HP	RAS-14FSNA6Q	40.0	RAS-14FSNA6Q			23
16 HP	RAS-16FSNA6Q	45.0	RAS-16FSNA6Q			26
18 HP	RAS-18FSNA6Q	50.0	RAS-18FSNA6Q			26
20 HP	RAS-20FSNA6Q	56.0	RAS-8FSNA6Q	RAS-12FSNA6Q		33
22 HP	RAS-22FSNA6Q	61.5	RAS-8FSNA6Q	RAS-14FSNA6Q		36
24 HP	RAS-24FSNA6Q	69.0	RAS-10FSNA6Q	RAS-14FSNA6Q		40
26 HP	RAS-26FSNA6Q	73.0	RAS-12 FSNA6Q	RAS-14FSNA6Q		43
28 HP	RAS-28FSNA6Q	80.0	RAS-14FSNA6Q	RAS-14FSNA6Q		47
30 HP	RAS-30FSNA6Q	85.0	RAS-14FSNA6Q	RAS-16FSNA6Q		50
32 HP	RAS-32FSNA6Q	90.0	RAS-16FSNA6Q	RAS-16FSNA6Q		53
34 HP	RAS-34FSNA6Q	95.0	RAS-16 FSNA6Q	RAS-18FSNA6Q		56
36 HP	RAS-36FSNA6Q	100.0	RAS-18FSNA6Q	RAS-18FSNA6Q		59
38 HP	RAS-38FSNA6Q	109.0	RAS-12FSNA6Q	RAS-12FSNA6Q	RAS-14FSNA6Q	64
40 HP	RAS-40FSNA6Q	112.0	RAS-12FSNA6Q	RAS-12FSNA6Q	RAS-16FSNA6Q	64
42 HP	RAS-42FSNA6Q	118.0	RAS-12FSNA6Q	RAS-12FSNA6Q	RAS-18FSNA6Q	64
44 HP	RAS-44FSNA6Q	125.0	RAS-12FSNA6Q	RAS-14FSNA6Q	RAS-18FSNA6Q	64
46 HP	RAS-46FSNA6Q	132.0	RAS-12FSNA6Q	RAS-16FSNA6Q	RAS-18FSNA6Q	64
48 HP	RAS-48FSNA6Q	136.0	RAS-12FSNA6Q	RAS-18FSNA6Q	RAS-18FSNA6Q	64
50 HP	RAS-50FSNA6Q	140.0	RAS-14FSNA6Q	RAS-18FSNA6Q	RAS-18FSNA6Q	64
52 HP	RAS-52FSNA6Q	145.0	RAS-16FSNA6Q	RAS-18FSNA6Q	RAS-18FSNA6Q	64
54 HP	RAS-54FSNA6Q	150.0	RAS-18FSNA6Q	RAS-18FSNA6Q	RAS-18FSNA6Q	64





38HP/40HP/42HP 44HP/46HP/48HP 50HP/52HP/54HP

Indoor units

Туре	Model	0.8HP	1.0HP	1.3HP	1.5HP	1.8HP	2.0HP	2.3HP	2.5HP	3.0HP	3.3 HP	4.0HP	5.0HP	6.0HP	8.0HP	10HP
In-the-ceiling(Low Static Pressure)	RPI-FSNQL/3Q	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
In-the-ceiling(High Static Pressure)	RPI-FSNQ(H)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Low-Height In-the-ceiling	RPIZ-FSN1Q	•	•	•	•	•	•	•	•							
4-Way Cassette	RCI-FSN1Q		•	•	•	•	•	•	•	•	•	•	•	•		
2-Way Cassette	RCD-FSN2		•		•		•		•	•		•	•			
Ceiling	RPC-FSN2						•		•	•		•	•			
Wall	RPK-FSNSM2		•		•		•		•	•		•				
Floor	RPF-FSN2E		•		•											
Floor Concealed	RPFI-FSN2E		•		•											

In-the-ceiling Type (Low Static Pressure)

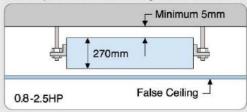




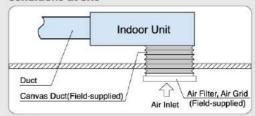
SET FREE-RPI Technique Features

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	50	dB
RPI-10FSN3Q	52	dB

Optional Parts

Drain-up mechanism can be supplied as optional part.





Indoor U	Jnit							1	n-the-cei	ling Type	(Low Sta	tic Press	ure)					
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											AC1¢, 220V/50Hz	AC3Φ,380\	V~415V/50Hz	
		kW	2.3	2.9	3.8	4.4	5.2	5.8	6.5	7.3	8.7	9.3	11.6	14.5	16.5	23.2	28.6	
Nominal Cooling Capacity	(1)	kcal/h	2,000	2,500	3,300	3,800	4,500	5,000	5,600	6,300	7,500	8,000	10,000	12,500	14,200	20,000	24,600	
		Btu/h	7,800	9,900	13,000	15,000	17,700	19,800	22,200	24,900	29,700	31,700	39,600	49,500	56,300	79,200	97,600	
		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	
Nominal Cooling Capacity	(2)	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 Lev (High/Medium/Low)	el	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	
	н	mm	270	270	270	270	270	270	270	270	350	350	350	350	350	470	470	
Outer Dimensions	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	1060	
	D	mm	720	720	720	720	720	720	720	720	800	800	800	800	800	1120	1120	
		kg	26	26	26	26	35	35	35	35	46	46	46	58	58	96	108	
Net Weight		(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 Ri (High/Medium/Low)	ate	m³/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	500	750	
Connections Refriger	ant F	piping							Flare-nut C	onnection(w	ith Flare Nu	ts)						
		mm	Ф6.35	Ф6.35	Ф6.35	Ф6,35	Ф6.35	Ф6.35	Ф9.53	Ф9.53	Ф9.53							
Liquid Line		(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)	
		mm	Ф12.7	Ф12.7	Ф12.7	Ф12.7	Ф15.88	Ф19.05	Ф22.2									
Gas Line		(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	1								VP25(0	Outer Diame	ter Φ32)							
External Static Pressu	ıre	Pa	30	30	30	30	30	30	30	30	60	60	60	60	60	100	100	
Approximate Packin Measurement	ıg	m³	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	0.90	

NOTES:

1. The nominal cooling capacity is based on following 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)
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)

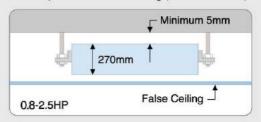




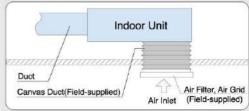
SET FREE-RPI Technique Features

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	50	dB
RPI-10FSNQ	52	dB

Optional Parts

Drain-up mechanism can be supplied as optional



Condensate Drain-up

Higher Fireproof Grade

The models equipped with steel fan and fan casing are also provided to meet UK standard towards higher fireproof grade.

(The models between brackets [] are UK standard type)



Indoor	Uni	t						In-the-	ceiling T	ype(High	Static P	ressure)					
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]													-415V/50H
		kW	2.3	2.9	3.8	4.4	5.2	5.8	6.5	7.3	8.7	9.3	11.6	14.5	16.5	23.2	28.6
Nominal Cooling Capacity	*1)	kcal/h	2,000	2,500	3,300	3,800	4,500	5,000	5,600	6,300	7,500	8,000	10,000	12,500	14,200	20,000	24,600
		Btu/h	7,800	9,900	13,000	15,000	17,700	19,800	22,200	24,900	29,700	31,700	39,600	49,500	56,300	79,200	97,600
		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
Nominal Cooling Capacity	2)	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 Leve (High/Medium/Low)	el	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
	н	mm	270	270	270	270	270	270	270	270	350	350	350	350	350	470	470
Outer Dimensions	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	
2102722-1573		kg	26	26	26	26	35	35	35	35	46	46	46	58	58	85	95
Net Weight		(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 Ra (High/Medium/Low)	ite	m³/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 Pip	ping							Flare	-nut Conne	ection(with F	lare Nuts)					Braz	zing
98300000		mm	Ф6.35	Ф6.35	Ф6.35	Ф6.35	Ф6.35	Ф6.35	Ф9.53	Ф9.53	Ф9.53	Ф9.53	Ф9.53	Ф9.53	Ф9.53	Ф9.53	Ф9.53
Liquid Line		(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)
		mm	Ф12.7	Ф12.7	Ф12.7	Ф12.7	Ф15.88	Ф15.88	Ф15.88	Ф15.88	Ф15.88	Ф15.88	Ф15.88	Ф15.88	Ф15.88	Ф19.05	Ф22.2
Gas Line		(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 Dra	in								VP25(Oute	r Diameter	Ф32)	591 					
External Static Press	ure	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	9	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) *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) 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 datas for the models with steel fan and fan casing. All models with capacity from 3.0 to 10HP are equipped with steel fan and fan casing.

Low-height In-the-ceiling Type

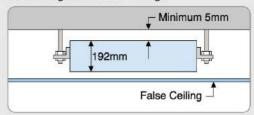




SET FREE-RPIZ Technical Features

Installation Space-saving

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

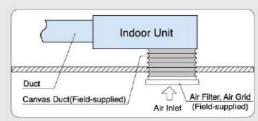


Broad Range of External Static Pressure

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)

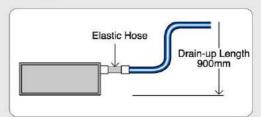
Quiet Operation

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 steel fan and fan casing are also provided to meet UK standard towards higher fireproof grade.

(The models between brackets [] are UK standard type)



Indoor Un	it					Low-height In	n-the-ceiling Typ	е			
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/I	
Power Sup	ply		AC1Φ,220V-240V/50Hz,220V/60Hz,[220V/50Hz]								
Nominal Cooling Capacity '1) kcal/h		2.3	2.9	3.8	4.4	5.2	5.8	6.5	7.3		
		kcal/h	2,000	2,500	3,300	3,800	4,500	5,000	5,600	6,300	
		7,800	9,900	13,000	15,000	17,700	19,800	22,200	24,900		
Nominal Cooling Capacity *2) kcal/h Btu/h		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]	
	н	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	
	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-res	istance)			
Indoor Fan Air Flow Rate (High/Medium/Low)		m³/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 P	iping		Flare-nut Connection(with Flare Nuts)								
		mm	Ф6.35	Ф6.35	Ф6.35	Ф6.35	Ф6.35	Ф6.35	Ф9.53	Ф9.53	
Liquid Line		(in.)	(1/4)	(1/4)	(1/4)	(1/4)	(1/4)	(1/4)	(3/8)	(3/8)	
0 11		mm	Ф12.7	Ф12.7	Ф12.7	Ф12.7	Ф15.88	Ф15.88	Ф15.88	Ф15.88	
Gas Line		(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 P		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 ℃ 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) 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 datas for the models with steel fan and fan casing.

4-Way Cassette Type





SET FREE-RCI Technique Features

Extremely Quiet Operation

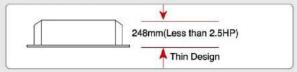
By employing a super-high-stream turbo fan (Three-dimensional twisted wing large bore and high efficiency), the wind flow efficiency has been improved. with the under damping slit mounted near the center of the revolving shaft, the abnormal noise which is unique to DC motors caused by the number of magnetic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

Unified Panel Sizes

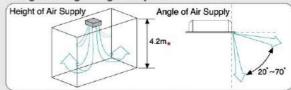
Panel sizes are unified to a 950mm square, neat and elegance, and well harmonized with decoration.

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



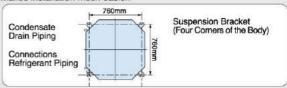
* When indoor unit model is RCI-3.0~6.0FSN1Q. When indoor unit model is RCI-1.0~2.5FSN1Q, the value is 3.5m.

Input power reduced by applying of new developed DC fan motor.

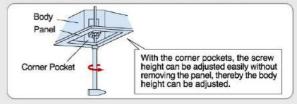
Employed several new technologies such as a ferritic magnetic surfacemounted rotor, centralized winding system and split core system, the motor efficiency is improved in all aspects, smaller and lighter.

Flexible Refrigerant Piping

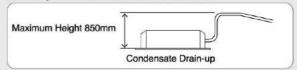
Suspending brackets are at the square corners of the body with pitch size of 760mm. The direction of the body can be changed easily according to the pipe-out opening without change the bolt position which makes installation much easier.



Body height easily adjustable in the corner pocketsA 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 Un	it	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						A	C1Ф,220V~240V	//50Hz,220V/60	Hz				
Nominal Cooling Capacity *1)	kW	2.9	3.8	4.4	5.2	5.8	6.5	7.3	8.7	9.3	11.6	14.5	16.5
	kcal/h	2,500	3,300	3,800	4,500	5,000	5,600	6,300	7,500	8,000	10,000	12,500	14,200
	Btu/h	9,900	13,000	15,000	17,700	19,800	22,200	24,900	29,700	31,700	39,600	49,500	56,300
Nominal Cooling Capacity 2)	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
	mm	248	248	248	248	248	248	248	298	298	298	298	298
Outer Dimensions(H)	(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)
	mm	840	840	840	840	840	840	840	840	840	840	840	840
Outer Dimensions(W)	(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)
	mm	840	840	840	840	840	840	840	840	840	840	840	840
Outer Dimensions(D)	(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	(ind)	AMERIA.		(0.7	1007	4004400000		for Corrosion-n	beautien 1	()	35.16	(,	5-57
Indoor Fan Air Flow Rate	m³/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
(High/Medium/Low) Motor Power	w	56	56	56	56	56	56	56	56	56	108	108	108
Connections Refrigerant		50	50	50	50					50	100	100	100
Piping	-	Flare-nut Connection(with Flare Nuts)											
Liquid Line	mm	Ф6.35	Φ6.35	Ф6.35	Ф6.35	Φ6.35	Ф9.53	Ф9.53	Ф9.53	Ф9.53	Ф9.53	Ф9.53	Ф9.53
	(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	Ф12.7	Ф12.7	Ф12.7	Ф15.88	Ф15.88	Ф15.88	Ф15.88	Ф15.88	Ф15.88	Ф15.88	Ф15.88	Ф15.88
	(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 Approximate Packing							The state of the s	Diameter Φ32)		11/04/10/20			
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							Suspensio						
Panel Model							1000000	3NAQ					
Cabinet Color	2226			2000	1,000	A245	2000	l White		2000		CHANGE NO.	2000
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	m³	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	80.0	0.08

NOTES:

1.The nominal cooling capacity is based on following 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)
Piping Length: 7.5 Meters Piping Lift: 0 Meter

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

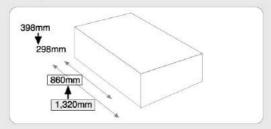




SET FREE-RCD Technique Features

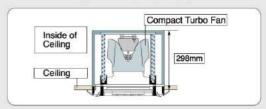
Downsizing and weight reduction simplify handling for easier renewal

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	0FSN2 RCD-1.5FSN2 RCD-2.0FSN2 RCD-2.5FSN2 RCD-3.0FSN2 RC				RCD-4.0FSN2	RCD-5.0FSN2					
Power Supply				AC1	Φ,220V-240V/50Hz,220V/6	30Hz							
Nominal Cooling Capacity *1)	kW	2.9	4.1	5.8	7.3	8.3	11.6	14.5					
	kcal/h	2,500	3,550	5,000	6,300	7,100	10,000	12,500					
	Btu/h	9,900	14,100	19,800	25,000	28,200	39,700	49,600					
Nominal Cooling Capacity*2)	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	35-3	2-30	38-3	4-31	40-36-33	43-40-36					
V 13	mm	298	298	298	298	298	298	298					
Outer Dimensions(H)	(in.)	(11-3/4)	(11-3/4)	(11-3/4)	(11-3/4)	(11-3/4)	(11-3/4)	(11-3/4)					
	mm	860	860	860	860	860	1420	1420					
Outer Dimensions(W)	(in.)	(33-7/8)	(33-7/8)	(33-7/8)	(33-7/8)	(33-7/8)	(55-7/8)	(55-7/8)					
	mm	620	620	620	620	620	620	620					
Outer Dimensions(D)	(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		36.29	R410A(Nitrogen-charged for Corrosion-resistance)										
Indoor Fan Air Flow Rate (High/Medium/Low)	m³/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		in the second		Flare	-nut Connection(with Flare	Nuts)		30,000					
, p. g	mm	Φ6.35	Ф6.35	Φ6.35	Ф9.53	Ф9.53	Ф9.53	Ф9.53					
Liquid Line	(in.)	(1/4)	(1/4)	(1/4)	(3/8)	(3/8)	(3/8)	(3/8)					
	mm	Ф12.7	Ф12.7	Ф15.88	Ф15.88	Ф15.88	Ф15.88	Ф15.88					
Gas Line	(in.)	(1/2)	(1/2)	(5/8)	(5/8)	(5/8)	(5/8)	(5/8)					
Condensate Drain	,				VP25			110,100,40					
Approximate Packing Measurement	m³	0.23	0.23	0.23	0.23	0.23	0.37	0.37					
Panel Model				P-N23DNA		1300	P-N46DNA						
Cabinet Color					Neutral White								
	mm	30	30	30	30	30	30	30					
Outer Dimensions(H)	(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)					
	kg	6	6	6	6	6	8	8					
Net Weight	(lbs)	(13)	(13)	(13)	(13)	(13)	(18)	(18)					
Approximate Packing	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)

*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)
Piping Length: 7.5 Meters Piping Lift: 0 Meter

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.

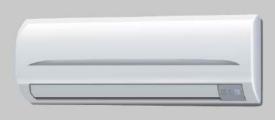
increases by about 1dB.

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









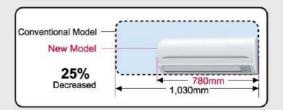
SET FREE-RPK Technique Features

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)	
1.0,1.5	10	
2.0	12	Ì
2.5-4.0	18	

Stylish Design and Easy Maintence

The unit has been design with a flat front panel and a slim body. The front panel is easy to clean and should remain relatively dust free.

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-1.0FSNSM2	RPK-1.5FSNSM2	RPK-2.0FSNSM2	RPK-2.5FSNSM2	RPK-3.0FSNSM2	RPK-4.0FSNSM
Power Supply				AC1Φ,220V~240	0V/50Hz.220V/60Hz		
	kW	2.9	4.1	5.8	7.3	8.3	11.6
Nominal Cooling Capacity *1)	kcal/h	2,500	3,550	5,000	6,300	7,100	10,000
	Btu/h	9,900	14,100	19,800	25,000	28,200	39,700
	kW	2.8	4.0	5.6	7.1	8.0	11.2
Nominal Cooling Capacity 2)	kcal/h	2,400	3,400	4,800	6,100	6,900	9,600
	Btu/h	9,600	13,600	19,100	24,200	27,300	38,200
Sound Pressure Level (High/Medium/Low)	dB(A)	38-36-34	40-38-36	41-39-37	43-40-37	43-40-37	49-46-43
Cabinet Color				W	nite		
	mm	280	280	295	333	333	333
Outer Dimensions(H)	(in.)	(11-1/42)	(11-1/42)	(11-13/21)	(13-1/9)	(13-1/9)	(13-1/9)
	mm	780	780	1030	1150	1150	1150
Outer Dimensions(W)	(in.)	(30-5/7)	(30-5/7)	(40-5/9)	(45-5/18)	(45-5/18)	(45-5/18)
	mm	210	210	208	245	245	245
Outer Dimensions(D)	(in.)	(8-1/4)	(8-1/4)	(8-1/4)	(9-2/3)	(9-2/3)	(9-2/3)
22772227777	kg	10	10	12	18	18	18
Net Weight	(lbs)	(22)	(22)	(26.4)	(39.6)	(39.6)	(39.6)
Refrigerant				R410A(Nitrogen-charged	for Corrosion-resistance	e)	
Indoor Fan Air Flow Rate	m³/min	10/8/7	11/10/9	14/12/10	17/16/14	17/16/14	22/20/17
(Cooling/Heating)	(cfm)	(353/283/247)	(388/353/318)	(494/424/353)	(600/565/494)	(600/565/494)	(777/706/600)
Motor Power	w	20	20	30	30	30	30
Connections Refrigerant Piping				Flare-nut Connecti	on(with Flare Nuts)		
74777	mm	Ф6.35	Φ6.35	Ф6.35	Ф9.53	Ф9.53	Ф9.53
Liquid Line	(in.)	(1/4)	(1/4)	(1/4)	(3/8)	(3/8)	(3/8)
01	mm	Ф12.7	Ф12.7	Ф15.88 ог Ф12.7	Ф15.88	Ф15.88	Ф15.88
Gas Line	(in.)	(1/2)	(1/2)	(5/8) or (1/2)	(5/8)	(5/8)	(5/8)
Condensate Drain		VP16	VP16	VP16	VP16	VP16	VP16
Approximate Packing Measurement	m³	0.07	0.07	0.11	0.13	0.13	0.13
Standard Accessories				Wall Mount	ing Bracket		

NOTES:

1. The nominal cooling capacity is based on following 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) 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.

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

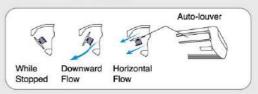
The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.



SET FREE-RPC Technique Features

Amenity improved by auto-louver at air opening

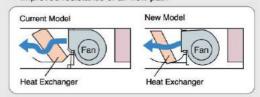
The round, lower part of the air opening complements the gentle, quite operation. The auto-louver in the upper part of the opening automatically controls upward and downward motion of air flow, while the grille serves as a shutter when stopped.



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.

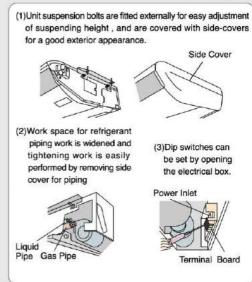
• Improved resistance of air-flow path



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





Indoor Unit				Ceiling Type				
Model		RPC-2.0FSN2	RPC-2.5FSN2	RPC-3.0FSN2	RPC-4.0FSN2	RPC-5.0FSN2		
Power Supply			AC1Φ,	,220V~240V/50Hz,220V/60Hz				
	kW	5.8	7.3	8.3	11.6	14.5		
lominal Cooling Capacity *1)	kcal/h	5,000	6,300	7,100	10,000	12,500		
	Btu/h	19,800	25,000	28,200	39,700	49,600		
	kW	5.6	7.1	8.0	11.2	14.0		
ominal Cooling Capacity *2)	kcal/h	4,800	6,100	6,900	9,600	12,000		
	Btu/h	19,100	24,200	27,300	38,200	47,800		
Sound Pressure Level (High/Medium/Low)	dB(A)	40-37-34	40-37-34	43-40-37	44-41-38	44-41-38		
Cabinet Color				Silky White				
	mm	210	210	210	270	270		
Outer Dimensions(H)	(in.)	(8-1/4)	(8-1/4)	(8-1/4)	(10-5/8)	(10-5/8)		
Section and the section	mm	1100	1320	1320	1320	1580		
Outer Dimensions(W)	(in.)	(43-5/16)	(51-15/16)	(51-15/16)	(51-15/16)	(62-3/16)		
	mm	670	670	670	670	670		
Outer Dimensions(D)	(in.)	(26-3/8)	(26-3/8)	(26-3/8)	(26-3/8)	(26-3/8)		
25 2021/3/201	kg	26	30	30	34	42		
Net Weight	(lbs)	(57)	(66)	(66)	(75)	(93)		
Refrigerant			R410A(Nitroge	n-charged for Corrosion-res	sistance)			
ndoor Fan Air Flow Rate	m³/min	14/12/10	18/15/12	18/15/12	25/21/18	33/28/23		
(High/Medium/Low)	(cfm)	(494/424/353)	(636/530/424)	(636/530/424)	(883/742/636)	(1165/989/812)		
Motor Power	w	35	50	50	95	135		
Connections Refrigerant Piping			Flare-n	ut Connection(with Flare Nu	uts)			
	mm	Ф6.35	Ф9.53	Ф9.53	Ф9.53	Ф9.53		
Liquid Line	(in.)	(1/4)	(3/8)	(3/8)	(3/8)	(3/8)		
0230 M20	mm	Ф15.88	Ф15.88	Ф15.88	Ф15.88	Ф15.88		
Gas Line	(in.)	(5/8)	(5/8)	(5/8)	(5/8)	(5/8)		
Condensate Drain		VP20	VP20	VP20	VP20	VP20		
Approximate Packing Measurement	m³	0.3	0.36	0.36	0.43	0.5		
Standard Access	sories			Wall Mounting Bracket	As week as			

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

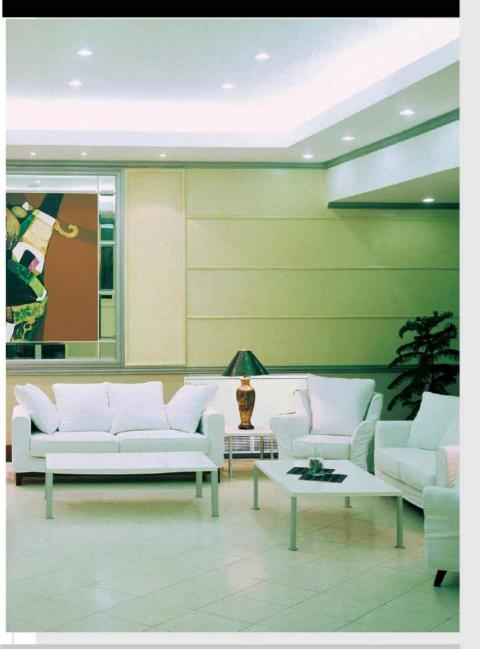
Voltage of the power source for the indoor fan motor is 220V.

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.



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 depthSlim 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		Floo	гТуре	Floor Conce	ealed Type	
Model		RPF-1.0FSN2E	RPF-1.5FSN2E	RPFI-1.0FSN2E	RPFI-1.5FSN2E	
Power Supply		AC1Ф,220V~246	0V/50Hz,220V/60Hz	AC1Φ,220V~2	240V/50Hz,220V/60Hz	
	kW	2.9	4.1	2.9	4.1	
Nominal Cooling Capacity 1)	kcal/h	2,500	3,500	2,500	3,550	
	Btu/h	9,900	14,000	9,900	14,100	
	kW	2.8	4.0	2.8	4.0	
lominal Cooling Capacity*2)	kcal/h	2,400	3,400	2,400	3,400	
	Btu/h	9,600	13,700	9,600	13,600	
Sound Pressure Level (High/Medium/Low)	dB(A)	35-32-29	38-35-31	35-32-29	38-35-31	
Cabinet Color		Silky White		÷	1 	
	mm	630	630	620	620	
Outer Dimensions(H)	(in.)	(24-13/16)	(24-13/16)	(24-7/16)	(24-7/16)	
	mm	1045	1170	848	973	
Outer Dimensions(W)	(in.)	(41-1/8)	(46-1/16)	(33-3/8)	(38-5/16)	
2000 PER 12 8240	mm	220	220	220	220	
Outer Dimensions(D)	(in.)	(8-11/16)	(8-11/16)	(8-11/16)	(8-11/16)	
	kg	25	28	19	23	
Net Weight	(lbs)	(55)	(62)	(42)	(51)	
Refrigerant		R4 (Nitrogen-charged fo	110A or Corrosion-resistance)	R410A(Nitrogen-charged	for Corrosion-resistance	
Indoor Fan Air Flow Rate	m³/min	8.5/7/6	12/10/9	8.5/7/6	12/10/9	
(High/Medium/Low)	(cfm)	(300/247/212)	(424/353/318)	(300/247/212)	(424/353/318)	
Motor Power	w	20	28	20	28	
Connections Refrigerant Piping		Flare-nut Connec	ction(with Flare Nuts)	Flare-nut Connection	n(with Flare Nuts)	
	mm	Ф6.35	Ф6.35	Φ6.35	Ф6.35	
Liquid Line	(in.)	(1/4)	(1/4)	(1/4)	(1/4)	
011	mm	Ф12.7	Ф12.7	Ф12.7	Ф12,7	
Gas Line	(in.)	(1/2)	(1/2)	(1/2)	(1/2)	
Condensate Drain		18.5OD	18.5OD	VP25	VP25	
Approximate Packing Measurement	m³	0.26	0.29	0.20	0.23	

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

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.

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.



Outdoor Units Parameter

Model		RAS-8FSNA6Q	RAS-10FSNA6Q	RAS-12FSNA6Q	RAS-14 FSNA6Q
Combination		-	-	36	_
Power Supply			AC 3Ф,380V ~ 4	115V/50Hz,380V/60Hz	
Nominal Cooling Capacity	kW	22.4	28.0	33.5	40.0
Sound Pressure Level	dB	58	58	60	62
Cabinet Color			lvory	White	
Outer Dimensions(H×W×D)	mm		1720×950×765		1720×1210×765
Net Weight	kg	208	210	212	295
Refrigerant Category	7: 1		10A	7/	
Refrigerant Flow Control					
Compressor Model		E656DHD	E656DHD	E656DHD	E656DHD+E655DH
Compressor Quantity		1	1	1	1+1
Compressor Output(Pole)	kW	4.8(4)	6.0(4)	7.2(4)	4.8(4)+4.4(2)
Heat Exchanger			Multi-pass Cro	ss-finned Tube	
Condenser Fan Quantity		1	1	1	1
Air Flow Rate	m³/min	155	170	175	195
Motor Output(Pole)	kW	0.33(8)	0.44(8)	0.49(8)	0.66(8)
Refrigerant Piping			Flare-nut Connecti	on(With Flare Nuts)	
Liquid Line	mm	Φ9.53	Φ9.53	Ф12.7	Ф12.7
Gas Line	mm	Ф19.05	Ф22.2	Ф25.4	Ф25.4
Refrigerant Charge	kg	6.5	6.5	8.0	9.0
Holes For Power Supply Wiring	mm	Φ52	Ф52	Ф52	Φ52
Holes For Control Line Wiring	mm	Ф26	Ф26	Ф26	Ф26
Approximate Packing Measurement	m ³	1.57	1.57	1.57	1.97

Model		RAS-16FSNA6Q	RAS-18FSNA6Q	RAS-20FSNA6Q	RAS-22 FSNA6Q		
Combination		2	=	RAS-8FSNA6Q RAS-12FSNA6Q	RAS-8FSNA6Q RAS-14FSNA6Q		
Power Supply			AC 3Φ,380V ~41	5V/50Hz,380V/60Hz			
Nominal Cooling Capacity	kW	45.0	50.0	56.0	61.5		
Sound Pressure Level	dB	62	63	62	63		
Cabinet Color			lvor	y White			
Outer Dimensions(H×W×D)	mm	1720×1	210×765	(1720×950×765) + (1720×950×765)	(1720×950×765)+ (1720×1210×765)		
Net Weight	kg	310	315	420	503		
Refrigerant Category			R	110A			
Refrigerant Flow Control			Micro-computer Cont	ntrol Expansion Valve			
Compressor Model		E656DHD+E655DH	E656DHD+E855DH	E656DHD+E656DHD	E656DHD+E656DHD+E655		
Compressor Quantity		1+1	1+1	1+1	1+1+1		
Compressor Output(Pole)	kW	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)		
Heat Exchanger			Multi-pass Cros	oss-finned Tube			
Condenser Fan Quantity		1	1	2	2		
Air Flow Rate	m³/min	195	195	330	350		
Motor Output(Pole)	kW	0.66(8)	0.66(8)	0.33(8)+0.49(8)	0.33(8)+0.66(8)		
Refrigerant Piping			Flare-nut Connection	on(With Flare Nuts)			
Liquid Line	mm	Ф12.7	Φ15.88	Φ15.88	Ф15.88		
Gas Line	mm	Ф28.6	Ф28.6	Ф28.6	Ф28.6		
Refrigerant Charge	kg	10.5	10.5	14.5	15.5		
Holes For Power Supply Wiring	mm	Ф52	Ф52	Ф52	Φ52		
Holes For Control Line Wiring	mm	Ф26	Ф26	Ф26	Ф26		
Approximate Packing Measurement	m ³	1.97	1.97		-		



Model		RAS-24FSNA6Q	RAS-26FSNA6Q	RAS-28 FSNA6Q	RAS-30FSNA6Q		
Combination		RAS-10FSNA6Q RAS-14FSNA6Q	RAS-12FSNA6Q RAS-14FSNA6Q	RAS-14FSNA6Q RAS-14FSNA6Q	RAS-14FSNA6Q RAS-16FSNA6Q		
Power Supply			AC 3Φ,380V ~415V	//50Hz,380V/60Hz			
Nominal Cooling Capacity	kW	69.0	73.0	80.0	85.0		
Sound Pressure Level	dB	63	64	65	65		
Cabinet Color			lvory	White			
Outer Dimensions(H×W×D)	mm	(1720 × 950 × 765)	+ (1720×1210×765)	(1720 × 1210 × 765	5) + (1720×1210×765)		
Net Weight	kg	505	507	590	605		
Refrigerant Category			R41	0A			
Refrigerant Flow Control		Micro-computer Control Expansion Valve					
Compressor Model		E656DHD+E656DHD+E655 DH	E656DHD+E656DHD+E655 DH	E656DHD+E655DH+E656D HD+E655DH	E656DHD+E655DH+E656 HD+E655DH		
Compressor Quantity		1+1+1	1+1+1	1+1+1+1	1+1+1+1		
Compressor Output(Pole)	kW	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			
Condenser Fan Quantity		2	2	2	2		
Air Flow Rate	m³/min	365	370	390	390		
Motor Output(Pole)	kW	0.44(8)+0.66(8)	0.49(8)+0.66(8)	0.66(8)+0.66(8)	0.66(8)+0.66(8)		
Refrigerant Piping		323	Flare-nut Connection	(With Flare Nuts)			
Liquid Line	mm	Ф15.88	Ф19.05	Ф19.05	Ф19.05		
Gas Line	mm	Ф28.6	Ф31.75	Ф31.75	Ф31.75		
Refrigerant Charge	kg	15.5	17.0	18.0	19.5		
Holes For Power Supply Wiring	mm	Ф52	Ф52	Ф52	Ф52		
Holes For Control Line Wiring	mm	Ф26	Ф26	Ф26	Ф26		
Approximate Packing Measurement	m ³	- /-	-	-	-		

Model	Model		RAS-34FSNA6Q	RAS-36FSNA6Q	RAS-38FSNA6Q
Combination		RAS-16FSNA6Q RAS-16FSNA6Q	RAS-16FSNA6Q RAS-18FSNA6Q	RAS-18FSNA6Q RAS-18FSNA6Q	RAS-12FSNA6Q RAS-12FSNA6Q RAS-14FSNA6Q
Power Supply			AC 3Φ,380V ~415	//50Hz,380V/60Hz	
Nominal Cooling Capacity	kW	90.0	95.0	100.0	109.0
Sound Pressure Level	dB	65	66	66	66
Cabinet Color		77.00	lvory	White	
Outer Dimensions(H×W×D)	mm	(1720	(1720 × 950 × 765) + (1720 × 950 × 765) + (1720 × 1210 × 765		
Net Weight	kg	620 625		630	719
Refrigerant Category		li .			
Refrigerant Flow Control			ol Expansion Valve		
Compressor Model		E656DHD+E655DH+E656D HD+E655DH	E656DHD+E655DH+E656D HD+E855DH	E656DHD+E855DH+E656D HD+E855DH	E656DHD+E656DHD+E656 DHD+E655DH
Compressor Quantity		1+1+1+1	1+1+1+1	1+1+1+1	1+1+1+1
Compressor Output(Pole)	kW	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)
Heat Exchanger			Multi-pass Cross	-finned Tube	
Condenser Fan Quantity		2	2	2	3
Air Flow Rate	m³/min	390	390	390	545
Motor Output(Pole)	kW	0.66(8)+0.66(8)	0.66(8)+0.66(8)	0.66(8)+0.66(8)	0.49(8)+0.49(8)+0.66(8)
Refrigerant Piping			Flare-nut Connection	(With Flare Nuts)	
Liquid Line	mm	Ф19.05	Ф19.05	Ф19.05	Ф19.05
Gas Line	mm	Ф31.75	Ф31.75	Ф38.1	Ф38.1
Refrigerant Charge	kg	21.0	21.0	21.0	25.0
Holes For Power Supply Wiring	mm	Ф52	Φ52	Ф52	Φ52
Holes For Control Line Wiring	mm	Ф26	Φ26	Ф26	Ф26
Approximate Packing Measurement	m ³	_	_	_	_



Outdoor Units Parameter

Model		RAS-40FSNA6Q	RAS-42FSNA6Q	RAS-44FSNA6Q	RAS-46FSNA6Q		
Combination		RAS-12FSNA6Q RAS-12FSNA6Q RAS-16FSNA6Q	RAS-12FSNA6Q RAS-12FSNA6Q RAS-18FSNA6Q	RAS-12FSNA6Q RAS-14FSNA6Q RAS-18FSNA6Q	RAS-12FSNA6Q RAS-16FSNA6Q RAS-18FSNA6Q		
Power Supply			AC 3Φ,380V ~415	//50Hz,380V/60Hz			
Nominal Cooling Capacity	kW	112.0	118.0	125.0	132.0		
Sound Pressure Level	dB	66	66	67	67		
Cabinet Color			Ivory	White			
Outer Dimensions(H×W×D)	mm	(1720 × 950 × 765) + (1720 × 9	950 × 765) + (1720×1210×765)	(1720×950×765) + (1720×12	210×765) + (1720×1210×765		
Net Weight	kg	734	739	822	837		
Refrigerant Category			R41	0A	0A		
Refrigerant Flow Control		Micro-computer Control Expansion Valve					
Compressor Model		E656DHD+E656DHD+E656 DHD+E655DH	E656DHD+E656DHD+E656 DHD+E855DH	E656DHD+E656DHD+E655 DH+E656DHD+E855DH	E656DHD+E656DHD+E65 DH+E656DHD+E855DH		
Compressor Quantity		1+1+1+1	1+1+1+1	1+1+1+1	1+1+1+1+1		
Compressor Output(Pole)	kW	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)		
Heat Exchanger			Multi-pass Cross	-finned Tube			
Condenser Fan Quantity		3	3	3	3		
Air Flow Rate	m³/min	545	545	565	565		
Motor Output(Pole)	kW	0.49(8)+0.49(8)+0.66(8)	0.49(8)+0.49(8)+0.66(8)	0.49(8)+0.66(8)+0.66(8)	0.49(8)+0.66(8)+0.66(8)		
Refrigerant Piping			Flare-nut Connection	(With Flare Nuts)			
Liquid Line	mm	Ф19.05	Ф19.05	Ф19.05	Ф19.05		
Gas Line	mm	Φ38.1	Ф38.1	Ф38.1	Ф38.1		
Refrigerant Charge	kg	26.5	26.5	27.5	29.0		
Holes For Power Supply Wiring	mm	Ф52	Ф52	Ф52	Ф52		
Holes For Control Line Wiring	mm	Ф26	Ф26	Ф26	Ф26		
Approximate Packing Measurement	m ³		123	_	_		

Model		RAS-48 FSNA6Q	RAS-50 FSNA6Q	RAS-52FSNA6Q	RAS-54 FSNA6Q
Combination		RAS-12 FSNA6Q RAS-18 FSNA6Q RAS-18 FSNA6Q	RAS-14 FSNA6Q RAS-18 FSNA6Q RAS-18 FSNA6Q	RAS-16 FSNA6Q RAS-18 FSNA6Q RAS-18 FSNA6Q	RAS-18 FSNA6Q RAS-18 FSNA6Q RAS-18 FSNA6Q
Power Supply			AC 3Φ,380V ~415	//50Hz,380V/60Hz	
Nominal Cooling Capacity	kW	136.0	140.0	145.0	150.0
Sound Pressure Level	dB	67	67	67	68
Cabinet Color			lvory	White	
Outer Dimensions(H×W×D)	mm	(1720×950×765)+(1720× 1210×765)+(1720×1210×765)	(1720×1210)	(765) + (1720×1210×765)	+ (1720×1210×765)
Net Weight	kg	842	925	940	945
Refrigerant Category			R4°	0A	
Refrigerant Flow Control					
Compressor Model		E656DHD+E656DHD+E855 DH+E656DHD+E855DH	E656DHD+E655DH+E656D HD+E855DH+E656DHD+E8 55DH	E656DHD+E655DH+E656D HD+E855DH+E656DHD+E8 55DH	E656DHD+E855DH+E656D HD+E855DH+E656DHD+E 55DH
Compressor Quantity		1+1+1+1+1	1+1+1+1+1	1+1+1+1+1	1+1+1+1+1+1
Compressor Output(Pole)	kW	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) 6.0(4)+5.6(2)
Heat Exchanger			Multi-pass Cross	-finned Tube	
Condenser Fan Quantity		3	3	3	3
Air Flow Rate	m³/min	565	585	585	585
Motor Output(Pole)	kW	0.49(8)+0.66(8)+0.66(8)	0.66(8)+0.66(8)+0.66(8)	0.66(8)+0.66(8)+0.66(8)	0.66(8)+0.66(8)+0.66(8)
Refrigerant Piping			Flare-nut Connection	(With Flare Nuts)	
Liquid Line	mm	Ф19.05	Ф19.05	Ф19.05	Ф19.05
Gas Line	mm	Ф38.1	Ф38.1	Ф38.1	Ф38.1
Refrigerant Charge	kg	29.0	30.0	31.5	31.5
Holes For Power Supply Wiring	mm	Ф52	Ф52	Ф52	Ф52
Holes For Control Line Wiring	mm	Ф26	Ф26	Ф26	Ф26
Approximate Packing Measurement	m ³	_	_		_

NOTES: 1.The nominal cooling capacity is based on following 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: 36°C DB(85°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 Meters 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.

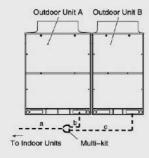


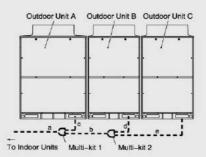
First Multi-kit

Outdoor Unit HP	8 and 10	12 to 16	18 to 24	26 to 54
Multi-kit	E-102SN	E-162SN	E-242SN	E-302SN

Piping Connection Kit (for combined system)

Outdoor Unit	RAS-20~ 24FSNA6Q	RAS-26~36FSNA6Q	RAS-38~ 42FSNA6Q	RAS-44 ~ 54FSNA6Q
Multi-kit 1			M-30SNQ	M-30SNQ
Multi-kit 2	M-20SNQ	M-30SNQ	M-20SNQ	M-30SNQ





First Multi-kit ~ Last Multi-kit

Total Indoor Unit HP	Lower than 6	6 to 8.99	9 to 11.99	12 to 15.99	16 to 17.99	18 to 25.99	26 to 35.99	Over 3
Gas (Φmm)	Ф15.88	Ф19.05	Ф22.2	Ф25.4	Ф28.6	Ф28.6	Ф31.75	Ф38.1
Liquid(Φmm)	Ф9.53	Ф9.53	Ф9.53	Ф12.7	Ф12.7	Ф15.88	Ф19.05	Ф19.0
Multi-kit		E-102SN		E-16	S2SN	E-242SN	E-30	2SN

Last Multi-kit ~ Indoor Unit

Indoor Unit	Pipe Size	Max. Liquid Pipe Lengt			
mader orne	Gas Pipe	Liquid Pipe	wax. Equid Fipe Length		
0.8HP-1.5HP	12.7	6.35	15		
1.8HP~2.0HP	15.88	6.35*	15		
2.3HP~6.0HP	15.88	9.53	40		
8HP	19.05	9.53	40		
10HP	22.2	9.53	40		

NOTES:

^{1.} When liquid pipe length of indoor unit(0.8~2.0HP) is more than 15m, please change the liquid pipe dimension from Φ 6.35 into Φ 9.53.



All Fresh Air Indoor Unit

Create comfortable and healthy indoor environment

Create a comfortable and healthy indoor environment by introducing fresh outdoor air. By cooling fresh outdoor air to almost the same temperature as room temperature, fresh ambient air can be adapted and then introduced into indoor room. Besides, after filtered, fresh outdoor air in transition seasons can be drawn to indoor room directly with no need of heating or cooling operation. While fresh outdoor air is introduced, other indoor units don't bear fresh air load.

Advanced control

Can be interfaced to H-LINKII system. easy electrical wiring design and installation.

Flexible line-up to set-free series

All fresh air indoor unit is applicable to SET-FREE outdoor units. both SET-FREE indoor units and all fresh air indoor unit can be used in SET-FREE system.

Higher external static pressure

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

General Data for All Fresh Air Indoor Unit

Model			RPI-5.0	KFNQ		RPI-8.0KFNQ		RPI-10.0KFNQ						
Power Supply			AC1φ,220V/50Hz	AC1 φ,240V/50Hz	AС1 ф,220V/50Hz	AC1 φ,240V/50Hz	AC1 φ,220V/60Hz	AC1Φ,220V/50Hz	AC1φ,240V/50Hz	AC1Φ,220V/60I				
Combined Outdoor Unit Model			SET-FREE FSNA6Q Series											
Cooling Capacity		kW	14	1.0		22.4		28.0						
Cooling Powe	er Input	kW	0.30	0.31	0.48	0.50	0.60	0.50	0.58	0.70				
Nominal Coc Current	oling	А	1.4	1.3 2.2 2.1 2.7 2.3 2.4		2.4	3.2							
Outer Dimensions	Н	mm	3	70		486		486						
	w	mm	1,5	320		1,270		1,270						
	D	mm	86	00		1,069		1,069						
Sound Pressure Level (Overall A Scale)		dB	4	12		44		45						
Net Weight		kg	6	60		97		97						
Refrigerant						R410A								
Indoor Fan A Flow Rate	Air	m³/min	1	8		28		35						
External Static Pressure		Pa	20	00		220		220						
Drain Piping	Size				VP2	VP25,Outer Diameter:φ32mm								
Refrigerant I Line Size	Liquid	mm	Ф	9.53		Ф9.53		Ф9.53						
Refrigerant Gas Line Size mm			Ф1	5.88		Ф19.05		Ф22.2						
Temperature of Fresh Air				Cooling:20°C~43°C										

NOTES:

- The nominal cooling capacity is based on following conditions: 33°C DB ,28°C WB, piping length: 7.5m,piping lift:0m
- The sound pressure level is based on following conditions: 1.5 Meter beneath the unit The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.
- An air filter with dust collection efficiency more than 50% needs to be attached to the duct system of the suction side at site.
- 4. When the resistance of the field-supplied duct is small, it may cause abnormal stoppage, malfunction, spraying water, etc. due to excessive air flow. And the duct, which is to be connected to this unit, shall be insulated for dew protection.
- All fresh air indoor unit is for processing fresh air load and not for stabilizing the room temperature. For adjusting the air conditioning load of the room, the additional air conditioner is required.
- This unit shall be connected to SET-FREE outdoor unit. In case of connecting this unit with other indoor units in the same refrigerant cycle, calculate the capacity of this unit as 21.0kW(5HP), 33.6kW(8HP), 42.0kW(10HP).
- When SET-FREE outdoor unit connected only with all fresh air indoor unit, the configuration rate is 100% (Recommended).
- Under cooling mode, when outdoor temperature is lower than 20°C, the system will automatically shift to ventilation operation.



General Data for All Fresh Air Indoor Unit

Model		RPI-12	.0KFNQ	RPI-16.0KFNQL		RPI-16.0KFNQH		RPI-20.0KFNQL		RPI-20.0KFNQH		RPI-20.0KFNQLF		RPI-20.0KFNQHF			
Power Supp	ly		AC3Ф AC3Ф AC3Ф AC3Ф AC3Ф AC3Ф AC3Ф AC3Ф		АСЗФ 415V/50Hz	АСЗФ 380V/50Hz	АСЗФ 415V/50Hz	АСЗФ 380V/50Hz	АСЗФ 415V/50Hz	АСЗФ 380V/50Hz	АСЗФ 415V/50Hz	АСЗФ 380V/50Hz	АСЗФ 415V/50Hz				
Combined Outdoor Unit Model			RAS-12FSNA6Q RAS-16FSNA6Q		RAS-16FSNA6Q		RAS-20FSNA6Q		RAS-20FSNA6Q		RAS-20FSNA6Q		RAS-20FSNA6Q				
Cooling Capacity		kW	30	3.5	45.0		45.0		56.0		56.0		56.0		56.0		
Cooling Powe	r Input	kW	0.68	0.72	0.73	0.79	1.05	1.08	1.07	1.10	1.25	1.24	1.27	1.34	1.52 1.56		
Nominal Cod Current	oling	Α	1.43	1.45	1.39	1.63	1.88	1.83	1.90	1.86	2.41	2.40	2.51	2.59	2.92	2.95	
	н	mm	4	486 635		35	635		735		735		735		735		
Outer Dimensions	w	mm	1,2	270	1,950		1,950		1,950		1,950		1,950		1,950		
	D	mm	1,0	069	8	05	805		805		805		805		805		
Sound Pressure Level		dB(A)	5	55		57		60		59		63		61		65	
Net Weight		kg	9	7	196		196		222		222		222		222		
Refrigerant									R41	0 A							
Indoor Fan Air Flow Rate		m³/h	30	000	4000		4000		5000		5000		6000		6000		
External Static Pressure		Pa	2	20	200		300		200		320		200		300		
Air Inlet Size		mm 1,100 x 415 1,522 x 522 1,522 x 522 1,522 x 622 1,522		x 622	1,522 x 622		1,522 x 622										
Air Outlet Siz	e.	mm	1,106	x 338	850	0 x 272		272	850 x 272 850 x 272		x 272	850	x 272	850 x 272			
Drain Piping	Drain Piping Size VP25 RC1(Internal Screw)																
Refrigerant Liquid Line Size		mm	Ф1	2.7	Ф1	2.7	Ф12.7		Ф15.88		Ф15.88		Ф15.88		ф15.88		
Refrigerant Gas Line Size		mm	Ф2	25.4	Φ2	25.4	Ф2	5.4	Ф2	Ф28.6		Ф28.6		Ф28.6		Ф28.6	
Temperature of Fresh Air I							С	ooling:20	°C~43°C		du .						

NOTES

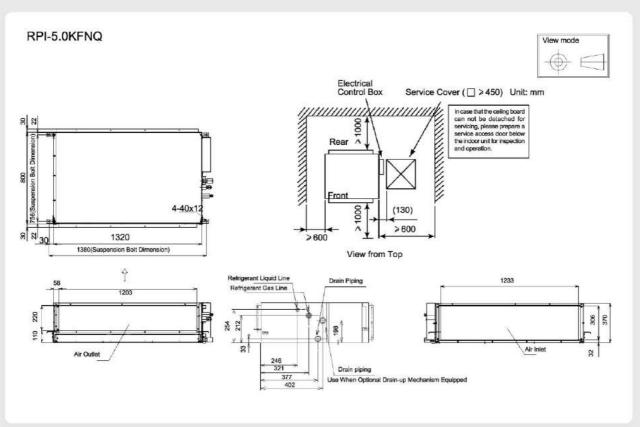
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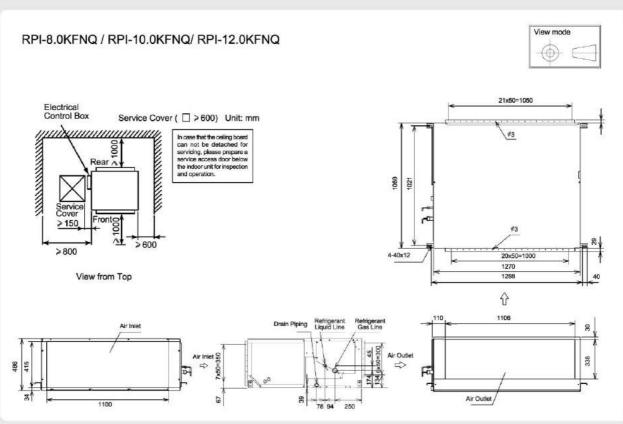
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Dimensional Data

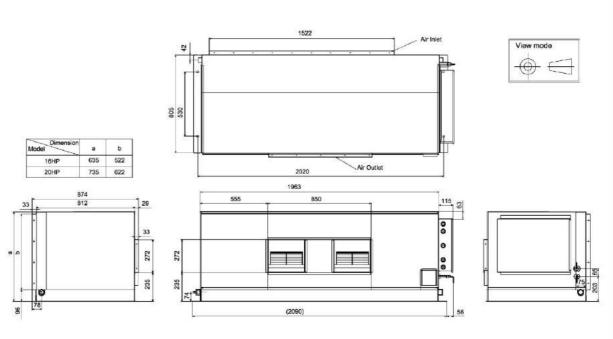




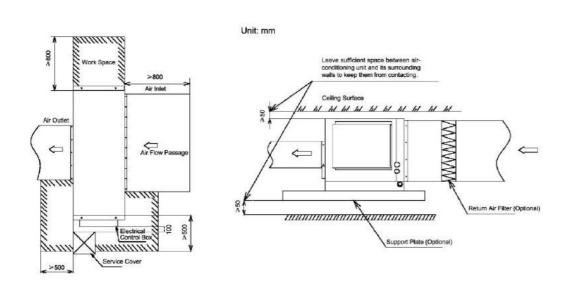


Dimensional Data

RPI-16.0KFNQL、RPI-16.0KFNQH、RPI-20.0KFNQL RPI-20.0KFNQH、RPI-20.0KFNQLF、RPI-20.0KFNQHF



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