

HITACHI
Inspire the Next



Inverter-Driven Multi-Split
Heat Pump Central Air Conditioning System

A Symbol of High Quality Lifestyle

HITACHI

 **Hitachi Appliances, Inc.**

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

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HHEIVXMN 110B



ISO9001
00606E10300ROM



ISO14001
00605Q11494ROM

R410A
Zero Global Warming Potential

Hitachi proudly introduces "DC Inverter IVX mini" series, a new highly-efficient and reliable air conditioning system. The combination of the scroll compressor and the inverter provides the best air conditioning for shops, houses and small office buildings.



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- 01 Features
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- 09 Indoor Units General Data

I The Leading Technology

IVX mini inverter-driven multi-split air conditioning system, as the representative of the Hitachi leading technology, adopts a unique rare earth permanent synchronous motor and asymmetric scroll discs to ensure more stable and reliable system operation.



01 The Hitachi Patented High Efficiency Scroll Compressor

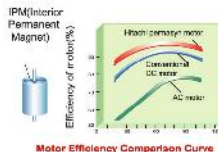
In 1983, Hitachi invented the first air conditioning scroll compressor in the world and owned the patent. More than 20 years' professional experience in development and manufacturing of scroll compressor ensures more advanced technology, higher quality and stronger reliability.

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.



A Unique Rare Earth Permanent Magnet Synchronous Motor

Hitachi rare earth permanent magnet synchronous motor is a cluster-type motor. The efficiency is largely increased at low-frequency and medium-frequency operation. Motor efficiency is further improved by adopting IPM technology to increase the torque by 20%, which makes the motor more energy-saving than AC motor and conventional motors.



02 The Hitachi Patented Precise Inverter Technology

Precise Control with the Wide Range Inverter

The compressor speed is controlled within a wide range from 20Hz to 115Hz. Therefore, smooth operation is available without frequently using the ON/OFF control. This new wide range capacity control can meet not only the needs of a wide space but also a small space such as guest rooms and management rooms. Defrosting operation can be quickly performed because of a high compressor speed.

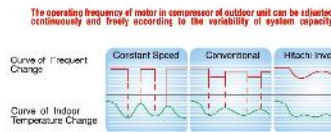


DIP-IPM Inverter

DIP-IPM, which consists of IGBT, Auto-Protection and Silencer, embeds electronic interference filter and auto-protection device to completely reduce noise level.

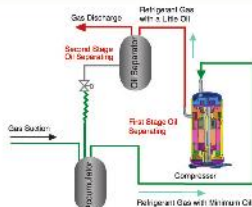


The operating speed of DC motor in compressor can be adjusted continuously and freely relating to the variability of system capacity and accurately with 1Hz increments. This technique combining with auto-adaptive control technique automatically adjusts capacity output according to actual air conditioning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



03 The Originated 2-stages Oil Separating Technique

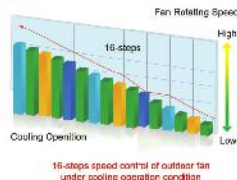
IXX mini adopts Hitachi proprietary compressor which has high efficient function on oil separating to conduct the first stage oil separating. Meanwhile, the system has an oil separator as the second stage oil separating which ensure reliability of the system.



04 16-Steps Fan Speed Control of Outdoor Unit

The fan speed of outdoor unit can be controlled by 16-steps according to ambient temperature change.

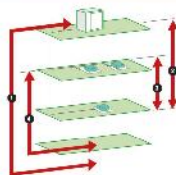
- The stability of discharge pressure and suction pressure of the compressor is assured.
- The stability of flow (Capacity) dynamic allocation of indoor unit is assured and its fluctuation is decreased.
- Control system is strengthened to response quickly and the unit is further assured to operate steadily, durably and reliably.



05 Long Piping Design

- 1 Actual piping length: 50 m(RAS-SHRNM1Q)
- 2 Maximum height difference between outdoor and indoor units: 50 m*
- 3 Height difference between highest and lowest indoor units: 3.5 m
- 4 Maximum distance between first branch and indoor units: 20 m(RAS-SHRNM1Q)

*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 20 m.



II Energy Saving and Great Comfort

01 High-Efficiency

Optimized System and Energy-saving

High efficiency benefits from DC inverter compressor, DC fan inverter DIP-IPM and heat exchanger with super-cooling circulation.



Individual Operating Function

For individual operating function, up to 5 indoor units can be individually controlled by a remote control switch. Meanwhile outdoor unit adjust capacity output according to actual air conditioning load. In this way, power consumption will be decreased.



Outdoor Unit Power Consumption
25% x 2 Indoor Units = 50%



02 Top-Class Quiet Operation

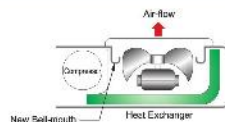
Super High-Stream Fan

Delta-shaped edges reduce fan size and noise.



Adoption of New Bell-mouth

The new bell-mouth (resin mold) minimizes flow friction, resulting in smooth flow and low sound.



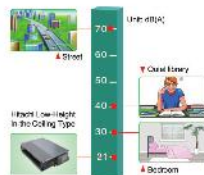
The Quietest In the Industry

Low Noise Mode at Night

The outdoor unit of IVX mini system 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

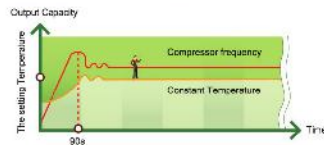


RP1Z-1.0FSN1Q offers a quiet sound level of 21dB(A) by the "Low" fan speed setting.

03 Quick Startup and Precise Room Temperature Control

Quickly Reaching to the setting temperature

The DC inverter controls compressor speeds from 20Hz to 115Hz, reaching quickly to the setting temperature.

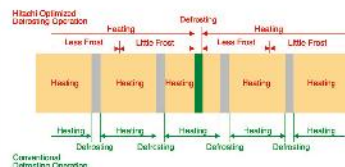


Intelligent Defrosting Technique

Frost is not frequently formed in winter which ensures small defrosting frequency and good heating effect.

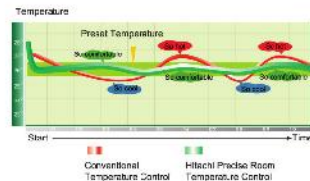
- The outdoor unit adopts external temperature sensor and heat exchanger temperature sensor to conduct a parameter variable defrosting to control defrosting period accurately.

- The outdoor fan rotating speed combining with the opening degree of electronic expansion valve and inverter control on compressor ensures optimized circuit control and postpones the occurrence of frost.



Precise Room Temperature Control

IVX mini system adopts thermistors for indoor suction air temperature, indoor discharge air temperature and remote control switch. In the way, the system can maintain the room temperature within 0.5°C of setting temperature especially for sensitive groups such as elder, children etc.



04 Wide-range Control System

Various Controllers

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



PC-MR
Remote Control
Switch



PC-LR3A
Wireless Remote
Control Switch



PSC-55
PSC-6645
Central Station

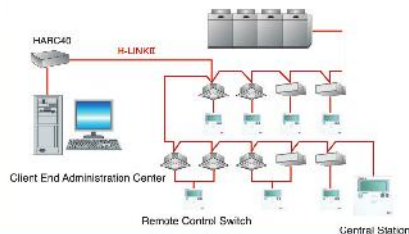


PSC-81T
7-Day Timer

CS-NET Computer Controlled Network System

CS-NET is a powerful computer controlled network system with easy operation which can monitor and control almost 1024 outdoor units and 2560 indoor units.

HARC40 is the network adapter of CS-NET, each of which can interface up to 160 indoor units.



Power Consumption Measurement

Base on the operation data to config the indoor/outdoor units, which are including operation time, power and the electronic expansion valve opening conditions, total power consumption recorded by voltmeter is allocated to the sub-indoor units by a software as a result to carry out personal household metering.

IVX mini Specifications

Outdoor Units General Data

Model		RAS-3HRNM1Q	RAS-4HRNM1Q	RAS-5HRNM1Q	RAS-5HYNM1Q
Power Supply		AC1Φ, 220V~240V/50Hz			AC3Φ, 380V~415V/50Hz 380V/50Hz
Nominal Heating Capacity ¹⁾	kW	8.3	10.4	12.9	12.9
	Btu/h	28,303	35,500	44,000	44,000
Nominal Cooling Capacity ²⁾	kW	8.0	10.0	12.5	12.5
	Btu/h	27,303	34,100	42,700	42,700
Nominal Heating Capacity	kW	9.0	11.2	14.0	14.0
	Btu/h	30,703	38,000	47,800	47,800
Outer Dimensions	H	mm	800	800	800
	W	mm	950	950	950
	D	mm	370	370	370
Net Weight	kg	67	84	84	84
Sound Pressure Level (dB(A))	Cool+heat	47/49	55/57	55/57	55/57
	Night-shift	43	50	52	52
Max Number of Connectable Indoor Units		Suits	Suits	Suits	Suits
Refrigerant		R410A			
Operating Range	Cooling	-5~45°C DB			
	Heating	-20~17°C WB			
Refrigerant Flow Control		Micro-Computer Control Expansion Valve			
Refrigerant Piping		Flare-Nut Connection			
Liquid Line	mm	Φ9.53			
Gas Line	mm	Φ16.88			
Pipe Connection		Multi-Kit Connection			
Multi-Kit		E-102SN			

NOTES:

1. The nominal cooling capacities and heating capacity are based on following conditions:

Cooling Operation Conditions	Heating Operation Conditions
Indoor Air Inlet Temperature: 27°C (80°F) DB	Indoor Air Inlet Temperature: 20°C (68°F) DB
1) 18.5°C WB (65°F WB)	Outdoor Air Inlet Temperature: 7°C (44°F) DB
2) 18.0°C WB (65°F WB)	6°C (43°F) WB
Cooler Air Inlet Temperature: 25°C (77°F) DB	Piping Length: 7.6 Meters
Piping Length: 7.6 Meters	Piping L: 0 Meter

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

1. 1.5 Meters from Top, Left, 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.



04 Wide-range Control System

Various Controllers

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



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Remote Control
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Wireless Remote
Control Switch



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Central Station

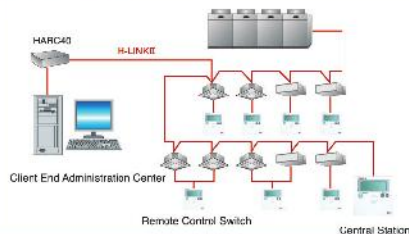


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Nominal Heating Capacity ¹⁾	kW	8.3	10.4	12.9	12.9
	Btu/h	28,303	35,500	44,000	44,000
Nominal Cooling Capacity ²⁾	kW	8.0	10.0	12.5	12.5
	Btu/h	27,303	34,100	42,700	42,700
Nominal Heating Capacity	kW	9.0	11.2	14.0	14.0
	Btu/h	30,703	38,000	47,800	47,800
Outer Dimensions	H	mm	800	800	800
	W	mm	950	950	950
	D	mm	370	370	370
Net Weight	kg	67	84	84	84
Sound Pressure Level (dB(A))	Cool+heat	47/49	55/57	55/57	55/57
	Night-shift	43	50	52	52
Max Number of Connectable Indoor Units		Suits	Suits	Suits	Suits
Refrigerant		R410A			
Operating Range	Cooling	-5~45°C DB			
	Heating	-20~17°C WB			
Refrigerant Flow Control		Micro-Computer Control Expansion Valve			
Refrigerant Piping		Flare-Nut Connection			
Liquid Line	mm	Φ9.53			
Gas Line	mm	Φ16.88			
Pipe Connection		Multi-Kit Connection			
Multi-Kit		E-102SN			

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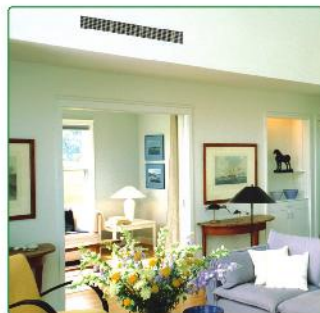
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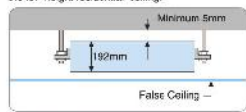
Low-Height In-the-Ceiling Type



SET FREE-RPIZ Technical Features

Installation Space-saving

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

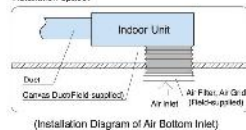


Broad Range of External Static Pressure

10Pa(or 30Pa), 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.



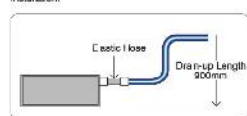
Quiet Operation

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	28	25
RPIZ-1.5FSN1Q	31	28
RPIZ-1.8FSN1Q	34	29
RPIZ-2.0FSN1Q	34	28
RPIZ-2.3FSN1Q	36	30
RPIZ-2.5FSN1Q	36	30

Drain-up Mechanism as Standard Part

Drain-up length achieves 300mm which enables convenient drain piping and enlarges the flexibility of installation.



Indoor Unit		Low-height In-the-Ceiling Type									
Model		RPIZ-0.8FSN1Q	RPIZ-1.0FSN1Q	RPIZ-1.3FSN1Q	RPIZ-1.5FSN1Q	RPIZ-1.8FSN1Q	RPIZ-2.0FSN1Q	RPIZ-2.3FSN1Q	RPIZ-2.5FSN1Q		
Power Supply		AC 120V~240V/50Hz/230V/60Hz									
Nominal Cooling Capacity (1)	kW	2.3	2.9	3.8	4.4	5.2	5.8	6.9	7.3		
	kcal/h	2,000	2,500	3,300	3,800	4,500	5,000	5,900	6,300		
Nominal Heating Capacity (2)	kW	2.2	2.8	3.8	4.3	5.0	5.8	6.3	7.1		
	kcal/h	1,900	2,400	3,300	3,700	4,300	4,900	5,400	6,100		
Vertical Heating Capacity	kW	2.8	3.3	4.2	4.8	5.5	6.5	7.5	8.5		
	kcal/h	2,400	2,800	3,600	4,200	4,800	5,600	6,500	7,300		
Sound Pressure Level (High/Medium/Low)	dBA	27-24-21	27-24-21	31-28-26	31-26-26	34-30-28	34-30-28	35-30-28	35-31-30		
	H mm	192	192	192	192	192	192	192	192		
Outer Dimensions	W mm	300	300	300	300	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		
	(lb)	(46)	(46)	(48)	(48)	(59)	(59)	(59)	(59)		
Refrigerant		R410A (Recharge for Condenser-side use)									
Indoor Fan Air Flow Rate (High/Medium/Low)	m ³ /min	8.7/8	8.7/8	10.8/7	10.8/7	11.5/12.5/10.5	11.5/12.5/10.5	16.1/14.2	16.1/14.2		
Motor Power		W	16	16	25	25	40	40	50		
Connections Refrigerant Piping		Flareless Connection (with Flare Nut)									
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)	(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 43.2)									
External Static Pressure	Pa	10(30)	10(30)	10(30)	10(30)	10(30)	10(30)	10(30)	10(30)		
Approximate Piping Measurement	m	0.15	0.15	0.15	0.15	0.18	0.18	0.18	0.18		

NOTES:

1. The nominal cooling capacity and heating capacity are based on following conditions:

Cooling Operation Conditions

Indoor Air Inlet Temperature: 27°C (dry-bulb temp.)

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Heating Operation Conditions

Indoor Air Inlet Temperature: 20°C (dry-bulb temp.)

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2. The sound pressure level is based on following conditions: as 1m beneath the unit.

The above data was measured in an anechoic chamber, so the actual 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 value for external pressure indicates standard pressure setting values when an air filter is not used.

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Wall Type



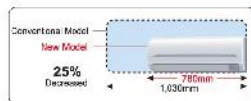
SET FREE-RPK Technique Features

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 760 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
	2.5-4.0	16

Stylish Design and Easy Maintenance

The unit has been designed 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-1.0/1.5S2M2	RPK-1.5/2.5S2M2	RPK-2.0/3.0S2M2	RPK-2.5/3.5S2M2	RPK-3.0/3.5S2M2	RPK-4.0/5.0S2M2
Power Supply		AC110-220V~240V/50Hz/220V/50Hz					
Nominal Cooling Capacity (1)	kW	2.9	4.1	5.8	7.3	8.3	11.8
	kcal/h	2,500	3,500	5,000	6,300	7,100	10,000
Nominal Cooling Capacity (2)	kW	2.6	4.0	5.6	7.1	8.0	11.2
	kcal/h	2,400	3,400	4,900	6,100	6,900	9,600
Nominal Heating Capacity	kW	3.2	4.5	6.3	8.5	9.0	12.5
	kcal/h	2,800	4,100	5,400	7,300	7,700	10,700
Sound Pressure Level (High/Low/Min)	dB(A)	38-30-34	40-30-36	41-30-37	43-40-37	43-40-37	45-46-43
Coloured Color		White					
Outer Dimension(H)	mm	290	290	295	333	333	333
	(in)	(11-1/4)	(11-1/4)	(11-13/16)	(13-1/8)	(13-1/8)	(13-1/8)
Outer Dimension(W)	mm	760	760	1000	1160	1160	1160
	(in)	(30-5/16)	(30-5/16)	(40-5/16)	(45-9/16)	(45-9/16)	(45-9/16)
Outer Dimension(D)	mm	210	210	230	245	245	245
	(in)	(8-1/4)	(8-1/4)	(8-1/4)	(9-7/16)	(9-7/16)	(9-7/16)
Net Weight	kg	10	10	12	16	16	18
	(lb)	(22)	(22)	(26.4)	(35.3)	(35.3)	(39.6)
Refrigerant		R410A(Nitrogen charged for Corrosion resistance)					
Indoor Fan Air Flow Rate (Cooling/Heating)	m ³ /min (cfm)	10/67 (353/2407)	11/109 (390/3531)	14/121/4 (494/4235)	17/161/4 (606/5654)	17/161/4 (606/5654)	22/201/7 (777/7060)
	W	20	20	30	30	30	30
Commissions Refrigerant Piping		Flare nut Connection(With Flare Nuts)					
Liquid Line	mm	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)
Gas Line	mm	φ12.7	φ12.7	φ15.88 or φ12.7	φ15.88	φ15.88	φ15.88
	(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 Piping Recommended		m	6.0	6.0	6.11	6.13	6.13
Standard Accessories		Wall Mounting Bracket					

NOTES:

- The nominal cooling capacity and heating capacity are based on the following conditions:
 Cooling Operation Conditions: Indoor Air Inlet Temperature: 27°C (80°F) (DB), Indoor Air Inlet Humidity: 50% RH, Outdoor Air Inlet Temperature: 35°C (95°F) (WB), Outdoor Air Inlet Humidity: 75% RH, Cooling Air Inlet Temperature: 24°C (75°F) (WB), Cooling Air Inlet Humidity: 50% RH.
 Heating Operation Conditions: Indoor Air Inlet Temperature: 20°C (68°F) (DB), Indoor Air Inlet Humidity: 30% RH, Outdoor Air Inlet Temperature: 7°C (45°F) (WB), Outdoor Air Inlet Humidity: 60% RH.
 Piping Length: 7.5 Meters, Piping Laid: 0 Meter.
- The sound pressure level is based on the following conditions:
 1 Meter beneath the Unit and 1 Meter from 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 1-3dB.
 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-3.0-5.0FSN1Q
Receiver Kit for Wireless Control	PC-RLHN8 / PC-ALHN	PC-RLHN8 / PC-ALHN
3-Way Outlet Parts Set	PI-23LS5	PI-25LS5
Kit for Deodorant Filter	F-23L4-D	F-46L4-D
Deodorant Filter	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-0.8-1.5FSNQLH	RPI-1.8-2.5FSNQLH	RPI-3.0-4.0FSNQLH	RPI-5.0FSNQLH
Long-life Filter Kit	F-15L13C	F-23L13C	F-34L13	F-46L13
Filter Box	B-15M13C	B-23M13C	B-34M13	B-46M13
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

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 ducts are connected to the indoor unit directly.

⁴: It is used when both of the fresh air intake kit and filter box are used.

Control System

Model	RPI-FSNQLH	RPIZ-FSN1Q	RCI-FSN1Q	RPK-FSNSM2
Remote Control Switch	PC-AR3PC-ARQ (Without Cable)	○	○	○
Wireless Remote Control Switch	PC-LH3A	○	○	○
7-Day Timer	PSC-A1T	○	○	○
Central Stat on	PSC-SS PSC-AB4S	○	○	○
P/C Network System	CS-RET	○	○	○

○: Applicable

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