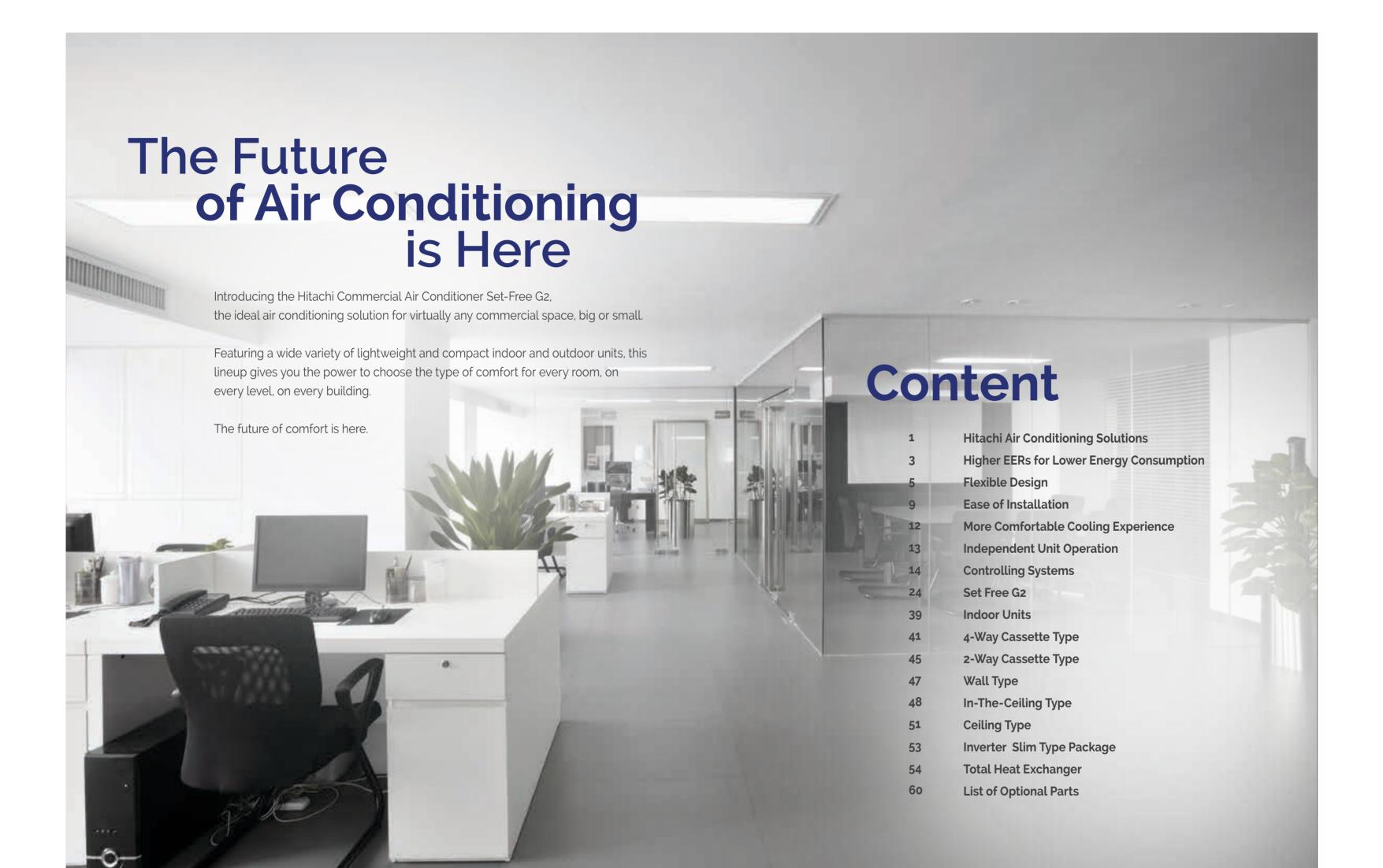


Specifications in this catalog are subject to change without prior notice to keep abreast with product innovations for our customers' benefit.









OUTDOOR UNITS

Capacity From 6 to 96 HP

(See P.25-44)

Hitachi Outdoor Units are designed to give you the cooling comfort you deserve while providing ease of installation. These air conditioners feature Hitachi's revolutionary scroll compressor that uses R410a refrigerant that's energy efficient and environmentally friendly at the same time.

G2 Series









6 to 96 HP

INDOOR UNITS

6 Indoor Units that can be used interchangeably

(See P.46-61)

State-of-the-art control network system provides you ease of access for virtually endless comfort. Old and new refrigerant types are applicable to match the requirements of your outdoor unit.



Cassette Type

(4-way)



Cassette Type

(2-way)









In-The-Ceiling Type

Wall Type

Ceiling Type

Inverter Slim Type

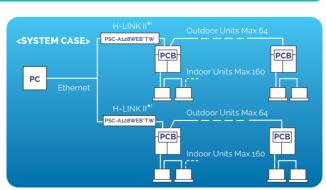
(See P.14-17)

NETWORK SYSTEMS

(CS-NET)

The CS-NET System, designed specifically for Hitachi Air Conditioners, is optimized for central management systems of buildings and is compatible with computer-controlled systems.

- •Through H-LINK II wiring, connect up to 64 outdoor units.
- \bullet Through H-LINK $\rm I\!I$ wiring, connect up to 160 indoor units.



★ 1: Max length of transmission wire for each of indoor unit and outdoor unit is 1,000m

SYSTEM CONFIGURATION

CONTROLLERS

Wireless Remote

Control Switch

Wireless function

for easy operation

9 Types of Controllers for Efficient Air Conditioning







Remote Control

Switch

Large LCD display for

aircon status





Audio guidance and

large LCD display



High-Performance Remote Control Switch



for Hotels Multi-functional controller ideal for hotels and other similar

establishments

Wired Controller



(See P.18-22)

Central Station Controller EZ

With 8.5 in. touch panel that can control up to 160 indoor units of 64 groups in 4 interval spaces



Central Station

Controls up to 160 indoor units of 64 groups in 4 interval spaces



Standard Centralized Controller

Operates and display 16 groups of indoor units



Centralized ON/OFF Controller

Controls operation per remote control group. Can connect up to 16 remote control groups and 160 indoor units.



7 Days Timer

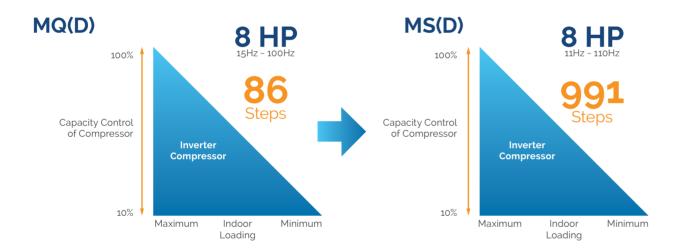
When matched with other remote controls,the schedule-based centralized controller can be used to set daily on/off operations every week.



New Research & Development

0.1 Hz / Step Precise Control

High Efficiency DC Inverter Compressor features an IPM tuner that uses vector control technology to control 0.1 Hz/Step accurately so that the compressor automatically adjusts operation under optimal condition, doubling operational efficiency and reducing power consumption.



New Research & Development

New DC Inverter Scroll Compressor

Hitachi Set-Free features a DC Motor and new driving mechanism that reduces unit weight up to 50% less than conventional compressors. The Inverter DC Motor has the ability to modulate its operating speed increasing its efficiency.

New R410A scroll

30 years of research by Hitachi produced the most innovative scroll compressor yet.



New Driving Mechanism (Including fuel control mechanism ... etc.)

When refrigerant is compressed, heat and mechanical consumption are greatly reduced, thus making it more reliable.

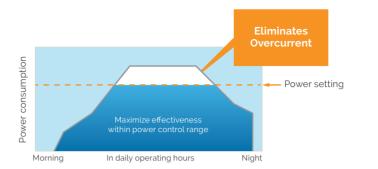
DC Motor

Air conditioner load ranges from low speed to high speed making operations more efficient.

New Research & Development

Self-Demand Control

Self-Demand Control feature automatically controls power consumption through self-detecting current and controls it's original external signals to select multiple operation modes for different requirements.

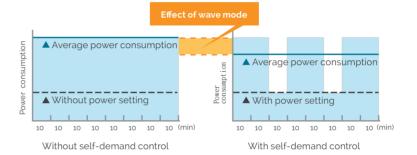


	Model	A variety of selection criteria for power consumption
G2 series	MS(D)	100% \ 80% \ 70% \ 60% \ 40%

Note: At self-demand control, operating capacity may be reduced.

New Wave Mode

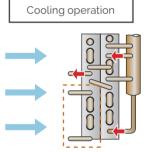
The power rationing setup of Wave Mode enables you to turn the unit on or off automatically between intervals to lower power consumption. It is even capable of using minimal electricity to maintain a constant comfortable temperature in running mode.



New Research & Development

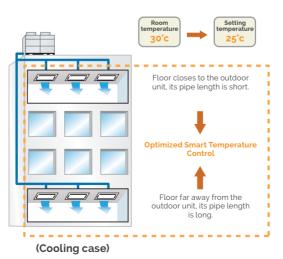
Heat Exchange Optimized to Lower Cooling Waste

Cooling Operation: Newly designed subcooler enhances cooling capacity for more operational efficiency.



New Research & Development

Smart Temperature Control



Smart temperature control automatically adjusts to the right setting so that each floor has an even cooling or heating supply.

Smart Temperature Control can also sense the location of the room, floor number, sunlight exposure and the room capacity to automatically adjust cooling.



Variety of Models

Modular configuration can achieve a maximum of 96HP, meeting virtually any building requirement. A variety of cooling capacities are also available for you to choose from.

A Variety of The Indoor Units

Below are the different types of indoor units to meet different space condition with appropriate indoor combination.







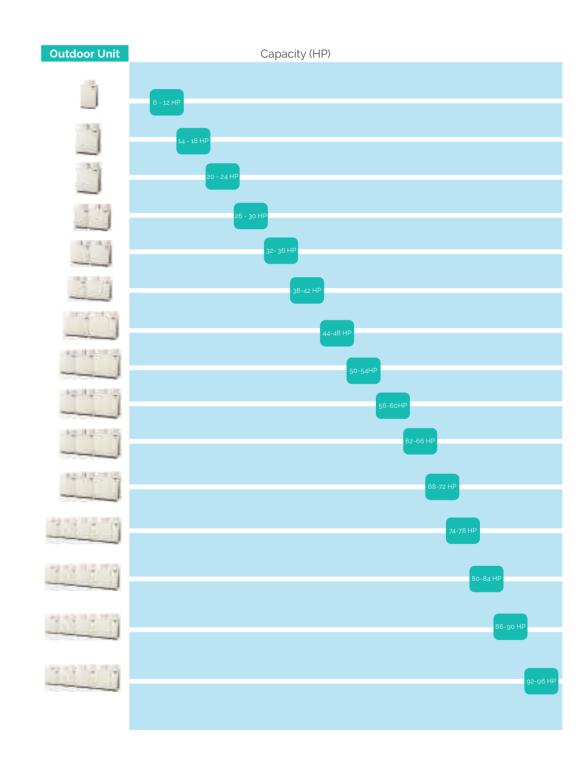




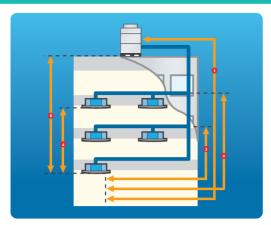


Standard Modular Outdoor Unit For MQ(D) and MSD Models

Only two-core wires and two pipes are required to make a parallel connection for more small horsepower outdoor units, thereby obtaining a large horsepower outdoor unit.



Pipe Length Up to 165m (Equivalent Length to 190m)



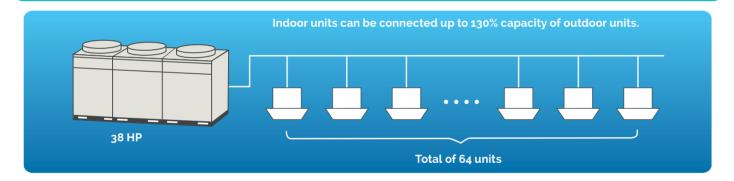


Notes: 1. For total piping length is 1,000m, the recommended maximum quantity of the indoor units can reference connecting quantity of indoor units. 2:*1: More than 50m, stricty follow corresponding.

*2: More than 40m, stricty follow corresponding.

*3: More than 54HP: Piping Length is 90m

One Outdoor Unit Can Connect with 64 Indoor Units for G2 and Royal Series



Connecting quantity of indoor units is listed as below:

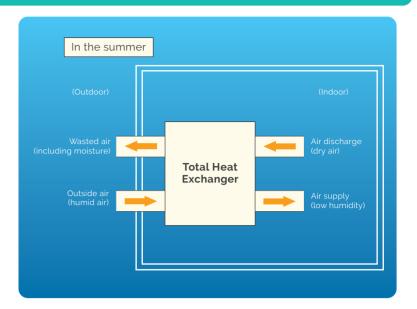
Horsepower of MSD type of outdoor units	6НР	8HP	10HP	12HP	14HP	16-18HP	20HP	22HP	24HP	26HP	28HP	зоНР
Max. compatible indoor units	9	13	16	19	23	26	33	36	40	43	47	50

Horsepower of MSD type of outdoor units	32HP	34HP	36НР	38-96HP
Max. compatible indoor units	53	56	60	64

Note: If a value in parentheses () is 1000m of piping and the recommended maximum quantity of the indoor unit is over quantity of the pipe arrangement, the recommended maximum quantity is limited (see explanation in above list)

Power Saving Total Heat Exchanger

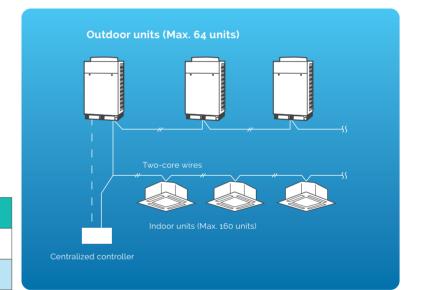
The ventilation system of the Set-Free unit's total heat exchanger can be adjusted to balance the difference between interior and exterior temperature during air exhaust.



H-LINK II Easy and Simple Wiring Configuration

The new wiring configuration for H-LINK II features two-core wired connected to each indoor and outdoor unit (max. 64 refrigerant system sets). This method connects all signal wires of all indoor and outdoor units to the same set of signal wires. In addition, indoor and outdoor units can be connected with a centralized controller.

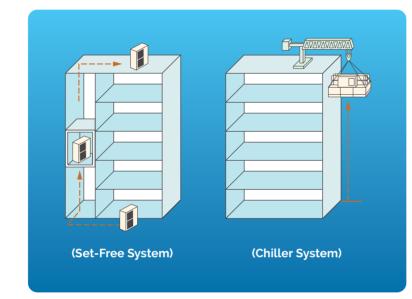
	H-LINK∏
Outdoor units	Max. 64 units
Indoor units	Max. 160 units





Transport via Elevator

The lightweight outdoor unit can be lifted by an elevator making the use of specialized hooks or apparatus unnecessary.



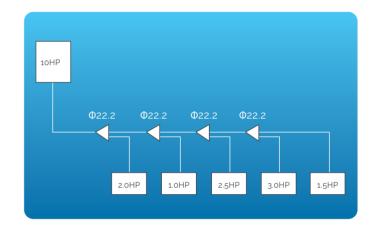
Independent Refrigerant System

Hitachi Set-Free can be installed and tested on each floor even when a building has not yet been constructed completely. Installer can independently test each refrigerant system so full system configuration is not necessary



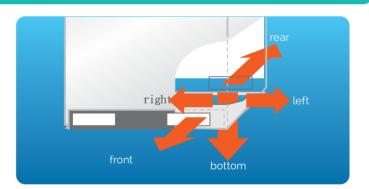
Single Refrigerant Piping for Shorter Installation Time

The innovative single pipe system is possible by transforming the entire piping system into a singular copper pipe (less than 10HP is recommended).



Flexible Refrigerant Piping (for MQ(D) Type)

Outdoor piping connection is made easy thanks to its five-way directional flexibility (front, rear, left, right and bottom).



Flexible Multi-Kit Installation

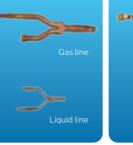
Multi-kit with insulation is included to decrease installation works and increase system reliability.

Note: 1. Maintenance holes of lock-type multi-kit and middle centralized manifold penstock are required.

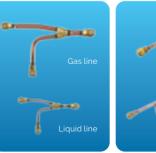
Refrigerant flow noise is reduced by means of Hitachi multi-kit.



Multi-kit (rtype)



Multi-kit (∀type)



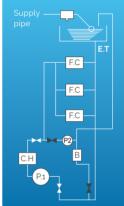
Flare-type multi-kit Flare-type centralized



Simplified Piping

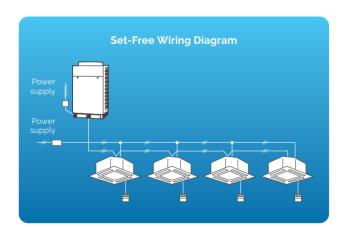
Single piping system or reduced piping system reduces construction and installation cost.





Optimized Wiring System

Innovative non-polar two-core wires are applicable to both indoor and outdoor units to connect wiring immediately and effectively. In addition, because of the non-polar transmission, the connecting error between⊕and ⊖ends are minimized to prevent poor transmission.



Automatic Setting

The number of refrigerant systems for indoor units can be set automatically.

Refrigerant Saving

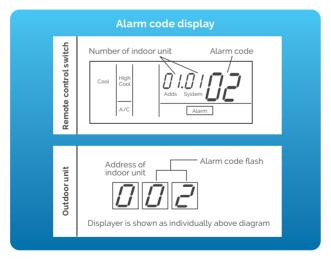
The R410a Refrigerant is not only highly efficient, but eco-friendly too.

Diameter of pipe	R22 model	R410A model
Φ9.53	0.065 x 30 x 4 = 7.8kg	0.070 x (70 + 30 x 4) =13.3kg
Ф12.7	0.120 x 70 = 8.4kg	_
Total	16.2kg (100%)	13.3kg(82%)

18% Less Refrigerant Usage

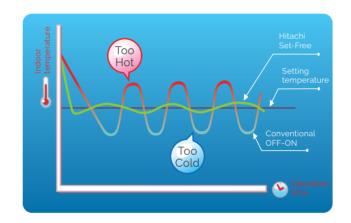
Self-Diagnose Function

With just one button, you can check the unit's status through the remote control. Vital system information such as pressure differences (high and low) and maintenance status is displayed. It can also detect anomalies in wiring, piping or unit installation.



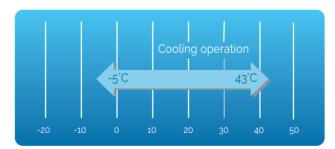
Constant Temperature Control

By employing Hitachi's Inverter Control Technology, the indoor unit detects room ambient temperature and relative temperature of the unit. The operation of the compressor, electronic expansion valve and refrigerant flow is automatically modulated, offering maximum efficiency.



Wide Range of Operation

Hitachi Set-Free has the capacity to operate within -5 to 43°C.

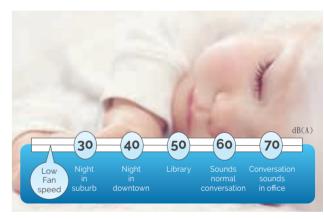


Smart Restart Function

During power outages, Hitachi Set-Free has a restart function (pre-setting required) that can avoidre-setting trouble.

Low Noise

Using computational fluid dynamics (CFD) analysis techniques, Hitachi Set-Free decreases air impedance in each of the indoor and outdoor units for optimum noise levels during operation.



*Tested in low fan speed of RPI-36NR.

*The sound pressure is measured at l.5m below a center of each units.

'The sound pressure level is measure in an anechoic chamber so that reflected sound should be taken into consideration in the field.

Advanced Ventilation System

Being in a closed space for a long time may cause people to become sluggish, stressed or fatigued, which can cause lower work efficiency.

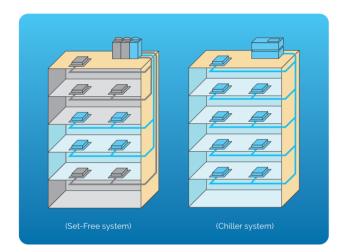
The ventilation system features a total heat exchanger which can automatically enhance the air quality hence create a more comfortable workplace environment.





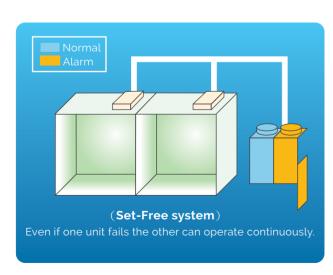
Individual Partition Area Control

Hitachi Set-Free can control individual partition areas and the total operating load of outdoor units to avoid unnecessary operations in unoccupied areas.



Emergency Backup Operation

Backup operation function prevents the system from going to a complete halt when an outdoor unit fails.



Space-Saving Installation

The small and lightweight outdoor units can be installed on a staircase landing or balcony.



Flexible Refrigerant Piping

Connecting quantity of indoor units can be up to 130% quantity of outdoor units.

A Model for Every Room

Outdoor units are available from 4HP to 54HP, while indoor units are available in 6 varieties that can virtually meet any room/floor, size, condition or requirement.

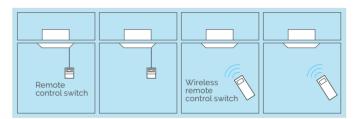
Network System

A Central Management Network System can inform its users the operating state through a centralized controller or PC. The system can monitor the operation of air conditioners in real time and also set operating schedules and individual temperatures to make management easy.



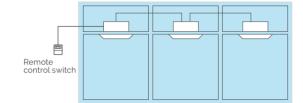
REMOTE CONTROL FOR INDIVIDUAL OPERATIONS

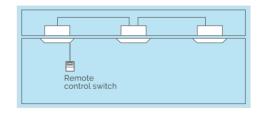
Individual indoor units installed in each room can be controlled by either a wired or wireless remote control.

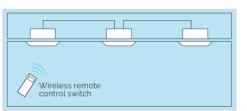


ONE CONTROLLER FOR MULTIPLE UNITS

Fixed remote control can control a maximum of 16 indoor units and turn the unit on/off or modify their operation modes. Wired and wireless remote controls on the other hand can be used to turn the unit on/off units in the same room. Wired and wireless remote controls can control a maximum of 16 indoor units when separately.





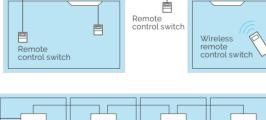


ONE UNIT WITH TWO REMOTE CONTROLS

There are two ways to control an indoor unit using two remote controls:

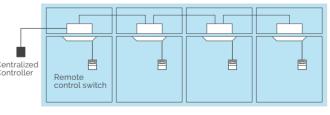
- 1) Control a single indoor unit using two wired remote controls
 2) Control a single indoor unit using a wired remote control and a wireless remote control
- ONTROL REMOTE CONTROLS VIA A CENTRALIZED CONTROLLER

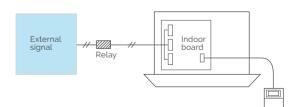
The centralized controller can control not just the indoor units in different rooms, but also the wired remote controls as well.



CONNECTION WITH LOCAL CONTROLLER

Signal conversion is available by ways of relay and an external controller that can turn the indoor units on/off and monitor the system's operation.





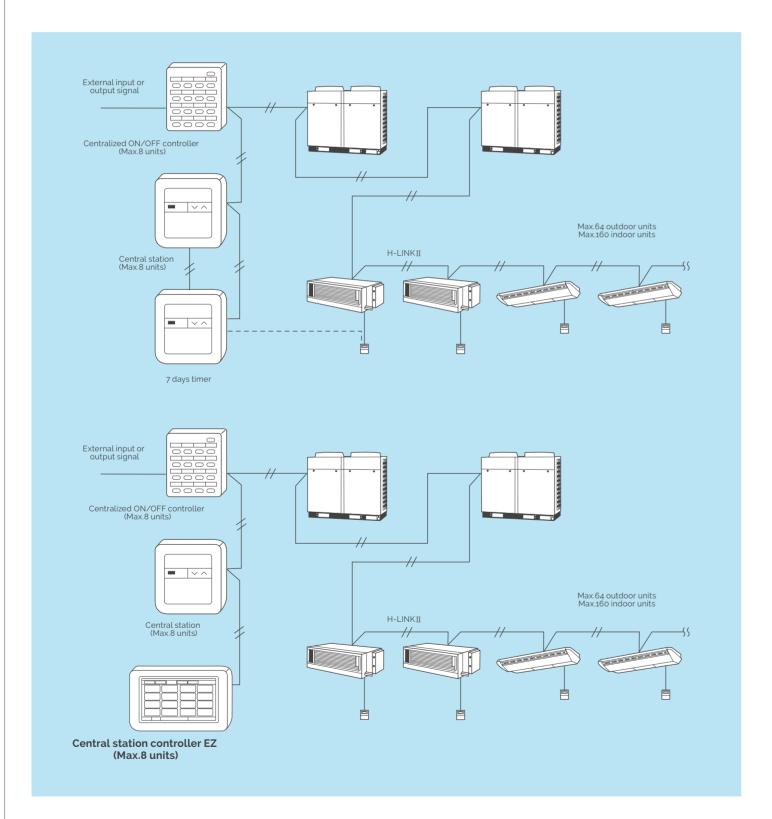
CS-NET For More Details, Please Contact Your Hitachi Sales Officer

CS-NET can synchronize with the centralized controller, PC or management computer in the building to monitor operation and check any anomaly in the system.

* Applying the wiring connections of H-LINK II, such as non-polar two-core wires, it can connect all indoor units together to simplify construction.

1.Network Management System of Centralized Controller

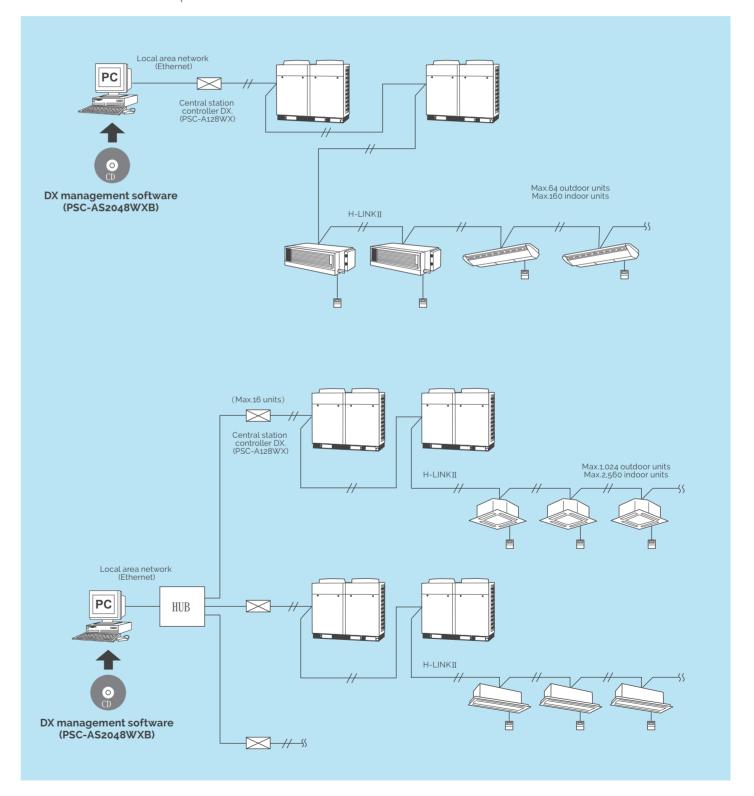
Transmission lines between indoor units, outdoor units and the centralized controller are combined to form a public network, that simplifies the wiring system to reduce the risk of system errors.



2.Network Management System of PC Framework

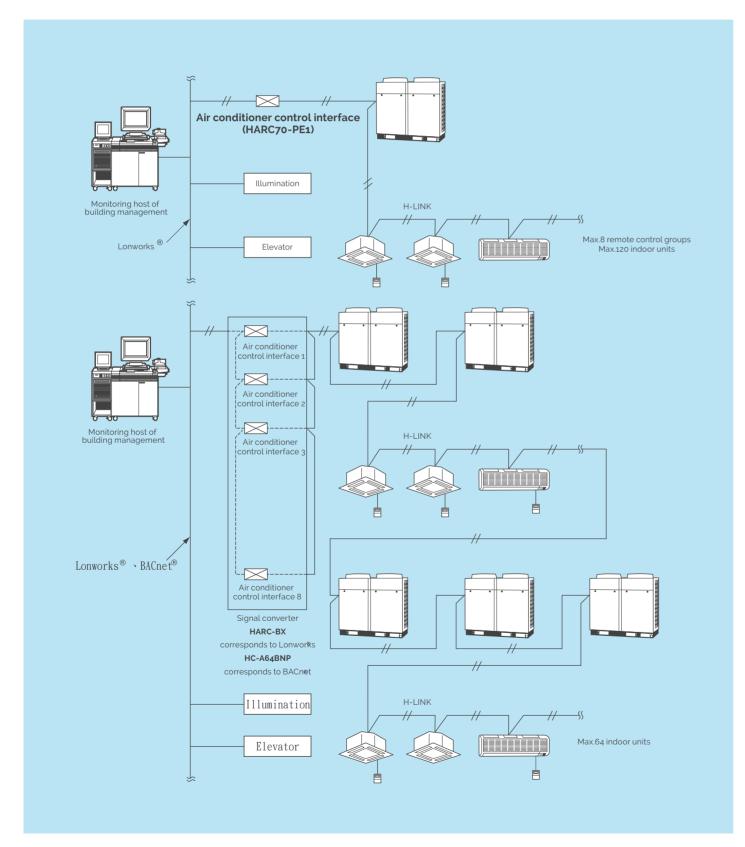
- * Parallel connection of 16 air converter control interface (PSC-A128WX) by means of one set of management software to control 1,024 outdoor units and 2,560 indoor units.
- * Provides configuration diagram of local air conditioners
- * Monitor and manage operations via LAN
- * Vivid image interface to easily display the operation and temperature of each indoor unit
- * 16 operating modes can be set per day for weekly schedule; 5 specific dates can be set for annual schedule
- * Operates with central station controller EZ, central, and centralized on/off controller
- * Schematic diagram for calculating ratio, operating time and temperature setting is used to facilitate air conditioner operations





3. Building Management System

The building management system can connect with the management computer in the building to integrate with the central air conditioning systems. Specific signal converters lets Hitachi units connect with an open network (Lonworks®, BACnet®) to meet the demands of modern establishments.



Centralized Controller

Central station controller EZ

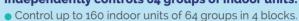
Independently controls 64 groups of indoor units.

- 8.5-inch touch screen to display information clearly and facilitate operation.
- Controls a maximum of 160 indoor units of 64 groups in 4 blocks.
- Provides basic control functions
- Remote operation, urgent stop, setting operation and fault signals are available via external input or output signal.
- Create daily operation settings such as temperature control or power off.
- Display cumulative operating time of each month of each group to manage energy use.
- Self-demand control can limit power consumption in specific time and save energy.
- Two-core signal wire for easy installation (Max wiring length 1,000m).

PSC-A64GT

Central centralized controller

Independently controls 64 groups of indoor units.





Provide basic control functions

- Three functional settings based on user requirement.
- Remote operation, urgent stop, setting operation and alarm signals are available via external input or output signal.
- Matches with other centralized controllers.
- Two-core signal wire for easy installation (max wiring length 1,000m).

PSC-A64S

Standard centralized controller Can be used as a small centralized controller for remote controller groups. • Controls up to 16 groups of wired remote controls (Max.128 indoor units).



• Provides basic control functions.

- Remote operation, urgent stop, setting operation and alarm signals are available via external input or output signal.
- Connects up to 8 centralized controllers in H-LINK.
- Matches with other centralized controllers.
- Two-core signal wire for easy installation (Max wiring length 1,000m).

PSC-5S

Centralized ON/OFF controller Simultaneously or independently controls 16 groups of wired remote controls.

- Controls up to 16 groups of wired remote controls (Max.160 indoor units).
- Centralized controller for displaying operation status.
- Connects up to 8 centralized controllers in H-LINK.
- Can be used with other centralized controllers (PSC-A64S1, PSC-5S).
- Matching with remote control or wireless remote control is required.
- Two-core signal wire for easy installation (Max wiring length 1,000m).

PSC-A16RS

7 days timer

PSC-AIT

Operation based on daily set schedule in a week.

- Switches two modes of weekday setting.
- Users can set up to 3 times of operations every day.
- Digital display to show and confirm setting operation and content easily.
- Restores original setting mode within three days after power failure.
- Matches with other centralized controllers or wired remote controls.
- V (Max wiring length 1,000m).

Remote Controllers

Model Type	Cassette Type (4 ways) (RCI)	Cassette Type (2 ways) (RCD)	Ceiling Type (RPC)	In-The-Ceiling Type (RPI)	Wall Type (RPK)						
Wireless remote control switch PC-LH3A	 Matching with optical receiver is required. Optical receiver is fixed in panel. 	Matching with optical receiver is required. Optical receiver is fixed in panel. optical receiver is fixed in panel.	Matching with optical receiver is required. Optical receiver is fixed in panel. Optical receiver is fixed in panel.	Matching with optical receiver is required. The optical receiver can be fixed at desired position. optical receiver	Optical receiver is provided.						
Remote control switch		Applicable to all models									
High-performance wired remote control switch		Appli	icable to all models								
Wired controller for hotels PC-ARH		Appli	icable to all models								

Air Conditioner Control Interface



PSC-A128WX

- Controls up to 64 outdoor units and 160 indoor units in the H-LINK II
- PC (OS: Windows XP) can be used as a centralized control, daily. Schedule setting, and monitoring of air conditioner
- Central station controller DX management software (PSC-AS2048WXB) is required.
- Remote operation, urgent stop, setting operation and alarm signals are available via external input or output signal
- One computer can connect up to 16 of PSC-A128WX and control 2,048 groups and 2,560 indoor units
- Provides configuration diagram of field conditioner to facilitate viewing of user interface
- Features air conditioner use ratio, operating time, and setting temperature of air conditioner to save energy



HARC70-P1

- Controls up to 8 groups of wired remote controls
- Compatible with an open network (Lonworks®) to enhance building management and operation
- The air conditioner must match with remote control
- Simplified wiring through H-LINK
- Not compatible with other centralized controllers



HC-A64BNP

- Controls up to 64 indoor units
- Compatible with an open network (BACnet®) to enhance building management and operation
- The air conditioner must match with remote control
- Simplified wiring through H-LINK



НС-А32МВ

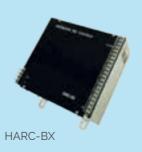
- Controls up to 32 indoor units
- Compatible with an open network (MODbus) to enhance building management and control operation
- Simplified wiring through H-LINK



HC-A8LAN

- Controls up to 8 groups of wired remote controls
- Not compatible with other central controllers
- Simplified wiring through H-LINK
- Compatible with an Ethernet® open netwiork to enhance building management and control operation.

Air Conditioner Control Interface



- Controls up to 64 groups of wired remote controls
- Air conditioner control interface includes 8 sets of signal converters
- \bullet Compatible with an open network (Lonworks $^{\circledR}$) to enhance building management and control operation
- Connects related parts of H-LINK wiring system according to customer's monitoring demands
- Monitoring and controlling at high capacity is available for large scale systems.
- Corresponds to wired remote control
- Not compatible with other central controllers
- $\bigstar \text{Trademark of Lonworks}^{\circledR} \text{is registered in USA and other countries by Echelon Corporation}.$
- ★Trademark of Windows [®]is registered in USA and other countries by Microsoft Corporation.

★Trademark of Windows [®]is re

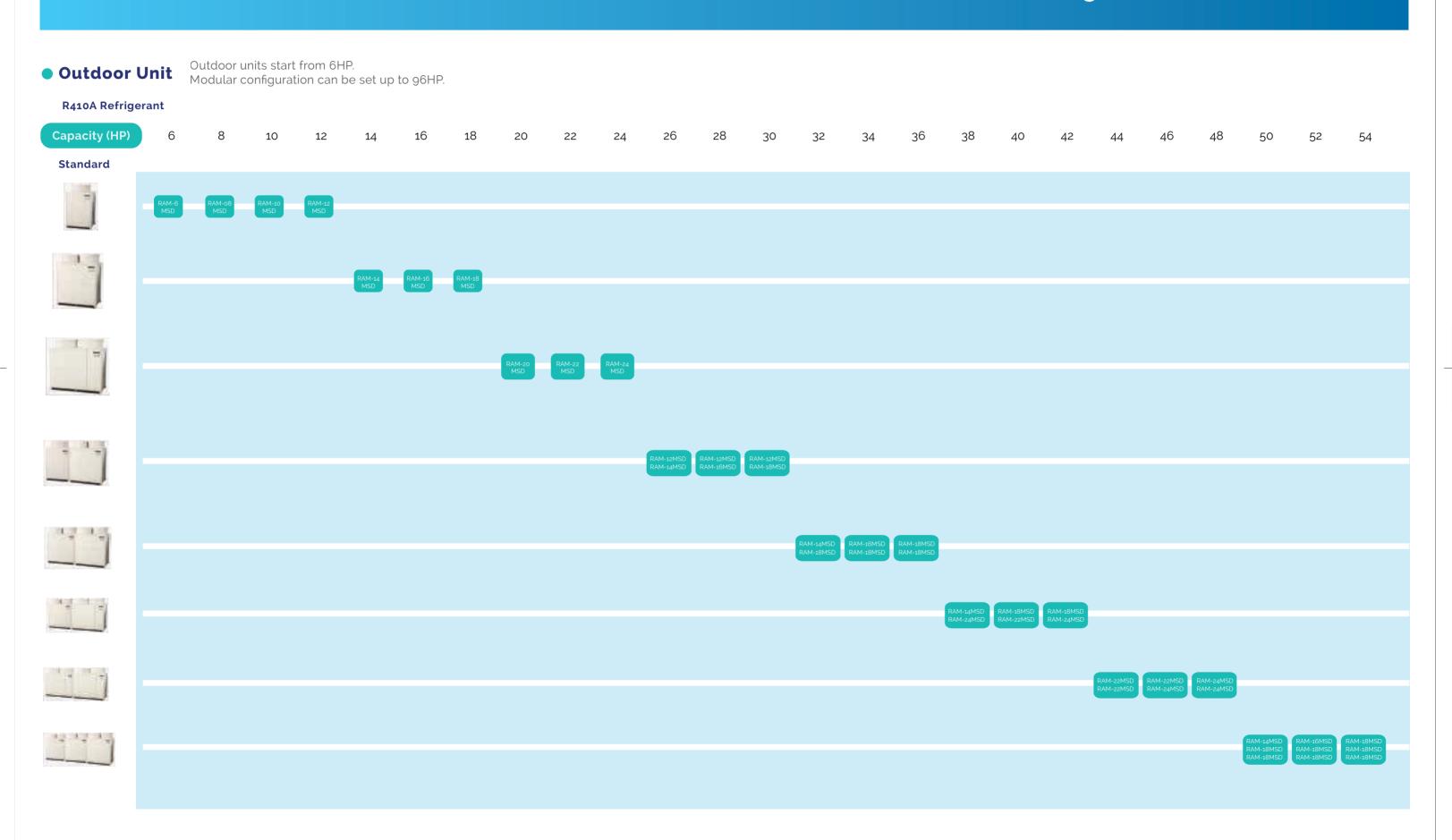
Controlling System

			Indi	vidual Control				ndividual, Regional (Control				Intelligent M	lanagement	
			Re	mote Control				Centralized Con	troller			Air conditioner Co	ontrol Interface		Air conditioner Control Interface • Management Software
		PC-AR	PC-ARF	PC-ARH	PC-LH3A + (PC-ALH\ALHD\ ALHP\ALHZ)	PSC-A16RS	PSC-A64S	PSC-5S	PSC-AIT	PSC-A64GT	HC-A64BNP	HARC70-P1 HARC-BX	HC-A32MB	HC-A8LAN	PSC-A128WX + PSC-AS2048WXB
	Functions	Remote control switch	High-performa nce wired remote control	Wired controller for Hotels	Wireless remote control + (Optical receiver)	Centralized ON/OFF controller	Central station	Standard centralized controller	7 days timer	Central station controller EZ	BACnet Air conditioner control interface	Lonworks Air conditioner control interface	MODbus Air conditioner control interface	LAN Air conditioner control interface	Central station controller DX + Central station controller DX management software
	Operation/Power off	0	0	0	0	0	0	0	Х	0	0	0	0	0	0
	Switching operating modes	0	0	0	0	×	0	0	×	0	0	0	0	0	0
	Temperature	0	0	0	0	×	0	0	×	0	0	0	0	0	0
Setting	Fan speed setting	0	0	0	0	×	0	0	×	0	0	0	0	0	0
function	Limitation of remote control	0	0	×	×	×	0	0	×	0	0	0	×	0	0
	Airflow angle setting	0	0	0	0	×	0	0	X	0	×	0	0	0	0
	Resetting display of filter cleaning	0	0	×	0	×	0	0	×	0	0	×	×	0	0
	Operation/Power off to all machines	X (Note)	X (Note)	X (Note)	X (Note)	0	0	0	X	0	_	0	_	_	0
	Operating status	0	0	0	0	0	0	0	X	0	0	0	0	0	0
	Operating mode	0	0	0	0	×	0	0	×	0	0	0	0	0	0
	Temperature setting	0	0	0	×	×	0	0	X	0	0	0	0	0	0
Monitoring function	Fan speed	0	0	0	×	×	0	0	X	0	0	0	0	0	0
	Air flow	0	0	0	×	×	0	0	X	0	×	0	0	0	0
	Alarm code	0	0	0	0	×	0	0	×	0	0	0	0	0	0
	Display of filter cleaning	0	0	×	0	×	0	0	×	0	0	×	×	0	0
	Time set	0	0	×	0	Δ	Δ	Δ	0	0	_	_	_	_	0
Daily function	Daily operation	Δ	0	×	×	Δ	Δ	Δ	0	0	_	_	_	_	0
	Appointed date operation	Δ	0	×	X	Δ	Δ	Δ	0	0	_	_	_	_	0
	Urgently stopping signal input	X	×	×	Х	0	0	0	×	0	×	×	×	×	0
Others	Calculating fee of other power consumption	X	×	×	Х	×	×	×	×	×	×	×	×	×	0
	H-LINK II	0	0	0	0	0	0	×	0	0	0	×	0	0	0
Notes					Mode of optical receiver: PC-ALH(4-Way Cassette Type) PC-ALHD(2-Way Cassette Type) PC-ALHP(Ceiling Type) PC-ALHZ(In-The-ceiling Type, Wall Type)				Operating schedule is set by matching with wired remote control or centralized controller.		• Provides signals to connect with BMS host.	• Provides signals to connect with BMS host.	Provides signals to connect with BMS host.	• Provides signals to connect with BMS host.	Matches with personal computer or tablet PC is required. Contains calculation of the ratio of easy air conditioner using.



HITACHI G2

Full Range of Products



HITACHI G2

Full Range of Products

Outdoor units start from 6HP.

Modular configuration can be set up to 96HP. Outdoor Unit **R410A Refrigerant** Capacity (HP) Standard



POWER SAVING

DC INVERTER SCROLL COMPRESSOR

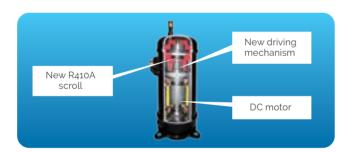
With the combination of a DC motor and a new and highly efficient driving mechanism, the outdoor unit reduced weight up to 50% less than conventional units.

New driving mechanism

The new driving mechanism can enhance reliability because it decreases mechanical movement when the refrigerant is compressed.

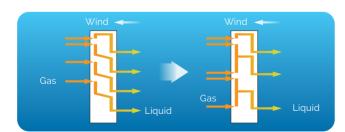
1Hz / Step precise control

High-efficiency DC inverter compressor applies vector technology to control the compressor 1Hz/step accurately so that it can automatically adjust operation for optimal comfort.



OPTIMIZED HEAT EXCHANGER

2 in 1 path arrangements (such as fluid path 2 and airflow path 1) were developed to prevent damage in the heat exchanger to further enhance its performance.

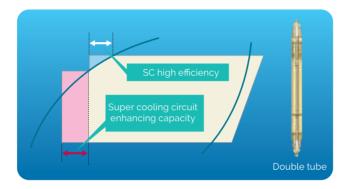


ENERGY SAVING

With the combination of the optimized heat exchanger, the optimized heat transfer pipe for the refrigerant, and efficient sub cooling circuit; the Energy Efficiency Ratio (EER) is increased. Higher EERs mean bigger savings.

SUPER COOLING CIRCUIT

High efficiency double pipe heat exchanger (for MQ(D) type only) enhances overall performance.



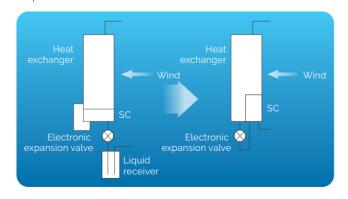
Inverter DC fan motor

New control board distributes cooling load efficiently during low or high speeds.



Efficient Sub Cooler Design

The sub cooler is placed in front of the unit for optimum performance.



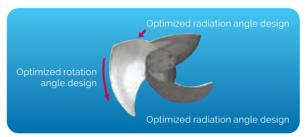
Environment Friendly

Improved cooling cycle reduces the amount of cooling waste to minimize environmental impact.

INSTANT COMFORT

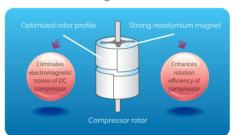
HIGHLY EFFICIENT FAN

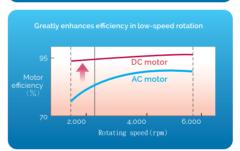
- New three wing ultra-flow fan with 644mm diameter
- Low rotation, low noise and low power consumption



QUIET OPERATION

- Inverter DC motor design enhances operational efficiency
- Compressor rotor generates electromagnetic interference to eliminate electromagnetic noise





OVERVOLTAGE PROTECTION RELAY (Optional)





Additional feature that protects the unit from damage caused by overvoltage. Abnormal overvoltage may be caused by various reasons including sudden power interruptions, lightning impulses, switching impulses, etc.

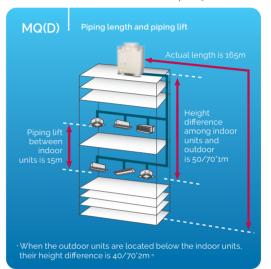
EASY INSTALLATION

LIGHT WEIGHT DESIGNS TRANSPORTED BY ELEVATOR

- Compact and lightweight unit can be delivered via elevator easily.
- Integrated unit casing allows compressors to be arranged side by side.



Maximum pipe length is 165m, and first branch pipe to the farthest indoor unit can reach up to 90m.



Note: *1: Follow strict specification for over 50 m. *2: Follow strict specification for over 40 m.



Note: *1: Follow strict specification for over 50 r *2: Follow strict specification for over 40

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MS(D) Model (STANDARD)

		Model				J					
				RAM-6MS(D)	RAM-8MS(D)	RAM-10MS(D)	RAM-12MS(D)	RAM-14MS(D)	RAM-16MS(D)	RAM-18MS(D)	
		Power	1				3 phase 4 wire: 360V 60Hz				
		nension (WxHxD)	mm			.,675 × 765		1,	210 × 1,675 × 76	35	
Pa		Dimension (WxHxD)	mm			,780 x 805			255 x 1,780 x 80		
		ng Capacity	kW	16.0	22.4	28.0	33.5	40.0	45.0	50.0	
		Capacity (Middle)	kW	7.6	10.5	13.2	15.7	18.8	20.5	23.5	
	Неаті	ng Capacity	kW	18.0	25.0	31.5	37.5	45.0	50.0	56.0	
		Power Consumption	kW	3.38	5.51	8.17	9.83	13.04	15.24	17.96	
		Power Consumption (Middle)		1.36	1.78	2.38	3.03	3.25	3.73	4.37	
	Cooling		A	5.7	9.3	13.8	16.6	22.0	25.7	30.3	
Free Blow		CSPF	Wh/Wh	6.10	6.09	5.56	5.28	5.56	5.29	5.13	
		Outdoor Unit CSPF	Wh/Wh	6.63	6.57	6.15	5.55	6.03	5.68	5.52	
		Power Consumption Level		1	1	1	1	1	1	1	
	Heating	Power Consumption	kW	5.10	5.81	7.80	9.52	12.13	13.68	16.51	
		Running Current	A	8.60	9.80	13.20	16.10	20.50	23.10	27.90	
		Power Consumption	kW	3.98	6.12	8.99	10.85	14.35	17.44	20.5	
	Capling	Power Consumption (Middle)		1.49	2	2.61	3.42	4.04	4.84	5.44	
Dt I	Cooling	Running Current	A	6.7	10.3	15.2	18.3	24.2	29.4	34.6	
Ducted		CSPF	Wh/Wh	5.46	5.44	5.06	4.71	4.62	4.22	4.22	
		Outdoor Unit CSPF	Wh/Wh	5.96	5.92	5.59	5.27	5.03	4.52	4.5	
	Heating	Power Consumption	kW	5.25	6.39	8.92	9.97	13.34	15.35	17.35	
	Day	Running Current wer Factor	A	8.9	10.8	15.1	16.8	22.5	25.9	29.3	
			%	90	90	90	90	90	90	90	
		ing Current	AD(A)	20			50	64	20		
	1	Noise ssor Output (pole)	dB(A) kW	54	55	57	58	61	62	63	
			W	6.3(6) 6.3(6) 6.3(6) 6.3(6)			0.3(0)	6.3 (6)	6.3 (6) x 2	6.3 (6) x 2	
Cooling /		Oil Heater Output x Q'ty		37.3 × 3				0.0	0.0	40.7	
Heating	R410A Charge Refrigerant Oil (charge)		kg		5.0	68D(6.o)	7.2	8.9 9.9 10.7			
System	_	on Device			FVC		Electronic Expa	FVC68D (6.9)	FVCoo	BD (7.9)	
	<u> </u>	/ Heating Shift Device					4 Way \				
	Fan Typ				Dropollor E	an (a blado) y 1		T	llar Fan /a blad	al v a	
Fan System	Air Flow		m ³ /min	155	165	an (3 blade) x 1	190	239	ller Fan (3 blad	60 x 2	
r arr System		utput (pole)	kW						0.75(8) x 2		
		Circle Fuse	A	0.75(8)	0.75(8)	0.75(8) 50	0.75(8)	0.75(8) x 2	50	0.75(8) x 2	
Protection			A			8		10	Ι	5	
Device	Device Operation Circle Fuse High Pressure Cutting					-	4.15			,	
	Gas Pipe		Mpa mm	Φ15 88	Φ10.0E	Ф22.2		Ф25.4	Ф28.6	Ф28.6	
Piping	Liquid Pi		mm	Φ15.88 Φ19.05 Φ22.2 Φ25.4 Φ9.53 Φ12.7			Ф12.7	Φ25.4 Φ12.7	Ф12.7	Ф15.88	
	Weight kg				198		210	268	326	327	
		Outdoor Temperature	°C		-30	21(DR)	/ 15(WB) ~ 32(320	J-/	
O :- ''	Cooling	Indoor Temperature	°C			21,00/	-5(DB) ~ 52(
Operation Range		Outdoor Temperature	°C				15(DB) ~ 27(
	Heating	Indoor Temperature	°C				-20(WB) ~ 15				
			L								

GENERAL DATA

MS(D) Model (STANDARD)

		Model			10	
				RAM-20MS(D)	RAM-22MS(D)	RAM-24MS(D)
		Power		3 phase 4 wire, 220	oV 60Hz MS(D): 3 pha	se 4 wire: 360V 60Hz
	Outer Dimens	ion (WxHxD)	mm	1,	600 x 1,675 x 765	
Pa	ckaged Dimen	sion (WxHxD)	mm	1,	640 x 1,780 x 805	
	Cooling	g Capacity	kW	56.0	61.5	67.0
	Cooling Capa	city (Middle)	kW	25.8	28.9	31.5
	Heating	g Capacity	kW	63.0	64	77.5
		Power Consumption	kW	19.39	21.83	23.96
		Power Consumption (Middle)	kW	4.97	5.52	6.02
	Cooling	Running Current	А	32.7	36.1	39.6
Free Blow		CSPF	Wh/Wh	5.05	5.05	5.04
		Outdoor Unit CSPF	Wh/Wh	5.34	5.49	5.58
		Power Consumption Level	_	1	1	1
	Heating	Power Consumption	kW	19.49	21.36	23.88
	1.1044.119	Running Current	А	32.90	35.3	39.40
		Power Consumption	kW	23.21	24.48	26.23
		Power Consumption (Middle)	kW	6.15	6.79	7.61
	Cooling	Running Current	А	39.2	40.4	43.3
Ducted		CSPF	Wh/Wh	4.12	4.21	4.15
		Outdoor Unit CSPF	Wh/Wh	4.35	4.72	4.84
	Heating	Power Consumption	kW	22.1	23.50	26
	Heating	Running Current	А	37.3	38.8	42.9
	Pow	er Factor	%	90	90	90
	Startin	g Current	А		20	•
		Noise	dB(A)	62	63	65
	Compresso	r Output (pole)	kW		6.3 (6) x 2	
	Oil Heater C	Output x Q'ty	W		37.3 × 6	
Cooling /	R410A Char	ge	kg	11.3 11.3		11.6
Heating System	Refrigerant	Oil (charge)	L	FVC68D (8.4) FVC68D (8.4)		FVC68D (8.4)
	Expansion D)evice	-	Electro	nic Expansion Valve	•
	Cooling / H	eating Shift Device	-		4 Way Valve	
	Fan Type x	Q'ty	<u> </u> -	Propelle	er Fan (3 blade) x 2	
Fan System	Air Flow Ra	te	m ³ /min	32	29	348
	Motor Outpo	ut (pole)	kW	0.75 (8) × 2	0.75 (8) × 2	0.75 (8) x 2
	Power Circl	e Fuse	А		50	
Protection Device	Operation C	ircle Fuse	A		5	
Device	High Pressu	re Cutting	Мра		4.15	
Gas Pipe		mm	Ф 28.6	Ф 28.6	Ф 28.6	
Piping	Liquid Pipe		mm	Ф 15.88	Ф 15.88	Ф 15.88
	-	Weight	kg	364	364	365
		Outdoor Temperature	°C	21(DB) / 15(WB) ~ 32(DB) / ;	
Operation	Cooling	Indoor Temperature	°C		-5(DB) ~ 52(DB)	
operation.	$\overline{}$					
Range		Outdoor Temperature	°C		15(DB) ~ 27(DB)	

MS(D) Model (STANDARD)

	ı	Model							
				RAM-12MS(D) RAM-14MS(D)	RAM-12MS(D) RAM-14MS(D)	RAM-12MS(D) RAM-18MS(D)	RAM-14MS(D) RAM-18MS(D)	RAM-16MS(D) RAM-18MS(D)	RAM-18MS(D) RAM-18MS(D)
		Power			MS: 3 phase 4 \	wire, 220V 60H	z MS(D): 3 pha	se 4 wire: 360V	60Hz
	Outer Dime	nsion (WxHxD)	mm		(2,180) × 1,675 × 765 (2,440) >				
	Cooling	Capacity	kW	73.5	78.5	83.5	90.0	95.0	100.0
	Cooling Cap	pacity (Middle)	kW	34.5	36.2	39.2	42.3	44.0	47.0
	Heating	Capacity	kW	82.5	87.5	93.5	101.0	106.0	112.0
		Power Consumption	kW	22.87	25.07	27.79	31.00	33.20	35.92
		Power Consumption (Middle)	kW	6.28	6.76	7.40	7.62	8.10	8.74
	Cooling	Running Current	А	38.6	42.3	46.9	52.3	56.0	60.6
Free Blow		CSPF	Wh/Wh	5.42	5.28	5.18	5.32	5.21	5.13
		Outdoor Unit CSPF	Wh/Wh	5.81	5.62	5.53	5.73	5.59	5.52
	I I a akira si	Power Consumption	kW	21.65	23.20	26.03	28.64	30.19	33.02
	Heating	Running Current	А	36.60	39.20	44.00	48.40	51.00	55.80
		Power Consumption	kW	25.2	28.29	31.35	34.85	37.94	41
		Power Consumption (Middle)	kW	7.46	8.26	8.86	9.48	10.28	10.88
	Cooling	Running Current	А	42.5	47.7	52.9	58.8	64	69.2
Ducted		CSPF	Wh/Wh	4.66	4.42	4.4	4.39	4.22	4.22
		Outdoor Unit CSPF	Wh/Wh	5.14	4.81	4.78	4.72	4.51	4.5
		Power Consumption	kW	23.31	25.32	27.32	30.69	32.7	34.7
	Heating	Running Current	A	39.3	42.7	46.1	51.8	55.2	58.6
	Power	<u>I</u> Factor	%	90	90	90	90	90	90
	Starting	Current	A	17	32	32	32	43	43
	Nois	se	dB(A)	63	63.5	64.5	65	65.5	66
	Compressor O	utput (pole)	kW	6.3(6) × 1 + 6.2 (6) × 1	6.3(6) x 1	6.3(6) x 1 + 6.3 (6) x 2	6.3(6) × 1 + 6.2 (6) × 2	6.3(6) x 2 + 6.3 (6) x 2	6.3(6) x 2 + 6.3 (6) x 2
	R410A Charge		kg	+ 6.3 (6) x 1	+ 6.3 (6) x 2	17.9	+ 6.3 (6) x 2	20.6	21.4
Cooling / Heating System	Refrigerant Oil	(charge)	L	FVC68D(12.9) FVC68D(13.9) FVC68D(14.8) FVC68D			3D(15.8)		
System	Expansion Dev		_	Electronic Expansion Valve					
	Cooling / Heat	ing Shift Device	_				ay Valve		
	Fan Type x Q'ty	У	_	Pro	opeller Fan (3 b	olade) x 3	Prope	eller Fan (3 Blac	le) x 4
Fan System	Air Flow Rate		m³/min	190+239	190 + 256	190 + 256	239 + 256	I	6 x 2
	Motor Output (pole)	kW	0.75(8) + 0.75 (8) x 2	0.75(8) + 0.75 (8) x 2	0.75(8) + 0.75 (8) x 2		0.75(8) x 2 + 0.75 (8) x 2	
	Power Circle F	Fuse	A	10.75 (0/ X 2	· 0.75 (07 X Z	. 0.75 (0/ X 2		0.75 (07 x 2	
Protection Device	Operation Circl	le Fuse	A			Refer to	each model		
	High Pressure Cutting		Мра						
	Gas Pipe		mm		Ф31.75		Ф31.75	Ф31.75	Ф38.1
Piping	Liquid Pipe		mm		Ф19.05		Ф19.05	Ф19.05	Ф19.05
	Weig	ght	kg	210 + 268	210 + 326	210 + 327	268 + 327	326 + 327	327 + 327
		Outdoor Temperature	°C		<u> </u>		/B) ~ 32(DB) / 2		
	Cooling	Indoor Temperature	°C				s) ~ 52(DB)		
Operation Range		Outdoor Temperature	°C				3) ~ 27(DB)		
	Heating	Indoor Temperature	°C				B) ~ 15(WB)		
		macor remperature	`	<u> </u>		20(W	_, _J\vv D/		

GENERAL DATA

MS(D) Model (STANDARD)

	1	Model					Ì		j	
				RAM-14MS(D) RAM-24MS(D)	RAM-18MS(D) RAM-22MS(D)	RAM-18MS(D) RAM-24MS(D)	RAM-22MS(D) RAM-22MS(D)	RAM-22MS(D) RAM-24MS(D)	RAM-24MS(D) RAM-24MS(D)	
		Power		MS:	MS: 3 phase 4 wire, 220V 60Hz MS(D): 3 phase 4 wire: 360V 60Hz					
	Outer Dime	nsion (WxHxD)	mm		(2,830) x 1,675 x 765 (3,220) x 1,675 x 765					
	Cooling	Capacity	kW	107.0	111.5	117.0	123.0	128.5	134.0	
	Cooling Cap	pacity (Middle)	kW	50.3	52.4	55.0	57.8	60.4	63.0	
	Heating	Capacity	kW	122.5	125.0	133.5	138.0	146.5	155.0	
		Power Consumption	kW	37.00	39.79	41.92	43.66	45.79	47.92	
		Power Consumption (Middle)	kW	9.27	9.89	10.39	11.04	11.54	12.04	
	Cooling	Running Current	А	61.6	66.4	69.9	72.2	75.7	79.2	
Free Blow		CSPF	Wh/Wh	5.22	5.09	5.08	5.05	5.05	5.04	
		Outdoor Unit CSPF	Wh/Wh	5.74	5.51	5.55	5.49	5.54	5.58	
	Heating	Power Consumption	kW	36.01	37.87	40.39	42.72	45.24	47.76	
	Heating	Running Current	А	59.90	63.20	67.30	70.60	74.70	78.80	
		Power Consumption	kW	40.58	44.98	46.73	48.96	50.71	52.46	
		Power Consumption (Middle)	kW	11.65	12.23	13.05	13.58	14.4	15.22	
	Cooling	Running Current	А	67.5	75	77.9	80.8	83.7	86.6	
Ducted		CSPF	Wh/Wh	4.31	4.22	4.18	4.21	4.18	4.15	
		Outdoor Unit CSPF	Wh/Wh	4.91	4.62	4.69	4.72	4.78	4.84	
	I I a a bisa a	Power Consumption	kW	39.34	40.85	43.35	47	49.5	52	
	Heating	Running Current	А	65.4	68.1	72.2	77.6	81.7	85.8	
	Power	Factor	%	90	90	90	90	90	90	
	Starting	Current	А	32	43	43	43	43	43	
	Nois	se	dB(A)	66.5	66	67	66	67	68	
	Compressor O	utput (pole)	kW	6.3 (6) x 1 + 6.3 (6) x 2	6.3 (6) x 2 + 6.3 (6) x 2	6.3 (6) x 2 + 6.3 (6) x 2	6.3 (6) x 2 + 6.3 (6) x 2	6.3 (6) x 2 + 6.3 (6) x 2	6.3 (6) x 2 + 6.3 (6) x 2	
	R410A Charge		kg	20.5	22	22.3	22.6	22.9	23.2	
Cooling / Heating System	Refrigerant Oil	(charge)	L	FVC68D (15.3)	FVC68D (16.3)	FVC68D (16.3)	FVC68D (16.8)	FVC68D (16.8)	FVC68D (16.8)	
	Expansion Dev	ice	_	Electronic Expansion Valve						
	Cooling / Heat	ing Shift Device	_			4 Way '	Valve			
	Fan Type x Q'ty	/	_			Propeller Fan (3 Blade) x 4			
Fan System	Air Flow Rate		m³/min	239 + 348	256 + 329	256+ 348	329 x 2	329 + 348	348 x 2	
	Motor Output (pole)	kW	0.75(8) x 2 + 0.75 (8) x 2	0.75(8) x 2 + 0.75 (8) x 2	0.75(8) x 2 + 0.75 (8) x 2	0.75 (8) x 2 + 0.75 (8) x 2	0.75 (8) x 2 + 0.75 (8) x 2	0.75 (8) x 2 + 0.75 (8) x 2	
	Power Circle F	use	А	7,0	7,0	70 111	70 111	70 111	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Protection Device	Operation Circl	e Fuse	А			Refer to each	n model			
High Pressure Cutting		Мра								
Gas Pipe			mm	Ф38.1	Ф38.1	Ф38.1	Ф38.1	Ф38.1	Ф38.1	
Piping Liquid Pipe n				Ф19.05	Ф19.05	Ф19.05	Ф19.05	Ф19.05	Ф19.05	
Weight kg				268 + 365	327 + 364	327 + 365	364 + 364	364 + 365	365 + 365	
	_	Outdoor Temperature	°C		21([)B) / 15(WB) ~ ;	1	3)		
	Cooling	Indoor Temperature	°C			-5(DB) ~ 52	(DB)			
Operation Range		Outdoor Temperature	°C			15(DB) ~ 27	(DB)			
	Heating	Indoor Temperature	°C			-20(WB) ~ 1	5(WB)			

MS(D) Model (STANDARD)

	,	Model					1			
				RAM-14MS(D) RAM-18MS(D) RAM-18MS(D)	RAM-16MS(D) RAM-18MS(D) RAM-18MS(D)	RAM-18MS(D) RAM-18MS(D) RAM-18MS(D)	RAM-14MS(D) RAM-18MS(D) RAM-24MS(D)	RAM-18MS(D) RAM-18MS(D) RAM-22MS(D)	RAM-18MS(D) RAM-18MS(D) RAM-24MS(D)	
		Power		MS: 3 phase 4 wire, 220V 60Hz MS(D): 3 phase 4 wire: 360V 60Hz						
	Outer Dime	nsion (WxHxD)	mm		(3,670) x 1,675	x 765		(4,060) × 1,675	x 765	
	Cooling	Capacity	kW	140.0	145.0	150.0	157.0	161.5	167.0	
	Cooling Cap	pacity (Middle)	kW	65.8	67.5	70.5	73.8	75.9	78.5	
	Heating	Capacity	kW	157.0	162.0	168.0	178.5	181.0	189.5	
		Power Consumption	kW	48.96	51.16	53.88	54.96	57.75	59.88	
		Power Consumption (Middle)	kW	11.99	12.47	13.11	13.64	14.26	14.76	
	Cooling	Running Current	А	82.6	86.3	90.9	91.9	96.7	100.2	
Free Blow		CSPF	Wh/Wh	5.25	5.18	5.13	5.19	5.10	5.10	
		Outdoor Unit CSPF	Wh/Wh	5.65	5.57	5.52	5.67	5.51	5.54	
	Heating	Power Consumption	kW	45.15	46.70	49.53	52.52	54.38	56.90	
	Heating	Running Current	А	76.30	78.90	83.70	87.80	91.10	95.20	
		Power Consumption	kW	55.35	58.44	61.5	61.08	65.48	67.23	
		Power Consumption (Middle)	kW	14.92	15.72	16.32	17.09	17.67	18.49	
	Cooling	Running Current	А	93.4	98.6	103.8	102.1	109.6	112.5	
Ducted		CSPF	Wh/Wh	4.33	4.22	4.22	4.28	4.22	4.19	
		Outdoor Unit CSPF	Wh/Wh	4.64	4.51	4.5	4.77	4.58	4.63	
	Llooting	Power Consumption	kW	48.04	50.05	52.05	56.69	58.2	60.7	
	Heating	Running Current	А	81.1	84.5	87.9	94.7	97.4	101.5	
	Power	Factor	%	90	90	90	90	90	90	
	Starting	Current	А	55	67	67	49	61	61	
	Nois	se	dB(A)	67	67.5	68	68	68	68.5	
	Compressor Output (pole)		kW	6.3 (6) x 1 + 6.3 (6) x 2 +6.3 (6) x 2	6.3 (6) x 2 + 6.3 (6) x 2 +6.3 (6) x 2	6.3 (6) x 2 + 6.3 (6) x 2 +6.3 (6) x 2	6.3 (6) + 6.3 (6) x 2 +6.3 (6) x 2	(6.3 (6) x 2) x 2 + 6.3 (6) x 2	(6.3 (6) x 2) x 2 + 6.3 (6) x 2	
Cooling / Heating	R410A Charge		kg	30.3	31.3	32.1	31.2	32.7	33	
System	Refrigerant Oil	(charge)	L	FVC68D (22.7) FVC68D (23.7) FVC68D (23.7) FVC68D (23.2) FVC68D (24.2) FVC6					FVC68D (24.2)	
	Expansion Dev	ice	_	Electronic Expansion Valve						
	Cooling / Heat	ing Shift Device	_			4 Wa	ay Valve			
	Fan Type x Q'ty	У	_			Propeller	Fan (3 Blade) x	6		
Fan System	Air Flow Rate		m³/min	239 + 256 x 2	256 x 3	256 x 3	239 + 256 + 348	256 + 256 + 329	256 + 256 + 348	
	Motor Output (pole)	kW	0.75 (8) x 2 + 0.75 (8) x 2 + 0.75 (8) x 2	0.75 (8) x 2 + 0.75 (8) x 2 + 0.75 (8) x 2	0.75 (8) x 2 + 0.75 (8) x 2 + 0.75 (8) x 2	0.75 (8) x 2 + 0.75 (8) x 2 + 0.75 (8) x 2	(0.75 (8) x 2) x 2 + 0.75 (8) x 2	(0.75 (8) x 2) x 2 + 0.75 (8) x 2	
	Power Circle F	-use	А							
Protection Device	Operation Circl	le Fuse	А]		Refer to	each model			
	High Pressure Cutting									
Piping	Gas Pipe		mm	Ф38.1	Ф38.1	Ф38.1	Ф44.45	Ф44.45	Ф44.45	
, iping	Liquid Pipe		mm	Ф19.05	Ф19.05	Ф19.05	Ф19.05	Ф19.05	Ф19.05	
	Weig	ght	kg	268 + 327 + 327	326 + 327 + 327	327 + 327 + 327	268 + 327 + 365	327 + 327 + 364	327 + 327 + 365	
	Cooling	Outdoor Temperature	°C			21(DB) / 15(W	B) ~ 32(DB) / 2	3(WB)		
Operation Range	3000119	Indoor Temperature	°C			-5(DB)	~ 52(DB)			
- Speration Range	Heating	Outdoor Temperature	°C			15(DB)	~ 27(DB)			
	- reading	Indoor Temperature	°C			-20(WE	8) ~ 15(WB)			

GENERAL DATA

MS(D) Model (STANDARD)

		dodol		L		İ	ı		
	r	Model		RAM-14MS(D) RAM-24MS(D) RAM-24MS(D)	RAM-18MS(D) RAM-22MS(D) RAM-24MS(D)	RAM-18MS(D) RAM-24MS(D) RAM-24MS(D)	RAM-22MS(D) RAM-22MS(D) RAM-24MS(D)	RAM-22MS(D) RAM-24MS(D) RAM-24MS(D)	RAM-24MS(D) RAM-24MS(D) RAM-24MS(D)
		Power		MS	S: 3 phase 4 wir	e, 220V 60Hz	MS(D): 3 phase	4 wire: 360V 6	OHz
	Outer Dimer	nsion (WxHxD)	mm		(4,450) × 1,675	× 765		(4,840) × 1,675 :	× 765
	Cooling	Capacity	kW	174.0	178.5	184.0	190.0	195.5	201.0
	Cooling Cap	pacity (Middle)	kW	81.8	83.9	86.5	89.3	91.9	94.5
	Heating	Capacity	kW	200.0	202.5	211.0	215.5	224.0	232.5
		Power Consumption	kW	60.96	63.75	65.88	67.62	69.75	71.88
		Power Consumption (Middle)	kW	15.29	15.91	16.41	17.06	17.56	18.06
	Cooling	Running Current	А	101.2	106.0	109.5	111.8	115.3	118.8
Free Blow		CSPF	Wh/Wh	5.15	5.07	5.07	5.05	5.04	5.04
		Outdoor Unit CSPF	Wh/Wh	5.68	5.53	5.56	5.52	5.55	5.58
		Power Consumption	kW	58.89	61.75	64.27	66.60	69.12	71.64
	Heating	Running Current	А	99.30	102.60	106.70	110.00	114.10	118.20
		Power Consumption	kW	66.81	71.21	72.96	75.19	76.94	78.69
		Power Consumption (Middle)	kW	19.26	19.84	20.66	21.19	22.01	22.83
	Cooling	Running Current	А	1110.8	118.3	121.2	124.1	127	129.9
Ducted		CSPF	Wh/Wh	4.25	4.19	4.17	4.19	4.17	4.15
		Outdoor Unit CSPF	Wh/Wh	4.89	4.7	4.75	4.76	4.8	4.84
		Power Consumption	kW	65.34	66.85	69.35	73	75.5	78
	Heating	Running Current	А	108.3	111	115.1	120.5	124.6	128.7
	Power	Factor	%	90	90	90	90	90	90
	Starting	Current	A	49	61	61	61	61	61
	Nois	se	dB(A)	69	68.5	69	68.5	69	70
	Compressor O	utput (pole)	kW	6.3 (6)	6.3 (6) x 2 + 6.3 (6) x 2	6.3 (6)	(6.3 (6) x 2) x 2	6.3 (6) x 2	(6.3 (6) x 2) x 3
	R410A Charge		kg	+ (6.3 (6) × 2) × 2 32.1	+ 6.3 (6) x 2 + 6.3 (6) x 2	+ (6.3 (6) x 2) x 2	+ 6.3 (6) x 2	+ (6.3 (6) x 2) x 2	34.8
Cooling / Heating System	Refrigerant Oil	(charge)	L	FVC68D (23.7)				FVC68D (25.2)	FVC68D (25.2)
System	Expansion Dev		_	FVC68D (23.7) FVC68D (24.7) FVC68D (24.7) FVC68D (25.2) FV					
	Cooling / Heat	ing Shift Device	_			4 Way Valve			
	Fan Type x Q'ty		_		Pro	peller Fan (3 Bl	ade) x 6		
Fan System	Air Flow Rate		m³/min	239 + 348 + 348	256 + 329 + 348	256 + 348 + 348	329 + 329 + 348	329 + 348 x 2	348 x 3
•	Motor Output (pole)	kW	0.75 (8) x 2 + (0.75 (8) x 2) x 2	0.75 (8) x 2 + 0.75 (8) x 2 + 0.75 (8) x 2	0.75 (8) x 2 + (0.75 (8) x 2) x 2		0.75 (8) x 2 + (0.75 (8) x 2) x 2	(0.75 (8) x 2) x 3
	Power Circle F	-	A	+ (0./5 (8) x 2) x 2	+ 0.75 (8) x 2	+ (0./5 (8) X 2) X 2	+ 0./5 (8) X 2	+ (0./5 (8) x 2) x 2	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Protection Device			A		Re	efer to each mo	odel		
Protection Device Operation Circle Fuse High Pressure Cutting			Мра	-	, re	5. 10 000111110			
Gas Pipe		mm	Ф44.45	Ф44.45	Ф44.45	Ф44.45	Ф44.45	Ф44.45	
Piping Liquid Pipe		mm	Ф19.05	Ф19.05	Ф19.05	Ф22.2	Ф2 2.2	Ф22.2	
	Weig	aht	kg					364 + 365 + 365	
	** 616	Outdoor Temperature	°C			/ 15(WB) ~ 32(D		303 305	3-0 300 300
	Cooling	Indoor Temperature	°C						
Operation Range						-5(DB) ~ 52(DB)			
	Heating	Outdoor Temperature	°C			15(DB) ~ 27(DB)			
		Indoor Temperature	°C		-	20(WB) ~ 15(W	B)		

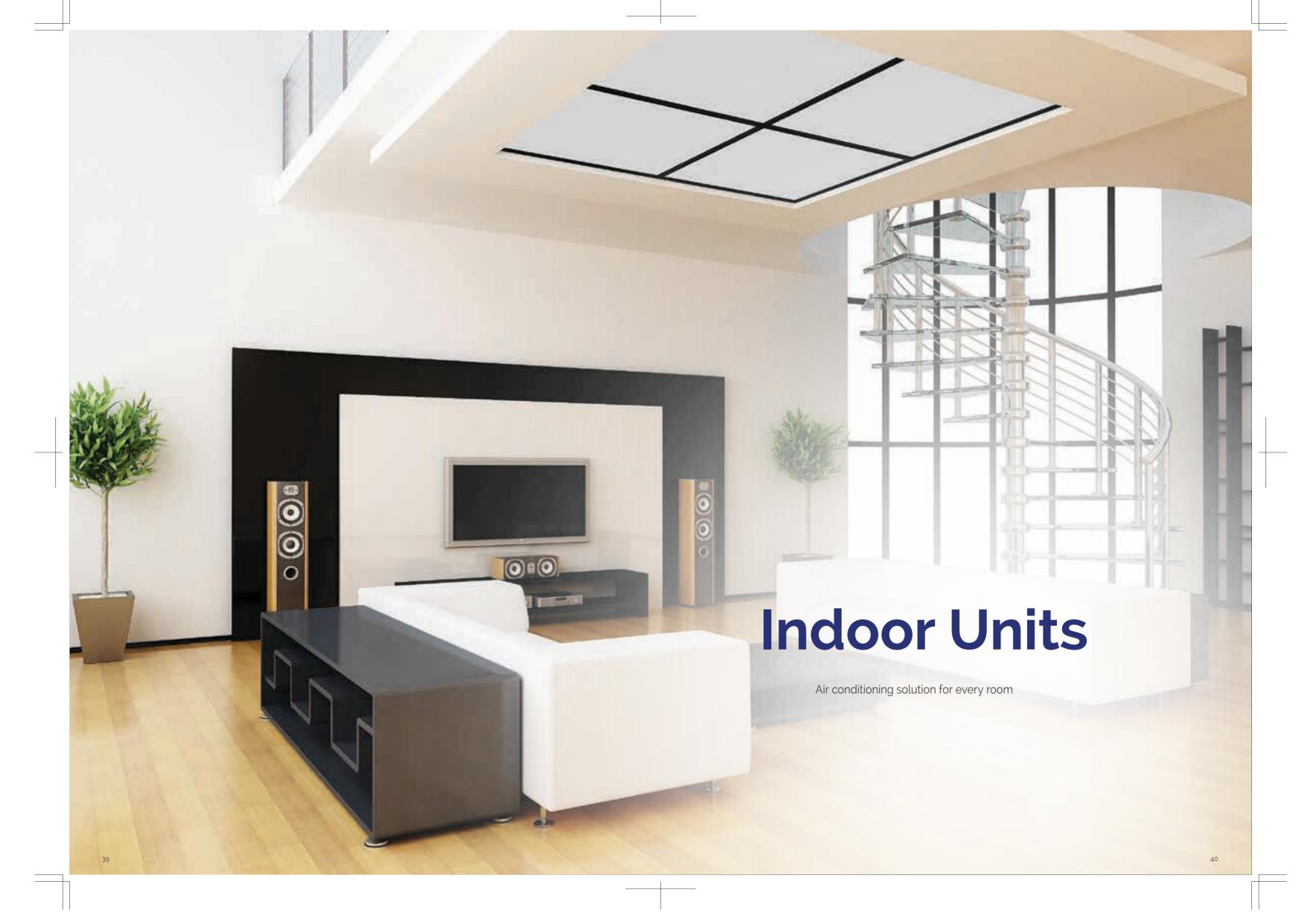
MS(D) Model (STANDARD)

		Model		i i		Ī	Marie Control		
		Model		RAM-14MS(D) RAM-18MS(D) RAM-18MS(D) RAM-24MS(D)	RAM-18MS(D) RAM-18MS(D) RAM-18MS(D) RAM-22MS(D)	RAM-18MS(D) RAM-18MS(D) RAM-18MS(D) RAM-24MS(D)	RAM-14MS(D) RAM-18MS(D) RAM-24MS(D) RAM-24MS(D)	RAM-16MS(D) RAM-18MS(D) RAM-24MS(D) RAM-24MS(D)	RAM-18MS(D) RAM-18MS(D) RAM-24MS(D) RAM-24MS(D)
		Power			MS: 3 phase 4	4 wire, 220V 60	Hz MS(D): 3 ph	ase 4 wire: 360\	/ 60Hz
	Outer Dimer	nsion (WxHxD)	mm		(5,290) x 1,675 >	765		(5,680) × 1,675)	765
	Cooling	Capacity	kW	207.0	211.5	217.0	224.0	229.0	234.0
	Cooling Cap	pacity (Middle)	kW	97.3	99.4	102.0	105.3	107.0	110.0
	Heating	Capacity	kW	234.5	237.0	245.5	256.0	261.0	267.0
		Power Consumption	kW	72.92	75.71	77.84	78.92	81.12	83.84
		Power Consumption (Middle)	kW	18.01	18.63	19.13	19.66	20.14	20.78
	Cooling	Running Current	А	122.2	127.0	130.5	131.5	135.2	139.8
Free Blow		CSPF	Wh/Wh	5.18	5.11	5.11	5.15	5.11	5.08
		Outdoor Unit CSPF	Wh/Wh	5.63	5.51	5.54	5.64	5.58	5.55
	Llooting	Power Consumption	kW	69.03	70.89	73.41	76.40	77.95	80.78
	Heating	Running Current	А	115.70	119.00	123.10	127.20	129.80	134.60
		Power Consumption	kW	81.58	85.98	87.73	87.31	90.4	93.46
		Power Consumption (Middle)	kW	22.53	23.11	23.93	24.7	25.5	26.1
	Cooling	Running Current	А	136.7	144.2	147.1	145.4	150.6	155.8
Ducted		CSPF	Wh/Wh	4.27	4.22	4.2	4.24	4.18	4.18
		Outdoor Unit CSPF	Wh/Wh	4.71	4.56	4.6	4.79	4.7	4.69
		Power Consumption	kW	74.04	75.55	78.05	82.69	84.7	86.7
	Heating	Running Current	А	124	126.7	130.8	137.6	141	144.4
	Power	I Factor	%	90	90	90	90	90	90
	Starting	Current	А	69	81	81	69	81	81
	Nois	se	dB(A)	69	69	69.5	70	70	70
	Compressor Ou	utput (pole)	kW	6.3 (6) + (6.3 (6) x 2) x 2 + 6.3 (6) x 2	(6.3 (6) x 2) x 3 + 6.3 (6) x 2	(6.3 (6) x 2) x 3 + 6.3 (6) x 2	6.3 (6) + 6.3 (6) x 2 + (6.3 (6) x 2) x2	6.3 (6) + 6.3 (6) x 2 + (6.3 (6) x 2) x2	(6.3 (6) x 2) x 2 + (6.3 (6) x 2) x 2
	R410A Charge		kg	+ 6.3 (6) x 2 41.9	43.4	43.7	+ (6.3 (6) x 2) x2 42.8	+ (6.3 (6) x 2) x2 43.8	44.6
Cooling / Heating System	Refrigerant Oil	(charge)	L	FVC68D (31.1)	FVC68D (32.1)	FVC68D (32.1)	FVC68D (31.6)	FVC68D (32.6)	FVC68D (32.6)
System	Expansion Devi	ice	_	Electronic Expansion Valve					
	Cooling / Heat	ing Shift Device	_	4 Way Valve					
	Fan Type x Q'ty	,	_				Fan (3 Blade) x	8	
Fan System	Air Flow Rate		m³/min	239 + 256 x 2 + 348	256 x 3 + 329	256 x 3 + 348	239 + 256 + 348 x 2	256 + 256 + 348 × 2	256 x 2 + 348 x 2
.,	Motor Output (pole)	kW	0.75 (2) x 2 + (0.75 (8) x) 2 + 0.75 (8) x 2	(0.75 (8) x 2) x 3	(0.75 (8) x 2) x 3	0.75 92) x 2 + 0.75 (2) x 2 + (0.75 (8) x 2) x 2	0.75 (2) x 2 + 0.75 (2) x 2 + (0.75 (8) x 2) x 2	(0.75 (8) x 2) x 2 + (0.75 (8) x 2) x 2
	Power Circle F		A	+ 0.75 (8) x 2	+ 0.75 (8) x 2	+ 0.75 (8) x 2	+ (0.75 (8) x 2) x 2	+ (0.75 (8) x 2) x 2	+ (0./5 (8) x 2) x 2
Protection Device	Operation Circle		A	<u> </u> 		Pefer to	each model		
	High Pressure (Мра	<u> </u> 		recorde	caciiiiiaaci		
	Gas Pipe		mm	Ф50.8	Ф50.8	Ф50.8	Ф50.8	Ф50.8	Ф50.8
Piping	Liquid Pipe		mm	Ф22.2	Ф22.2	Ф22.2	Ф22.2	Ф22.2	Ф22.2
Liquid Pipe Weight		kg					326 + 327 + 365 + 365		
	weig	Outdoor Temperature	°C	200 - 32/ - 32/ + 305	3-1 - 3-1 - 3-1 - 304				July - July - 305
	Cooling	Indoor Temperature	°C				/B) ~ 32(DB) / 2	3(MR)	
Operation Range		·) ~ 52(DB)		
	Heating	Outdoor Temperature	°C) ~ 27(DB)		
		Indoor Temperature	°C			-20(WI	B) ~ 15(WB)		

GENERAL DATA

MS(D) Model (STANDARD)

		M odel							
	,	nouet		RAM-14MS(D) RAM-24MS(D) RAM-24MS(D) RAM-24MS(D)	RAM-16MS(D) RAM-24MS(D) RAM-24MS(D) RAM-24MS(D)	RAM-18MS(D) RAM-24MS(D) RAM-24MS(D) RAM-24MS(D)	RAM-22MS(D) RAM-22MS(D) RAM-24MS(D) RAM-24MS(D)	RAM-22MS(D) RAM-24MS(D) RAM-24MS(D) RAM-24MS(D)	RAM-24MS(D) RAM-24MS(D) RAM-24MS(D) RAM-24MS(D)
		Power			MS: 3 phase 4	wire, 220V 60I	Hz MS(D): 3 pha	ase 4 wire: 360\	/ 60Hz
	Outer Dime	nsion (WxHxD)	mm	(6,	070) x 1,675 x 7	765	(6,	460) x 1,675 x 7	65
	Cooling	Capacity	kW	241.0	246.0	251.0	257.0	262.5	268.0
	Cooling Cap	pacity (Middle)	kW	113.3	115.0	118.0	120.8	123.4	126.0
	Heating	Capacity	kW	277.5	282.5	288.5	293.0	301.5	310.0
		Power Consumption	kW	84.92	87.12	89.84	91.58	93.71	95.84
		Power Consumption (Middle)	kW	21.31	21.79	22.43	23.08	23.58	24.08
	Cooling	Running Current	А	140.8	144.5	149.1	151.4	154.9	158.4
Free Blow		CSPF	Wh/Wh	5.12	5.08	5.06	5.05	5.04	5.04
		Outdoor Unit CSPF	Wh/Wh	5.65	5.60	5.57	5.54	5.56	5.58
		Power Consumption	kW	83.77	85.32	88.15	90.48	93.00	95.52
	Heating	Running Current	А	138.70	141.30	146.10	149.40	153.50	157.60
		Power Consumption	kW	93.04	96.13	99.19	101.42	103.17	104.92
Cooling		Power Consumption (Middle)	kW	26.87	27.67	28.27	28.8	29.62	30.44
	Cooling	Running Current	А	154.1	159.3	164.5	167.4	170.3	173.2
Ducted		CSPF	Wh/Wh	4.22	4.16	4.16	4.18	4.16	4.15
		Outdoor Unit CSPF	Wh/Wh	4.87	4.78	4.77	4.78	4.81	4.84
		Power Consumption	kW	91.34	93.35	95.5	99	101.5	104
	Heating	Running Current	А	151.2	154.6	158	163.4	167.5	171.6
	Power	Factor	%	90	90	90	90	90	90
	Starting	Current	A	69	81	81	81	81	81
	Nois	se	dB(A)	70.5	70.5	70.5	70	70.5	71
	Compressor O	utput (pole)	kW	6.3 (6) + (6.3 (6) x 2) x 3	6.3 (6) x 2 + (6.3 (6) x 2) x 3	6.3 (6) x 2 + (6.3 (6) x 2) x 3	(6.3 (6) x 2) x 2 + (6.3 (6) x 2) x 2	6.3 (6) x 2 + (6.3 (6) x 2) x 3	(6.3 (6) x 2) x 4
	R410A Charge		kg	43.7	44.7	45.5	45.8	46.1	46.4
Cooling / Heating System	Refrigerant Oil	(charge)	L	FVC68D (32.1)	FVC68D (33.1)	FVC68D (33.1)	FVC68D (33.6)	FVC68D (33.6)	FVC68D (33.6)
System	Expansion Dev	ice	_	Electronic Expansion Valve					
	Cooling / Heat	ing Shift Device	_			4 Way	•		
	Fan Type x Q't	<i>y</i>	_				n (3 Blade) x 8		
Fan System	Air Flow Rate		m³/min	239 + 348 × 3	256 + 348 × 3	256 + 348 × 3	329 x 2 + 348 x 2	329 + 348 × 3	348 × 4
	Motor Output (pole)	kW	0.75 (8) x 2 + (0.75 (8) x 2) x 3	0.75 (8) x 2 + (0.75 (8) x 2) x 3	0.75 (8) x 2 + (0.75 (8) x 2) x 3	(0.75 (8) x 2) x 2 + (0.75 (8) x 2) x 2	0.75 (8) x 2 + (0.75 (8) x 2) x 3	(0.75 (8) x 2) x 4
	Power Circle F	- Fuse	A	*(0./5(0/X2/X3	* (0./5 (6/ X 2/ X 3	*(0./5 (6/ X 2/ X 3	*(0./5 (6/ X 2/ X 2	+ (0.75 (6/ X 2/ X 3	
Protection Device	Operation Circl	le Fuse	A			Refer to e	each model		
	High Pressure	Cutting	Мра	-					
	Gas Pipe		mm	Ф50.8	Ф50.8	Ф50.8	Ф50.8	Ф50.8	Ф50.8
Piping Liquid Pipe		mm	Ф22.2	Ф22.2	Ф25.4	Ф25.4	Ф25.4	Ф25.4	
	Wei	ght	kg	268 + 365 + 365 + 365	326 + 365 + 365 + 365	327 + 365 + 365 + 365	364 + 364 + 365 + 365		365 + 365 + 365 + 365
		Outdoor Temperature	°C				3) ~ 32(DB) / 23(
	Cooling	Indoor Temperature	°C				- 52(DB)		
Operation Range		Outdoor Temperature	°C				~ 27(DB)		
	Heating					12(00)	2/100/		





DC MOTORS



FS Type

DC MOTORS



F Type

INSTANT COMFORT

Quiet Operation

- Compact size lowers approximately 24% of ventilation impedance, lowering noise levels during operation.
- Large diameter turbo fan enhances blowing efficiency without generating faster fan speed. The DC motor is also fitted with an anti-vibration rotary shaft.



Clean Air Quality

 Electronic dust collector with optional photocatalytic deodorizing filter and antibacterial purity filter is SEK certified



SEK Certification means the products is in compliance with standard set by JAFET to ensure quality and safety of product. (1)Antibacterial (2)Effective durability

Certification No. of JAFET 007SF00

• Antibacterial purity filter can inhibit breeding of bacteria and mold by neutralizing inorganic and organic antimicrobial materials.

(3)Processing security

Main Functions

	Electronic dust collector	•					
	Vertical moving decorative frame	•					
Optional parts	Antibacterial cleaning filter	•					
	High purity filter	•					
	Deodorizing filter	•					
	Total heat corresponding cross-linked operation	•					
	Centralized remote correspondence	•					
Control	Remote distance correspondence						
	Control of 1 remote control group	•					
	Operation of 2 remote controls	•					
	Wireless remote control correspondence	•					
	Alarm diagnosis function	•					
Maintaining construction	Filter cleaning display						
	Drain device	•					
	Regular operation	•					
	High ceiling correspondence	•					
Comfort	Dehumidification	•					
Comfort	3 sections of airflow adjustment	•					
	Airflow angle option	•					
	Auto swing	•					

Wide Angle Airflow Design

Wide angle airflow design extends the reach of comfort throughout a room so temperature is even.



EASY INSTALLATION

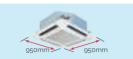
Flexibility of installation

- The size of installation opening is 860 to 910 mm that uses minimal ceiling area.
- Adjust unit height without having to remove decorative frame by adjusting separate angular plate.
- Refrigerant pipe and draining pipe are placed in different corners of the unit for easy access.
- Ceiling unit features square hanging holes for easy installation without changing piping outlet.
- The decorative frame can be rotated 360 degrees when installed.

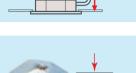
- Shifting acceleration by using remote control.
- For setting blowing direction, extra shielding plate has to be purchased.

Enhancing installing Freedom

 Decorative frames span a 950mm x 950mm area.



• High lift drain device for draining height up to 850mm.



 Lightweight unit body can be fixed in a narrow ceiling with a height of merely 238mm (when installing the decorative frame vertically, an extra 80mm clearance should be added).



 Blowing distance up to 4.2m (5 HP).



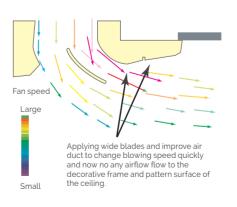
(unit: m)

		Number of outlet										
		1.0~2.0HP			2.5~3.0HP			4.0~6.0HP				
		4ways	3ways	2ways	4ways	3ways	2ways	4ways	3ways	2ways		
	Standard	2.7	3.0	3.3	2.7	3.0	3.3	3.2	3.6	4.0		
Height of ceiling	Accelerating	3.0	33	3-5	3.0	33	3-5	3.6	4.0	4.2		
	Accelerating	3.5	3.6	-	3.5	3.6	-	4.2	4.3	-		

EASY MAINTENANCE

Thoughtful Design for Easy Cleaning

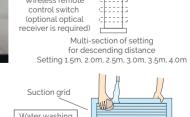
Wide blade design reduces dust build up. The blades are also no-tufting, so dust particles can be cleaned easily.



Vertical Blowing Grips for Easy Cleaning

Suction grid and filter can descend with a touch of the remote control for easy maintenance and cleaning (optional).



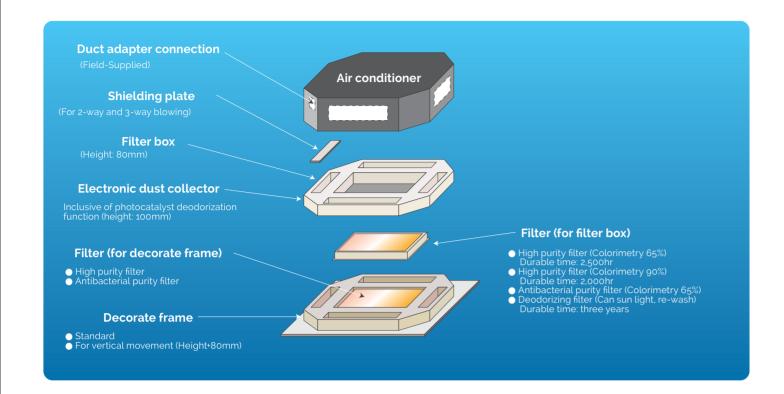


Rotate fixed portion of suction grid 90 degrees to remove and clean the suction grip.

Regular cleaning of filter each month can

OPTIONAL PARTS

Note: For below optional parts and their installation, please contact our sales.



General Data (FS Type)

Model		RCI-1.0 FSKDNQ	RCI-1.5 FSKDNQ	RCI-2.0 FSKDNQ	RCI-2.5 FSKDNQ	RCI-3.0 FSKDNQ	RCI-4.0 FSKDNQ	RCI-5.0 FSKDNQ	RCI-6.0 FSKDNQ
Power Supply		АС1Ф, 2	220~240V 50Hz, 2	220V 60Hz			АС1Ф, 240V 50Hz	, 220V 60Hz	
Nominal Cooling Capacity	kW	2.8	4.0	5.6	7.1	8.0	112	14.0	16.0
Nominal Heating Capacity		3.2	4.8	6.3	8.5	9.0	12.5	16.0	18.0
Air Flow	m³/min	15/13/11/9	21/17/14/11	22/17/14/11	27/23/18/14	27/23/18/14	37/31/24/20	37/33/26/21	37/35/28/22
Fan Motor Type (output)	W	57	57	57	57	57	127	127	127
Sound Pressure Level	dB(A)	33/30/28/27	35/31/30/27	37/32/30/27	42/36/32/28	42/36/32/28	48/43/39/33	48/45/40/35	48/46/41/37
Sound Power Level	dB(A)	52	53	55	56	57	64	64	65
Outer Dimensions (WxDxH)	mm	840x840x238	840x840x238	840x840x238	840x840x238	840x840x288	840x840x288	840x840x288	840x840x288
Net Weight	kg	20	21	21	22	26	26	26	26
Refrigerant				R410A (fact	ory-charged corr	osion-proof nitrog	en)		
Refrigerant Pipe Connection					Flare nut	S			
Refrigerant Pipe Size	mm(in)	Ø 6.35 (1/4)	Ø 6.35 (1/4)	Ø 6.35 (1/4)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ф 9.52 (3/8)	Ф 9.52 (3/8)
Northgoranter tpc 3/20		Ø 12.7 (1/4)	Ø 12.7 (1/2)	Ø 12.7 (1/2)	Ø15.88 (5/8)	Ø 15.88 (5/8)	Φ15.88 (5/8)	Ф15.88 (5/8)	Φ15.88 (5/8)
Condensate Drain Connection	mm	Ø 32(1)	Ø 32(1)	Ø 32(1)	Ø 32(1)	Ø 32(1)	Ø 32(1)	Φ32(1)	Φ 32(1)
Maximum Electricity Demand	А	5	5	5	5	5	5	5	5
Packaging Measurements	m³	0.26	0.26	0.26	0.26	0.31	0.31	0.31	0.31
Adaptable Air Panel Model					P-N23NA	.2			
Colour (Munsell code)				Ne	eutral White (4.56)	Y8.85/0.38)			
Outer Dimension (WxDxH)	mm	950x950x40	950x950x40	950x950x40	950x950x40	950x950x40	950x950x40	950x950x40	950x950x40
Net Weight	kg	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
Packaging Measurements	m³	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Remote Control					PC-ARF1				

Outer diameter (VP25) The data obtained is based on the operating conditions described in "Considerations".

1. The nominal cooling capacity is the combined capacity of the HITACHI standard split system, and is based on the JIS standard B8616. Cooling Operation Conditions

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

2. The sound pressure level is based on the 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.

(F Type)

	Model		RCI-28FT	RCI-36FR	RCI-40FH	RCI-45FM	RCI-50FF	RCI-56FN			
					AC10, 22	20V/60Hz					
Outer Dime	nsions (W x D x H)	mm			840 x 2	38 x 840					
		kW	2.8	3.6	4.0	4.5	5.0	5.6			
Sound	(Hi/Me/Lo)	dB(A)	30/28/27	30/28/27	31/30/27	31/30/27	32/30/27	32/30/27			
	(*SHi/Hi/Me/Lo)	ub(A)	33/30/28/27	34/30/28/27	35/31/30/27	35/31/30/27	37/32/30/27	37/32/30/27			
Fan	(Hi/Me/Lo)	m³/min	13/11/9	14/12/10	16/13/11	16/13/11	16/14/11	16/14/11			
	(*SHi/Hi/Me/Lo)	m 7 min	15/13/11/19	17/14/12/10	20/16/13/11	20/16/13/11	20/16/14/11	20/16/14/11			
Motor Outp	ut	kW	0.057								
Main	Gas Line	mm			Ф 12.7	(with nuts)					
Refrigerant Piping	Liquid Line	mm			Ф 6.35	(with nuts)					
Drain					V	P25					
Standard	Panel Model			P-AP160NA2							
			P-AP160NAU2								
Weight		kg		20 21							
Refrigerar					R4	10A					

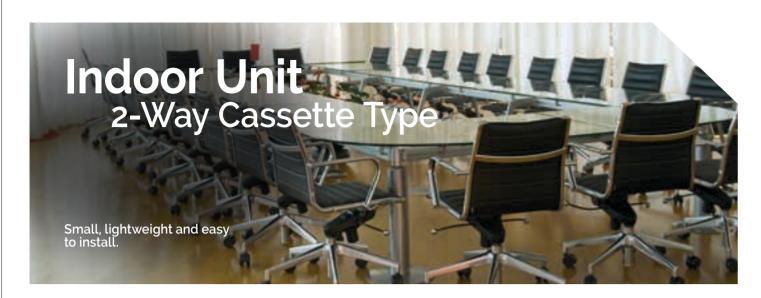
Model		RCI-63FS	F	RCI-71FE	RCI-80FL	RCI-goFK			
oly				AC1Ф, 2	20V/60Hz				
nsions (W x D x H)	mm	840 x 23	8 x 840		840 x 288 :	x 840			
	kW	6.3		7.1	8.0	9.0			
(Hi/Me/Lo)	dD(A)	36/31/27		36/32/28	36/32/28	38/39/29			
	GB(A)	42/36/31/27	42/36/32/28		42/36/32/28	42/38/33/29			
(Hi/Me/Lo)	37 .	20/16/13	20/17/14 26/20/17/14		22/19/15	23/19/16			
(*SHi/Hi/Me/Lo)	m-7 min	26/20/16/13			26/22/19/15	26/23/19/16			
ut	kW	0.057							
Gas Line	mm	Φ 12.7 (with nuts)			Φ 15.88 (with nuts)				
Liquid Line	mm	Φ 6.35 (with nuts)			Φ 9.53 (with nuts)				
				V	/P25				
Panel Model				P-AP	160NA2				
Rectractable Panel				P-AP1	P-AP160NAU2				
	kg	22	26						
				R4	110A				
	oly nsions (W x D x H) oling Capacity (Hi/Me/Lo) ('SHi/Hi/Me/Lo) ('SHi/Hi/Me/Lo) ut Gas Line Liquid Line	nsions (W x D x H) mm roling Capacity kW (Hi/Me/Lo) dB(A) ('SHi/Hi/Me/Lo) ('SHi/Hi/Me/Lo) ut kW Gas Line mm Liquid Line mm Panel Model ble Panel kg	nsions (W x D x H) mm 840 x 23 roling Capacity kW 6.3 (Hi/Me/Lo) dB(A) 36/31/27 (Hi/Me/Lo) 20/16/13 (*SHi/Hi/Me/Lo) 20/16/13 ut kW Gas Line mm Ф 12.7 (with nuts) Liquid Line mm Ф 6.35 (with nuts) Panel Model ble Panel	nsions (W x D x H) mm 840 x 238 x 840 roling Capacity kW 6.3 (Hi/Me/Lo) dB(A) 36/31/27 (SHi/Hi/Me/Lo) 20/16/13 (SHi/Hi/Me/Lo) m//min 26/20/16/13 24 Gas Line mm Ф 12.7 (with nuts) Liquid Line mm Ф 6.35 (with nuts) Panel Model ble Panel	AC10, 2 nsions (W x D x H) mm 840 x 238 x 840 noting Capacity kW 6.3 7.1 (Hi/Me/Lo) dB(A) 36/31/27 36/32/28 (*SHI/Hi/Me/Lo) 20/16/13 20/17/14 (*SHI/Hi/Me/Lo) 26/20/16/13 26/20/17/14 ut kW 0 Gas Line mm Ф 12.7 (with nuts) Liquid Line mm Ф 6.35 (with nuts) Panel Model P-AP kg 22	AC10, 220V/60Hz AC10,			

	Model		RCI-112FQ	RCI-125FY	RCI-140FZ	RCI-160FJ						
Power Supp	ply			AC1Ф, 2	20V/60Hz							
Outer Dime	ensions (W x D x H)	mm		840 x 288 x 840								
Nominal Co	ooling Capacity	kW	11.2	12.5	14.0	16.0						
Sound	(Hi/Me/Lo)	dB(A)	43/39/33	45/40/35	45/40/35	46/41/37						
Pressure	('SHi/Hi/Me/Lo)	GB(A)	48/43/39/33	48/45/40/35	48/45/40/35	48/46/41/37						
Fan	(Hi/Me/Lo)	37:	31/25/20	34/26/22	34/26/22	35/28/24						
Device	('SHi/Hi/Me/Lo)	m³/min	35/31/25/20	36/34/26/22	36/34/26/22	37/35/28/24						
Motor Out	tput	kW	0.127									
Main Refrigerant	Gas Line	mm		Ф 15.8	8 (with nuts)							
Piping	Liquid Line	mm		Ф 9.53	(with nuts)							
Drain				V	/P25							
Standard	Panel Model			P-AP	160NA2							
Rectractable Panel				P-AP1	160NAU2							
Weight		kg		26								
Refrigera				Rz	410A							

Notes: Data in Specification List is measured according to following conditions.

- Cooling : Indoor temperature is 27°C(DB) / 19.0°C(WB) Outdoor temperature is 35°C(DB)
- Piping Length 7.5mPiping Lift om
- Noise value is measured at 1.5m of distance away from a center portion of unit body.
- Noise value is measured in the anechoic chamber, so that reflected sound should be taken into consideration in the field.
- If using R407C or R22 refrigerant system at *3 remarked positions"*", please match with pipe at Φ19.05.

* With PC-ARFV or PC-LH3A

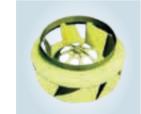




INSTANT COMFORT

Compact Turbo Fan with Low Noise

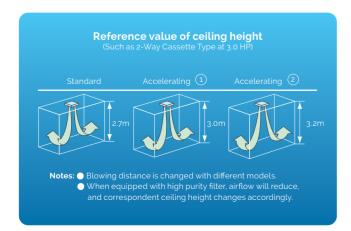
• Compact turbo fan with three dimensional flexible blades reduce noise levels (38 dB(A) for 2.5 HP models). CAE analysis is also applied to significantly decrease ventilation impedance of air flow.



• The newly developed AC chopper can control the rotation frequency to eliminate electromagnetic noise.

Equal Cooling in High-Ceiling **Spaces**

A built-in accelerating device can be accessed via remote control to adjust airflow depending on ceiling height.



Main Functions

	Vertical moving decorative frame	•					
Optional	Antibacterial cleaning filter	•					
parts	High purity filter	•					
	Deodorizing filter	•					
	Total heat corresponding cross-linked operation	•					
	Centralized remote correspondence	•					
Control	Remote distance correspondence	•					
	Control of 1 remote control group						
	Operation of 2 remote controls						
	Wireless remote control correspondence	•					
	Alarm diagnosis function						
Maintaining construction	Filter cleaning display						
	Drain device	•					
	Regular operation	•					
	High ceiling correspondence	•					
Comfort	Dehumidification	•					
Comfort	3 sections of airflow adjustment	•					
	Airflow angle option	•					
	Auto swing	•					

Clean Air Conditioning

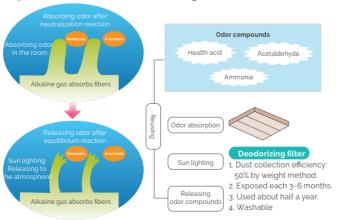
A fiber deodorizing filter (optional) made with special chemicals eliminate smoke and odor.

Deodorizing Filter

Electronic dust collector with photocatalytic deodorizing filter (optional) is antibacterial and SEK approved.

Diagram showing alkaline gas absorbs fibers

Recycled filter after sun light to clean air



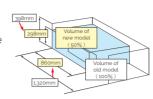
Antibacterial Purity Filter (SEK approved)

Double antimicrobial structure (Colorimetry 65%) inhibits breeding of mold and dust mite. It also eliminates airborne bacteria.

EASY INSTALLATION

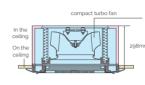
Lightweight for Easy Installation

The 2.5 HP model features a compact build, reducing 50% of its weight to become just 30 kg.



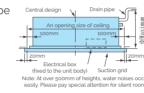
Easy installation for tight spaces

The compact turbo fan only has a height of 298 mm. The unit also features a general width of just 860 mm ideal for limited spaces.



Optimum Design Simplifies Installation

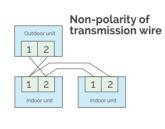
Access to the unit's indoor board and wiring system can be done by simply removing the suction grid. Piping height can be up to 850mm to enhance installation efficiency.



Simplified Wiring System

 Non-polar two-core transmission wires are utilized to avoid connection errors and abnormal transmissions.

In case of wrong connections between the power wire and transmission terminal block, fuse is shorted out to protect the system.

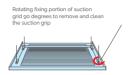


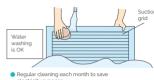
EASY MAINTENANCE

Vertical Blowing Grips for Easy Cleaning

The suction grid and filter can be removed by hand or by remote control for cleaning.





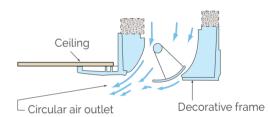


Considerate Design for Easy Cleaning

• Improved air duct design



- Improved suction grid profile that reduces dust collection
- Air outlet is designed with a special circular design to prevent dirt accumulation



General Data

Model		RCD-1.0FSN2	RCD-1.5FSN2	RCD-2.0FSN2	RCD-2.5FSN2	RCD-3.0FSN2	RCD-4.0FSN2	RCD-5.0FSN2		
Power Supply		AC1 0 , 220V/60Hz								
Nominal Cooling Capacity	kW	2.8	4.0	5.6	7.1	8.0	11.2	14.0		
Sound Pressure Level (Hi/Me/Lo)	dB(A)	34/32/30	35/32/30	35/32/30	38/34/31	38/34/31	40/36/33	43/40/46		
Outer Dimensions (HxWxD)	mm	298 x 860 x 620	298 x 860 x 620	298 x 860 x 620	298 x 860 x 620	298 x 860 x 620	298 x 1,420 x 620	298 x 1,420 x 620		
Net Weight	kg	27	27	27	30	30	48	48		
Refrigerant			R410A / R407C / R22 (Nitrogen-Charged for Corrosion-Resistance)							
Air Flow Rate (Hi/Me/Lo)	m³/min.(cfm)	10/9/8(353/318/282)	13/11/9 (459/388/318)	15/13/11 (530/459/388	19/16/14 (671/565/494	19/16/14 (671/565/494	29/24/21 (1,024/847/742	34/29/25(1,201/1,024/883		
Motor Output	W	35	35	35	55	55	35 X 2	55 X 2		
Connections				Flare-Nut (Connection (With Flar	e Nuts)				
Liquid Line/Gas Line	mm	Ф 6.35/12.7	Ф 6.35/12.7	Ф 6.35/15.88	Ф 9.52/15.88	Ф 9.52/15.88	Ф 9.52/15.88*3	Ф 9.52/15.88*3		
Condensate Drain			,		VP25					
Approximate Packing Measurement	mз	0.23	0.23	0.23	0.23	0.23	0.37	0.37		
Panel Model		P-N23DNA	P-N23DNA	P-N23DNA	P-N23DNA	P-N23DNA	P-N23DNA	P-N23DNA		
Color					Neutral White					
Dimensions (HxWxD)	mm	30 x 1,100x 710	30 x 1,100x 710	30 X 1,100X 710	30 X 1,100X 710	30 × 1,100× 710	30 x 1,660x 710	30 x 1,660x 710		
Net Weight	kg	6	6	6	6	6	8	8		
Approximate Packing Measurement	m³	0.10	0.10	0.10	0.10	0.10	0.15	0.15		

Notes: 1. The nominal cooling capacity is for the standard HITACHI split system, and is based on the JIS standard B8616.

Cooling Operation Conditions

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

- 2. The sound pressure level is based on following conditions.
- 1.5 Meters Beneath the Unit.Voltage of the power source for the indoor fan motor is 220V. In case of the power source of 240V, the sound pressure level increases by about 1dB. The above data was measured in an anechoic



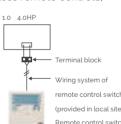


RPK-2.0, 2.5, 3.0 and 4.0 FSNH4M

QUICK COMFORT

Remote Controlled Comfort

- The optical receiver kit can control the wireless remote control while the wired remote control can operate the indoor unit.
- One remote control can simultaneously operate multiple indoor units (for wireless remote controls, PC-ALHZ is necessary)
- Extra terminal block is provided for wired connection to simplify local wiring systems



Main Functions

	External electronic expansion valve	•
	Vertical moving decorative frame	_
Optional	Antibacterial cleaning filter	_
	High purity filter	_
	Deodorizing filter	_
	Total heat corresponding cross-linked operation	_
	Centralized remote correspondence	•
Control	Remote distance correspondence	•
Control	Control of 1 remote control group	•
	Operation of 2 remote controls	•
	Wireless remote control correspondence	•
	'Alarm diagnosis function	•
Maintaining construction	Fitter cleaning display	•
onstruction	Drain device	_
	Regular operation	•
	High ceiling correspondence	_
	Dehumidification	•
Comfort	3 sections of airflow adjustment	•
	Airflow angle option	•
	Auto swing	•

EASY INSTALLATION

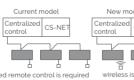
Compact Package

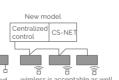
Width of front end of the unit body is only 780mm, so the unit body can be fixed between narrow beams, and the size of the unit body is decreased by 25% less than current model.

Centralized Controller for Enhanced Experience

Centralized control mode

allows you to control indoor units simultaneously using a single wireless control. usi





Model		RPK-1.0FSN4M	RPK-1.5FSN4M	RPK-2.0FSN4M	RPK-2.5FSN4M	RPK-30FSN4M	RPK-4.0FSN4M					
Indoor Unit Power Su	apply			AC10, 220-240V 50/	60Hz, 230V 50Hz							
Nominal Cooling Capacity	kW	2.8	4.0	5.6	7.1	8.0	11.2					
Nominal Cooling Capacity	kW	3.2	4.8	6.3	8.5	9	12.5					
Sound Pressure Level (Overall A Scale) (Hi2-Hi-Me-Lo)	dB	39-35-32-30	46-40-36-33	40-37-34-31	45-42-38-35	47-44-40-35	51-48-44-39					
Sound Pressure Level Overall A Scale) (Hi2-Hi-Me-Lo)	dB	53-49-47-45	58-54-50-47	55-53-50-47	60-58-54-51	63-60-56-51	65-64-60-54					
Outer Dimensions Height		300 (11-13/16)	300 (11-13/16)	300 (11-13/16)	300 (11-13/16)	300 (11-13/16)	300 (11-13/16)					
Width	mm (in.)	790 (31-7/64)	900 (35-7/16)	1100 (43-5/16)	1100 (43-5/16)	1100 (43-5/16)	1100 (43-5/16)					
Depth	mm (in.)	230 (9-1/16)	230 (9-1/16)	260 (10-1/4)	260 (10-1/4)	260 (10-1/4)	260 (10-1/4)					
	Kg (lbs.)	10 22	11 24	14.5 32	15 33	15 33	15 33					
Refrigerant				R4	10A	,						
ndoor Fan Air Flow Rate Hi2-Hi-Me-Lo)	m³/min. (cfm)	10-8-7-6.5 353-283-247-230	14-11-9-7.5 495-389-318-265	14.5-13-11-9.5 512-459-388-335	18.5-16.5-14-12 653-582-494-423	20-17.5-15.5-12.5 706-618-547-441	23-20-17.5-14.5 812-706-618-512					
Motor	W	38	38	38	38	38	38					
				Flare-Nut Connectio								
Refrigerant Piping Liquid Line		6.35 1/4	3.35 1/4	6.35 1/4	9.52 3/8	9.52 3/8	9.52 3/8					
Gas Line	mm (in.)	12.7 1/2	12.7 1/2	12.7 1/2	15.88 5/8	15.88 5/8	15.88 5/8					
		VP16	VP16	VP16	VP16	VP16	VP16					
Approximate	m³	0.09	0.11	0.14	0.14	0.14	0.14					





FS Type

QUICK COMFORT



N Type

Low Noise Levels 36dB(A) (2.5HP) (FS Type)

- Computational airflow analysis techniques are utilized to decrease ventilation impedance in each indoor unit.
- Noise value of 2.5 HP models are well along 36 dB(A), while 2 HP models are at 35 dB(A). Ideal for small spaces and enclosed rooms.

High quality air conditioning and more clean

Model	Returning box	Applicable filter
RPI-22~90N	Equipped	Silver nanoparticles anion filter (equipped) Durable filter (optional part)
RPI-112~160N	Equipped	High purity filter (optional part) Durable filter (optional part)

Note: For optional parts, please see P.56

EASY INSTALLATION

Static pressure setting for indoor unit

Static setting (low, standard and high) for the indoor unit is available after construction via remote control based on the application of air duct on local site.

Main Functions

	Vertical moving decorative frame	_
	Antibacterial cleaning filter	_
Optional	High purity filter	•
parts	Durable filter	•
	Deodorizing filter	-
	Total heat corresponding cross-linked operation	•
	Centralized remote correspondence	•
Control	Remote distance correspondence	•
	Control of 1 remote control group	•
	Operation of 2 remote controls	•
	Wireless remote control correspondence	•
	Alarm diagnosis function	•
Maintaining construction	Filter cleaning display	•
	"Drain device (optional part)	_
	Regular operation	•
	High ceiling correspondence	_
Comfort	Dehumidification	•
	*6 sections of airflow adjustments	•
	3 sections of airflow adjustment	•
	Airflow angle option	_
	Auto swing	_

Notes: "** Only for matching with high-performance wired remote control switch (PC-ARFV)

Notes: "**" RPI-0.8-1.5FSN2 is built-in standard equipment.



For under and back air returning (Only for RPI-22NC~90NK)





Back air returning

Under air returning

EASY INSTALLATION

Lightweight

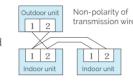
Because of its light weight, the unit can be set upward and be fixed easily on the ceiling.

Compact Design to Save Space

With the compact design, the area for installation is reduced hence saving material for the construction of the air duct. 4.0 HP - For inlet side: Height 306 mm x Width 833 mm (80% of old model) – For outlet side: Height 220 mm x Width 803 mm (75% of old model)

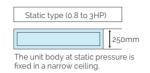
Simplified Wiring System

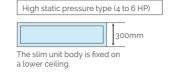
Non-polar two-core transmission wires are utilized to avoid connection errors and abnormal transmissions.



Slim Body and High Hydrostatic Pressure

Unit height at high static pressure is only at 300 mm while unit body a static pressure is 250 mm.



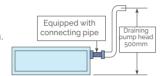


Lower Hanging Position

Lowered hanging position 100 mm above the body makes installation easier for 4 to 6 HP models.

Drain Device (Optional)

A high lift drain device is produced to expand a lift draining range up to 500 mm.



General Data (FSNQH TYPE)

Model		RPI-0.8 FSNQH	RPI-1.0 FSNQH	RPI-1.3 FSNQH	RPI-1.5 FSNQH	RPI-1.8 FSNQH	RPI-2.0 FSNQH	RPI-2.3 FSNQH	RPI-2.5 FSNQH	RPI-3.0 FSNQH	RPI-3.3 FSNQH	RPI-4.0 FSNQH	RPI-5.0 FSNQH	RPI-6.0 FSNQH	RPI-8.0 FSNQ	RPI-10.0 FSNQ	
Power Supply							АС1Ф,	220V/60H	łz							АС3Ф. 380V~415V/60Hz	
	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	
Sound Pressure Level (Hi/Me/Lo)	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	
	mm	650x720x270	650x720x270	650x720x270	650x720x270	900x720x270	900x720x270	900x720x270	900x720x270	900x800x350	900x800x350	900x800x350	1,300x800 x350	1,300x800 x350	1,060x1,120 x470	1,250x1,120 x470	
Net Weight	kg	26	26	26	26	35	35	35	35	46	46	46	58	58	85	95	
		(57)	(57)	(57)	(57)	(77)	(77)	(77)	(77)	(101)	(101)	(101)	(128)	(128)	(211)	(238)	
Refrigerant			R410A (Nitrogen-charged for Corrosion-resistance)														
Air Flow Rate (Hi/Me/Lo)	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 Output	W	35	35	60	60	75	75	75	75	120	120	120	200	280	650	900	
Connections Refrigerant Piping						Flare-nu	ıt Connect	ion (with F	lare Nuts)						Brazing		
Liquid Line	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	
	(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)	
GasLine	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	
Gaseliie		(1/2)	(1/2)	(1/2)	(1/2)	(5/8)	(5/8)	(5/8)	(5/8)	(5/8)	(5/8)	(5/8)	(5/8)	(5/8)	(3/4)	(7/8)	
Condensate Drain			VP25 (Outer Diameter Ф32)														
External Static Pressure	Pa	50(80)	50(80)	50(80)	50(80)	50(80)	50(80)	50(80)	50(80)	120(90)	120(90)	120(90)	120(90)	120(90)	180	180	
Approximate Packing Measurement	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	1.08	

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

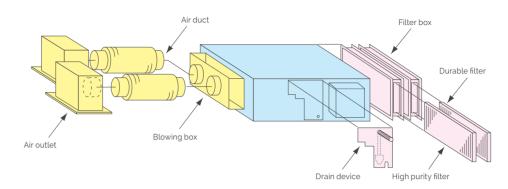
- Notes: The nominal cooling capacity is based on the following conditions: The sound pressure level is based on the following conditions. 1.5m beneath the unit. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.
 - When bottom air inlet is adopted, sound pressure will increase according to factors such as installation mode and the room structure.
 - The data for external pressure indicates standard pressure setting values when air filter is not used.
 - The figures between brackets [] are unique data for the models with metallic fan and fan casing. All models with capacity from 3.0 to 10HP are equipped with metallic fan and fan casing.

OPTIONAL PARTS

Creating high quality air-conditioning

Extra parts such as high purity filter and drain device are available.

Connection diagram of optional parts



Note: Remarked by pink color is optional part, and remarked by yellow color is standard part prepared in field.

(F Type)

	Model		RPI-22FC	RPI-28FT	RPI-36FR	RPI-45FM	RPI-50FF	RPI-56FN	RPI-63FS	RPI-71FE	RPI-80FL	RPI-goFK
Power Supp							AC1Ф, 220	V/60Hz				
Outer Dimensions (WxDxH) mm 620 x250 x550 620 x250 x550 940 x250 x550									1,130x250x550	1,130×250×550	1,130×250×550	
Nominal C	ooling Capacity	kW	22	2.8	3.6	4.5	5.0	5.6	6.3	7.1	8	9
Sound Pres	sure Level (Hi/Me/Lo)	dB(A)	31/30/27	31/30/27	31/30/26	31/30/27	32/31/27	32/31/27	33/32/30	33/32/30	34/33/30	34/33/30
	Static Pressure (High / Standard/ Low)	Pa	(50)x2/30/10/5	(50)x2/30/10/5	(70)x2/40/10/5	(70)x2/40/10/5	(70)x2/40/10/5	(70)x2/40/10/5	70/(40)x2/10/5	70/(40)x2/10/5	70/(40)x2/10/5	70/(40)x2/10/5
Fan Device	Air Flow (Hi/Me/Lo)	m³/min	8.8/8.5/7.5	8.8/8.5/7.5	11.5/11/9	13.5/13/11	14/13.5/12	14/13.5/12	17/16/14	17/16/14	18/17/15.5	18/17/15.5
	Motor Output	W	0.039	0.039	0.061	0.096	0.096	0.096	0.096	0.096	0.096	0.096
	Gas Line	mm	Φ12.7 (With nuts)	Φ12.7 (With nuts)	Φ12.7 (With nuts)	Ф12.7 (With nuts)	Ф15.88 (With nuts)	Φ15.88 (With nuts)	Ф15.88 (With nuts)	Ф15.88 (With nuts)	Ф15.88 (With nuts)	Φ15.88 (With nuts)
Refrigerant Piping	Liquid Line	mm	Φ6.35 (With nuts)	Φ6.35 (With nuts)	Φ9.53 (With nuts)	Φ9.53 (With nuts)	Φ9.53 (With nuts)	Φ9.53 (With nuts)				
Condensate Drain			3/4° MPT	3/4° MPT	3/4° MPT	3/4" MPT	3/4° MPT	3/4" MPT	3/4° MPT	3/4" MPT	3/4" MPT	3/4" MPT
Net Weight		kg	24	24	28	33	33	33	37	37	37	37
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A

	Model		RPI-112FQ	RPI-125FY	RPI-140FZ	RPI-160FJ					
				AС1Ф, 220V/60Hz							
Outer Dime	ensions (WxDxH)	mm	940x350x800	1,300x350x800	1,300x350x800	1,300x350x800					
Nominal C	Cooling Capacity	kW	11.2	12.5	14	16					
Sound Pres	sure Level (Hi/Me/Lo)	dB(A)	35/32/28x1	40/38/34x1	40/38/34x1	41/39/35x1					
	Static Pressure (High / Standard/ Low)	Pa	150/50/10	150/50/10	150/50/10	150/50/10					
Fan Device	Air Flow (Hi/Me/Lo)	m³/min	27/23/19x1	37/33/26x1	37/33/26x1	39/36/30x1					
	Motor Output	W	0.25	0.25	0.25	0.25					
Main Refrigerant	Gas Line	mm	Φ15.88 (With nuts)	Ф15.88 (With nuts)	Ф15.88 (With nuts)	Ф15.88 (With nuts)					
Piping	Liquid Line	mm	Φ9.53 (With nuts)	Φ9.53 (With nuts)	Φ9.53 (With nuts)	Φ9.53 (With nuts)					
Condensate	e Drain		3/4" MPT	3/4" MPT	3/4" MPT	3/4" MPT					
Net Weight		kg	47	58	58	58					
			R410A	R410A	R410A	R410A					

- $\begin{tabular}{ll} \textbf{Notes:} Data in Specification List is measured according to following conditions. \\ \bullet Cooling: Indoor temperature is $27^{\circ}C(DB) / 19.0^{\circ}C(WB)$ Outdoor temperature is $35^{\circ}C(DB)$ Outdoor temperature is 3
 - Piping Length: 7.5m Piping Lift : 0m
 - Noise value is measured at 1.5m of distance away from a center portion of unit body.
- A noise value is measured in a standard state of external static pressure, air is blown in back side, and filter is not closed the unit body. If downward blowing air is fixed, noise value is raised to 5dB. If settings between external static pressure and unit body are not different, noise value may be increased.
- Noise value is measured in the silent room, noise value of local location is raised by installation environment and reflected noise.
- Static pressure is set in a standard state while shipment.
- If using R407C or R22 refrigerant system at *3 remarked positions"*", please match with pipe at Φ 19.05.





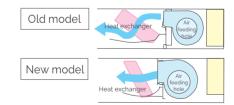
Main Functions

	Vertical moving decorative frame	_
Optional parts	Antibacterial cleaning filter	_
parts	High purity filter	•
	Deodorizing filter	_
	Total heat corresponding cross-linked operation	•
	Centralized remote correspondence	•
Control	Remote distance correspondence	•
	Control of 1 remote control group	•
	Operation of 2 remote controls	•
	Wireless remote control correspondence	•
	Alarm diagnosis function	•
Maintaining construction	Filter cleaning display	•
	Drain device (optional parts)	•
	Regular operation	•
	High ceiling correspondence	_
Comfort	Dehumidification	•
	3 sections of airflow adjustment	•
	Airflow angle option	-
	Auto swing	•

INSTANT COMFORT

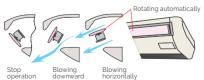
New Technology, Low Vibration, Low Noise

Large fan diameter improves ventilation efficiency, decreasing noise and vibrations greatly.



Large circular air outlet and automatic rotating device

The indoor unit features a large circular air outlet and an automatic rotating device to swing the blowing plate vertically. Upon stopping operation, the blowing plate automatically closes.

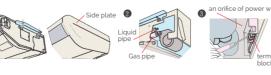


EASY INSTALLATION

Efficient Installation and Maintenance

30% faster installation time than old model.

- The screw bolt is placed on one side of the indoor unit which makes adjusting the height convenient.
 The screw bolt is concealed into the side cover to enhance aesthetic appearance.
- 2. Accelerating installation time of the refrigerant pipe, and putting a protective cover that is open on one side for locking the indoor unit easily. Installation time for refrigerant pipe is cut short with an access through a protective cover on the side of the unit.
- 3. After wiring construction, the electric box should be left open to set and test operation.

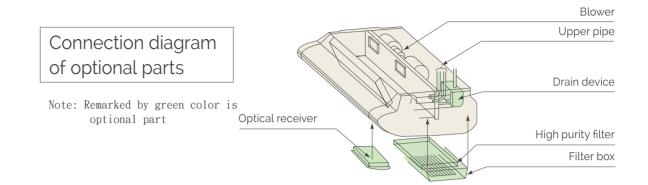


OPTIONAL PARTS

High Quality Additions

Extra accessories like high purity filter and drain device can be added

- An optical receiver can be used for wireless remote control for easy installation
- High purity filter can be added for cleaner comfort (extra filter box required)



General Data

Model		RPC-1.5FSN3	RPC-2.0FSN3	RPC-2.5FSN3	RPC-3.0FSN3	RPC-4.0FSN3	RPC-5.0FSN3	RPC-6.oFSN3			
Power Supply		AC1Ф, 220V/60Hz									
Nominal Cooling Capacity	kW	4.0	5.6	7.1	8.0	11.2	14.0	16.0			
Sound Pressure Level (Hi2/Hi/Me/Lo)	dB(A)	37/35/31/28	38/35/31/28	38/35/32/29	40/37/33/29	44/42/37/32	48/45/41/35	49/47/42/36			
Cabinet Color		Neutral White	Neutral White	Neutral White	Neutral White	Neutral White	Neutral White	Neutral White			
Dimensions (HxWxD)	mm	235x960x690	235x960x690	235x1,270x690	235x1,270x690	235x1,580x690	235x1,580x690	235x1,580x690			
Net Weight	kg	26	27	35	35	41	41	41			
Refrigerant		R410A	R410A	R410A	R410A	R410A	R410A	R410A			
Air Flow Rate	m³/min.	15/13/11/9	15/13/11/9	19/16.5/14/11.5	21/18.5/15.5/12.5	30/26.5/22/17	35/31/25.5/20	37/32.5/27/21			
(Hi2/Hi/Me/Lo)	(cfm)	(530/459/388/318)	(530/459/388/318)	(671/583/494/406)	(742/653/547/441)	(1,059/936/777/600)	(1,236/1,095/900/706)	(1,306/1,148/953/742)			
Motor Output	W	50	50	80	80	160	160	160			
Connections				Flare-Nu	t Connection (With F	Flare Nuts)					
Liquid Line/Gas Line		Φ6.35/Φ12.7	Φ6.35/Φ15.88	Ф9.52/Ф15.88	Ф9.52/Ф15.88	Ф9.52/Ф15.88	Ф9.52/Ф15.88	Ф9.52/Ф15.88			
Condensate Drain		VP20	VP20	VP20	VP20	VP20	VP20	VP20			
Approximate Packing Measurement	m³	0.23	0.23	0.31	0.31	0.38	0.38	0.38			

Notes: 1. The nominal cooling capacity is for the standard HITACHI split system, and is based on the JIS standard B8616. Cooling Operation Conditions

Indoor Air Inlet Temperature : 27°C DB (80°F DB) ; 19.0°C WB (66.2°F WB)

Outdoor Air Inlet Temperature : 35 $^{\circ}$ C DB (95 $^{\circ}$ F DB) Piping Length : 7.5m Piping Lift : 0m

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





QUICK COMFORT

Energy Efficiency

It uses minimal electricity to achieve maximum cooling and regulates a constant comfortable temperature for energy efficiency.

Power Saving

Ideal for office spaces and shops that have extended operating hours.

AION Filter

The indoor unit is equipped with high efficiency AION Air Filter Net that filters out germs and allergens such as dust, pollen and fungi.

EASY INSTALLATION

Compact size

General Data

Mode	ι		RPS-140AN			
Power Supply	Power Supply		AC1Ф,230V/60Hz			
Outer Dimensions	(WxDxH)	mm	600 X 350 X 1,900			
Nominal Cooling	Capacity	kW	14.0			
Nominal Air Flow	Nominal Air Flow (Hi/Me/Lo)		32/28/24			
Fan Motor Output		kW x Q'ty	0.15X1			
Main Refrigerant	Gas Line	mm	Ф15.88			
Piping	Piping Liquid Line		Ф 9.53			
Net Weight	Net Weight		68			
Refrigerant			R410A			

Indoor Temperature: Maximum: 32°C (DB) / 23°C (WB) Minimum: 21°C (DB) / 15°C (WB)

(Slim)

The Hitachi Inverter unit is designed to suit your preference and features a compact build to minimize floor area. More space dedicated for you and your business.









Y Type

(High static pressure)

IMPROVE AIR QUALITY

Some buildings are constructed to block sunlight out but in turn reduces quality of air indoors. Poor air quality may in turn cause bad performance from workers and even potential health problems.

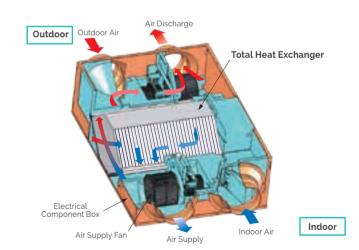


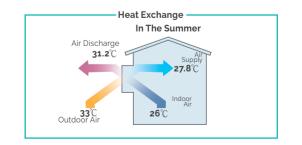


ENERGY SAVING VENTILATION TECHNOLOGY

To maintain fresh air quality, the Hitachi Total Heat Exchanger exhausts air from the outside and guides cool air inside to lower the load of air conditioners.

- 1. Recycle loss of heat to minimize cooling waste
- 2. Reduced heat load minimizes air conditioning load.
- 3. Humidity is controlled and balanced between indoor and outdoor conditions for ultimate comfort.
- 4. Exhaust and air feeding is simultaneous for stable air flow.
- 5. Air duct and total heat exchanger has soundproofing properties to prevent outside noise coming in.





HIGH PERFORMANCE HEAT EXCHANGER

The Hitachi total heat exchanger features an inverse exchange board and cross-flow thin film to insulate air between outdoors and indoors and stops warm air from coming in.

Flowing directions of hot air and cold air are opposite.



KPI-102Y/KPI-802Z~2002Z

Flowing directions of hot air and cold air are perpendicular

to each other or at a certain angle

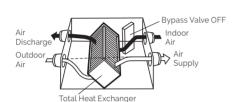
KPI-152Y~2002Y/KPI-152Z~652Z

AUTOMATIC VENTILATION MODE

The most suitable ventilation mode is automatically determined depending on the temperature conditions outdoors and indoors to save energy.

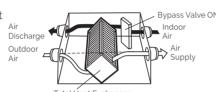
Total Heat Exchange Mode

Total heat exchange between outdoor and indoor conditions enhances indoor air quality by matching outdoor air temperature with room temperature.



Common Air Exchange Mode (Spring/Fall) (Only for 152 to 2002 type)

External air flows indoors for comfort



REMOTE CONTROL SETTING

Remote Control Function

The wired remote control can be used for the following functions:

- Turn the air conditioner and total heat exchanger on/off simultaneously
- Set individual operation setting for the total heat exchanger
- Set fan speed (Low to High)
- Set air exchange mode (Automatic / Total Heat Exchange / Common)
- Advance control for cooling and heating (30 min or 60 min delay start)
- On/Off Timer (from 30 minutes max of 24 hours)
- Enhance air flow (during Low and High operation)
- Check filter conditions

EASY INSTALLATION

Simplified Wiring System

Compact indoor unit can virtually fit in any narrow space.

Maintenance of parts Simplified Wiring System

Non-polar two-core transmission wires are utilized to avoid connection errors and abnormal transmissions

- Parts can be accessed through the service access panel on the side of the unit
- Unit can be installed upside down (for 152 to 2002 type only)

POWER SAVING

Fixed Total Heat Exchanger

Fixed total heat exchanging device achieves higher efficiency and saves more energy compared to the conventional rotating-wheel heat exchanger.

Positive and Negative Pressure Setting

Wind velocity indoors is set higher than exhaust velocity for positive indoor pressure. When wind velocity indoors is lower than exhaust velocity, negative pressure forms indoors.

Retained Heat Elimination

Remote control keeps 3 minutes of operation to eliminate retained heat during stop operation.

CO2 Concentration Sensor

With a CO2 sensor (field supplied), Co2 concentration in the room can be reduced by increasing ventilation hence a more refreshing experience.

CONTROL EXAMPLE OF THE TOTAL HEAT EXCHANGER

Individual Use	Driving system with air conditioner	CS-NET or centralized control system
Total Heat Exchanger Remote Control	Indoor Unit Total Heat Exchanger HEAD TOTAL HEAT Exchanger Remote Control	Indoor Unit Total Heat Exchanger Remote Control H-LINK Indoor Unit Total Heat Exchanger Remote Control Centralized Control System or CS-NET

General Data (Y Type)

Model of Total	Heat Excha	nger	KPI-102Y	KPI-152Y	KPI-252Y	KPI-352Y	KPI-502Y	KPI-652Y	KPI-802Y	KPI-1002Y	KPI-1502Y	KPI-2002Y
Power Supply				•		•	AC10, 22	:0V/60Hz			•	
Outer Dimension	s (WxDxH)		610x500x210	580x808x264	599x882x270	804x882x270	904x962x270	884x1,222x340	884x1,322x388	1,134X1,322X388	884x1,322x785	1,134x1,322x78
Air Flow			100	150	250	350	500	650	800	1,000	1,500	2,000
External Static Pr	essure	Pa	80	75	85	90	100	70	120	85	75	60
Heat Recovery	Cooling	%	55	63	63	66	62	62	65	65	65	65
	Heating	%	65	70	70	69	67	68	71	71	71	71
Temperature Effic	ciency	%	73.5	75	75	75	75	75	75	75	75	75
Sound Pressure I	_evel	dB(A)	30.5	26	27	31	33	35	38	38	41	41
Motor Output		W	35	10X2	20X2	40X2	60x2	180x2	180x2	180x2	180x4	180x4
Net Weight			20	25	29	37	43	64	71	83	165	189
	r of Air Duct		Φ75	Ф144	Ф144	Ф144	Ф194	Ф194	Ф242	Ф242	□650x280	□650x280

(Z Type) High static pressure

Model of Total	Heat Excha	nger	KPI-152Z	KPI-252Z	KPI-352Z	KPI-502Z	KPI-652Z	KPI-802Z	KPI-1002Z	KPI-1502Z	KPI-2002Z			
Power Supply				AC1 0 , 220V/60Hz										
Outer Dimension	s (WxDxH)	mm	599x882x270	804x882x270	904x962x270	884x1,222x340	884x1,322x388	834x1,126x388	1,216x1,129x388	834x1,126x776	1,216x1,129x776			
Air Flow		m³/h	150	250	350	500	650	800	1,000	1,500	2,000			
External Static Pressure		Pa	155	160	200	200	220	170	195	180	190			
Heat Recovery	Cooling	%	75	67	70	62	67	61	64	62	64			
Efficiency	Heating	%	76	73	73	69	73	67	72	68	72			
Temperature Effi	ciency	%	79	76	75	74	76	74	77	74	77			
Sound Pressure	Level	dB(A)	28	29	33	34	36	38.5	38.5	41.5	41.5			
Motor Output		W	20X2	40X2	60x2	180x2	180x2	200X2	200X2	200X4	200x4			
Net Weight		kg	29	37	43	64	71	60	73	140	163			
Connecting Diamete	er of Air Duct	mm	Ф144	Ф144	Ф194	Ф194	Ф242	Ф242	Ф242	□650x280	□650x280			

Notes:

- 1. General date is based on following conditions:
- Cooling:Indoor temperature is 27°C(DB)/20°C(WB) Outdoor temperature is 3 °C(DB)/29°C(WB)
- Heat recovery efficiency is measured at standard external static pressure and under ratio of 7:1 when outdoor side is against indoor side.
- Temperature efficiency: the average air-conditioning and heating.
- The test is in compliance with JID standard and is measured at 1.5m below a center of each of indoor units.
- 2. Noise value is measured in the silent room, noise value of local location is raised by Installing silencer box and silencer tube. installation environment and reflected noise.
- 3. Noise value is measured at external static pressure (standard static pressure) listed above. If external static pressure and standard static pressure are different, noise value may be raised.
- 4. Noise in air outlet is around 8-11dB, when position of the air outlet is close to the $\,$ unit body, the operating noises leaks out of air outlet via air duct, thereby making noise loudly. The larger air volume of unit model is, the louder noises make. If the indoor unit is fixed in silent space, such as classrooms or libraries, please have soundproofing construction, and some suggestions for soundproofing construction are listed as follows:
 - Having soundproofing construction of ceiling. Arranging air outlets evenly.
- around audio position.

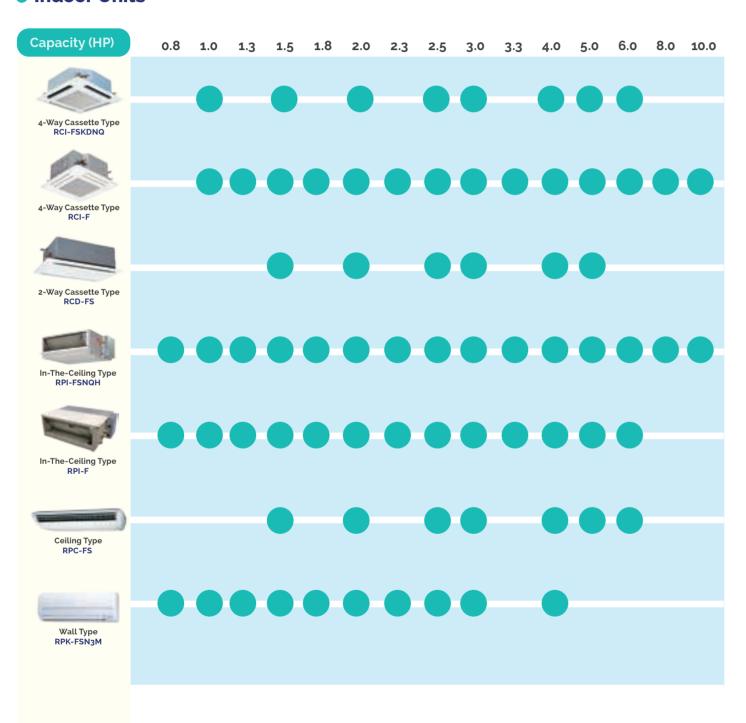
Wrapping soundproof material

Adjusting fixing position of unit body.

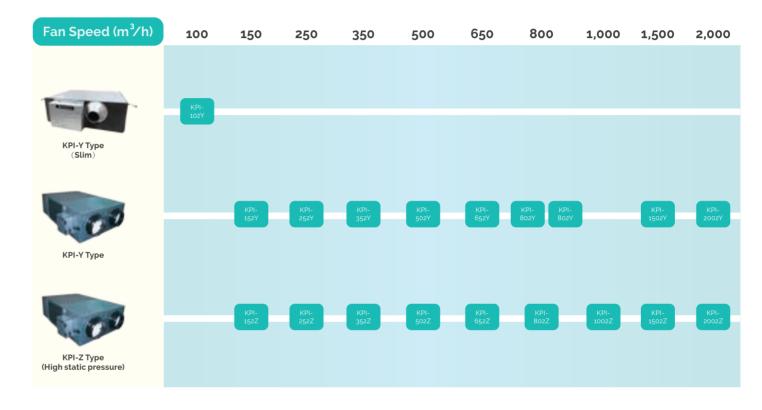
HITACHI Indoor Units

Full Range of Products

Indoor Units



• Total Heat Exchanger



LIST OF OPTIONAL PARTS

4-Way Cassette Type

NO	Optional Parts	Model	Applicable models	Notes	
1.	Vertical moving decorative frame	P-AP160NAU2	RCI-28FT~160FJ		
	Standard moving decorative frame	P-AP160NA2	RCI-1.0~5.0FSN2	Design for wide-angle airflow	
2.		P-N23NAT	RCI-28FT~160FJ		
	Standard cleaning filter	F-23L4	RCI-1.0~5.0FSKDNQ, RCI-28DT~160DJ	For replacing standard moving decorative frame	
4	Antibacterial cleaning filter	F-23L4-KS	RCI-1.0~2.5FSKDNQ, RCI-28DT~56DN		
4.		F-23L4-K	RCI-3.0~5.0FSKDNQ, RCI-63DS~160DJ	For Standard moving decorative frame	
	High purity filter (Colorimetry 65%)	F-23M4	RCI-1.0~2.5FSKDNQ, RCI-28DT~56DN		
5.		F-46M4	RCI-3.0~5.0FSKDNQ, RCI-63DS~160DJ	Use for matching with filter box	
	Antibacterial purity filter	F-23M4-K	RCI-1.0~2.5FSKDNQ, RCI-28DT~56DN		
6.	(Colorimetry 65%)	F-46M4-K	RCI-3.0~5.0FSKDNQ, RCI-63DS~160DJ	Use for matching with filter box	
	High purity filter (Colorimetry 90%)	F-23H4	RCI-1.0~2.5FSKDNQ, RCI-28DT~56DN		
7.	riigii punty littei (Cotolillieti y 90%)	F-46H4	RCI-3.0~5.0FSKDNQ, RCI-63DS~160DJ	Use for matching with filter box	
	Deodorizing filter	F-23L4-D	RCI-1.0~2.5FSKDNQ, RCI-28DT~56DN		
8.	Deodorizing filter	F-46L4-D	RCI-3.0~5.0FSKDNQ, RCI-63DS~160DJ	Use for matching with filter box	
9.	Filter box	B-23H4	RCI-1.0~5.0FSKDNQ, RCI-28DT~160DJ		
10.	Electronic dust collector	FE-2318S	RCI-1.0~2.5FSKDNQ, RCI-28DT~56DN		
		FE-3318	RCI-3.0~5.0FSKDNQ, RCI-63DS~160DJ	Deodorizing filter is included	
	Exchanger for Electronic dust collector	FE-23 8ESx1	RCI-1.0~2.5FSKDNQ, RCI-28DT~56DN	For replacing electronic dust collector	
11.	Exchanger for Electronic dust collector	FE-33I8ESx2	RCI-3.0~5.0FSKDNQ, RCI-63DS~160DJ		
12.	Shielding plate	PI-23LS5	RCI-1.0~5.0FSKDNQ, RCI-28DT~160DJ	For air outlets	

2-Way Cassette Type

NO	Optional Parts	Model	Applicable models	Notes	
	Standard moving decorative frame	P-N23DNA	RCD-1.0~3.0FSN2		
1.	Standard moving decorative frame	P-N46DNA	RCD-4.0~5.0FSN2		
	Standard cleaning filter	F-23LD3	RCD-1.0~3.0FSN2		
2.	Standard Cleaning litter	F-46LD3	RCD-4.0~5.0FSN2		
	Antibacterial cleaning filter	F-23LD4-K	RCD-1.0~3.0FSN2	For replacing standard moving decorative frame	
3.	Antibacterial cleaning filter	F-46LD4-K	RCD-4.0~5.0FSN2	To replacing standard moving decorative mame	
	High purity filter (Colorimetry 65%)	F-23MD4-P	RCD-1.0~3.0FSN2	For Standard moving decorative frame	
4.	riigii punty litter (Cotorinetty 05%)	F-46MD4-P	RCD-4.0~5.0FSN2	For Standard moving decorative frame	
	High purity filter (Colorimetry 65%)	F-23MD4	RCD-1.0~3.0FSN2	Use for matching with filter box	
5.	riigii punty litter (Cotorinetty 05%)	F-46MD4	RCD-4.0~5.0FSN2		
	Antibacterial purity filter	F-23MD4-K	RCD-1.0~3.0FSN2	Use for matching with filter box	
6.	(Colorimetry 65%)	F-46MD4-K	RCD-4.0~5.0FSN2	Ose for matching with litter box	
	High purity filter (Colorimetry 90%)	F-23HD4	RCD-1.0~3.0FSN2	Use for matching with filter box	
7.	riigii panty litter (Cotorinetty 90%)	F-46HD4	RCD-4.0~5.0FSN2	Ose for matching with filter box	
	Deodorizing filter	F-23LD4-D	RCD-1.0~3.0FSN2	Use for matching with filter box	
8.	Deodorizing litter	F-46LD4-D	RCD-4.0~5.0FSN2	Ose for matching with litter box	
	Filter box	B-23HD4	RCD-1.0~3.0FSN2		
9.	Titter box	B-46HD4	RCD-4.0~5.0FSN2		

In-the-Ceiling Type (N Type)

NO	Optional Parts	Model	Applicable Models	Notes	
	Durable filter	F-S14	RPI-22NC~28NT		
		F-S15	RPI-36NR~56NN		
1.		F-S16	RPI-63NS~90NK		
		F-S9	RPI-112NQ		
		F-S10	RPI-140NZ \ 160NJ		
2.	High purity filter (Colorimetry 65%)	F-34MI3	RPI-112NQ	Do not use with High purity filter	
۷.		F-46MI3	RPI-140NZ \ 160NJ		
3.	High purity filter (Colorimetry 90%)	F-34HI3	RPI-112NQ	- Use for matching with filter box	
3.		F-46HI3	RPI-140NZ \ 160NJ		
4	Filter box	B-34MI3	RPI-112NQ	Use for matching with filter box	
4.		B-46MI3	RPI-140NZ \ 160NJ	Ose for matching with litter box	
_	Drain device	DP-C1	RPI-22NC~90NK	- Built-in Installation	
5.		DUPI-162	RPI-112NQ~160NJ		

LIST OF OPTIONAL PARTS

Controlling System

NO	Part Name	Model	Function Description	
1.	Remote control switch	PC-AR	Individually or simultaneously (up to 16 items) controls indoor unit and monitoring LCD remote control.	
2.	High-performance wired remote control switch	PC-ARF	Individually or simultaneously (up to 16 items) controls indoor unit and monitoring LCD remote control.	
3.	Wired controller for Hotels	PC-ARH	Individually or simultaneously (up to 16 items) controls indoor unit and monitoring LCD remote control.	
4.	Wireless remote control	PC-LH3A	Obtains various controls in a wireless manner, so wiring is not required.	
	Optical receiver	PC-ALH	Receives wireless remote-control signal (applicable for 4-Way Cassette Type).	
		PC-ALHD	Receives wireless remote-control signal (applicable for 2-Way Cassette Type).	
5.		PC-ALHP	Receives wireless remote-control signal (applicable for Ceiling Type).	
		PC-ALHZ	Receives wireless remote-control signal (applicable for In-the-ceiling Type and Wall Type).	
6.	Centralized ON/OFF controller	PSC-A16RS	Individually or simultaneously operates 16 indoor units, and displays operation and fault of each indoor unit.	
7.	Central station	PSC-A64S	Controls up to 160 indoor units of 64 groups in 4 interval spaces, and individually or simultaneously operates each group, and displays operation and fault of each indoor unit.	
8.	Standard centralized controller	PSC-5s (H-LINK II Non-correspondence)	Controls up to 128 indoor units of 16 groups, and individually or simultaneously operates each group, and displays operation and fault of each indoor unit.	
9.	7 days timer	PSC-AIT	Matches with wired remote control and centralized controller to set daily operating schedule in a week, and sets three times of operation in a day.	
10.	Central station controller EZ	PSC-A64GT	Has 8.5-inch touch screen, controls up to 160 indoor units of 64 groups in 4 interval spaces, and individually or simultaneously operates each group, and displaying operation and fault of each indoor unit.	
11.	H-LINK relay	PSC-5HR	Relays more than 1,000 m of H-LINK wiring	
12.	Remote control interface	PSC-5RA	Output unit signal for monitoring host of building management	
13.	Central station controller DX DX management software	PSC-A128WX + PSC-AS2048WXB	Controls 160 indoor units via local area network, individually or simultaneously operates each indoor unit (including calculating use ratio of easy air conditioner).	
	Air conditioner control interface	HARC70-P1	Lonworks [®] for integrated management of BMS Building air conditioning system (less management point)	
		HC-A64BNP	BACnet [®] for integrated management of BMS Building air conditioning system	
14.		НС-А32МВ	MODbus for integrated management of BMS Building air conditioning system	
		HC-A8LAN	Ethernetnet [®] for integrated management of BMS Building air conditioning system	
		HARC-BX	Lonworks®for integrated management of BMS Building air conditioning system (more management point)	
15.	Shielded twist pair cable	-	Prevents operating error resulting from noises (specification: UL2990#18×2C+AEB)	

Others

NO	Part Name	Model	Applicable Model (for first multi-kit and uniform piping)	Notes	
1.	Multi-Kit (f Type)	E-NP282S	RAM-8~10MQ(D), RAM-125, RAM-140FPS(B)		
		E-NP452S	RAM-12~18MQ(D) RAM-200~270FPS(D)		
		E-NP692S	Modular 20~24MQ(D)		
		E-NP902S	Modular 26~54MQ(D)	For high-powered models, determine	
2.	Multi-Kit (YType)	MW-102AN	6~10HP	pipe quantity according to total	
		MW-162AN	12~18HP	capacity of indoor unit.	
		MW-242AN	Modular 20~24MQ(D)	unit.	
		MW-302AN	Modular 26~54MQ(D)		
3.	Lock-Type Multi-Kit	ck-Type Multi-Kit E-NP224N RAM-8MQ(D)			
4.	Baffle	AG-335AT	RAM-125~140FPS(B) RAM-200~270FPS(D)	2PC/units	

