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● Use only those parts and accessories supplied or specified by Daikin.

● Read the User's Manual carefully before using this product. The User's Manual provides important safety instructions and warnings. Be sure to follow these instructions and warnings.

If you have any enquiries, please contact your local importer, distributor and/or retailer.



PCXSVN1732

SkyAir

AIR CONDITIONING SYSTEM

COOLING ONLY [50Hz]

AND HEATPUMP [50Hz]



CÔNG TY CỔ PHẦN DAIKIN AIR CONDITIONING (VIETNAM)

VĂN PHÒNG CHÍNH

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R-410A

The solution for light commercial sector






















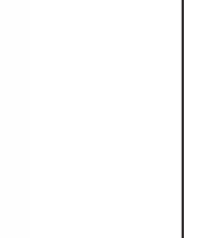
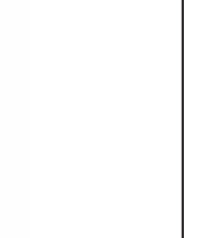
Providing the ideal solution for all kinds of small commercial space such as shops, restaurant and small offices. The Sky Air series offers a complete comfort solution that puts you in total control.



Product Lineup (Heat Pump)

Capacity		50	60	71	125	140	160
Capacity	Cooling (btu/h)	18500	22200	28000	40100	46000	
	Heating (btu/h)	18500	21000	28000	41000	48000	
Ceiling Cassette Type							
Indoor unit		FCQN50FXV1V	FCQN60FXV1V	FCQN71FXV1V	FCQN125FXV1V	FCQN140FXV1V	
Capacity	Cooling (btu/h)			28000	40000	45000	55000
	Heating (btu/h)			27500	42000	46000	54500
Floor Standing Type							
Indoor unit				FVQN71AXV1V	FVQN125AXV1V	FVQN140AXV1V	FVQN160AXV1V
Outdoor unit							
		RYN50CGXV1V	RYN60CGXV1V	RQ71CGXV1V	RQ125DGXY1V	RQ140DGXY1V	RQ160DGXY1V
		Indoor Power	Indoor Power	Indoor Power	Outdoor Power	Outdoor Power	Outdoor Power

Product Lineup (Cooling Only)

Capacity		25	35	50	60	71	71	100	100	125	140	160		
Capacity	Static Pa (H/M/L)	10/8/5	10/8/5	20/19/16	20/18/15		100/82/60	100/67/45		100/67/45	100/81/70	100/72/58		
	Cooling (btu/h)	9000	12000	17400	20800		30000	36000		42000	47000	55000		
Ceiling Concealed														
Indoor unit		FDBRN25DXV1V	FDBRN35DXV1V	FDBRN50DXV1V	FDBRN60DXV1V		FDMRN71DXV1V	FDMRN100DXV1V		FDMRN125DXV1V	FDMRN140DXV1V	FDMRN160DXV1V		
Capacity	Cooling (btu/h)			18500	23000	28000	28000	36000	36000	42000	45000			
Ceiling Cassette Type														
Indoor unit				FCRNF50FXV1V	FCRNF60FXV1V	FCRNF71FXV1V	FCRNF71FXV1V	FCRNF100FXV1V	FCRNF100FXV1V	FCRNF125FXV1V	FCRNF140FXV1V			
Capacity	Cooling (btu/h)					28000	29000	36000	36000	42000	45000	55000		
Floor Standing Type														
Indoor unit								FVRN71BXV1V	FVRN71BXV1V	FVRN100BXV1V	FVRN100BXV1V	FVRN125BXV1V	FVRN140BXV1V	FVRN160BXV1V
Outdoor unit														
Indoor Power		RNV25BV1V	RNV35BV1V	RNV50BV1V	RNV60BV1V	RR71CBXY1V	RR71CBXY1V	RR100DBXY1V	RR100DBXY1V	RR125DBXY1V	RR140DBXY1V	RR160DBXY1V		
Outdoor Power						Outdoor Power	Indoor Power	Outdoor Power	Outdoor Power	Outdoor Power	Outdoor Power	Outdoor Power		

Ceiling Cassette Type

4 way air flow ceiling cassette



COMFORT	CLEANLINESS	WORK & SERVICING	CONTROL FEATURES	OPTIONS
Auto swing				
Swing pattern				
Switchable fan speed				
Programme "Dry"				
Two selectable temperature sensor				
Timer selector				
Weekly scheduled timer				
Washable saranet filter				
Drain pump mechanism				
Pre-charged for up to 7.5m				
Self diagnosis				
Auto random restart				
Group control by Network Interface Module (NIM)				
External command control using BAG				
Fresh-air intake kit				

*1 Applicable when wired controller is used.

FCRN50/60/71/100/125/140FXV1V



Wired Controller:
BRC51A62 (Cooling Only)
* Optional

Wireless Controller:
BRC52A62 (Cooling Only)
* Supplied with panel



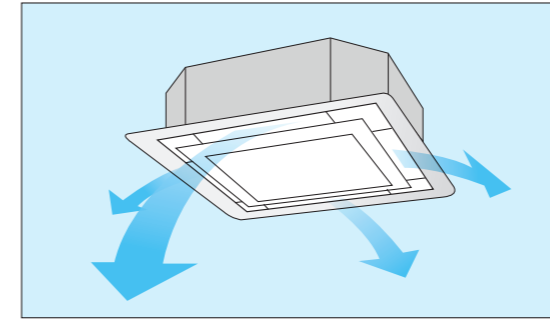
Wired Controller:
BRC51A61 (Heatpump)
* Optional

Wireless Controller:
BRC52A61 (Heatpump)
* Supplied with unit



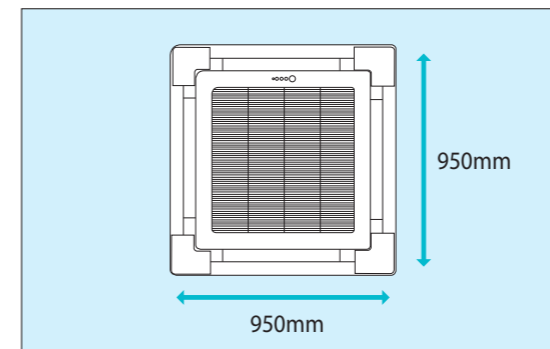
4-way air flow

This unit promotes even air distribution covering every corner of the room by combining 4-ways air discharge and large discharge area.



Fine square panels

Panel size is same for all models. It is easy to maintain a neat appearance when multiple units are installed.



Compact body and quiet operation

Indoor units as an aerodynamically designed Difuser Turbo Fan.

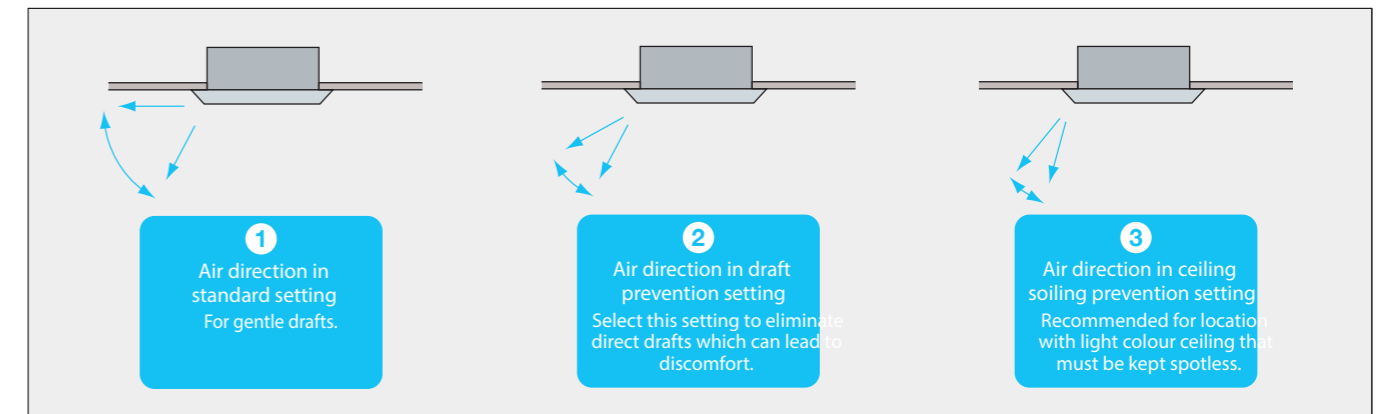


Draft resistance has been reduced by incorporating into a single unit, an impeller and a diffuser to control air flow inside the unit. The Diffuser Turbo Fan is both quiet during operation and compact.

Indoor Unit	Low dB(A)	Quiet dB(A)
FCRN50F	33	29
FCRN60F	34	31
FCRN71F	35	32
FCRN100F	37	34
FCRN125F	41	37
FCRN140F	41	37

Optimal comfort and convenience assured by air discharge modes

To increase the comfort level of the air conditioned area, the system is built-in with 3 different types of air flow pattern to suit different requirements.



The default setting for air swing pattern is 1. The air swing pattern can be selected through the wireless remote control.

Two selectable temperature sensors

Both indoor unit and wired remote controller (option) contain temperature-sensors. Temperature sensing can be set at the unit or, to further improve comfort level, closer to the target area at the wired remote control. This feature must be set during commissioning by the technicians.

* Temperature-sensor on indoor unit must be used when the air conditioner is controlled from another room.
** Wireless remote controller does not have a temperature-sensor.

Switchable fan speed:

High → Medium → Low → Quiet

High setting provides maximum reach while low setting minimises drafts.

Timer selector

Operation starts when the preset time of the ON timer elapses and stops when the preset time of the OFF timer elapses.

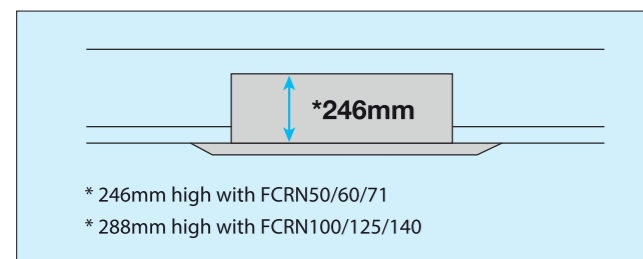
Powerful operation

New powerful operation boosts airflow to maximum volume for a 20-minute period **with highest fan speed**. After this, the unit automatically returns to its previous settings.

Easy Installation

Quick and easy to install

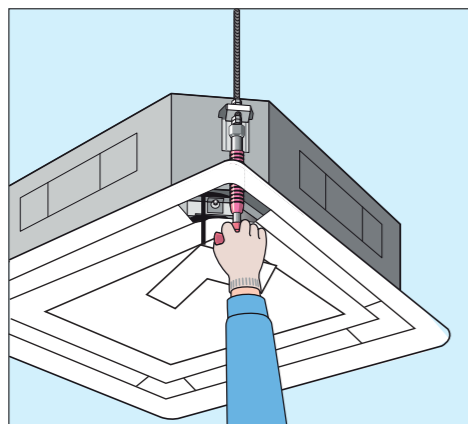
Just 246mm high. Installable in tight ceiling spaces.



All models can be installed without using lifter because of the light weight.

Detachable corner

For the ease and flexibility of installation, this unit is designed with 4 detachable corners where installer is able to fit their hand in to adjust hanging hook and perform drain leakage check.



Indoor unit ON/OFF switch

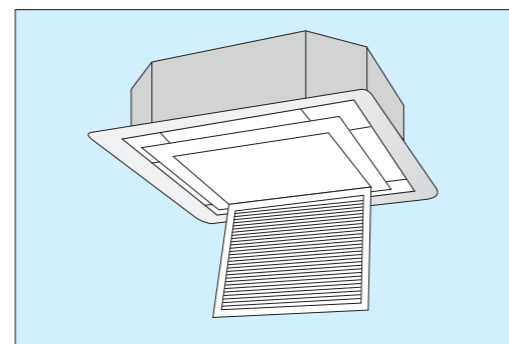
The unit can be conveniently started manually in the event the wireless remote controller is misplaced or the wireless remote controller batteries are not charged.

Extra protection

This unit covered with insulation material acts as extra protection when installed under very high humidity environment to prevent condensation.

Panel-hook mechanism

This feature enables the installer to work with both hands as the panel can be hung on the unit.



Position of connecting pipe and drain hose

In order to create more space for installer to work on connection pipe of indoor unit, the connection pipe of gas and liquid are located further from each other and purposely not align to hanging hook.

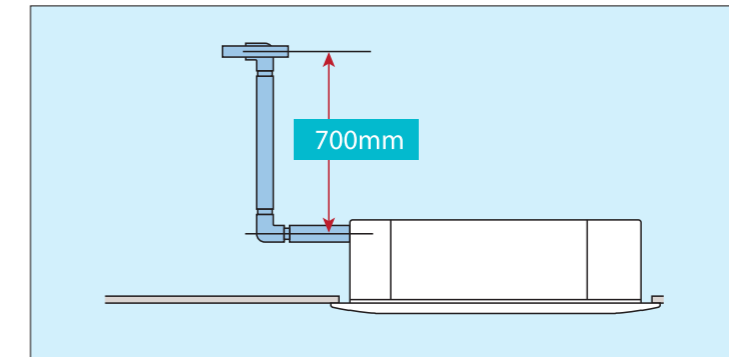
To enhance the convenience of installation, drain hose location is relocated to another side of cassette unit (not same side with connection pipe)

Easy accessible control box

Control box of this unit can be accessed directly from the intake grille for ease of installation and servicing process.

Drain pump is equipped as standard accessory with 700mm lift

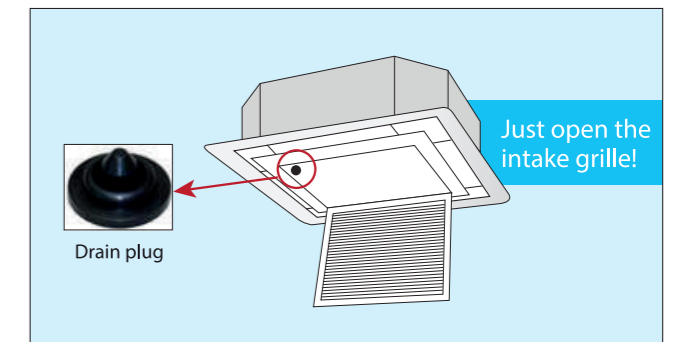
This unit comes with a condensate water drain pump which can pump water up to 700mm higher from drain pipe outlet. Safety float is incorporated to monitor water level.



Easy Maintenance

Easier to maintain

The condition of the drain pan and drain water can be checked by removing the drain plug and intake grille.



Simple step to change fan motor

- Without removing panel, it can be easily access and service to fan motor
- Reduced troubleshooting and servicing time
- Three simple steps:
Control box → Fan cover → Blower fan → Fan motor



Self-diagnosis function

This intelligent feature helps to detect faults or malfunctioning in the system and give user a warning by blinking of the LED light or display error code on wired controller.

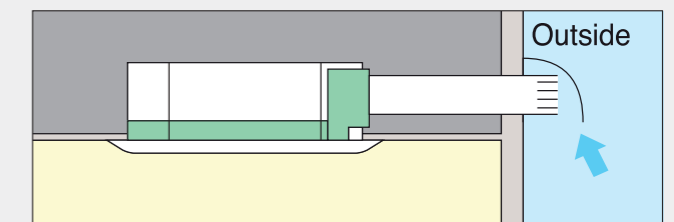
Options required for specific operating environments

Fresh air intake kit

Using this kit*, a duct can be fitted to increase the intake of outdoor air.

Knock-out hole

The built-in knock-out hole are available for fresh air intake or branch duct.



Note: *Connecting ducts, insect nets, fire dampers, air filters, and other parts should, as required, be procured locally.

Duct Connection Low Static & Standard Static Pressure Type

Flexible use of space is made possible using ducts to create a room filled with comfort



FDBRN25DXV1V (low static)



FDBRN35/50/60DXV1V (low static)
FDMRN71/100/125/140/160DXV1V
(standard static)



Wired controller:
BRC51A62 (Cooling Only)
* supplied with unit

Wireless controller:
BRC52A62 (Cooling Only)
* optional



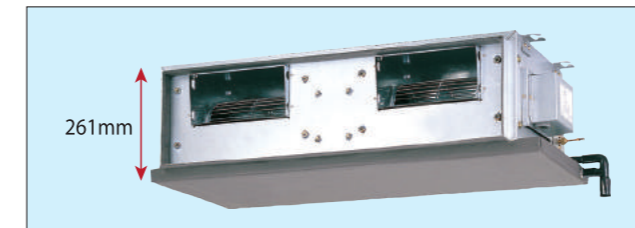
COMFORT					CLEANLINESS	WORK & SERVICING	CONTROL FEATURES		OTHERS
Switchable fan speed	Programme "Dry"	Two selectable temperature sensor	Timer selector	Weekly scheduled timer	Washable saranet filter	Pre-charged for up to 7.5m	Self diagnosis	Auto random restart	Anti corrosion treated heat exchangers
●	●	*1	●	*1	●	●	●	●	●

*1 Applicable when wired controller is used.

Thin, lightweight indoor unit makes delivery and installation easy

With a height of only 261mm, installation is possible even in buildings with narrow ceiling spaces.

(mm)



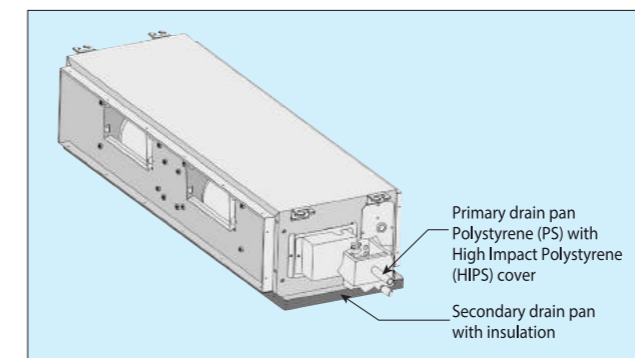
Indoor Unit	25	35	50	60
Height	261			
Width	765	905	1065	1200
Depth	411			

Flexibility in system design

The unit offers fan motor that can operate up to 3 speeds, thus providing choices of external static pressure for designing ducting system.

Double protection drainage system

The primary drain pan is designed with high thermal insulation material and moulded in gradient for better condensate water drainage. The extra secondary drain pan "built in" to the standard unit offers extra protection against possible water leaking problems.



Two selectable temperature sensors

Both indoor unit and wired remote controller (option) contain temperature-sensors. Temperature sensing can be set at the unit or, to further improve comfort level, closer to the target area at the wired remote control. This feature must be set during commissioning by the technicians.

* Temperature-sensor on indoor unit must be used when the air conditioner is controlled from another room.

** Wireless remote controller does not have a temperature-sensor.

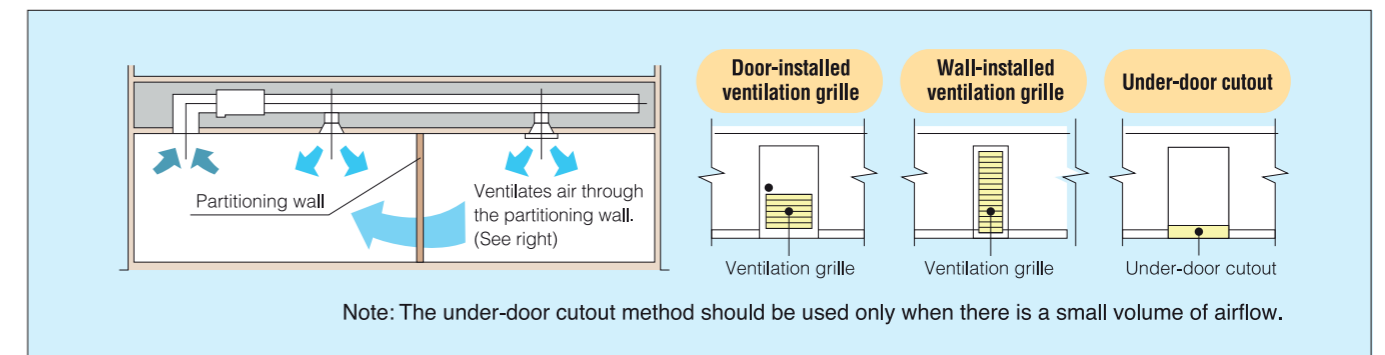
Switchable fan speed

High/Medium/Low

High setting provides maximum reach while low setting minimises drafts.

Simultaneous air conditioning of two rooms and ventilation grille (ventilation opening)

When air conditioning two rooms simultaneously, the air discharged into each room must be circulated back to the air conditioner. To achieve this, a ventilation duct should be installed for each room or one of the indicated ventilation grilles should be installed on the partitioning wall or under the door between the rooms.



Floor Standing Type

Space Saving with style and functionality



FVRN71/100/125/140/160BXV1V
FVQN71/125/140/160/AVXV1V



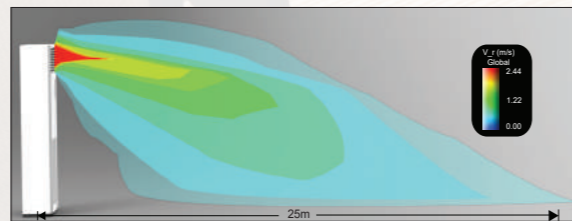
Wired Controller:
BRC51A62 (Cooling Only)
* Optional

Wireless Controller:
BRC52A62 (Cooling Only)
* Supplied with unit



Far air flow

The Daikin floor standing is able to achieve air flow distance as far as 25m* which is about the size of a basketball court.



* Note: Based on size 140

Wired Controller:
BRC51A61 (Heatpump)
* Optional

Wireless Controller:
BRC52A61 (Heatpump)
* Supplied with unit

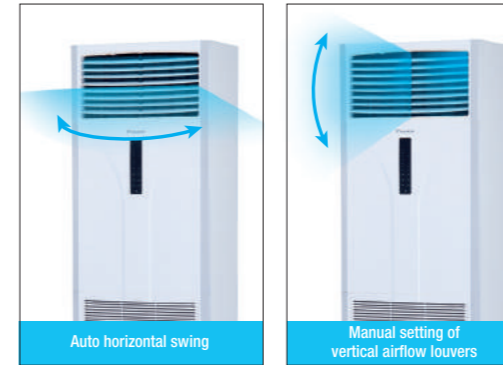


COMFORT					CLEANLINESS	WORK & SERVICING	CONTROL FEATURES			
Auto swing	Switchable fan speed	Programme "Dry"	Two selectable temperature sensor	Timer selector	Washable saranet filter	Pre-Charged for up to 7.5m	Self diagnosis	Auto random restart	Group control by Network Interface Module (NIM)	External command control using BAG
●	●	●	*1	●	●	●	●	●	●	●

*1 Applicable when wired controller is used.

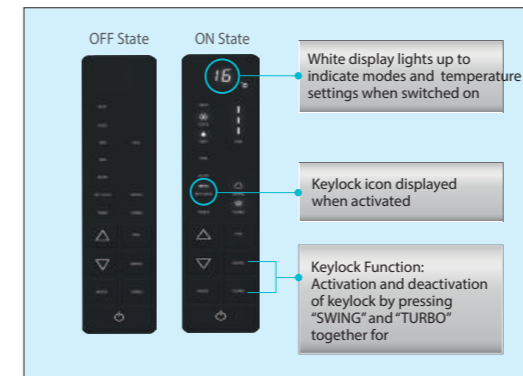
Auto-swing mode

This unit uses its automatic horizontal swing louver to spread comfortable air flow to cool every corner of the room. Its vertical louvers are adjusted manually to match different interior spaces and partition as well as to avoid direct airflow.



User-friendly controls

The unit comes with a stylish black control panel with white LED light for clear display. It comes with a keylock function to prevent setting change from unauthorised personnel.



Additionally, this unit is incorporated with infrared sensor for usage with wireless controller (BRC52A62) which comes with the unit as the standard package. Thus, it can also be controlled using wireless controller for the flexibility in controls.



Two selectable temperature sensors

Both indoor unit and wired remote controller (option) contain temperature-sensors. Temperature sensing can be set at the unit or, to further improve comfort level, closer to the target area at the wired remote control. This feature must be set during commissioning by the technicians.

* Temperature-sensor on indoor unit must be used when the air conditioner is controlled from another room.

**Wireless remote controller does not have a temperature-sensor

Switchable fan speed:

High → Medium → Low

High setting provides maximum reach while low setting minimizes drafts.

Timer selector

Operation starts when the preset time of the ON timer elapses and stops when the preset time of the OFF timer elapses.

Powerful operation

New powerful operation boosts airflow to maximum volume for a 20-minute period **with highest fan speed**. After this, the unit automatically returns to its previous settings.

Indoor unit ON/OFF switch

The unit can be conveniently started manually in the event the wireless remote controller is misplaced or the wireless remote controller batteries are not charged.

Easy Maintenance

Safety clip

The safety clip feature allows the users to remove the washable saranet filter with ease during maintenance. At the same time, it also acts as a safety feature to prevent the users from reaching into the electrical and mechanical components.



Space for water drain pump

There is a space in the unit below the fan that allows users to install an external condensate water pump.

* The condensate water drain pump is separately purchased and field installed.



Floor Standing Unit

Condensate water drain pump

Outdoor Unit



Fitted with wide inlet fan

Fully shaped aerodynamic propellers are designed to push air with a large wing surface, providing both high blow volume and quiet operation with turbulence.



Equipped with scroll compressor for quiet operation

Smooth running, minimal vibration, low operating sound.
* Only applicable to RR125/140/160DBXY1V

Outdoor		RNV50B	RNV60B	RR71C (1PH)
Sound Pressure Level	dBA	52	52	56

Outdoor		RR71C (3PH)	RR100D (1PH)	RR100B (3PH)
Sound Pressure Level	dBA	56	58	58

Outdoor		RR125D	RR140D	RR160D
Sound Pressure Level	dBA	60	65	65



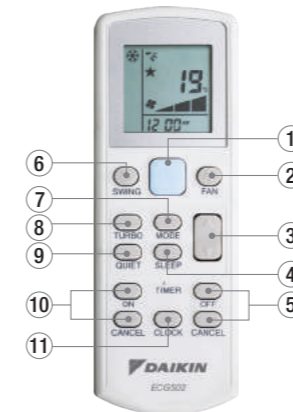
Installation and Maintenance

Durability

- The unit is covered with corrosion-proof galvanized steel to enhance its durability.
- Heat exchange fins are provided with anti-corrosion treatment.

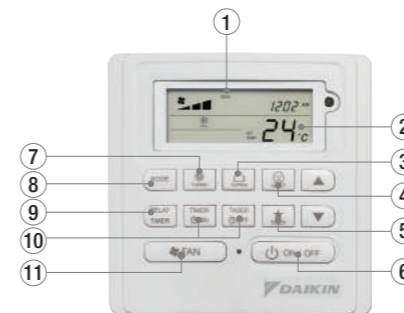
Controllers

Wireless controller BRC52A62 (Cooling Only)



- ① "Glow-in-the-dark" ON/OFF switch
- ② Fan speed selection: Low, Medium, High, Auto
- ③ Temperature setting: Up & down
- ④ Sleep mode function
- ⑤ Off timer setting
- ⑥ Vertical auto-swing
- ⑦ Selectable mode: Cool, Dry, Fan
- ⑧ Turbo function
- ⑨ Quiet function
- ⑩ On timer setting
- ⑪ Real time clock

Wired controller BRC51A62 (Cooling Only)



- ① Real time clock and day display
- ② Temperature operate in °C and °F
- ③ Swing function
- ④ Quiet function
- ⑤ Sleep function
- ⑥ ON/OFF switch
- ⑦ Turbo function
- ⑧ Cool, Dry, Fan mode
- ⑨ Delay timer (1 or 2 hours)
- ⑩ 7-days programmable timer
- ⑪ Low, Medium, High, Auto fan speed

Wired controller BRC51A62 can directly be connected to the unit's main board to start operating without extra setting or modification. It also has a built-in temperature sensor that enables temperature sensing closer to target area for improved comfort (no settings required to activate the handset temperature sensor).

BRC51A61 Heatpump with auto mode



Features:

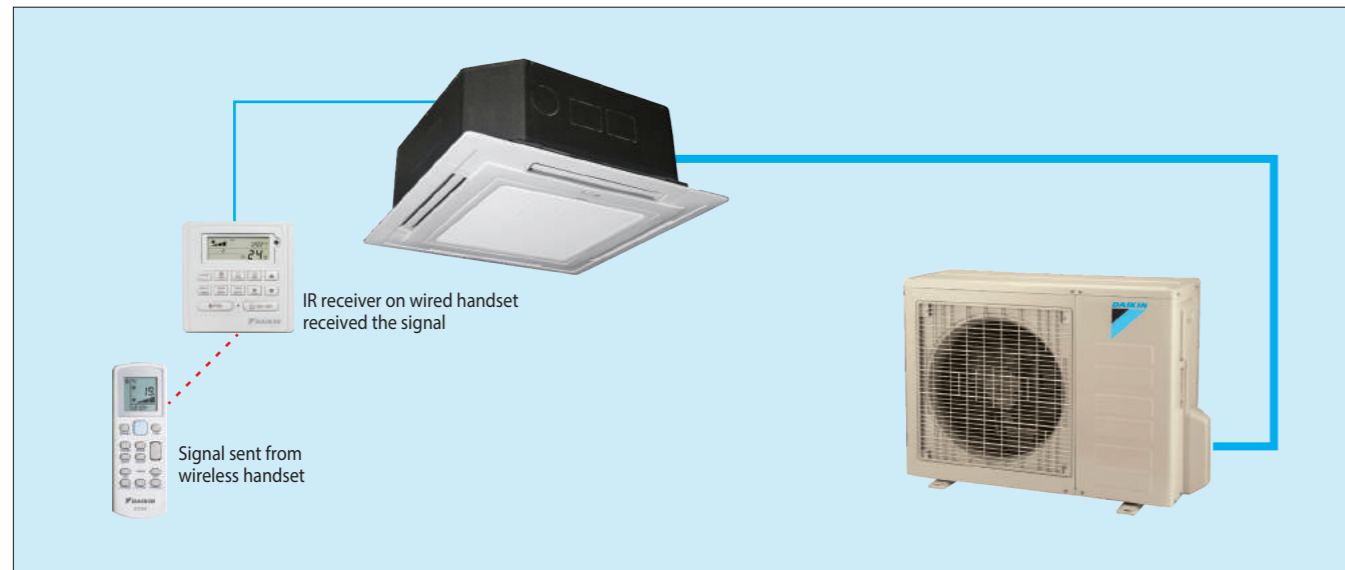
- Cool/Heat/Fan/Dry/Auto mode
- Auto/High/Med/Low fan speed
- Temperature operate in °C and °F
- Sleep function
- Air swing function
- Real time clock and day display
- 7-days programmable timer
- Error indicator
- Keylock function
- Batteries backup and retain setting during power failure
- Last state memory (memory backup setting from main board)
- Delay timer (1 or 2 hours)
- Interaction with wireless handset-BRC52A61

BRC52A61 Heatpump with auto mode

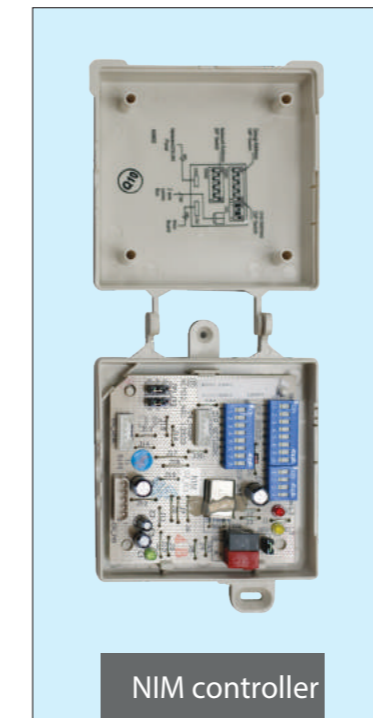


Features:

- "Glow in the dark" on/off button
- Cool/Heat/Fan/Dry/Auto mode
- Auto/High/Med/Low fan speed
- Sleep function
- Air swing function
- Real time clock
- On/off timer setting in real time



Group control by Network Interface Module (NIM)



The NIM group controls consist of:

- Mainboard
- Control panel (BRC51A62)
- NIM controller
- Communication bus

NIM utilizes master-slave configurations. One master can control up to 15 slave units in a group. The master unit operates in conjunction with a control panel. Any settings done via the control panel connected to the master overwrite the settings of its slave units. Slave units can be operated with or without control panel. If a slave unit is operating with a control panel, its settings can be changed without following its master's.

- DIP switch setting for group and unit address
- Automatic detection of control panel
- Error codes and error unit's ID indication on control panel
- Supported configurations of NIM:

	Master	Slave
BRC51A62	•	•
BRC52A62		•

Simple system that provides flexibility of controls

	Control Pattern	Remote Controls
Group control by Network Interface module (NIM)	For simultaneous control of up to 16 indoor units	
Sequential control by Sequential Network Interface Module (S-NIM)	For sequential control of 2 indoor units at alternate sequence of pre-set hour	
Control by external command using BAG	Operation and surveillance is carried out using the contact signal from the operation control box in the building surveillance (security) room.	

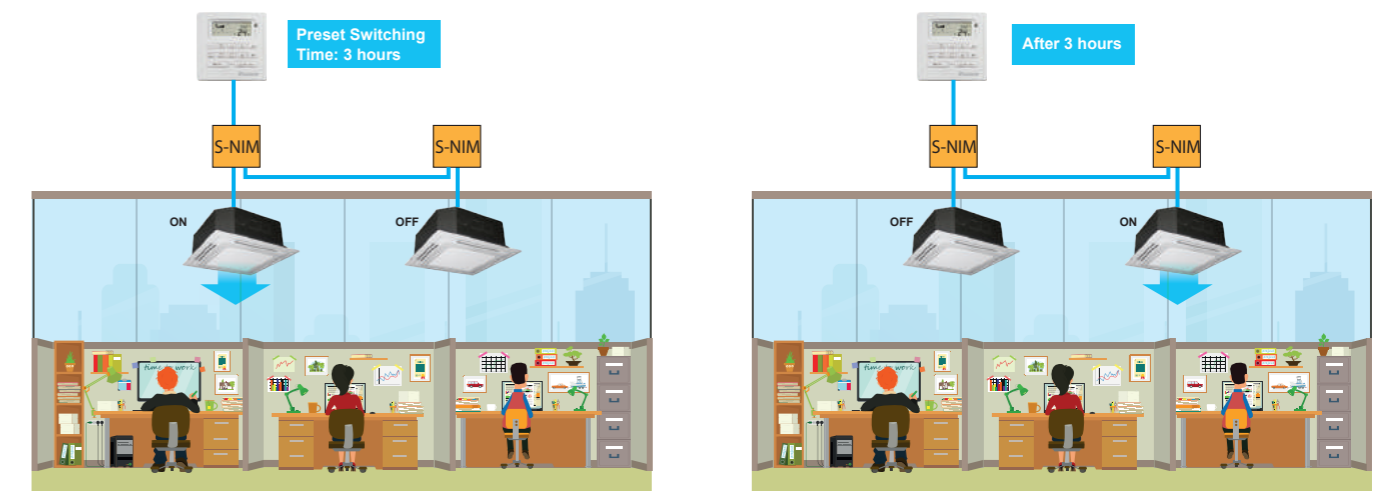
Sequential control by Sequential Network Interface Module (S-NIM)

Control two units of air conditioner in a master and slave system, operating at alternate sequence of preset hours (3/4/5/7/9/11/12 hours), controlled by a single BRC51A62 controller.

The S-NIM controls consist of:

- Mainboard
- Control panel (BRC51A62)
- S-NIM controller
- Communication bus

The S-NIM is suitable in environment requiring 24-hours air conditioning, such as server room, room containing critical electronics equipment, laboratories, telecommunication towers, railway switching centre and 24-hours shoplets. It also extends the operating lifetime of existing air conditioning units.



When the operating unit is faulty, the standby unit automatically takes over. Other features of S-NIM:

- Auto restart feature with last state settings.
- Error indication via error code display on the control panel.
- Pre-set operation hours via DIP switch.
- Maximum point to point distance of 1000m.

Control by external command using BMS Access Gateway (BAG)



BAG controller

BAG interfaces the air conditioner unit to BMS system via input contacts, resistance inputs and dry contacts outputs which allows the monitoring and controls of the air conditioner. The BAG enables:

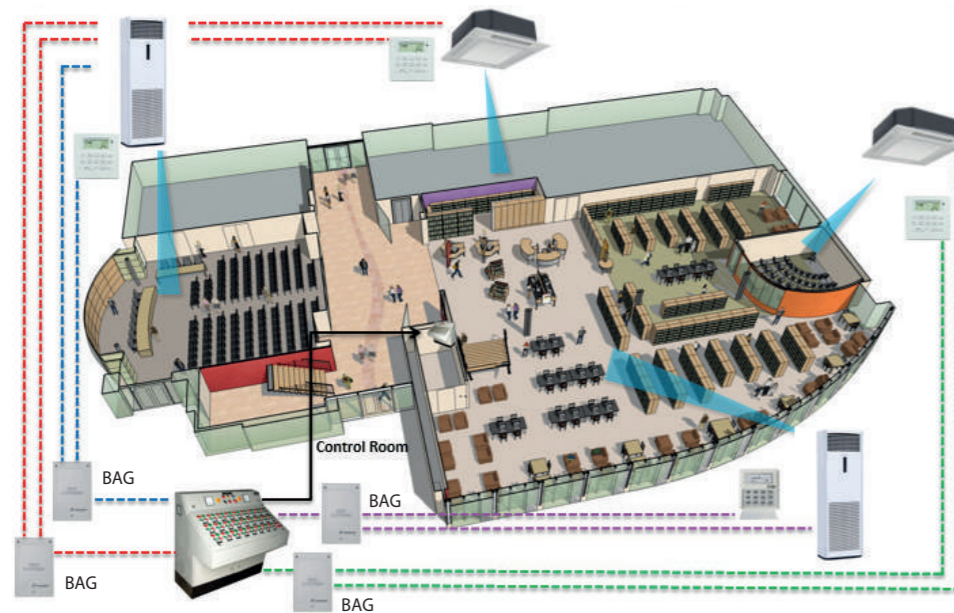
- Controls of the air conditioner unit's ON/OFF status, operating mode, fan speed setting, room temperature setting as well as forcing off the unit in the event of fire.
- Indication to warn the control room in the event of air conditioner failure.
- Maximum point-to-point distance of 1100m (please refer to the installation manual)

Inputs	Inputs Controls	Applications
Input contacts	Force off/unchange	Smoke alarm system
	ON/OFF	Long distance unit ON/OFF control
Resistance Inputs	Temperature setting (16°C-30°C)	Long distance unit temperature setting control
Outputs	Output Indications	Applications
Relay outputs	ON/OFF Status	Long distance unit operation status monitoring
	Unit faulty / normal	

The BAG controls consist of:

- Mainboard
- Control panel (BRC51A62)
- BAG controller
- Communication bus

Individual air conditioners can be turned on from the control room's Input Contact connection



Abundance of functions that provide comfortable air-conditioning in stores and offices

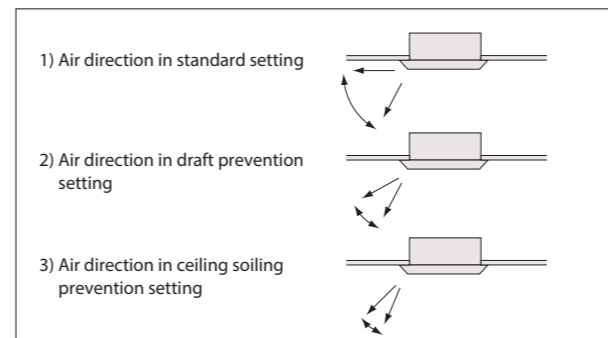
Comfort

Auto-swing

Delivers comfortable air-conditioning to all areas, near to and far from the air-conditioner.

Swing pattern selection

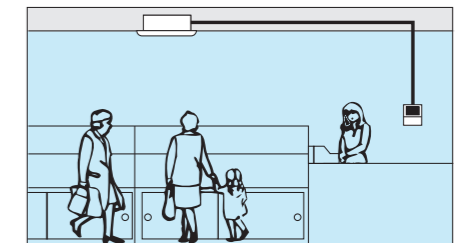
You can freely set 3 air discharge setting by remote controller.



Two selectable temperature-sensors

Temperature-sensors are included in the indoor unit and optional wired remote controller. temperature sensing closer to target area is possible to further increase the comfort level.

Use the temperature-sensor in the indoor unit when controlling air conditioning from another room.



Note: Wireless remote controllers have no temperature-sensor

Switchable fan speed(*available on all models)

Selectable High, Medium and Low fan speed. High setting provides maximum reach while low setting minimizes drafts.

Programme "Dry" (*available on all models)

Dehumidification is microprocessor controlled to prevent abrupt and uncomfortable changes in air temperature. Useful for reducing uncomfortable humidity without uncomfortable cooling of the room.

Timer selector

Operation starts when the preset time of the ON timer elapse and stops when the preset time of the OFF timer elapses.

Weekly schedule timer

Available in Timer 1 & Timer 2 with operation ON/OFF settings programmed for 7 days of the week.

Cleanliness

Washable saranet filter

Removal of air-borne dust particles through saranet filter ensures cleaner air supply.

Work and Servicing

Drain pump mechanism

Steeper gradient realises more efficient condensate drainage. High-lift is especially useful for long lengths of drain piping.

Pre-charge for up to 7.5 metres

If refrigerant piping length does not exceed 7.5m, there is no need for on-site gas charging. However for any piping length more than 7.5m, requires for additional charge.

(Applies for all models)

Self diagnosis function(*available on all models)

The operating parameters of indoor and outdoor units, and sensor data at critical locations throughout the system, are constantly monitored using a microcomputer. This intelligent feature helps to detect faults or malfunctioning in the system and give user a warning by blinking of the LED light on the unit or display error code on the wired controller.

Control features

Auto random restart (*available on all models)

If there is a power outage while the equipment is operating, operations will restart randomly (within 180 to 244 seconds) in the same mode as before the power cut when electricity is restored.

Group control by Network Interface Module (NIM)

You can turn up to 16 indoor units on/off with a single remote controller. (When using connected indoor units, the settings must all be the same and on/off will be simultaneous.)

External command control using BAG

Operation and surveillance is carried out using the contact signal from the operation control box in the building surveillance (security) room.

Options

Fresh-air intake kit

You can provide air-conditioning with fresh air from outside. It is convenient for places where a ventilation fan cannot be installed.

Note: * Connecting ducts, insect nets, fire dampers, air filters, and other parts should, as required, be procured locally.

Specifications

Ceiling cassette F series (Cooling only)

		50	60	71	71	100	100	125	140	
Model	Indoor unit	FCRN50FXV1V	FCRN60FXV1V	FCRN71FXV1V	FCRN71FXV1V	FCRN100FXV1V	FCRN100FXV1V	FCRN125FXV1V	FCRN140FXV1V	
	Outdoor unit	RNV50BV1V	RNV60BV1V	RR71CBXV1V	RR71CBXV1V	RR100DBXV1V	RR100DBXV1V	RR125DBXV1V	RR140DBXV1V	
	Decoration panel	BC50F2XWV								
Nominal cooling capacity	Btu/h	18,500	23,000	28,000	28,000	36,000	36,000	42,000	45,000	
	W	5,420	6,740	8,210	8,210	10,550	10,550	12,310	13,200	
Nominal total input power	W	1,760	2,050	2,930	2,900	3,770	3,660	4,110	4,810	
Nominal running current	A	7.75	9.09	13.60	5.22	16.7	6	6.57	8.34	
EER	W/W	3.08	3.29	2.80	2.83	2.80	2.88	3.00	2.74	
Power Supply	V/Ph/Hz	220-240/1/50			380-415/3/50		220-240/1/50		380-415/3/50	
Indoor unit	Airflow (H/M/L/Q)	cfm	730/620/510/360	840/700/560/440	890/760/620/490	890/760/620/490	1030/870/730/580	1030/870/730/580	1120/1030/890/760	1120/1030/890/760
	Sound pressure level (H/M/L/Q)	dB(A)	38/35/33/29	39/37/34/31	41/38/35/32	41/38/35/32	46/41/37/34	46/41/37/34	48/45/41/37	48/45/41/37
	Dimensions (HxWxD)	Unit	mm	246x840x840	246x840x840	246x840x840	246x840x840	288x840x840	288x840x840	288x840x840
		Decoration panel	mm	301x950x950	301x950x950	301x950x950	301x950x950	343x950x950	343x950x950	343x950x950
	Machine weight	Unit	kg	22	22	22	22	25	25	29
		Decoration panel	kg	5	5	5	5	5	5	5
Outdoor unit	Sound pressure level	dB(A)	52	52	56	56	58	58	60	
	Dimensions (HxWxD)	mm	651x855x328	651x855x328	753x855x328	753x855x328	852x1030x400	852x1030x400	852x1030x400	
	Machine weight	kg	43	47	57	56	71	71	95	
Piping connections	Liquid	mm	6.35	6.35	9.52	9.52	9.52	9.52	9.52	
	Gas	mm	12.7	15.88	15.88	15.88	15.88	15.88	15.88	
Maximum piping length	m	30			45		50			
Maximum piping elevation	m	15			25		30			

Ceiling cassette F series (Heatpump)

		50	60	71	125	140	
Model	Indoor unit	FCQN50FXV1V	FCQN60FXV1V	FCQN71FXV1V	FCQN125FXV1V	FCQN140FXV1V	
	Outdoor unit	RYN50CGXV1V	RYN60CGXV1V	RQ71CGXV1V	RQ125DGXV1V	RQ140DGXV1V	
	Decoration panel	BYC50F2XWV					
Nominal cooling capacity	Btu/h	18,500	22,200	28,000	40,100	46,000	
	W	5,420	6,510	8,210	11,750	13,480	
Nominal heating capacity	Btu/h	18,500	21,000	28,000	41,000	48,000	
	W	5,420	6,150	8,210	12,020	14,070	
Nominal total input power (cooling)	W	1,740	1,945	2,810	3,945	4,800	
Nominal total input power (heating)	W	1,470	1,770	2,392	3,745	4,600	
Nominal running current (cooling)	A	7.66	8.70	13.00	6.87	8.39	
Nominal running current (heating)	A	6.45	8.00	11.20	6.62	8.12	
EER	W/W	3.12	3.35	2.92	2.98	2.81	
COP	W/W	3.69	3.48	3.43	3.21	3.06	
Power supply	V/Ph/Hz	220-240/1/50 (power from indoor)			380-415/3/50 (power from outdoor)		
Indoor unit	Airflow (H/M/L/T/Q)	cfm	730/620/510/360	840/700/560/440	890/760/620/490	1120/1030/890/760	
	Sound pressure level (H/M/L/T/Q)	dB(A)	38/35/33/29	39/37/34/31	41/38/35/32	48/45/41/37	49/45/41/37
	Dimensions (HxWxD)	Unit	mm	246x840x840			288x840x840
		With decoration panel	mm	301x950x950 (BYC50F2)			343x950x950 (BYC50F2)
	Machine weight	Unit	kg	22			25
		Decoration panel	kg	5			
Outdoor unit	Sound pressure level	dB(A)	52	58	60		
	Dimensions (HxWxD)	mm	651x855x328	753x855x328	852x1030x400		
	Machine weight	kg	47	47	57	95	
Piping connections	Liquid	mm	6.35			9.52	
	Gas	mm	12.7	15.88			
Maximum piping length	m	25			45		
Maximum piping elevation	m	10			25		

Specifications

Ceiling Concealed (Cooling Only)

MODEL	INDOOR UNIT		25	35	50	60		
	OUTDOOR UNIT		FDBRN25DXV1V	FDBRN35DXV1V	FDBRN50DXV1V	FDBRN60DXV1V		
Nominal cooling capacity	Btu/h		9,000	12,000	17,400	20,800		
	W		2,640	3,520	5,100	6,100		
Nominal total input power	W		977	1,420	1,799	2,042		
Nominal running current	A		4.38	6.35	7.93	9.03		
EER	W/W		2.7	2.48	2.83	2.99		
Power Supply	V/Ph/Hz		220-240/~/50	220-240/~/50	220-240/~/50	220-240/~/50		
IDU	Airflow (H/M/L)		cfm	250/220/180	410/370/280	540/520/480	607/580/530	
	External static pressure (H/M/L)		Pa	10/08/2005	10/08/2005	20 / 19 / 16	20 / 18 / 15	
	Sound pressure level (H/M/L)		dBA	32 / 29 / 26	36 / 33 / 27	38 / 37 / 35	40 / 39 / 38	
	UNIT	HEIGHT	mm	261	261	261	261	
	DIMENSION	WIDTH	mm	765	905	1065	1200	
	ON	DEPTH	mm	411	411	411	411	
	UNIT WEIGHT		kg	18	22	24	26	
	ODU	UNIT	HEIGHT	mm	550	550	651	651
		DIMENSION	WIDTH	mm	658	658	855	855
		ON	DEPTH	mm	273	273	328	328
UNIT WEIGHT		kg	28	26	47	47		
PIPE CONNECTION		TYPE	Flare Joint	Flare Joint	Flare Joint	Flare Joint		
		SIZE	LIQUID	mm	6.35	6.35	6.35	
			GAS	mm	9.52	12.70	12.70	15.88
Piping Length		mm	20	20	30	30		
Elevation		mm	10	10	15	15		

MODEL	INDOOR UNIT		71	100	125	140	160	
	OUTDOOR UNIT		FDMRN71DXV1V	FDMRN100DXV1V	FDMRN125DXV1V	FDMRN140DXV1V	FDMRN160DXV1V	
Nominal cooling capacity	Btu/h		30,000	36,000	42,000	47,000	55,000	
	W		8,790	10,550	12,310	13,770	16,120	
Nominal total input power	W		3,150	4,150	4,500	5,100	5,758	
Nominal running current	A		14.4	18.2	7.06	8.66	9.40	
EER	W/W		2.79	2.54	2.74	2.70	2.80	
Power Supply	V/Ph/Hz		220-240/~/50	220-240/~/50	380-415/3N~/50	380-415/3N~/50	380-415/3N~/50	
IDU	Airflow (H/M/L)		cfm	970/880/750	1300/1060/870	1300/1060/870	1500/1350/1250	1660/1400/1260
	External static pressure (H/M/L)		Pa	100 / 82 / 60	100 / 67 / 45	100 / 67 / 45	100 / 81 / 70	100 / 72 / 58
	Sound pressure level (H/M/L)		dBA	47 / 45 / 42	50 / 47 / 43	50 / 47 / 43	51 / 48 / 46	52 / 50 / 47
	UNIT	HEIGHT	mm	378	378	378	378	
	DIMENSION	WIDTH	mm	929	1045	1045	1299	
	ON	DEPTH	mm	541	541	541	541	
	UNIT WEIGHT		kg	42	44	44	50	
	ODU	UNIT	HEIGHT	mm	753	852	852	852
		DIMENSION	WIDTH	mm	855	1030	1030	1030
		ON	DEPTH	mm	328	400	400	400
UNIT WEIGHT		kg	57	71	95	105		
PIPE CONNECTION		TYPE	Flare Joint	Flare Joint	Flare Joint	Flare Joint		
		SIZE	LIQUID	mm	9.52	9.52	9.52	
			GAS	mm	15.88	15.88	15.88	19.05
Piping Length		mm	45	50	50	35		
Elevation		mm	25	30	30	15		

Specifications

Floor Standing (Cooling Only)

Model	INDOOR UNIT		71	71	100	100	125	140	160
	OUTDOOR UNIT		FVRN71BXV1V	FVRN71BXV1V	FVRN100BXV1V	FVRN100BXV1V	FVRN125BXV1V	FVRN140BXV1V	FVRN160BXV1V
Nominal cooling capacity	Btu/h		29,000	28,000	36,000	36,000	42,000	45,000	55,000
	W		8,490	8,210	10,550	10,550	12,310	13,180	16,120
Nominal total input power	W		2,900	2,850	3,860	3,550	4,100	4,900	5,490
Nominal running current	A		13.4	5.21	17.1	5.88	6.58	8.42	9.35
EER	W/W		2.93	2.88	2.73	2.97	3.00	2.69	2.94
Power Supply	V/Ph/Hz		220-240/1/50	380-415/ 3/ 50	220-240/ 1/ 50	380-415/3/50			
Indoor unit	Airflow (H/M/L)		cfm	675/625/530	1035/945/845	1035/945/845	1035/945/845	1035/935/835	1170/1085/985
	Sound pressure level (H/M/L)		dB(A)	44/ 42/ 39	44/ 42/ 39	49/ 47/ 44	49/ 47/ 44	50/ 48/ 46	54/ 53/ 51
	Dimensions (HxWxD)		mm	1850x600x270	1850x600x270	1850x600x350	1850x600x350	1850x600x350	1850x600x350
	Machine weight		Unit	kg	42	45	45	48	51
Outdoor unit	Sound pressure level		dB(A)	56	56	58	58	60	63
	Dimensions (HxWxD)		mm	753x855x328	753x855x328	852x1030x400	852x1030x400	852x1030x400	852x1030x400
	Machine weight		kg	57	56	71	71	95	105
	Piping connections		Liquid	mm	9.52	9.52	9.52	9.52	9.52
		Gas	mm	15.88	15.88	15.88	15.88	19.05	
Maximum piping length		m	50						45
Maximum piping elevation		m	30						25

Floor Standing (Heatpump)

Model	INDOOR UNIT		71	125	140	160
	OUTDOOR UNIT		FVQN71AXV1V	FVQN125AXV1V	FVQN140AXV1V	FVQN160AXV1V
Nominal cooling capacity	Btu/h		28,000	40,000	45,000	55,000
	W		8,210	11,720	13,190	16,120
Nominal heating capacity	Btu/h		27,500	42,000	46,000	54,500
	W		8,060	12,310	13,480	15,970
Nominal total input power (Cooling)	W		2,840	4,050	4,680	5,490
Nominal total input power (Heating)	W		2,520	3,920	4,465	5,300
Nominal running current (Cooling)	A		13	7.07	8.23	9.35
Nominal running current (Heating)	A		11.7	6.93	8.12	9.23
EER (Cooling)	W/W		2.89	2.89	2.82	2.94
COP (Heating)	W/W		3.2	3.14	3.02	3.01
Power Supply	V/Ph/Hz		220-240/1/50 (power from indoor)	380-415/ 3/ 50 (power from outdoor)		
Indoor unit	Airflow (H/M/L)		cfm	675/ 625/ 530	1035/ 945/ 845	1035/ 935/ 835
	Sound pressure level (H/M/L)		dB(A)	44/ 42/ 39	49/ 47/ 44	50/ 48/ 46
	Dimensions (HxWxD)		mm	1850 X 600 X 270	1850 X 600 X 350	
	Machine weight		Unit	kg	42	48
Outdoor unit	Power supply (Outdoor)		V/Ph/Hz	220-240/ 1/ 50	380-415/ 3/ 50	
	Sound pressure level		dB(A)	58		60
	Dimensions (HxWxD)		mm	753 X 855 X 328	852 X 1030 X 400	
	Machine weight		kg	57	95	105
Piping connections		Liquid	mm 9.52			
		Gas	mm 15.88		mm 19.05	
Maximum piping length		m	45			
Maximum piping elevation		m	25			