



Warning

- Ask a qualified installer or contractor to install this product. Do not try to install the product by yourself. Improper installation can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Use only those parts and accessories supplied or specified by Daikin. Ask a qualified installer or contractor to install those parts and accessories. Use of unauthorised parts and accessories or improper installation of parts and accessories can result in water or refrigerant leakage, electrical shock, fire or explosion.
- 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.

Cautions on product corrosion

1. Air conditioners should not be installed in areas where corrosive gases, such as acid gas or alkaline gas, are produced.
2. If the outdoor unit is to be installed close to the sea shore, direct exposure to the sea breeze should be avoided. If you need to install the outdoor unit close to the sea shore, contact your local distributor.



PCSHK1531-1

SkyAir



AIR CONDITIONING SYSTEM
COOLING ONLY [50Hz]

R-410A

New wide lineup of SkyAir series

Product Lineup



Series		25	40	50	60		71	90	100	125	140			
Btu/h		9,200	13,000	18,000/17,700*1	21,000		26,000	30,000	36,000/35,000*2	42,600/42,000*2,3	48,000			
kW		2.7	3.8	5.3/5.2*1	6.2		7.6	8.8	10.6/10.4*2	12.5/12.3*2,3	14.1			
Pair	CEILING MOUNTED CASSETTE TYPE 〈Round Flow〉 													
	Indoor unit		FCNQ40MV1	FCNQ50MV1	FCNQ60MV1		FCNQ71MV1	FCNQ90MV1	FCNQ100MV1	FCNQ125MV1	FCNQ140MV1			
	Outdoor unit		RNQ40MV1	RNQ50MV1	RNQ60MV1		RNQ71MV1 RNQ71MY1	RNQ90MV1 RNQ90MY1	RNQ100MV1 RNQ100MY1	RNQ125MY1	RNQ140MY1			
	CEILING SUSPENDED TYPE													
	Indoor unit		FHNQ40MV1	FHNQ50MV1	FHNQ60MV1		FHNQ71MV1	FHNQ90MV1	FHNQ100MV1	FHNQ125MV1	FHNQ140MV1			
	Outdoor unit		RNQ40MV1	RNQ50MV1	RNQ60MV1		RNQ71MV1 RNQ71MY1	RNQ90MV1 RNQ90MY1	RNQ100MV1 RNQ100MY1	RNQ125MY1	RNQ140MY1			
	DUCT CONNECTION LOW STATIC PRESSURE TYPE													
	Indoor unit		FDBNQ25MV1	FDBNQ40MV1	FDBNQ50MV1	FDBNQ60MV1	FDBNQ71MV1							
	Outdoor unit		RNQ25MV1	RNQ40MV1	RNQ50MV1	RNQ60MV1	RNQ71MV1 RNQ71MY1							
	MIDDLE STATIC PRESSURE TYPE													
	Indoor unit						FDMNQ71MV1	FDMNQ90MV1	FDMNQ100MV1	FDMNQ125MV1	FDMNQ140MV1			
	Outdoor unit						RNQ71MV1 RNQ71MY1	RNQ90MV1 RNQ90MY1	RNQ100MV1 RNQ100MY1	RNQ125MY1	RNQ140MY1			
OUTDOOR UNIT														
Outdoor unit		RNQ25MV1	RNQ40MV1	RNQ50MV1	RNQ60MV1		RNQ71MV1	RNQ71MY1	RNQ90MV1	RNQ90MY1	RNQ100MV1	RNQ100MY1	RNQ125MY1	RNQ140MY1

Note : *1Applicable to FDBNQ series. *2Applicable to FHNQ series. *3Applicable to FDMNQ series.



Cassette air conditioner with 360° uniform airflow sets the standard



Option

Accessory required for indoor unit.

Wired LCD remote controller



BRC2E61

Note: Remote controller cable is not included and must be procured locally.

Navigation Remote Controller

(Wired Remote Controller)



BRC1E63

Note: Remote controller cable is not included and must be procured locally.

Wireless LCD remote controller

A signal receiver must be added to the indoor unit.



BRC7F633F

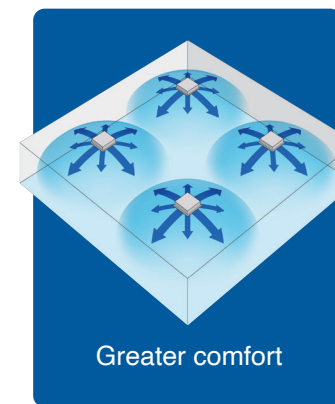
Signal receiver unit (Installed type)
Wireless remote controller is supplied in a set with a signal receiver.

Avoids uneven temperature and discomfort caused by drafts

Comfort enhanced by Round Flow!

360° airflow

- With uniform temperature distribution

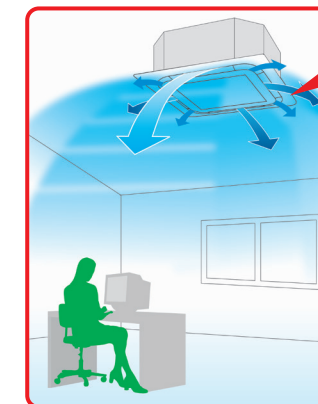


Airflow distribution creates uniform comfort throughout the space.

Room remains comfortable even when set temperature is raised 1°C.

Air movement is gentle with Round Flow

- Enhanced Comfort



360° airflow can maintain comfort even if air discharge speed is lower.

Velocity decreases by 25% when set temperature is raised 1°C to 1.5°C.

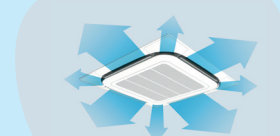
Adapts easily to the installation space

- Because air flows out from corner outlets, comfort spreads more widely

Typical flow patterns

There are a total of 23 flow patterns.

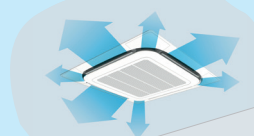
All-round flow



(E.g., installed in middle of ceiling)

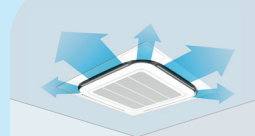
4-way flow also possible.

3-way flow



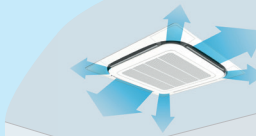
(E.g., installed near a wall)

L-shaped 2-way flow



(E.g., installed in a corner)

Opposite 2-way flow



(E.g., installed in a long room)

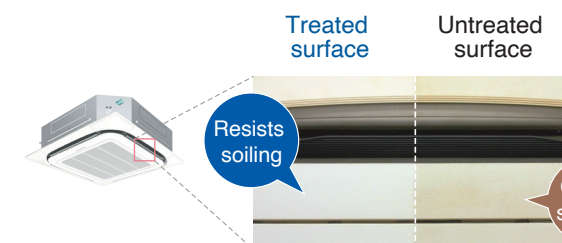
Note: Whatever the discharge direction, the same type of panel is used. If installing for other than all-round flow, an air discharge outlet sealing material (option) must be used to close each unused outlet.

Operation sound increases when using 2-way or 3-way flow.

Grime prevention and antibacterial coating: Make cleaning easier

External panels are treated with a coating that repels dirt

- To prevent dirt sticking to the external panels, they have been coated with a surface treatment



Condition after exposure to the smoke of 600 cigarettes in 1 m³ enclosed space.

- Non-flocking flaps

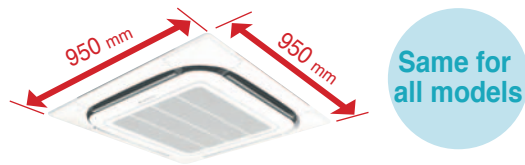
Condensation does not easily form on and dirt does not cling to non-flocking flaps. It is easy to clean.

- Filter has anti-mould and antibacterial treatment

Prevents mould and microorganisms growing out of the dust and moisture that adheres to the filters.

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 unit	Sound pressure level	
	High	Low
40/50M	31	28
60/71M	35	28
90/100M	43	32
125M	44	34
140M	44	36

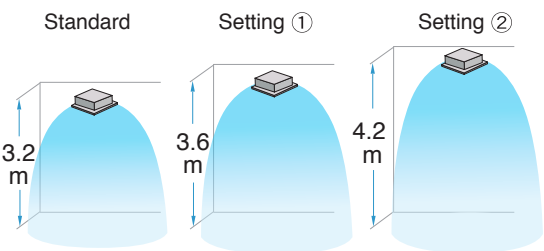
Optimal comfort and convenience assured by 2 air discharge modes

Air direction	Standard setting ¹	Setting to prevent soiling of ceiling ² (field setting)
Desired situation	Standard position to prevent draft.	Recommended for shops with light coloured ceilings that must be kept spotless.
Auto-swing	Auto-swing between 15° and 60°	Auto-swing between 25° and 60°
5-levels air direction setting	Settable to 5 different levels between 15° and 60°	Settable to 5 different levels between 25° and 60°
Auto air direction control	The air direction is set automatically to the memorised position of the previous air direction.	

Note:
¹Air direction is set to the standard position when the unit is shipped from the factory. The position can be changed from the remote controller.
²Closing of the corner discharge outlets is recommended.

Suitable for high ceilings

Even in spaces with high ceilings, a comfortable airflow is carried down to the floor level.



When all round flow is selected, ceilings up to 4.2 m in height can be accommodated. (90M-140M)

Criteria for ceiling height and number of air discharge outlets (Ceiling height is reference value)

		Number of air discharge outlets used							
		40-71M				90-140M			
Ceiling height	Standard	All round flow	4-way flow	3-way flow	2-way flow	All round flow	4-way flow	3-way flow	2-way flow
	High ceiling ①	2.7 m	3.1 m	3.0 m	3.5 m	3.2 m	3.4 m	3.6 m	4.2 m
	High ceiling ②	3.0 m	3.4 m	3.3 m	3.8 m	3.6 m	3.9 m	4.0 m	4.2 m
	High ceiling ③	3.5 m	4.0 m	3.5 m	—	4.2 m	4.5 m	4.2 m	—

Note: Factory settings are for standard ceiling height and all-round flow.
High ceiling settings (1) and (2) are set with the remote controller by field setting.

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/Low

On/Off timer

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

Quick and easy to install

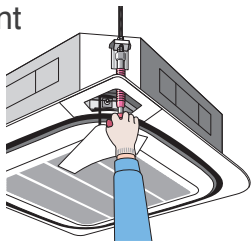
- Just 256 mm high. Installable in tight ceiling spaces (40-71M)



*1 298 mm high with 90-140M
*2 308 mm high with 90-140M

Easy height adjustment

Each corner of the unit has an Adjuster Pocket that lets you easily adjust the unit's suspended height.

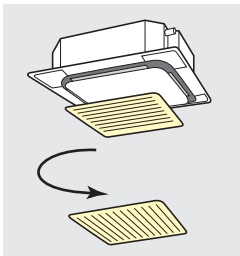


Note:
If the wireless remote controller is installed, a signal receiver unit is housed in one of the adjuster pockets.

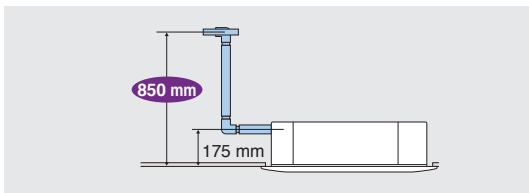
- All models can be installed without using lifter because of the light weight

Installable in any direction

Since the orientation of the suction grille can be adjusted after installing, the direction of the suction grille lines can be unified when multiple units are installed.



- Drain pump is equipped as standard accessory with 850 mm lift



Transparent drain socket

Because the drain socket is transparent, after the drain piping has been installed, it is easy to check if the drain come out through the socket.

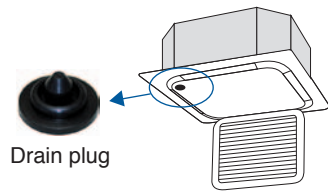


DIII-NET communication standard

Connection to a centralised control system is available without option.

Easier to maintain

- The condition of the drain pan and drain water can be checked by removing the drain plug and suction grille



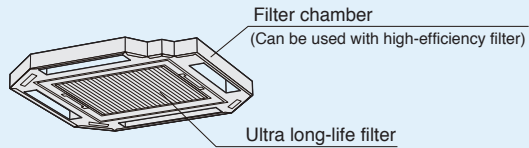
Just open the suction grille!

- With Ultra long-life filters (option), maintenance is not required in normal shops or offices for up to four years

Options required for specific operating environments

Ultra long-life filter unit

Even in dusty environments where the air conditioning is on most of the time, the ultra long-life filter only has to be cleaned once a year.



Dusty area: annual filter change

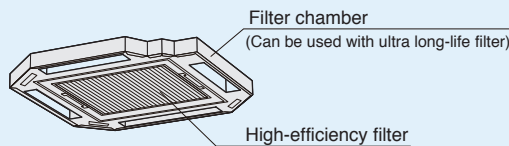
*For dust concentration of 0.3 mg/m³ (Requires separately sold Air purifier.)
1 year (Approx. 5,000 hr) ≈ 15 hr/day x 28 day/month x 12 month/year

Ordinary store or office: filter change every 4 years

*For dust concentration of 0.15 mg/m³
4 years (Approx. 10,000 hr) ≈ 8 hr/day x 25 day/month x 12 month/year x 4 years

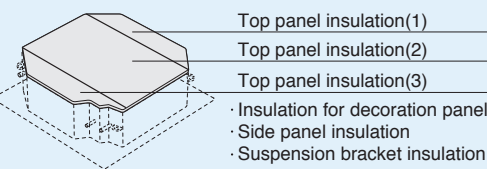
High-efficiency filter unit

Available in two types: 65% and 90% colorimetry.



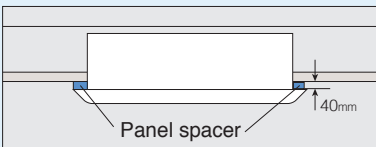
Insulation kit for high humidity

Please use if you think the temperature and humidity inside the ceiling exceeds 30°C and RH 80%, respectively.



Panel spacer

Use when only minimal space is available between drop ceilings and ceiling slabs.



Note: Some ceiling constructions may hinder installation.
Contact your Daikin Dealer before installing your unit.

Sealing material of air discharge outlet

Sealing material block air discharge openings not used in 2-way or 3-way blow.

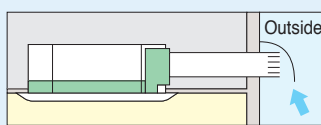
Branch duct (direct-connection round duct)

A round duct can be attached without the need for a chamber.

A flanged port for direct connection of a round duct is provided. An existing branch duct chamber can also be fitted (square slit hole).

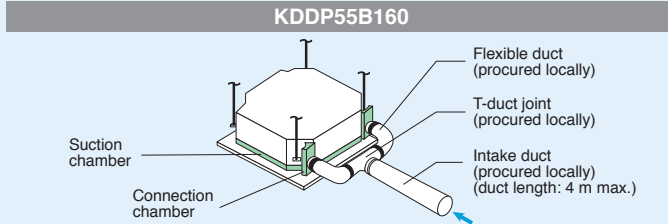
Fresh air intake kit

Using this kit, a duct can be fitted to increase the intake of outdoor air. There are two chamber types that have intake in two places: with T-duct joint and without T-duct joint.

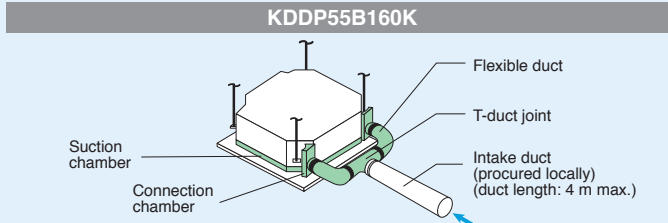


The units can be installed in the following different ways.

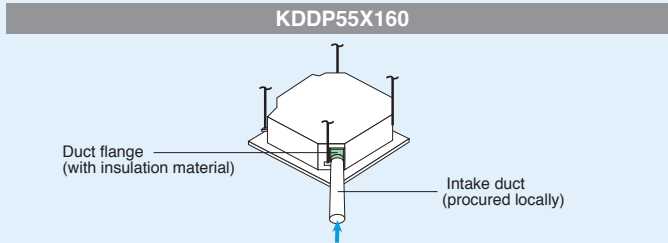
Chamber type (without T-duct joint)



Chamber type (with T-duct joint)



Direct installation type



Note: 1 Use of options will increase operating sound.
2 Connecting ducts, fan, insect nets, fire dampers, air filters, and other parts should, as required, be procured locally.
3 When a local-procured fan is used, an interlock with air conditioner is necessary. Optional PCB(KRP1C63) is required for interlocking.
4 It is recommended that the volume of outdoor air introduced through the kit is limited to 10% of the maximum airflow rate of the indoor unit. Introducing higher quantities will increase the operating sound and may also influence temperature sending.

Comfortable airflow travels throughout the room



Option

Accessory required for indoor unit.

Wired LCD remote controller



BRC1NU61

Note: Remote controller cable is not included and must be procured locally.

Wireless LCD remote controller

A signal receiver must be added to the indoor unit.



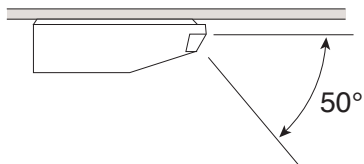
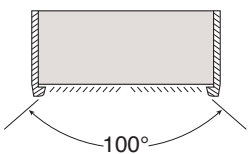
BRC7NU66



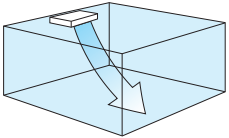
Signal receiver unit (Installed type)
Wireless remote controller is supplied in a set with a signal receiver.

Diffuses comfortable air throughout the room

- Auto-swing (up&down) brings comfort to the room
- Wide air discharge openings produce a spreading 100° airflow
- Air is blown up to 50° in the downward direction



- Installable on ceilings 3.5 m high



- Switchable fan speed: High/Low
- Programme "Dry"
Dehumidification is microprocessor controlled to prevent abrupt and uncomfortable changes in air temperature.

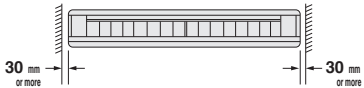
Installation flexibility for freedom of design

- Uniform height and depth. Compact design for small-capacity models to meet tighter dimensional constraints

Indoor unit	40M	50/60M	71/90M	100/125/140M
Height	195			
Width	960	1,160	1,400	1,590
Depth	680			

- Flexible installation

The unit fits more snugly into tight spaces.



*Water used in the test-run can be drained from the air discharge opening rather than from the side as was formerly the case.

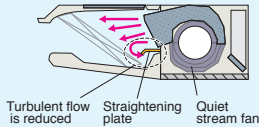
- All wiring and internal servicing can be done from under the unit
- Pipes more easily rigged
Plastic panels are used to conceal piping holes.
Holes can be easily punched out without requiring special tools.

Quiet operation

(220V) dB(A)

Indoor unit	Sound pressure level	
	High	Low
40M	43	39
50/60M	44	40
71/90M	45	40
100/125M	48	42
140M	49	43

Uses quiet stream fan and other quiet technologies.



Easy maintenance

- Long-life filter (standard) requires no maintenance for about 1 year*

The filter is washable and reused after 1 year.

* For dust concentration of 0.15 mg/m³

Two time settings (2500 hrs and 1250 hrs) are available to match the installation environment. Maintenance time warning is displayed on the wired remote controller (filter sign).

- Non-flocking flap

Condensation does not easily form on and dirt does not cling to non-flocking flap. It is easy to clean.



- Easy-clean, flat surfaces

It is easy to wipe dirt off the flat side and lower surfaces of the unit.

- For all maintenance tasks, access is from bottom surface

Oil resistant grille

- Oil-resistant plastic is used for the air suction grille. This satisfies durability in restaurants and other similar environments

Note: Intended for use in salons, dining rooms, and ordinary sales floors, this specification is not suitable for kitchens or other harsh environments.

Ideal for quiet, beautiful living spaces



Suitable for condominiums and apartments, houses and hotels

FDBNQ25/40/50/60/71MV1



Sound pressure level
43/40 dB(A)
High Low
FDBNQ71M (220V)

Option Accessory required for indoor unit

Wired LCD remote controller



BRC2E61

Note: Remote controller cable is not included and must be procured locally.

Navigation Remote Controller
(Wired Remote Controller)



BRC1E63

Note: Remote controller cable is not included and must be procured locally.

Wireless LCD remote controller
A signal receiver must be added to the indoor unit.

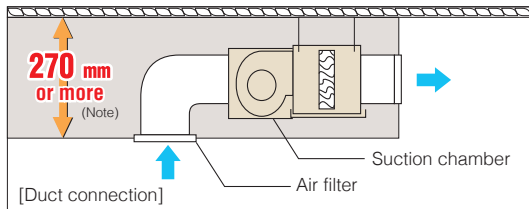


BRC4C64

Signal receiver unit
(Separate type)
Wireless remote controller is supplied in a set with a signal receiver.

Compact

- Small, lightweight, and easy-to-install indoor unit.



Note : 270 mm is the minimum size.
Extra height is necessary for drain piping slope and insulation.

* To prevent increased operation sound, avoid installing the air suction grille directly below the suction chamber.

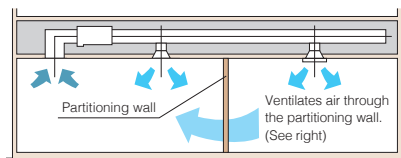
Quiet operation

(220V) dB(A)

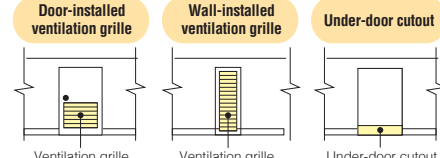
Indoor unit	Sound pressure level	
	High	Low
25/40/50M	41	38
60/71M	43	40

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.



Note: The under-door cutout method should be used only when there is a small volume of airflow.



Unit can be mounted in the ceiling and air can be delivered freely by duct



FDMNQ71/90/100/125/140MV1



Sound pressure level
45/37 dB(A)
High Low
FDMNQ100M (220V)

Option Accessory required for indoor unit

Wired LCD remote controller



BRC2E61

Note: Remote controller cable is not included and must be procured locally.

Navigation Remote Controller
(Wired Remote Controller)



BRC1E63

Note: Remote controller cable is not included and must be procured locally.

Wireless LCD remote controller
A signal receiver must be added to the indoor unit.

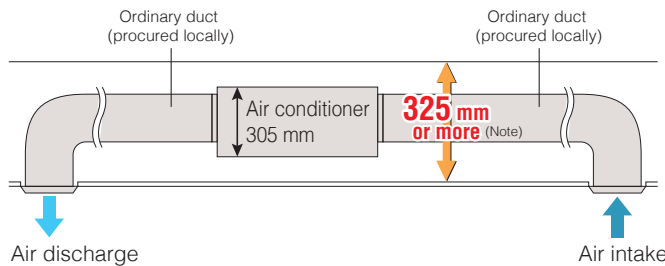


BRC4C64

Signal receiver unit
(Separate type)
Wireless remote controller is supplied in a set with a signal receiver.

Freedom of layout

- The duct system allows the efficient location of discharge outlets in accordance with the room layout
- Duct connection is simpler with standard rear suction chambers



Note : 325 mm is the minimum size.
Extra height is necessary for drain piping slope and insulation.

Quiet operation

(220V) dB(A)

Indoor unit	Sound pressure level	
	High	Low
71M	42	38
90M	44	36
100M	45	37
125/140M	46	37

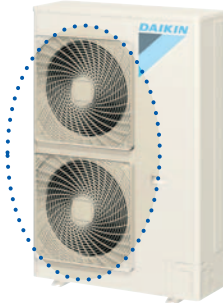
- Switchable fan speed: High/Low
- Drain pipe connection can be done inside the unit. Refrigerant and drain pipe outlets are at the same opening.



Quiet Operation

- Fitted with Super Aero Grille (Applies to RNQ90-140M)

To suppress turbulence and achieve quiet operation, the curved ribs of the grille are optimised to meet the outflow of air.



- Equipped with scroll compressor for quiet operation (Applies to RNQ125-140M)

Smooth running, minimal vibration, low operating sound.



- Operation sound

(In case of RNQ25-60M:220-240 V, RNQ71-100M:220 V/380 V, 240 V/415 V, RNQ125-140M:380 V, 415 V)

Outdoor unit	Sound pressure level dB(A)
RNQ25MV1	48
RNQ40MV1	49
RNQ50MV1	51
RNQ60MV1	52
RNQ71MV1/RNQ71MY1	54
RNQ90MV1/RNQ90MY1	55
RNQ100MV1/RNQ100MY1	54
RNQ125MY1	56
RNQ140MY1	58

Installation and maintenance

- Pre charged for up to 15 m (Applies to RNQ90-140M)

If refrigerant piping length does not exceed 10m (RNQ25-71M), 15m (RNQ90-140M), there is no need for on-site gas charging.

Allowed refrigerant piping length and level difference

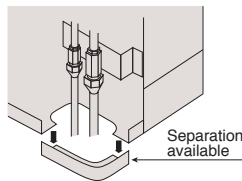
	RNQ25/40M	RNQ50/60M	RNQ71M	RNQ90-140M
Pre charged ¹	10 m			15 m
Max. length	30 m	30 m (Equivalent length 50m)	30 m (Equivalent length 50m)	50 m (Equivalent length 70m)
Max. level difference	10 m	15 m	20 m	30 m

Note:
¹Additional refrigerant charging is required if the refrigerant pipe is longer than the length.

- 4-direction piping offers greater layout freedom (Applies to RNQ90-140M)

The outer panel for the piping connection part of the front, right side and backside can be removed and is easier for post-installation piping work.

- Removable part of bottom frame makes the piping work easier (Applies to RNQ90-140M)



Durability

- As the bottom frame is subject to corrosion, corrosion-proof galvarium steel plate is adopted to enhance the durability

- Heat exchange fins are provided with anti-corrosion treatment (Applies to RNQ25-71, 100-140M)

To achieve increased durability by improved resistance to salt corrosion and atmospheric pollution, Anti corrosion treated fin for heat exchangers (with special coating) are used for the heat exchanger of the outdoor unit.

Construction

Non-treated fin	← Aluminium
Anti corrosion treated fin	← Hydrophilic treatment ← Aluminium ← Corrosion resistant resin

Whatever your space, give it the comfort it deserves



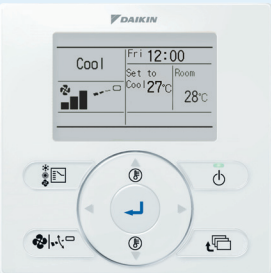
Easy-to-read LCD remote controller allows various system

control configurations and can control multiple indoor units.

Remote controller options are shown on the page introducing each indoor unit model.

Navigation Remote Controller

(Wired LCD Remote Controller)



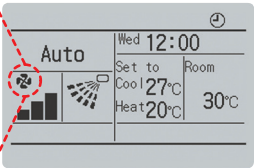
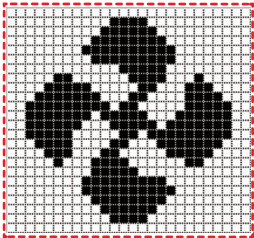
BRC1E63

This simple, modern designed remote controller with fresh white colour matches your interior design. Operation is much easier and smoother, just follow the indications on the navigation remote controller.

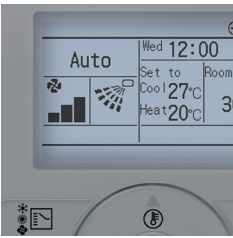
Clear Display

Dot matrix display

A combination of fine dots enables various icons. Large text display is easy to see.



Backlight display



Energy saving

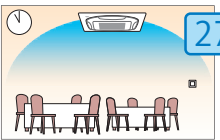
NEW Setpoint auto reset

- Even if the set temperature is changed, it returns to the preset temperature after a preset period of time.
- Period selectable from 30min/60min/90min/120min.

Restaurant sample

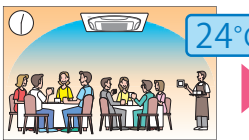
Restaurant opened

Temperature is set to 27°C



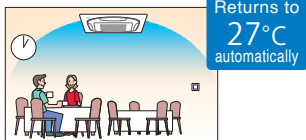
Full tables at lunchtime

Then is lowered to 24°C for crowded room



After 30 minutes*

Automatically returns to preset temperature (27°C)



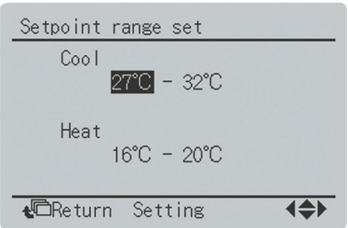
*Setting possible for after 30, 60, 90, and 120 minutes.

Off timer (programmed)

- Sets and saves setting for an increment of time that automatically turns off air conditioner after a preset period of time for each time operation starts.
- Period can be preset from 30 to 180 minutes in 10-minute increments.

NEW Setpoint range set

- Saves energy by limiting the min. and max. set temperature.
- Avoids excessive heating or cooling.
- This function is convenient when the remote controller is installed at a place where any number of people may operate it.



Convenience

Weekly schedule

- 5 actions per day can be scheduled for each day of the week.
- The holiday function will disable schedule timer for the days that have been set as holiday.

NEW 3 independent schedules can be set. (e.g. summer, winter, mid-season)

Schedule nr 1				
	Time	Act	Cool	Heat
Mon	8:30	ON	25°C	—°C
	10:00	OFF	—°C	—°C
	13:00	ON	25°C	—°C
	15:00	OFF	—°C	—°C
	—	—	—	—

Multilingual display

Display is available in 11 languages.

(English, German, French, Spanish, Italian, Portuguese, Greek, Dutch, Russian, Turkish, and Polish).

Wired LCD remote controller

Easy operation with new intuitive design.



BRC2E61

- Simple operation with the use of six buttons. Users have direct access to basic functions and can easily set their preferred comfort.
- Intuitive design with the use of pictograms and user-friendly interface.
- Compact size with measurements of 85 x 85 x 19mm.

Wired remote controller has built-in temperature-sensor

(Applies to wired remote controllers (BRC2E61/BRC1E63))

- Enables temperature sensing closer to target area for improved comfort. (When using remote control from another room, temperature-sensor in indoor unit's air inlet must be selected.)

Facilitates maintenance and repair

- All initial settings can be set from the remote controller. After interior construction is complete, ceiling mounted cassette type can be remotely set without having to use stepladder access for manual setting.

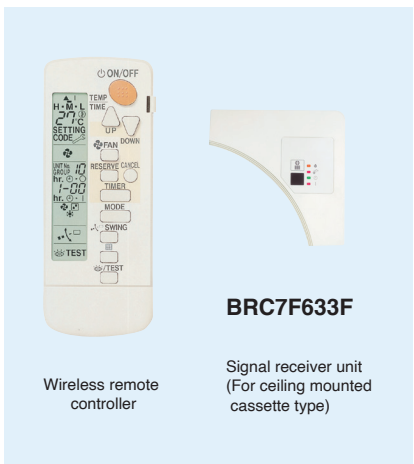
Setting contents: High ceiling use, air direction, filter type, address for centralised control (group control address is set automatically).

- Remote controller is equipped with model name and failure display functions. This facilitates service in the unlikely event of a malfunction. (Model name display function applies to BRC1E63 only.)

SkyAir shares common control with Heat Reclaim Ventilator and the other Daikin air-conditioning units, thus simplifying interlocking operations.

- Easily adaptable to large-scale, high-function, centralised remote control systems. Installing and connecting control wiring between SkyAir and other Daikin air-conditioning equipment is easy.

Wireless LCD remote controller



Wireless remote controller

BRC7F633F

Signal receiver unit (For ceiling mounted cassette type)

- The wireless remote controller is supplied in a set with a signal receiver.
- Signal receiver unit is contained inside decoration panel or indoor unit.
- Shape of signal receiver unit differs according to the indoor unit.

Note: The signal receiver unit shown in the photograph is for mounting inside the decoration panel of the ceiling mounted cassette type.

Wireless remote controller for each indoor unit type

CEILING MOUNTED CASSETTE TYPE	BRC7F633F
CEILING SUSPENDED TYPE	BRC7NU66
DUCT CONNECTION LOW STATIC PRESSURE TYPE	BRC4C64
DUCT CONNECTION MIDDLE STATIC PRESSURE TYPE	BRC4C64

LCD panel shows operating status in letters, numbers, and motion.

Airflow / swing display

Displays auto-swing operating status and setting position of air discharge angle.

Preset temperature / operation mode display

Displays preset room temperature and operating status (fan, dry, cool).















Programming time display

Operation start and stop time can be set for individual timers up to 72 hours. The LCD also shows when it is time to clean the filter, when changeover is under centralised control, and ventilation/cleaning.

Self-diagnosis function





Monitors operating status within the system covering 40 items, and displays a message to indicate as soon as a malfunction occurs.

System variation to control multiple indoor units

	Control pattern	Applicable model	Wired remote controller	Wireless remote controller
Control by 1 remote controller	(Basic system)	FCNQ	 ● Non-polar, double-core (max. wiring length 500 m)	 ● Signal receiver unit installed on indoor unit
Control by 2 remote controllers	For control from 2 locations such as in room and control room, exits, etc.	FDBNQ	 ● Connects 2 wired remote controllers (See note 1)	 ● Control by 1 wireless remote controller and 1 wired remote controller (See note 2, 3) ● Signal receiver unit installed on indoor unit
Group control	For simultaneous control of up to 16 indoor units.	FDMNQ	 ● Automatic address setting function	 ● Automatic address setting function ● Signal receiver unit installed on 1 indoor unit
Control by external command	Operation and monitoring is carried out using the contact signal from the operation control box in the monitoring room.		 (Command from outside) ● Optional wiring adaptor for electrical appendices is necessary	 (Command from outside) ● Optional wiring adaptor for electrical appendices is necessary
Centralised remote control	Centralised control of up to 64 indoor groups from remote location up to 1 km away.	FCNQ only	 Central remote controller (option)	 Central remote controller (option)
Interlock control with Heat Reclaim Ventilator	Link by remote controller group control.		 ● Can be operated simultaneously or independently by remote controller (set by ventilation mode)	 ● Can be operated simultaneously by remote controller (set by ventilation mode)
	Zone link control by centralised control.		 ● Heat Reclaim Ventilator for indoor units within a zone are operated by interlocking Can also be operated independently by remote controller.	 ● Heat Reclaim Ventilator for indoor units within a zone are operated by interlocking

Note: ¹BRC1E62 can connect to BRC1E63 only. ²It is not possible to use two wireless remote controllers. ³BRC1E62 cannot connect to wireless remote controller.

Easily adaptable to large-scale, high-function, centralised remote control system.

Central remote controller	Unified on/off controller	Schedule timer	FCNQ series only
DCS302CA61 (Option)	DCS301BA61 (Option)	DST301BA61 (Option)	Intelligent Controller DCS601C51 (Option)
			
Centralised control, with setting as simple as it is with a standard remote controller, of up to 64 groups (1,024 indoor units) is possible.	Centralised control of on/off by group or all at once for up to 256 indoor units.	Unified control of weekly schedule for up to 1,024 indoor units. Schedule timer sets on/off time in 1 minute units to be executed twice a day for a week at a time.	With its high functionality, the full colour "all-in-one" graphic controller facilitates management of SkyAir System in a variety of ways.

Functions overview

Cooling only

		CEILING MOUNTED CASSETTE TYPE (Round Flow)	CEILING SUSPENDED TYPE	DUCT CONNECTION LOW STATIC PRESSURE TYPE	DUCT CONNECTION MIDDLE STATIC PRESSURE TYPE
	Indoor unit	FCNQ40-140MV1	FHNQ40-140MV1	FDBNQ25-71MV1	FDMNQ71-140MV1
	Outdoor unit	RNQ40-100MV1 RNQ71-140MY1	RNQ40-100MV1 RNQ71-140MY1	RNQ25-71MV1 RNQ71MY1	RNQ71-100MV1 RNQ71-140MY1
Comfort	Auto swing	●	●		
	Swing pattern selection	●			
	DC fan motor (Indoor unit)	●			
	Switchable fan speed	● 2step	● 2step	● 2step	● 2step
	Programme "Dry"	●	●	●	●
	High ceiling application	●	● *6		
Remote Controller	Two selectable temperature-sensors *1	●		●	●
	Setpoint auto reset *2	●		●	●
	Setpoint range set *2	●		●	●
	Weekly schedule timer *2	●		●	●
	Off timer (programmed) *2	●		●	●
Cleanliness	On/Off timer	● *7	●	● *7	● *7
	Anti-bacterial air filter	●	●		
Work & servicing	Drain pump mechanism	●			
	Pre-charged for up to 15 m *3	●	●		●
	Pre-charged for up to 10 m *4	●	●	●	●
	Long-life filter	●	●		
	Filter sign	●			
	Ceiling soiling prevention	●			
Control features	Auto-restart	●	●	●	●
	Control by 2 remote controllers	●		●	●
	Group control by 1 remote controller	●		●	●
	External command control	● *8			
	Central remote control	●			
	Interlock control with Heat Reclaim Ventilator	●			
	DIII-NET communication standard	●			
Options	High-efficiency filter	●			
	Ultra long-life filter	●			
	Fresh air intake kit	●			
Others	Anti corrosion treated heat exchangers *5	●	●	●	●

Note*1 : Applicable when wired remote controller is used

*2 : Applicable when BRC1E63 is used

*3 : Applicable to RNQ90-140M

*4 : Applicable to RNQ25-71M

*5 : For outdoor units

*6 : Installable on max. 3.5 m high ceiling

*7 : Applicable when BRC2E61 is used

*8 : Option

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

• Note: Some functions only available on selected models. See overview page for full list of features applicable to each unit.

Comfort

Auto-swing

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

■ The air flow direction can be fixed at your desired angle by the remote controller.

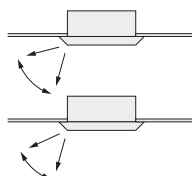
Swing pattern selection

(standard, ceiling soiling prevention)

You can freely set 2 air discharge setting by remote controller.

(1) Standard setting

(2) Ceiling soiling prevention setting



DC fan motor (indoor unit)

DC fan motor improves efficiency.

Switchable fan speed

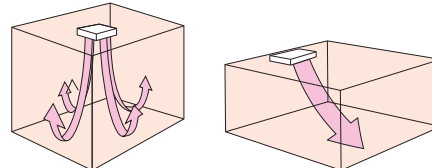
High setting provides maximum reach while low setting minimises drafts.

Programme "Dry"

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

High-ceiling application

Delivers air-conditioning comfort all the way down to the floor in air-conditioning zones with high ceilings.



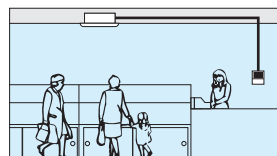
Note: When units are installed on high ceilings, depending on the model, various restrictions concerning maximum height, air discharge direction, and choice of options may apply.

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.

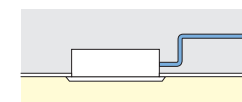
Note: Wireless remote controllers have no temperature-sensor.



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 charged for up to 15 m

If refrigerant piping length does not exceed 15 m, there is no need for on-site gas charging.

*Applicable to R900-140M.
R9025-71M : 10 m

Long-life filter

Maintenance is not required for one year. The filter is washable and can be reused.

*For dust concentration of 0.15 mg/m³

Filter sign

The filter sign warns you when it is time to clean the filter.

*When using a wired remote controller the sign is displayed in the LCD. When using a wireless remote controller the filter sign lamp illuminates on the signal receiver unit.

Ceiling soiling prevention function

Daikin's innovative air discharge mechanism keeps airflow away from the ceiling. Ceiling cleaning is less frequently required.

Control features

Auto-restart

If there is a power outage while the equipment is operating, operations will restart in the same mode as before the power cut when electricity is restored.

Control by 2 remote controllers

Using 2 remote controllers you can operate the equipment locally or from a remote location.

Note: When a wireless remote controller is used, remote control by two remote controllers is not possible.

Group control by 1 remote controller

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

Operation and monitoring is carried out using the contact signal from the operation control box in the building monitoring room.

*An option is required.

Central remote control

Optional central remote controller enables centralised control of up to 1024 indoor units (64 groups) from up to 1 km away.

Interlock control with Heat Reclaim Ventilator

Enables interlocking control with external equipment such as Heat Reclaim Ventilator.

DI-II-NET communication standard

Standardly equipped interface enables connection to centralised control system without need of an adaptor.

Remote Controller

Setpoint auto reset

Even if the set temperature is changed, it returns to the preset temperature after a preset period of time.

Setpoint range set

Saves energy by limiting the minimum and maximum set temperatures. Avoids excessive heating and cooling.

Weekly schedule timer

Up to five operation ON/OFF settings can be programmed per day for each day of the week. Not only can the time be set for the operation ON setting, but also the temperature.

Off timer (programmed)

Sets and saves setting for an increment of time that automatically turns off air conditioner after a preset period of time for each time operation starts.

On/Off timer

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

Options

High-efficiency filter

Two types are available: 65% and 90% colorimetry.

Ultra long-life filter

Requires no maintenance for about 4 years* (10,000h) in stores and offices.

*For dust concentration of 0.15 mg/m³

Fresh-air intake kit

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

Cleanliness

Anti-bacterial air filter

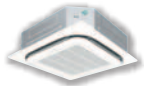
The air filter has an anti-bacterial treatment to help prevent the growth of bacteria and mould on it.

Others

Anti corrosion treated heat exchangers

To achieve increased durability by improved resistance to salt corrosion and atmospheric pollution, Anti corrosion treated fin for heat exchangers (with special coating) are used for the heat exchanger of the outdoor unit. In high corrosive areas, regular maintenance needs to be carried out.

SPECIFICATIONS



CEILING MOUNTED CASSETTE TYPE

			40	50	60	71	90	100	125	140	
Model Name	Indoor unit		FCNQ40MV1	FCNQ50MV1	FCNQ60MV1	FCNQ71MV1	FCNQ90MV1	FCNQ100MV1	FCNQ125MV1	FCNQ140MV1	
	Outdoor unit		V1	RNQ50MV1	RNQ60MV1	RNQ71MV1	RNQ90MV1	RNQ100MV1	—	—	
Power supply	Outdoor unit	Y1	1 Phase, 220–240 V, 50 Hz						—		
		Y1	3 Phase, 380–415 V, 50 Hz								
Cooling capacity ^{1,2}		kW	3.8	5.3	6.2	7.6	8.8	10.6	12.5	14.1	
		Btu/h	13,000	18,000	21,000	26,000	30,000	36,000	42,600	48,000	
Power consumption		Cooling ¹	kW	1.24	1.89	2.21	2.53	2.73	3.31	4.15	
COP		W/W	3.07	2.80	2.80	3.00	3.22	3.20	3.01	2.80	
Indoor unit	Colour	Unit	—								
	Decoration panel		Fresh white								
	Airflow rate (H/L)		m ³ /min	13/10		21/13.5		32/20		33/22.5	
			cfm	459/353		741/477		1,130/706		1,165/794	
	Sound pressure level (H/L) ³		dB(A)	31/28		35/28		43/32		44/34	
										44/36	
	Dimensions (H×W×D)		Unit	mm				256×840×840			
			Decoration panel	mm				50×950×950			
Machine weight	Unit	kg	19.5			21		24			
	Decoration panel	kg				5.5					
Certified Operation range		°CWB	14 to 23				14 to 25				
Outdoor unit	Colour		Ivory white								
	Compressor	Type	Hermetically sealed rotary type						Hermetically sealed scroll type		
		Motor output	kW	0.9	1.4	1.8	2.2		2.7	3.75	4.5
	Refrigerant charge (R-410A)		kg	1.2 (Charged for 10 m)	1.4 (Charged for 10 m)	1.5 (Charged for 10 m)	2.0 (Charged for 10 m)	1.9 (Charged for 15 m)	3.2 (Charged for 15 m)	2.7 (Charged for 15 m)	3.2 (Charged for 15 m)
	Sound pressure level ³		dB(A)	49	51	52	54	55	54	56	58
	Dimensions (H×W×D)		mm	550×765×285		595×845×300		735×825×300		990×940×320	
	Machine weight		kg	36	40	49	56	77	99	—	—
	V1	—		—	—	56	74	99	107	111	
			Y1								
	Certified Operation range		°CDB	19.4 to 46				21 to 46			
Piping connections	Liquid (Flare)		mm		ø6.4		ø9.5				
	Gas (Flare)		mm		ø12.7		ø15.9				
	Drain	Indoor unit	mm								
		Outdoor unit	mm								
Max. interunit piping length			m	30			30 (Equivalent length 50)		50 (Equivalent length 70)		
Max. installation level difference			m	10	15		20		30		
Heat insulation			Both liquid and gas piping								



CEILING SUSPENDED TYPE

			40	50	60	71	90	100	125	140	
Model Name	Indoor unit		FHNQ40MV1	FHNQ50MV1	FHNQ60MV1	FHNQ71MV1	FHNQ90MV1	FHNQ100MV1	FHNQ125MV1	FHNQ140MV1	
	Outdoor unit		V1	RNQ40MV1	RNQ50MV1	RNQ60MV1	RNQ71MV1	RNQ90MV1	RNQ100MV1	—	
Power supply	Outdoor unit	Y1	—	—	—	RNQ71MY1	RNQ90MY1	RNQ100MY1	RNQ125MY1	RNQ140MY1	
		V1	1 Phase, 220–240 V, 50 Hz							—	
Cooling capacity ^{1,2}		Y1	—				3 Phase, 380–415 V, 50 Hz				
		kW	3.8	5.3	6.2	7.6	8.8	10.4	12.3	14.1	
		Btu/h	13,000	18,000	21,000	26,000	30,000	35,000	42,000	48,000	
Power consumption	Cooling ¹	kW	1.58	2.04	2.38	2.65	3.07	3.64	4.51	5.51	
COP		W/W	2.40	2.60	2.60	2.87		2.86	2.73	2.56	
Indoor unit	Colour		White								
	Airflow rate (H/L)	m ³ /min	16/-	22-23/19-20			26-27/22-23		38-40/23-25		42-44/24-26
		cfm	565/-	777-812/671-706			918-953/777-812		1,341-1,412/812-883		1,483-1,553/847-918
	Sound pressure level (H/L) (220 V) ³	dB(A)	43/39	44/40			45/40		48/42		49/43
	Dimensions (H×W×D)	mm	195×960×680	195×1,160×680			195×1,400×680		195×1,590×680		
	Machine weight	kg	24	26			32		35		
Certified operation range		°CWB	14 to 23				14 to 25				
Outdoor unit	Colour		Ivory white								
	Compressor	Type	Hermetically sealed rotary type						Hermetically sealed scroll type		
		Motor output	kW	0.9	1.4	1.8	2.2		2.7	3.75	4.5
	Refrigerant charge (R-410A)	kg	1.2 (Charged for 10 m)	1.4 (Charged for 10 m)	1.5 (Charged for 10 m)	2.0 (Charged for 10 m)	1.9 (Charged for 15 m)	3.2 (Charged for 15 m)	2.7 (Charged for 15 m)	3.2 (Charged for 15 m)	
	Sound pressure level ³	dB(A)	49	51	52	54	55	54	56	58	
	Dimensions (H×W×D)	mm	550×765×285	595×845×300			735×825×300	990×940×320	1,345×900×320		
	Machine weight	V1	kg	36	40	49	56	77	99	—	—
		Y1	kg	—	—	—	56	74	99	107	111
	Certified operation range		°CDB	19.4 to 46				21 to 46			
Piping connections	Liquid (Flare)		mm	ø6.4			ø9.5				
	Gas (Flare)		mm	ø12.7			ø15.9				
	Drain	Indoor unit	mm	VP20 (I.Dø20×O.Dø26)							
Outdoor unit		mm	ø18.0 (Hole)				ø26.0 (Hole)				
Max. interunit piping length			m	30			30 (Equivalent length 50)	50 (Equivalent length 70)			
Max. installation level difference			m	10	15			20	30		
Heat insulation			Both liquid and gas piping								

Note :
¹Rated cooling capacities are based on the following conditions: Indoor temp., 27°CDB, 19.0°CWB; outdoor temp. 35°CDB, 24°CWB. Equiv. refrigeration piping, 7.5 m (horizontal).
²Capacities are net, including a deduction for cooling for indoor fan motor heat.
³Anechoic chamber conversion value, measured according to JIS parameters and criteria. During operation these values are somewhat higher owing to ambient conditions.



DUCT CONNECTION LOW STATIC PRESSURE TYPE

				25	40	50	60	71	
Model Name	Indoor unit			FDBNQ25MV1	FDBNQ40MV1	FDBNQ50MV1	FDBNQ60MV1	FDBNQ71MV1	
	Outdoor unit			V1	RNQ25MV1	RNQ40MV1	RNQ50MV1	RNQ60MV1	
Power supply	Outdoor unit			Y1	_____	_____	_____	_____	
				Y1	1 Phase, 220–240 V, 50 Hz				
Cooling capacity ^{1,2}				V1	3 Phase, 380–415 V, 50 Hz				
				Y1					
				kW	2.7	3.8	5.2	6.2	
				Btu/h	9,200	13,000	17,700	21,000	
Power consumption		Cooling ¹		kW	0.86	1.28	2.06	2.38	
COP				W/W	3.14	2.97	2.52	2.60	
Indoor unit	Colour			_____					
	Fan	Airflow rate (H/L) ³		m ³ /min	13/11				
				cfm	459/388				
	Rated external static pressure ³			mmH ₂ O	2.0				
	Sound pressure level (H/L) (220 V) ⁴			dB(A)	41/38				
	Dimensions (H×W×D)			mm	260×900×580				
	Machine weight			kg	25				
	Certified Operation range			°CWB	14 to 23				
Outdoor unit	Colour			Ivory white					
	Compressor		Type	Hermetically sealed rotary type					
	Motor output		kW	0.65	0.9	1.4	1.8	2.2	
	Refrigerant charge (R-410A)		kg	0.9 (Charged for 10 m)	1.2 (Charged for 10 m)	1.4 (Charged for 10 m)	1.5 (Charged for 10 m)	2.0 (Charged for 10 m)	
	Sound pressure level ⁴		dB(A)	48	49	51	52	54	
	Dimensions (H×W×D)		mm	550×765×285				595×845×300	735×825×300
	Machine weight		V1	kg	35	36	40	49	56
Y1			_____	_____	_____	_____	_____		
Certified Operation range				°CDB	19.4 to 46				21 to 46
Piping connections	Liquid (Flare)			mm	ø6.4				ø9.5
	Gas (Flare)			mm	ø9.5	ø12.7			ø15.9
	Drain			mm	3/4B (I.Dø21.6×O.Dø27.2)				
Max. interunit piping length				m	ø18.0 (Hole)				
Max. installation level difference				m	30				30 (Equivalent length 50 m)
Heat insulation					10				15
					Both liquid and gas piping				20



DUCT CONNECTION MIDDLE STATIC PRESSURE TYPE

				71	90	100	125	140			
Model Name	Indoor unit			FDMNQ71MV1	FDMNQ90MV1	FDMNQ100MV1	FDMNQ125MV1	FDMNQ140MV1			
	Outdoor unit			RNQ71MV1	RNQ90MV1	RNQ100MV1	——	——			
Power supply	Outdoor unit			V1	1 Phase, 220–240 V, 50 Hz			——			
				Y1	3 Phase, 380–415 V, 50 Hz						
Cooling capacity ^{1,2}				kW	7.6	8.8	10.6	12.3	14.1		
				Btu/h	26,000	30,000	36,000	42,000	48,000		
Power consumption	Cooling ¹			kW	2.62	3.03	3.53	4.49	5.56		
COP				W/W	2.90	2.90	3.00	2.74	2.54		
Indoor unit	Colour			——							
	Fan	Airflow rate (H) ³		m ³ /min	23			37		42	
				cfm	812			1,306		1,483	
	Rated external static pressure ³			mmH ₂ O	8.5		9.8		8.0		
	Sound pressure level (H/L) (220 V) ⁴			dB(A)	42/38		44/36		45/37	46/37	
	Dimensions (H×W×D)			mm	305×1,350×680					305×1,550×680	
	Machine weight			kg	43		52				
	Certified Operation range			°CWB	14 to 25						
Outdoor unit	Colour			Ivory white							
	Compressor		Type	Hermetically sealed rotary type			Hermetically sealed scroll type				
				2.2			2.7		3.75	4.5	
	Refrigerant charge (R-410A)			kg	2.0 (Charged for 10 m)		1.9 (Charged for 15 m)		3.2 (Charged for 15 m)	2.7 (Charged for 15 m)	3.2 (Charged for 15 m)
	Sound pressure level ⁴			dB(A)	54		55		54	56	58
	Dimensions (H×W×D)			mm	735×825×300					990×940×320	1,345×900×320
	Machine weight		V1	kg	56		77		99	——	——
					Y1	56		74		99	107
Certified Operation range				°CDB	21 to 46						
Piping connections	Liquid (Flare)			mm	ø9.5						
	Gas (Flare)			mm	ø15.9						
	Drain		Indoor unit	mm	3/4B (L.Dø21.6×O.Dø27.2)						
Max. interunit piping length				m	ø18.0 (Hole)		ø26.0 (Hole)				
					(Equivalent length 50 m)		(Equivalent length 70 m)				
Max. installation level difference				m	20						
Heat insulation					Both liquid and gas piping						

Indoor unit

CEILING MOUNTED CASSETTE TYPE

Name of option			Remark		Kit name							
					FCNQ40MV1	FCNQ50MV1	FCNQ60MV1	FCNQ71MV1	FCNQ90MV1	FCNQ100MV1	FCNQ125MV1	FCNQ140MV1
Decoration panel					BYCP125K-W1							
Sealing material of air discharge outlet					KDBH55K160F							
Panel spacer					KDBP55H160FA							
Fresh air intake kit ¹	Chamber type	Without T-duct joint		KDDP55B160								
		With T-duct joint		KDDP55B160K								
	Direct installation type		KDDP55X160									
High-efficiency filter unit (including filter chamber)			(Colorimetric method 65%)		KAFP556B80						KAFP556B160	
			(Colorimetric method 90%)		KAFP557B80						KAFP557B160	
Replacement high-efficiency filter			(Colorimetric method 65%)		KAFP552B80						KAFP552B160	
			(Colorimetric method 90%)		KAFP553B80						KAFP553B160	
Filter chamber					KDDFP55B160							
Replacement long-life filter					KAFP551K160							
Ultra long-life filter unit (including filter chamber)					KAFP55B160							
Replacement ultra long-life filter					KAFP55H160H							
Branch duct chamber					KDJP55B80						KDJP55B160	
Chamber connection kit ²					KKSJ55KA160							
Insulation kit for high humidity					KDTP55K80						KDTP55K160	
Remote controller			Wireless type	Cooling only	BRC7F633F							
			Wired type ³		BRC2E61							
Navigation Remote Controller			Wired type ³		BRC1E63							
Central remote controller ⁴					DCS302CA61							
Unified ON/OFF controller ⁴					DCS301BA61							
Schedule timer ⁴					DST301BA61							
intelligent Touch Controller ⁴					DCS601C51							
Adaptor for wiring ⁵					KRP1C63							
Wiring adaptor for electrical appendices(2) ⁵					KRP4AA53							
Installation box for adaptor PCB					KRP1H98							
Remote sensor (for indoor temperature)					BRCS01A-4							

Note: ¹Refer to page 6 for the details.
²Required for installing high-efficiency filter and ultra long-life filter unit.
³Wiring for wired remote controller to be procured locally.
⁴The indoor unit is equipped standardly with the interface adaptor for SkyAir series. An option is unnecessary.
⁵Installation box for adaptor PCB (KRP1H98) is necessary.

Round flow type: List of optional parts required to achieve different flow patterns

For each flow pattern – all round, 4-way, 3-way, 2-way, branch duct connection – the compatibility of each independently installed option (shown in the column on the left) to accessory options (listed across the top of each table) is shown in the cells where the relevant row and column intersect. A circle (O) indicates compatibility, and a cross (X) indicates incompatibility. Any options not shown below are not suitable for independent or accessory installation.

All round flow 4-way flow

Optional accessory parts		Panel spacer¹	Wireless remote controller	Fresh air intake kit (Chamber type)¹,²	Fresh air intake kit (direct mount)	High-humidity operation kit	High-efficiency filter²	Ultra-long-life filter²
Independently installable optional parts	Panel/grille related	Panel spacer¹	O	O	O	X	O	O
	Operation control related	Wireless remote controller	O	O	O	O	O	O
Auxillary function related	Fresh air intake kit (Chamber type)¹,²	O	O		X	X	O	O
	Fresh air intake kit (direct mount)	O	O	X		O	O	O
	High-humidity operation kit	X	O	X	O		X	X
Filter related	High-efficiency filter²	O	O	O	O	X		X
	Ultra-long-life filter²	O	O	O	O	X	X	

3-way flow 2-way flow

Optional accessory parts		Panel spacer¹	Wireless remote controller	Fresh air intake kit (Chamber type)¹,²	Fresh air intake kit (direct mount)	High-humidity operation kit	High-efficiency filter²	Ultra-long-life filter²
Independently installable optional parts	Panel/grille related	Panel spacer¹	O³	O³	O³	X	X	O³
	Operation control related	Wireless remote controller	O³	O	O	O	X	O
Auxillary function related	Fresh air intake kit (Chamber type)¹,²	O³	O		X	X	X	O
	Fresh air intake kit (direct mount)	O³	O	X		O	X	O
	High-humidity operation kit	X	O	X	O		X	X
Filter related	Ultra-long-life filter²	O³	O	O	O	X	X	

Branch duct connection

Optional accessory parts		Panel spacer¹	Wireless remote controller	Fresh air intake kit (Chamber type)¹,²	Fresh air intake kit (direct mount)	High-humidity operation kit	High-efficiency filter²	Ultra-long-life filter²
Independently installable optional parts	Branch duct¹	1-way branch / unit 3-way flow	O	O	O⁴	X	X	O
	(Chamber type)	2-way branch / unit 2-way flow	X	O	O⁴	X	X	O
(Round duct type)		1-way branch / unit 2-way flow	X	O	O⁴	X	X	O

¹In some cases, depending on how the unit is embedded in the ceiling, use of branch ducts and fresh air intake kits may not be possible. Before starting installation work make sure to check whether or not joint installation is possible. In particular, ensure that the lower fixing position caused by the addition of panel spacers is acceptable.
²Use a chamber connection kit if two different types of optional chamber are used together. In this case, the fresh air intake kit must be installed in the upper position.
³It is not possible to use panel spacers in a 2-way flow installation.
⁴It is not possible to install a branch duct on the same side to which a fresh air intake kit (direct mount) is installed.

Indoor unit

CEILING SUSPENDED TYPE

Name of option	Remark	Kit name							
		FHNQ40MV1	FHNQ50MV1	FHNQ60MV1	FHNQ71MV1	FHNQ90MV1	FHNQ100MV1	FHNQ125MV1	FHNQ140MV1
Replacement long-life filter		KAF501DA56	KAF501DA80		KAF501DA112		KAF501DA160		
L-type piping kit (for upward direction)		KHFJ5F50		KHFJ5F60	KHFP5MA160				
Remote controller	Wireless type	BRC7NU66							
	Wired type ¹	BRC1NU61							

Note: ¹Wiring for wired remote controller to be procured locally.

DUCT CONNECTION LOW STATIC PRESSURE TYPE

Name of option	Remark	Kit name				
		FDBNQ25MV1	FDBNQ40MV1	FDBNQ50MV1	FDBNQ60MV1	FDBNQ71MV1
Remote controller	Wireless type	BRC4C64				
	Wired type ¹	BRC2E61				
Navigation Remote Controller	Wired type ¹	BRC1E63				

Note: ¹Wiring for wired remote controller to be procured locally.

DUCT CONNECTION MIDDLE STATIC PRESSURE TYPE

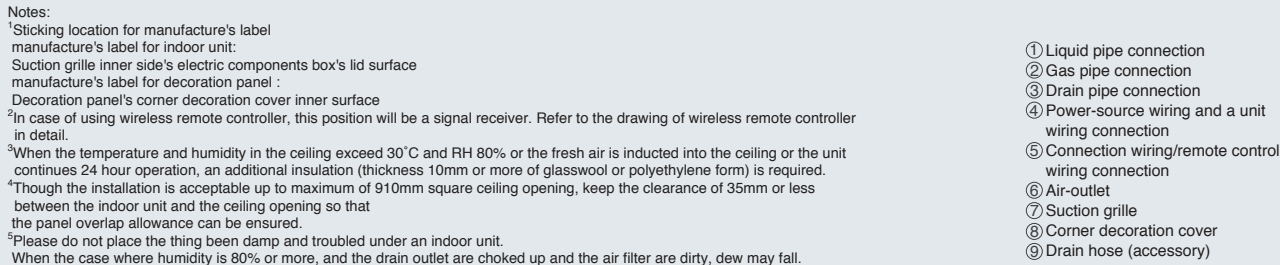
Name of option	Remark	Kit name				
		FDMNQ71MV1	FDMNQ90MV1	FDMNQ100MV1	FDMNQ125MV1	FDMNQ140MV1
Remote controller	Wireless type	BRC4C64				
	Wired type ¹	BRC2E61				
Navigation Remote Controller	Wired type ¹	BRC1E63				

Note: ¹Wiring for wired remote controller to be procured locally.

Outdoor unit

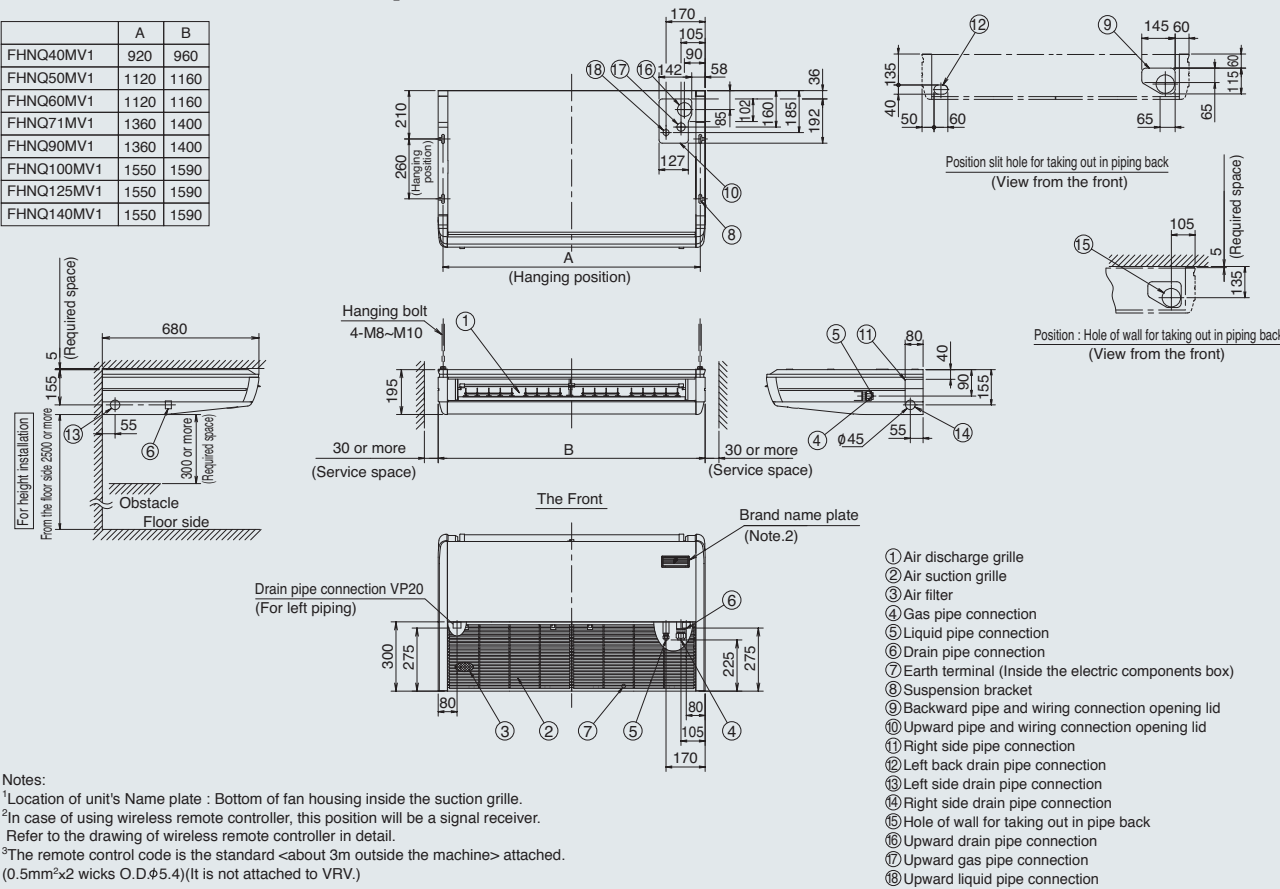
Name of option	Kit name									
	RNQ25MV1	RNQ40MV1	RNQ50MV1	RNQ60MV1	RNQ71MV1	RNQ90MV1	RNQ100MV1	—	—	—
	—	—	—	—	RNQ71MY1	RNQ90MY1	RNQ100MY1	RNQ125MY1	RNQ140MY1	—
Central drain plug	—		KKP014A4		—	KKPJ5F180				

CEILING MOUNTED CASSETTE TYPE

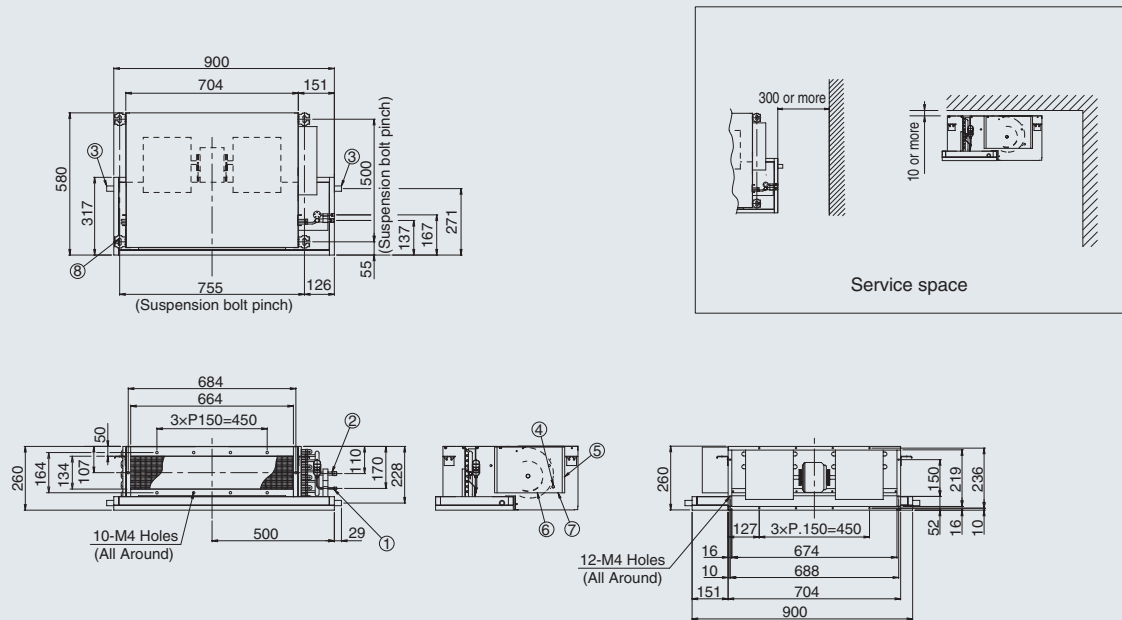


[FHNQ40/50/60/71/90/100/125/140MV1]

	A	B
FHNQ40MV1	920	960
FHNQ50MV1	1120	1160
FHNQ60MV1	1120	1160
FHNQ71MV1	1360	1400
FHNQ90MV1	1360	1400
FHNQ100MV1	1550	1590
FHNQ125MV1	1550	1590
FHNQ140MV1	1550	1590



[FDBNQ25/40/50MV1]

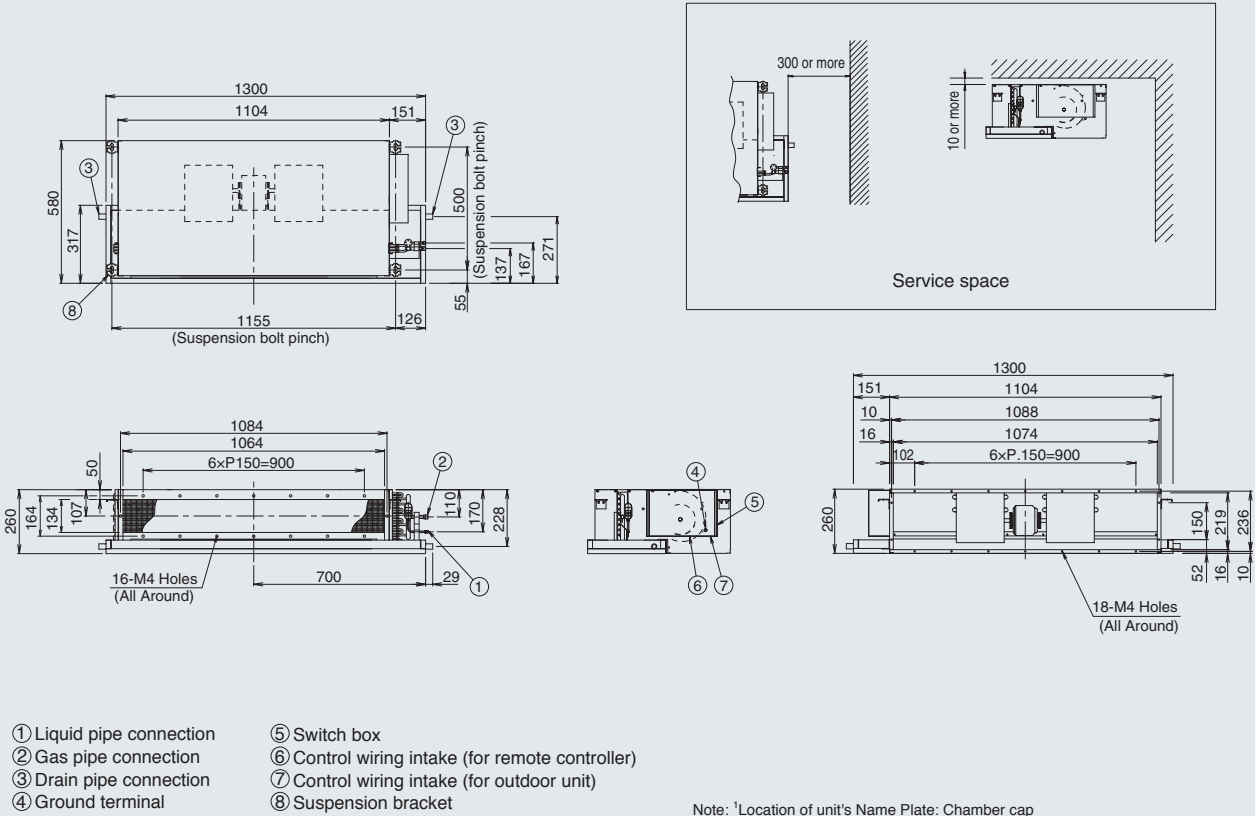


- | | |
|--------------------------|---|
| ① Liquid pipe connection | ⑤ Switch box |
| ② Gas pipe connection | ⑥ Control wiring intake (for remote controller) |
| ③ Drain pipe connection | ⑦ Control wiring intake (for outdoor unit) |
| ④ Ground terminal | ⑧ Suspension bracket |

Note: ¹Location of unit's Name Plate: Chamber cap

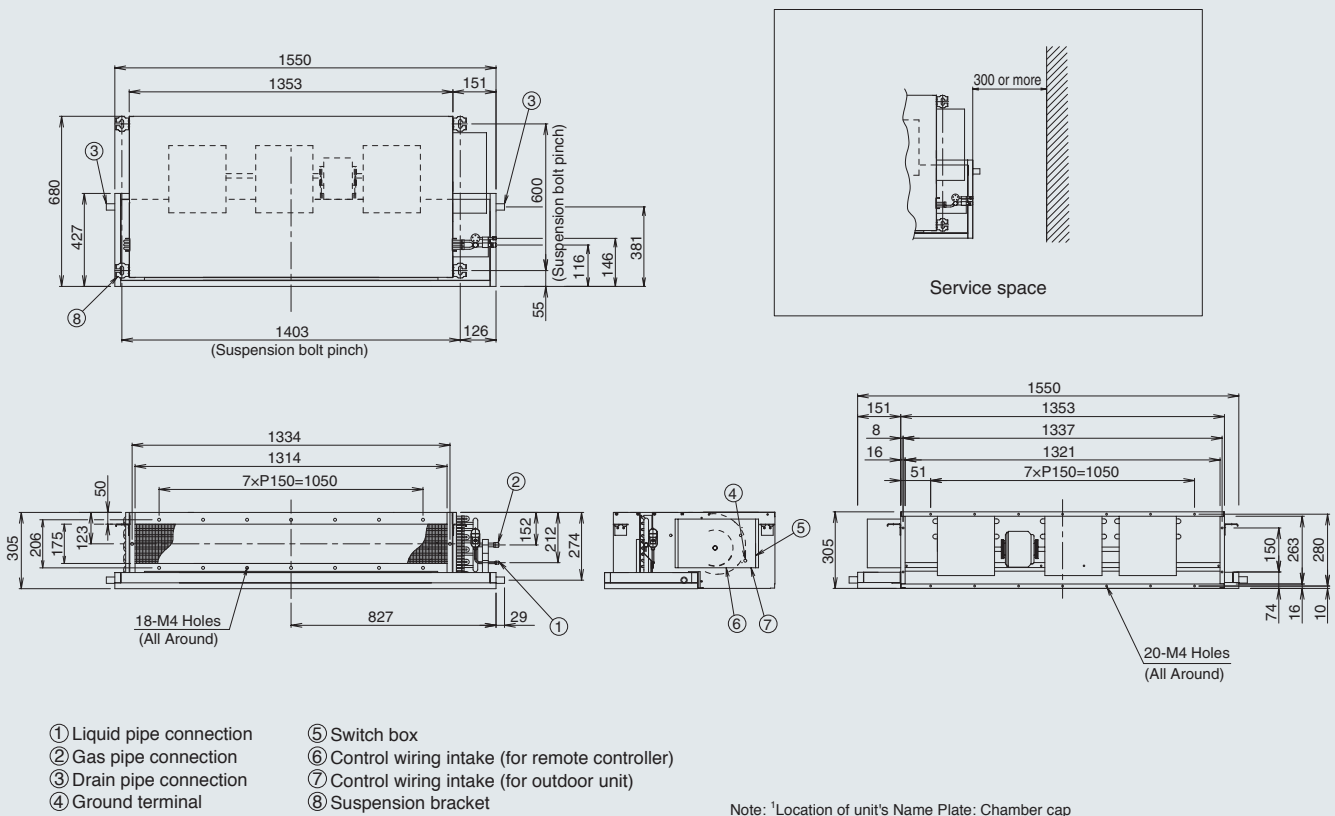
DUCT CONNECTION LOW STATIC PRESSURE TYPE

[FDBNQ60/71MV1]



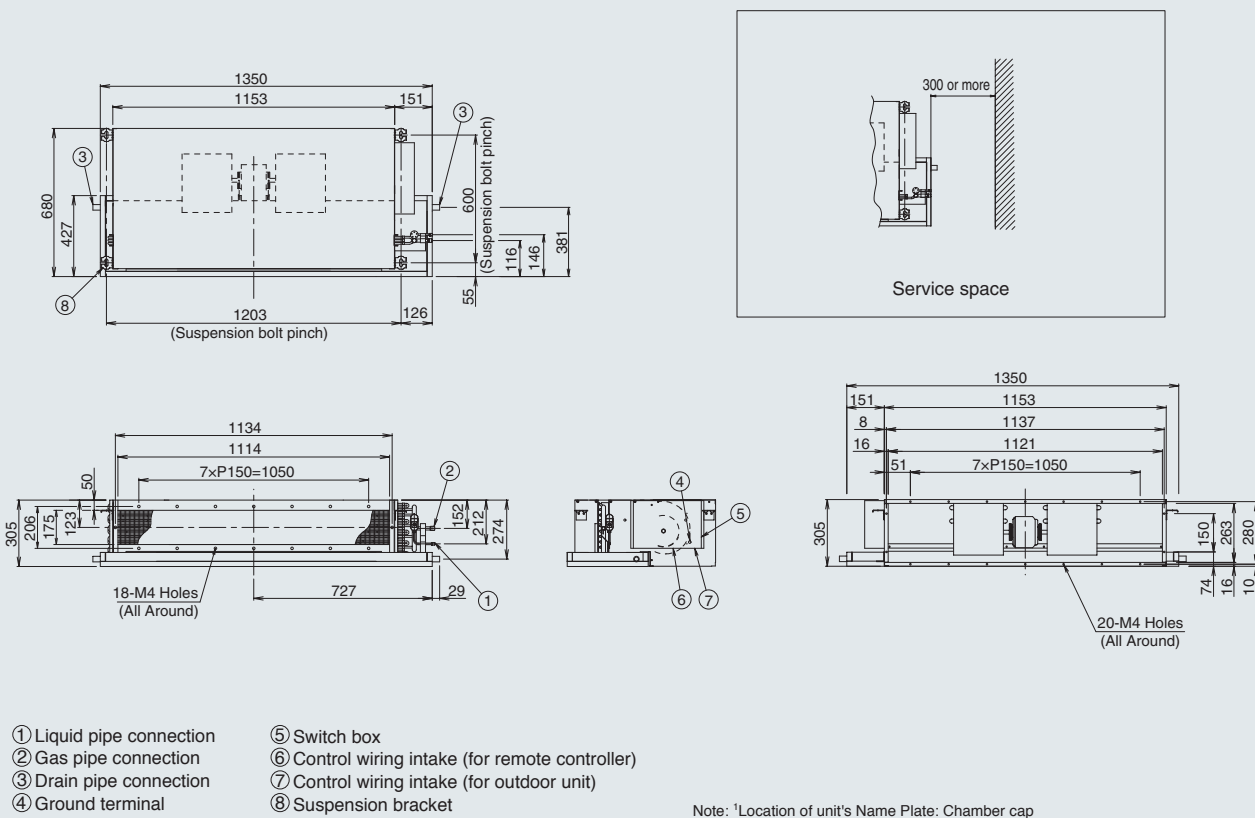
DUCT CONNECTION MIDDLE STATIC PRESSURE TYPE

[FDMNQ90/100/125/140MV1]

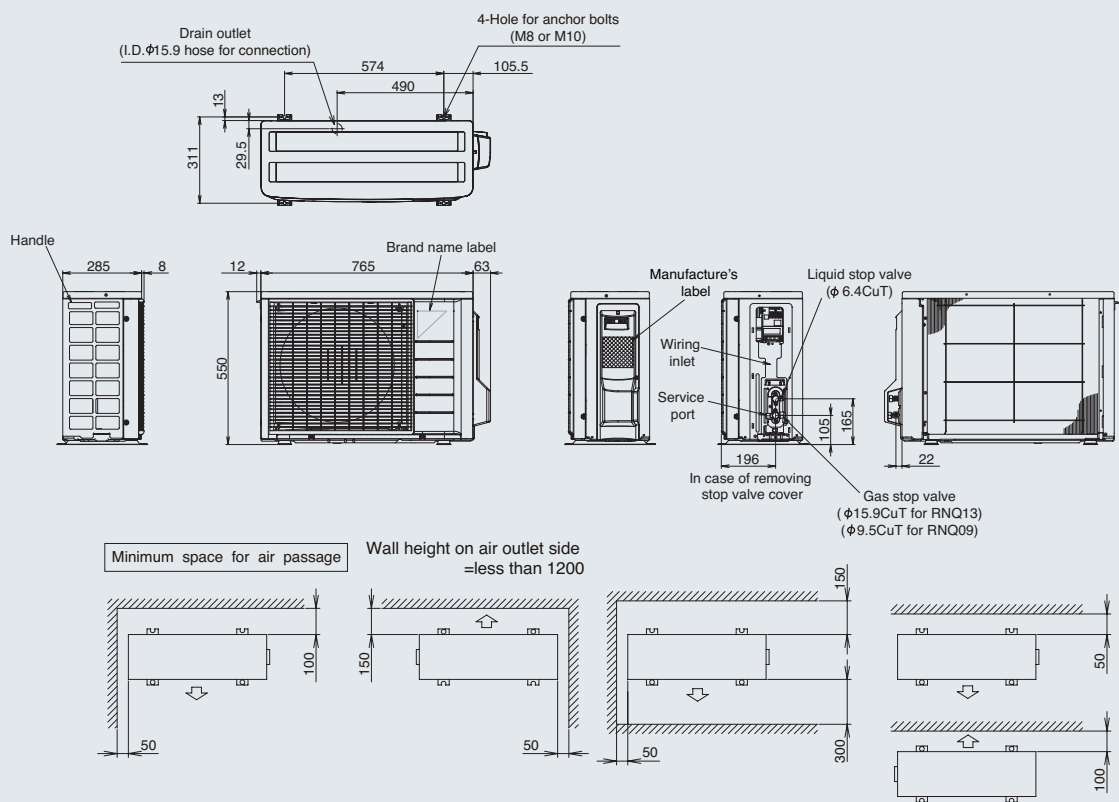


DUCT CONNECTION MIDDLE STATIC PRESSURE TYPE

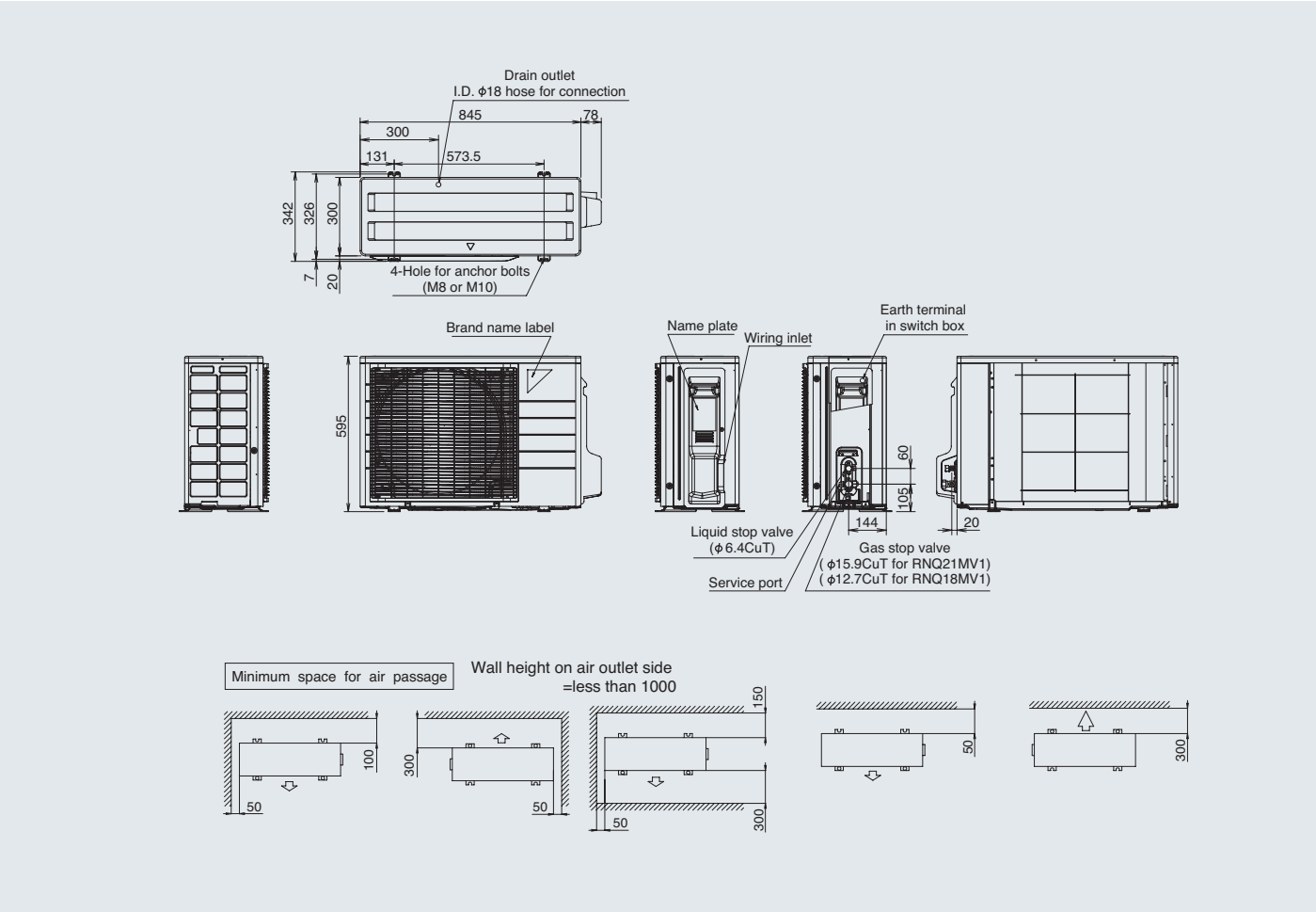
[FDMNQ71MV1]



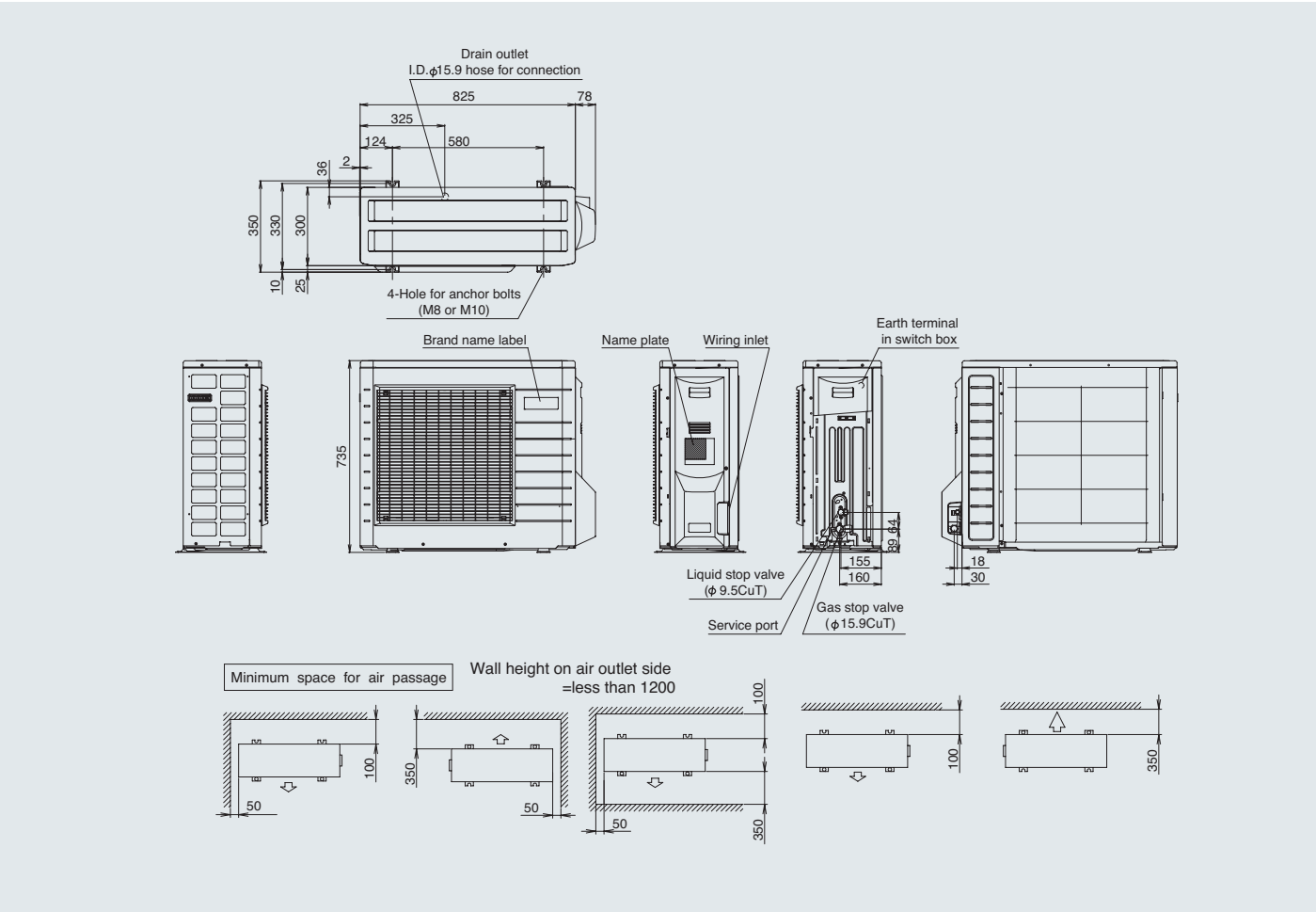
OUTDOOR UNIT // RNQ25/40MV1



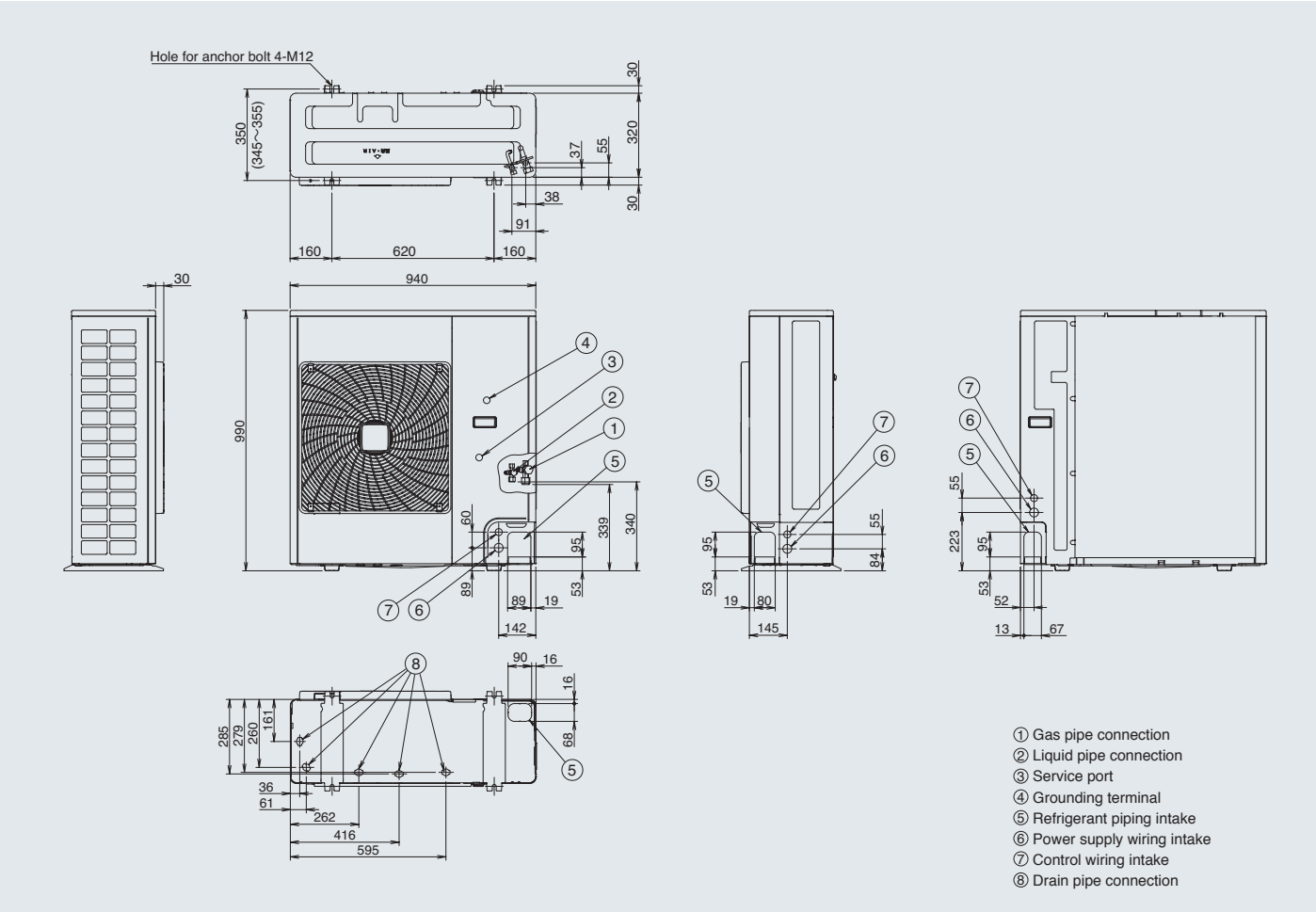
OUTDOOR UNIT // RNQ50/60MV1



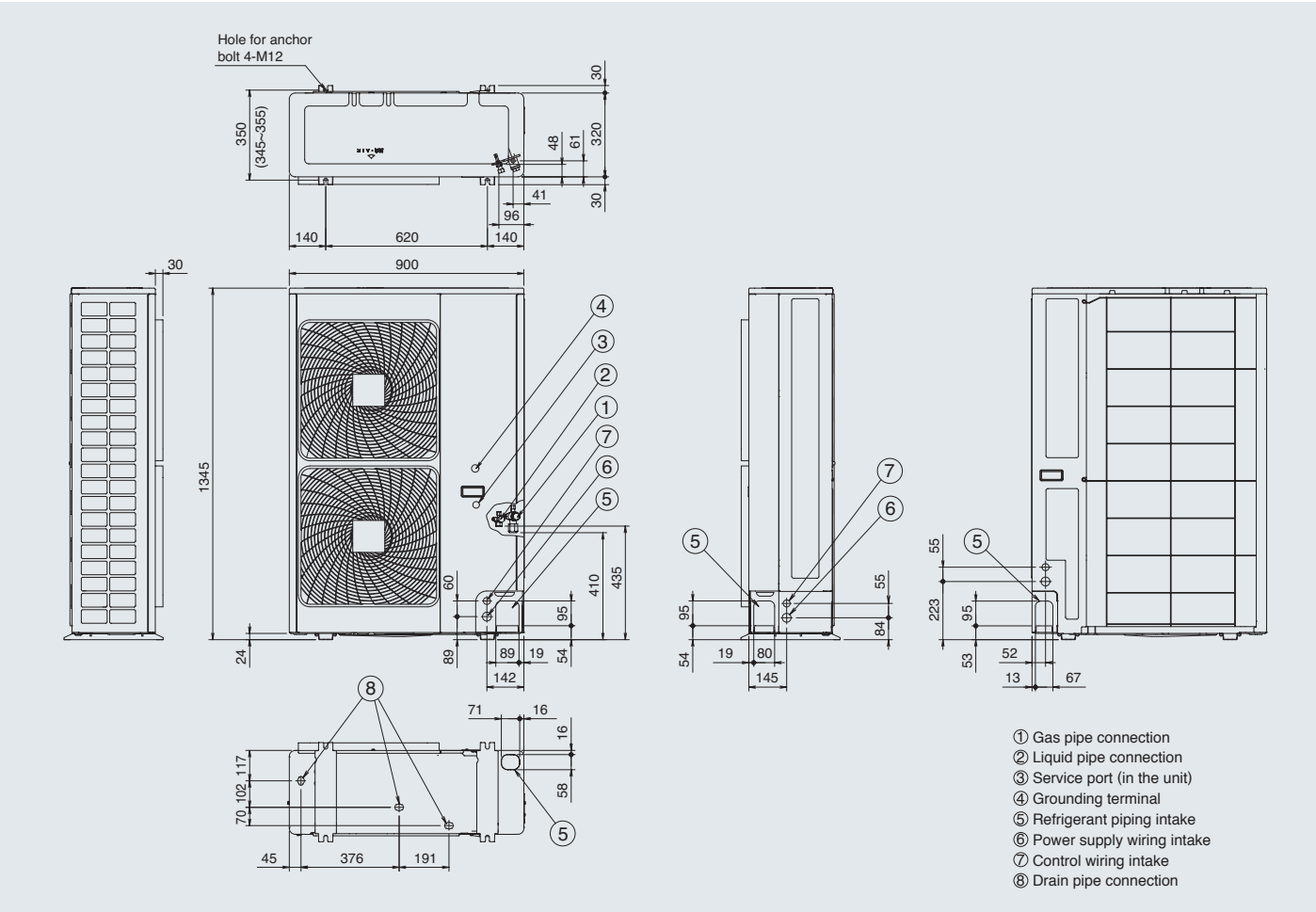
OUTDOOR UNIT // RNQ71MV1, RNQ71MY1



OUTDOOR UNIT // RNQ90MV1, RNQ90MY1



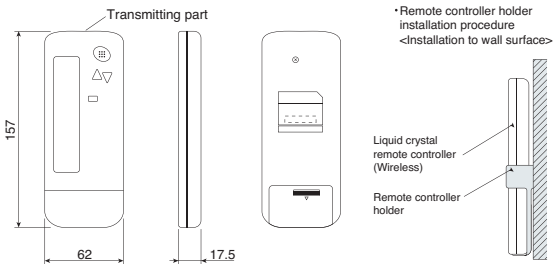
OUTDOOR UNIT // RNQ100MV1, RNQ100/125/140MY1



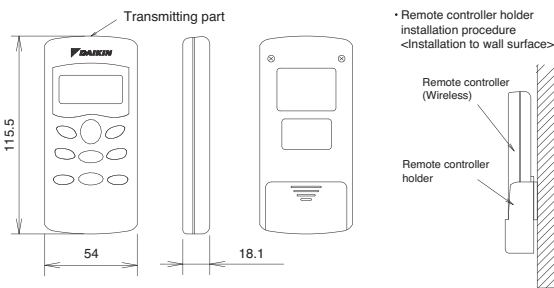
REMOTE CONTROLLER

《Wireless type》 Remote controller dimensions

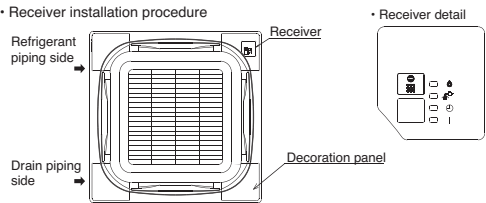
BRC7F633F BRC4C64



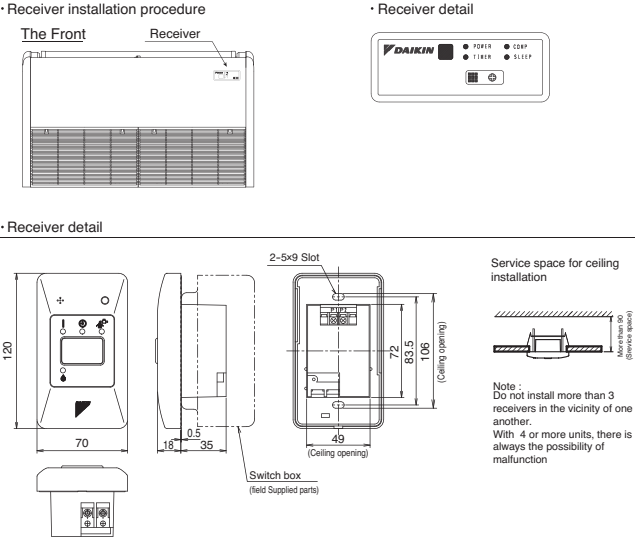
BRC7NU66



CEILING MOUNTED CASSETTE TYPE <Round Flow>

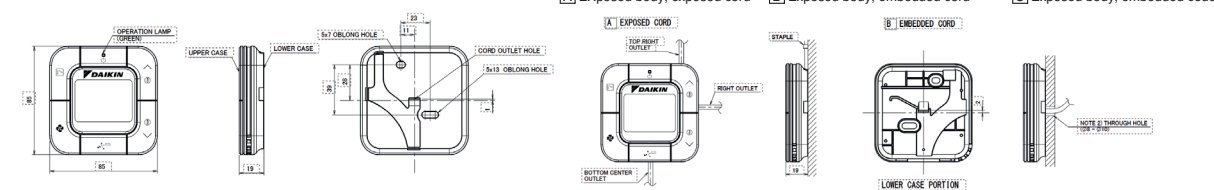


CEILING SUSPENDED TYPE



《Wired type》 Remote controller dimensions

BRC2E61



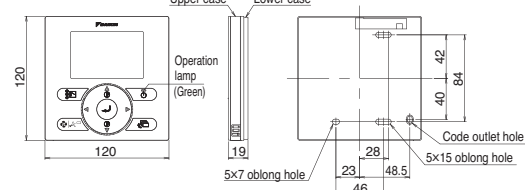
Note) 1. Remote controller cord and staple are not attached. They are field supplied parts.

Specifications of cord

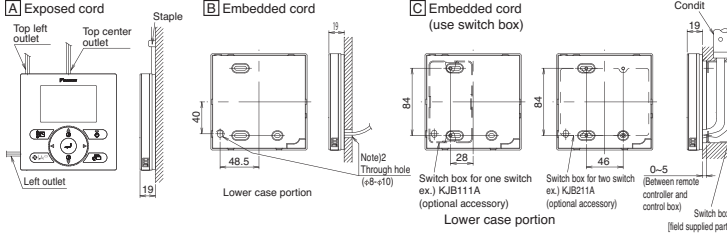
Type *	Vinyl cord with sheath or cable (insulated thickness: 1 mm or more)
Size	0.75~1.25 mm ²
Total length	500 m

* Countries requiring EMC: Shield wire (insulated thickness: 1 mm or more)

BRC1E63



Installation method



Note)

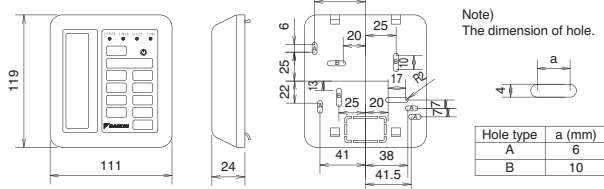
1. Remote controller cord and staple are not attached. They are field supplied parts.

Specifications of cord

Type	Vinyl cord with sheath or cable (insulated thickness: 1mm or more)
Size	0.75~1.25 mm ²
Total length	500 m

2.If the hole size is too large or the location is not proper, the hole may come out from the remote controller.

BRC1NU61



Note) The dimension of hole.

Hole type	a (mm)
A	6
B	10

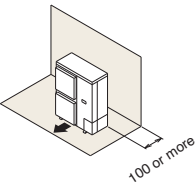
For RNQ90-140MV1/Y1

1 When there is an obstruction on the inlet side

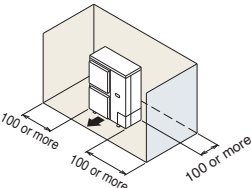
1) When the overhead space is open

1. For single unit installation

When there is an obstruction only on the inlet side

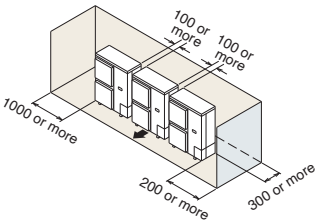


When there are obstructions on both sides



2. For multiple units installation (more than two units)

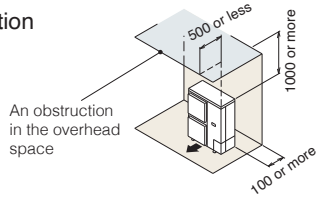
When there are obstructions on both sides



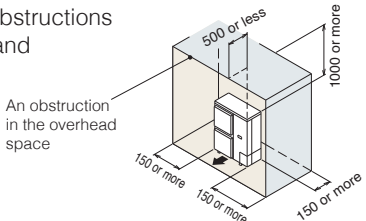
2) When there is an obstruction in the overhead space

1. For single unit installation

When there is an obstruction on the inlet side

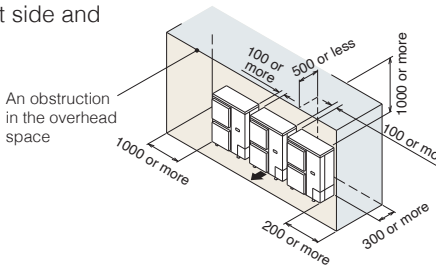


When there are obstructions on the inlet side and both sides



2. For multiple units installation (more than two units)

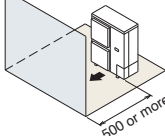
When there are obstructions on the inlet side and both sides



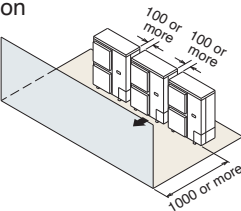
2 When there is an obstruction on the outlet side

1) When the overhead space is open

1. For single unit installation



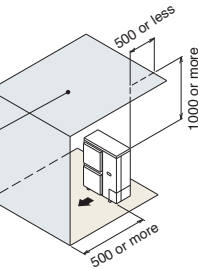
2. For multiple units installation (more than two units)



2) When there is an obstruction in the overhead space

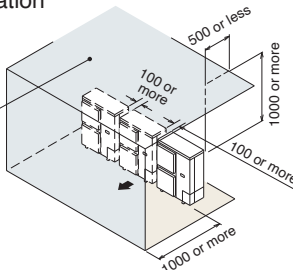
1. For single unit installation

An obstruction in the overhead space



2. For multiple units installation (more than two units)

An obstruction in the overhead space



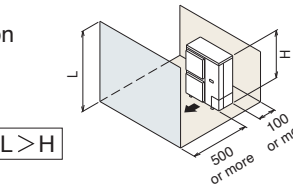
3 When there are obstructions on both the inlet and outlet sides

(When the obstruction on the outlet side is higher than the unit itself)

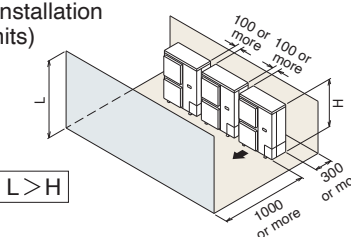
1) When the overhead space is open

(There is no limit to the height of the obstruction on the outlet side.)

1. For single unit installation



2. For multiple units installation (more than two units)



Note : As for other patterns of installation, please refer to Installation manual or Engineering Data Book.