

# DAIKIN

PCSSG0814F

# SkyAir

AIR CONDITIONING SYSTEM [50Hz]

Super Inverter

INVERTER



ROUND FLOW

360° airflow!!

**ENERGY EFFICIENCY RATING**  
**EXCELLENT**

Energy Consumption kWh per hr  
Full load (100%) 0.72  
Part load (50%) 0.33

Cooling Capacity: 2.31 kW  
DAIKIN  
RKS25AVMG  
Split type Inverter air-conditioner

Tested in accordance with JIS C 9812  
Actual energy consumption may vary from test results.  
For more information and to compare models, visit [www.daikin.com](http://www.daikin.com)  
40112-04-01-00000

RKS25AVMG

**ENERGY EFFICIENCY RATING**  
**EXCELLENT**

Energy Consumption kWh per hr  
Full load (100%) 1.07  
Part load (50%) 0.41

Cooling Capacity: 5.21 kW  
DAIKIN  
RZR50LUV1  
Split type Inverter air-conditioner

Tested in accordance with JIS C 9812  
Actual energy consumption may vary from test results.  
For more information and to compare models, visit [www.daikin.com](http://www.daikin.com)  
40112-04-01-00000

RZR50LUV1

**ENERGY EFFICIENCY RATING**  
**EXCELLENT**

Energy Consumption kWh per hr  
Full load (100%) 1.07  
Part load (50%) 0.42

Cooling Capacity: 5.88 kW  
DAIKIN  
RZR60LUV1  
Split type Inverter air-conditioner

Tested in accordance with JIS C 9812  
Actual energy consumption may vary from test results.  
For more information and to compare models, visit [www.daikin.com](http://www.daikin.com)  
40112-04-01-00000

RZR60LUV1

**ENERGY EFFICIENCY RATING**  
**EXCELLENT**

Energy Consumption kWh per hr  
Full load (100%) 1.40  
Part load (50%) 0.45

Cooling Capacity: 7.13 kW  
DAIKIN  
RZR71LUV1  
Split type Inverter air-conditioner

Tested in accordance with JIS C 9812  
Actual energy consumption may vary from test results.  
For more information and to compare models, visit [www.daikin.com](http://www.daikin.com)  
40112-04-01-00000

RZR71LUV1

**ENERGY EFFICIENCY RATING**  
**EXCELLENT**

Energy Consumption kWh per hr  
Full load (100%) 2.75  
Part load (50%) 0.98

Cooling Capacity: 9.37 kW  
DAIKIN  
RZR100LUV1  
Split type Inverter air-conditioner

Tested in accordance with JIS C 9812  
Actual energy consumption may vary from test results.  
For more information and to compare models, visit [www.daikin.com](http://www.daikin.com)  
40112-04-01-00000

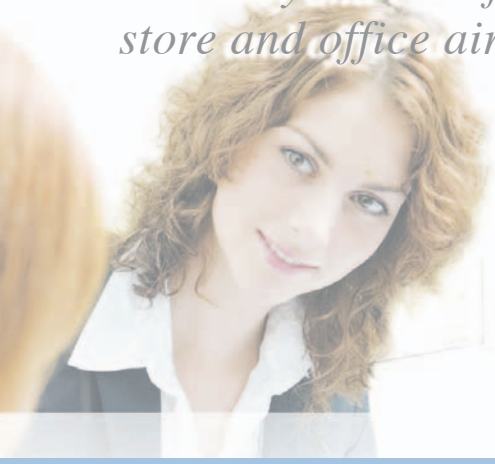
RZR100LUV1

**R-410A**


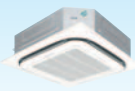






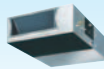




Economy and comfort are essential to store and office air conditioning.

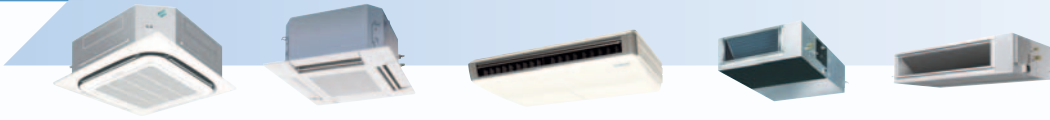
## Wide selection with the inverter series

Our varied lineup meets customer needs when it comes to functions and indoor unit types.






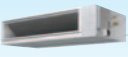



## Product Lineup

		Series	25	35	50	60
<b>CEILING MOUNTED CASSETTE TYPE</b> <Round Flow>						
	Indoor unit					
	Outdoor unit		RZR50LUV1	RZR60LUV1		
<b>CEILING SUSPENDED TYPE</b>						
	Indoor unit	<b>NEW</b> FHQ50BVV1G				
	Outdoor unit		RZR50LUV1	RZR60LUV1		
<b>DUCT CONNECTION MIDDLE/HIGH STATIC PRESSURE TYPE</b>						
	Indoor unit	<b>NEW</b> FBQ50DV1				
	Outdoor unit		RZR50LUV1	RZR60LUV1		
<b>Super Inverter</b>						
			<b>NEW</b> 	<b>NEW</b> 		
			RZR50LUV1	RZR60LUV1		
		Series	25	35	50	60
<b>COMPACT MULTI FLOW CEILING MOUNTED CASSETTE TYPE</b>						
	Indoor unit	FFQ25BV1B				
	Outdoor unit	RKS25AVMG	RKS35AVMG			
<b>CEILING SUSPENDED TYPE</b>						
	Indoor unit					
	Outdoor unit		RKS35AVMG	RKS50AVMG	RKS60AVMG	
<b>CEILING MOUNTED BUILT-IN TYPE</b>						
	Indoor unit					
	Outdoor unit		RXS50FVMA	RXS60FVMA		
<b>INVERTER</b>						
						
			RKS25AVMG	RKS35AVMG	RKS50AVMG/RXS50FVMA	RKS60AVMG/RXS60FVMA
<b>OUTDOOR UNIT</b>						



**SkyAir**

71	100			125		140	
							
FCQ71KVEA RZR71LUV1	FCQ100KVEA RZR100LUV1	FCQ100KVEA RZR100HUY1	FCQ125KVEA RZR125LUV1	FCQ125KVEA RZR125HUY1	FCQ140KVEA RZR140LUV1	FCQ140KVEA RZR140HUY1	
							
FHQ71BVV1B RZR71LUV1	FHQ100BVV1B RZR100LUV1	FHQ100BVV1B RZR100HUY1	FHQ125BVV1B RZR125LUV1	FHQ125BVV1B RZR125HUY1			
							
FBQ71DV1 RZR71LUV1	FBQ100DV1 RZR100LUV1	FBQ100DV1 RZR100HUY1	FBQ125DV1 RZR125LUV1	FBQ125DV1 RZR125HUY1	FBQ140DV1 RZR140LUV1	FBQ140DV1 RZR140HUY1	

Page 5

Page 11

Page 15

Super Inverter						
						
RZR71LUV1	RZR100LUV1	RZR100HUY1	RZR125LUV1	RZR125HUY1	RZR140LUV1	RZR140HUY1

Page 17

**OUTDOOR UNIT**

71

FBQ71BV1A RXS71FVMA

RXS71FVMA

Page 9

Page 11

Page 13

# Energy saving

## Wider lineup of high COP models



**CEILING MOUNTED CASSETTE TYPE**  
 <Round Flow>



**CEILING SUSPENDED TYPE**



**DUCT CONNECTION MIDDLE/HIGH STATIC PRESSURE TYPE**



COP	
50	60
<b>3.84</b>	<b>3.70</b>
<b>NEW 3.60</b>	<b>NEW 3.56</b>
<b>NEW 3.60</b>	<b>NEW 3.56</b>

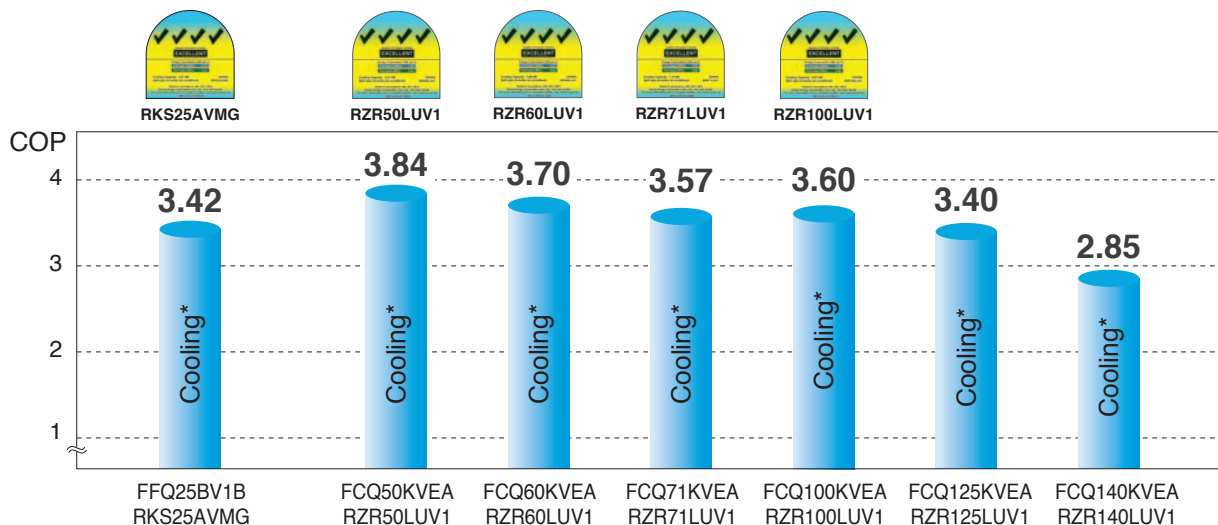
## 4 Tick Energy Label



Models have received Singapore's 4 Tick Energy Label, which is the highest energy-efficiency rating for inverter type air conditioner.

The mandatory labelling scheme was introduced by Singapore National Environment Agency.

## Achieved higher COP



### What is COP (Coefficient of Performance)

COP is equal to capacity (kW) divided by power consumption (kW), and the larger the COP value, the higher the energy efficiency, enabling cooling and heating with less electricity and increasing the energy saving performance.

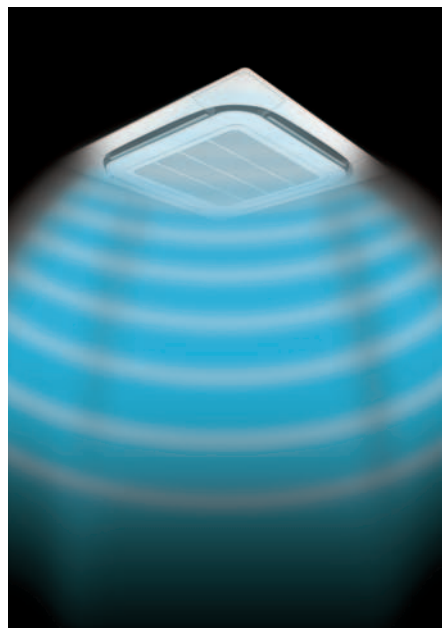
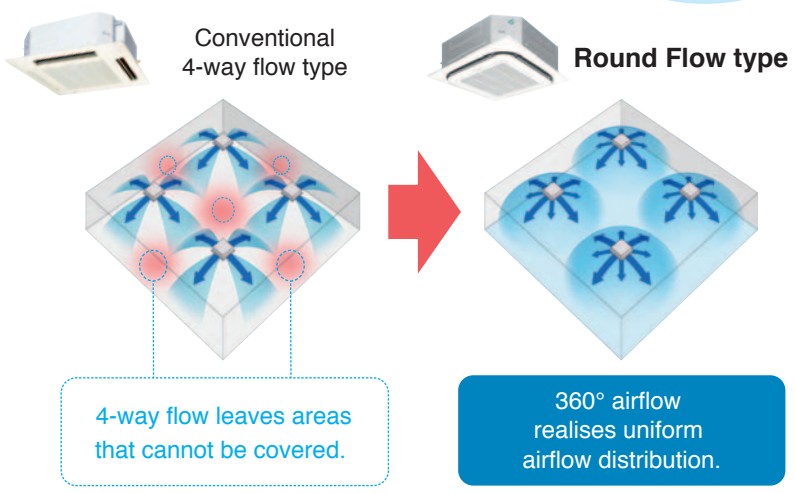
Note :  
 \*Rated cooling capacities are based on the following conditions: Indoor temp., 27°CDB, 19.0°CWB; outdoor temp. 35°CDB Equiv. refrigeration piping, 7.5 m (horizontal).

# Round Flow cassette



## Comfortable airflow

360° airflow with improved temperature distribution.



# Comfortable

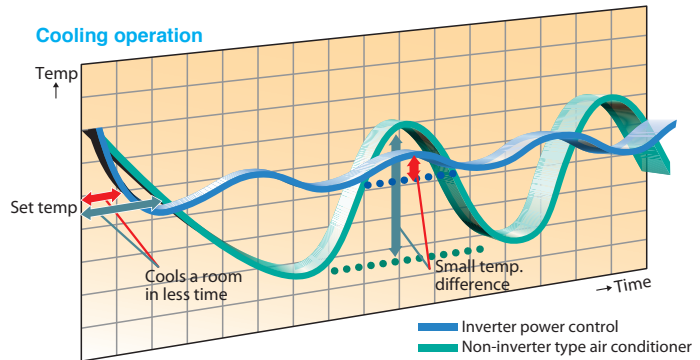


## Enhanced comfort with Inverter

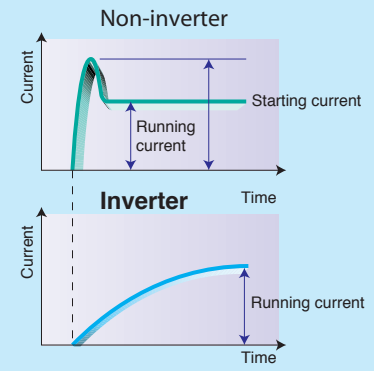
Inverter performs variable control of frequency, which determines air conditioner's power performance.

At startup, full power is used to achieve the set temperature quickly. Then, the capacity is adjusted according to the outdoor temperature changes and subtle indoor load changes to achieve fine capacity control resulting in a more stable room temperature.

Non-inverter type air conditioners must be switched on and off repeatedly, causing large fluctuations of the room temperature.

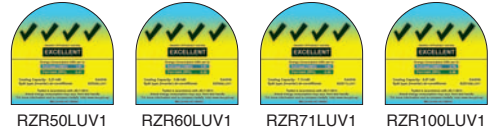


Soft starter is unnecessary, making electrical installation work much simpler.



At startup, inverter raises frequency smoothly, eliminating the starting current spike.

# Uniform 360° airflow cassette air conditioner is setting tomorrow's standards.



Wired LCD remote controller



**BRC1C61**

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

Option

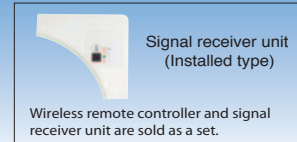
Accessory required for indoor unit

Wireless LCD remote controller

A signal receiver must be added to the indoor unit.



**BRC7F632F**



Signal receiver unit (Installed type)

Wireless remote controller and signal receiver unit are sold as a set.

Wired LCD remote controller with weekly schedule timer



**BRC1D61**

Navigation Remote Controller

(Wired Remote Controller)



**BRC1E61**

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

## Features

Comfort								Cleanliness	Work & Servicing						Control features				Options	Others									
Auto swing	Swing pattern selection	Switchable fan speed	Programme "Dry"	High ceiling application	Two selectable temperature-sensors	Night quiet operation	Timer selector	Weekly schedule timer	Anti-bacterial air filter	Silver ion anti-bacterial drain pan	Drain pump mechanism	Pre-charged for up to 30 m	Long-life filter	Filter sign	Ceiling soiling prevention	Low gas pressure detection	Emergency operation	Self-diagnosis function	Auto-restart	Control by 2 remote controllers	Group control by 1 remote controller	External command control	Central remote control	Interlock control	Ultra long-life filter	High-efficiency filter	Fresh air intake kit	Anti corrosion treated heat exchangers	
•	•	•	•	•	*1	*2	•	*3	•	•	•	*2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	*2

\*1 Applicable when wired remote controller is used

\*2 For the outdoor units

\*3 Applicable when BRC1D61 or BRC1E61 is used

- 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

- Air movement is gentle with Round Flow

Enhanced Comfort



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

If you raise the set temperature by 1 to 1.5°C, and velocity is decreased by 25%, you still obtain the same feeling temperature and comfort.

## 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	3-way flow	L-shaped 2-way flow	Opposite 2-way flow
(E.g., installed in middle of ceiling) 4-way flow also possible.	(E.g., installed near a wall)	(E.g., installed in a corner)	(E.g., installed in a long room)

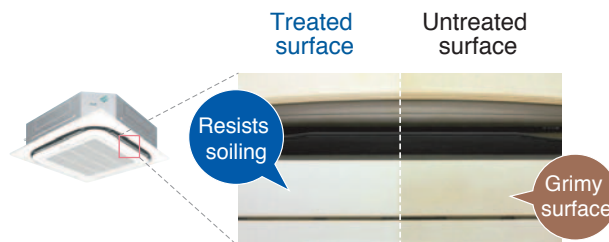
Note: Whatever the discharge direction, the same type of panel is used. If installing for other than all-round flow, an air discharge outlet sealing member (option) must be used to close each unused outlet.

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

- Grime prevention and bactericidal 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 m<sup>3</sup> enclosed space.

- Bactericidal treatment for drain pan

Anti bacterial treatment, that includes silver ions is used which may assist in preventing the growth of microorganisms that cause smells and clogging.

- Non-flocking horizontal louvres

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

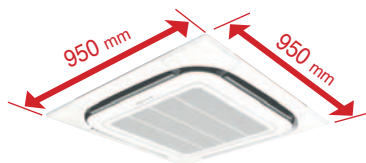
- Filter has anti-mould and bactericidal treatment

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

## Fine square panels

## Compact body and quiet operation

- Panel size is same for all models, FCQ50-140K. It is easy to maintain a neat appearance when multiple units are installed.



Same for all models

Indoor unit	dB(A)	
	High	Low
50K	35	28
60K	35	28
71K	35	28
100K	43	32
125K	44	34
140K	44	36

Note: Anechoic chamber conversion value, measured according to JIS parameters and criteria. During operation these values are somewhat higher owing to ambient conditions.

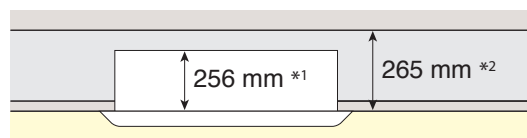
## Optimal comfort and convenience assured by air discharge modes

## Quick and easy to install

Note: Air direction is set to the standard position when the unit is shipped from the factory. The position can be changed from the remote controller.

- Just 256 mm high. Installable in tight ceiling spaces (50K-71K)

Air direction	Standard setting	Setting to prevent soiling of ceiling*
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.	



\*1 298 mm high with 100K-140K  
\*2 303 mm high with 100K-140K

\*Closing of the corner discharge outlets is recommended.

- 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 control option is installed, a light receptor unit is housed in one of the adjuster pockets.

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

- Suitable for high ceilings

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

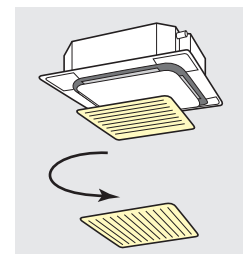
### Criteria for ceiling height and number of air discharge outlets

		Number of air discharge outlets used							
		50K-71K				100K-140K			
		All round flow	4-way flow	3-way flow	2-way flow	All round flow	4-way flow	3-way flow	2-way flow
Ceiling height	Standard	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 ①	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 ②	3.5 m	4.0 m	3.5 m	—	4.2 m	4.5 m	4.2 m	—

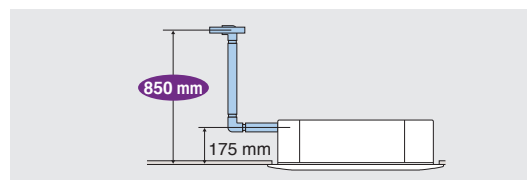
Note: Factory settings are for standard ceiling height and all-round flow. High ceiling settings (1) and (2) are set with the remote controller.

- Installable in any direction

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



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



- Two selectable temperature-sensors

Both indoor unit and wired remote controller (option (BRC1D61,BRC1E61)) 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.

- 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.



- Switchable fan speed: High/Low

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.

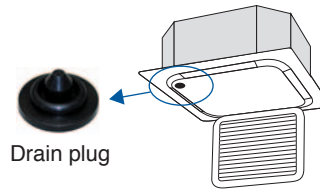
- Easier connection with the centralised control system

- Low gas pressure detection



## Easier to maintain

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



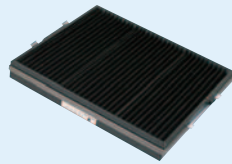
Just open the intake grille!

- 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

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



#### Smoky atmosphere: annual filter change

\*For dust concentration of 0.3 mg/m<sup>3</sup> (Requires separately sold Air Cleaner.)  
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

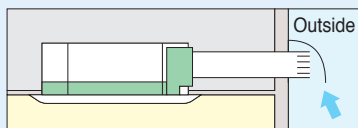
\*For dust concentration of 0.15 mg/m<sup>3</sup>  
4 years (Approx. 10,000 hr) ≈ 8 hr/day x 25 day/month x 4 years

### High-efficiency filter

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

### Fresh air intake kit

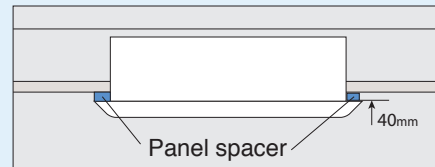
Using this kit, a duct can be fitted to increase the intake of outdoor air.



Note: \*Connecting ducts, insect nets, fire dampers, air filters, and other parts should, as required, be procured locally.  
\*\*Outside Air fan interlocked with air conditioning unit is necessary. Optional PCB(KRP1C63) is required for interlocking.  
\*\*\*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.

### 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 member of air discharge outlet

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

### Branch duct (direct-connection round duct)

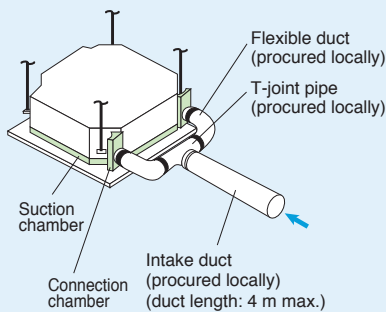
A round duct can be attached without the need for a chamber. A flanged port for direct connection of a round duct is provided. An existing branch duct chamber can also be fitted (square slit hole).

## The units can be installed in the following different ways.

### Chamber type

(without T-joint pipe and fan)

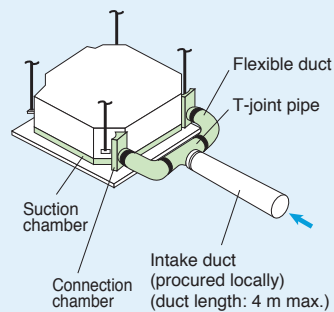
KDDP55B160



### Chamber type

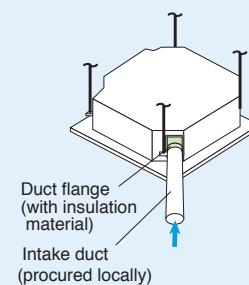
(with T-joint pipe and without fan)

KDDP55B160K



### Direct installation type

KDDP55X160



Note: Use of options will increase operating sound.

# Quiet, decor-blending form and easy installation in new or old buildings.



RKS25AVMG



FFQ25B/35B

### Wired LCD remote controller



**BRC1C61**

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

**Option**

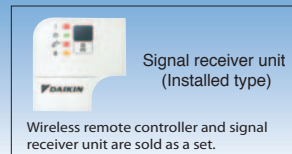
### Accessory required for indoor unit

### Wireless LCD remote controller

A signal receiver must be added to the indoor unit.



**BRC7E531W**



Signal receiver unit  
(Installed type)

Wireless remote controller and signal receiver unit are sold as a set.

### Wired LCD remote controller with weekly schedule timer



**BRC1D61**

### Navigation Remote Controller

(Wired Remote Controller)



**BRC1E61**

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

## Features

Comfort							Cleanliness		Work & Servicing					Control features					Option	Others		
•	•	•	•	*1	•	*2	•	•	•	*3	•	•	•	•	•	•	•	•	•	•	•	•

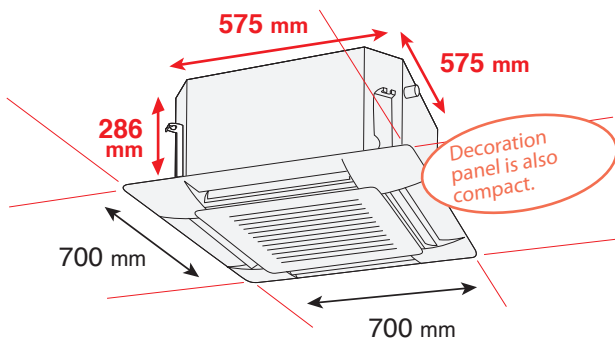
\*1 Applicable when wired remote controller is used

\*2 Applicable when BRC1D61 or BRC1E61 is used

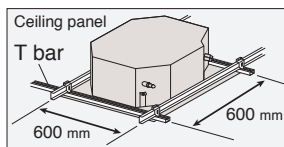
\*3 For the outdoor units

## Compact

- Sized to fit inside 600mm wide ceiling grids



- Fits without the need to cut T-bar grid



The switch box is built in to the unit, so maintenance is possible by simply removing the grill. An inspection opening is not required even for modules other than 600 x 600.



## Quiet

- Quiet, small-diameter fan

Quiet operation has been achieved even with a compact body and developed spiral hub cover that reduces the static pressure inside the indoor unit.

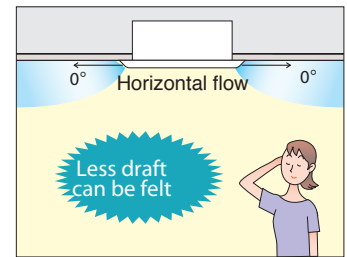


Indoor unit	dB(A)	
	High	Low
25B	29.5	24.5
35B	32	25

Note : Anechoic chamber conversion value, measured according to JIS parameters and criteria. During operation these values are somewhat higher owing to ambient conditions.

## Comfortable

- Designed for low draft performance



- Consistent comfort throughout

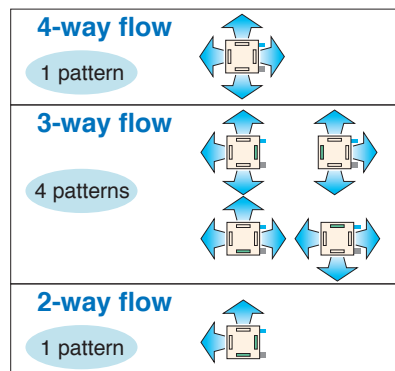
- Auto-swing operation distributes conditioned air more evenly.

- Airflow angle can be adjusted in accordance with room conditions.

	Auto-swing	5-levels air direction setting
Standard setting	Auto-swing between 0° and 60°	Settable to 5 different levels between 0° and 60°
Draft prevention setting (Set on site)	Auto-swing between 0° and 35°	Settable to 5 different levels between 0° and 35°
Setting to prevent soiling of ceiling (Set on site)	Auto-swing between 25° and 60°	Settable to 5 different levels between 25° and 60°

Note: This angle above is provided as a guide. It may differ depending on the installation site.

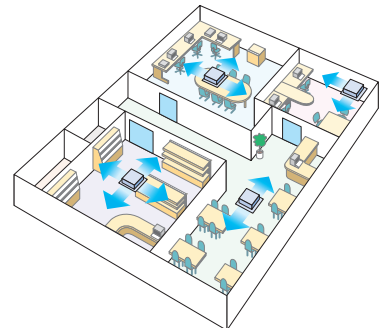
- Multi-Flow System



"■" denotes piping direction. ■ Drain piping  
"■" denotes sealing member for air discharge outlet (option).

Note: For 3-way or 2-way flow installation, the sealing member for air discharge outlet (option) must be used to close off the unused outlet(s).

- Air direction can be selected according to installation.



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

- Two selectable temperature-sensors

Both indoor unit and wired remote controller (option (BRC1D61, BRC1E61)) 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 requires initial setting by the installer.

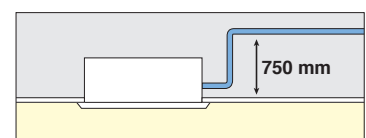
\*Temperature-sensor on indoor unit must be used when the air conditioner is controlled from another room.

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

- Switchable fan speed: High/Low

High setting provides maximum reach while low setting minimises drafts.

- Drain pump is equipped as standard accessory with 750 mm lift.



# Quiet and compact system.



RZR50LUV1



RZR60LUV1



FHQ35/50/60BVV1B  
 FHQ50/60BVV1G **NEW**  
 FHQ71/100/125BVV1B



### Wired LCD remote controller



**BRC1C61**

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

#### Option

#### Accessory required for indoor unit

### Wireless LCD remote controller

A signal receiver must be added to the indoor unit.



**BRC7EA66**



Signal receiver unit (Installed type)  
 Wireless remote controller and signal receiver unit are sold as a set.

### Wired LCD remote controller with weekly schedule timer



**BRC1D61**

### Navigation Remote Controller (Wired Remote Controller)



**BRC1E61**

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

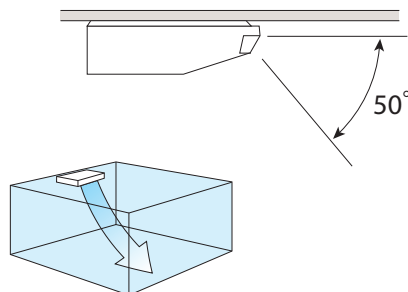
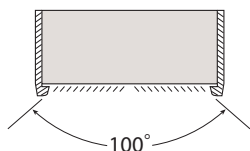
## Features

Comfort								Cleanliness	Work & Servicing						Control features					Others			
Auto swing	Switchable fan speed	Programme "Dry"	High ceiling application	Two selectable temperature sensors	Night quiet operation	Timer selector	Weekly schedule timer	Anti-bacterial air filter	Drain pump mechanism	Pre charged for up to 30 m	Pre charged for up to 10 m	Long-life filter	Filter sign	Low gas pressure detection	Emergency operation	Self-diagnosis function	Auto-restart	Control by 2 remote controllers	Group control by 1 remote controller	External command control	Central remote control	Interlock control	Anti corrosion treated heat exchangers
●	●	●	*1	*2	*3	●	*4	●	*5	*3	*6	●	●	*3	*3	●	●	●	●	●	●	●	*7

\*1 Installable on max. 3.5 m high ceiling  
 \*2 Applicable when wired remote controller is used  
 \*3 Applicable to RZR outdoor units  
 \*4 Applicable when BRC1D61 or BRC1E61 is used  
 \*5 Option  
 \*6 Applicable to RKS outdoor units  
 \*7 For the outdoor units

## 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

- Two selectable temperature-sensors

Both indoor unit and wired remote controller (option (BRC1D61,BRC1E61)) 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 requires initial setting by the installer.

\*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/Middle/Low
- Programme "Dry"

Dehumidification is microprocessor controlled to prevent abrupt and uncomfortable changes in air temperature.

## Installation flexibility for freedom of design

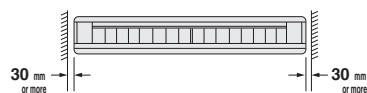
- Uniform height and depth. Compact design for small-capacity models to meet tighter dimensional constraints.

Indoor unit	35/50BVV1B	50/60BVV1G 60/71BVV1B	100BVV1B	125BVV1B
Height	195			
Width	960	1,160	1,400	1,590
Depth	680			

(mm)

- Flexible installation

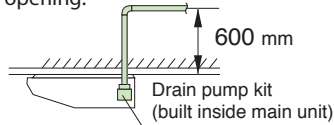
The unit fits more snugly into tight spaces.



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

- Drain pump kit (option) can be easily incorporated

Drain pipe connection can be done inside the unit. Refrigerant and drain pipe outlets are at the same opening.



- All wiring and internal servicing can be done from under the unit
- Pipes more easily rigged, too  
Plastic panels are used to conceal piping holes. Holes can be easily punched out without requiring special tools.
- Low gas pressure detection  
(Applicable to RZR71LU, 100LU, 125LU, 140LU, RZR100HU, 125HU, 140HU outdoor units)

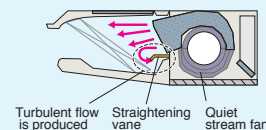
## Quiet operation

- Sound operation has been reduced on the exposed ceiling suspended type unit.

Indoor unit	dB(A)	
	High	Low
35BVV1B	37	32
50BVV1B	38	33
60BVV1B	39	33
50/60BVV1G	39	35
71BVV1B	39	35
100BVV1B	42	37
125BVV1B	44	39

Note : Anechoic chamber conversion value, measured according to JIS parameters and criteria. During operation these values are somewhat higher owing to ambient conditions.

Uses quiet stream fan and other quiet technologies.



## Easier to maintain

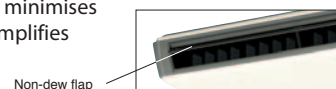
- Long-life filter lasts about half year \* maintenance not required

\* For dust concentration of 0.15 mg/m<sup>3</sup>

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

- Non-dew flap without bristles

Absence of bristles minimises clinging dirt and simplifies cleaning.



- Easy-clean, flat surfaces

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

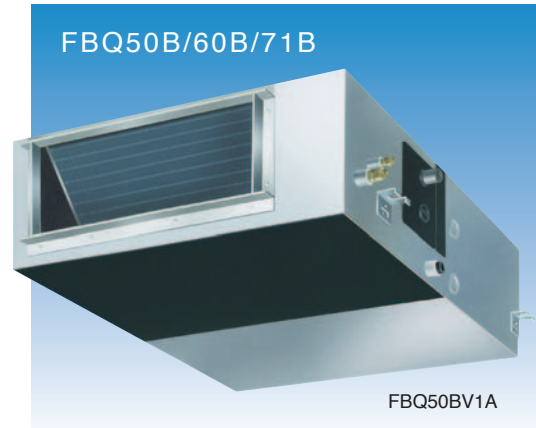
- For all maintenance tasks, access is from bottom surface.

## Oil resistant grille

- Oil-resistant plastic is used for the air discharge 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.

# Clever and compact mini ducted unit provides comfort and flexibility.



## Wired LCD remote controller



**BRC1C61**

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

### Option

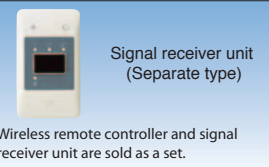
#### Accessory required for indoor unit

## Wireless LCD remote controller

A signal receiver must be added to the indoor unit.



**BRC4C62**



## Wired LCD remote controller with weekly schedule timer



**BRC1D61**

## Navigation Remote Controller

(Wired Remote Controller)



**BRC1E61**

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

## Features

Comfort					Cleanliness	Work & Servicing				Control features						Others
Switchable fan speed	Programme "Dry"	Two selectable temperature sensors	Timer selector	Weekly schedule timer	Mould-proof drain pan	Drain pump mechanism	Pre-charged for up to 10 m	Filter sign	Self-diagnosis function	Auto-restart	Control by 2 remote controllers	Group control by 1 remote controller	External command control	Central remote control	Interlock control	Anti corrosion treated heat exchangers
•	•	*1	•	*2	•	•	*3	•	•	•	•	•	•	•	•	*3

\*1 Applicable when wired remote controller is used

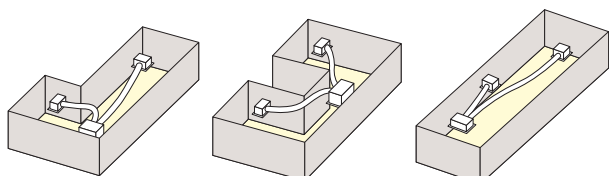
\*2 Applicable when BRC1D61 or BRC1E61 is used

\*3 For the outdoor units

## Comfortable

- Flexibly adapts to shop interiors

To cope with the challenges of L-shaped or U-shaped spaces, it is possible to install the air discharge unit away from the main unit. At the same time, different types of architectural space can be kept comfortable.



L-shaped space

U-shaped space

Long space

- Two selectable temperature-sensors

Both indoor unit and wired remote controller (option (BRC1D61,BRC1E61)) 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 requires initial setting by the installer.

\*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

- Programme "Dry"

Dehumidification is microprocessor controlled to prevent abrupt and uncomfortable changes in air temperature.

## Quiet operation

Indoor unit	dB(A)	
	High	Low
50B	33	29
60B	34	30
71B	34	30

Note : Anechoic chamber conversion value, measured according to JIS parameters and criteria. During operation these values are somewhat higher owing to ambient conditions.



## Compact

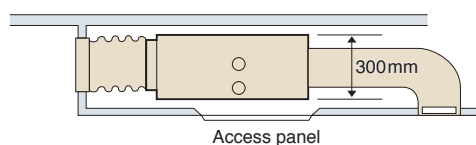
- Compact design of built-in type helps blend with interior decor.

Height reduced to allow installation in confined spaces.

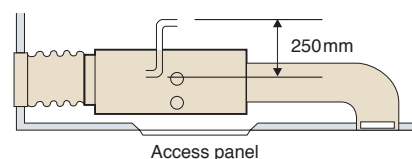
Indoor unit	(mm)	
	50B	60B/71B
Height	300	
Width	700	1,000
Depth	800	

## Work & Servicing

- The height of the unit is a mere 300 mm. It can be installed in a narrow ceiling space. (when access panel is used.)



- Provided with condensate drain pump, making drain piping easier in awkward spaces.



- External static pressure can be set depending on duct length, presence of high-efficiency filter, and other installation conditions.

### External static pressure pattern

Indoor unit	(Pa)		
	High	Standard	Low
50B-71B	88	49	20

External static pressure is set to standard when the unit is shipped from the factory.

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



FBQ50D/60D **NEW**  
FBQ71D/100D/125D/140D



Wired LCD remote controller



**BRC1C61**

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

Option

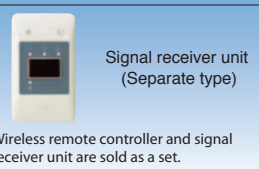
Accessory required for indoor unit

Wireless LCD remote controller

A signal receiver must be added to the indoor unit.



**BRC4C64**



Signal receiver unit  
(Separate type)

Wireless remote controller and signal receiver unit are sold as a set.

Wired LCD remote controller with weekly schedule timer



**BRC1D61**

Navigation Remote Controller  
(Wired Remote Controller)



**BRC1E61**

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

## Features

Comfort						Cleanliness		Work & Servicing						Control features					Option	Others			
Switchable fan speed	Programme "Dry"	Two selectable temperature-sensors	Night quiet operation	Timer selector	Weekly schedule timer	Anti-bacterial air filter	Silver ion anti-bacterial drain pan	Drain pump mechanism	Pre-charged for up to 30 m	Long-life filter	Filter sign	Low gas pressure detection	Emergency operation	Self-diagnosis function	Auto-restart	Control by 2 remote controllers	Group control by 1 remote controller	External command control	Central remote control	Interlock control	High efficiency filter option	Anti corrosion treated heat exchangers	
●	●	*1	*2	●	*3	*4	●	●	*2	*4	●	*2	●	●	●	●	●	●	●	●	●	●	*2

\*1 Applicable when wired remote controller is used

\*2 For the outdoor units

\*3 Applicable when BRC1D61 or BRC1E61 is used

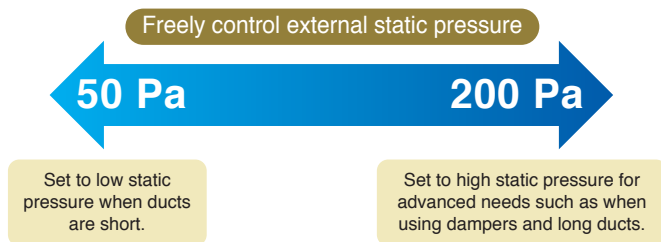
\*4 Option



## Increased freedom of design thanks to variable control over external static pressure

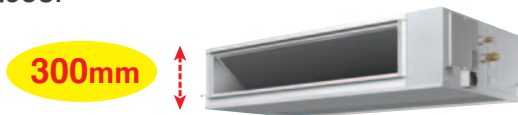
- Comfort airflow achieved in accordance with conditions such as duct length.

Using a DC fan motor, the external static pressure can be controlled within a range of 50 Pa to 200 Pa.



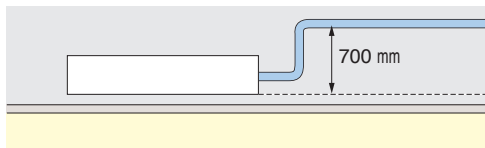
## Thin, lightweight indoor unit makes delivery and installation easy.

- With a height of only 300 mm, installation is possible even in buildings with narrow ceiling spaces.



Indoor unit	50D	60D	71D	100D	125D	140D
Height (mm)	300					
Width (mm)	1,000			1,400		
Depth (mm)	700					
Machine Weight (kg)	36			46		

- Drain pump is equipped as standard accessory with 700 mm lift.



## Reduced installation time

- Use remote controller to adjust airflow

When testing standard integrated ceiling units that employ duct work, much time used to be required to adjust airflow to the right level. Thanks to the ability provided by Daikin to automatically perform this troublesome adjustment using a remote controller, this step is now quick and easy. (Adjust by H tap.)

- Adjust to approximately  $\pm 10\%$  of the rated H tap airflow.
- Once actual operation has begun, adjustment of the rated airflow is not possible.

- Easier connection with the centralised control system

## Quiet operation

	50D	60D	71D	100D	125D	140D
High	37	37	37	38	40	40
Low	32	32	32	33	36	36

dB(A)

## Easy maintenance

Maintenance is easy because the drain pan can be removed.

## Clean

- Bactericidal treatment for drain pan

Anti bacterial treatment, that includes silver ions is used which may assist in preventing the growth of microorganisms that cause smells and clogging.

## Comfortable

- 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.

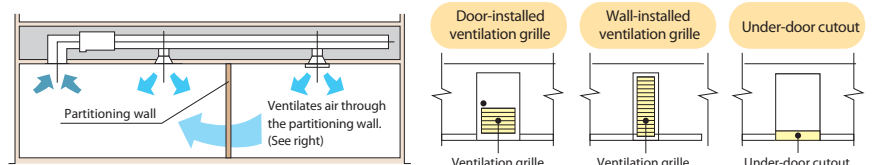
This feature requires initial setting by the installer.

\*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.

## 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.

# Super Inverter

# New Compact Outdoor unit



## Easy installation and maintenance

### Pre charged for up to 30 metres

If refrigerant piping length does not exceed 30 m, there is no need for on-site gas charging.

### Long piping length

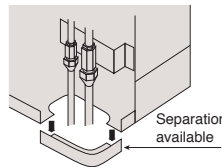
#### ■ Allowed refrigerant piping length and level difference

	ALL model
Pre charged <sup>1</sup>	30 m
Max. length	50 m (Equivalent length 70m)
Max. level difference	30 m

Note : <sup>1</sup>Additional refrigerant charging is required if the refrigerant pipe is longer than the length.

### 4-direction piping offers greater layout freedom (RZR100-140 only)

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.



### Facilitates pump down (Refrigerant recovery function)

A pump-down switch is provided to make it easier to collect refrigerant if the unit is to be moved or layout modified.

\*Pump-down function is available for pre-charged refrigerant amount.

### Low gas pressure detection function

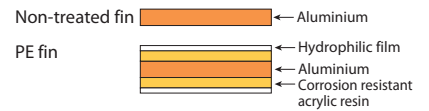
Effective gas monitoring reduces the labor required for operation, maintenance, and repairs.

## Durability

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

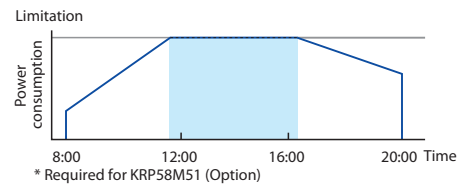
Heat exchange fins provided with anti-corrosion treatment

#### Construction



## Demand Control Function

The maximum capacity is maintained within a set level of power consumption, which makes it possible to keep comfort and effective demand control.

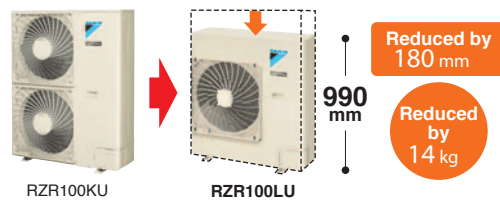


## Compact and lightweight

Reduced installation work thanks to light, compact outdoor unit.

#### ■ Comparison of outdoor units

	Conventional (RZR100KU)	NEW (RZR100LU)
Height	1,170 mm	990 mm
Weight	92 kg	78 kg



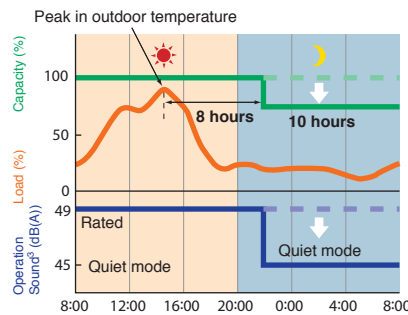
## Night time quiet operation function

The Automatic night quiet mode will initiate 8 hours after the peak temperature is reached in the daytime, and normal operation will resume 10 hours after that.

★ Reducing noise will reduce capacity slightly.

	Sound level <sup>1</sup> (dB(A))	
	Rated <sup>2</sup>	Night Quiet Mode
RZR50/60LU	48	44
RZR71LU	48	44
RZR100LU/100HU	49	45
RZR125LU/125HU	50	45
RZR140LU/140HU	50	46

Note : <sup>1</sup> Anechoic chamber conversion value, measured according to JIS parameters and criteria. During operation these values are somewhat higher owing to ambient conditions.  
<sup>2</sup> Value when cooling. Value will differ when heating.



# Technology for energy efficiency

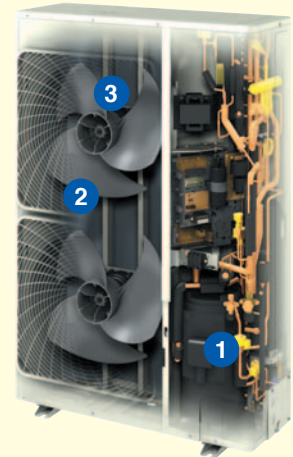
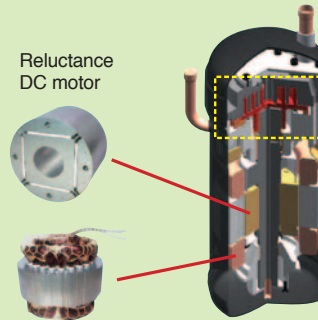
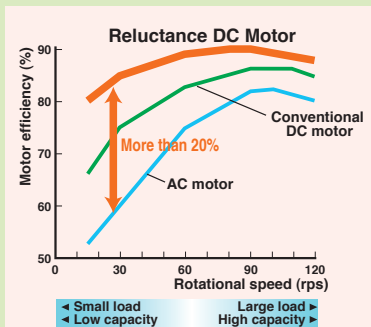
## The high efficiency compressor to achieve a high COP

### 1 Compressor equipped with Reluctance DC motor

Daikin DC Inverter models are equipped with the Reluctance DC motor for compressor.

The Reluctance DC motor uses 2 different types of torque, neodymium magnet\*1 and reluctance torque\*2.

This motor can save energy because it generates more power with a smaller electric power than an AC or conventional DC motor.



Note: Data are based on studies conducted under controlled conditions at a Daikin laboratory.

- \*1. A neodymium magnet is approximately 10 times stronger than a standard ferrite magnet.
- \*2. The torque created by the change in power between the iron and magnet parts.

### >> Smooth sine wave DC inverter

Use of an optimised sine wave DC inverter smoothes motor rotation, further improving operating efficiency.

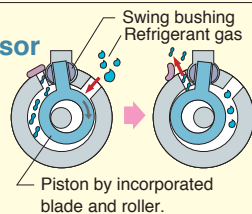
Sine wave DC inverter



RZR50/60/71/100LUV1

### >> Swing compressor

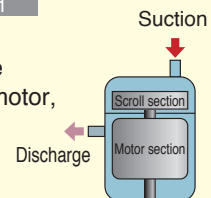
Energy savings is realised, eliminating the friction and the leakage of refrigerant gas.



RZR125/140LUV1, RZR100/125/140HUY1

### >> The structural scroll

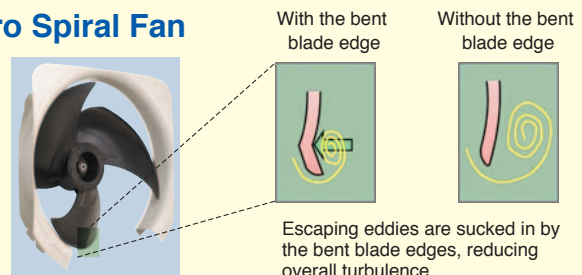
Sucked gas is compressed in the scrolling part before the heated motor, so that the machine compresses the non-expanded gas, resulting in high efficiency compression.



### 2 Smooth Air Inlet Bell Mouth and Aero Spiral Fan

(RZR100-140 only)

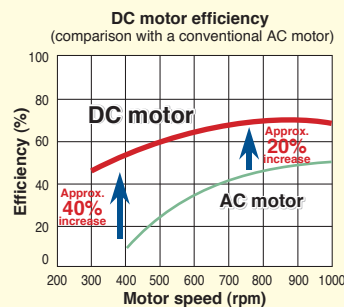
These two features work to reduce noise. Guides are added to the bell mouth intake to reduce turbulence in the airflow generated by fan suction. The Aero Spiral Fan features fan blades with the bent blade edges, further reducing turbulence.



### 3 DC fan motor

Efficiency improved in all areas compared to conventional AC motors, especially at low speeds.

DC fan motor structure



Note: Data are based on studies conducted under controlled conditions at a Daikin laboratory.

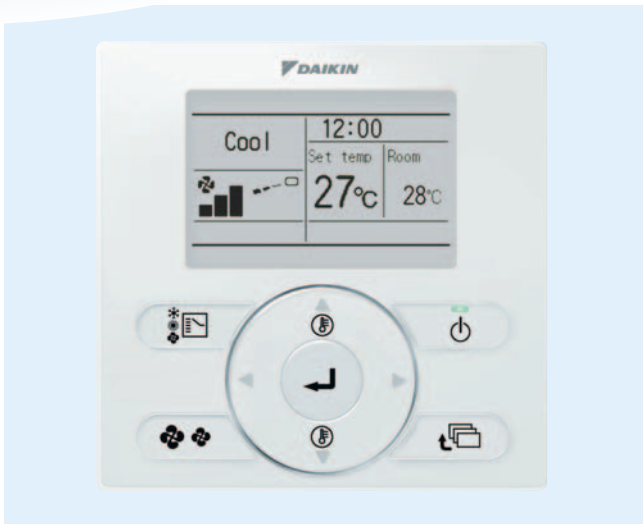
# Easy-to-read LCD remote controller allows various can control multiple indoor units.

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

## Navigation Remote Controller (Wired Remote Controller BRC1E61)

### Clear display, Simple operation, "Navigation Remote Controller!"

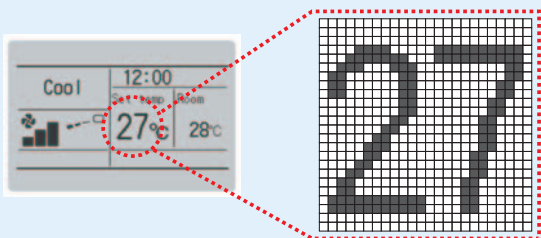
This simple, modern designed remote controller with fresh white colour matches your interior design. Operation is much easier and smoother, just follow the indications on the navigation remote controller.



#### Clear Display

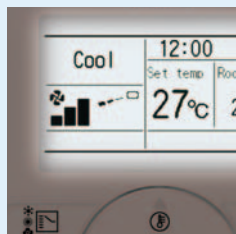
##### Dot matrix display

A combination of fine dots enables various icons and texts to be displayed smoothly. Large text display improves readability.



##### Backlight display

Equipped backlight helps operating in dark rooms.



#### Simple operation

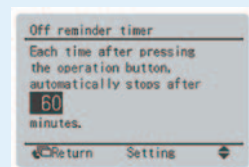
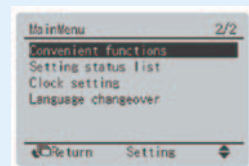
##### Large buttons and arrow keys



Large buttons and arrows keys for easy operation. Basic settings such as fan speed and temperature can be intuitively operated. For other settings just select the function from the menu list.

##### Guide on display

The display gives an explanation of each setting for easy operation.



#### Other Features

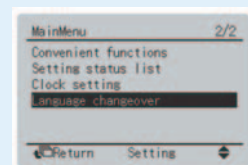
##### Weekly schedule timer

The schedule timer for each day of the week can be set up easily.



##### Multilingual display

Display is available in 10 languages. (English, German, French, Spanish, Italian, Portuguese, Greek, Dutch, Russian and Turkish).



# us system control configurations and

## Wired LCD remote controller

Easier to read because LCD screen is larger.



BRC1C61

- For easier operation, louver switches, which are frequently used, have been made larger.
- Oil-resistant plastic casing.
- Only 17 mm thick. Can be installed either recessed or exposed.

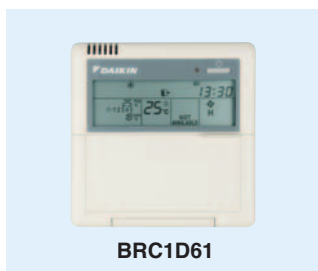
## Wired remote controller has built-in temperature-sensor

(Applies to wired remote controllers (BRC1D61, BRC1E61))

- 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.)

## Wired LCD remote controller with weekly schedule timer

Remote control is equipped with weekly timer function.



BRC1D61

- 24-hour clock function.
- Programming function for each day of week.
- Scheduling possible of start/stop and temperature limit (5 settings/day).

## 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.

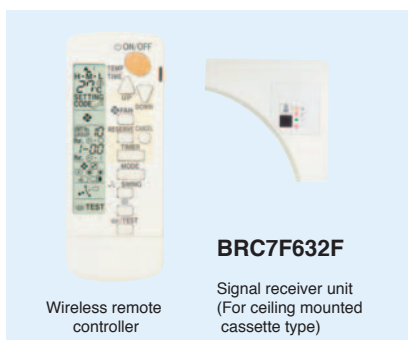
Setting contents: High ceiling use, air direction, filter type, address for centralised control (group control address is set automatically).

- Remote controller is equipped with model name and failure display functions. This facilitates service in the unlikely event of a malfunction.

(Applies to wired remote controller (BRC1E61))

## LCD wireless remote controller

Light receptor mounted type



Wireless remote controller

BRC7F632F

Signal receiver unit (For ceiling mounted cassette type)

- The wireless remote controller is supplied in a set with a signal receiver.
- 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.

## 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.

## Indoor units applicable for the remote controller

Signal receiver unit is contained inside decoration panel or indoor unit

CEILING MOUNTED CASSETTE TYPE	BRC7F632F
COMPACT MULTI FLOW TYPE	BRC7E531W
CEILING SUSPENDED TYPE	BRC7EA66
CEILING MOUNTED BUILT-IN TYPE	BRC4C62
DUCT CONNECTION MIDDLE HIGH 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).



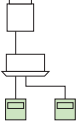
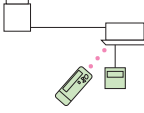
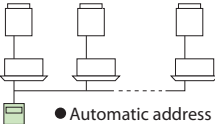
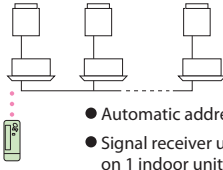


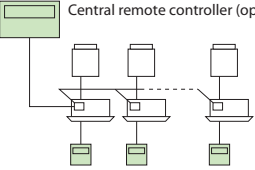
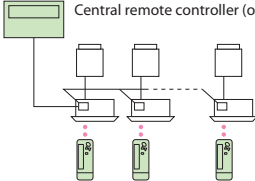
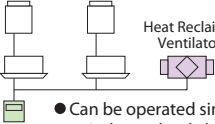
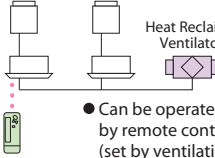
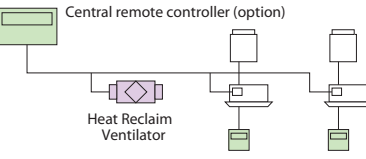
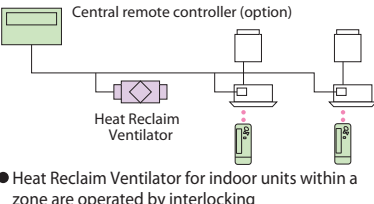
### Programming time display

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.





# Simple system provides a diverse assortment of control modes.

	Control pattern	Wired remote controller	Wireless remote controller
<b>Control by 1 remote controller</b>	(Basic system)	 <ul style="list-style-type: none"> <li>● Non-polar, double-core (max. wiring length 500 m)</li> </ul>	 <ul style="list-style-type: none"> <li>● Signal receiver unit installed on indoor unit</li> </ul>
<b>Control by 2 remote controllers</b>	For control from 2 locations such as in room and control room, exits, etc.	 <ul style="list-style-type: none"> <li>● Connects 2 wired remote controllers</li> </ul>	 <ul style="list-style-type: none"> <li>● Control by 1 wireless remote controller and 1 wired remote controller (See note 1)</li> <li>● Signal receiver unit installed on indoor unit</li> </ul>
<b>Group control</b>	For simultaneous control of up to 16 indoor units.	 <ul style="list-style-type: none"> <li>● Automatic address setting function</li> </ul>	 <ul style="list-style-type: none"> <li>● Automatic address setting function</li> <li>● Signal receiver unit installed on 1 indoor unit</li> </ul>
<b>Control by external command</b>	Operation and surveillance is carried out using the contact signal from the operation control box in the building surveillance (security) room.	 <ul style="list-style-type: none"> <li>● Optional wiring adaptor for electrical appendices is necessary</li> </ul>	 <ul style="list-style-type: none"> <li>● Optional wiring adaptor for electrical appendices is necessary</li> </ul>
<b>Centralised remote control</b>	Centralised control of up to 64 indoor groups from remote location up to 1 kilometer away.	 <ul style="list-style-type: none"> <li>● Central remote controller (option)</li> <li>● Optional SkyAir series interface adaptor required. <sup>1</sup></li> </ul>	 <ul style="list-style-type: none"> <li>● Central remote controller (option)</li> <li>● Optional SkyAir series interface adaptor required. <sup>1</sup></li> </ul>
<b>Interlock control with Heat Reclaim Ventilator</b>	Link by remote controller group control.	 <ul style="list-style-type: none"> <li>● Can be operated simultaneously or independently by remote controller (set by ventilation mode)</li> </ul>	 <ul style="list-style-type: none"> <li>● Can be operated simultaneously by remote controller (set by ventilation mode)</li> </ul>
	Zone link control by centralised control.	 <ul style="list-style-type: none"> <li>● Heat Reclaim Ventilator for indoor units within a zone are operated by interlocking. Can also be operated independently by remote controller.</li> </ul>	 <ul style="list-style-type: none"> <li>● Heat Reclaim Ventilator for indoor units within a zone are operated by interlocking</li> </ul>

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

<sup>1</sup>The ceiling mounted cassette type <Round Flow> and Duct connection middle/high static pressure type come standard with an interface adaptor for SkyAir series (DTA112BA51).

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

Central remote controller	Unified on/off controller	Schedule timer	Intelligent Controller
<b>DCS302CA61 (Option)</b>  <p>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.</p>	<b>DCS301BA61 (Option)</b>  <p>Centralised control of on/off by group or all at once for up to 256 indoor units.</p>	<b>DST301BA61 (Option)</b>  <p>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.</p>	<b>DCS601C51 (Option)</b>  <p>With its high functionality, the full colour "all-in-one" graphic controller facilitates management of SkyAir System in a variety of ways.</p>

**Interface adaptor for SkyAir series**  
DTA112BA51 (Option)

Enables centralised control via connection to a high-speed, DIII-NET communication system, adopted for the Daikin VRV system. Necessary for interface adaptor for SkyAir series with the central remote control units shown at above.

● The interface adaptor for the SkyAir series is optional except for the ceiling mounted cassette type <Round Flow> and the duct connection middle/high static pressure type.

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

• Note: Some features only available on selected models. See model pages 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.

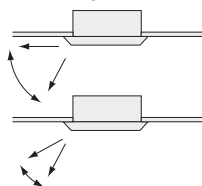
■ The air flow direction can be fixed at your desired angle by the remote controller.

### Swing pattern selection

(standard, ceiling soiling prevention)

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

- (1) Air direction in standard setting
- (2) Air direction in ceiling soiling prevention setting



### Switchable fan speed

\*available on all models.

High setting provides maximum reach while low setting minimises drafts.

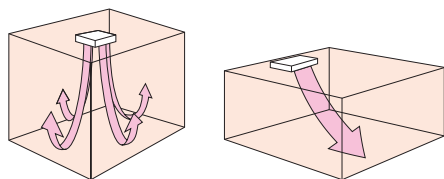
### Programme "Dry" with a humidity sensor

\*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.

### High-ceiling application

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

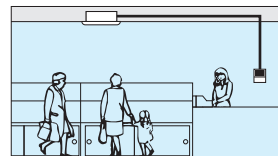


Note: When units are installed on high ceilings, depending on the model, various restrictions concerning maximum height, air discharge direction, and choice of options may apply.

### 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.

### Night quiet operation

The Automatic night quiet mode will initiate 8 hours after the peak temperature is reached in the daytime, and normal operation will resume 10 hours after that.

### Timer selector

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

### 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.

## Cleanliness

### Anti-bacterial air filter

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

### Mould-proof drain pan

Mould-proofing maintains hygiene by preventing growth in highly humid conditions.

### Silver ion anti-bacterial drain pan

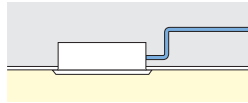
Drain pan has silver ion anti-bacterial treatment to help prevent the growth of bacteria and mould.

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

## 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 30 metres

If refrigerant piping length does not exceed 30 m, there is no need for on-site gas charging.

\*Applicable to RZR50-140LU, RZR100-140HU.  
RXS50FA/60F/71F, RKS25A/35A/50A/60A : 10 m

### ■ Long-life filter

Maintenance is not required for one year (two years when a ceiling mounted cassette type is used).

### ■ Ceiling soiling prevention function

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

### ■ 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.

### ■ Low gas pressure detection

Insufficient gas charging is normally hard to detect. During post-installation trials and regular inspection procedures, the refrigerant level is monitored by microprocessor to maintain proper gas pressure. Reliability is assured and maintenance and inspection can be carried out more quickly.

### ■ Emergency operation

If there is a malfunction elsewhere in the system, the fan or compressor can still be operated.

### ■ 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. To facilitate quick response in the event of a malfunction, a message appears on the LCD of the remote controller and an LED on the unit illuminates.

## Control features

### ■ Auto-restart

\*available on all models.

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

\*Required for KRP58M51 (Option)

### ■ Central remote control

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

### ■ Interlock control

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

## Options

### ■ High-efficiency filter unit

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/m<sup>3</sup>

### ■ Fresh-air intake kit

You can provide air-conditioning with fresh air from outside. 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.

\*\*Outside Air fan interlocked with air conditioning unit is necessary. Optional PCB(KRP1C63)is required for interlocking.

\*\*\*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 noise and may also influence temperature sending.

## Others

### ■ Anti corrosion treated heat exchangers

To achieve increased durability by improved resistance to salt corrosion and atmospheric pollution, coated Anti corrosion treated heat exchangers (with special acryl pretreatment) 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

			50	60	71	100	125	140	100	125	140		
Model Name	Indoor unit		FCQ50KVEA	FCQ60KVEA	FCQ71KVEA	FCQ100KVEA	FCQ125KVEA	FCQ140KVEA	FCQ100KVEA	FCQ125KVEA	FCQ140KVEA		
	Outdoor unit		RZR50LUV1	RZR60LUV1	RZR71LUV1	RZR100LUV1	RZR125LUV1	RZR140LUV1	RZR100HUY1	RZR125HUY1	RZR140HUY1		
Power supply			1 Phase, 220-240 V, 50 Hz						3 Phase, 380-415 V, 50 Hz				
Cooling capacity <sup>1</sup> Rated (Min. - Max.)			kW		5.0 (2.3-5.6)	6.0 (2.6-6.3)	7.1 (3.2-8.0)	10.0 (5.0-11.2)	12.5 (5.7-14.0)	14.0 (6.2-15.4)	10.0 (5.0-11.2)	12.5 (5.7-14.0)	14.0 (6.2-15.4)
Power consumption			kW		1.30	1.62	1.99	2.78	3.68	4.91	2.94	3.77	4.95
Indoor unit	Colour	Unit	Fresh white										
	Decoration panel												
	Airflow rate (H/L)		m <sup>3</sup> /min	21/13.5			32/20	33/22.5		32/20	33/22.5		
			cfm	741/477			1,129/706	1,164/794		1,129/706	1,164/794		
	Sound level (H/L) <sup>2</sup>		dB(A)	35/28			43/32	44/34	44/36	43/32	44/34	44/36	
	Dimensions (H×W×D)		Unit	256×840×840			50×950×950			298×840×840			
	Machine weight		Unit	21			24						
	Decoration panel		kg				5.5						
Certified operation range			Cooling		°CWB								
					14 to 25								
Outdoor unit	Colour	Ivory white											
	Compressor	Type	Hermetically sealed swing type					Hermetically sealed scroll type					
	Motor output		kW		1.12	1.35	1.76	2.03	2.4	3.1	1.6	2.3	2.8
	Refrigerant charge (R-410A)		kg		1.6 (Charged for 30 m)			3.35 (Charged for 30 m)	3.7 (Charged for 30 m)		3.9 (Charged for 30 m)	4.3 (Charged for 30 m)	
	Sound level <sup>2</sup>		Cooling	dB(A)		48	49	50		49	50		
	Night quiet mode		dB(A)		44	45	45	46	45	45	46		
	Dimensions (H×W×D)		mm		595×845×300			990×940×320	1,170×900×320		1,345×900×320		
	Machine weight		kg		43	78	97		94	104			
	Certified operation range			Cooling		°CDB							
						21 to 46			-5 to 46				
Piping connections	Liquid (Flare)	mm		ø9.5									
	Gas (Flare)	mm		ø15.9									
	Drain	Indoor unit	mm		I.D ø25×O.D ø32								
		Outdoor unit	mm		ø26.0 (Hole)								
Max. interunit piping length			m		50 (Equivalent length 70)								
Max. installation level difference			m		30								
Heat insulation			Both liquid and gas piping										

## COMPACT MULTI FLOW CEILING MOUNTED CASSETTE TYPE

			25	35	
Model Name	Indoor unit		FFQ25BV1B	FFQ35BV1B	
	Outdoor unit		RKS25AVMG	RKS35AVMG	
Power supply			1 Phase, 220-240 V, 50 Hz		
Cooling capacity <sup>1</sup> Rated (Min. - Max.)			kW		
			2.5 (1.2-3.0)	3.4 (1.2-3.7)	
Power consumption			kW		
			0.73	1.10	
Indoor unit	Colour	Unit	White		
	Decoration panel				
	Airflow rate (H)		m <sup>3</sup> /min	9/6.5	10/6.5
			cfm	317/229	353/229
	Sound level (H/L) <sup>2</sup>		dB(A)	29.5/24.5	
	Dimensions (H×W×D)		Unit	286×575×575	
	Machine weight		Unit	55×700×700	
	Decoration panel		kg	17.5	2.7
Certified operation range			°CWB		
			14 to 25		
Outdoor unit	Colour	Ivory white			
	Compressor	Type	Hermetically sealed swing type		
	Motor output		kW		
			0.6		
	Refrigerant charge (R-410A)		kg		
			1.0 (Charged for 10 m)		
	Sound level <sup>2</sup>		dB(A)		
		46		47	
Dimensions (H×W×D)		mm			
		550×765×285			
Machine weight		kg			
		34			
Certified operation range			°CDB		
			10 to 46		
Piping connections	Liquid (Flare)	mm		ø6.4	
	Gas (Flare)	mm		ø9.5	
	Drain	Indoor unit	mm		
		Outdoor unit	mm		
				VP20 (I.D ø20×O.D ø26)	
				ø18.0 (Hole)	
Max. interunit piping length			m		
			20		
Max. installation level difference			m		
			15		
Heat insulation			Both liquid and gas piping		

Note :

<sup>1</sup>Rated cooling capacities are based on the following conditions: Indoor temp., 27°CDB, 19.0°CWB; outdoor temp. 35°CDB Equiv. refrigeration piping, 7.5 m (horizontal).

<sup>2</sup>Anechoic chamber conversion value, measured according to JIS parameters and criteria. During operation these values are somewhat higher owing to ambient conditions.

# SPECIFICATIONS

## CEILING SUSPENDED TYPE

		35		50		60			
Model Name	Indoor unit		FHQ35BVV1B		FHQ50BVV1B		FHQ60BVV1B		
	Outdoor unit		RKS35AVMG		RKS50AVMG		RKS60AVMG		
Power supply		1 Phase, 220-240 V, 50 Hz							
Cooling capacity <sup>1</sup> Rated (Min. - Max.)		kW		3.4 (1.2-3.7)		5.0 (1.7-5.6)		5.7 (1.7-6.0)	
Power consumption		Cooling		kW		1.05		1.72	
Indoor unit		Colour		White					
		Airflow rate (H)		m <sup>3</sup> /min		13/10		17/13	
				cfm		458/353		600/458	
		Sound level (H/L) <sup>2</sup>		dB(A)		37/32		38/33	
		Dimensions (HxWxD)		mm		195x960x680		195x1,160x680	
		Machine weight		kg		24		25	
		Certified operation range		°CWB		14 to 25		14 to 25	
Outdoor unit		Colour		Ivory white					
		Compressor		Type					
				Hermetically sealed swing type					
		Motor output		kW		0.6		1.1	
		Refrigerant charge (R-410A)		kg		1.0 (Charged for 10 m)		1.5 (Charged for 10 m)	
		Sound level <sup>2</sup>		dB(A)		47		49	
		Dimensions (HxWxD)		mm		550x765x285		735x825x300	
		Machine weight		kg		34		47	
		Certified operation range		°CDB		10 to 46		10 to 46	
Piping connections		Liquid (Flare)		mm		ø9.5		ø6.4	
		Gas (Flare)		mm		ø12.7		ø12.7	
		Drain		Indoor unit		mm		VP20 (I.D ø20xO.D ø26)	
				Outdoor unit		mm		ø18.0 (Hole)	
Max. interunit piping length		m		20		30		20	
Max. installation level difference		m		15		20		20	
Heat insulation		Both liquid and gas piping							

## CEILING SUSPENDED TYPE

		50		60		71		100		125		100		125			
Model Name	Indoor unit		FHQ50BVV1G		FHQ60BVV1G		FHQ71BVV1B		FHQ100BVV1B		FHQ125BVV1B		FHQ100BVV1B		FHQ125BVV1B		
	Outdoor unit		RZR50LUV1		RZR60LUV1		RZR71LUV1		RZR100LUV1		RZR125LUV1		RZR100HUY1		RZR125HUY1		
Power supply		1 Phase, 220-240 V, 50 Hz										3 Phase, 380-415 V, 50 Hz					
Cooling capacity <sup>1</sup> Rated (Min. - Max.)		kW		5.0 (2.3-5.6)		6.0 (2.6-6.3)		7.1 (3.2-8.0)		10.0 (5.0-11.2)		12.5 (5.7-14.0)		10.0 (5.0-11.2)		12.5 (5.7-14.0)	
Power consumption		Cooling		kW		1.39		1.69		2.50		3.51		4.55		3.51	
Indoor unit		Colour		White													
		Airflow rate (H/L)		m <sup>3</sup> /min		17/14		24/20		30/25		24/20		30/25			
				cfm		600/494		847/706		1,059/883		847/706		1,059/883			
		Sound level (H/L) <sup>2</sup>		dB(A)		39/35		42/37		44/39		42/37		44/39			
		Dimensions (HxWxD)		mm		195x1,160x680		195x1,400x680		195x1,590x680		195x1,400x680		195x1,590x680			
		Machine weight		kg		27		32		35		32		35			
		Certified operation range		°CWB		14 to 25		14 to 25		14 to 25		14 to 25		14 to 25			
Outdoor unit		Colour		Ivory white													
		Compressor		Type													
				Hermetically sealed swing type													
		Motor output		kW		1.12		1.35		1.76		2.03		2.6		2.1	
		Refrigerant charge (R-410A)		kg		1.6 (Charged for 30 m)		3.35 (Charged for 30 m)		3.7 (Charged for 30 m)		3.9 (Charged for 30 m)		4.3 (Charged for 30 m)			
		Sound level <sup>2</sup>		Cooling		dB(A)		48		49		50		49		50	
				Night quiet mode		dB(A)		44		45		45		45			
		Dimensions (HxWxD)		mm		595x845x300		990x940x320		1,170x900x320		1,345x900x320		1,345x900x320			
		Machine weight		kg		43		78		97		94		104			
		Certified operation range		°CDB		21 to 46		21 to 46		21 to 46		-5 to 46		-5 to 46			
Piping connections		Liquid (Flare)		mm		ø9.5		ø9.5		ø9.5		ø9.5		ø9.5			
		Gas (Flare)		mm		ø15.9		ø15.9		ø15.9		ø15.9		ø15.9			
		Drain		Indoor unit		mm		VP20 (I.D ø20xO.D ø26)		VP20 (I.D ø20xO.D ø26)		VP20 (I.D ø20xO.D ø26)		VP20 (I.D ø20xO.D ø26)			
				Outdoor unit		mm		ø26.0 (Hole)		ø26.0 (Hole)		ø26.0 (Hole)		ø26.0 (Hole)			
Max. interunit piping length		m		50 (Equivalent length 70)		50 (Equivalent length 70)		50 (Equivalent length 70)		50 (Equivalent length 70)		50 (Equivalent length 70)		50 (Equivalent length 70)			
Max. installation level difference		m		30		30		30		30		30		30			
Heat insulation		Both liquid and gas piping															

Note :

<sup>1</sup>Rated cooling capacities are based on the following conditions: Indoor temp., 27°CDB, 19.0°CWB; outdoor temp. 35°CDB Equiv. refrigeration piping, 7.5 m (horizontal).

<sup>2</sup>Anechoic chamber conversion value, measured according to JIS parameters and criteria. During operation these values are somewhat higher owing to ambient conditions.

## CEILING MOUNTED BUILT-IN TYPE

		50		60		71				
Model Name	Indoor unit		FBQ50BV1A		FBQ60BV1A		FBQ71BV1A			
	Outdoor unit		RXS50FAVMA		RXS60FVMA		RXS71FVMA			
Power supply		1 Phase, 220-240 V, 50 Hz								
Cooling capacity <sup>1</sup> Rated (Min. - Max.)		kW		5.0 (1.7-5.6)		5.7 (1.7-7.0)		6.7 (2.3-8.0)		
Power consumption		Cooling		kW		2.23		2.57		
Indoor unit	Colour									
	Fan	Airflow rate (H/L)	Cooling	m <sup>3</sup> /min cfm		13/9 459/318		18/13 636/459		
	External static pressure <sup>2</sup> (High-Standard-Low)		Pa		88-49-20					
	Sound level <sup>3</sup>	Cooling (H/L)	dB(A)		33/29		34/30			
	Dimensions (HxWxD)		mm		300x700x800		300x1000x800			
	Machine weight		kg		34		41			
	Certified Operation range		Cooling		°CWB		14 to 25			
Outdoor unit	Colour		Ivory white							
	Compressor		Type		Hermetically sealed swing type					
	Refrigerant charge (R-410A)		Motor output		kW		1.1		1.92	
	Refrigerant charge (R-410A)		kg		1.5 (Charged for 10 m)		2.3 (Charged for 10 m)			
	Sound level <sup>3</sup>	Cooling	dB(A)		47		49		52	
	Dimensions (HxWxD)		mm		735x825x300		770x900x320			
	Machine weight		kg		48		71			
Certified Operation range		Cooling		°CDB		10 to 46				
Piping connections	Liquid		mm		ø12.7		ø6.4		ø15.9	
	Gas		mm		ø12.7		ø6.4		ø15.9	
	Drain		mm		ø12.7		ø6.4		ø15.9	
	Indoor unit		mm		ø12.7		ø6.4		ø15.9	
Outdoor unit		mm		ø18.0 (Hole)		ø6.4		ø26.0 (Hole)		
Max. interunit piping length		m		30		20				
Max. installation level difference		m		20		Both liquid and gas piping				
Heat insulation				Both liquid and gas piping						

## DUCT CONNECTION MIDDLE and HIGH STATIC PRESSURE TYPE

		50		60		71		100		125		140		100		125		140						
Model Name	Indoor unit		FBQ50DV1		FBQ60DV1		FBQ71DV1		FBQ100DV1		FBQ125DV1		FBQ140DV1		FBQ100DV1		FBQ125DV1		FBQ140DV1					
	Outdoor unit		RZR50LUV1		RZR60LUV1		RZR71LUV1		RZR100LUV1		RZR125LUV1		RZR140LUV1		RZR100HUY1		RZR125HUY1		RZR140HUY1					
Power supply		1 Phase, 220-240 V, 50 Hz														Indoor unit : 1 Phase, 220-240 V, 50 Hz Outdoor unit : 3 Phase, 380-415 V, 50 Hz								
Cooling capacity <sup>1</sup> Rated (Min. - Max.)		kW		5.0 (2.3-5.6)		6.0 (2.6-6.3)		7.1 (3.2-8.0)		10.0 (5.0-11.2)		12.5 (5.7-14.0)		14.0 (6.2-15.4)		10.0 (5.0-11.2)		12.5 (5.7-14.0)		14.0 (6.25-15.4)				
Power consumption		Cooling		kW		1.39		1.69		2.22		2.82		3.73		4.71		3.13		3.97		4.75		
Indoor unit	Colour																							
	Fan	Airflow rate (H/L)	Cooling	m <sup>3</sup> /min cfm		18/15 635/530		32/23 1,130/812		39/28 1,377/988		32/23 1,130/812		39/28 1,377/988										
	External static pressure <sup>2</sup> (Middle-High)		Pa		50-200																			
	Sound level <sup>3</sup>	Cooling (H/L)	dB(A)		37/32		38/33		40/36		38/33		40/36											
	Dimensions (HxWxD)		mm		300x1,000x700		300x1,000x700		300x1,400x700		300x1,400x700		300x1,400x700											
	Machine weight		kg		36		36		46		46		46											
	Certified Operation range		Cooling		°CWB		14 to 25																	
Outdoor unit	Colour		Ivory white																					
	Compressor		Type		Hermetically sealed swing type						Hermetically sealed scroll type													
	Refrigerant charge (R-410A)		Motor output		kW		1.12		1.35		1.76		2.03		2.4		2.9		1.6		2.3		2.8	
	Refrigerant charge (R-410A)		kg		1.6 (Charged for 30 m)		1.6 (Charged for 30 m)		3.35 (Charged for 30 m)		3.7 (Charged for 30 m)		3.9 (Charged for 30 m)		4.3 (Charged for 30 m)									
	Sound level <sup>3</sup>	Cooling	dB(A)		48		49		50		49		50											
	Dimensions (HxWxD)		mm		595x845x300		990x940x320		1,170x900x320		1,345x900x320		1,345x900x320											
	Machine weight		kg		43		78		97		94		104											
Certified Operation range		Cooling		°CDB		21 to 46						-5 to 46												
Piping connections	Liquid (Flare)		mm		ø9.5		ø9.5		ø15.9		ø15.9		ø15.9											
	Gas (Flare)		mm		ø15.9		ø15.9		ø15.9		ø15.9		ø15.9											
	Drain		mm		ø15.9		ø15.9		ø15.9		ø15.9		ø15.9											
	Indoor unit		mm		ø15.9		ø15.9		ø15.9		ø15.9		ø15.9											
Outdoor unit		mm		ø15.9		ø15.9		ø15.9		ø15.9		ø15.9												
Max. interunit piping length		m		50 (Equivalent length 70)		50 (Equivalent length 70)		50 (Equivalent length 70)		50 (Equivalent length 70)		50 (Equivalent length 70)												
Max. installation level difference		m		30		30		30		30		30												
Heat insulation				Both liquid and gas piping																				

Note :

<sup>1</sup>(FBQ50B-71B) :Rated cooling capacities are based on the following conditions: Suction temp., 27°CDB, 19.0°CWB; outdoor temp. 35°CDB. Equiv. refrigeration piping, 7.5 m (horizontal)

(FBQ50D-140D) :Rated cooling capacities are based on the following conditions: Suction temp., 27°CDB, 19.0°CWB; outdoor temp. 35°CDB. Equiv. refrigeration piping, 7.5 m (horizontal)

<sup>2</sup>Initial setting is standard.

<sup>3</sup>Anechoic chamber conversion value, measured according to JIS parameters and criteria. During operation these values are somewhat higher owing to ambient conditions.

## Indoor unit

### CEILING MOUNTED CASSETTE TYPE

Name of option	Remark	Kit name				
		FCQ50KVEA	FCQ60KVEA	FCQ71KVEA	FCQ100KVEA	FCQ125KVEA
Decoration panel		BYCP125K-W1				
Sealing member of air discharge outlet		KDBH55K160F				
Panel spacer		KDBP55H160FA				
Fresh air intake kit <sup>1</sup>	Chamber type	Without the T-joint pipe and fan	KDDP55B160			
		With the T-joint pipe, without fan	KDDP55B160K			
	Direct installation type	KDDP55X160				
Chamber connection kit <sup>2</sup>		KKSJ55KA160				
Insulation kit for high humidity		KDTP55K80		KDTP55K160		
High-efficiency filter	(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		KAFP55B160				
Replacement ultra long-life filter		KAFP55H160H				
Branch duct chamber		KDJP55B80		KDJP55B160		
Remote controller	Wireless type	BRC7F632F				
Wired LCD remote controller with weekly schedule timer		BRC1D61				
Navigation Remote Controller	Wired type <sup>3</sup>	BRC1E61				
Central remote controller <sup>4</sup>		DCS302CA61				
Unified ON/OFF controller <sup>4</sup>		DCS301BA61				
Schedule timer <sup>4</sup>		DST301BA61				
Intelligent Touch Controller <sup>4</sup>		DCS601C51				
Adaptor for wiring <sup>5</sup>		KRP1C63				
Wiring adaptor for electrical appendices <sup>5</sup>		KRP4AA53				
Installation box for adaptor PCB		KRP1H98				
Remote sensor (for indoor temperature)		KRCS01-4B				

Note: <sup>1</sup>Refer to page 8 for the details.

<sup>2</sup>Required for installing high-efficiency filter or ultra long-life filter.

<sup>3</sup>Wiring for wired remote controller to be procured locally.

<sup>4</sup>This type of indoor units is equipped with the interface adaptor for SkyAir series. DTA112BA51 is unnecessary.

<sup>5</sup>Installation 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

Independently installable optional parts	Optional accessory parts	Panel spacer <sup>1</sup>	Wireless remote controller	Fresh air intake kit (Chamber type) <sup>1,2</sup>	Fresh air intake kit (direct mount)	High-humidity operation kit	High-efficiency filter <sup>2</sup>	Ultra-long-life filter <sup>2</sup>
Operation control related	Wireless remote controller	O		O	O	O	O	O
Auxiliary function related	Fresh air intake kit (Chamber type) <sup>1,2</sup>	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 filter <sup>2</sup>	O	O	O	O	X		X
	Ultra-long-life filter <sup>2</sup>	O	O	O	O	X	X	

#### 3-way flow 2-way flow

Independently installable optional parts	Optional accessory parts	Panel spacer <sup>1</sup>	Wireless remote controller	Fresh air intake kit (Chamber type) <sup>1,2</sup>	Fresh air intake kit (direct mount)	High-humidity operation kit	High-efficiency filter <sup>2</sup>	Ultra-long-life filter <sup>2</sup>
Operation control related	Wireless remote controller	O <sup>3</sup>		O	O	O	X	O
Auxiliary function related	Fresh air intake kit (Chamber type) <sup>1,2</sup>	O <sup>3</sup>	O		X	X	X	O
	Fresh air intake kit (direct mount)	O <sup>3</sup>	O	X		O	X	O
	High-humidity operation kit	X	O	X	O		X	X
Filter related	Ultra-long-life filter <sup>2</sup>	O <sup>3</sup>	O	O	O	X	X	

#### Branch duct connection

Independently installable optional parts	Optional accessory parts	Panel spacer <sup>1</sup>	Wireless remote controller	Fresh air intake kit (Chamber type) <sup>1,2</sup>	Fresh air intake kit (direct mount)	High-humidity operation kit	High-efficiency filter <sup>2</sup>	Ultra-long-life filter <sup>2</sup>
	2-way branch / unit 2-way flow	X	O	O	O <sup>4</sup>	X	X	O
	1-way branch / unit 2-way flow	X	O	O	O <sup>4</sup>	X	X	O

<sup>1</sup>In 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.

<sup>2</sup>Use 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.

<sup>3</sup>It is not possible to use panel spacers in a 2-way flow installation.

<sup>4</sup>It 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

### COMPACT MULTI FLOW CEILING MOUNTED CASSETTE TYPE

Name of option	Remark	Kit name	
		FFQ25BV1B	FFQ35BV1B
Decoration panel			BYFQ60B8W1
Remote controller	Wireless type   Cooling only		BRC7E531W
Wired LCD remote controller with weekly schedule timer <sup>1</sup>			BRC1D61
Navigation Remote Controller	Wired type <sup>1</sup>		BRC1E61
Adaptor for wiring <sup>2</sup>			KRP1BA57
Wiring adaptor for electrical appendices <sup>2</sup>			KRP4AA53
Remote sensor (for indoor temperature)			KRCS01-1B
Installation box for adaptor PCB			KRP1BA101
Central remote controller <sup>3</sup>			DCS302CA61
Unified ON/OFF controller <sup>3</sup>			DCS301BA61
Schedule timer <sup>3</sup>			DST301BA61
Intelligent Touch Controller <sup>3</sup>			DCS601C51
Interface adaptor for SkyAir series			DTA112BA51
Replacement long-life filter			KAFQ441BA60
Fresh air intake kit	Direct installation type		KDDQ44XA60
Sealing member for air discharge outlet			KDBH44BA60
Panel spacer			KDBQ44BA60A

Note: <sup>1</sup>Wiring for wired remote controller to be procured locally.  
<sup>2</sup>Installation box for adaptor PCB (KRP1BA101) is necessary.  
<sup>3</sup>This optional accessory requires DTA112BA51.

### CEILING SUSPENDED TYPE

Name of option	Remark	Kit name							
		FHQ35BVV1B	FHQ50BVV1B	FHQ60BVV1B	FHQ50BVV1G	FHQ60BVV1G	FHQ71BVV1B	FHQ100BVV1B	FHQ125BVV1B
Replacement long-life filter	Resin net	KAF501DA56		KAF501DA80				KAF501DA112	KAF501DA160
Drain-up kit		KDU50N60VE				KDU50N125VE			
L-type piping kit (for upward direction)		KHFP5MA35	KHFP5MA63		KHFP5MA160				
Remote controller	Wireless type   Cooling only	BRC7EA66							
Wired LCD remote controller with weekly schedule timer <sup>1</sup>		BRC1D61							
Navigation Remote Controller	Wired type <sup>1</sup>	BRC1E61							
Central remote controller <sup>2</sup>		DCS302CA61							
Unified ON/OFF controller <sup>2</sup>		DCS301BA61							
Schedule timer <sup>2</sup>		DST301BA61							
Intelligent Touch Controller <sup>2</sup>		DCS601C51							
Adaptor for wiring		KRP1BA54							
Wiring adaptor for electrical appendices <sup>3</sup>		KRP4AA52							
Interface adaptor for SkyAir series		DTA112BA51							
Installation box for adaptor PCB		KRP1CA93							
Remote sensor (for indoor temperature)		-----						KRCS01-1B	
Electrical box with earth terminal (3 blocks)		-----						KJB311AA	
Electrical box with earth terminal (2 blocks)		-----						KJB212AA	

Note: <sup>1</sup>Wiring for wired remote controller to be procured locally.  
<sup>2</sup>This optional accessory requires DTA112BA51.  
<sup>3</sup>Installation box for adaptor PCB (KRP1CA93) is necessary.

### CEILING MOUNTED BUILT-IN TYPE

Name of option	Remark	Kit name		
		FBQ50BV1A	FBQ60BV1A	FBQ71BV1A
Service panel		KTB25KA56W	KTB25KA80W	
Air discharge adaptor		KDAJ25K56A	KDAJ25K71A	
Remote controller	Wireless type   Heat pump	BRC4C62		
Wired LCD remote controller with weekly schedule timer <sup>1</sup>		BRC1D61		
Navigation Remote Controller	Wired type <sup>1</sup>	BRC1E61		
Adaptor for wiring (interlock for fresh air intake fan)		KRP1BA54		
Wiring adaptor for electrical appendices		KRP4AA51		
Interface adaptor for SkyAir series		DTA112BA51		
Central remote controller <sup>2</sup>		DCS302CA61		
Unified ON/OFF controller <sup>2</sup>		DCS301BA61		
Schedule timer <sup>2</sup>		DST301BA61		
Intelligent Touch Controller <sup>2</sup>		DCS601C51		

Note: <sup>1</sup>Wiring for wired remote controller to be procured locally.  
<sup>2</sup>This optional accessory requires DTA112BA51.

## Indoor unit

### DUCT CONNECTION MIDDLE and HIGH STATIC PRESSURE TYPE

Name of option	Remark	Kit name					
		FBQ50DV1	FBQ60DV1	FBQ71DV1	FBQ100DV1	FBQ125DV1	FBQ140DV1
High-efficiency filter <sup>1</sup>	(Colorimetric method 65%)		KAF372AA80			KAF372AA160	
	(Colorimetric method 90%)		KAF373AA80			KAF373AA160	
Filter chamber			KDDF37AA80			KDDF37AA160	
Replacement long life filter			KAF371AA80			KAF371AA160	
Replacement long life filter chamber kit			KAF375AA80			KAF375AA160	
Service panel			KTBJ25K80W			KTBJ25K160W	
			KTBJ25K80F			KTBJ25K160F	
			KTBJ25K80T			KTBJ25K160T	
			KDAJ25K71A			KDAJ25K140A	
Air discharge adaptor							
Remote controller	Wireless type					BRC4C64	
	Cooling only					BRC1D61	
Wired LCD remote controller with weekly schedule timer <sup>2</sup>						BRC1E61	
Navigation Remote Controller	Wired type <sup>2</sup>					KRP1C64 *	
Adaptor for wiring (interlock for fresh air intake fan)						KRP4AA51 *	
Wiring adaptor for electrical appendices						KRCS01-4B	
Remote sensor						KRP4A96 <sup>5,6</sup>	
Mounting plate for adaptor PCB <sup>4</sup>						DCS302CA61	
Central remote controller <sup>3</sup>						DCS301BA61	
Unified ON/OFF controller <sup>3</sup>						DST301BA61	
Schedule timer <sup>3</sup>						DCS601C51	
Intelligent Touch Controller <sup>3</sup>							

Note: <sup>1</sup>If installing a high efficiency filter on the unit, an assembly chamber for either bottom or rear suction is required.

<sup>2</sup>Wiring for wired remote controller to be procured locally.

<sup>3</sup>This type of indoor units is equipped with the interface adaptor for SkyAir series. DTA112BA51 is unnecessary.

<sup>4</sup>Mounting plate for adaptor PCB is necessary for each adaptor marked ★.

<sup>5</sup>Up to 2 adaptors can be fixed for each mounting plate.

<sup>6</sup>Only one mounting plate can be installed for each indoor unit.

## Outdoor unit

Name of option	Kit name					
	RZR50LUV1	RZR60LUV1	RZR71LUV1	RZR100LUV1	RZR125LUV1	RZR140LUV1
Central drain plug		KKP014A4		KKPJ5G280		KKPJ5F180
Wire fixture for preventing overturning		-----		-----		K-KYZP15C
Fixture for preventing overturning		-----		KKTP5B112		KPT-60B160
Demand adaptor		-----				KRP58M51

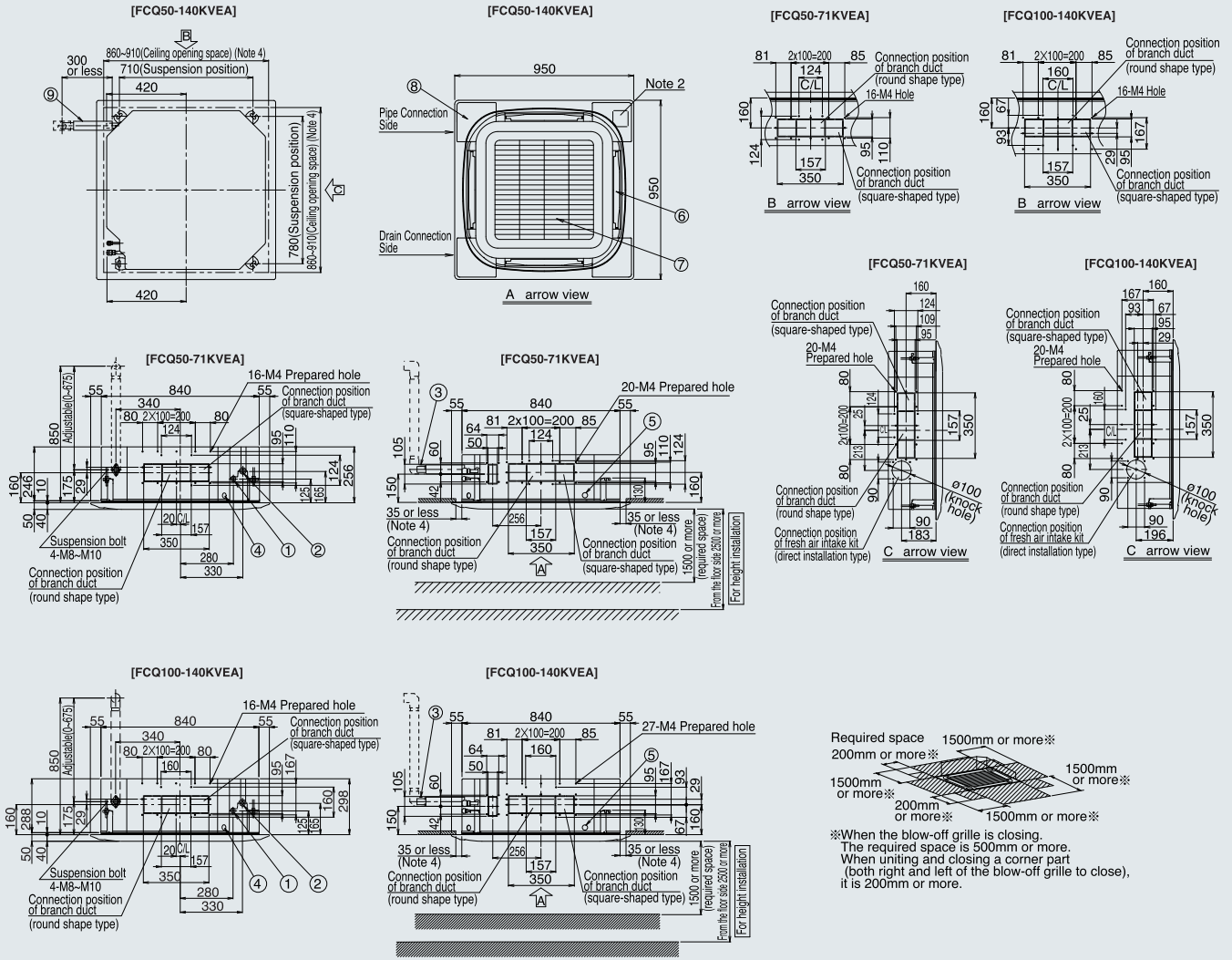
Name of option	Kit name		
	RZR100HUY1	RZR125HUY1	RZR140HUY1
Central drain plug		KKPJ5F180	
Wire fixture for preventing overturning		KPT-60B160	
Fixture for preventing overturning		K-KYZP15C	
Demand adaptor		KRP58M51	

Name of option	Remark	Kit name			
		RKS25AVMG	RKS35AVMG	RKS50AVMG	RKS60AVMG
Air direction adjustment grille		KPW937A4		KPW945A4	
Drain plug	One set includes 5 pieces for 5 units	KKP937A4			

Name of option	Remark	Kit name		
		RXS50FVMA	RXS60FVMA	RXS71FVMA
Air direction adjustment grille		KPW945A4		
Drain plug	One set includes 5 pieces for 5 units	KKP937A4		KKP945A4

# DIMENSIONS (Unit: mm)

## CEILING MOUNTED CASSETTE TYPE

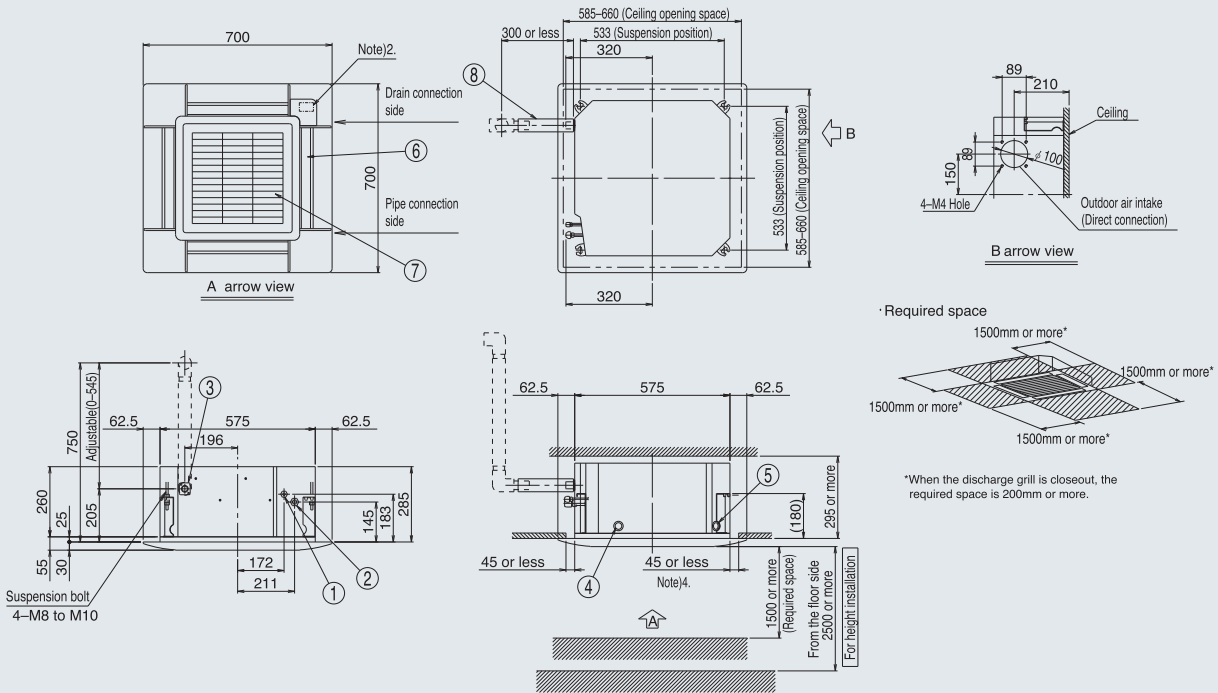


- Notes:
- <sup>1</sup> Sticking location for manufacture's label
  - manufacture's label for indoor unit:
  - Suction grille inner side's electric components box's lid surface
  - manufacture's label for decoration panel :
  - Decoration panel's corner decoration cover inner surface
  - <sup>2</sup> In case of using wireless remote controller, this position will be a signal receiver. Refer to the drawing of wireless remote controller in detail.
  - <sup>3</sup> When the temperature and humidity in the ceiling exceed 30°C and RH 80% or the fresh air is inducted into the ceiling or the unit continues 24 hour operation, an additional insulation (thickness 10mm or more of glasswool or polyethylene form) is required.
  - <sup>4</sup> Though the installation is acceptable up to maximum of 910mm square ceiling opening, keep the clearance of 35mm or less between the indoor unit and the ceiling opening so that the panel overlap allowance can be ensured.
  - <sup>5</sup> Please do not place the thing been damp and troubled under an indoor unit.
  - When the case where humidity is 80% or more, and the drain outlet are choked up and the air filter are dirty, dew may fall.

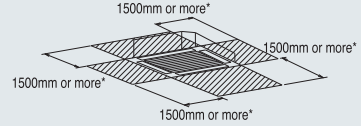
- ① Liquid pipe connection
- ② Gas pipe connection
- ③ Drain pipe connection
- ④ Power-source wiring and a unit wiring connection
- ⑤ Connection wiring / remote control wiring connection
- ⑥ Air-outlet
- ⑦ Suction grille
- ⑧ Corner decoration cover
- ⑨ Drain hose (accessory)

# DIMENSIONS (Unit: mm)

## COMPACT MULTI FLOW CEILING MOUNTED CASSETTE TYPE



Required space



\*When the discharge grille is closeout, the required space is 200mm or more.

Notes:

<sup>1</sup> Sticking location for manufacturer's label  
 manufacturer's label for indoor unit : on the bell mouth inside suction grille  
 manufacturer's label for decoration panel : on the inner frame inside suction grille

<sup>2</sup> In case of using wireless remote controller, this position will be a signal receiver.  
 refer to the drawing of wireless remote controller in detail.

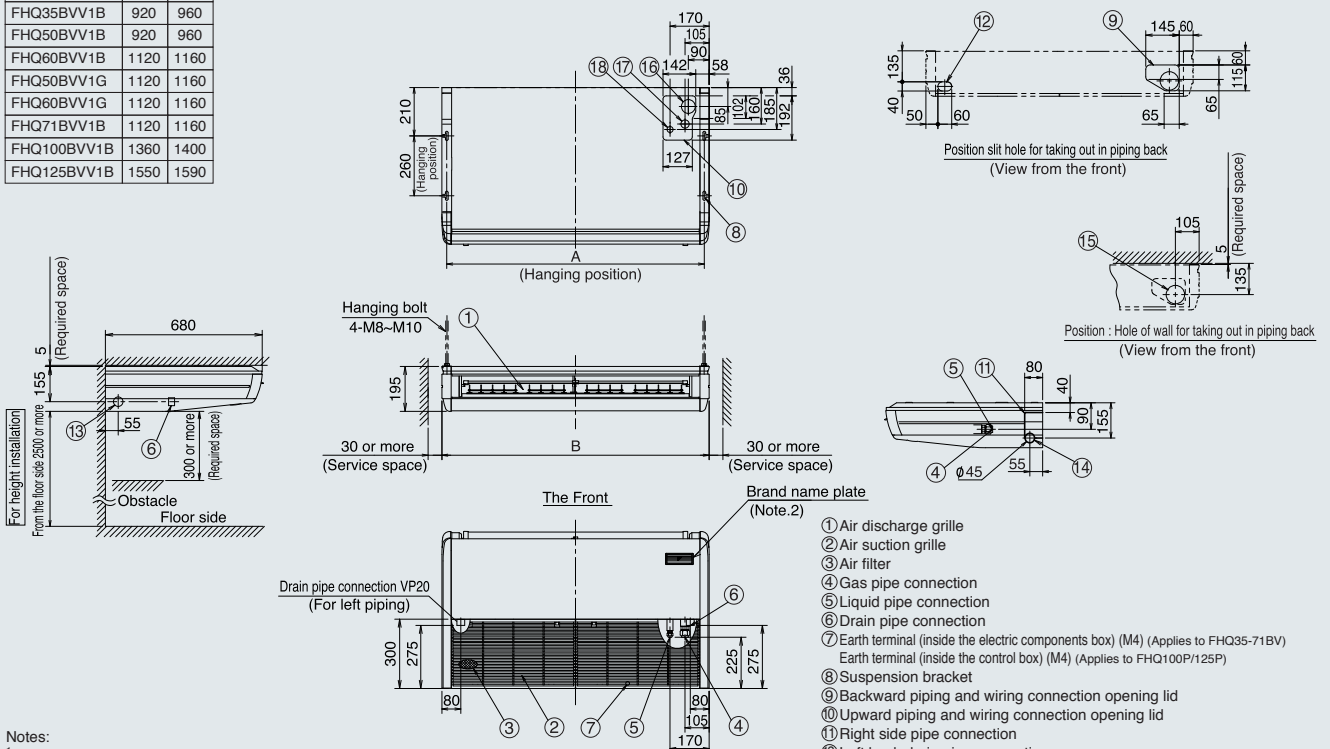
<sup>3</sup> When the temperature and humidity in the ceiling exceed 30°C and RH 80% or the fresh air is inducted into the ceiling or the unit continues 24 hour operation, an additional insulation (thickness 10mm or more of glasswool or polyethylene form) is required.

<sup>4</sup> Though the installation is acceptable up to maximum of 660mm square ceiling opening, keep the clearance of 45mm or less between the main unit and the ceiling opening so that the panel overlap allowance can be ensured.

- ① Liquid pipe connection
- ② Gas pipe connection
- ③ Drain pipe connection
- ④ Power supply connection
- ⑤ Remote control code and control wiring connection
- ⑥ Air discharge grille
- ⑦ Suction grille
- ⑧ Drain hose

## CEILING SUSPENDED TYPE

	A	B
FHQ35BVV1B	920	960
FHQ50BVV1B	920	960
FHQ60BVV1B	1120	1160
FHQ50BVV1G	1120	1160
FHQ60BVV1G	1120	1160
FHQ71BVV1B	1120	1160
FHQ100BVV1B	1360	1400
FHQ125BVV1B	1550	1590



Notes:

<sup>1</sup> Location of unit's Name Plate: Bottom of fan housing inside the suction grille.

<sup>2</sup> In case of using wireless remote controller, this position will be a signal receiver.  
 Refer to the drawing of wireless remote controller in detail.

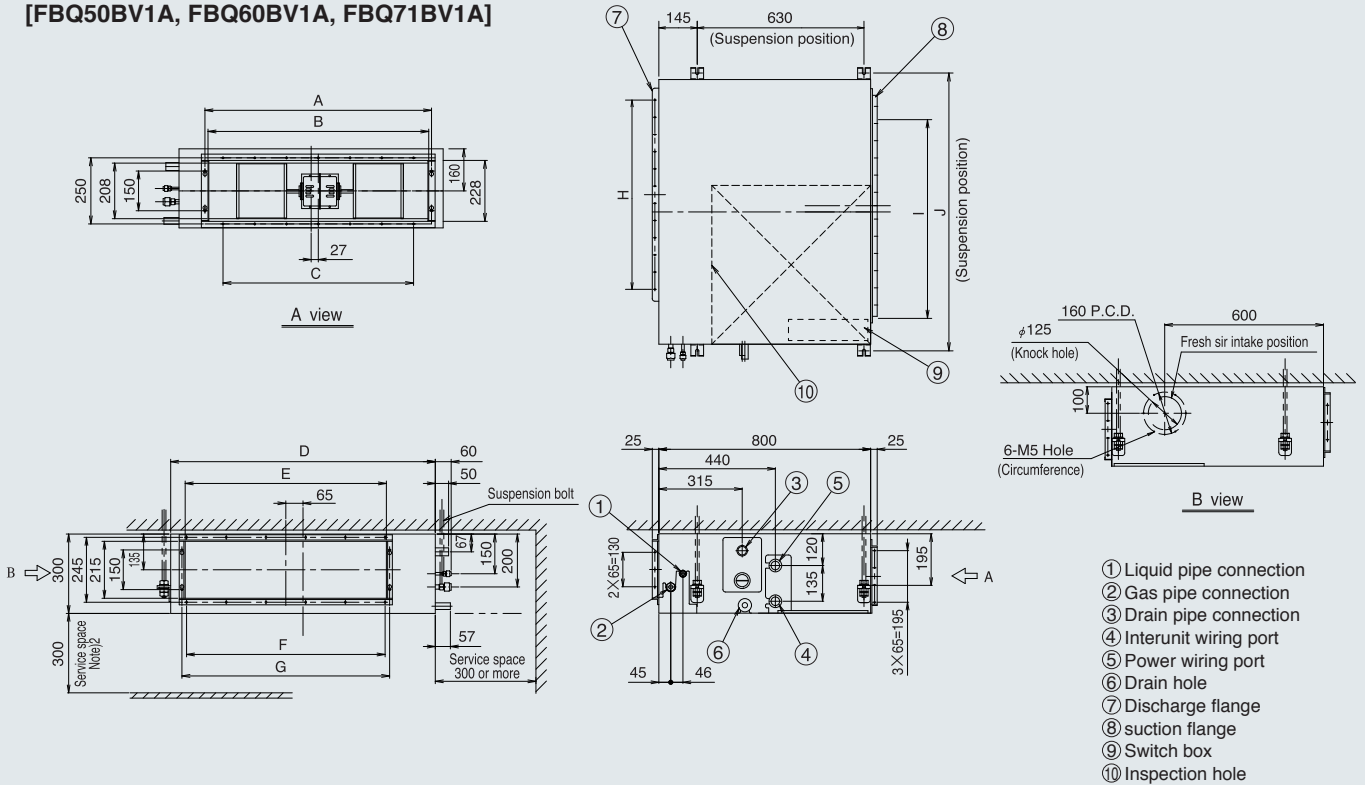
<sup>3</sup> (Applies to FHQ35-71BV only)  
 The remote control code is the standard <about 3 m outside the machine> attached.  
 (0.5 mm<sup>2</sup> × 2 wicks × O.D. φ 5.4)  
 (It is not attached to VRV.)

- ① Air discharge grille
- ② Air suction grille
- ③ Air filter
- ④ Gas pipe connection
- ⑤ Liquid pipe connection
- ⑥ Drain pipe connection
- ⑦ Earth terminal (inside the electric components box) (M4) (Applies to FHQ35-71BV)
- ⑧ Earth terminal (inside the control box) (M4) (Applies to FHQ100P/125P)
- ⑧ Suspension bracket
- ⑨ Backward piping and wiring connection opening lid
- ⑩ Upward piping and wiring connection opening lid
- ⑪ Right side pipe connection
- ⑫ Left back drain pipe connection
- ⑬ Left side drain pipe connection
- ⑭ Right side drain pipe connection
- ⑮ Hole of wall for taking out in piping back
- ⑯ Upward drain pipe connection
- ⑰ Upward gas pipe connection
- ⑱ Upward liquid pipe connection



## CEILING MOUNTED BUILT-IN TYPE

### [FBQ50BV1A, FBQ60BV1A, FBQ71BV1A]



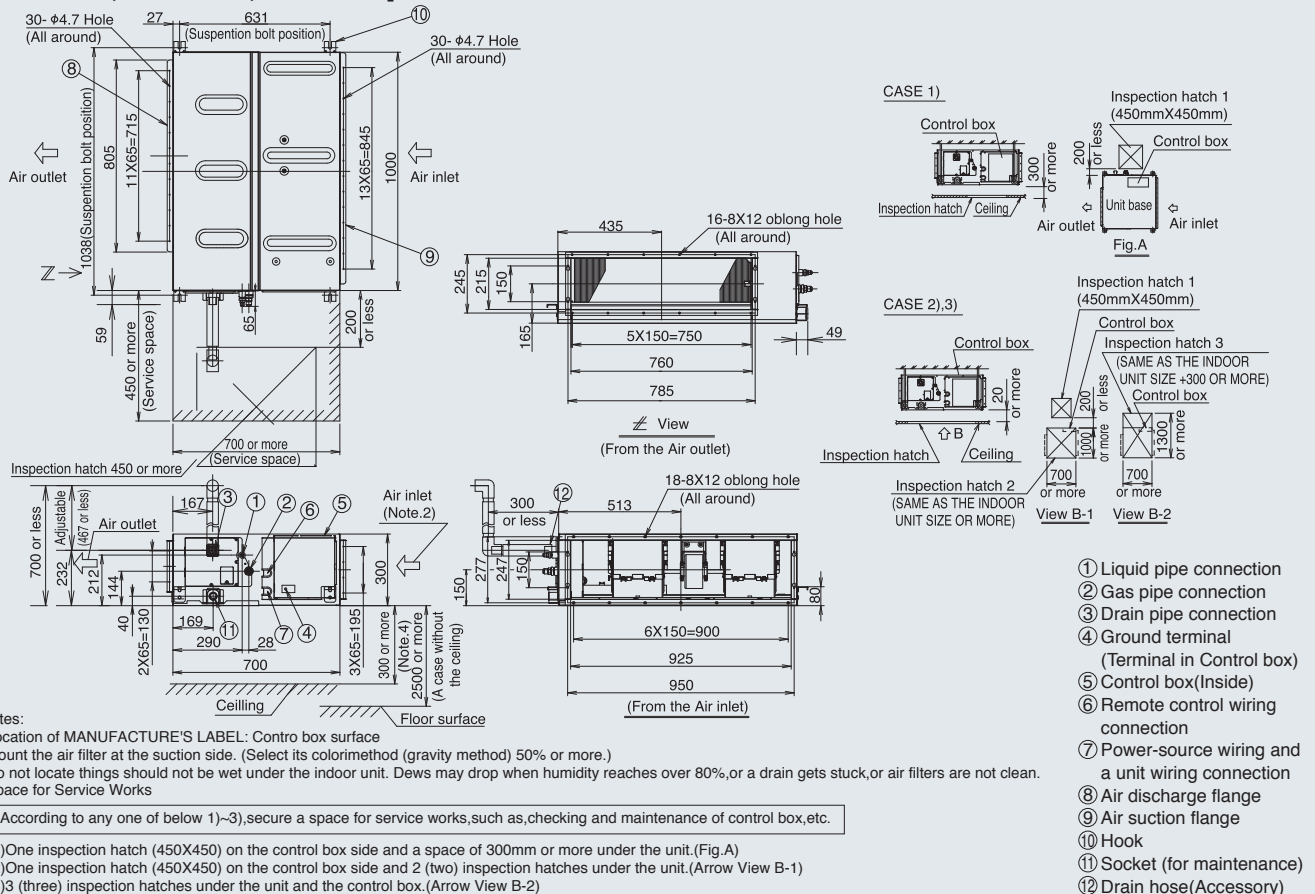
**Notes:**

- <sup>1</sup>Location of unit's Name Plate: Fan housing surface.
- <sup>2</sup>If the ceiling is not removable, a 300 mm service space must be kept between the unit and the ceiling.
- <sup>3</sup>Mount the air filter at the suction side.
- (Select its colorimethod (Gravity method) 50 % or more)

	A	B	C	D	E	F	G	H	I	J
FBQ50BV1A	556	533	4X120=480	700	460	3X150=450	485	6X65=390	7X65=455	750
FBQ60BV1A/71BV1A	856	833	6X120=720	1000	760	5X150=750	785	11X65=715	12X65=780	1050

## DUCT CONNECTION MIDDLE and HIGH STATIC PRESSURE TYPE

### [FBQ50DV1, FBQ60DV1, FBQ71DV1]



**Notes:**

- <sup>1</sup>Location of MANUFACTURE'S LABEL: Contro box surface
- <sup>2</sup>Mount the air filter at the suction side. (Select its colorimethod (gravity method) 50% or more.)
- <sup>3</sup>Do not locate things should not be wet under the indoor unit. Dews may drop when humidity reaches over 80%, or a drain gets stuck, or air filters are not clean.
- <sup>4</sup>Space for Service Works

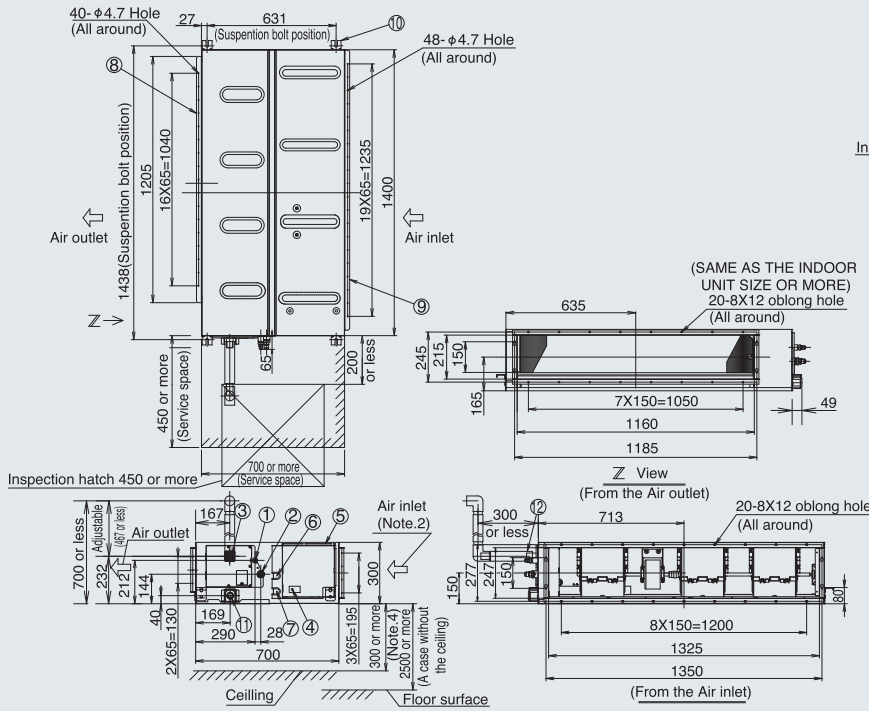
According to any one of below 1)~3), secure a space for service works, such as, checking and maintenance of control box, etc.

- 1) One inspection hatch (450X450) on the control box side and a space of 300mm or more under the unit. (Fig.A)
- 2) One inspection hatch (450X450) on the control box side and 2 (two) inspection hatches under the unit. (Arrow View B-1)
- 3) 3 (three) inspection hatches under the unit and the control box. (Arrow View B-2)

# DIMENSIONS (Unit: mm)

## DUCT CONNECTION MIDDLE and HIGH STATIC PRESSURE TYPE

### [FBQ100DV1, 125DV1, 140DV1]



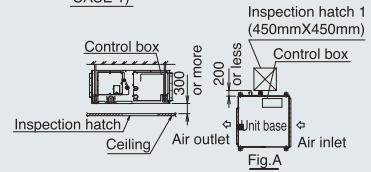
**Notes:**

- <sup>1</sup>Location of MANUFACTURE'S LABEL: Control box surface
- <sup>2</sup>Mount the air filter at the suction side.(Select its colorimethod (gravity method) 50% or more.
- <sup>3</sup>Do not locate things should not be wet under the indoor unit.Dews may drop when humidity reaches over 80%,or a drain gets stuck,or air filters are not clean.
- <sup>4</sup>Space for Service Works

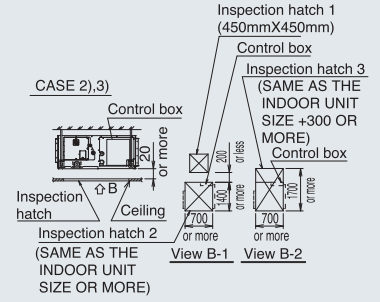
According to any one of below 1)~3),secure a space for service works,such as,checking and maintenance of control box,etc.

- 1)One inspection hatch (450X450) on the control box side and a space of 300mm or more under the unit.(Fig.A)
- 2)One inspection hatch (450X450) on the control box side and 2 (two) inspection hatches under the unit.(Arrow View B-1)
- 3)3 (three) inspection hatches under the unit and the control box.(Arrow View B-2)

**CASE 1)**

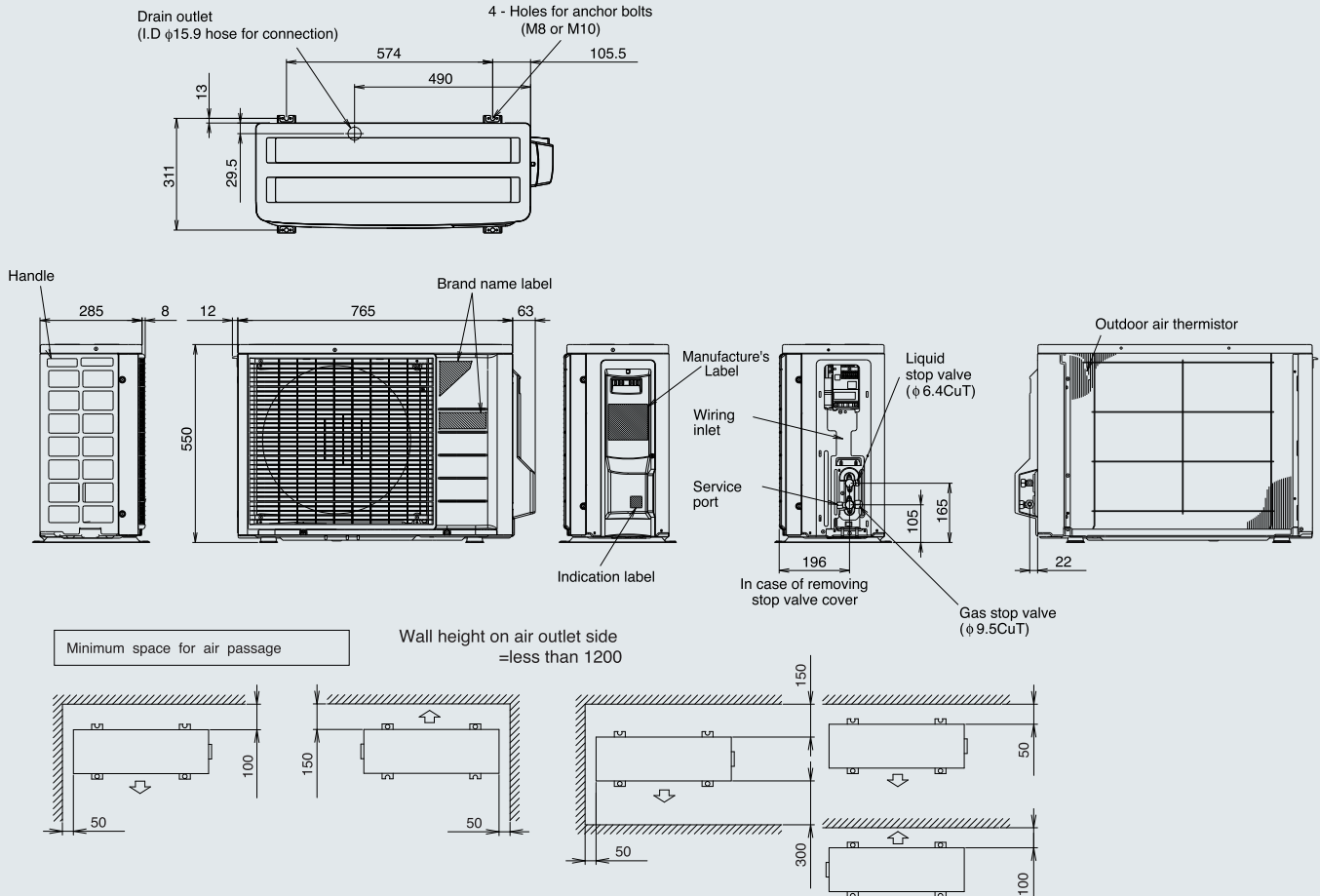


**CASE 2),3)**

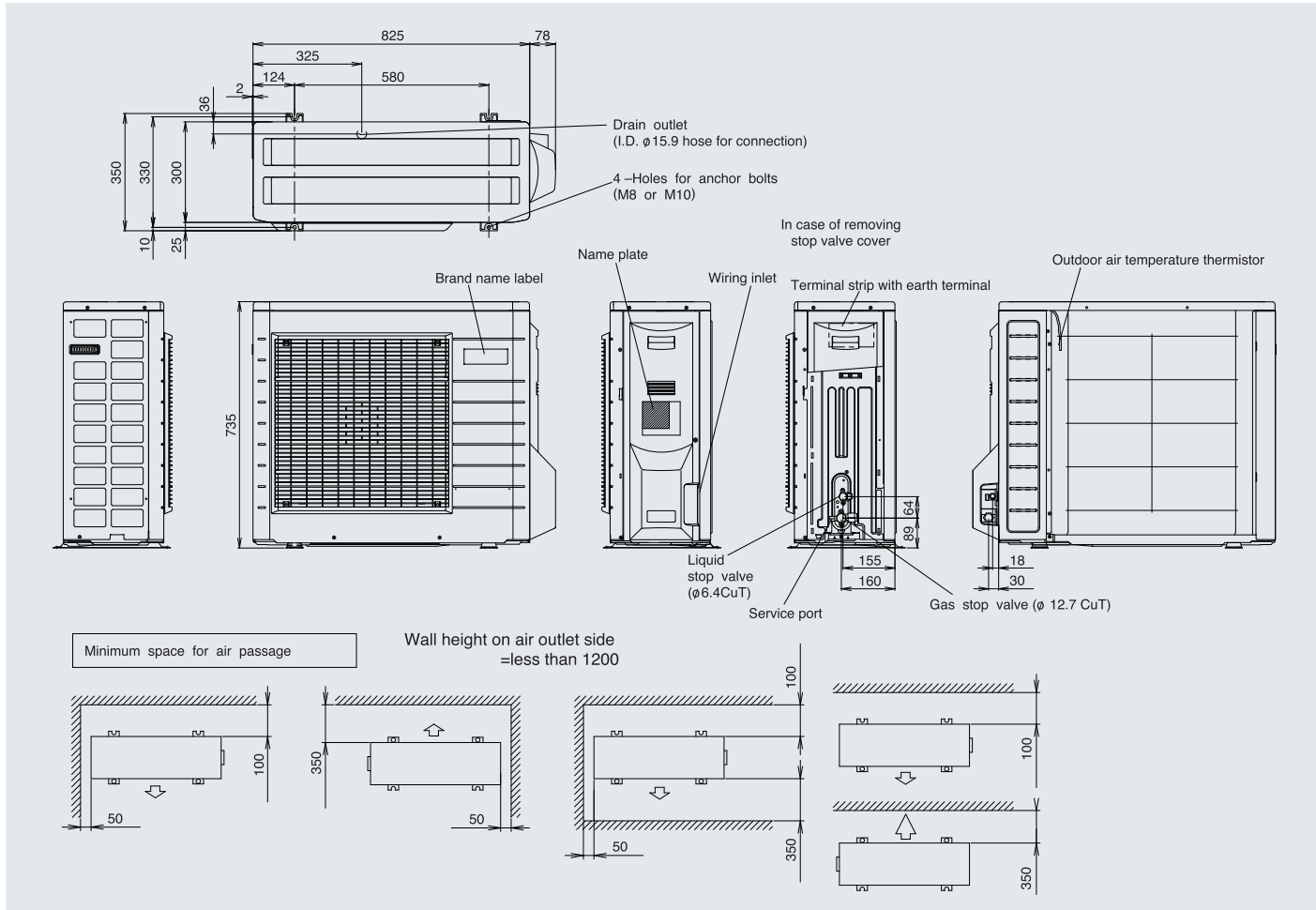


- ① Liquid pipe connection
- ② Gas pipe connection
- ③ Drain pipe connection
- ④ Ground terminal (Terminal in Control box)
- ⑤ Control box(Inside)
- ⑥ Remote control wiring connection
- ⑦ Power-source wiring and a unit wiring connection
- ⑧ Air discharge flange
- ⑨ Air suction flange
- ⑩ Hook
- ⑪ Socket(For maintenance)
- ⑫ Drain hose(Accessory)

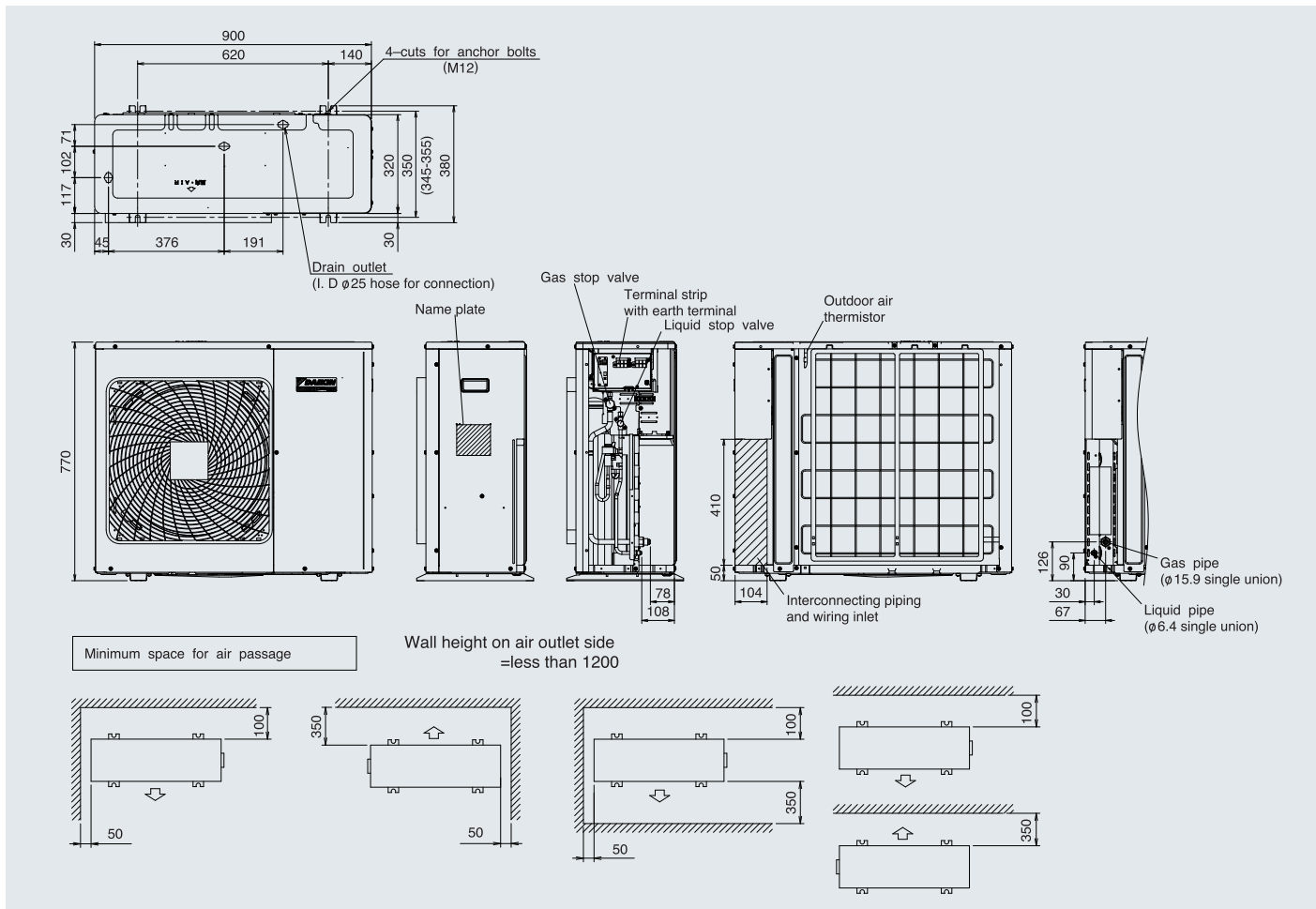
## OUTDOOR UNIT // RKS25AVMG, RKS35AVMG



**OUTDOOR UNIT // RKS50AVMG, RKS60AVMG, RXS50FVMA, RXS60FVMA**

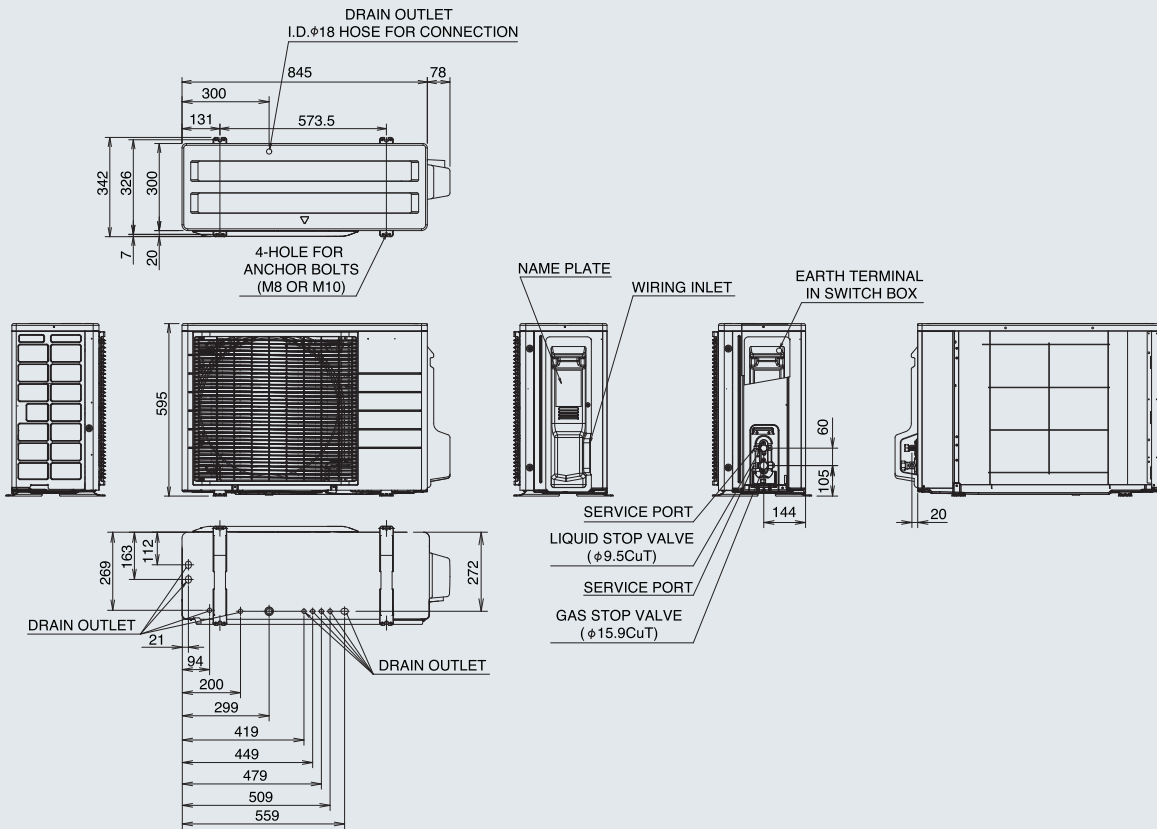


**OUTDOOR UNIT // RXS71FVMA**

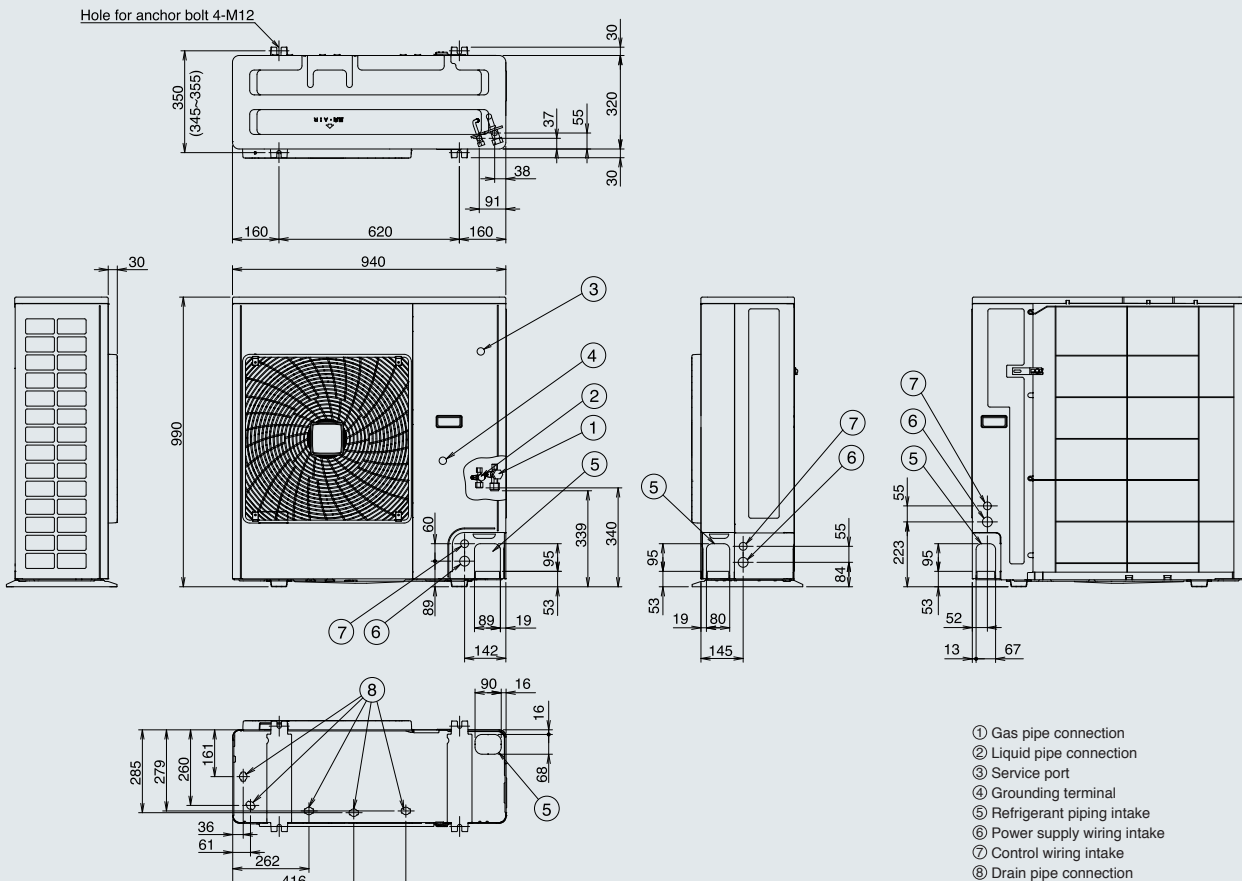


# DIMENSIONS (Unit: mm)

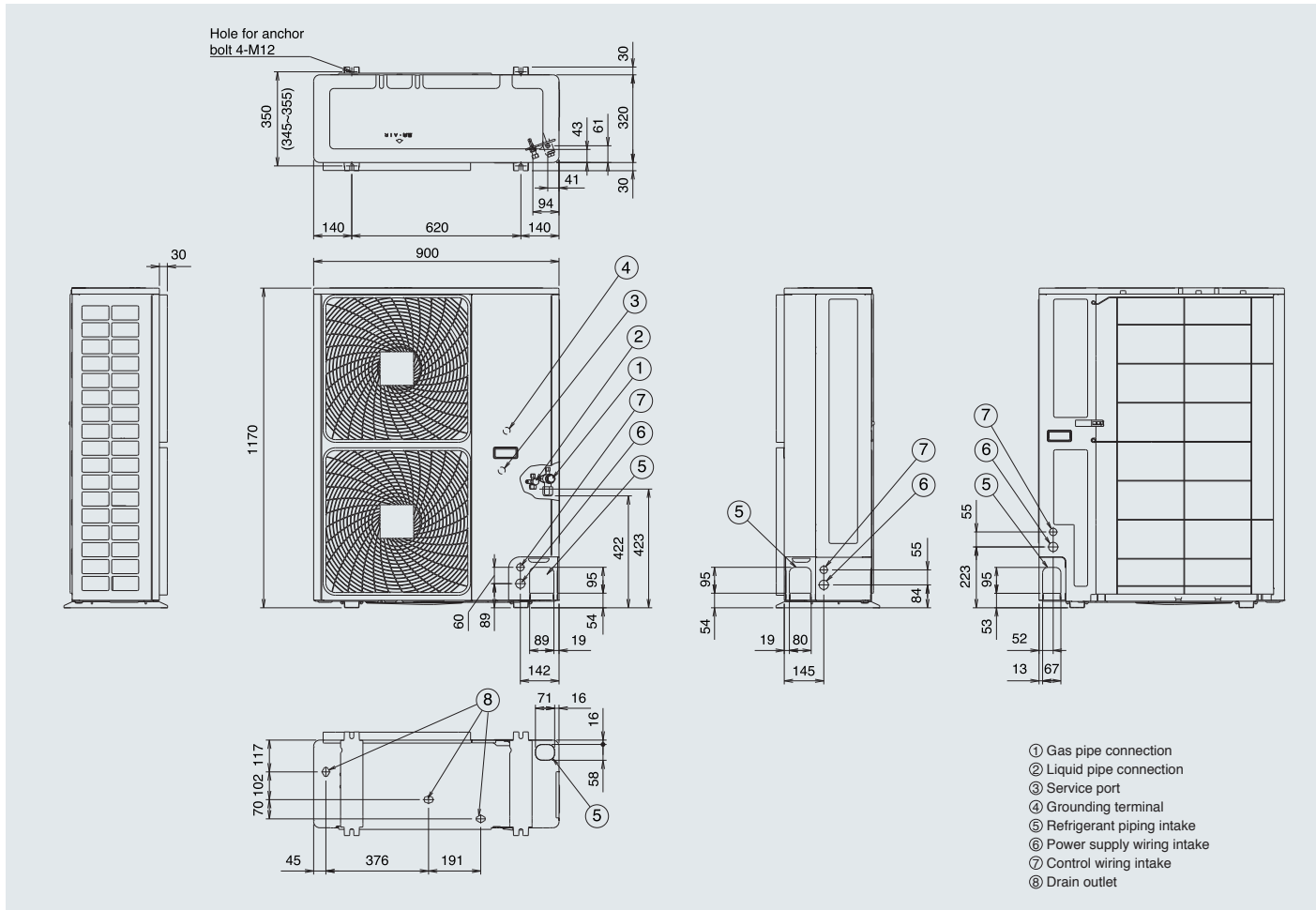
## OUTDOOR UNIT // RZR50LUV1, 60LUV1, 71LUV1



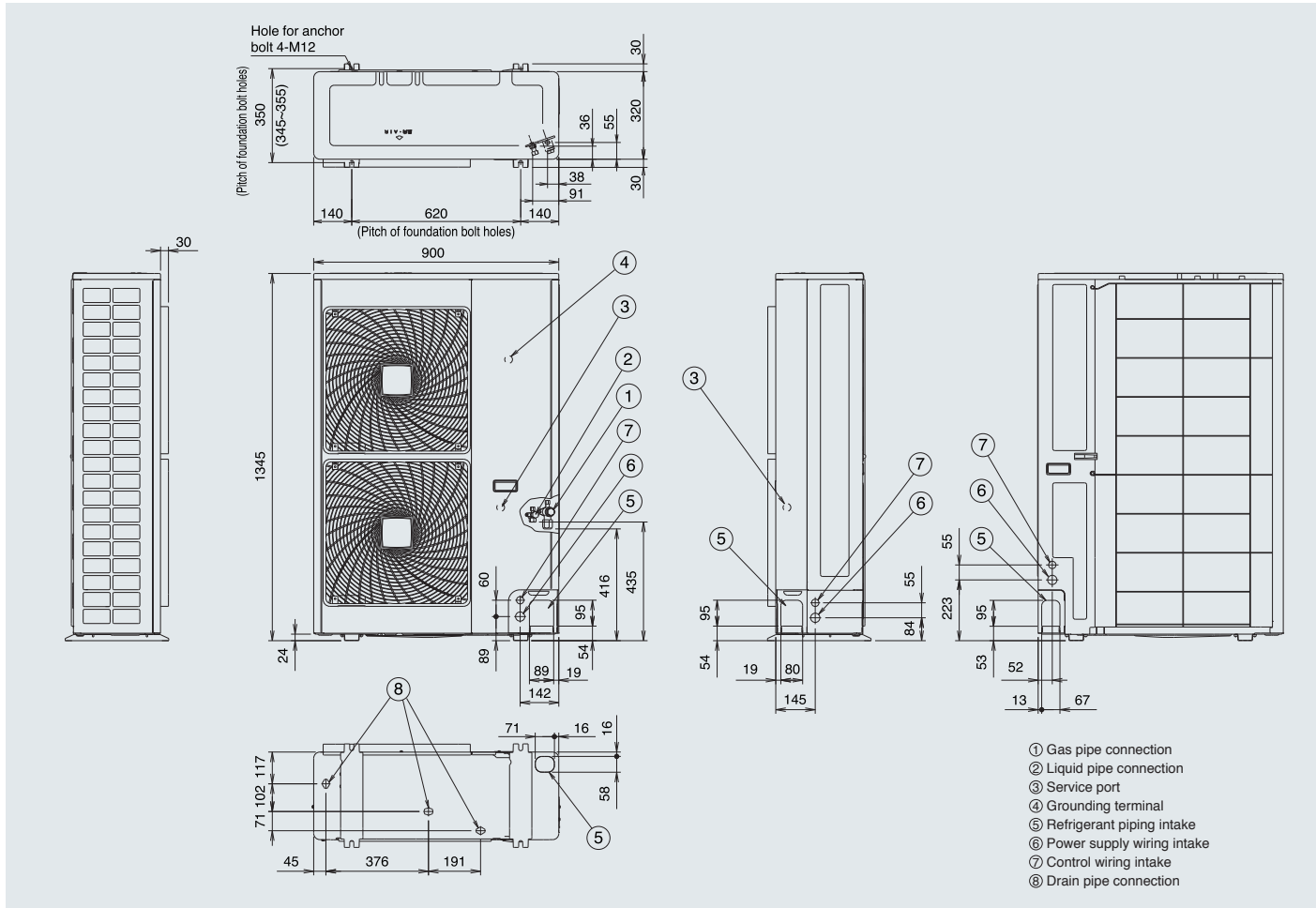
## OUTDOOR UNIT // RZR100LUV1



**OUTDOOR UNIT // RZR125LUV1, 140LUV1**



**OUTDOOR UNIT // RZR100HUY1, 125HUY1, 140HUY1**

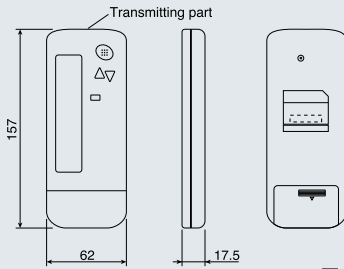


# DIMENSIONS (Unit: mm)

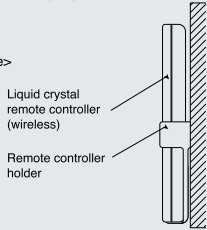
## REMOTE CONTROLLER

### 《Wireless type》

Remote controller dimensions

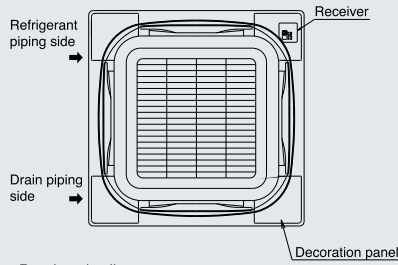


Remote controller holder installation procedure <installation to wall surface>

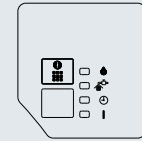


### CEILING MOUNTED CASSETTE TYPE <Round Flow>

Receiver installation procedure

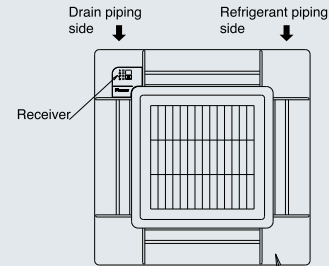


Receiver detail

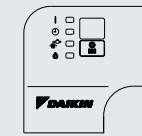


### COMPACT MULTI FLOW CEILING MOUNTED CASSETTE TYPE

Receiver installation procedure



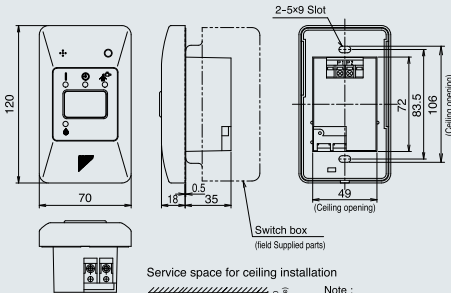
Receiver detail



Decoration panel  
(BYFQ60BW1)  
(BYFQ60B7W1)  
(BYFQ60B8W1)

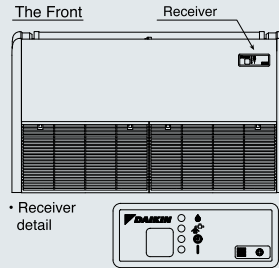
### CEILING MOUNTED BUILT-IN TYPE DUCT CONNECTION MIDDLE/HIGH STATIC PRESSURE TYPE

Receiver detail



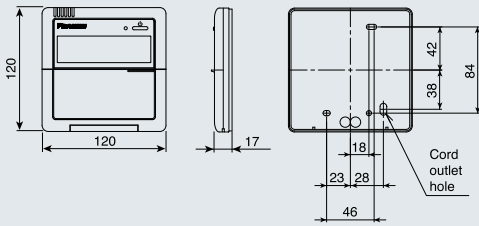
### CEILING SUSPENDED TYPE

Receiver installation procedure

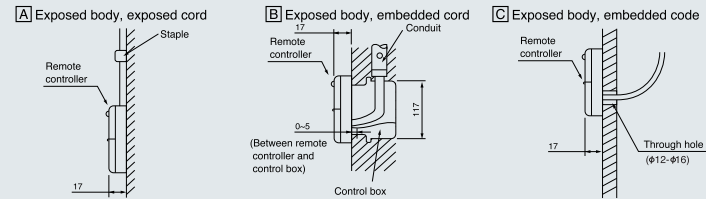


### 《Wired type》 Remote controller dimensions

BRC1D61 / BRC1C61



Installation method



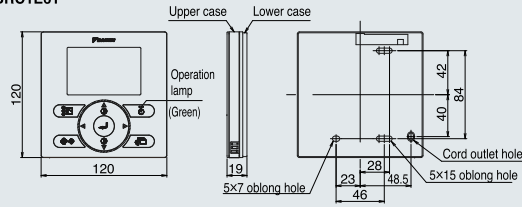
Specifications of cord

Type *	Shield wire (insulated thickness: 1 mm or more)
Size	0.75~1.25 mm <sup>2</sup>
Total length	500 m

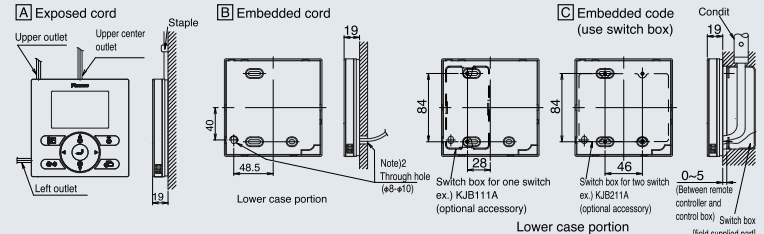
Note)

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

BRC1E61



Installation method



Specifications of cord

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

Note)

1. Remote controller cord and staple are not attached. They are field supplied parts.  
2. If the hole size is too large or the location is not proper, the hole may come out from the remote controller.

# Installation service space for outdoor unit

## For RZR50-140LUV1, RZR100-140HUY1

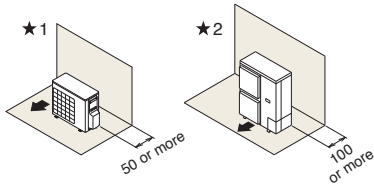
★1.RZR50/60/71LUV1 ★2.RZR100-140LUV1, RZR100-140HUY1

### 1 When there is an obstruction on the inlet side

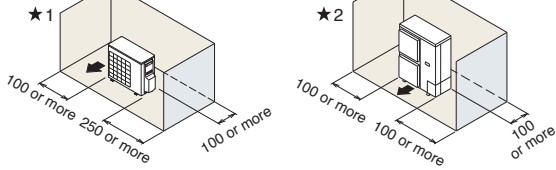
#### 1) When the overhead space is open

##### 1. For single unit installation

When there is an obstruction only on the inlet side

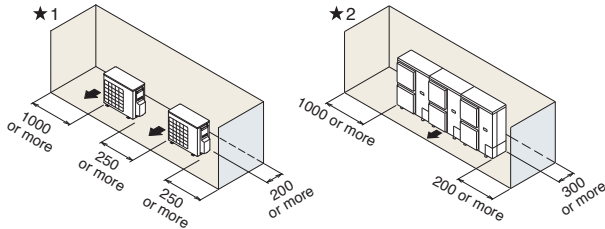


When there are obstructions on both sides



##### 2. For series installation (more than two units)

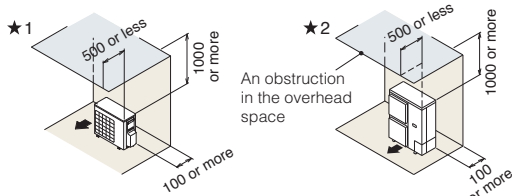
When there are obstructions on both sides



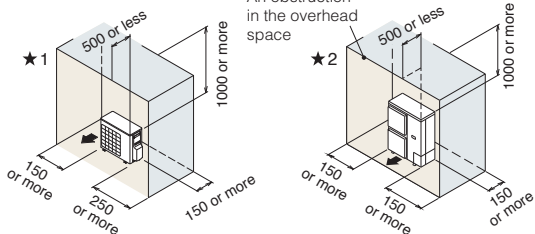
### 2) When there is an obstruction in the overhead space

##### 1. For single unit installation

When there is an obstruction on the inlet side

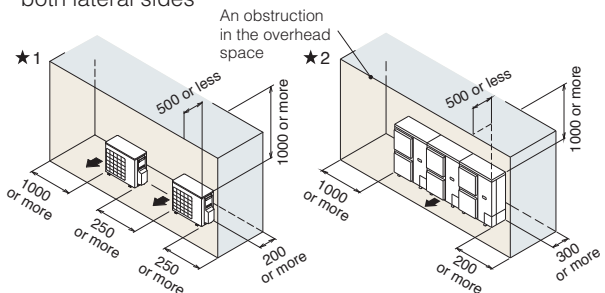


When there are obstructions on the inlet side and both lateral sides



##### 2. For series installation (more than two units)

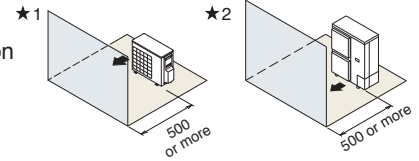
When there are obstructions on the inlet side and both lateral sides



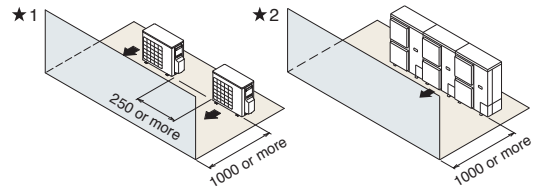
### 2 When there is an obstruction on the outlet side

#### 1) When the overhead space is open

##### 1. For single unit installation

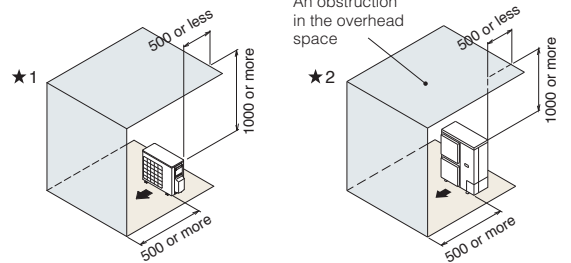


##### 2. For series installation (more than two units)

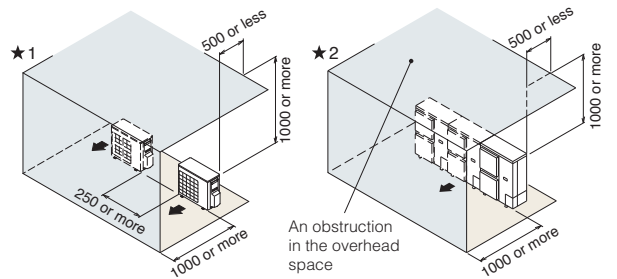


#### When there is an obstruction in the overhead space

##### 1. For single unit installation



##### 2. For series installation (more than two units)



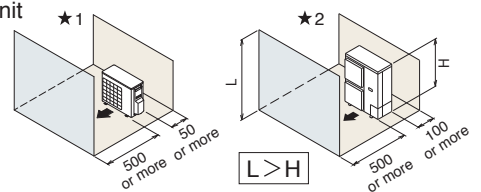
### 3 When there are obstructions on both the inlet and outlet sides

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

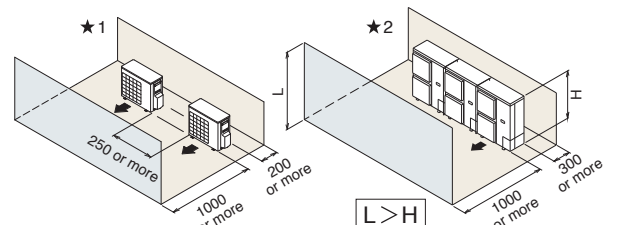
#### 1) When the overhead space is open

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

##### 1. For single unit installation



##### 2. For series installation (more than two units)



Warning



- Daikin Industries, Ltd.'s products are manufactured for export to numerous countries throughout the world. Daikin Industries, Ltd. does not have control over which products are exported to and used in a particular country. Prior to purchase, please therefore confirm with your local authorised importer, distributor and/or retailer whether this product conforms to the applicable standards, and is suitable for use, in the region where the product will be used. This statement does not purport to exclude, restrict or modify the application of any local legislation.
- Ask a qualified installer or contractor to install this product. Do not try to install the product 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.

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### 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.



JMI-0107

Organization:  
 DAIKIN INDUSTRIES, LTD.  
 AIR CONDITIONING MANUFACTURING DIVISION

Scope of Registration:  
 THE DESIGN/DEVELOPMENT AND MANUFACTURE OF  
 COMMERCIAL AIR CONDITIONING, HEATING, COOLING,  
 REFRIGERATING EQUIPMENT, COMMERCIAL HEATING  
 EQUIPMENT, RESIDENTIAL AIR CONDITIONING  
 EQUIPMENT, HEAT RECLAIM VENTILATION, AIR  
 CLEANING EQUIPMENT, MARINE TYPE CONTAINER  
 REFRIGERATION UNITS, COMPRESSORS AND VALVES.



JQA-1452

Organization:  
 DAIKIN INDUSTRIES  
 (THAILAND) LTD.

Scope of Registration:  
 THE DESIGN/DEVELOPMENT  
 AND MANUFACTURE OF AIR  
 CONDITIONERS AND THE  
 COMPONENTS INCLUDING  
 COMPRESSORS USED FOR THEM



EC99J2044

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 are certified under the ISO 14001  
 international standard for  
 environment management.

Dealer

**TOAN CAU Co., Ltd**

**CÔNG TY TNHH TM KỸ THUẬT LẠNH**

**TOÀN CẦU**

\* HỆ THỐNG LẠNH DÂN DỤNG & CÔNG NGHIỆP  
 \* THIẾT BỊ ĐIỆN CÔNG NGHIỆP

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