

- Warning 
- Ask a qualified installer or contractor to install this product. Do not try to install the product by yourself. Improper installation can result in water or refrigerant leakage, electrical shock, fire or explosion.
 - Use only those parts and accessories supplied or specified by Daikin. Ask a qualified installer or contractor to install those parts and accessories. Use of unauthorised parts and accessories or improper installation of parts and accessories can result in water or refrigerant leakage, electrical shock, fire or explosion.
 - Read the user's manual carefully before using this product. The user's manual provides important safety instructions and warnings. Be sure to follow these instructions and warnings.
- If you have any enquiries, please contact your local importer, distributor and/or retailer.

Cautions on product corrosion

1. Air conditioners should not be installed in areas where corrosive gases, such as an acidic or alkaline gas, are produced.
2. When installing outdoor units in coastal areas, be sure to contact your local distributor and avoid direct exposure of the units to sea breezes.

Daikin Airconditioning (Hong Kong) Ltd.

17-18F, Futura Plaza, 111-113 How Ming Street
Kwun Tong, Kowloon, Hong Kong.
Tel : (852) 2570 2786
Fax: (852) 2807 2484
www.daikin.com.hk



SkyAir

AIR CONDITIONING SYSTEM
COOLING ONLY [50Hz]

INVERTER



Designed for use in shops, restaurants and small offices, Daikin SkyAir split systems provides a comfortable environment for building occupants all year round and offers building owners substantial operating efficiencies to help minimise operating costs.



Ceiling Mounted Cassette Type

〈Round Flow〉 with Streamer
〈Round Flow〉

Building on Daikin's signature Round Flow design to deliver greater comfort and energy efficiency.



Ceiling Suspended Type

Ceiling suspended indoor units cool the largest spaces without compromising wall space.



Duct Connection Middle Static Pressure Type

Compact form factor with powerful features for ultimate design flexibility.



Wall Mounted Type

Sophisticated design delivers wide angle airflow and long throws for greater comfort.



Designed for air quality confidence in places where people gather



Daikin's SkyAir series delivers superior comfort and energy performance for both occupants and building owners.

Contents	
Lineup	P.5-6
Features of Daikin SkyAir	P.7-19
Energy Saving	P.7
Technology to Improve Energy Efficiency	P.8
Quick Cooling	P.9
Durability	P.10
Smart Airflow Control	P.11
Convenient Functions	P.12
Design Flexibility	P.13
Reuse of Existing Piping	P.14
UV Streamer Air Purifier Unit	P.15-16
Streamer Filter Clean Function	P.17-18
Benefits of an Inverter	P.19
Indoor Unit	P.21-38
Ceiling Mounted Cassette Type <Round Flow> with Streamer <Round Flow>	P.21-32
Ceiling Suspended Type	P.33-34
Duct Connection Middle Static Pressure Type	P.35-36
Wall Mounted Type	P.37-38
Outdoor Unit	P.39-40
Remote Controller	P.41-44
Stylish Remote Controller	P.41
Navigation Remote Controller	P.42
Wireless Remote controller	P.43
System variation to control multiple indoor units	P.44
Functions	P.45-48
Functions Overview	P.45-46
Description of Functions	P.47-48
Specifications	P.49-52
Ceiling Mounted Cassette Type	P.49
Ceiling Suspended Type	P.50
Duct Connection Middle Static Pressure Type	P.51
Wall Mounted Type	P.52
Options	P.53-56
Indoor unit	P.53-56
Outdoor unit	P.56
Dimensions	P.57-68

CEILING MOUNTED CASSETTE TYPE

<Round Flow>
with Streamer



	50	60	71
Indoor unit	FCTF50BV1	FCTF60BV1	FCTF71BV1
Outdoor unit	RZF50DV1	RZF60DV1	RZF71DV1

CEILING MOUNTED CASSETTE TYPE

<Round Flow>



	50	60	71
Indoor unit	FCF50DV1	FCF60DV1	FCF71DV1
Outdoor unit	RZF50DV1	RZF60DV1	RZF71DV1

CEILING SUSPENDED TYPE

	50	60	71
Indoor unit	FHA50DV1	FHA60DV1	FHA71DV1
Outdoor unit	RZF50DV1	RZF60DV1	RZF71DV1

DUCT CONNECTION MIDDLE STATIC PRESSURE TYPE

	50	60	71
Indoor unit	FBA50CV1	FBA60CV1	FBA71CV1
Outdoor unit	RZF50DV1	RZF60DV1	RZF71DV1

OUTDOOR UNIT

	50	60	71
Outdoor unit	RZF50DV1	RZF60DV1	RZF71DV1
Power supply	1 phase, 220-240V, 50Hz	1 phase, 220-240V, 50Hz	1 phase, 220-240V, 50Hz

WALL MOUNTED TYPE

	50	60	76
Indoor unit			FAA76BVMAN
Outdoor unit			RZF76CVMN RZF76CYMN

OUTDOOR UNIT

	50	60	76
Outdoor unit			RZF76CVMN RZF76CYMN
Power supply			1 phase, 220-240V, 50Hz 3 phase, 380-415V, 50Hz

	100	125	140	
				Page 21
	FCTF100BV1	FCTF125BV1	FCTF140BV1	
	RZF100DY1	RZF125DY1	RZF140DY1	
				Page 21
	FCF100DV1	FCF125DV1	FCF140DV1	
	RZF100DY1	RZF125DY1	RZF140DY1	
				Page 33
	FHA100DV1	FHA125DV1	FHA140DV1	
	RZF100DY1	RZF125DY1	RZF140DY1	
				Page 35
	FBA100CV1	FBA125CV1	FBA140CV1	
	RZF100DY1	RZF125DY1	RZF140DY1	
				Page 39
	RZF100DY1	RZF125DY1	RZF140DY1	
	3 phase, 380-415V, 50Hz	3 phase, 380-415V, 50Hz	3 phase, 380-415V, 50Hz	

	100	125	140	
				Page 37
	FAA100BVMAN			
	RZF100CYMN			
				Page 39
	RZF100CYMN			
	3 phase, 380-415V, 50Hz			

Features of Daikin SkyAir

SkyAir

R-32

Cooling only

Technology to Improve Energy Efficiency

Outdoor unit

The 125/140 class outdoor unit uses a larger and more efficient compressor than the current model.

The micro channel heat exchanger is getting wider and more efficient.

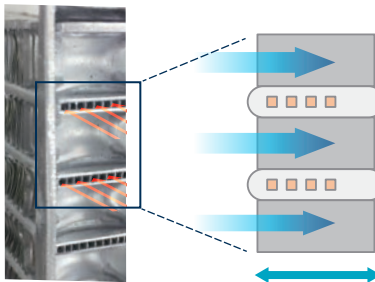


Compressor



current RZR125/140MYM NEW RZF125/140DY1

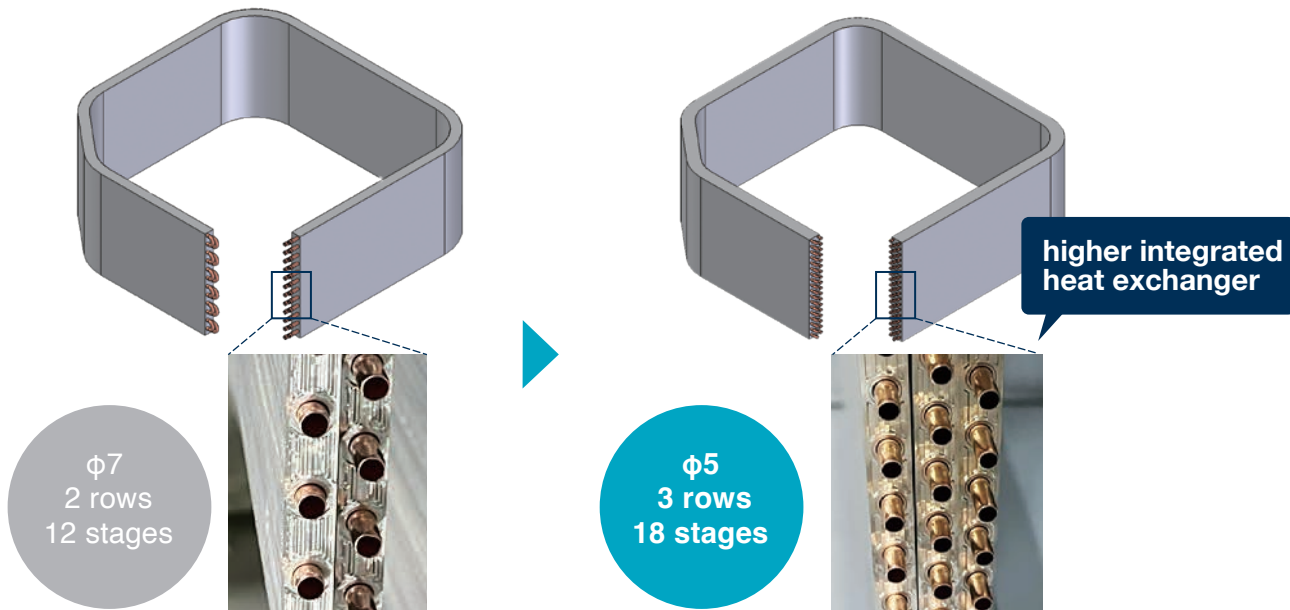
Micro channel heat exchanger



current RZR125/140MYM Width 13.85mm NEW RZF125/140DY1 Width 19.2 mm

Indoor unit (Cassette type)

The cassette type 125/140 class uses a higher integrated heat exchanger to improve efficiency.



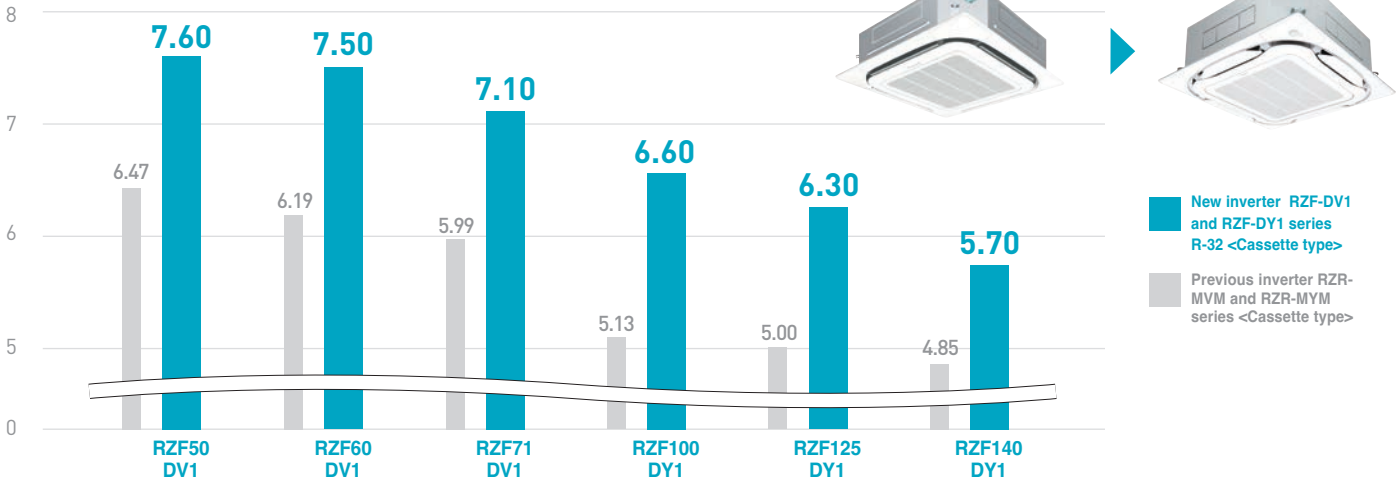
current FCQ125/140KAVEA

NEW FCTF125/140BV1 FCF125/140DV1

Energy Saving

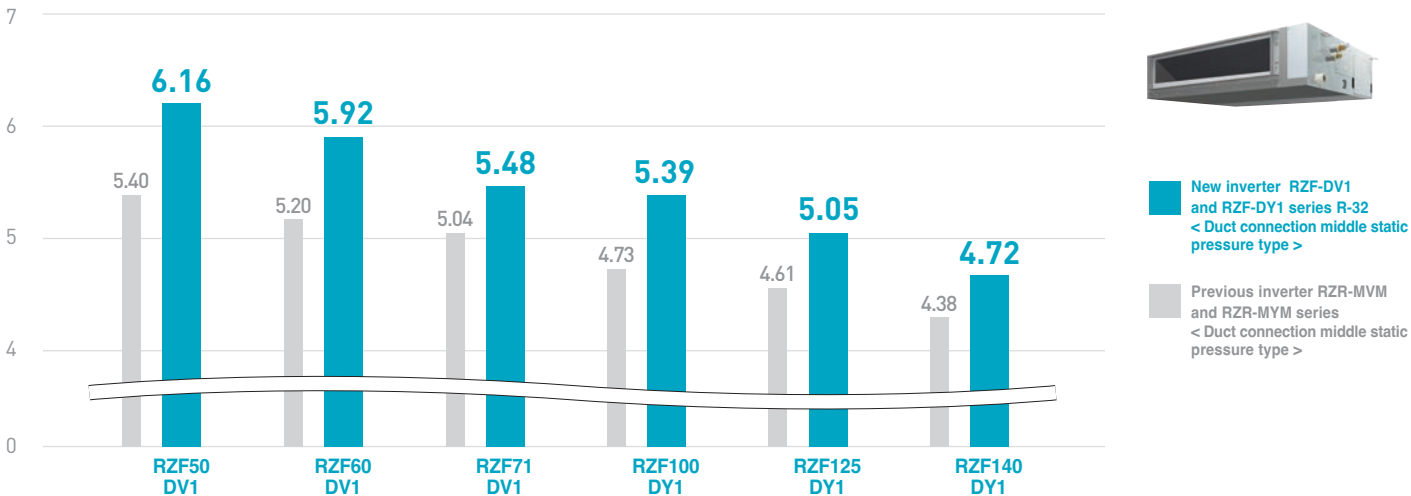
Daikin's new inverter has achieved much higher CSPF than current models.

● CSPF values by capacity for cassette models



*CSPF (cooling seasonal performance factor) is a new international energy-efficiency criterion calculated by methods stipulated in ISO 16358-1.

● CSPF values by capacity for duct connection middle static pressure type



*CSPF (cooling seasonal performance factor) is a new international energy-efficiency criterion calculated by methods stipulated in ISO 16358-1.

What is CSPF?

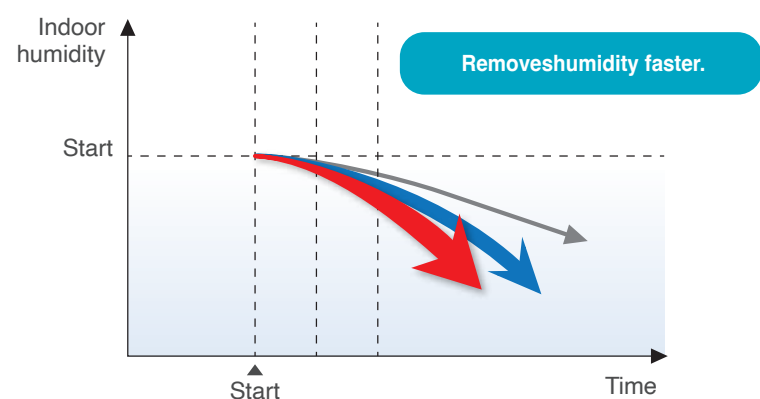
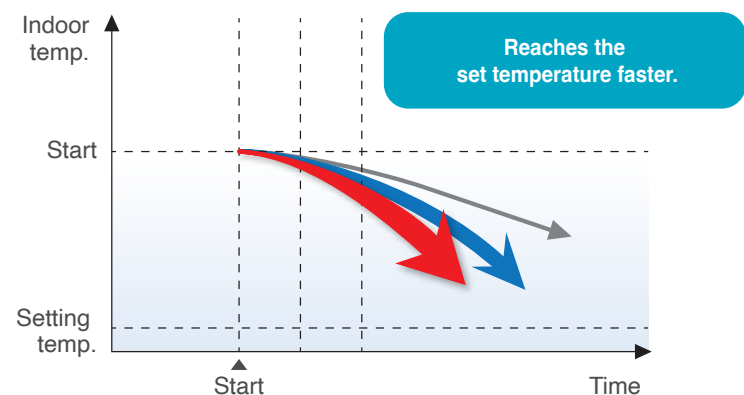
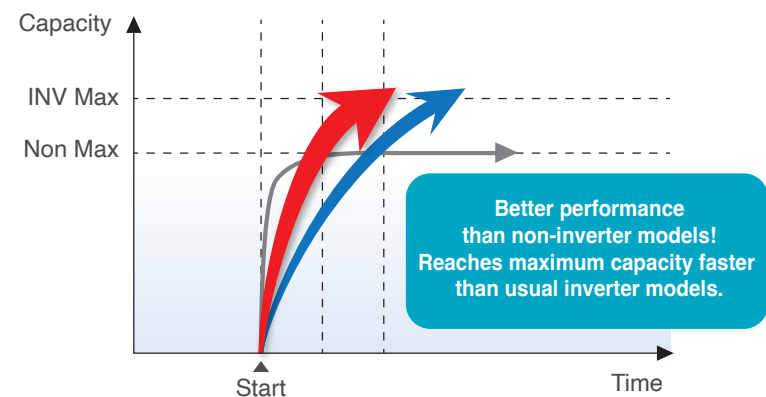
CSPF is the value for the annual total cooling load divided by the annual total power consumption at outdoor air conditions specified by ISO standard.

Quick Cooling

Faster cooling and dehumidification

New inverter control technology brings quick comfort.

- Inverter (RZF-D series)
- Conventional inverter (RZR-L series)
- Non inverter



Quick start function

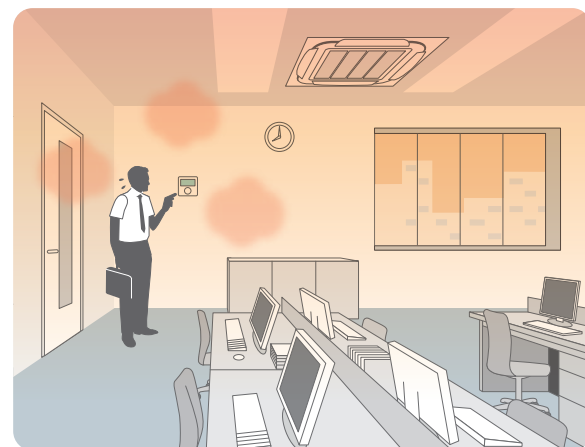
Quickly make space comfortable before the arrival of office workers or shop customers.

The airflow rate of indoor unit is automatically controlled, increasing the capacity of the outdoor unit and quickly bringing the room to a comfortable temperature.

This function will operate for a maximum of 30 minutes until the air conditioner automatically returns to normal operation.



- BRC1E63 wired remote controller is used for 'Quick start'.



Durability

Micro channel heat exchanger

Micro channel technology utilises superior heat transfer benefits of aluminium to create a more efficient air conditioner.

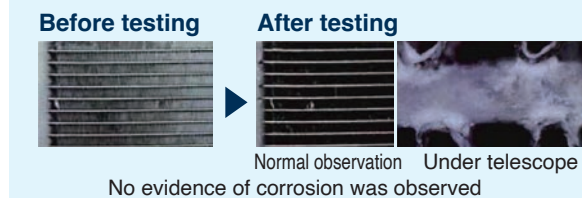
With a new resistance corrosion aluminium alloy, the Daikin micro channel heat exchanger becomes highly durable.

A salt spray test has been conducted to demonstrate the corrosion-resistant capability of our products in corrosive environments for a certain period of time.

After undergoing an intensive test, the Daikin micro channel heat exchanger is able to maintain its shape without corrosion, which strongly confirms its durability in a highly corrosive environment.

Test of durability

- Testing organization MTEC Thailand
- Testing standard ASTM B117
- Result



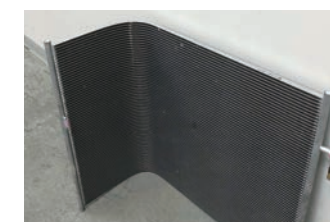
NEW Enhanced protection against dissimilar metal corrosion

In many Asian regions, corrosive substances such as iron, chlorine, nitrogen oxides, and sulfur oxides are known to accelerate refrigerant leakage due to dissimilar metal corrosion.

To address this, the new RZF-D models in the Premium series apply a **zinc spray coating** to the multi-hole tubes of the MCHX (Micro Channel Heat Exchanger).

This treatment significantly improves resistance to corrosion between dissimilar metals, enhancing durability in environments with high corrosion risk.

The design is based on the proven technology used in existing Premium (RZF) models, ensuring reliable performance even under harsh outdoor conditions.



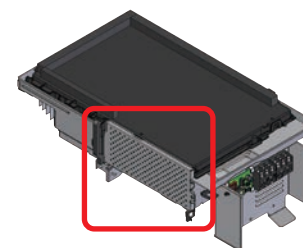
NEW Enhanced PCB protection against gecko entering

In many Asian regions, small geckos and foreign objects are a major cause of outdoor unit PCB failures. Daikin has reinforced its PCB design with preventive measures to ensure long-lasting performance and reliability.



● RZF50-71DV1 (Small casing)

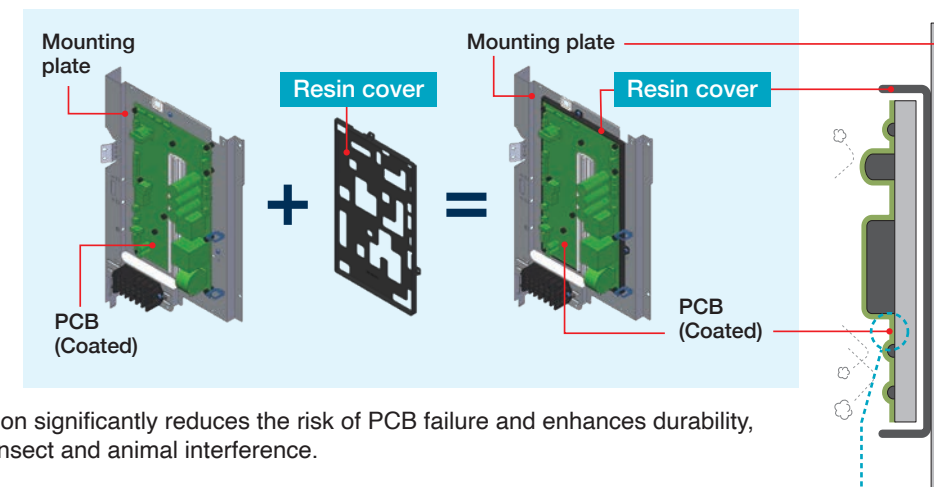
The control box is fully enclosed with metal sheet covers, preventing small animals and debris from entering.



● RZF100-140DY1 (Large casing)

A resin cover is installed from the side to the back of the PCB.

The gap between the PCB and the resin cover is minimized to just 1 mm, effectively deterring geckos without compromising heat dissipation.



This precision-engineered solution significantly reduces the risk of PCB failure and enhances durability, even in environments prone to insect and animal interference.

Automatic protection against low voltage

In AM and PM peak electricity consumption periods, supply may fluctuate. Built-in low-voltage protection will automatically cut operations. When normal voltage is restored, operation will resume as before.

Coated printed circuit boards (outdoor unit)

Coated circuit boards prevent problems caused by humidity and airborne dust. It also protects against salt contained in sea breezes. Both sides of the PCB in outdoor units are coated.



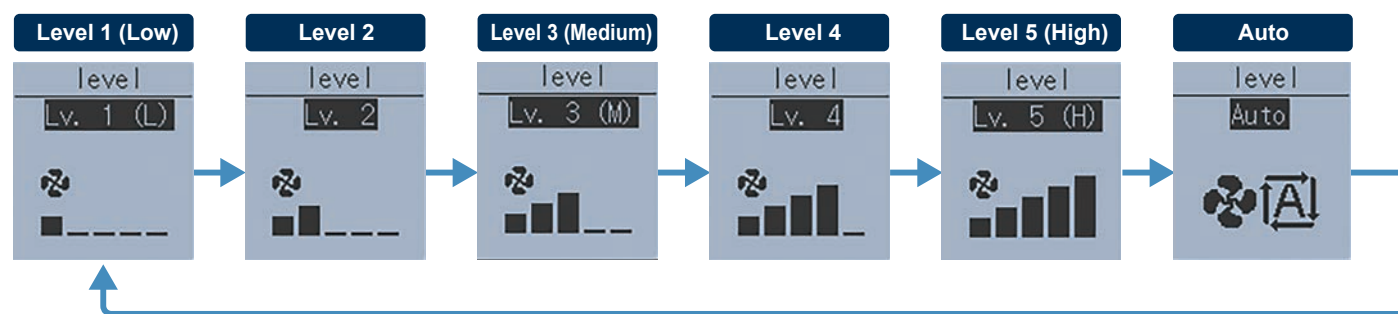
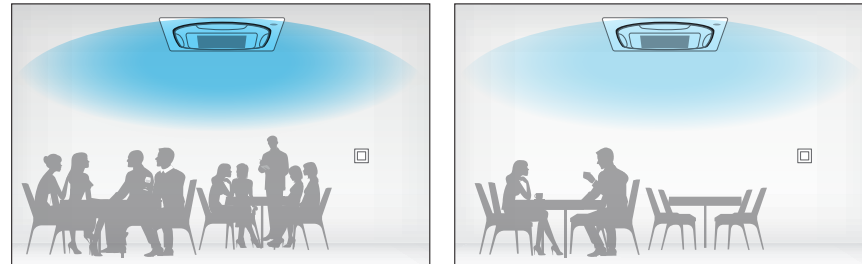
Smart Airflow Control

Indoor units can provide 5-step and 3-step fine control of air volume

5-step: FCTF, FCF, and FHA series
3-step: FBA and FAA series

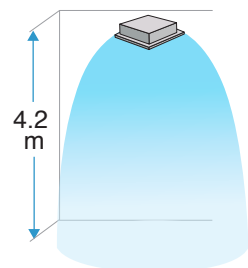
Comfort ensured by 'Auto' airflow rate that matches load level

Convenient energy-efficiency for stores with peak and quiet periods.



Also convenient for high ceilings and spaces with long blow distances

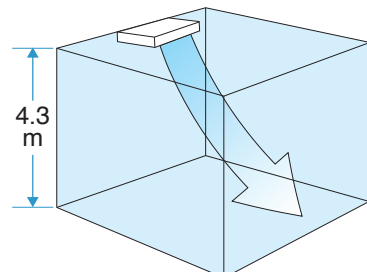
Cassette type <Round Flow>:
maximum 4.2 m*



See page 29

*Maximum 4.2 m for
FCTF100-140, FCF100-140
Maximum 3.5 m for
FCTF50-71, FCF50-71

Ceiling suspended type:
maximum 4.3 m*



See page 34

*Maximum 4.3 m for FHA100-140
Maximum 3.5 m for FHA50-71



*Field setting with remote controller

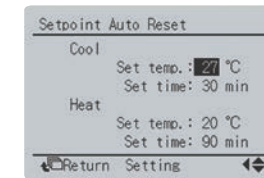
Convenient Functions

Navigation remote controller BRC1E63 includes various convenient functions

Automatic return to temperature preset by owner.

● Setpoint auto reset

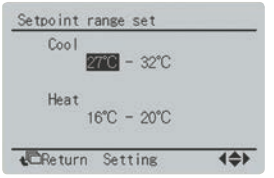
- Even if the set temperature is changed, the new set temperature returns to the previous preset value after a preset duration of time.
- Period selectable from 30, 60, 90, or 120 minutes.



Owner can preset upper and lower temperatures.

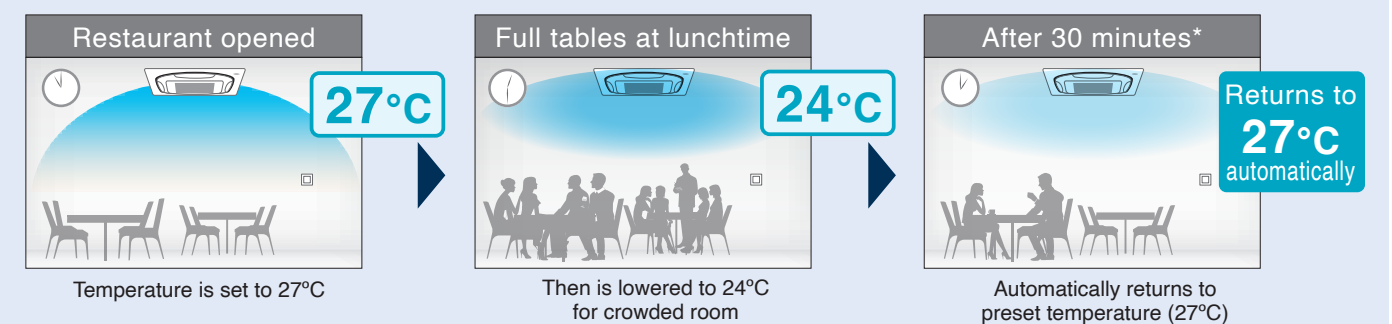
● Setpoint range set

- Saves energy by limiting the min. and max. set temperature.
- Avoids excessive heating or cooling.
- This function is convenient if the remote controller is installed where anyone can change the settings.
- BRC1H63W(K) also have this function.



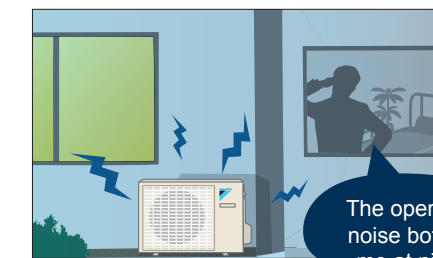
Restaurant example (Setpoint auto reset)

*Preset-return time can be set at 30, 60, 90, or 120 min



Night quiet operation mode

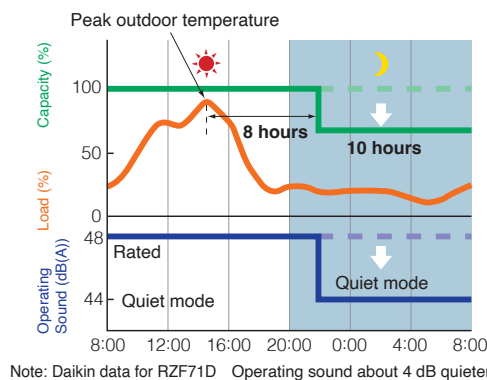
Consideration is given for people living nearby.
Outdoor unit operating sound can be reduced.



1. Field setting

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.

*Field setting with remote controller for selecting the time pattern at night.



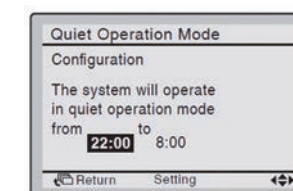
★ Reducing noise will reduce capacity slightly.

		Sound pressure level ¹ (dB(A))	
		Rated	Night Quiet Mode
RZF	50-71 D	48	44
	100 D	52	45
	125 D	53	45
	140 D	54	45

Note :
¹Anechoic chamber conversion value, measured according to JIS parameters and criteria.
During operation these values are somewhat higher owing to ambient conditions.

2. Navigation remote controller: BRC1E63 menu

The start and finish times of the quiet operation are selectable.

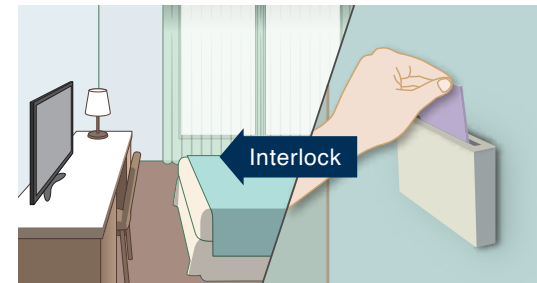


Design Flexibility

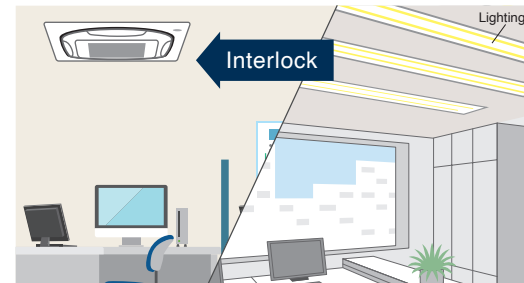
External signal forced OFF and ON/OFF operation (with T1 / T2 terminals)

As an energy saving feature, the air conditioner can be interlocked with the key card system. *Field setting with remote controller
Using a 3rd-party building management system, air conditioning and lighting can be interlocked.

•Hotel key card interlock



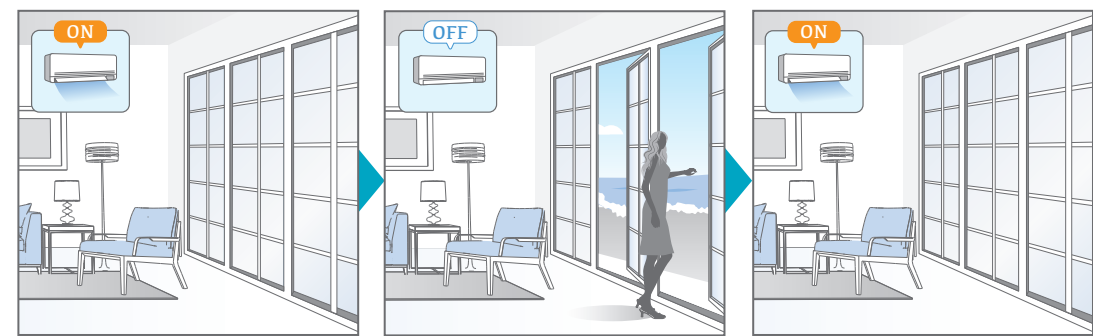
•Lighting interlock



Key card and window / door interlock (with optional adaptor)

This function will turn the air conditioner OFF when the window/door is opened and will automatically turn ON when the window/door is closed to save energy.

•Window contact interlock



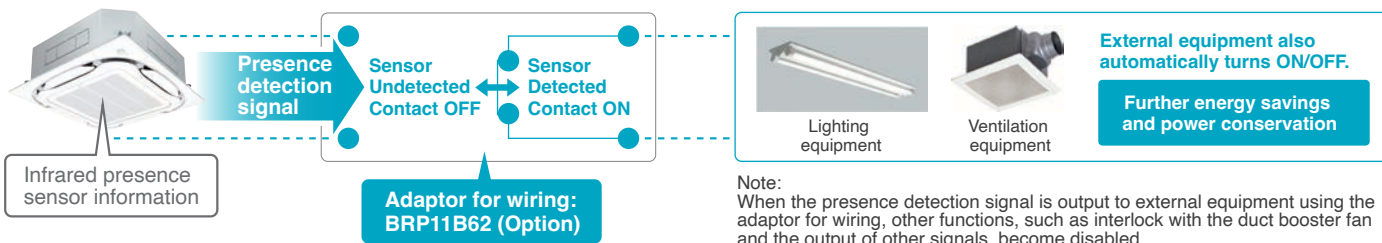
External Equipment Interlock (FCTF and FCF series only)

Power conservation is possible through interlock* of external equipment, such as lighting, with the infrared presence sensor.

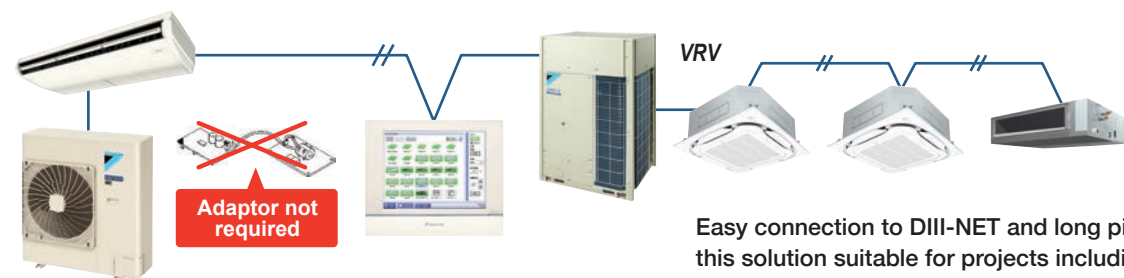
Human presence is detected by the built-in infrared presence sensor in the sensing panel, and the presence detection signal can be output and interlocked with external equipment such as ventilation and lighting equipment.

*Optional adaptor for wiring: BRP11B62 is necessary.

Sensor interlock mode
The presence detection signal of the infrared presence sensor can turn only external equipment ON/OFF without interlocking with air conditioner operation/stop (ON/OFF).



Indoor units comply with DIII-Net standards



Reuse of Existing Piping

Benefit 1

Simplified installation reduces replacement time and cost

When considering the replacement of your air conditioning system, do the following concern you?

- The length of time your business will be interrupted
- Effect on your existing tenants during the replacement work
- High costs and long work period due to scaffolding needed for pipe replacement



These problems are solved by Daikin!

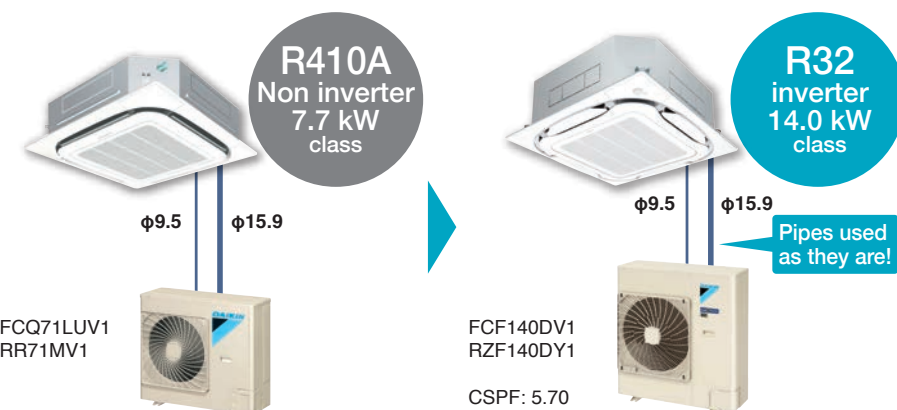
Where feasible, we reduce work costs and time by reusing existing pipes*.

*Strict conditions must be adhered to, please refer to the installation manual and Engineering Data Book for further details including pipe sizes (if pipes are to be re-used)

Benefit 2

You can increase cooling capacity and achieve higher energy efficiency

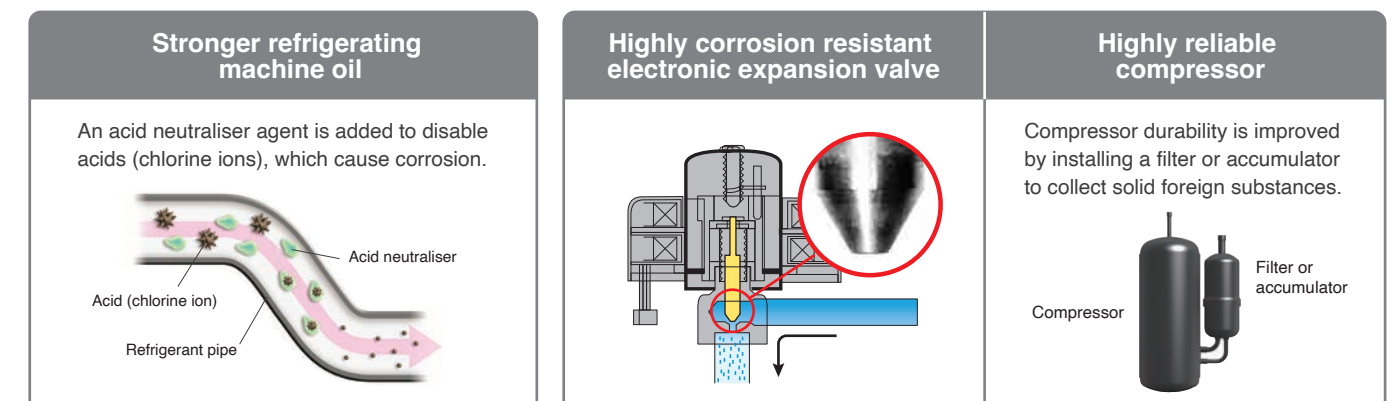
Upgrade to an air conditioner with the latest technology for greater comfort and energy efficiency.



As a result, the greater capacity units ensure better performance to cope with the increasing amount of heat generated by office equipment and occupants.

Technology

Advanced technology, including the use of corrosion resistant electronic expansion valves, acid neutralisers and improved compressor reliability, enables the re-use of existing piping* without the need of pipe flushing for a simplified replacement process.



*Strict conditions must be adhered to, please refer to the installation manual and Engineering Data Book for further details including pipe sizes (if pipes are to be re-used)

UV Streamer Air Purifier Unit (Option) FCF series

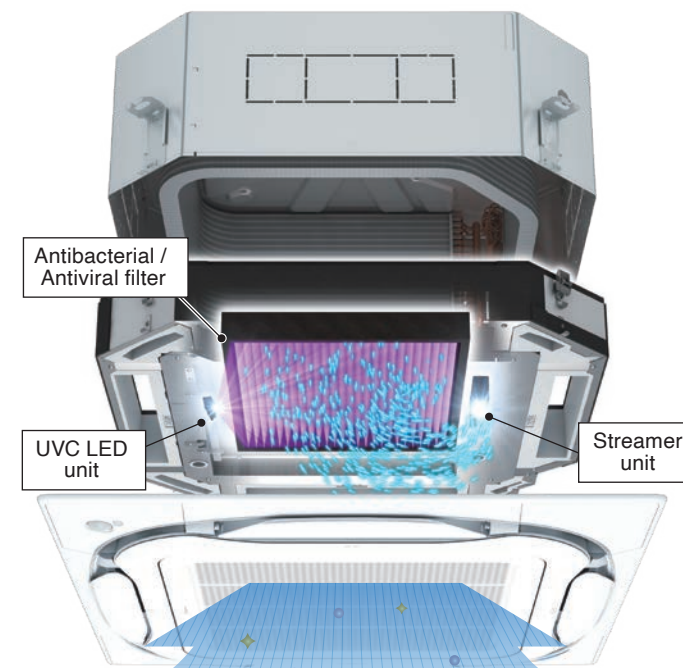
Applicable when using the Standard panel (Fresh white), Standard panel with Sensing (Fresh white), and Auto grille panel.*7,8,9



Easily connects to air conditioner to purify and sterilize air.

The combination of three DAIKIN technologies

Removes bacteria *1 and suppresses viruses *2 captured in the filter.



- Large airflow rate of the Round Flow Cassette delivers clean air to every corner of the room.



- Even during intermediate periods, air can be cleaned by fan operation.
- Can be retrofitted to existing installations.

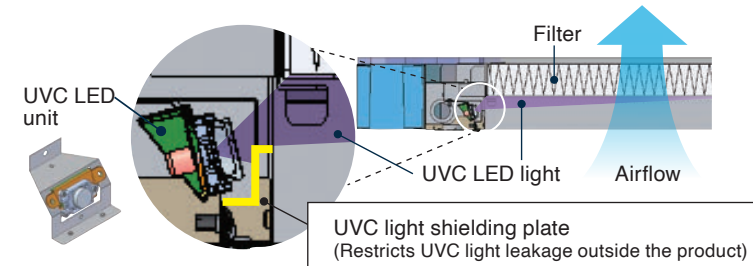


Safe Design

The unit features a safe design that prevents leakage of deep ultraviolet rays outside the unit. <This product complies with IEC60335-2-40.>

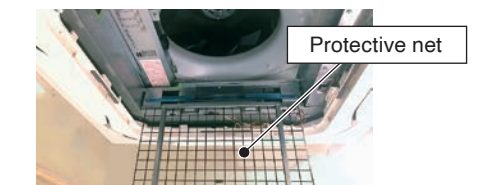
1. Unique shape that blocks light

An UVC light shielding plate is installed under the UVC LED unit.

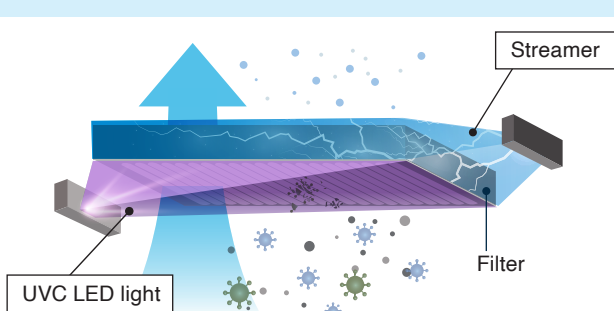


2. Stop irradiation with safety switch

To keep hands out of the UV irradiation area, a protective net is used. When the protective net is removed, a safety switch stops UVC irradiation.

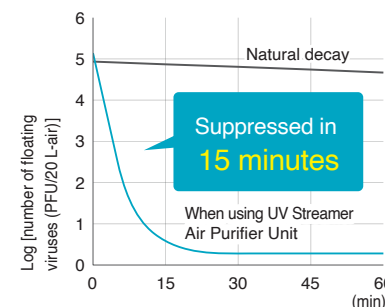


Removes bacteria*1 and suppresses viruses*2 captured in the filter by more than 99% in 30 minutes.*5



Suppresses floating viruses*3 and floating bacteria*4 by more than 99% in 15 minutes.*6

Changes in the number of airborne viruses in the test space



Note:

	*1	*2	*3	*4
Testing organization	Japan Food Research Laboratories	Shokukanken Inc.	Kitasato Research Center for Environmental Science	Japan Food Research Laboratories
Test number	21051979001-0201	217500N	2021_0375	21051979001-0101
Test method	A test piece was attached and inoculated with bacterial liquid on the upstream side of the filter installed into the unit. Operation was performed in a closed test space of 25m ³ , and the number of live bacteria was counted after 30 minutes.	A test piece was attached and inoculated with virus liquid on the upstream side of the filter installed into the unit. Operation was performed in a closed test space of 25m ³ , and virus infectivity titer was measured after 30 minutes.	The suppression performance of airborne viruses was evaluated with reference to the Japan Electrical Manufacturers' Association Standard (JEM1467) in a closed test space of 25m ³ .	Performance evaluation test was conducted by voluntary standard of Japan Electrical Manufacturers' Association (HD-133) in a closed test space of 25m ³ .
Test object	One bacterium type	One virus type	One virus type	One floating bacterium type
Test result	Reduced by more than 99% after 30 minutes.	Reduced by more than 99% after 30 minutes.	Reduced by more than 99% after 15 minutes compared to natural decay.	Reduced by more than 99% after 15 minutes.
Test unit	UV Streamer Air Purifier Unit BAEF55D160 (Japanese model), a model equivalent to BAEF125AW1 Indoor unit FHCP160EM (Japanese model), a model equivalent to FCA140C / FXF(S)Q140A. Airflow rate: High Decoration panel BYCP160EAF (Japanese model), a model equivalent to BYCQ125EAF			

*5 The effect was in a closed test space of 25 m³ after 30 minutes of operation and was not a test result in an actual operation space.

*6 The effect was in a closed test space of 25 m³ after 15 minutes of operation and was not a test result in an actual operation space.

Technologies

Deep ultraviolet (UVC) LED

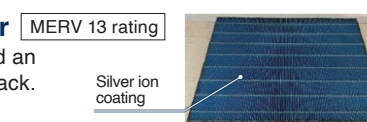
Ultraviolet rays are invisible light with wavelengths of 10 to 400 nm (nanometers) and short wavelengths of 100 to 280 nm that are called "deep ultraviolet rays (UVC)".

In particular, we have adopted the "deep ultraviolet (UVC) LED" for air purifiers, which irradiates deep ultraviolet rays with wavelengths of around 265 nm that have a high sterilizing effect.



Antibacterial / Antiviral filter

Coarse dust filter on the surface and an Antibacterial / Antiviral filter in the back.



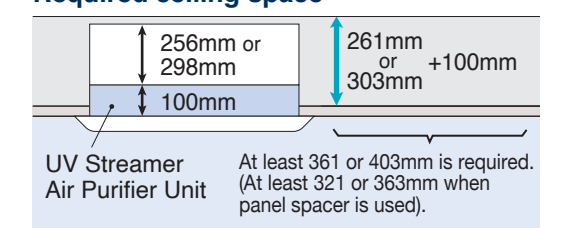
Streamer technology

See page 22

Streamer, a type of plasma discharge, decomposes hazardous chemical substances. The decomposition power is comparable to thermal energy of about 100,000°C.*

*Comparison of oxidation decomposition. This does not mean temperature will become high.

Required ceiling space



*7 This option cannot apply with Designer panel, Standard panel (Black), Standard panel with Sensing (Black), Sealing material of air discharge outlet, Insulation kit for high humidity, and kit / filters that require a chamber (Fresh air intake kit Chamber type, High-efficiency filter unit, Ultra long-life filter unit, Branch duct chamber).

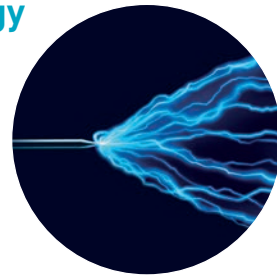
*8 This option cannot apply when 2 and 3-way flow by using Sealing material of air discharge outlet.

*9 This option is not applicable to the high ceiling application.

Streamer Filter Clean Function

Introducing Streamer technology to SkyAir Indoor units

Daikin Streamer technology enhances maximum efficiency in cleaning, which uses powerful decomposition properties to decompose substances captured by filter for better air quality.



Streamer filter clean unit irradiates Streamer when the fan and air conditioning operation are stopped. Streamer fumigates the cabin and sterilizes the filter.



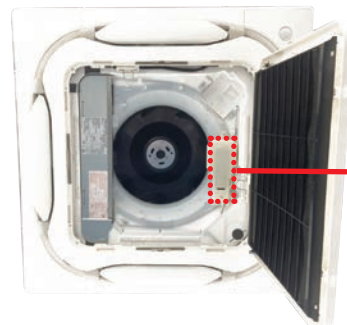
Remarks:
The Streamer function operates only when the fan and air conditioning operation are stopped.
The maximum operation time of Streamer is 180 minutes per day.



Streamer filter clean unit is built-in inside the indoor unit



NEW
FCTF-B series*1,2
Ceiling Mounted Cassette Type <Round Flow> with Streamer



Streamer filter clean unit is option unit



NEW
FHA-D series
Ceiling Suspended Type



option
Streamer Filter Clean Unit BAPWS55A61
See page 55

Only the remote controllers BRC1H63W(K) can be connected for ON / OFF operation of the Streamer.



•When a signal is received from the indoor unit that the Streamer function is ON, the Streamer icon is displayed on the Home screen.



* Field setting is required.(default: OFF)

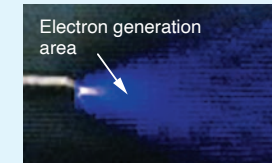
*1. Circulation airflow is not available with this option.

*2. This series cannot apply with Sealing material of air discharge outlet, Branch duct chamber, UV Streamer air purifier unit, and Remote controllers other than BRC1H63W(K).

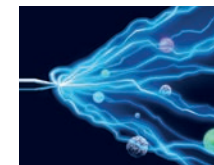
Streamer Technology

Streamer, a type of plasma discharge, decomposes hazardous chemical substances.
The decomposition power is comparable to thermal energy of about 100,000°C.*1

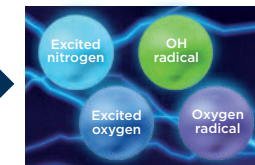
Note: *1. Comparison of oxidation decomposition. This does not mean temperature will become high.



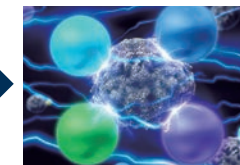
Mechanism of decomposition by Streamer



Streamer emits high-speed electrons.



The electrons collide and combine with nitrogen and oxygen in the air to form four kinds of decomposing elements with decomposition power.

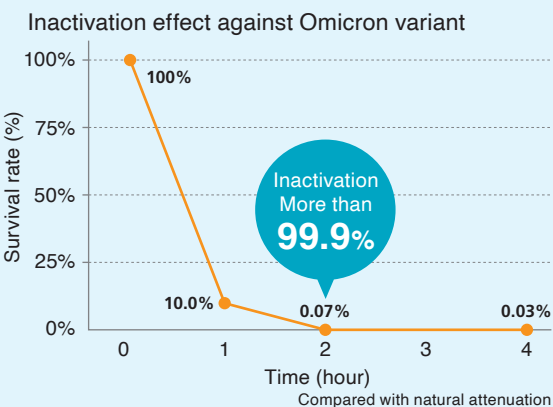


The decomposing elements provide decomposition power.

99.93% Inactivation of Omicron variant in 2 hours

Experimental Results

Irradiation with Streamer discharge for two hours inactivated 99.93%, and for four hours inactivated 99.97% of the Omicron variant of Coronavirus (SARS-CoV-2), when compared to without Streamer discharge.



Test Method

hCoV-19/Japan/ TY38-873/2021 strain (Omicron variant) was used. Two acrylic boxes of about 31L were placed in a safety cabinet in the BSL-3 facility, and Streamer discharge device was installed in one of the acrylic boxes. Seesaw shakers with a 6-well plate were placed in both boxes, and 0.5 mL of virus solution was placed in each well of the plate. Streamer irradiation was performed on one 6-well plate while stirring with a seesaw shaker. After 1, 2, and 4 hours, the virus solution was collected, and the virus titer was measured by the TCID50 method using Vero E6/TMPRSS2 cells.

Test Organization

Professor Tatsuo Shioda, Department of Virus Infections, Research Institute for Microbial Diseases, Osaka University
*This result was obtained by using a Streamer discharge device for testing in lab conditions.
The effect of products equipped with Streamer technology or results in actual use environments may differ.

Scan here for more
DAIKIN Streamer Research Institute



Streamer decomposes mould and mites (feces and carcasses) and suppresses the causes of allergies.

Demonstration of mould

Picture of mould



Test Method

"Moulds" were placed on the electrodes of a Streamer discharge unit where they were exposed to Streamer discharge for 15 minutes and photographed with an electron microscope.

Test Organization

Demonstration test was performed at Wakayama Medical University.

Why Daikin Streamer?

Recognized as clean technology by public bodies

Winner of the 2005 Progress Award, Institute of Electrostatics Japan

Awarded for the development of a domestic air purifier which uses DC Streamer discharge.

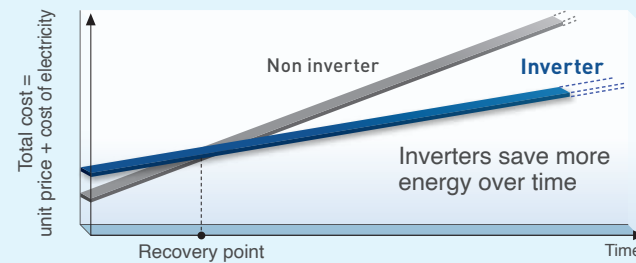
105 Patents Acquired

Patents acquired relating to Streamer technology

Benefits of an Inverter

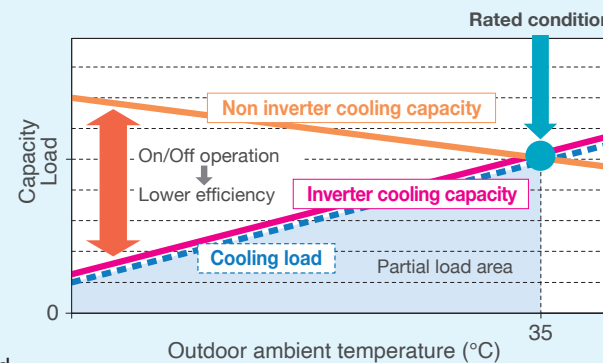
Why is inverter technology economical?

Inverter system consumes less electricity, and soon recovers the difference in initial cost. This results in lower total cost.



Inverter air conditioner can adjust its cooling capacity according to the cooling load. This results in less power consumption.

In response to fluctuating cooling load, Non inverter air conditioners repeatedly perform ON (full-power)/OFF (zero-power) operation. Inverter air conditioners, however, operate at optimal cooling capacity according to the cooling load. Since inverter air conditioners provide required minimum cooling capacity with minimum electrical power, total power consumption can be reduced during cooling period.



Inverters operate without repeated ON/OFF operation.

Inverter Highway driving



Continuous driving without stopping and starting is more fuel efficient.

Non inverter City driving

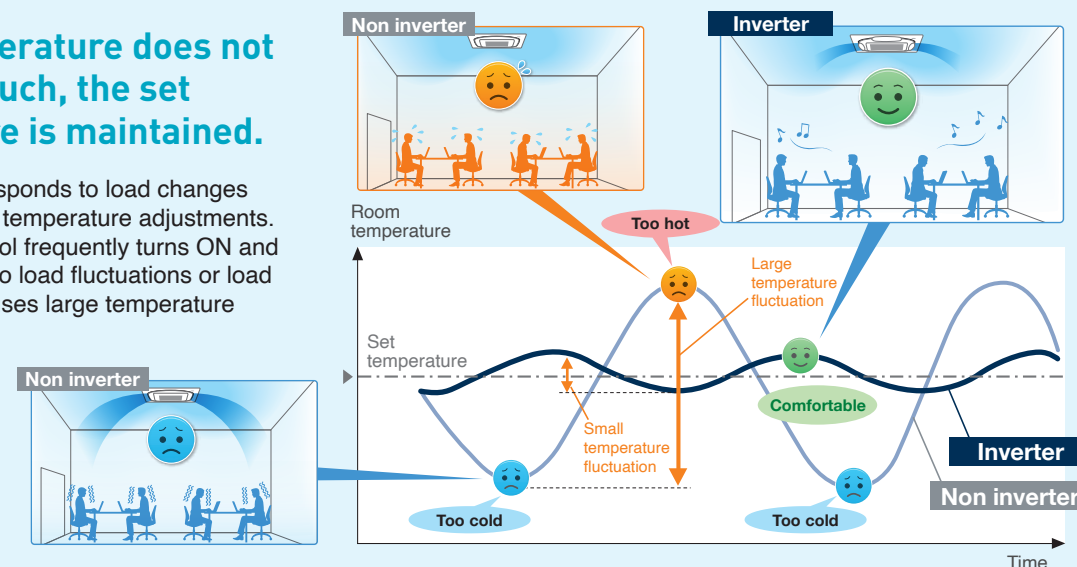


Constantly stopping and starting consumes energy and is less fuel efficient.

Why is inverter technology more comfortable?

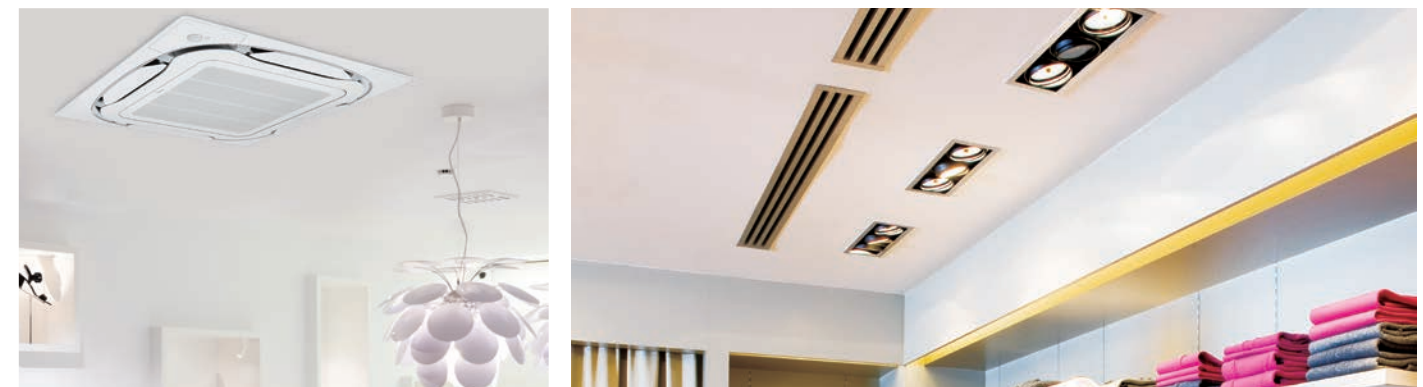
When temperature does not fluctuate much, the set temperature is maintained.

Inverter control responds to load changes and causes minor temperature adjustments. Non-inverter control frequently turns ON and OFF in response to load fluctuations or load mismatch and causes large temperature swings.



Detail of Each Product Specification

CEILING MOUNTED CASSETTE TYPE 〈Round Flow〉with Streamer 〈Round Flow〉	FCTF-B series (with Streamer) FCF-D series		Page 21-32
CEILING SUSPENDED TYPE	FHA-D series		Page 33-34
DUCT CONNECTION MIDDLE STATIC PRESSURE TYPE	FBA-C series		Page 35-36
WALL MOUNTED TYPE	FAA-B series		Page 37-38
OUTDOOR UNIT	RZF-D/C series		Page 39-40
REMOTE CONTROLLER			Page 41-44



CEILING MOUNTED CASSETTE TYPE

<Round Flow> with Streamer
<Round Flow>

Cassette air conditioner with 360° uniform airflow sets the standard



*Shown above is FCTF / FCF50-71.

NEW FCTF50/60/71/100/125/140BV1 (with Streamer)

NEW FCF50/60/71/100/125/140DV1



Option Accessory required for indoor unit.

Wired Remote Controller *1, 2

• Stylish Remote Controller (Wired)



BRC1H63W (White)



BRC1H63K (Black)

• Navigation Remote Controller (Wired)



BRC1E63

Note: ¹ Remote controller cable is not included and must be obtained locally.
² FCTF series can be connected only to BRC1H63W(K).

Wireless Remote Controller *3

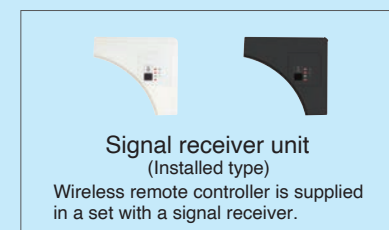
• Wireless Remote Controller



Cooling only

BRC7M635F (Fresh white)

BRC7M635K (Black)



Note: ³ A signal receiver must be added to the indoor unit.

Panel Variations

Standard panel with Sensing (Fresh white)



Standard panel (Fresh white)



Designer panel (Fresh white)



Standard panel with Sensing (Black)



Standard panel (Black)



Auto grille panel (Fresh white)

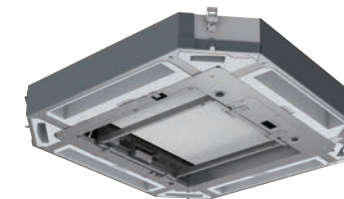


Specification	Option
P.49	P.53-54

P.15-16

FCF series

UV Streamer Air Purifier Unit (Option)



UVC 265nm



Antibacterial / Antiviral filter

MERV 13 rating

Promotion video at Daikin official YouTube site.



P.17-18

FCTF only

Streamer Filter Clean Function

Irradiates Streamer when the fan and air conditioning operation are stopped. Streamer fumigates the cabin and sterilizes the filter.



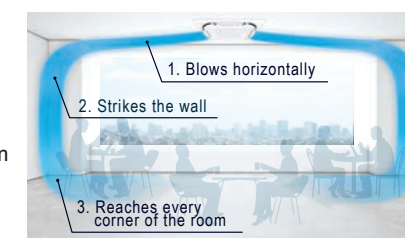
P.23-24

FCF series

Circulation Airflow

Cools the entire room to deliver comfort that never feels cold.

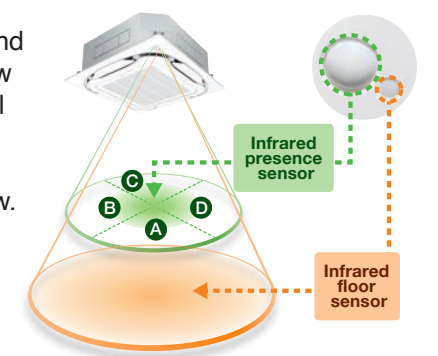
The illustration shows typical airflow. Effectiveness may differ according to room conditions, room size, and distance to walls.



P.26-28

Sensing Technology

Dual sensors and individual airflow direction control automatically provide optimal control of airflow.



Selectable Airflow Pattern

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

FCF series

Typical flow patterns

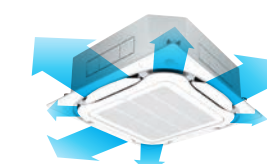
There are a total of 18 flow patterns.

All-round flow



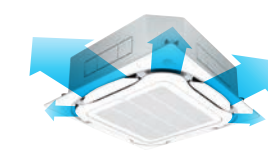
(E.g., installed in middle of ceiling)
4-way flow also possible.

3-way flow



(E.g., installed near a wall)

L-shaped 2-way flow



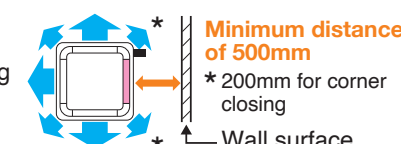
(E.g., installed in a corner)

Opposite 2-way flow



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

Required distance to wall surface for closing air discharge outlet



Note:
- Whatever the discharge direction, the same type of panel is used. If installing for other than all-round flow, an air discharge outlet sealing material (option) must be used to close each unused outlet.
- Operation sound increases when using 2-way or 3-way flow.
- Designer panel cannot operate 2-way and 3-way flow.

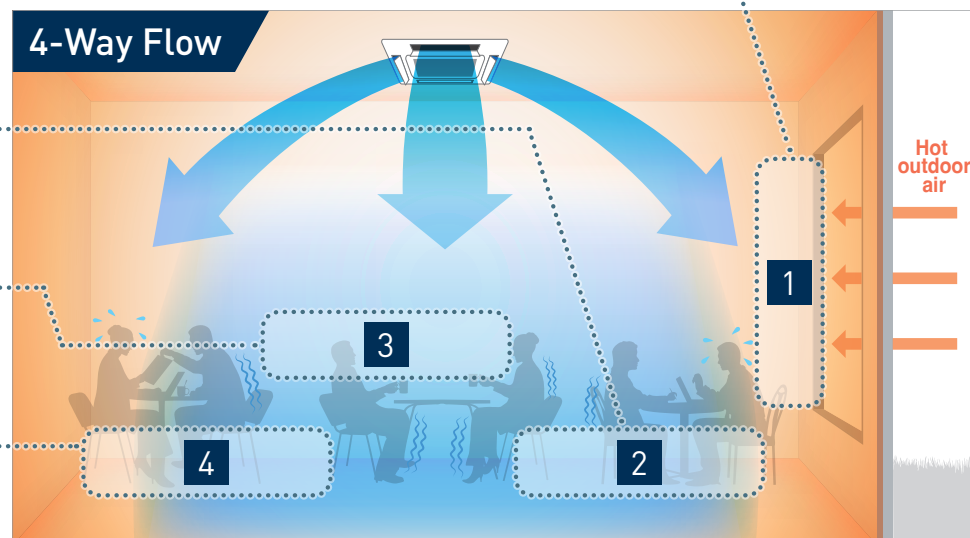


Circulation Airflow Evenly Distributes Cool Air *1

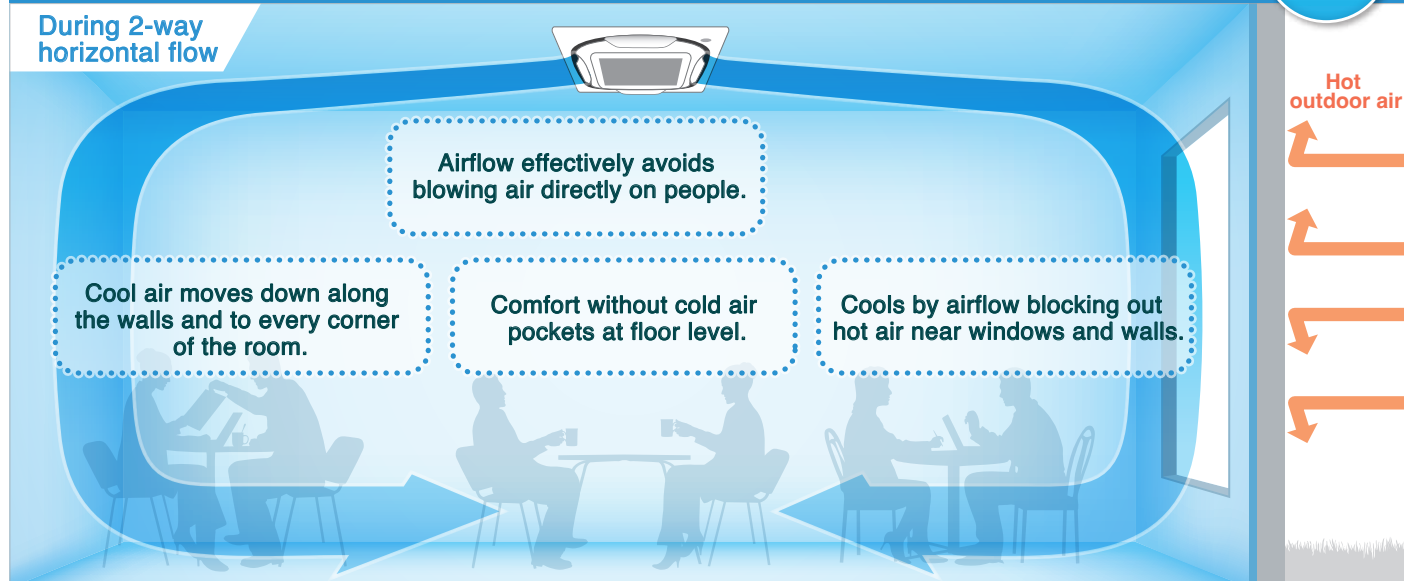
Conventional airflow had areas that were either too cool or not cool enough.



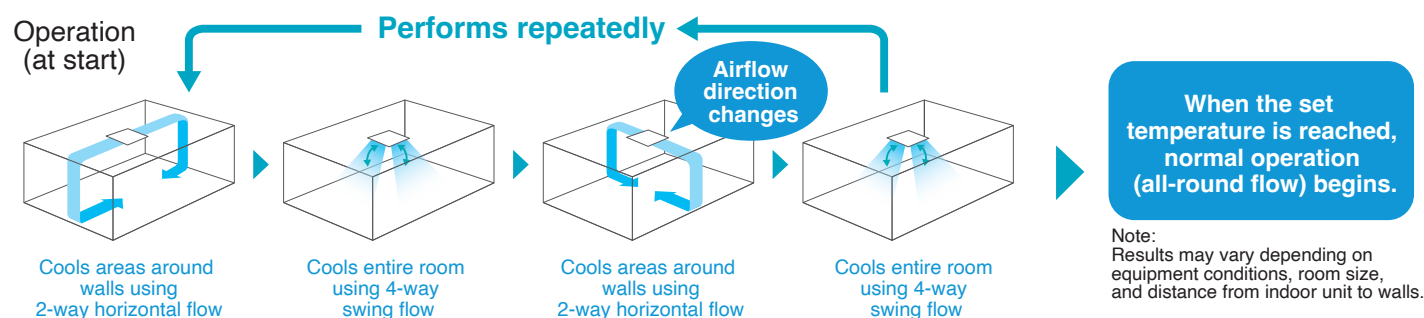
- Problem 1**
Hot outdoor air entering through windows and walls causes these areas to become hot.
- Problem 2**
Cool air accumulating directly underneath causes cold air pockets at floor level.
- Problem 3**
Airflow blowing directly on people causes discomfort for people in the room.
- Problem 4**
Quick descent of cool air causes insufficient cooling for corners of the room.



Circulation airflow cools the entire room to deliver comfort that never feels cold.



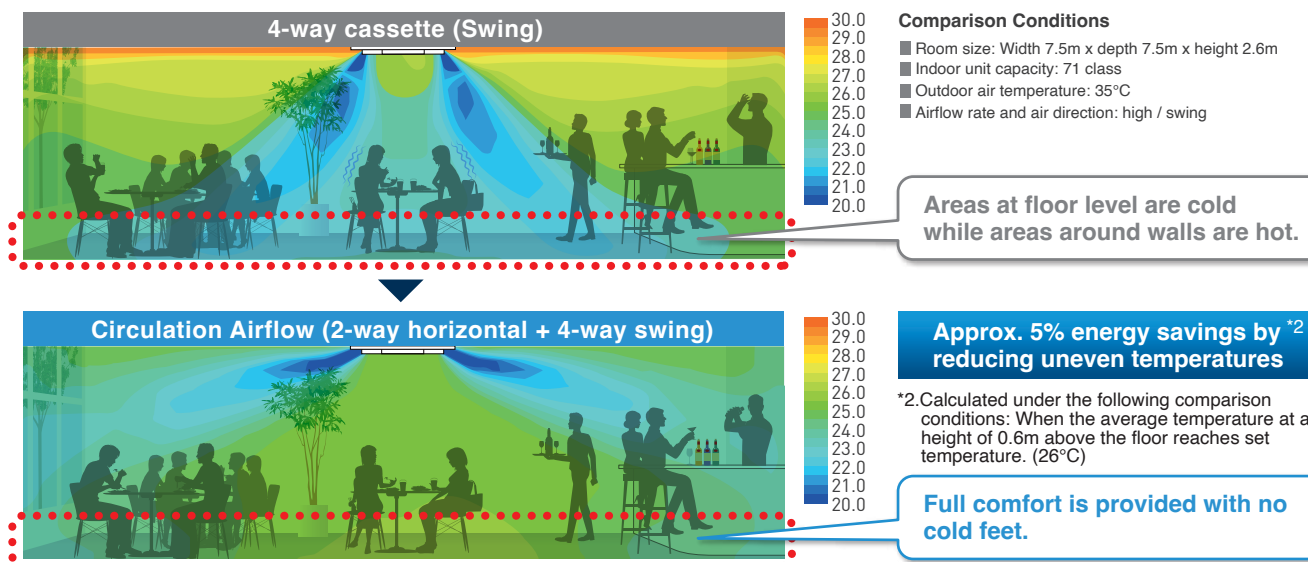
Configurations of Circulation Airflow (Cooling)



*1. Applicable when wired remote controller BRC1E63 is used.

FCF series

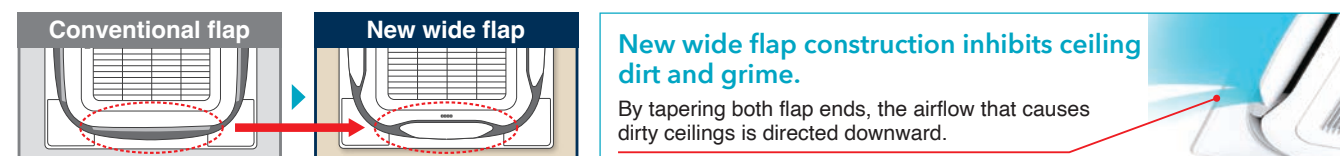
Comfort to the Entire Room with Even Temperatures and No Cold Air Pockets at Floor Level



Three Technologies That Achieved Circulation Airflow

1 Use of new wide flaps (Straight)

With new, larger flaps, a straighter trajectory for airflow was achieved.



2 Optimizing airflow angle (Horizontally)

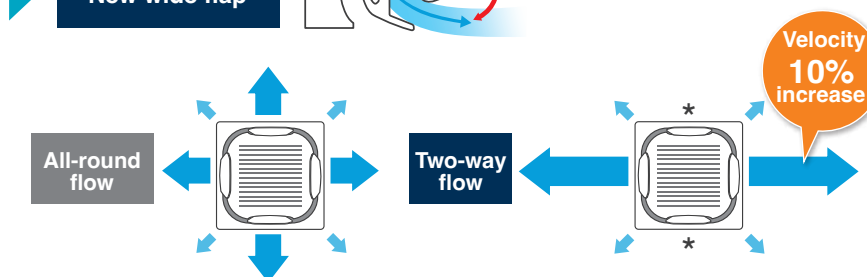
The airflow angle was made more horizontal.



3 Increased velocity in 2-way flow (Strongly)

Airflow velocity is increased by up to 10% during 2-way flow.

* Other 2 outlets are controlled by changing the flap direction (angle) to suppress airflow volume.

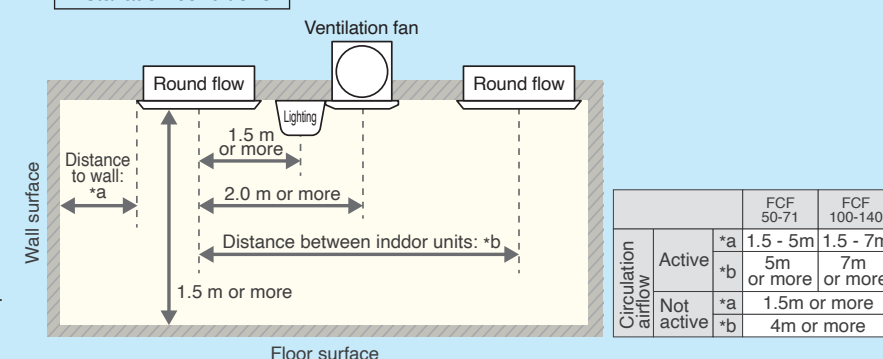


Things to remember when using circulation airflow

Main points for use

- Effectiveness may differ according to room conditions, room size, and distance to walls.
- Airflow operation differs when using the designer panel. (Operation repeatedly switches from 3-way horizontal flow to 4-way downward flow [swing] to 2-way horizontal flow to 4-way downward flow [swing].)
- Circulation airflow functions during connection with wired remote controller. (BRC1E63). However, use is not possible for the following conditions:
 - When using following options; (Sealing material of air discharge outlet, Fresh air intake kit Chamber type, and Branch duct chamber.)
 - When individual airflow setting is selected;
 - When using group control other than round flow.

Installation conditions





Individual Airflow Direction Control *1

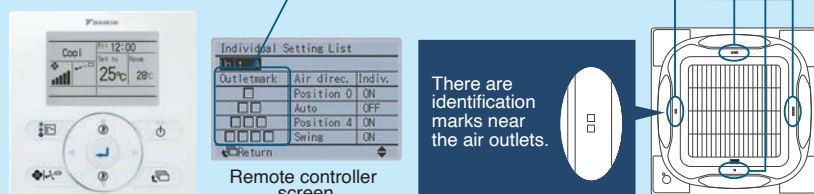
*1. Applicable when wired remote controller BRC1E63 or BRC1H63W(K) is used.

Comfortable Air Conditioning for All Room Layouts and Conditions

Airflow direction can be individually adjusted for each air discharge outlet to deliver optimal air distribution.

Easy setting is possible with a wired remote controller.

BRC1E63

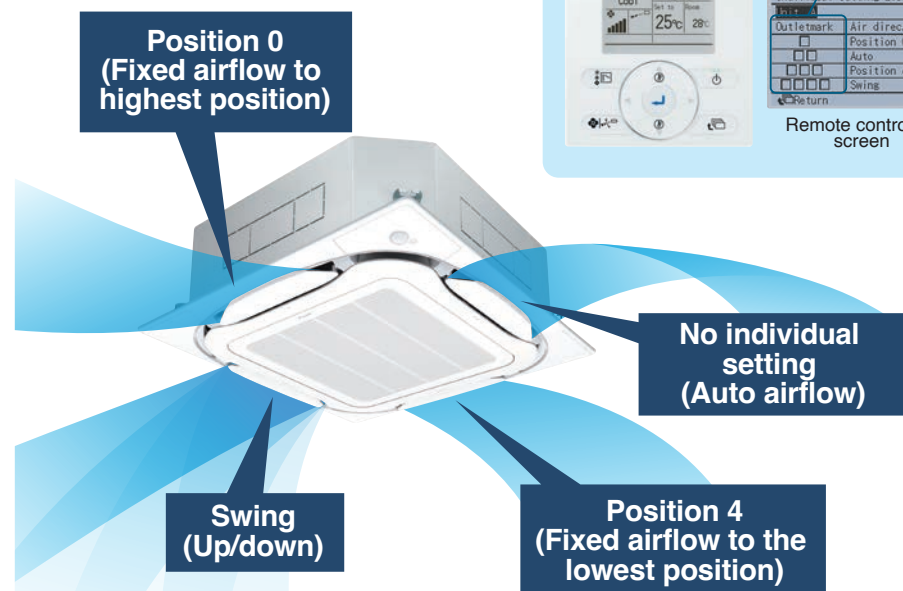


There are identification marks near the air outlets.

Individual airflow settings

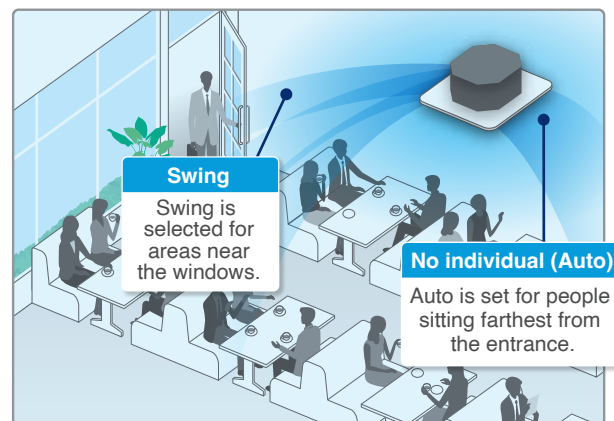
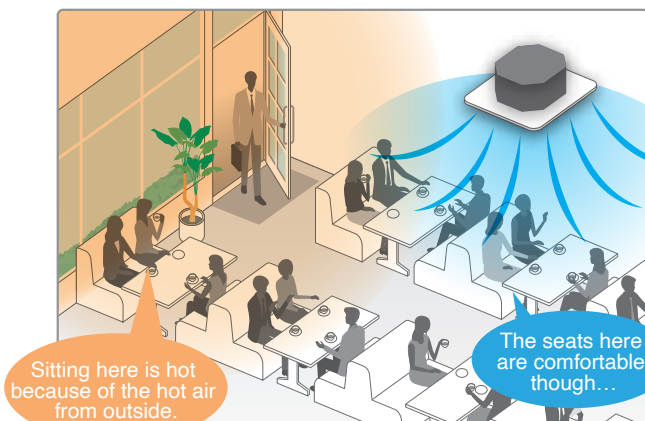
- No individual setting (Auto airflow)
- Position 0 (Highest point)
- Position 1
- Position 2
- Position 3
- Position 4 (Lowest point)
- Swing

Individual settings are possible as stated above.

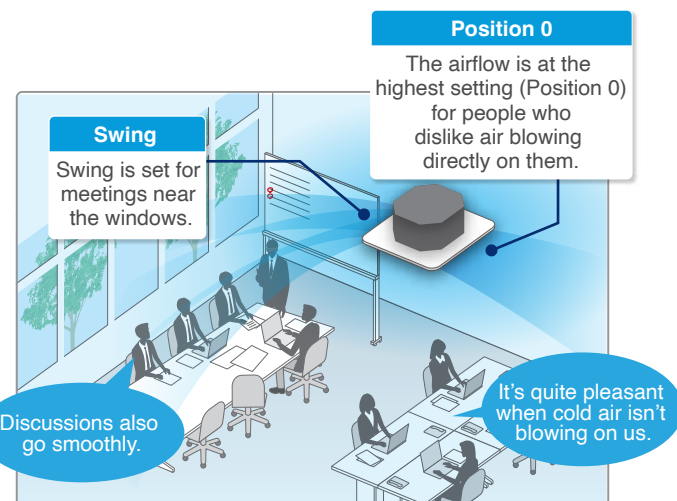
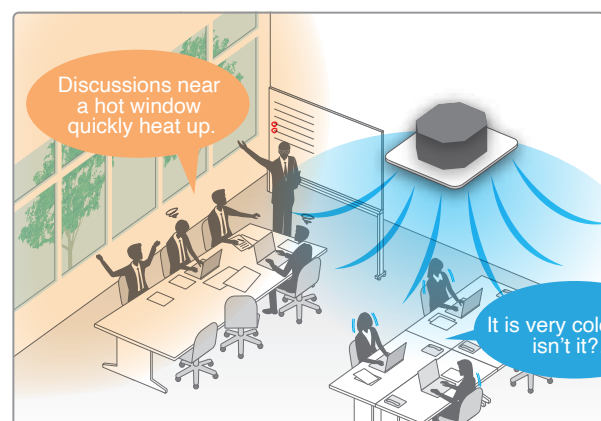


When individual airflow is selected, airflow direction can be adjusted to room layout.

• For shops and restaurant



• For offices

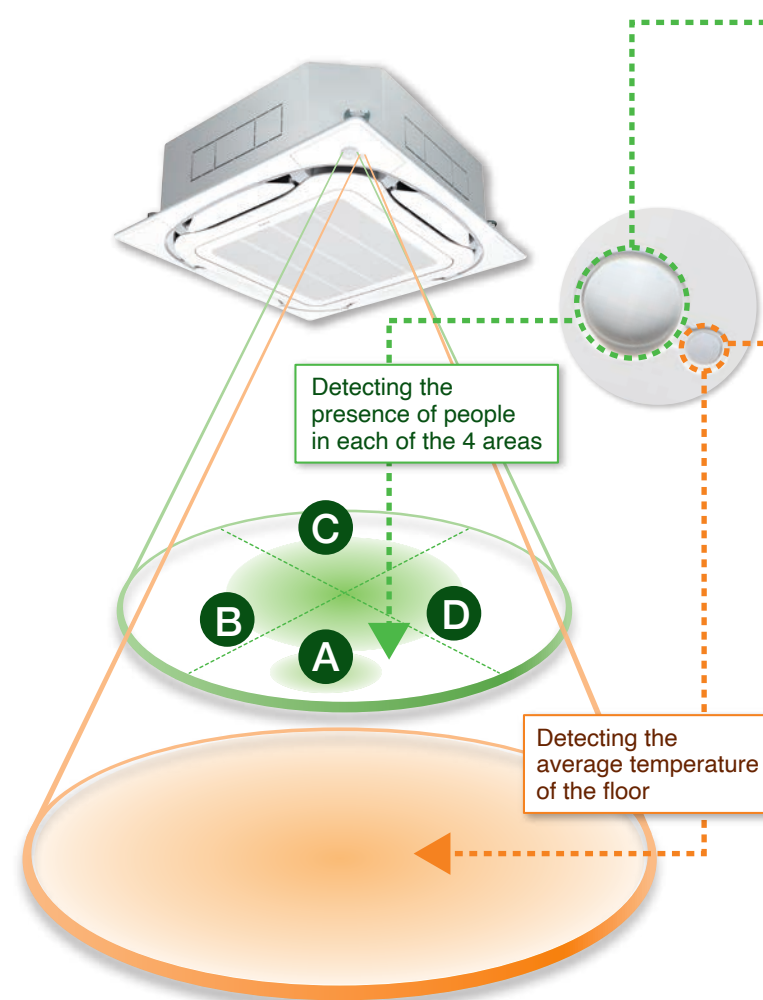


Daikin Sensing Technology *2

*2. Applicable when sensing panel (BYCQ125EEF/EEK) is installed.

Dual Sensors

Dual sensors and individual airflow direction control automatically provide optimal control of airflow.



Infrared presence sensor

The sensor detects the presence of people in each of the 4 areas.

Ceiling height	2.7m	3.5m	4.0m
Detection range (diameter) ^{*3}	approx. 8.5m	approx. 11.5m	approx. 13.5m

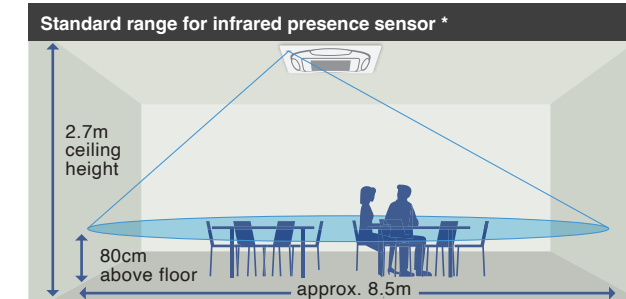
*3. The infrared presence sensor detects 80cm above the floor.

Infrared floor sensor

The sensor detects the floor temperature and automatically adjusts operation of the indoor unit to reduce the temperature difference between the ceiling and the floor.

Ceiling height	2.7m	3.5m	4.0m
Detection range (diameter) ^{*4}	approx. 11m	approx. 14m	approx. 16m

*4. The infrared floor sensor detects at the floor surface.



[Concerning infrared presence sensor]
- People are detected by large movements such as the motion of people walking at a certain distance away from sensor.
- Human detection is not possible for blind areas of sensor.
[Concerning infrared floor sensor]
- The detected temperature may sometimes be affected by a heat source, window, or device emitting heat in the detection range.

Auto Airflow Functions*5

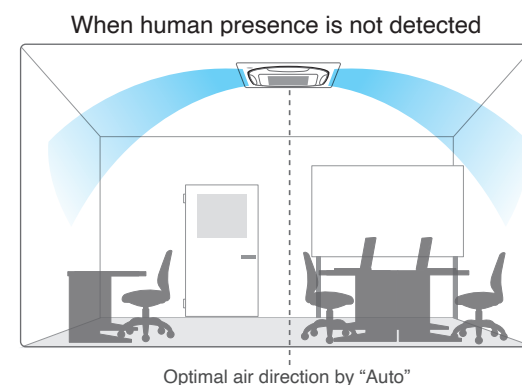
*5. Airflow direction should be set to "Auto".

Direct Airflow*6 (default: OFF)

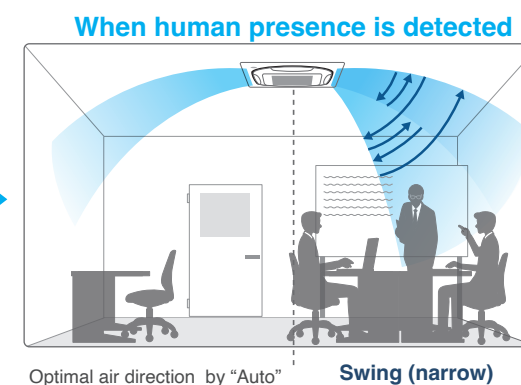
Cooling

Dry

*6. Applicable when BRC1E63 is used.



Optimal air direction by "Auto"



Optimal air direction by "Auto" Swing (narrow)

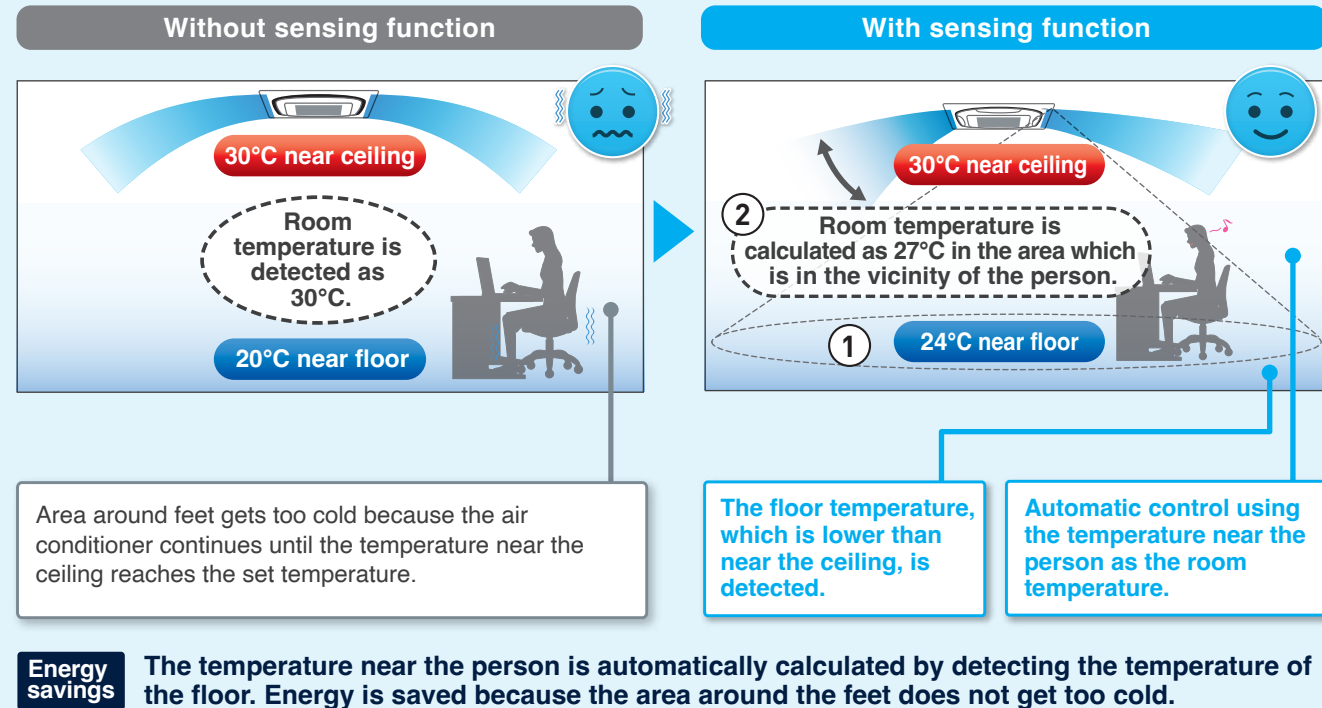
- With "Auto" airflow direction mode, flaps are controlled to deliver optimal airflow when the room is unoccupied.
- When presence is detected, air direction is set to "Swing (narrow)" to deliver cool air to users.
- When human is not detected for 5 minutes, the unit automatically returns to controlling the flaps for an unoccupied room.

Daikin Sensing Technology *1

*1. Applicable when sensing panel (BYCQ125EEF/EEK) is installed.
*2. Airflow direction and airflow rate should be set to "Auto".

Comfort and Energy Saving Preventing Overcooling / Overheating *2

Floor temperature is detected and overcooling prevented. **Cooling**



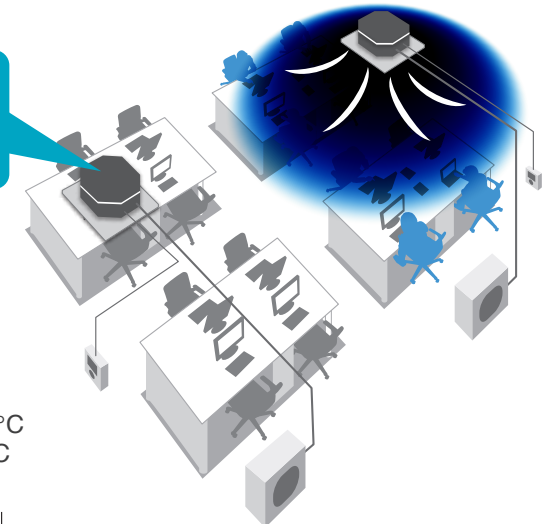
Sensing Sensor Functions *3,4,5

Sensing sensor low mode (default: OFF)

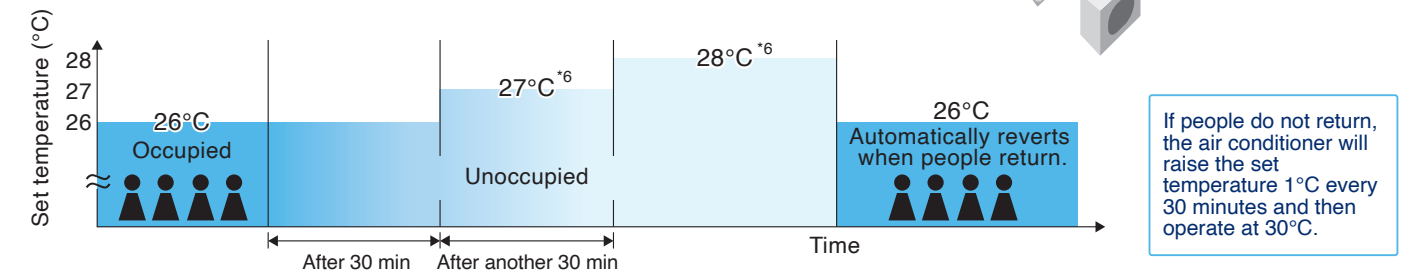
When there are no people in a room, the set temperature is shifted automatically.

- The system automatically saves energy by detecting whether or not the room is occupied. The set temperature is shifted automatically if the room is unoccupied.

Operation is reduced in places where there are no people.



Example • Cooling set temperature: 26°C • Shift temperature: 1.0°C
• Shift time: 30 min. • Limit cooling set temperature: 30°C



Shift temperature and time can be selected from 0.5 to 4°C in 0.5°C increments and 15, 30, 45, 60, 90 or 120 minutes respectively with remote controller.

*6. On basic screen of remote controller, set temperature does not change.

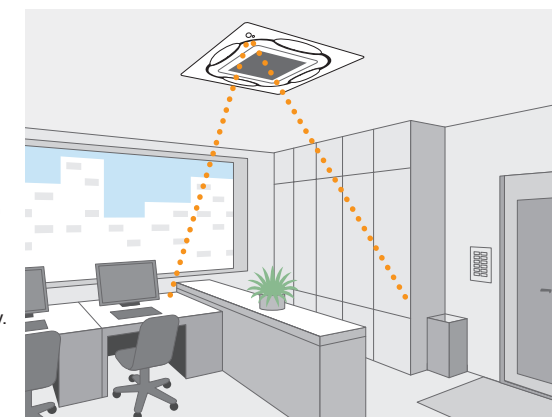
Sensing sensor stop mode (default: OFF)

When there are no people in a room, the system stops automatically. *7,8

- The system automatically saves energy by detecting whether or not the room is occupied.
- Based on preset user conditions, the system automatically stops operation if the room is unoccupied.

Absent stop time can be selected from 1 to 24 hrs in 1 hr increments with remote controller.

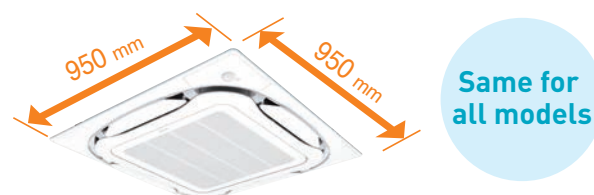
*7. Please note that upon re-entering the room, the air conditioner will not switch on automatically.
*8. To protect the machine, the standby system may operate temporarily.



Comfort

Unified square panels

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



Optimal comfort and convenience assured by 3 air discharge modes

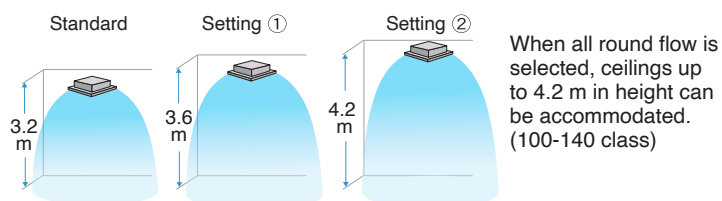
Air direction	Standard setting ¹	Draft prevention setting (field setting)	Ceiling soiling prevention setting ² (field setting)
Desired situation	For gentle drafts.	When drafts are unwanted.	For shops with light coloured ceilings that must be kept spotless.
Auto-swing			
5-level air direction setting			
Auto air direction control		The air direction is set automatically to the memorised position of the previous air direction.	

Note:
¹ 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.
² Closing of the corner discharge outlets is recommended.

Switchable fan speed: 5 steps and Auto

Suitable for high ceilings

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



Quiet operation

Indoor unit	Sound pressure level				
	H	HM	M	ML	L
50-71 class	37.0	34.5	32.0	29.5	27.5
100 class	45.0	41.5	38.0	35.0	32.5
125 / 140 class	46.0	43.5	41.0	38.5	36.0

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

		Number of air discharge outlets used							
		50-71 class				100-140 class			
		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:
• The aforementioned is for standard panels. See the installation manual for designer panels.
• Factory settings are for standard ceiling height and all-round flow.
• High ceiling settings (1) and (2) are set with the remote controller by field setting.
• High-efficiency filters are not available for high ceiling applications.

Cleanliness

Silver ion anti-bacterial drain pan

A built-in antibacterial treatment that uses silver ion in the drain pan prevents the growth of slime, bacteria, and mould that cause odours and clogging. (The lifespan of a silver ion cartridge depends on the usage environment, but should be changed once every two to three years.)



Non-flocking flaps

Flaps can be detached without use of tools. Condensation does not easily form and dirt does not cling to non-flocking flaps. They are easy to clean.



Filter has anti-mould and antibacterial treatment

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

Quick and Easy Installation

Lightweight

All models can be installed without using a lifter.

Installable in tight ceiling spaces

Standard panel	256mm (50-71 class) 298mm (100-140 class)	261mm (50-71 class) 303mm (100-140 class)
----------------	--	--

Designer panel	256mm 298mm 42mm ^{*1}	261mm 303mm +42mm ^{*1}
----------------	--------------------------------------	---------------------------------------

^{*1} Body height (ceiling required space) is 42 mm higher than standard panel.

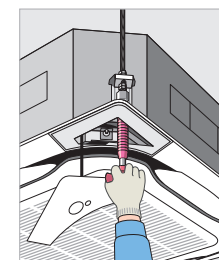
Auto grille panel	256mm 298mm 55mm ^{*2}	261mm 303mm +55mm ^{*2}
-------------------	--------------------------------------	---------------------------------------

^{*2} Body height (ceiling required space) is 55 mm higher than standard panel.

^{*}When the ceiling space is limited, an optional panel spacer is available. (see P.32)

Easy height adjustment

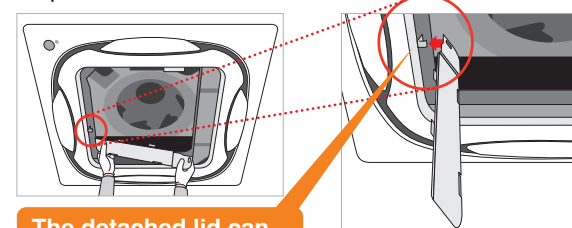
Each corner of the unit has an adjuster pocket that lets you easily adjust the unit's suspended height.



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

Temporary placement of control box lid

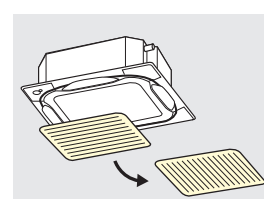
Because the control box lid can be temporarily hung on the unit, there is no need to climb down the stepladder to retrieve it.



The detached lid can be hung on a hook.

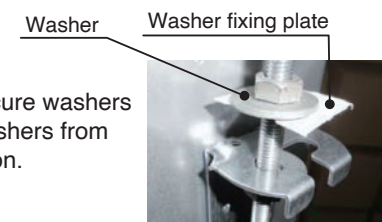
Installed in any direction

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



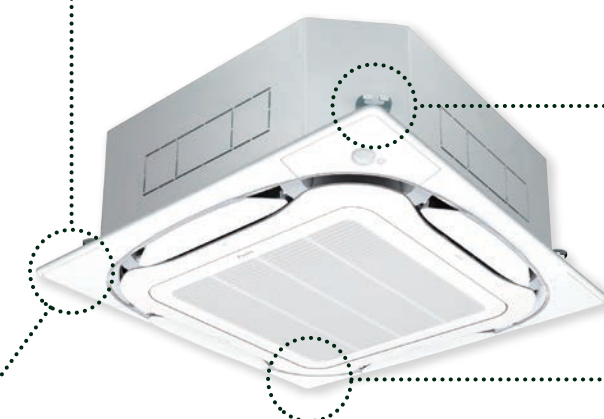
Easy hanging

Washer fixing plates secure washers in place and prevent washers from falling for easy installation.



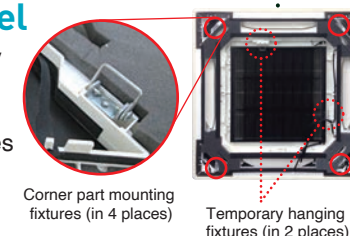
Easy removal of corner cover

It is possible to easily remove without use of screws or tools.



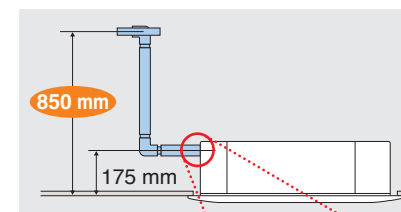
Ease in temporary hanging of decoration panel

In addition to the temporary hanging fixtures in 2 places normally used, corner part mounting fixtures in 4 places are provided.



Drain pump

Equipped as standard accessory with 850 mm lift.



Transparent drain socket



Hanging height adjustment

Because the configuration of the hanger bracket changed, the dimensions from the ceiling to the hanger bracket also change during height adjustment for indoor unit.

	A Dimensions
Standard panel	125-130mm
Designer panel	167-172mm
Auto grille panel	180-185mm
Chamber option [*] + standard panel	175-180mm

^{*}High-efficiency filter, ultra long-life filter, and fresh air intake

Easy Maintenance

Condition of the drain pan and drain water

Can be checked by removing the suction grille and drain plug.

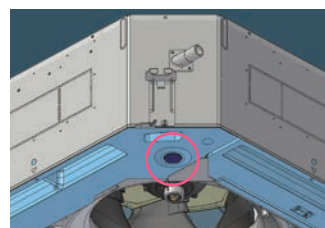
Note: For inquiries concerning auto grille panel installations, please contact your local dealer or Daikin representative.

Just open the suction grille!



24 mm diameter drain outlet

The drain outlet allows insertion of a finger or dental mirror for inspection of the internal cleanliness of the drain pan. Removal of the suction panel enables access.



Ultra long-life filter (option)

See page 32

Maintenance is not required in normal shops or offices for up to four years.

Low gas pressure detection

Auto grille panel (option)

Grille and air filter cleaning can be performed without need for a stepladder by lowering the grille.

A dedicated remote controller for the auto grille panel is included. Operation is not possible using other remote controllers.

The drop length corresponds to ceiling height and can be set for 8 different levels.

Ceiling Height Standard (m)	Drop Length
2.4	1.2
2.7	1.6
3.0	2.0
3.5	2.4
3.8	2.8
4.2	3.1
4.5	3.5
5.0*	3.9

*Airflow range is up to 4.5m. Please refer to "criteria for ceiling height and number of air discharge outlets" on page 29.



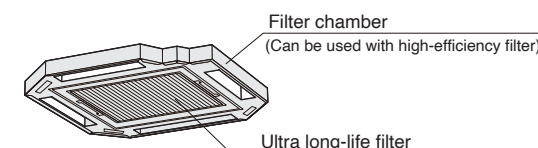
Options

See page 53-54

Options required for specific operating environments

Ultra long-life filter unit

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



Dusty area: annual filter change

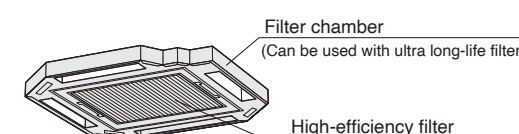
*For dust concentration of 0.3 mg/m³ (Requires separately sold Air purifier.)
1 year (Approx. 5,000 hr) $\approx$ 15 hr/day x 28 day/month x 12 month/year

Ordinary store or office: filter change every 4 years

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

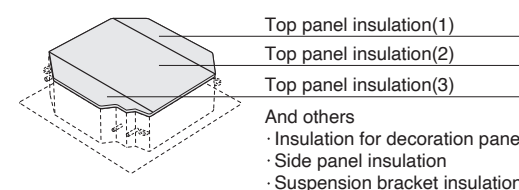
High-efficiency filter unit

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



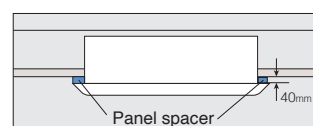
Insulation kit for high humidity

Please use for cases when the temperature and humidity inside ceiling may exceed 30°C and 80%RH, respectively.



Panel spacer

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



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

Sealing material of air discharge outlet

FCF series

*FCF series is not available.

By using this option, 2-way, 3-way, or 4-way flow can be selected.

Branch duct chamber

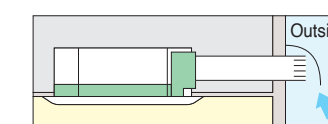
FCF series

*FCF series is not available.

This chamber lets you connect a round flexible duct to the air discharge opening at any time after the original installation.

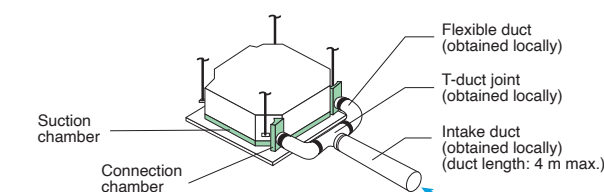
Fresh air intake kit *4,5

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

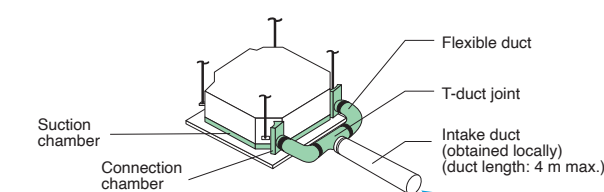


The units can be installed in the following different ways

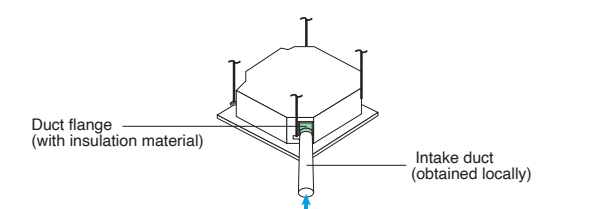
Chamber type (without T-duct joint) *6,7,8 **KDDP55C160**



Chamber type (with T-duct joint) *6,7,8 **KDDP55C160K**



Direct installation type *9 **KDDP55X160A**



- Note: *4. Use of options will increase operating sound.
*5. Connecting ducts, fan, insect nets, fire dampers, air filters, and other parts should, as required, be obtained locally.
*6. When a local-obtained fan is used, an interlock with air conditioner is necessary. Optional PCB (BRP11B62) is required for interlocking.
*7. When installing a fresh air intake kit (chamber type), two air outlet corners are closed.
*8. 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 sensing.
*9. The volume of fresh air for direct installation type is approximately 1% of the indoor unit airflow.
The chamber type is recommended when more fresh air is necessary.

Options

See page 53-54

High performance prefilter (MERV 8 filter)

MERV 8 rating

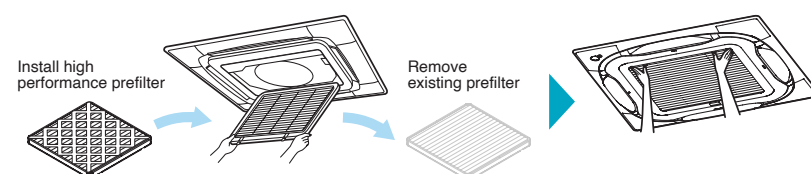
PM2.5 filtration

This filter can catch fine particles that cannot be removed by the existing prefilter, capturing 97% of 1.0-3.0 μ m particles and 99% of 3.0-10 μ m particles when air passes through the filter 10 times.

Easy replacement

The existing prefilter can be replaced easily*. Since it's a chamberless filter, the installer will remove the existing prefilter and replace it with the high performance prefilter.

* The filter should be fixed to the air conditioner with attached components, so consult your dealer when installing or replacing the filter.



Filter change twice a year

Specifications

Dimensions	mm	526 x 523 x 35
Airflow rate	m ³ /min	13.0 22.9 37.0
Initial Pressure Drop*2	Pa	18.1 35.8 81.4
Weight	g	520
Lifetime *3		6 months (1,250 hours)
Reuse		Non-reusable

Note: 1. Field setting for high ceiling application is required. The setting number differs according to each model. Please refer to the installation manual.

*2. This result is based on the test of the filter only. The results may be different in the actual use environment where the filter is installed in the indoor unit.

*3. Filter lifetime may vary depending on the condition of the operating environment. Certain instances such as high traffic areas, pets or smokers in a residence, or other situations may require more frequent changes.

CEILING SUSPENDED TYPE

Comfortable airflow travels
throughout the room

NEW FHA50/60/71/100/125/140DV1



Option

Accessory required for indoor unit.

Wired Remote Controllerer *1

- Stylish Remote Controller (Wired)



BRC1H63W
(White)



BRC1H63K
(Black)

- Navigation Remote Controller (Wired)



BRC1E63

Note: *1 Remote controller cable is not included and must be obtained locally.

Wireless Remote Controller *2

- Wireless Remote Controller



Cooling only
BRC7M56



Signal receiver unit
(Installed type)

Wireless remote controller is supplied
in a set with a signal receiver.

Note: *2 A signal receiver must be added to the indoor unit.

Stylish Model

Sophisticated design

Flap neatly closes when not in use.



White colour

Comfort

The technology

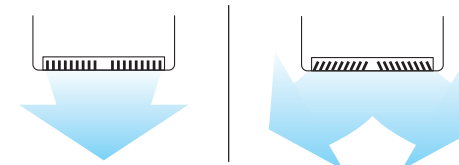
DC fan motor, wide sirocco fan, and large heat exchanger combine for greater airflow and quiet operation

Auto swing (up and down) and louvers

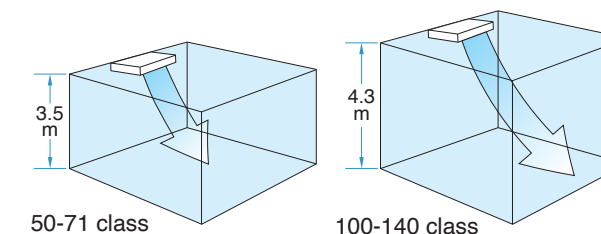
(left and right by hand)

Bring comfort to the room.

Louver manually adjusts for straight or wide angle airflow



Suitable for high ceilings



	50-71	100	125/140
Standard	2.7m or less	3.8m or less	4.3m or less
High ceiling	2.7m-3.5m	3.8m-4.3m	—

Note: Factory settings is "standard".
"High ceiling" are set with remote controller by field setting.

Switchable fan speed: 5 steps and Auto

Oil Resistant Grille

Oil-resistant plastic is used for the air suction grille.

This satisfies durability in restaurants and other similar environments.

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

Specification	Option
P.50	P.55

Streamer Filter Clean Function *3

*3. Applicable when
BRC1H63W(K) is used.

See page 17

Streamer filter clean unit (Option)

Irradiates Streamer when the fan and air conditioning operation are stopped.
Streamer fumigates the cabin and sterilizes the filter.



BAPWS55A61

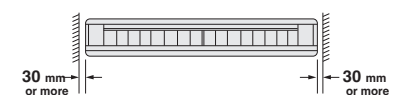
Remarks:

The Streamer function operates only
when the fan and air conditioning
operation are stopped.
The maximum operation time of
Streamer is 180 minutes per day.

Installation Flexibility for Freedom of Design

Flexible installation

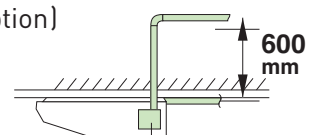
The unit fits more
snugly into tight
spaces.



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

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.



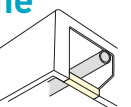
Drain pump kit
(built inside the unit)

DIII-NET communication standard

All wiring and internal servicing can be done from under the unit

The rear side removable frame

allows ease of access for piping work



Easy Maintenance

Drain pump kit (option) includes a silver ion antibacterial agent

That assists in preventing the growth of slime, bacteria,
and mould that cause odours and clogging.

Non-flocking flap

Condensation does not easily
form and dirt does not cling to
non-flocking flap.

It is easy to clean.

Non-flocking flap



Easy-clean, flat surfaces

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

DUCT CONNECTION MIDDLE STATIC PRESSURE TYPE

Middle static type allows greater flexibility



NEW FBA50/60/71/100/125/140CV1



Option Accessory required for indoor unit.

Wired Remote Controllerer *1

- Stylish Remote Controller (Wired)



BRC1H63W
(White)



BRC1H63K
(Black)



BRC1E63

Note: *1 Remote controller cable is not included and must be obtained locally.

Wireless Remote Controller *2

- Wireless Remote Controller



Cooling only
BRC4C66

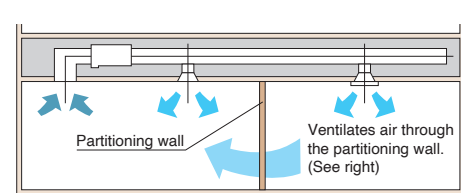


Signal receiver unit
(Separate type)
Wireless remote controller is supplied in a set with a signal receiver.

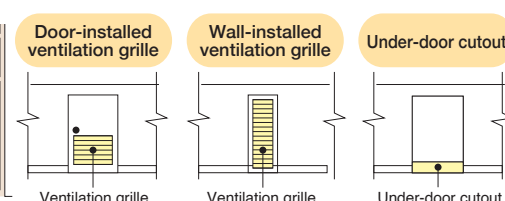
Note: *2 A signal receiver must be added to the indoor unit.

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.



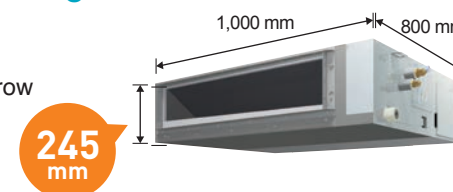
Note: The under-door cutout method should be used only when there is a small volume of airflow.



Design and Installation Flexibility

Only 245 mm high

Installation is possible even in buildings with narrow ceiling spaces.

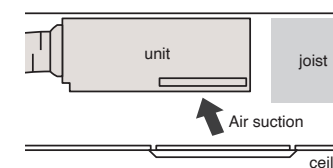


One of the industry's most compact bodies in the mid-static pressure range.

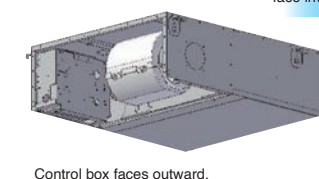
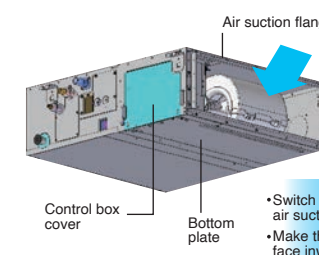
Indoor unit	50-71 class	100-140 class
Height	245 mm	
Width	1,000 mm	1,400 mm
Depth	800 mm	

Bottom suction is available

Wiring and servicing can be done from the underside of the unit (an option part required).

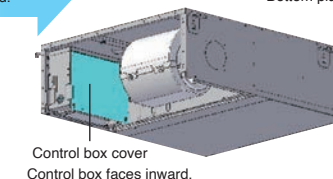
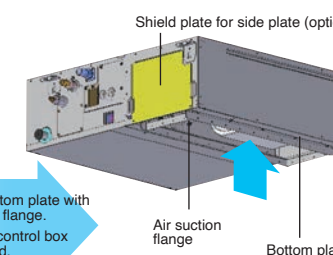


Rear suction



Control box faces outward.

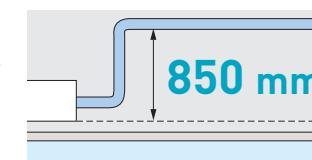
Bottom suction



Control box cover
Control box faces inward.

Higher lift is realized

A built-in DC drain pump with standard accessory is utilised.



Adjustable E.S.P.

External static pressure can be controlled to within a range of 50 Pa to 150 Pa by using a DC fan motor.



Set to low static pressure when ducts are short.

Set to high static pressure for advanced needs such as when using dampers and long ducts.

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

Airflow rate auto adjustment function

Controls the airflow rate using a remote controller during test run.
It is automatically adjusted to approximately $\pm 10\%$ of the rated H tap airflow.

Interlock control

As an energy saving feature, the room air conditioning unit can be interlocked with the hotel key card system. Using a 3rd-party building management system, air conditioning and lighting can be interlocked.

* Field setting with remote controller



DIII-NET communication standard

Connection to a centralised control system is available without need for an optional adaptor.

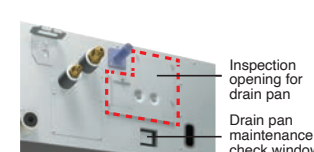
Easy Maintenance

Position of drain pan inspection opening

Modified for easier inspection work.

Drain pan maintenance check window

This makes it possible to inspect for drain pan dirt and to confirm drainage during installation without the use of tools.



Comfort

Switchable fan speed: 3 steps and Auto

"Auto" is applicable when wired remote controller is used.

High Efficiency

DC fan motor and DC drain pump

These are utilised to improve energy efficiency.

Cleanliness

Silver ion anti-bacterial drain pan

A built-in antibacterial treatment that uses silver ion in the drain pan prevents the growth of slime, bacteria, and mould that cause odours and clogging.
(The lifespan of a silver ion cartridge depends on the usage environment, but should be changed once every two to three years.)



WALL MOUNTED TYPE

Compact design and easy installation



FAA76/100BVMAN



Option

Accessory required for indoor unit.

Wired Remote Controllerer *1

- Stylish Remote Controller (Wired)



BRC1H63W (White) **BRC1H63K** (Black)

- Navigation Remote Controller (Wired)



BRC1E63

Note: *1 Remote controller cable is not included and must be obtained locally.

Wireless Remote Controller *2

- Wireless Remote Controller



Cooling only
BRC7EB519



Signal receiver unit
(Installed type)

Wireless remote controller is supplied in a set with a signal receiver.

Note: *2 A signal receiver must be added to the indoor unit.

Compact & Sophisticated Design

Flaps neatly close

When not in use.

Fresh white colour



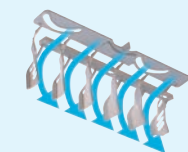
Comfort

Auto swing (up and down) and wide-angle louvers (left and right by hand)

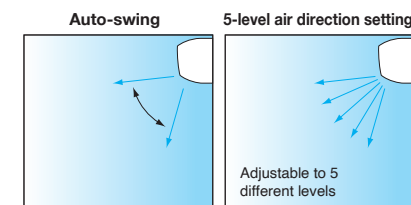
facilitate even room temperature.

Wide-angle louvers (by hand)

Soft material louver bends airflow over a wider area

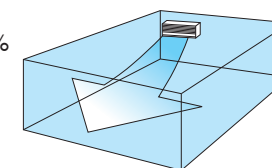


An air discharge modes ensure comfortable air distribution across the entire room



Comfort even on the far side of the room

To carry air to the far side of long rooms, extra-high airflow adds 10% more fan speed the "high" setting. Air discharge strength is selected from the remote controller by field setting.



Switchable fan speed: 3 steps and Auto

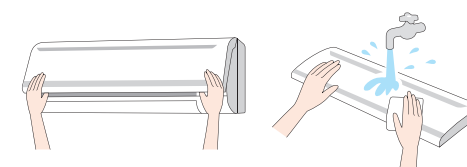
"Auto" is applicable when wired remote controller is used.

Programme "Dry"

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

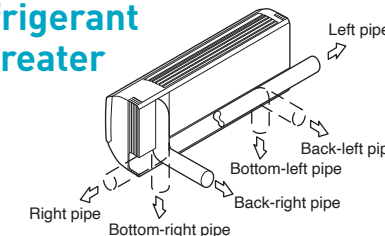
Easy Cleaning

Removable and washable grille



Design and Installation Flexibility

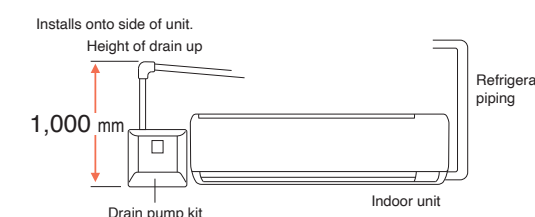
6-direction refrigerant piping offers greater installation flexibility



Maintenance possible from the front of the unit

All maintenance tasks can be carried out via front access. During servicing, attachment and detachment of parts is easier.

Drain pump kit is available as option



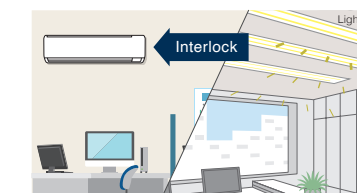
Drain pump kit can be installed on either left and right side of the indoor unit.



Interlock control

As an energy saving feature, the air conditioner can be interlocked with the key card system.

Using a 3rd-party building management system, air conditioning and lighting can be interlocked.



* Field setting with remote controller

DIII-NET communication standard

Connection to a centralised control system is available without need for an optional adaptor.

Flat panel, easy to wipe dust off

Non-flocking flaps

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

1 Phase



NEW RZF50/60/71DV1
RZF76CVMN

3 Phase



RZF76/100CYMN



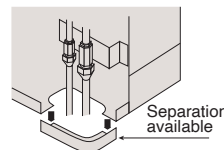
NEW RZF100/125/140DY1

Easy Installation and Maintenance

4-direction piping offers greater layout freedom (RZF100-140DY1)

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

Removable part of bottom frame makes the piping work easier (RZF100-140DY1)



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.

*Although pumping-down operation allows most of the refrigerant to be recovered in a short period of time, some refrigerant will remain inside the indoor unit and refrigerant piping.

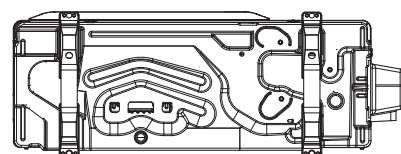
Using a refrigerant recovery machine, recover remaining refrigerant from the stop valve service port until the pressure falls to 0.09 MPa. (gauge pressure:-0.011MPa) or less.

Low gas pressure detection function

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

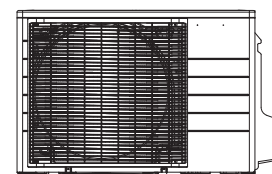
Smooth Drainage

Bottom frame structure allows water to flow smoothly



Taller installation leg than current model

current RZR50/60/71MVM



595 mm

NEW RZF50/60/71DV1



608 mm

Reuse of Existing Piping: Refrigerant Pipe Size Table

Outdoor Unit			Existing pipe size (Liquid / Gas)						Height difference	Design pressure (High pressure)	
			6.4 / 12.7	6.4 / 15.9	9.5 / 12.7	9.5 / 15.9	9.5 / 19.1	12.7 / 15.9			12.7 / 19.1
RZF50-71DV1 RZF76CVMN	9.5 / 15.9	Condition	■	▲	■	◎	×	△	×	Max. 30m	4.15MPa* 4.17MPa
		Max. piping length	10m	10m*	50m	50m	—	25m	—		
		Chargeless pipng length	10m	10m	30m	30m	—	15m	—		
RZF76/100CYMN RZF100-140DY1	9.5 / 15.9	Condition	■	▲	■	◎	○	△	△	Max. 30m	4.15MPa* 4.17MPa
		Max. piping length	10m	10m*	50m	50m	50m	25m	25m		
		Chargeless pipng length	10m	10m	30m	30m	30m	15m	15m		

- Standard pipe size
- Same condition with standard pipe
- △ Piping length and chargeless piping length are shortened
- Cooling capacity is lowered (pay attention to piping length)
- ▲ Piping length and chargeless piping length are much shortened
- × Reuse of existing piping is not allowed

★ The allowable minimum piping length is 5 m. *RZF76/100CVMN/CYMN: 4.15MPa.

- Refer to the installation manual for details other than those mentioned in the left table such as additional refrigerant charge amount.
- Clean the existing piping if its length exceeds 30m.
- Clean the existing piping if existing piping length exceeds limit of chargeless piping length to perform pump-down refrigerant recovery.

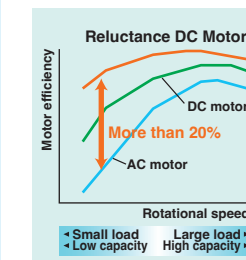
Technology for Energy Efficiency

The high efficiency compressor to achieve a high COP

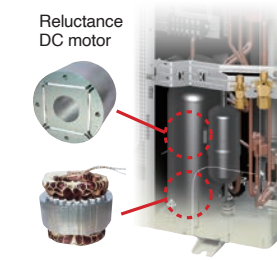
1 Compressor equipped with reluctance DC motor

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.

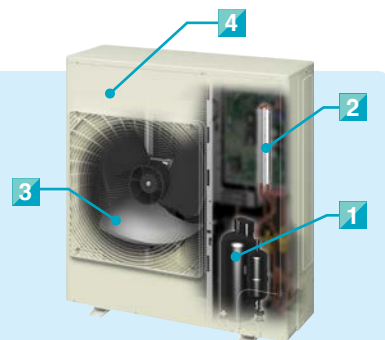
This motor can save energy because it generates more power with a smaller electric power than an AC or previous DC motor.



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

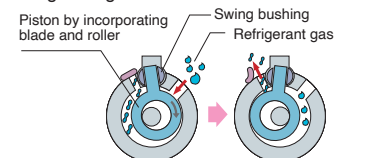


- A neodymium magnet is approximately 10 times stronger than a standard ferrite magnet.
- The torque created by the change in power between the iron and magnet parts.



Swing compressor
High efficiency during partial load operation.

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

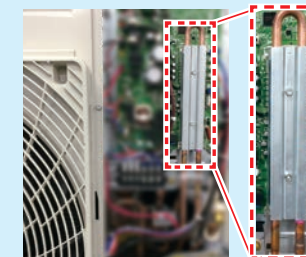


2 Refrigerant cooling

(RZF76/100CYMN, 100-140DY1)

Daikin's unique refrigerant cooling system exhibits high cooling capacity even during high outdoor temperatures.

Refrigerant cooling helps protect the printed circuit board and maintains high cooling capacity even during high outdoor temperatures.



3 Fan

V-cut Propeller Fan (RZF50-71DV1, 76CVMN, 76/100CYMN)

Through use of a V-cut propeller fan that imitates the efficiency of the swan, a migratory bird, airflow becomes smooth and loss is reduced.



V-cut propeller fan

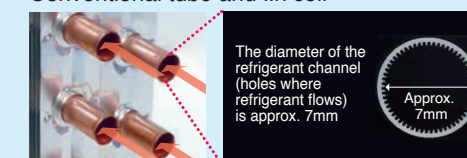


Imitating the performance of the swan

4 High condensing capacity by micro channel heat exchanger

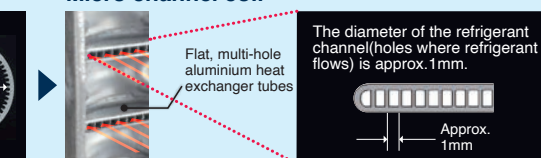
Reduced wind resistance The flattening of the heat exchanger tubes improves the flow of air and increases heat exchange efficiency.

Conventional tube and fin coil



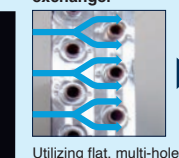
Flow of refrigerant

Micro channel coil



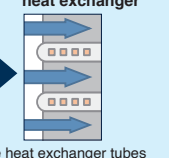
Flow of refrigerant

Conventional heat exchanger



Flow of refrigerant

Micro channel heat exchanger



Flow of refrigerant

Utilizing flat, multi-hole heat exchanger tubes increases the heat exchange area and realizes energy savings.

Stylish Remote Controller (Wired Remote Controller)

BRC1H63W/K



BRC1H63W (White)



BRC1H63K (Black)



Sleek Stylish Design

Much like the perfection of its circular shape, the remote controller gives you perfect control over your individual climate.

User-friendly Interface

The new remote controller combines functionality and simplicity. The minimalistic touch button control enlarges the display and makes the remote controller both easy and enjoyable to use.



DAIKIN APP for Installer

Simplifies the advanced settings such as field settings and setpoint range.

- Visual interface simplifies advanced settings such as energy saving activation, setting restrictions, etc.
- Easy and quick commissioning, saves time and cost for installers.
- Featuring Bluetooth low energy technology.



Compatible OS version : Apple iOS 16, Android 13.

Useful Administration / Shorter and Easier Installation

The smartphone application connected to this controller provides 2 modes, Owner / Administrator mode and Installer mode (no end-user mode).^{*1}

Owner / Administrator mode provides useful setting of

- Setback setting
- Setpoint range setting
- Function lock etc.

Installer mode makes installation faster and easier with

- Set up multiple settings at once
- Save and reuse settings etc.



^{*}Bluetooth low energy 4.2.

Streamer function

See page 17

Streamer ON/OFF setting and status icon are available.

- Streamer function (Mould proof setting) ON/OFF can be set by field setting with the remote controller.

Convenient new functions

- OFF timer
 - Preset from 1 to 96 hours in 1-hour increments.
- Weekly schedule timer
- OTA (Over The Air): remote update function
- Simple display for hotel guests
- Zigbee™ sensor interlocking

Setback

Maintains the room temperature in a specific range when the system is turned OFF (by user or OFF timer). To achieve this, the system temporarily runs in Cooling or Heating operation mode, according to the setback temperature and recovery differential.

Cooling operation

- Setback temperature can be set from upper limit of setpoint +1°C to 35°C.

Ex) When upper limit temperature is set at 27°C by Setpoint range set function, Setback temperature is selectable from 28°C to 35°C.

- Recovery differential can be set up to -8°C from setback temperature.

- Setback turns ON the system for at least 30 minutes, unless the setback temperature is changed, or the system is turned ON with the ON/OFF button.

Note: ^{*1} Installer mode requires dedicated QR code for start up. Contact your Daikin sales office.

Navigation Remote Controller (Wired Remote Controller)

BRC1E63

Operation is easy and smooth, just follow the indications on the navigation remote controller.

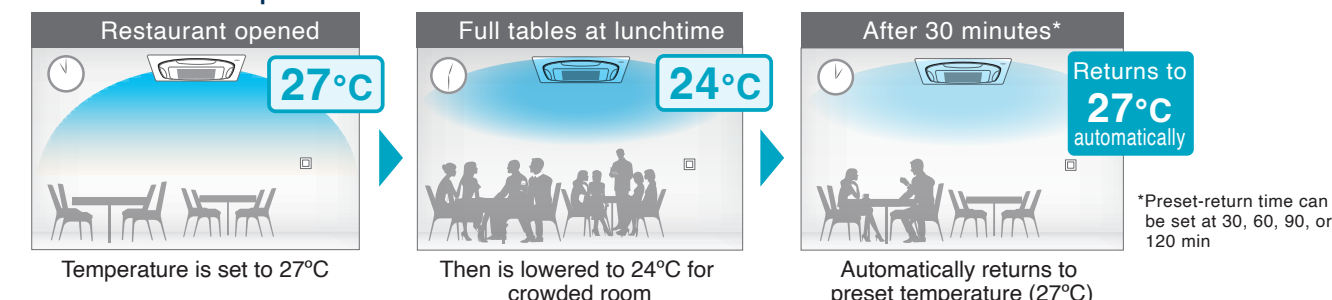


Energy Saving

Setpoint auto reset

- Even if the set temperature is changed, the new set temperature returns to the previous preset value after a preset duration of time.
- Period selectable from 30, 60, 90, or 120 min.

Restaurant example

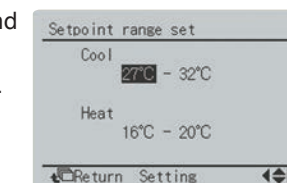


OFF timer (programmed)

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

Setpoint range set

- Saves energy by limiting the min. and max. set temperature.
- Avoids excessive heating or cooling.
- This function is convenient if the remote controller is installed where anyone can change the settings.



Convenience

5-step airflow control

- The number of airflow steps depends on the type of indoor unit. 5-step control applies to FCTF, FCF, and FHA series.

Energy consumption monitoring ^{*1,2,3,4}

- Past power consumption for the current and previous days (2-hour intervals), week (1-day intervals), and year (1-month intervals) can be checked.

Note:

^{*1} Availability of this function may vary according to model (limited to partial functionality)

^{*2} Time setting is necessary.

^{*3} This function cannot be used during group control.

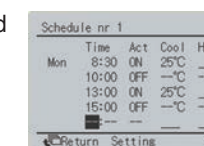
^{*4} This is a reference value for comparison and is not intended as a value for investigation purposes in the calculation of electricity bills or contract for electricity. Because it is a simple calculation of power consumption, there are cases when the calculated value differs with the measurement results of a wattmeter.

Setback (default: OFF)

- Maintains the room temperature in a specific range during unoccupied periods by temporarily starting an air conditioner that had been turned OFF.

Weekly schedule

- 5 actions per day can be scheduled for each day of the week.
- The holiday function will disable schedule timer for the days that have been set as holiday.
- 3 independent schedules can be set. (e.g. summer, winter, mid-season)



Auto display off

- While operation is stopping, LCD display can be turned OFF. It will be displayed again if any button is pressed.
- Period can be preset from 10, 30, 60 minutes, and OFF. Initial setting is 30 minutes.

Wireless Remote Controller



- The wireless remote controller is supplied in a set with a signal receiver.
 - Signal receiver unit of installed type is contained inside decoration panel or indoor unit.
 - Shape of signal receiver unit differs according to the indoor unit.
- Note: The signal receiver unit shown in the photograph is for mounting inside the decoration panel of the ceiling mounted cassette type.

Backlight LCD of new wireless remote controller



Pressing the backlight button helps operating in dark rooms.

BRC7M635F(K)



BRC7M56



BRC4C66



BRC7EB519

Wireless remote controller for each indoor unit type

	Cooling only
CEILING MOUNTED CASSETTE TYPE	BRC7M635F(K)
CEILING SUSPENDED TYPE	BRC7M56
DUCT CONNECTION MIDDLESTATIC PRESSURE TYPE	BRC4C66
WALL MOUNTED TYPE	BRC7EB519

Wired remote controller has built-in temperature-sensor

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

Facilitates maintenance and repair

- All initial settings can be set from the remote controller. After interior construction is complete, ceiling mounted cassette type can be remotely set without having to use a stepladder to 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 error code display functions. This facilitates service in the unlikely event of a malfunction. *Model name display function applies to BRC1E63 only. (Some models show their model code.)

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.

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

Airflow / swing display	Displays auto-swing operating status and setting position of air discharge angle.
Preset temperature / operation mode display	Displays preset room temperature and operating status (fan, dry, cool).
Programming time display	Operation start and stop time can be set for individual timers up to 72 hours. The LCD also shows when it is time to clean the filter, when changeover is under centralised control, and ventilation/cleaning.
Self-diagnosis function	Monitors operating status within the system covering 40 items, and displays a message to indicate as soon as a malfunction occurs.

System variation to control multiple indoor units

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

Note: ¹ Available combinations: 1) BRC1H63W(K) (main) and BRC1H63W(K) (sub) 2) BRC1E63 (main) and BRC1E63 (sub)
² When a wireless remote controller is used, it is not possible to use 2 wireless remote controllers.
³ Available combinations: Please refer to table*4 on page 46.

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

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

Functions overview

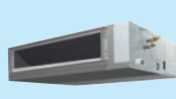
Premium Inverter

RZF series

Cooling only

CEILING MOUNTED CASSETTE TYPE (Round Flow)					
with Streamer					
Indoor unit	 FCTF50-140BV1		 FCF50-140DV1		
	RZF50-71DV1 RZF100-140DY1		RZF50-71DV1 RZF100-140DY1		
Remote controller	Wired	BRC1H63W(K)	BRC1H63W(K)	BRC1E63	—
	Wireless	—	—	—	BRC7M635F(K)

Energy Saving	1	Energy consumption monitoring			●	
	2	Sensing sensor stop mode	▲ Sensing panel	▲ Sensing panel		
	3	Sensing sensor low mode *1	▲ Sensing panel	▲ Sensing panel		
	4	Auto display OFF	●	●	●	
	5	Setpoint auto reset			●	
	6	Setpoint range set	●	●	●	
	7	OFF timer (programmed)			●	
	8	Weekly schedule timer	●	●	●	
	9	ON/OFF timer	● *8	● *8		●
Comfort	10	Circulation airflow			●	
	11	Setback	●	●	●	
	12	Quick start			●	
	13	Individual airflow control	●	●	●	
	14	Infrared presence sensor	▲ Sensing panel	▲ Sensing panel		
	15	Infrared floor sensor	▲ Sensing panel	▲ Sensing panel		
	16	Auto airflow function (Direct air, Draft prevention)	▲ Sensing panel (Draft prevention only)	▲ Sensing panel (Draft prevention only)	▲ Sensing panel	
	17	Auto swing	●	●	●	●
	18	Swing pattern selection	●	●	●	●
	19	Switchable fan speed	● 5 step	● 5 step	● 5 step	● 5 step
	20	Auto airflow rate	●	●	●	●
	21	High fan speed mode				
	22	Two selectable temperature-sensors *2	●	●	●	
	23	High ceiling application	● 3.5 m / 4.2 m	● 3.5 m / 4.2 m	● 3.5 m / 4.2 m	● 3.5 m / 4.2 m
	24	Night quiet operation *3	●		●	
Cleanliness	25	Streamer filter clean unit	●			
	26	Anti-bacterial air filter	●		●	
	27	Mould-proof air filter				
	28	Silver ion anti-bacterial drain pan	●		●	
Work & Servicing	29	Auto grille panel	▲		▲	
	30	Drain pump mechanism	●		●	
	31	Pre-charged for up to 30 m *3	●		●	
	32	Long-life filter	●		●	
	33	Filter sign	●	●	●	●
	34	Low gas pressure detection *3	●		●	
	35	Emergency operation	●		●	
	36	Self-diagnosis function	●	●	●	●
	37	Service contact display			●	
Control	38	Auto-restart	●		●	
	39	Control by 2 remote controllers *4	●	●	●	●
	40	Group control by 1 remote controller	●	●	●	●
	41	External equipment interlock *5	▲ Sensing panel	▲ Sensing panel		
	42	External signal forced OFF and ON/OFF operation	●		●	
	43	Key card and window / door interlock *6	▲	▲		
	44	External command control *7	▲		▲	
	45	Central remote control	●		●	
	46	Interlock control with Heat Reclaim Ventilator	●		●	
	47	DIII-NET communication standard	●		●	
Options	48	UV Streamer air purifier unit			▲	
	49	High-efficiency filter	▲		▲	
	50	Ultra long-life filter	▲		▲	
	51	High performance prefilter (MERV 8 filter)	▲		▲	
	52	Fresh air intake kit	▲		▲	

CEILING SUSPENDED TYPE				DUCT CONNECTION MIDDLE STATIC PRESSURE TYPE			WALL MOUNTED TYPE		
 FHA50-140DV1				 FBA50-140CV1			 FAA76/100BVMAN		
RZF50-71DV1 RZF100-140DY1				RZF50-71DV1 RZF100-140DY1			RZF76CVMN RZF76/100CYMN		
BRC1H63W(K)	BRC1E63	—	—	BRC1H63W(K)	BRC1E63	—	BRC1H63W(K)	BRC1E63	—
—	—	BRC7M56	—	—	—	BRC4C66	—	—	BRC7EB519
1	●			●			●		
2									
3									
4	●	●		●	●		●	●	
5		●			●			●	
6	●	●		●	●		●	●	
7		●			●			●	
8	●	●		●	●		●	●	
9	● *8		●	● *8		●	● *8		●
10									
11	●	●		●	●		●	●	
12		●			●			●	
13									
14									
15									
16									
17	●	●	●				●	●	●
18									
19	● 5 step	● 5 step	● 5 step	● 3 step	● 3 step	● 3 step	● 3 step	● 3 step	● 3 step
20	●	●	●	●	●		●	●	
21								●	
22	●	●		●	●		●	●	
23	● 3.5 m / 4.3 m	● 3.5 m / 4.3 m	● 3.5 m / 4.3 m						
24		●			●			●	
25	▲								
26		●			▲				
27								●	
28					●				
29									
30		▲			●			▲	
31		●			●			●	
32		●			▲				
33	●	●	●	●	●	●	●	●	●
34		●			●			●	
35		●			●			●	
36	●	●	●	●	●	●	●	●	●
37		●			●			●	
38		●			●			●	
39	●	●	●	●	●		●	●	
40	●	●	●	●	●	●	●	●	●
41									
42		●			●			●	
43	▲			▲			▲		
44		▲			▲			▲	
45		●			●			●	
46		●			●			●	
47		●			●			●	
48									
49					▲				
50									
51									
52									

Note: ● : Function is available.
▲ : Function is available with Option.

*1 : Not applicable when group control.

*2 : Applicable when wired remote controller is used.

*3 : For outdoor units.

*4 : Available combinations are in the table*4.

*5 : Adaptor for Wiring (and installation box) is necessary.

*6 : Digital input adaptor (and installation box) is necessary.

*7 : Wiring adaptor for electrical appendices (and installation box) is necessary.

*8 : OFF timer only.

Table *4		Main	
		Wired remote controller	
Sub	Wired	BRC 1H63W(K)	●
		BRC1E63	●
	Wireless	BRC4C* BRC7 C/E/F/G*	
		BRC7M* BRC4M*	●

● Possible

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

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

Energy Saving

1. Energy consumption monitoring

Past power consumption is displayed for the current and previous days as well as in weekly and yearly intervals.

2. Sensing sensor stop mode

When the room is unoccupied, the system stops automatically.

3. Sensing sensor low mode

When the room is unoccupied, the set temperature is shifted automatically.

4. Auto display OFF

While operation is stopping, the LCD display can be turned off. It can be displayed again when any button is pressed.

5. Setpoint auto reset

Even if the set temperature is changed, the new set temperature returns to the previous preset value after a preset duration of time.

6. Setpoint range set

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

7. OFF timer (programmed)

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

8. 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.

9. ON/OFF timer

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

Comfort

10. Circulation airflow

At the start of operation, airflow changes repeatedly between horizontal flow and downward flow (swing during cool operation), and air is sent throughout the room to eliminate uneven temperatures.

11. Setback

Maintains the room temperature in a specific range during unoccupied periods by temporarily starting an air conditioner that had been turned OFF.

12. Quick start

At operation start, capacity priority operation is possible.

13. Individual airflow control

Airflow direction can be individually adjusted for each air discharge outlet to deliver optimal air distribution.

14. Infrared presence sensor

The sensor detects the presence of people in each of the 4 areas.

15. Infrared floor sensor

The sensor detects the floor temperature and automatically adjusts operation of the indoor unit to reduce the temperature difference between the ceiling and the floor.

16. Auto airflow function (Direct air, Draft prevention)

When this function is set, airflow direction can be directed toward or away from people when human presence is detected.

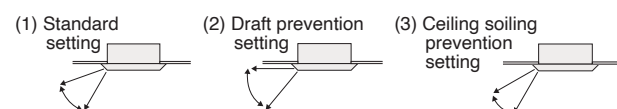
17. Auto swing

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.

18. Swing pattern selection

You can freely set air discharge settings by remote controller.



19. Switchable fan speed

High setting provides maximum reach while low setting minimises drafts.

20. Auto airflow rate

Airflow rate is automatically controlled in accordance with the difference between room temperature and set temperature.

21. High fan speed mode

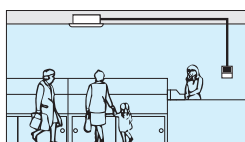
You can increase fan speed approximately 10% higher than the "high" setting.

22. 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.

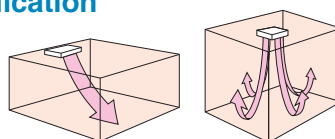
● Use the temperature-sensor in the indoor unit when controlling air conditioning from another room.

Note: Wireless remote controllers have no temperature-sensor.



23. 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.

24. Night quiet operation

Lowers the operation sound of the outdoor unit by changing the compressor frequency and fan speed.

This function is convenient during the night.

Field setting with remote controller enables selection of the time pattern at night.

Setting with BRC1E63 menu enables selection of the period of time freely.

Cleanliness

25. Streamer filter clean unit

Irradiates Streamer when the fan and air conditioning operation are stopped.

Streamer fumigates the cabin and sterilizes the filter.

26. Anti-bacterial air filter

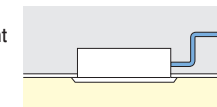
The air filter has an anti-bacterial treatment to help prevent the growth of bacteria and mould on it.

29. Auto grille panel

Grille and air filter cleaning can be performed without need for a stepladder by lowering the grille.

30. Drain pump mechanism

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



31. Pre-charged for up to 30 m

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

32. Long-life filter

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

*For dust concentration of 0.15 mg/m³

33. 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.

Control

38. Auto-restart

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

39. Control by 2 remote controllers

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

*When a wireless remote controller is used, it is not possible to use 2 wireless remote controllers.

40. 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.)

41. External equipment interlock

Human presence is detected by the built-in infrared presence sensor in the sensing panel, and the presence detection signal can be output and interlocked with external equipment. Power conservation is possible through the interlock of external equipment, such as lighting, with the infrared presence sensor.

*Adaptor for Wiring (and installation box) is necessary.

42. External signal forced OFF and ON/OFF operation

The air conditioner can be interlocked with the keycard system and turned ON/OFF by locking and unlocking the room. The air conditioner can be also be turned OFF by the interlock with the ventilation and lighting OFF signal.

*Field setting with remote controller.

Options

48. UV Streamer air purifier unit

Adopts "deep ultraviolet (UVC) LED" which irradiates deep ultraviolet rays with a wavelengths of around 265 nm that have a high sterilizing effect.

49. High-efficiency filter

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

50. Ultra long-life filter

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

*For dust concentration of 0.15 mg/m³

27. Mould-proof air filter

Sanitary filter has mould-resistant treatment.

28. Silver ion anti-bacterial drain pan

A built-in antibacterial treatment that uses silver ion in the drain pan prevents the growth of slime, bacteria, and mould that cause odours and clogging.

34. Low gas pressure detection

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

35. Emergency operation

Even if there is a malfunction elsewhere in the system, the fan or compressor can still be operated. (depending on the malfunction)

36. Self-diagnosis function

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.

37. Service contact display

When installing the unit, registration of the service contact is available to the wired remote controller.

43. Key card and window / door interlock

The air conditioner can be interlocked with the window/door contact signal and turned OFF when the window/door is opened and turned ON when the window/door is closed for energy saving.

* Digital input adaptor (and installation box) is necessary.

44. External command control

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

*Wiring adaptor for electrical appendices (and installation box) is necessary.

45. Central remote control

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

46. Interlock control with Heat Reclaim Ventilator

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

47. DIII-NET communication standard

Connection to a centralised control system is available without need for an optional adaptor.

51. High performance prefilter (MERV 8 filter)

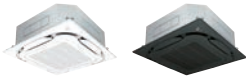
This filter can catch fine particles that cannot be removed by the existing prefilter, capturing 97% of 1.0-3.0 μm particles and 99% of 3.0-10 μm particles when air passes through the filter 10 times.

52. Fresh air intake kit

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

CEILING MOUNTED CASSETTE TYPE <Round Flow> with Streamer (1 Phase)

CEILING MOUNTED CASSETTE TYPE <Round Flow> (1 Phase)



			50	60	71		
Model Name	Indoor unit		FCTF50BV1	FCTF60BV1	FCTF71BV1		
	Outdoor unit		FCF50DV1	FCF60DV1	FCF71DV1		
Power supply	Outdoor unit		1 Phase, 220-240V, 50Hz				
Cooling capacity ^{1,2} Rated (Min. - Max.)		kW	5.0 (2.3-5.6)	6.0 (2.6-6.3)	7.1 (3.2-8.0)		
		Btu/h	17,100 (7,800-19,100)	20,500 (8,900-21,500)	24,200 (10,900-27,300)		
Power consumption	Cooling ¹	kW	1.01	1.38	1.73		
COP		kW/kW	4.95	4.35	4.10		
CSPF		Wh/Wh	7.60	7.50	7.10		
Indoor unit	Colour	Unit	——				
		Decoration panel	Fresh white				
	Airflow rate (H / HM / M / ML / L)	m³/min	23 / 21 / 18.5 / 16 / 13.5				
		cfm	812 / 741 / 653 / 565 / 477				
	Sound pressure level ³ (H / HM / M / ML / L)		dB(A)	37 / 34.5 / 32 / 29.5 / 27.5			
	Dimensions (H×W×D)	Unit	mm	256×840×840			
		Decoration panel	mm	50×950×950			
	Machine weight	Unit	kg	22			
		Decoration panel	kg	5.5			
	Certified operation range		°CWB	14 to 25			
Outdoor unit	Colour		Ivory white				
	Coil	Type	Micro channel + Zn spray				
		Compressor	Type	Hermetically sealed swing type			
	Refrigerant charge (R32)		kg	1.3			
	Sound pressure level ³		dB(A)	48			
	Dimensions (H×W×D)		mm	608×845×300			
	Machine weight		kg	41			
	Certified operation range		°CDB	21 to 46			
	Piping connections	Liquid (Flare)		mm	ø9.5		
		Gas (Flare)		mm	ø15.9		
Drain		Indoor unit	mm	VP25 (I.D. ø25×O.D. ø32)			
	Outdoor unit ⁴	mm	Connectable hose I.D. ø16				
Max. interunit piping length		m	50 (Equivalent length 70)				
Max. installation height difference		m	30				
Heat insulation			Both liquid and gas piping				

CEILING MOUNTED CASSETTE TYPE <Round Flow> with Streamer (3 Phase)

CEILING MOUNTED CASSETTE TYPE <Round Flow> (3 Phase)

			100	125	140		
Model Name	Indoor unit		FCTF100BV1	FCTF125BV1	FCTF140BV1		
	Outdoor unit		FCF100DV1	FCF125DV1	FCF140DV1		
Power supply	Outdoor unit		3 Phase, 380-415V, 50Hz				
Cooling capacity ^{1,2} Rated (Min. - Max.)		kW	10.0 (5.0-11.2)	12.5 (5.7-14.0)	14.0 (6.2-15.5)		
		Btu/h	34,100 (17,100-38,200)	42,700 (19,500-47,800)	47,800 (21,200-52,900)		
Power consumption	Cooling ¹	kW	2.51	3.26	4.07		
COP		kW/kW	3.98	3.83	3.44		
CSPF		Wh/Wh	6.60	6.30	5.70		
Indoor unit	Colour	Unit	————				
		Decoration panel	Fresh white				
	Airflow rate (H / HM / M / ML / L)	m³/min	34.5 / 31 / 27.5 / 24 / 20		36.5 / 33.5 / 30 / 26.5 / 23		
		cfm	1,218 / 1,094 / 971 / 847 / 706		1,288 / 1,183 / 1,059 / 935 / 812		
	Sound pressure level ³ (H / HM / M / ML / L)	dB(A)	45 / 41.5 / 38 / 35 / 32.5		46 / 43.5 / 41 / 38.5 / 36		
	Dimensions (H×W×D)	Unit	mm298×840×840				
		Decoration panel	mm50×950×950				
	Machine weight	Unit	kg	24		26	
		Decoration panel	kg	5.5			
	Certified operation range		°CWB	14 to 25			
Outdoor unit	Colour		Ivory white				
	Coil	Type	Micro channel + Zn spray				
		Compressor	Type	Hermetically sealed swing type			
	Refrigerant charge (R32)	Motor output	kW	1.6		3.3	
		kg	1.9 (Charged for 30 m)		2.3 (Charged for 30 m)		
	Sound pressure level ³	Cooling	dB(A)	52		53	54
		Night quiet mode	dB(A)	45			
	Dimensions (H×W×D)		mm	990×940×320			
	Machine weight		kg	58		73	
	Certified operation range		°CDB	21 to 46			
Piping connections	Liquid (Flare)		mmø9.5				
	Gas (Flare)		mmø15.9				
	Drain	Indoor unit	mmVP25 (I.D. ø25×O.D. ø32)				
		Outdoor unit ⁴	mmConnectable hose I.D. ø25				
Max. interunit piping length		m	50 (Equivalent length 70)				
Max. installation height difference		m	30				
Heat insulation			Both liquid and gas piping				

Note : ¹ Rated cooling capacities are based on the following conditions: Indoor temp., 27°CDB, 19°CWB; outdoor temp. 35°CDB, 24°CWB. Equiv. refrigeration piping, 7.5 m (horizontal).
² Capacities are net, including a deduction for cooling for indoor fan motor heat.
³ The operation sound is measured in anechoic chamber. If it is measured under the actual installation conditions, it is normally over the set value due to environmental noise and sound reflection.
⁴ Drain socket is necessary.

CEILING SUSPENDED TYPE (1 Phase)



				50	60	71			
Model Name	Indoor unit			FHA50DV1	FHA60DV1	FHA71DV1			
	Outdoor unit			RZF50DV1	RZF60DV1	RZF71DV1			
Power supply	Outdoor unit			1 Phase, 220-240V, 50Hz					
Cooling capacity ^{1,2} Rated (Min. - Max.)		kW	5.0 (2.3-5.6)				6.0 (2.6-6.3)	7.1 (3.2-8.0)	
		Btu/h	17,100 (7,800-19,100)				20,500 (8,900-21,500)	24,200 (10,900-27,300)	
Power consumption		Cooling ¹	kW	1.17				1.55	1.95
COP			kW/kW	4.27				3.87	3.64
CSPF			Wh/Wh	6.60				6.25	6.34
Indoor unit	Colour		White						
	Airflow rate (H / HM / M / ML / L)		m³/min	15 / 13.5 / 12 / 11 / 10				20.5 / 18.8 / 17 / 15.5 / 14	
			cfm	530 / 477 / 424 / 388 / 353				724 / 664 / 600 / 547 / 494	
	Sound pressure level ³ (H / HM / M / ML / L)		dB(A)	37 / 36 / 35 / 33.5 / 32				38 / 37 / 36 / 35 / 34	
	Air filter		Resin net (with mould resistance)						
	Dimensions (H×W×D)		mm	235×960×690				235×1,270×690	
	Machine weight		kg	25				32	
	Certified operation range		°CWB	14 to 25					
	Outdoor unit	Colour		Ivory white					
		Coil	Type	Micro channel + Zn spray					
Compressor			Type	Hermetically sealed swing type					
		Motor output	kW	1.3					
Refrigerant charge (R32)		kg	1.2 (Charged for 30 m)						
Sound pressure level ³		Cooling	dB(A)	48					
		Night quiet mode	dB(A)	44					
Dimensions (H×W×D)		mm	608×845×300						
Machine weight		kg	41						
Certified operation range		°CDB	21 to 46						
Piping connections	Liquid (Flare)		mm	ø9.5					
	Gas (Flare)		mm	ø15.9					
	Drain	Indoor unit	mm	VP20 (I.D. ø20×O.D. ø26)					
		Outdoor unit ⁴	mm	Connectable hose I.D. ø16					
Max. interunit piping length			m	50 (Equivalent length 70)					
Max. installation height difference			m	30					
Heat insulation				Both liquid and gas piping					

CEILING SUSPENDED TYPE (3 Phase)

			100		125		140		
Model Name	Indoor unit		FHA100DV1		FHA125DV1		FHA140DV1		
	Outdoor unit		RZF100DY1		RZF125DY1		RZF140DY1		
Power supply	Outdoor unit		3 Phase, 380-415V, 50Hz						
Cooling capacity ^{1,2} Rated (Min. - Max.)			10.0 (5.0-11.2)		12.5 (5.7-14.0)		14.0 (6.2-15.5)		
			34,100 (17,100-38,200)		42,700 (19,500-47,800)		47,800 (21,200-52,900)		
Power consumption	Cooling ¹	kW	2.60		3.72		4.70		
COP		kW/kW	3.85		3.36		2.98		
CSPF		Wh/Wh	6.30		5.52		5.27		
Indoor unit	Colour		White						
	Airflow rate (H / HM / M / ML / L)	m³/min	28 / 26 / 24 / 22 / 20		31 / 29 / 27 / 25 / 23		34 / 31.5 / 29 / 26.5 / 24		
		cfm	988 / 918 / 847 / 777 / 706		1,094 / 1,024 / 953 / 883 / 812		1,200 / 1,112 / 1,024 / 935 / 847		
	Sound pressure level ² (H / HM / M / ML / L)	dB(A)	42 / 40 / 38 / 36 / 34		44 / 42.5 / 41 / 39 / 37		46 / 44 / 42 / 40 / 38		
	Air filter		Resin net (with mould resistance)						
	Dimensions (H×W×D)	mm	235×1,590×690						
	Machine weight	kg	38						
	Certified operation range		°CWB	14 to 25					
Outdoor unit	Colour		Ivory white						
	Coil	Type	Micro channel + Zn spray						
		Type	Hermetically sealed swing type						
	Compressor	Motor output	kW	1.6		3.3			
		Refrigerant charge (R32)	kg	1.9 (Charged for 30 m)		2.3 (Charged for 30 m)			
	Sound pressure level ³	Cooling	dB(A)	52		53		54	
		Night quiet mode	dB(A)	45		45			
	Dimensions (H×W×D)	mm	990×940×320						
	Machine weight	kg	58		73				
	Certified operation range	°CDB	21 to 46						
Piping connections	Liquid (Flare)	mm	ø9.5						
	Gas (Flare)	mm	ø15.9						
	Drain	Indoor unit	mm	VP20 (I.D. ø20×O.D. ø26)					
		Outdoor unit ⁴	mm	Connectable hose I.D. ø25					
Max. interunit piping length			m	50 (Equivalent length 70)					
Max. installation height difference			m	30					
Heat insulation			Both liquid and gas piping						

DUCT CONNECTION MIDDLE STATIC PRESSURE TYPE (1 Phase)

				50	60	71
Model Name	Indoor unit			FBA50CV1	FBA60CV1	FBA71CV1
	Outdoor unit			RZF50DV1	RZF60DV1	RZF71DV1
Power supply	Indoor unit			1 Phase, 220-240V, 50Hz		
	Outdoor unit			1 Phase, 220-240V, 50Hz		
Cooling capacity ^{1,2} Rated (Min. - Max.)		kW	5.0 (2.3-5.6)		6.0 (2.6-6.3)	7.1 (3.2-8.0)
		Btu/h	17,100 (7,800-19,100)		20,500 (8,900-21,500)	24,200 (10,900-27,300)
Power consumption	Cooling ¹	kW	1.26		1.66	2.23
COP		kW/kW	3.97		3.61	3.18
CSPF		Wh/Wh	6.16		5.92	5.48
Indoor unit	Colour			—		
	Fan	Airflow rate (H / M / L)		18 / 15 / 12.5		23 / 19.5 / 16
				635 / 530 / 441		812 / 688 / 565
	External static pressure ³		Pa		Rated 50 (50-150)	
	Sound pressure level ⁴ (H / M / L)		dB(A)	35 / 33 / 31		38 / 35 / 33
	Sound power level (H)		dB(A)	63		66
	Air filter ⁵			—		
	Dimensions (H×W×D)		mm	245×1,000×800		
	Machine weight		kg	37		
	Certified operation range		°CWB	14 to 25		
Outdoor unit	Colour			Ivory white		
	Coil	Type		Micro channel + Zn spray		
		Compressor		Hermetically sealed swing type		
	Motor output		kW	1.3		
	Refrigerant charge (R32)		kg	1.2 (Charged for 30 m)		
	Sound pressure level ³	Cooling	dB(A)	48		
		Night quiet mode	dB(A)	44		
	Dimensions (H×W×D)		mm	608×845×300		
	Machine weight		kg	41		
	Certified operation range		°CDB	21 to 46		
Piping connections	Liquid (Flare)		mm	ø9.5		
	Gas (Flare)		mm	ø15.9		
	Drain	Indoor unit	mm	VP25 (I.D. ø25×O.D. ø32)		
		Outdoor unit ⁶	mm	Connectable hose I.D. ø16		
	Max. interunit piping length		m	50 (Equivalent length 70)		
Max. installation height difference		m	30			
Heat insulation				Both liquid and gas piping		

DUCT CONNECTION MIDDLE STATIC PRESSURE TYPE (3 Phase)

				100	125	140
Model Name	Indoor unit			FBA100CV1	FBA125CV1	FBA140CV1
	Outdoor unit			RZF100DY1	RZF125DY1	RZF140DY1
Power supply	Indoor unit			1 Phase, 220-240V, 50Hz		
	Outdoor unit			3 Phase, 380-415V, 50Hz		
Cooling capacity ^{1,2} Rated (Min. - Max.)			kW	10.0 (5.0-11.2)	12.5 (5.7-14.0)	14.0 (6.2-15.5)
			Btu/h	34,100 (17,100-38,200)	42,700 (19,500-47,800)	47,800 (21,200-52,900)
Power consumption	Cooling ¹	kW	3.14	4.34	5.74	
COP		kW/kW	3.18	2.88	2.44	
CSPF		Wh/Wh	5.39	5.05	4.72	
Indoor unit	Colour			—		
	Fan	Airflow rate (H / M / L)	m³/min	32 / 27 / 22.5	36 / 30.5 / 25	
			cfm	1,130 / 953 / 794	1,271 / 1,077 / 883	
		External static pressure ³	Pa	Rated 50 (50-150)		
	Sound pressure level ⁴ (H / M / L)		dB(A)	38 / 35.5 / 33	40 / 37.5 / 35	
	Sound power level (H)		dB(A)	66	68	
	Air filter ⁵			—		
	Dimensions (H×W×D)		mm	245×1,400×800		
	Machine weight		kg	47		
	Certified operation range		°CWB	14 to 25		
Outdoor unit	Colour			Ivory white		
	Coil	Type	Micro channel + Zn spray			
		Compressor	Type	Hermetically sealed swing type		
		Motor output	kW	1.6	3.3	
	Refrigerant charge (R32)		kg	1.9 (Charged for 30 m)	2.3 (Charged for 30 m)	
	Sound pressure level ³	Cooling	dB(A)	52	53	54
		Night quiet mode	dB(A)	45		
	Dimensions (H×W×D)		mm	990×940×320		
	Machine weight		kg	58	73	
	Certified operation range		°CDB	21 to 46		
Piping connections	Liquid (Flare)		mm	ø9.5		
	Gas (Flare)		mm	ø15.9		
	Drain	Indoor unit	mm	VP25 (I.D. ø25×O.D. ø32)		
		Outdoor unit ⁶	mm	Connectable hose I.D. ø25		
Max. interunit piping length			m	50 (Equivalent length 70)		
Max. installation height difference			m	30		
Heat insulation				Both liquid and gas piping		

Note : ¹ Rated cooling capacities are based on the following conditions: Indoor temp., 27°CDB, 19°CWB; outdoor temp. 35°CDB, 24°CWB. Equiv. refrigeration piping, 7.5 m (horizontal).

² Capacities are net, including a deduction for cooling for indoor fan motor heat.

³ External static pressure is changeable in 11 stages by remote controller.

⁴ The operation sound is measured in anechoic chamber. If it is measured under the actual installation conditions, it is normally over the set value due to environmental noise and sound reflection.

⁵ Air filter is not standard accessory, but please mount it in the duct system of the suction side. Select its dust collection efficiency (gravity method) 50% or more.

⁶ Drain socket is necessary.

WALL MOUNTED TYPE (1 Phase, 3 Phase)

			76	76	100
Model Name	Indoor unit		FAA76BVMAN	FAA76BVMAN	FAA100BVMAN
	Outdoor unit		RZF76CVMN	RZF76CYMN	RZF100CYMN
Power supply	Outdoor unit		1 Phase, 220-240V, 50Hz		3 Phase, 380-415V, 50Hz
Cooling capacity ^{1,2} Rated (Min. - Max.)		kW	7.6 (3.2-7.9)		10.0 (5.0-10.5)
		Btu/h	25,900 (10,900-26,900)		34,100 (17,100-35,800)
Power consumption	Cooling ¹	kW	2.30		3.60
COP		kW/kW	3.30		2.78
Indoor unit	Colour		Fresh white		
	Airflow rate (H / M / L)	m³/min	16.9 / 14.9 / 12.9		23.4 / 20.4 / 17.4
		cfm	597 / 526 / 455		826 / 720 / 614
	Sound pressure level ³ (H / M / L)	dB(A)	45 / 42 / 40		49 / 45 / 41
	Dimensions (H×W×D)	mm	290×1,050×238		340×1,200×240
	Machine weight	kg	13		17
	Certified operation range		°CWB 14 to 25		
	Outdoor unit	Colour		Ivory white	
Coil		Type	Micro channel		
		Compressor	Type	Hermetically sealed swing type	
Motor output		kW	1.3	1.6	
Refrigerant charge (R32)		kg	1.2 (Charged for 30 m)	1.3 (Charged for 30 m)	
Sound pressure level ³		Cooling	dB(A)	48	49
		Night quiet mode	dB(A)	44	45
Dimensions (H×W×D)		mm	595×845×300	695×930×350	
Machine weight		kg	41	48	
Certified operation range		°CDB 5 to 46			
Piping connections	Liquid (Flare)		mm ø9.5		
	Gas (Flare)		mm ø15.9		
	Drain	Indoor unit	mm VP13 (I.D. ø13×O.D. ø18)		
		Outdoor unit ⁴	mm Connectable hose I.D. ø16		
Max. interunit piping length		m	50 (Equivalent length 70)		
Max. installation height difference		m	30		
Heat insulation			Both liquid and gas piping		

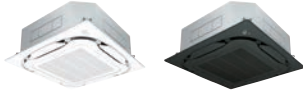
Note : ¹ Rated cooling capacities are based on the following conditions: Indoor temp., 27°CDB, 19°CWB; outdoor temp. 35°CDB, 24°CWB. Equiv. refrigeration piping, 7.5 m (horizontal).

² Capacities are net, including a deduction for cooling for indoor fan motor heat.

³ The operation sound is measured in anechoic chamber. If it is measured under the actual installation conditions, it is normally over the set value due to environmental noise and sound reflection.

⁴ Drain socket is necessary.

Indoor unit
CEILING MOUNTED CASSETTE TYPE <Round Flow> with Streamer
CEILING MOUNTED CASSETTE TYPE <Round Flow>



No.	Category	Name of option				Kit name				Required accessory-1	Required accessory-2	Note
						with Streamer						
						NEW FCTF 50/60/71BV1	NEW FCTF 100/125/140BV1	NEW FCF 50/60/71DV1	NEW FCF 100/125/140DV1			
1	Panel	Decoration panel	Standard panel	Fresh white	BYCQ125EAF							
2				Black	BYCQ125EAK							
3			Standard panel with Sensing	Fresh white	BYCQ125EEF							
4				Black	BYCQ125EEK							
5			Designer panel	Fresh white	BYCQ125EAPF						*1,14	
6			Auto grille panel	Fresh white	BYCQ125EBSF						*2,3	
7		Sealing material of air discharge outlet	For usage of 3, 4-way flow		—		KDBH551C160				*4	
8			For usage of 2-way flow		—		KDBH552C160				*4	
9		Panel spacer			KDB55J160F							
10	IAQ	Fresh air intake kit	Chamber type	Without T-duct joint	KDDP55C160				KDDP55C160-1	KDDP55C160-2	*4,5,6,10	
11				With T-duct joint	KDDP55C160K				KDDP55C160-1	KDDP55C160K2	*4,5,6,10	
12			Direct installation type		KDDP55X160A						*7	
13		Branch duct chamber			—		KDJP55C80	KDJP55C160			*4	
14		Filter chamber			KDDFP55C160							
15		UV Streamer air purifier unit (UV-chamber)			—		BAEF125AW1				*13,14	
16		Replacement pleated filter for UV streamer air purifier unit (MERV13 filter)			—		BAF55A125		BAEF125AW1		*13,14	
17	Filter	Ultra long-life filter unit (Including filter chamber)			KAF555D160						*12	
18		Replacement ultra long-life filter			KAF550D160				KDDFP55C160		*12	
19		Replacement long-life filter			KAF5511D160							
20		Replacement long-life filter	Auto grille panel		KAF5512D160							
21		High-efficiency filter unit (Including filter chamber)	Colorimetric method 65%		KAF556D80	KAF556D160	KAF556D80	KAF556D160			*12,14	
22			Colorimetric method 90%		KAF557D80	KAF557D160	KAF557D80	KAF557D160			*12,14	
23		Replacement high-efficiency filter	Colorimetric method 65%		KAF552D80	KAF552D160	KAF552D80	KAF552D160	KDDFP55C160		*12,14	
24			Colorimetric method 90%		KAF553D80	KAF553D160	KAF553D80	KAF553D160	KDDFP55C160		*12,14	
25		High performance prefilter (MERV8 filter)			BAF552A160						*12	
26	Humidity	Insulation kit for high humidity			KDTP55K80B	KDTP55K160B	KDTP55K80B	KDTP55K160B			*8,15	
27	Remote controller	Stylish remote controller	Wired type	White	BRC1H63W						*11	
28				Black	BRC1H63K						*11	
29		Navigation remote controller	Wired type		—		BRC1E63				*11	
30		Remote controller	Wireless type	Cooling only	Fresh white	—		BRC7M635F				
31					Black	—		BRC7M635K				
32	Control	Unified ON/OFF controller			DCS301BA61						*9	
33		Central remote controller			DCS302CA61						*9	
34		intelligent touch controller			DCS601C51						*9	
35		Schedule timer			DST301BA61						*9	
36		Equipment	Adaptor for wiring			BRP11B62				KRP1H98A		
37	Wiring adaptor for electrical appendices			KRP4AA53				KRP1H98A				
38	Digital input adaptor			BRP7A52				KRP1H98A				
39	Installation box for adapter PCB			KRP1H98A								
40	Remote controller Sensor	Remote sensor (for indoor temperature)			BRCS01A-5							
41	Wireless	Wireless LAN connecting adaptor			BRP072C42-1							

Note:

*1. When installing designer panel, body height (ceiling required dimension) is 42 mm higher than standard panel. Designer panel cannot operate 2 and 3-way flow.

*2. When installing auto grille panel, body height (ceiling required dimension) is 55 mm higher than standard panel.

*3. A dedicated remote controller for the auto grille panel is included for lowering and raising the suction grille.

*4. Circulation airflow is not available with this option.

*5. When installing a fresh air intake kit (chamber type), two air outlet corners are closed.

*6. 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 sensing.

*7. The volume of fresh air for direct installation type is approximately 1% of the indoor unit airflow. The chamder type is recommended when more fresh air is necessary.

*8. Please use for cases when the temperature / humidity inside ceiling may exceed 30°C, 80%RH.

*9. The indoor unit is equipped standardly with the interface adaptor for SkyAir series. An option is unnecessary.

*10. Please order using the names of both components instead of set name.

*11. Wiring for wired remote controller should be obtained locally.

*12. This option cannot apply with Designer panel and Auto grille panel.

*13. This option cannot apply with Designer panel, Standard panel (Black), Standard panel with Sensing (Black), Sealing material of air discharge outlet, Insulation kit for high humidity, and kit / filters that require a chamber (Fresh air intake kit Chamber type, High-efficiency filter unit, Ultra long-life filter unit, Branch duct chamber).

*14. This option cannot apply when 2 and 3-way flow by using Sealing material of air discharge outlet.

*15. For a panel and an option with a chamber, such as a Designer panel, Auto grille panel, UV Streamer air purifier unit, Ultra long-life filter unit, High-efficiency filter unit, and Fresh air intake kit chamber type, it is necessary to add insulation that is either glass wool or polyethylene foam with a thickness of 10 mm or more to the chamber area under conditions where an Insulation kit for high humidity is used.

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

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

All round flow•4-way flow

Optional accessory parts		Designer panel	Auto grille panel	Panel spacer ¹	Fresh air intake kit (Chamber type) ^{1,2}	Fresh air intake kit (Direct installation type)	Insulation kit for high humidity	UV Streamer air purifier unit	Streamer filter clean unit (FCTF/FCTA series)	High-efficiency filter unit ²	Ultra long-life filter unit ²
Independently installable optional parts											
Panel/grille related	Designer panel		X	O	O	O	O ⁴	X	O	X	X
	Auto grille panel	X		O	O	O	O ⁴	O	O	X	X
	Panel spacer ¹	O	O		O	O	X	O	O	O	O
Auxillary function related	Fresh air intake kit (Chamber type) ^{1,2}	O	O	O		X	O ⁴	X	O	O	O
	Fresh air intake kit (Direct installation type)	O	O	O	X		O	O	O	O	O
	Insulation kit for high humidity	O ⁴	O ⁴	X	O ⁴	O		O ⁴	O	O ⁴	O ⁴
IEQ related	UV Streamer air purifier unit	X	O	O	X	O	O ⁴		X	X	X
	Streamer filter clean unit (FCTF/FCTA series)	O	O	O	O	O	O	X		O	O
Filter related	High-efficiency filter unit ²	X	X	O	O	O	O ⁴	X	O		X
	Ultra long-life filter unit ²	X	X	O	O	O	O ⁴	X	O	X	

3-way flow•2-way flow⁶

Optional accessory parts		Designer panel	Auto grille panel	Panel spacer ^{1,3}	Fresh air intake kit (Chamber type) ^{1,2}	Fresh air intake kit (Direct installation type)	Insulation kit for high humidity	UV Streamer air purifier unit	Streamer filter clean unit (FCTF/FCTA series)	High-efficiency filter unit ²	Ultra long-life filter unit ²
Independently installable optional parts											
Panel/grille related	Auto grille panel	X		△	O	O	O ⁴	X	X	X	X
	Panel spacer ^{1,3}	X	△		△	△	X	X	X	X	△
Auxillary function related	Fresh air intake kit (Chamber type) ^{1,2}	X	O	△		X	X	X	X	X	O
	Fresh air intake kit (Direct installation type)	X	O	△	X		O	X	X	X	O
	Insulation kit for high humidity	X	O ⁴	X	X	O		X	X	X	X
Filter related	Ultra long-life filter unit ²	X	X	△	O	O	X	X	X	X	

Branch duct connection

Optional accessory parts		Designer panel	Auto grille panel	Panel spacer ¹	Fresh air intake kit (Chamber type) ^{1,2}	Fresh air intake kit (Direct installation type)	Insulation kit for high humidity	UV Streamer air purifier unit	Streamer filter clean unit (FCTF/FCTA series)	High-efficiency filter unit ²	Ultra long-life filter unit ²
Independently installable optional parts											
Branch duct chamber ¹	1-way branch / unit 3-way flow	O	O	O	O	O ⁵	X	X	X	X	O
	2-way branch / unit 2-way flow	X	O	X	O	O ⁵	X	X	X	X	O
	1-way branch / unit 2-way flow	X	O	X	O	O ⁵	X	X	X	X	O

Note:

1. In some cases, depending on how the unit is embedded in the ceiling, use of Branch ducts and Fresh air intake kit 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. When Branch duct chamber and Fresh air intake kit (Chamber type) are used, circulation airflow is not available.

2. When two different types of optional chambers are used together, a Fresh air intake kit must be installed in the upper position.

3. It is not possible to use Panel spacers in a 2-way flow installation.(△)

4. For a panel and an option with a chamber, such as a Designer panel, Auto grille panel, UV Streamer air purifier unit, Ultra long-life filter unit, High-efficiency filter unit, and Fresh air intake kit chamber type, it is necessary to add insulation that is either glass wool or polyethylene foam with a thickness of 10 mm or more to the chamber area under conditions where an Insulation kit for high humidity is used.

5. It is not possible to install a Branch duct on the same side to which a Fresh air intake kit (Direct installation type) is installed.

6. When 3-way or 2-way flow is selected, circulation airflow is not available.

CEILING SUSPENDED TYPE



No.	Category	Name of option			Kit name			Required accessory-1	Required accessory-2	Note
					NEW FHA 50/60DV1	NEW FHA 71DV1	NEW FHA 100/125/140DV1			
1	Filter	Replacement long-life filter	Resin net		KAF501B56	KAF501B80	KAF501B160			
2	Drain pump	Drain pump kit			KDU50R160					
3		L-type piping kit (for upward direction)			KHFP5N160					
4	IAQ	Streamer filter clean unit			BAPWS55A61			BERPW50A61	BRC1H63W/K	*4,5
5		Mounting kit for streamer option			BERPW50A61					
6	Remote controller	Stylish remote controller	Wired type	White	BRC1H63W					*1
7				Black	BRC1H63K					*1
8		Navigation remote controller	Wired type	BRC1E63					*1	
9		Remote controller	Wireless type	Cooling only	BRC7M56					
10	Control	Central remote controller			DCS302CA61					*2
11		Unified ON/OFF controller			DCS301BA61					*2
12		Schedule timer			DST301BA61					*2
13		intelligent touch controller			DCS601C51					*2
14	Equipment	Adaptor for wiring			BRP11B61-1					
15		Wiring adaptor for electrical appendices			KRP4AA52			KRP1D93A		*3
16		Digital input adaptor			BRP7A52			KRP1D93A		*3
17		Adaptor box mounting plate			KKSAP50A56	—				
18		Installation box for adaptor PCB			KRP1D93A					
19		Electrical box with earth terminal (3 blocks)			KJB311AA					
20		Electrical box with earth terminal (2 blocks)			KJB212AA					
21	Remote controller Sensor	Remote sensor (for indoor temperature)			BRCS01A-6					
22	Wireless	Wireless LAN connecting adaptor			BRP072C42-1					

Note :

*1. Wiring for wired remote controller should be obtained locally.

*2. The indoor unit is equipped standardly with the interface adaptor for SkyAir series. An option is unnecessary.

*3. Installation box for adaptor PCB (KRP1D93A) is necessary.

*4. This option is available only when a Stylish remote controller (BRC1H63W(K)) is connected.

*5. Mounting kit for Streamer option (BERPW50A61) is necessary.

DUCT CONNECTION MIDDLE STATIC PRESSURE TYPE



No.	Category	Name of option		Kit name		Required accessory-1	Note
				NEW FBA 50/60/71CV1	NEW FBA 100/125/140CV1		
1	Panel	Service panel	Fresh white	KTBJ25K80F	KTBJ25K160F		
2	Filter	Long-life filter		KAF631C80	KAF631C160		*1
3		High-efficiency filter	65%	KAF632C80	KAF632C160		*1
4			90%	KAF633C80	KAF633C160		*1
5		Filter chamber (for rear suction)		KDDFP63B80	KDDFP63B160		*1
6	Airflow	Air discharge adaptor		KDAP25A71A	KDAP25A140A		
7		Shield plate for side plate		KDBD63A160			
8	Remote controller	Stylish remote controller	Wired type	White	BRC1H63W		*2
9				Black	BRC1H63K		*2
10		Navigation remote controller	Wired type		BRC1E63		*2
11		Remote controller	Wireless type	Cooling only	BRC4C66		
12	Control	Central remote controller		DCS302CA61			*6
13		Unified ON/OFF controller		DCS301BA61			*6
14		Schedule timer		DST301BA61			*6
15		intelligent touch controller		DCS601C51			*6
16	Equipment	Adaptor for wiring		BRP11B62		KRP4A98	*3
17		Wiring adaptor for electrical appendices(2)		KRP4AA51		KRP4A98	*3
18		Digital input adaptor		BRP7A51		KRP4A98	*3
19		Mounting plate for adaptor PCB		KRP4A98			*4,5
20	Remote controller Sensor	Remote sensor (for indoor temperature)		BRCS01A-4			
21	Wireless	Wireless LAN connecting adaptor		BRP072C42-1			

Note:

*1. If installing high efficiency filter and long-life filter to the unit, filter chamber is required.

*2. Wiring for wired remote controller should be obtained locally.

*3. Mounting plate (KRP4A98) is necessary .

*4. Up to 2 adaptors can be fixed for each mounting plate.

*5. Only one mounting plate can be installed for each indoor unit.

*6. The indoor unit is equipped standardly with the interface adaptor for SkyAir series. An option is unnecessary.

WALL MOUNTED TYPE



No.	Category	Name of option			Kit name		Required accessory-1	Required accessory-2	Note
					FAA76BVMAN	FAA100BVMAN			
1	Drain pump	Drain-up kit			K-KDU572KVE				
2	Remote controller	Stylish remote controller	Wired type	White	BRC1H63W				*1
3				Black	BRC1H63K				*1
4		Navigation remote controller	Wired type		BRC1E63				*1
5		Remote controller	Wireless type	Cooling only	BRC7EB519				
6	Control	Central remote controller			DCS302CA61				*2
7		Unified ON/OFF controller			DCS301BA61				*2
8		Schedule timer			DST301BA61				*2
9		intelligent touch controller			DCS601C51				*2
10	Equipment	Wiring adaptor for electrical appendices			KRP4AA51		KRP4B93		*3
11		Digital input adaptor			BRP7A51		KRP4B93		*3
12		Installation box for adaptor PCB			KRP4B93				
13		Electrical box with earth terminal (3 blocks)			KJB311AA				
14		Electrical box with earth terminal (2 blocks)			KJB212AA				
15	Remote controller Sensor	Remote sensor (for indoor temperature)			BRCS01A-4				
16	Wireless	Wireless LAN connecting adaptor			BRP072C42-1				

Note :

*1. Wiring for wired remote controller should be obtained locally.

*2. The indoor unit is equipped standardly with the interface adaptor for SkyAir series. An option is unnecessary.

*3. Installation box for adaptor PCB (KRP4B93) is necessary.

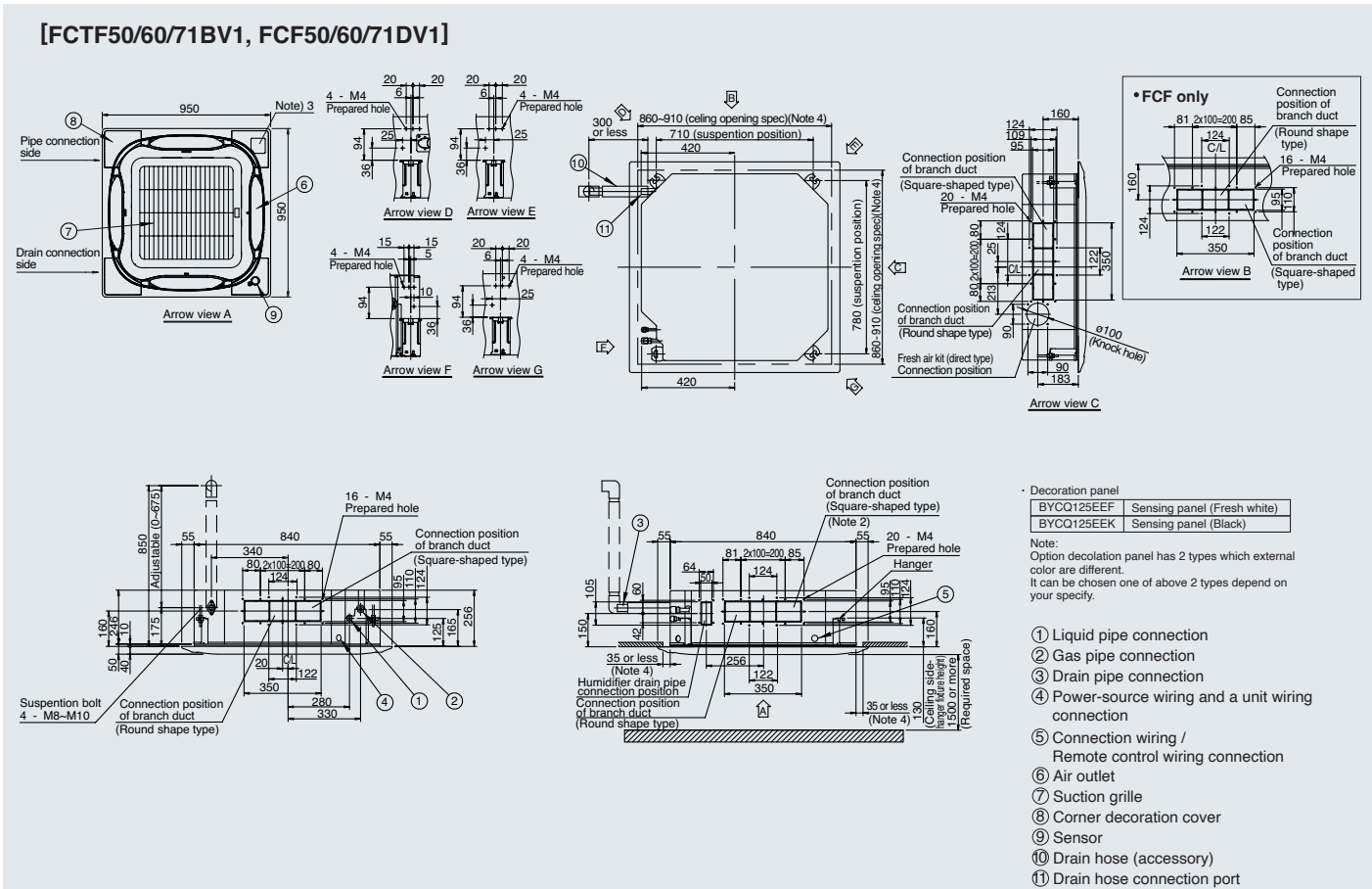
Outdoor unit

Premium Inverter

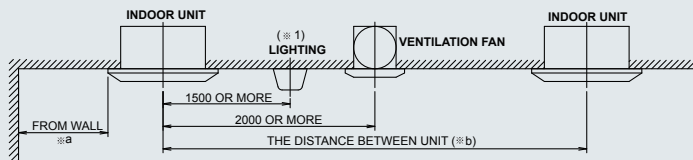
RZF series

No.	Name of option	Kit name		
				
		1 Phase	3 Phase	
		NEW RZF50/60/71DV1 RZF76CVMN	—	—
		—	RZF76/100CYMN	NEW RZF100/125/140DY1
1	Central drain plug	KKP014A4	KKP937A4	KKPJ5H280
2	Fixture for preventing overturning	—		KKTP5B112
3	Wire fixture for preventing overturning	—		K-KYZP15C
4	Air direction adjustment grille	KPW937F4	KPW5G112	

CEILING MOUNTED CASSETTE TYPE / Standard panel with Sensing



- Note:
1. 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.
2. In case of having option part built-in, please refer outside drawing of option part.
- | | | |
|--|-----------------|---------|
| Fresh air intake kit..... | inspection hole | Need |
| Natural evaporate type humidifier..... | inspection hole | Need |
| Air purifier unit..... | inspection hole | No Need |
| High efficiency filter unit..... | inspection hole | No Need |
| Branch duct chamber..... | inspection hole | No Need |
- (both angle duct • circle duct)
3. In case of using wireless remote controller. this position will be a signal receiver.
Refer to the drawing of wireless remote controller in detail.
4. Though the installation is acceptable up to maximum of 910 mm 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.
5. When the temperature and humidity in the ceiling exceed 30°C and 80% RH 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.
6. 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.
7. If put vent hole, lighting, equipment near the air flow disturb equipment, ceiling surface may get dirty therefore shall install following to diagram as below.

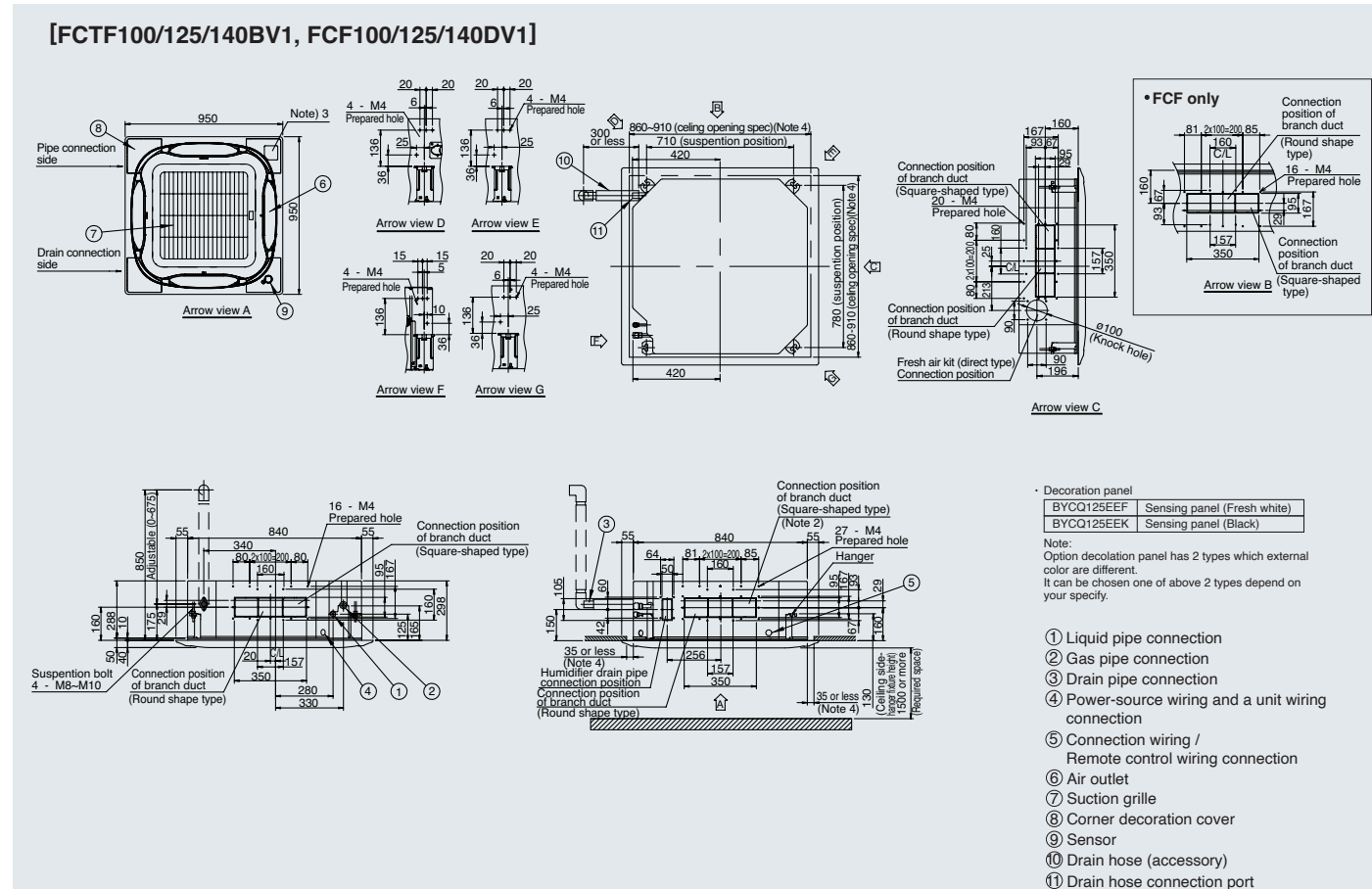


8. For fixing position of human detection and temp sensor will be follow to diagram instruction (can not change position).

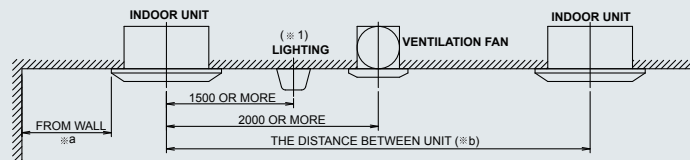
Circulation air flow	Valid	※a	1500-5000
		※b	5000 or more
	Invalid	※a	1500 or more
		※b	4000 or more

(※ 1)Lighting is targeted for exposed type (inverse fuji-shape etc.), for embedded type (type that not expose to ceiling surface), there is no restriction.

CEILING MOUNTED CASSETTE TYPE / Standard panel with Sensing



- Note:
1. 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
 2. In case of having option part built-in, please refer outside drawing of option part.
Fresh air intake kit.....inspection hole Need
Natural evaporate type humidifier.....inspection hole Need
Air purifier unit.....inspection hole No Need
High efficiency filter unit.....inspection hole No Need
Branch duct chamber.....inspection hole No Need
(both angle duct • circle duct)
 3. In case of using wireless remote controller, this position will be a signal receiver.
Refer to the drawing of wireless remote controller in detail.
 4. Though the installation is acceptable up to maximum of 910 mm 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.
 5. When the temperature and humidity in the ceiling exceed 30°C and 80% RH 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.
 6. 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.
 7. If put vent hole, lighting, equipment near the air flow disturb equipment, ceiling surface may get dirty therefore shall install following to diagram as below.

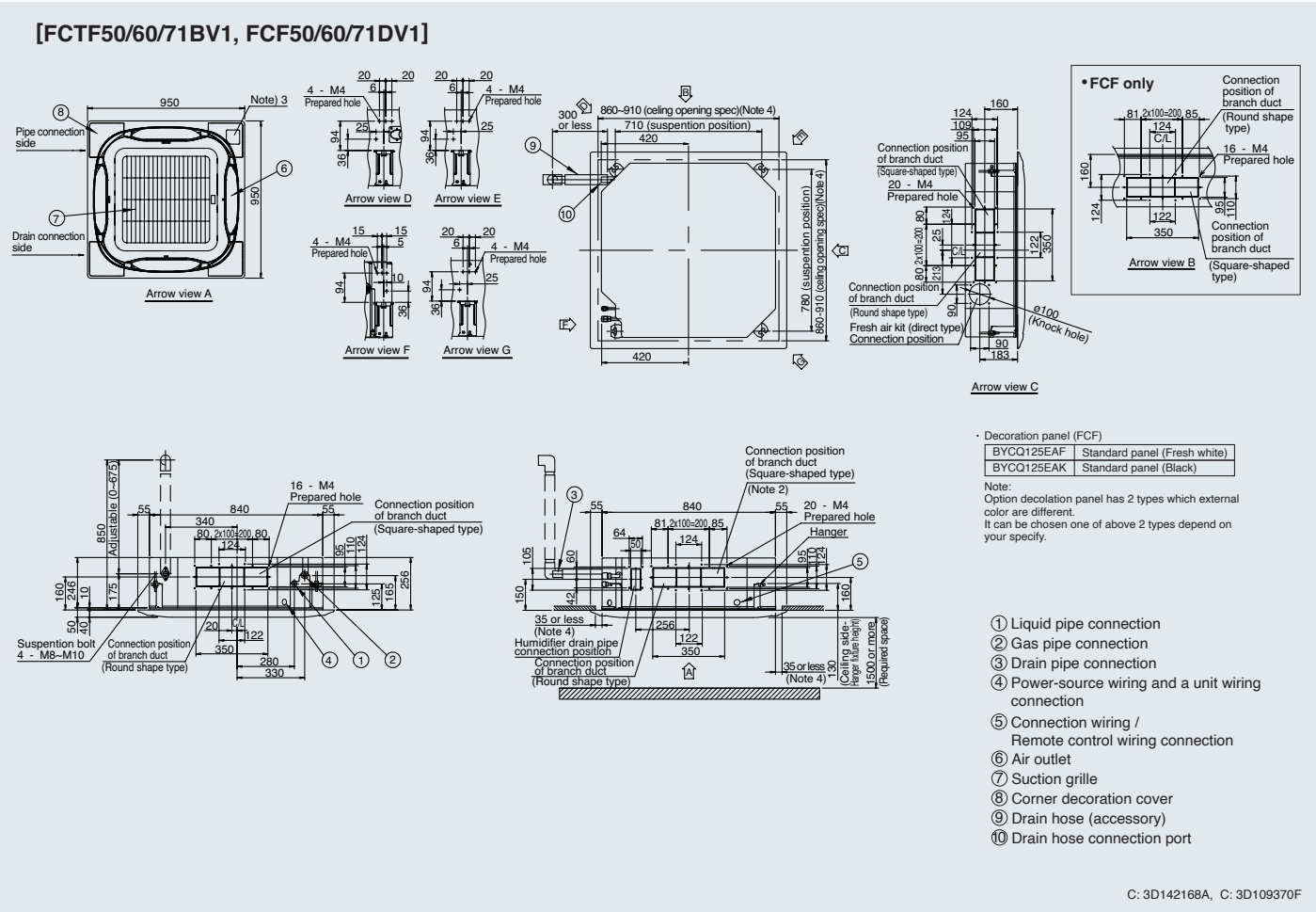


8. For fixing position of human detection and temp sensor will be follow to diagram instruction (can not change position).

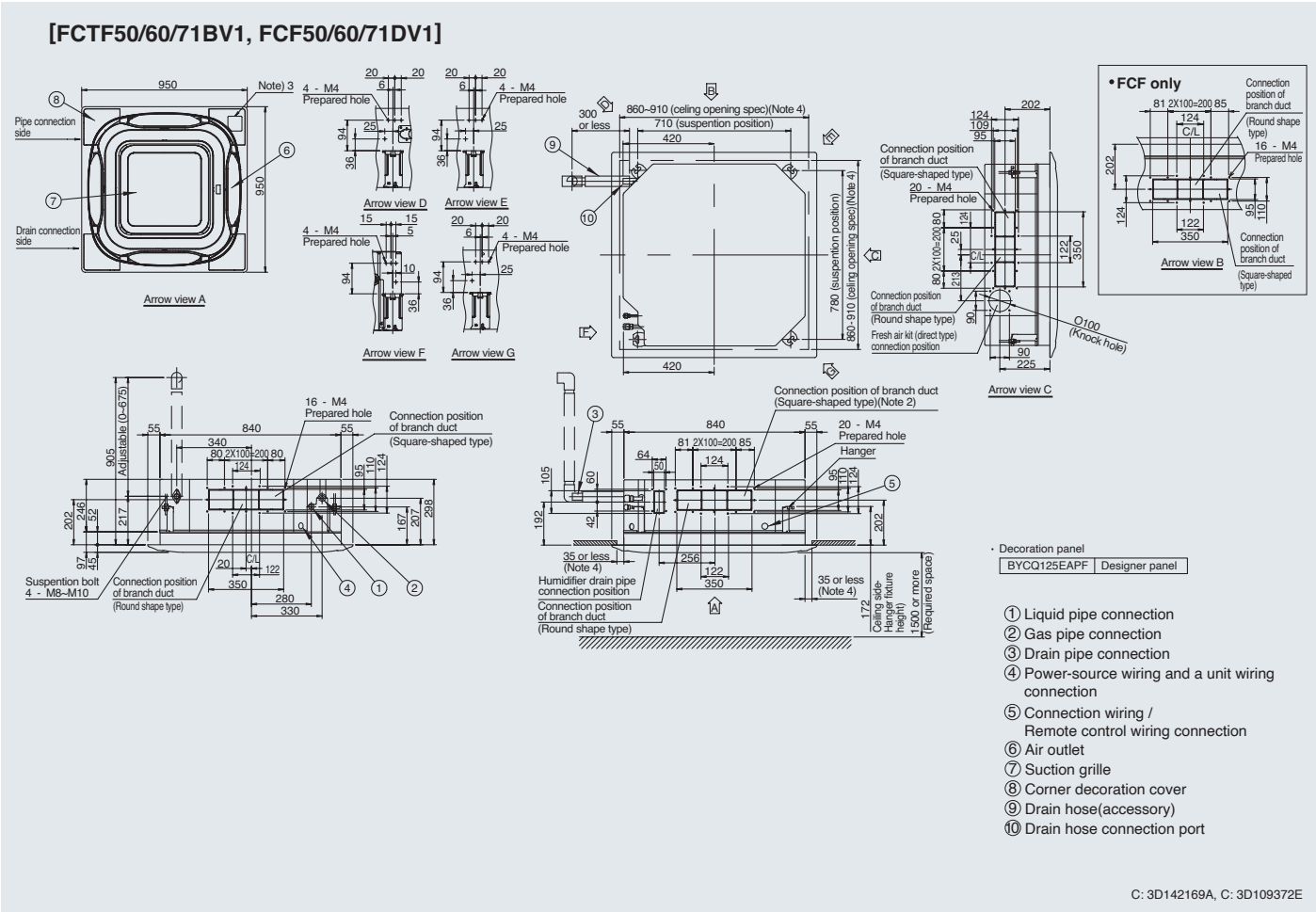
Circulation air flow	Valid	※a	1500-7000
		※b	7000 or more
	Invalid	※a	1500 or more
		※b	4000 or more

(※ 1)Lighting is targeted for exposed type (inverse fuji-shape etc.), for embedded type (type that not expose to ceiling surface), there is no restriction.

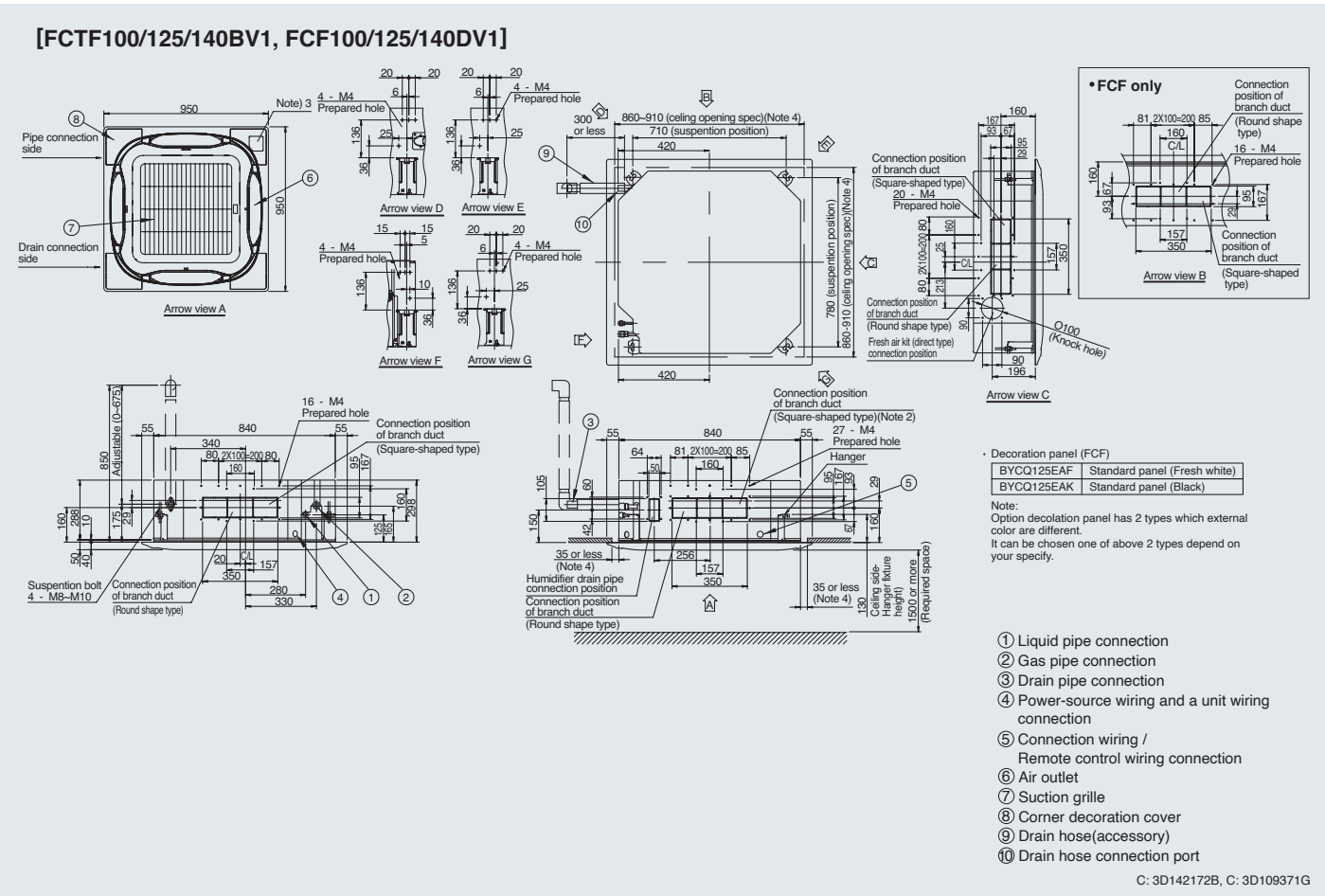
CEILING MOUNTED CASSETTE TYPE / Standard panel



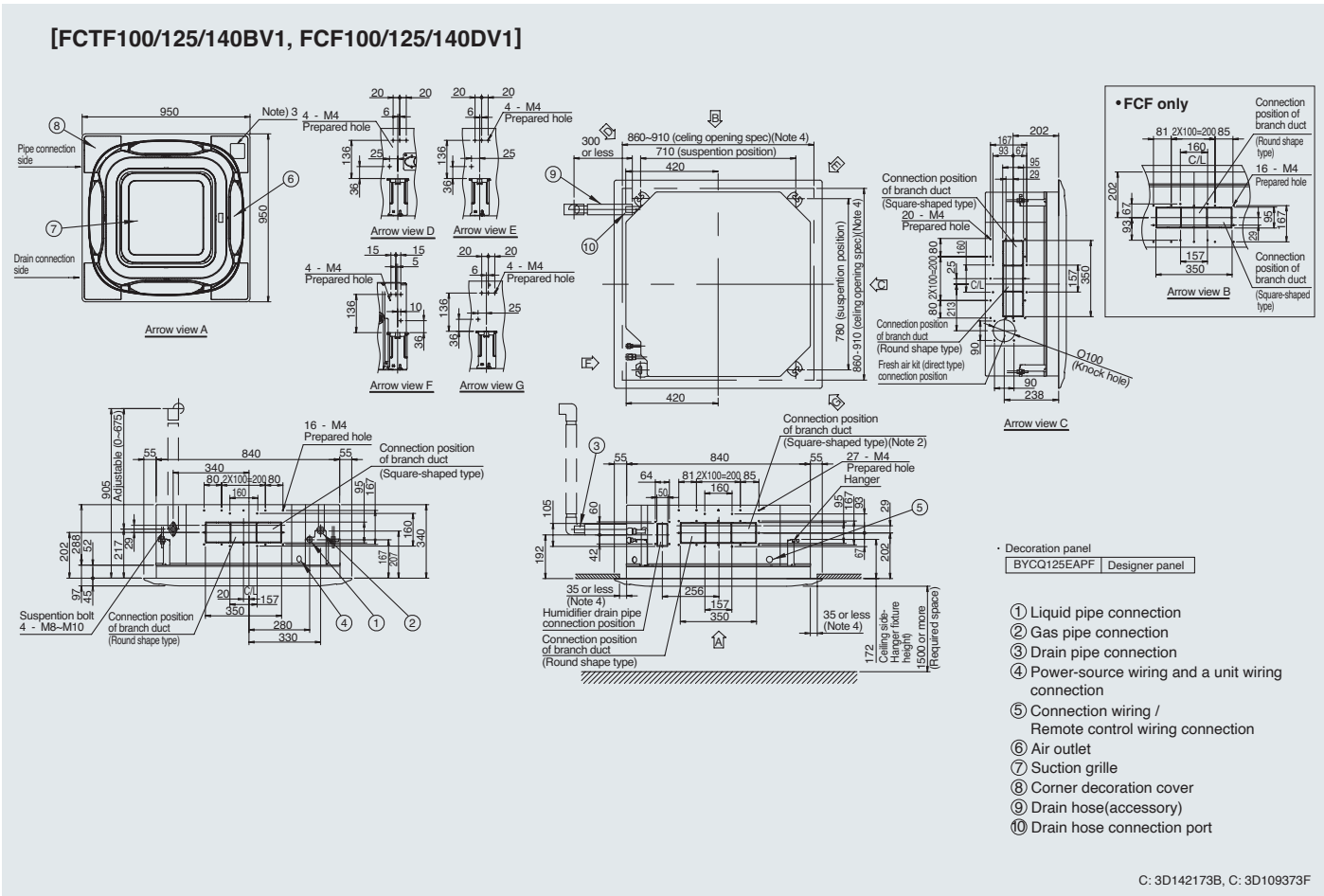
CEILING MOUNTED CASSETTE TYPE / Designer panel



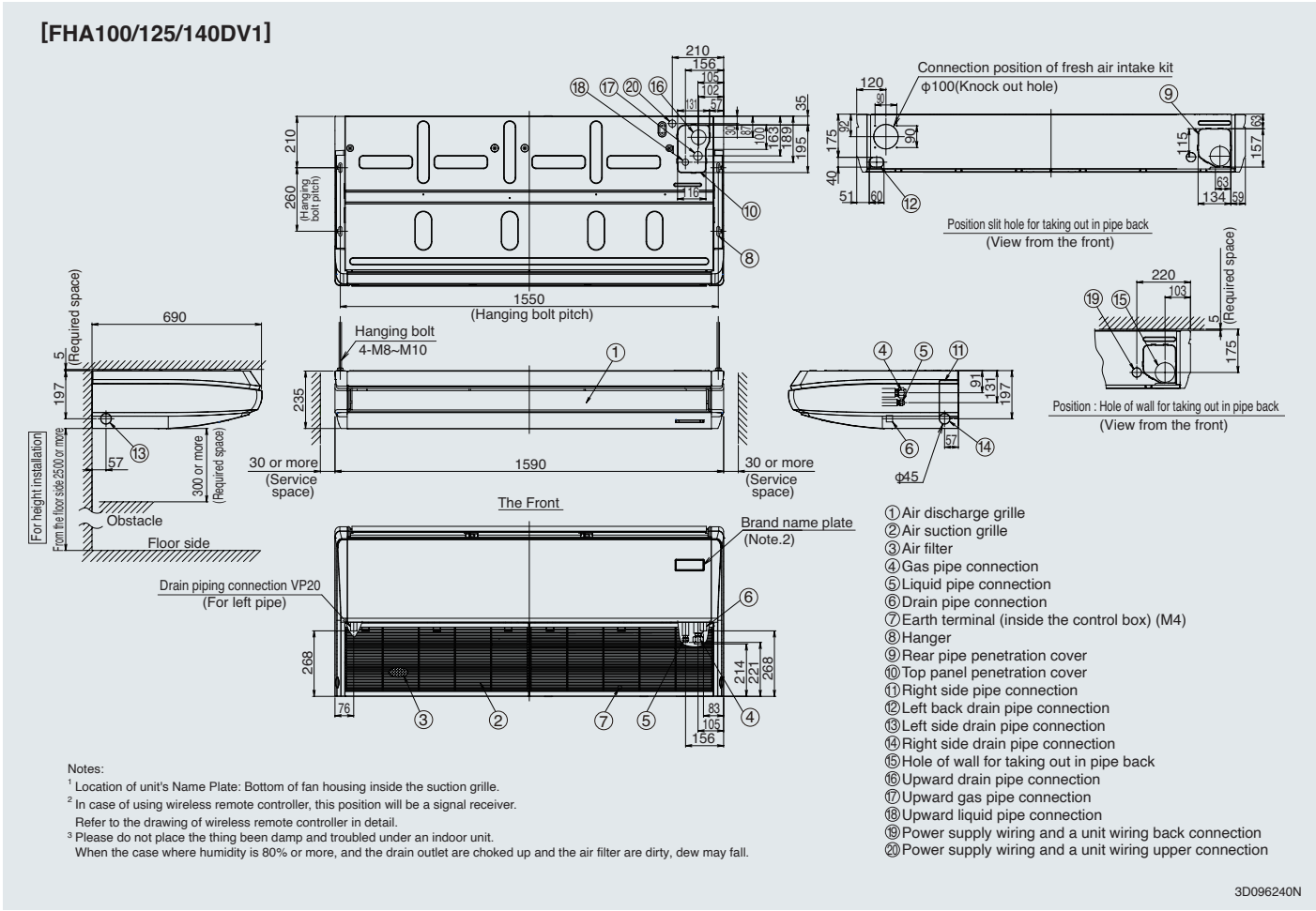
CEILING MOUNTED CASSETTE TYPE / Standard panel



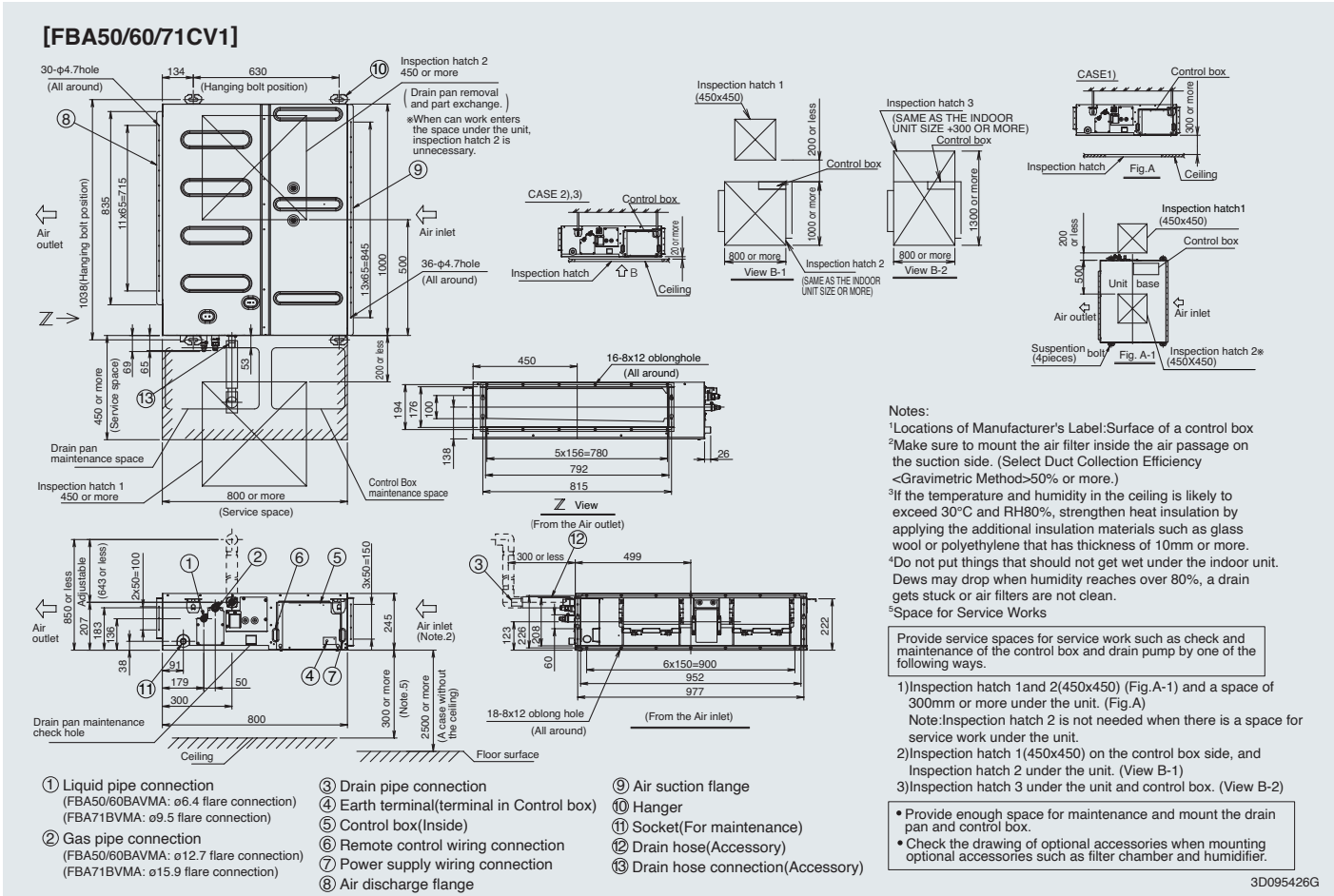
CEILING MOUNTED CASSETTE TYPE / Designer panel



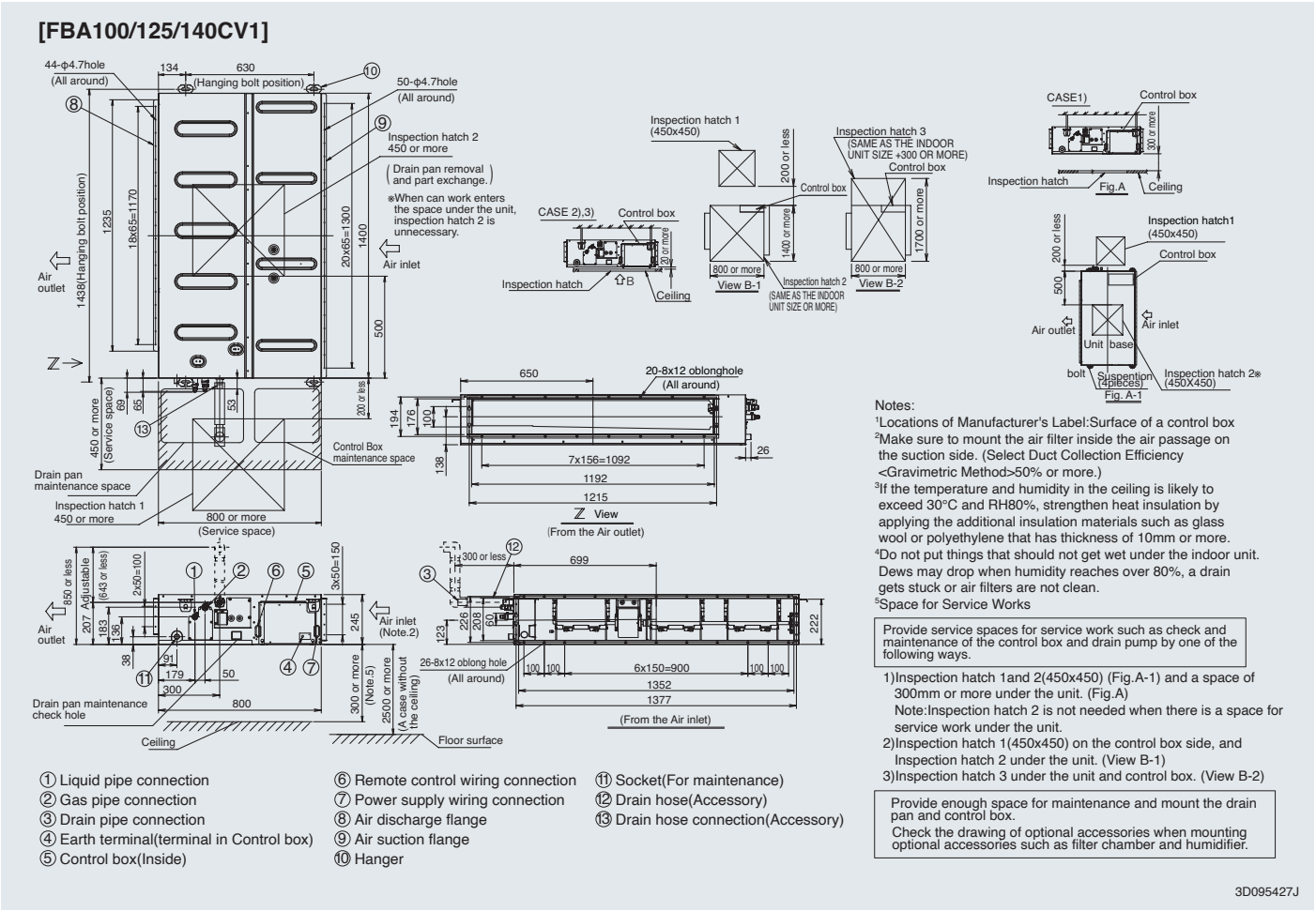
CEILING SUSPENDED TYPE



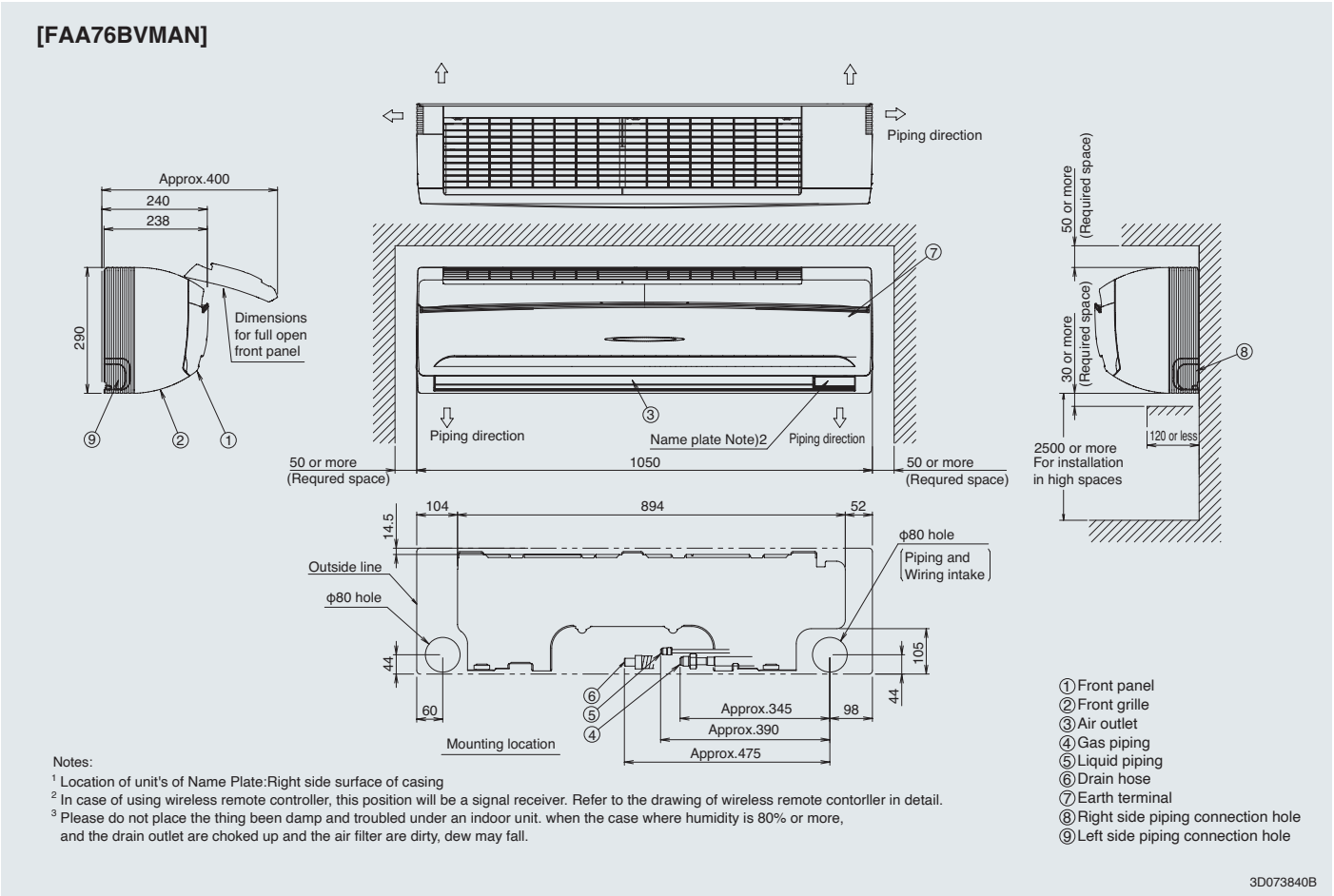
DUCT CONNECTION MIDDLE STATIC PRESSURE TYPE



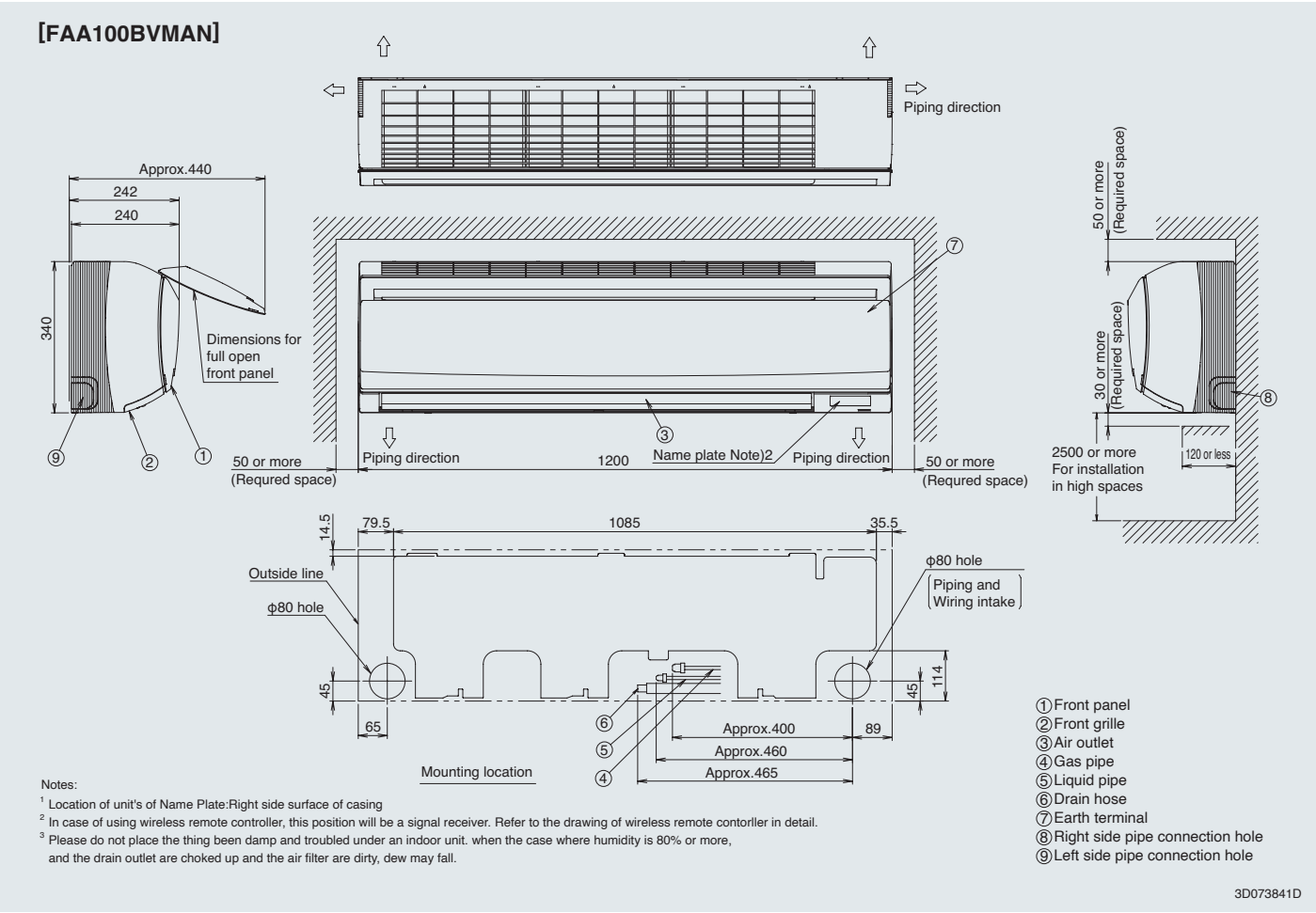
DUCT CONNECTION MIDDLE STATIC PRESSURE TYPE



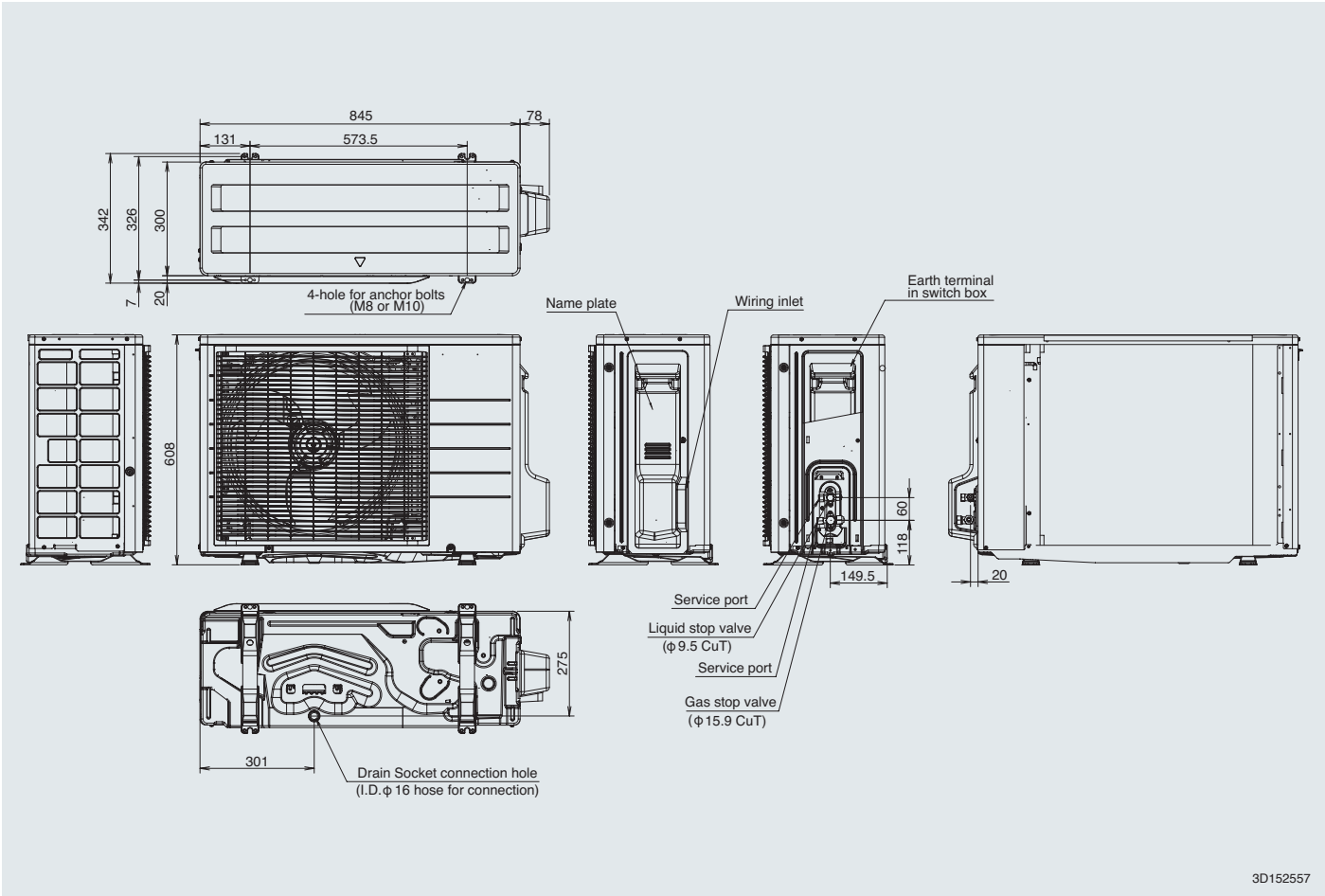
WALL MOUNTED TYPE



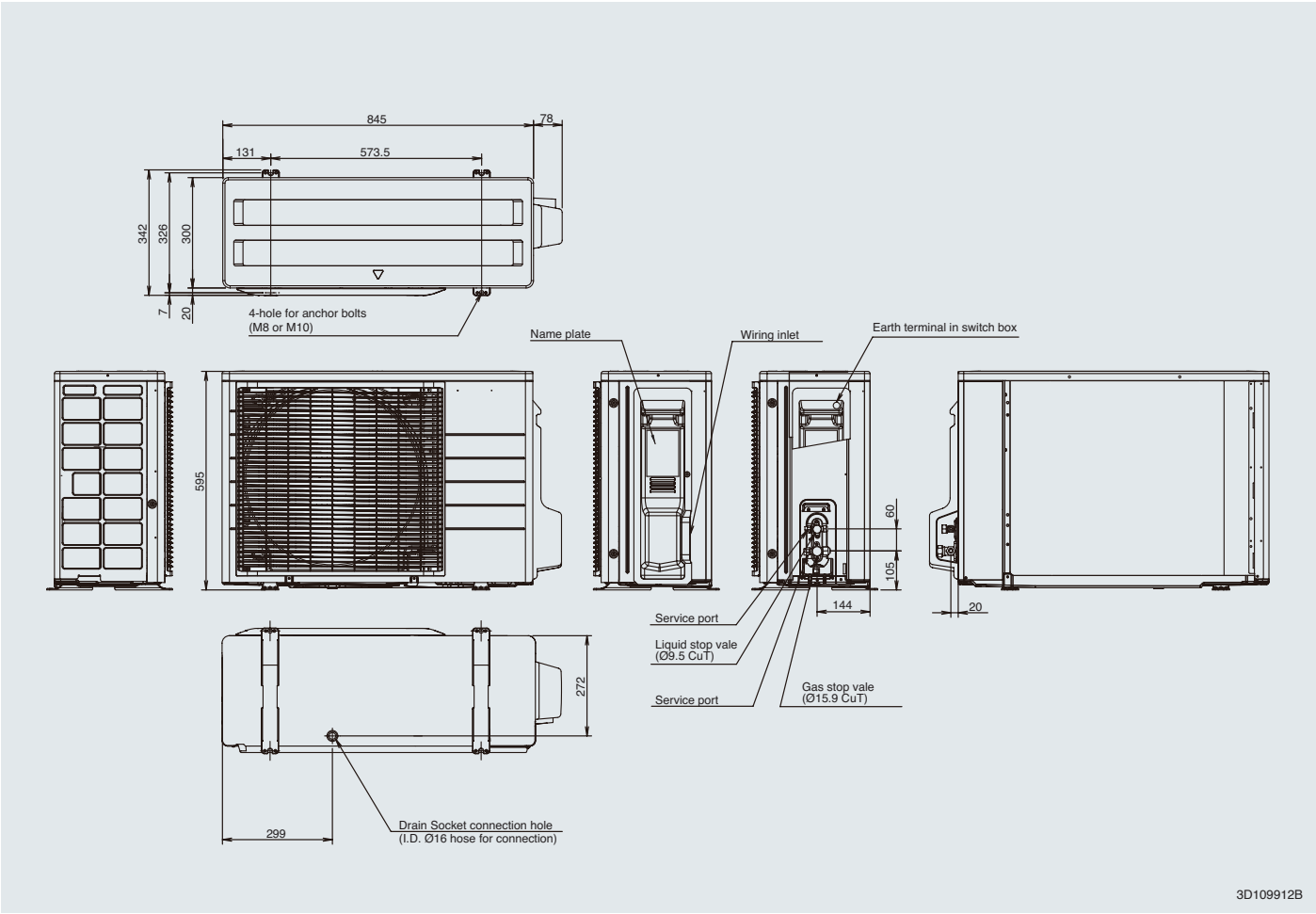
WALL MOUNTED TYPE



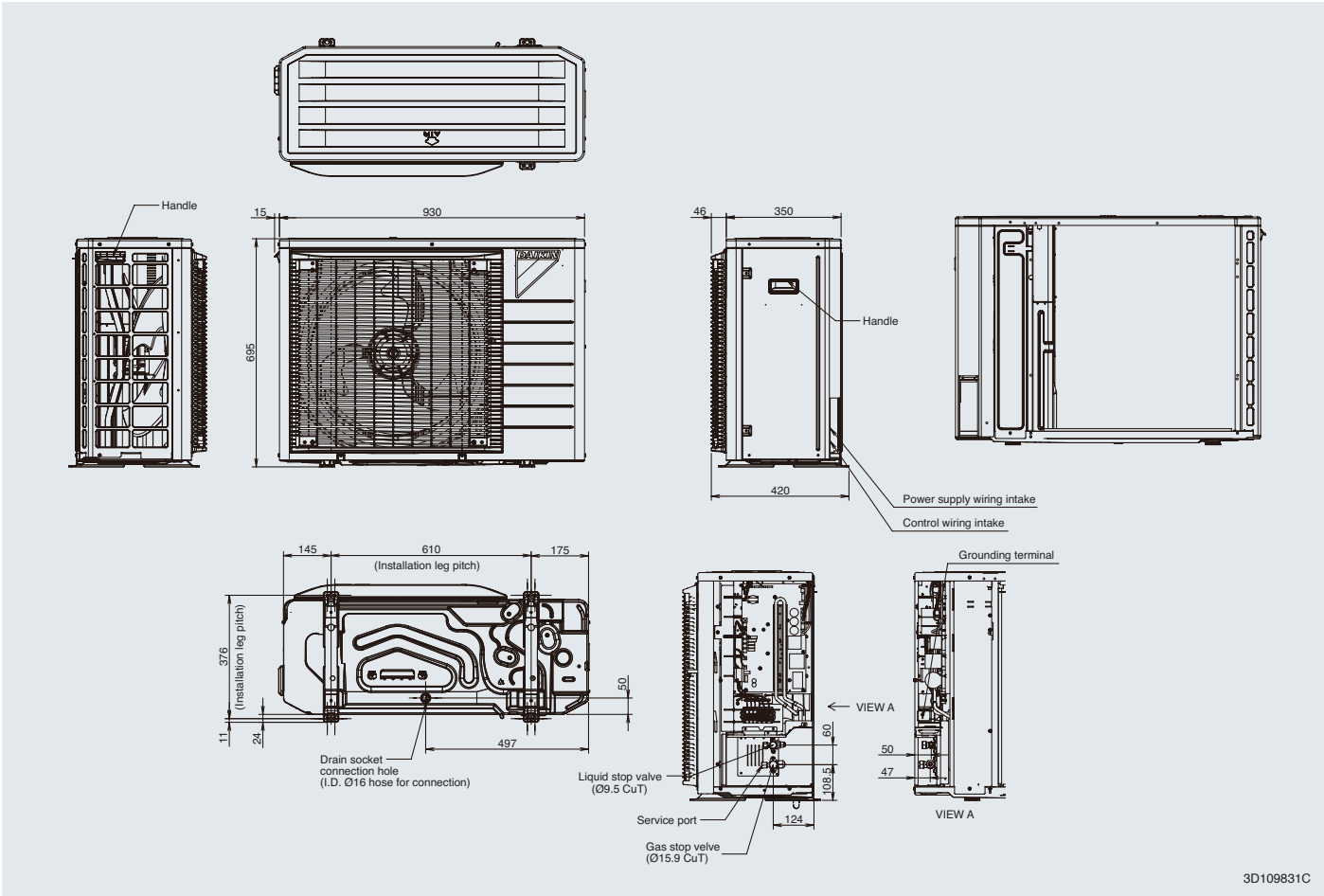
OUTDOOR UNIT // RZF50/60/71DV1



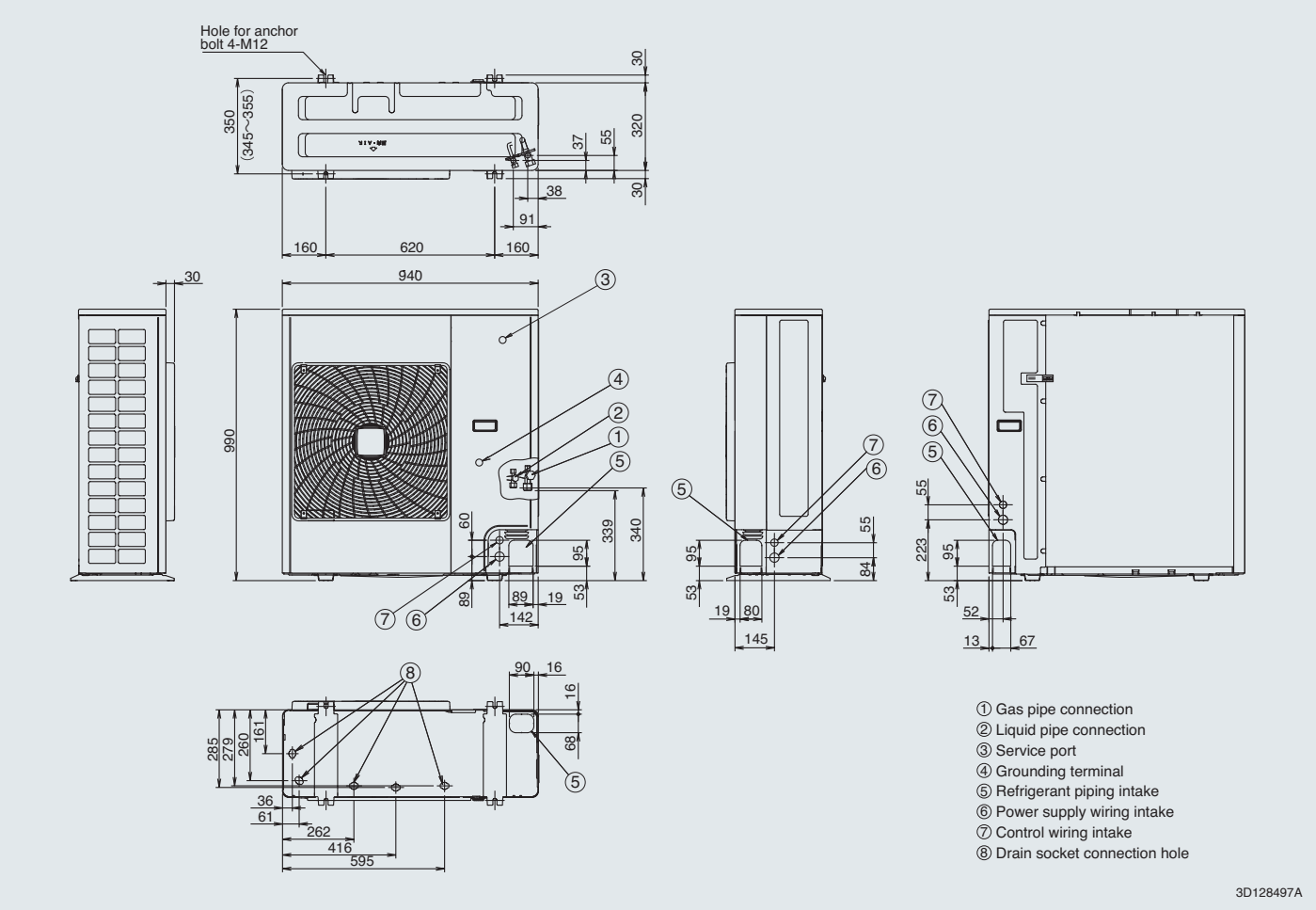
OUTDOOR UNIT // RZF76CVMN



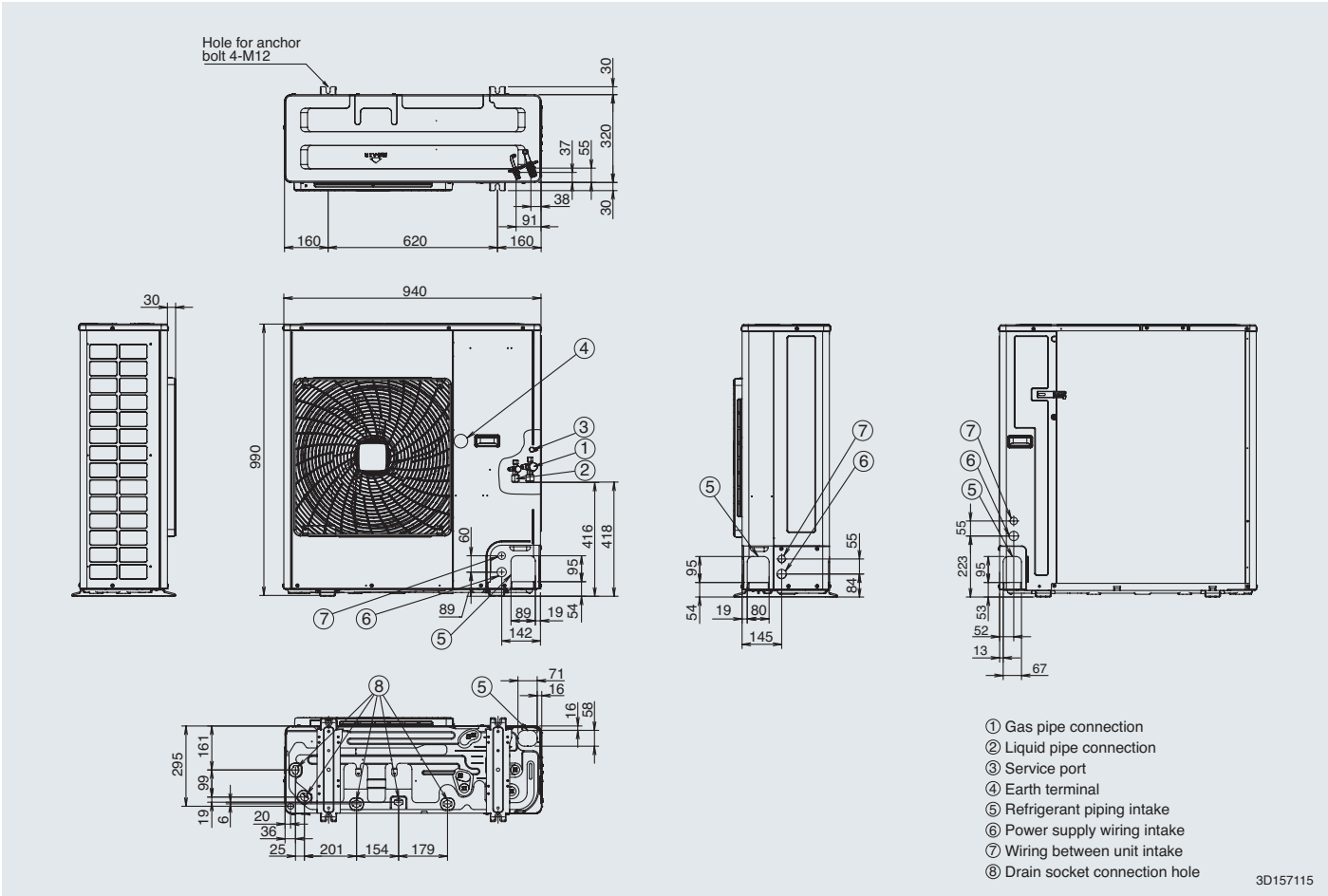
OUTDOOR UNIT // RZF76/100CYMN



OUTDOOR UNIT // RZF100DY1



OUTDOOR UNIT // RZF125/140DY1



REMOTE CONTROLLER

