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.

www.daikin.com.my

DAIKIN MALAYSIA SALES & SERVICE SDN. BHD. *(109719-M)*

Head Office: Tel: 03-7953 8388 **Fax:** 03-7956 4371
Email: sales_enquiry@daikin.com.my, customer_service@daikin.com.my

Branches:	• Kedah	Tel: 04-730 5670	• Johor	Tel: 07-557 7788
	• Penang	Tel: 04-331 1670	• Pahang	Tel: 09-567 6778
	• Perak	Tel: 05-548 2307	• Kelantan	Tel: 09-747 4578
	• Negeri Sembilan	Tel: 06-768 8969	• Sabah	Tel: 088-722 194
	• Melaka	Tel: 06-288 1133	• Sarawak	Tel: 082-333 299

Authorized dealer:

Catalogue No. PCSMY1716A

RZF-1217-A

SkyAir

Single-Split Inverter Series

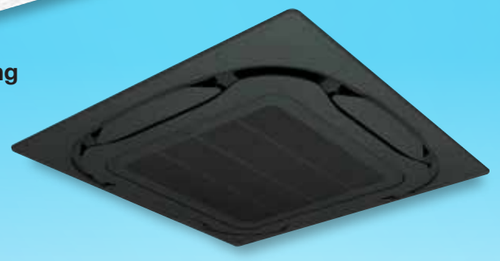
INVERTER R32

NEW New Inverters Launched!

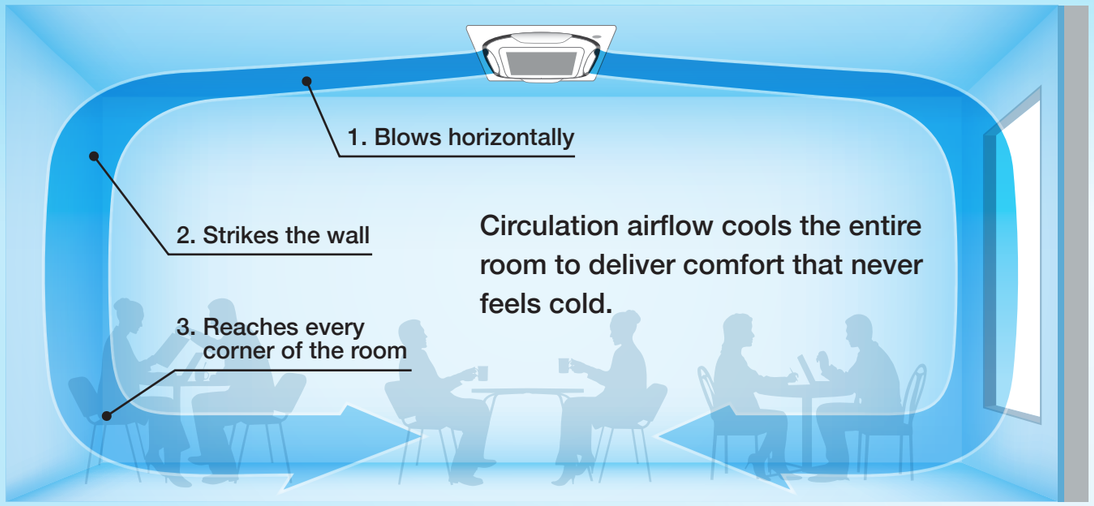
ROUND FLOW

Panel With Sensing
(Fresh White)

Panel (Fresh White)



Panel (Black)



Panel With Sensing
- Fresh White -

Panel
- Black -

R32

5.0–7.1 kW class

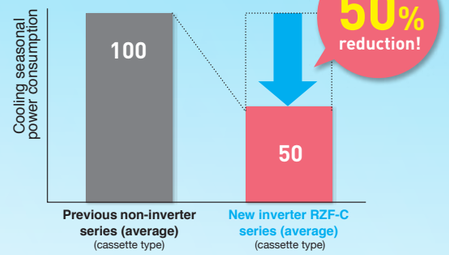
7.1–10.0 kW class

12.5–14.0 kW class

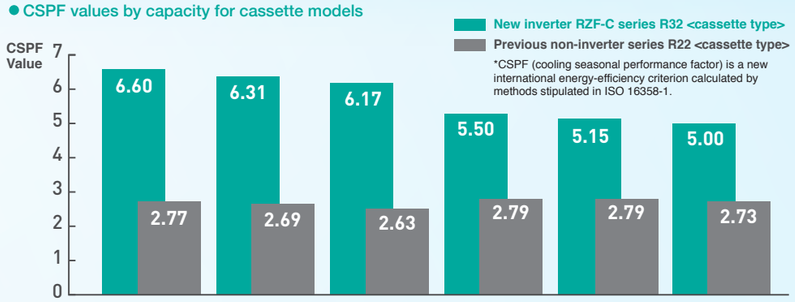
Energy Saving

Throughout the cooling season, Daikin's new inverter models reduce energy consumption.
Compared with previous non-inverter series, the new RZF-C series uses about 50% less power consumption for quick and effective cooling that reduces electricity bills.

Comparison of cooling seasonal power consumption based on average CSPF values



● CSPF values by capacity for cassette models



Inverter	RZF50CVM	RZF60CVM	RZF71CVM	RZF100CVM	RZF125CVM	RZF140CVM
Non Inverter	R18NUV1	R21NUV1	R26NUV1	R36NUY1	R42NUY1	R48NUY1

What is CSPF?

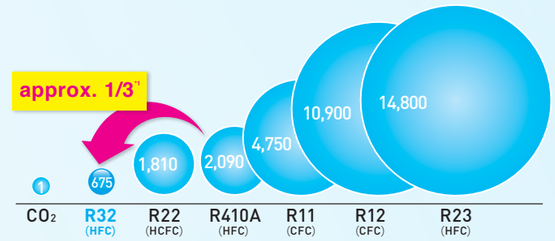
CSPF is the value for the annual total cooling load divided by the annual total power consumption at outdoor air conditions specified by ISO standard.

From R410A to R32, Another step towards lower global warming potential.

If you want a new HFC refrigerant with zero ozone depletion potential, which also has a lower global warming potential than R410A, use R32.

Achieving new levels of energy efficiency while responding to environmental needs, Daikin has redesigned the SkyAir series right from the basic design to use R32.

■ 100-year global warming potential (GWP) of different refrigerants



*1. Source: Values for 100-year global warming potential (GWP) from IPCC Fourth Assessment Report. Comparative 100-year GWP: HFC410A, 2,090; HFC32, 675.

NEW Circulation Airflow Evenly Distributes Cool Air*1

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

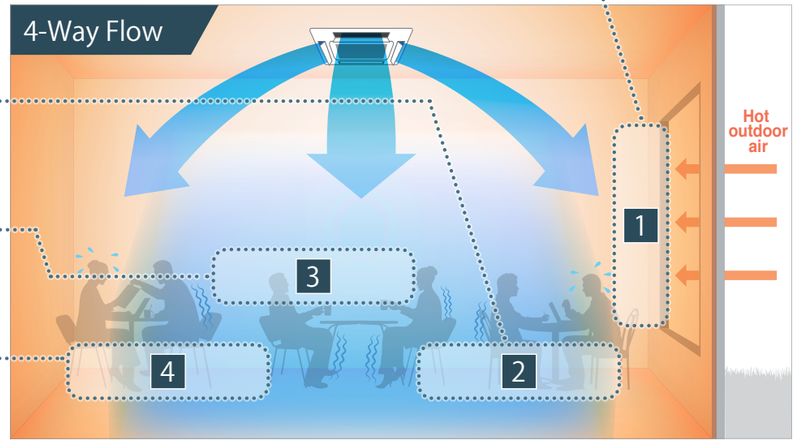
Airflow until now had areas that were either too cool or not cool enough.

Problem 1
Hot outdoor air entering through windows and walls causes these areas to become hot.

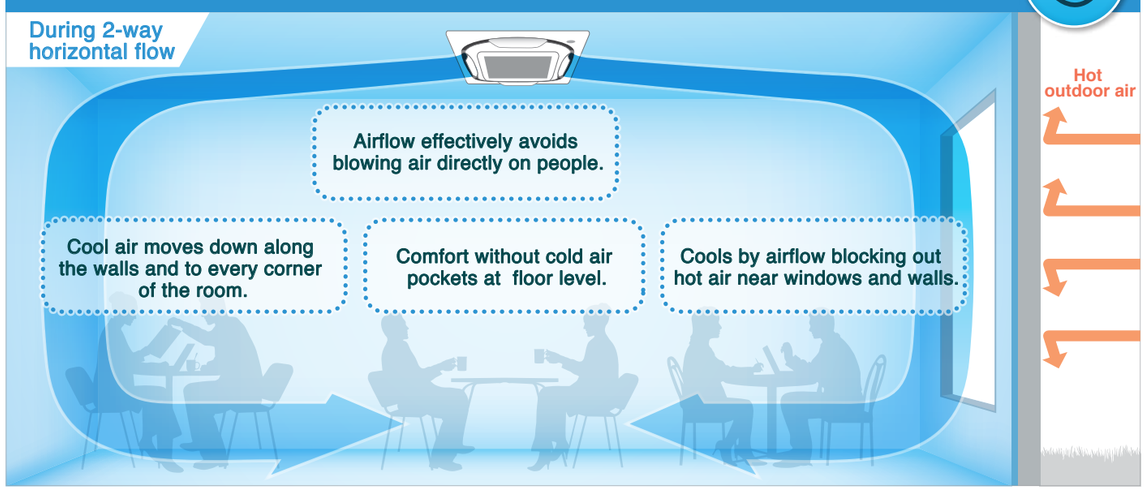
Problem 2
Cool air accumulating directly underneath causes cold air pockets at floor level.

Problem 3
Airflow blowing directly on people causes discomfort for people in the room.

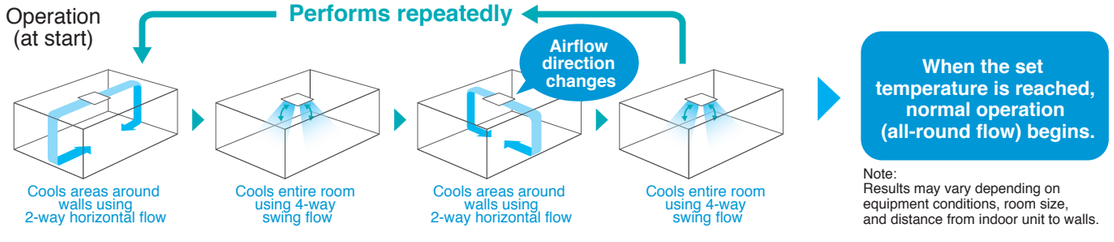
Problem 4
Quick descent of cool air causes insufficient cooling for corners of the room.



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

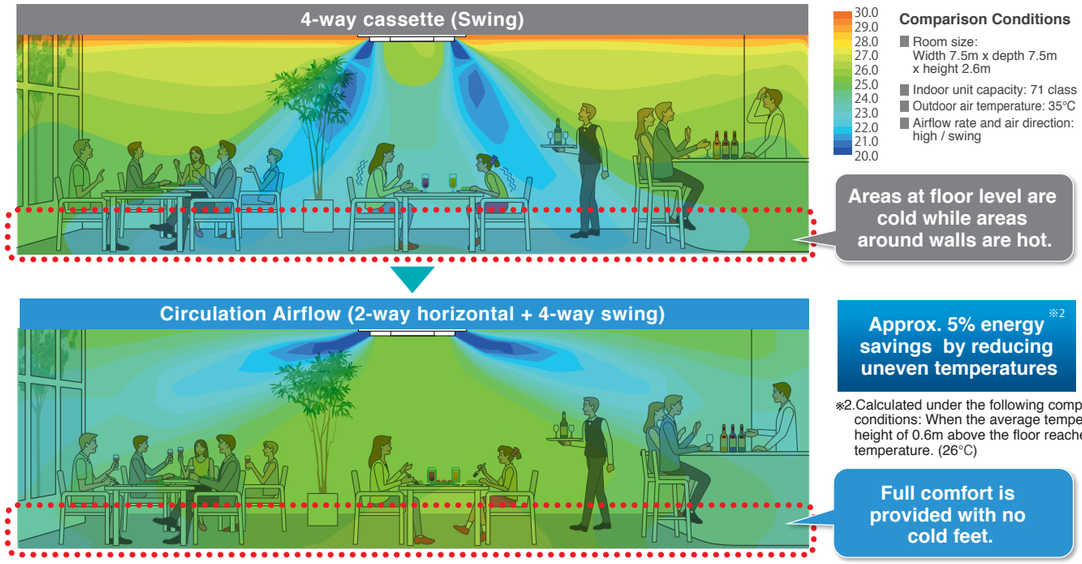


Configurations of Circulation Airflow



Note:
Results may vary depending on equipment conditions, room size, and distance from indoor unit to walls.

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

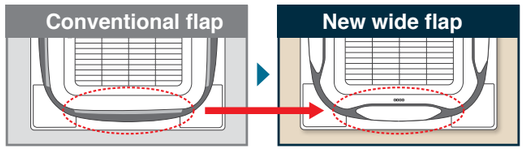


※2.Calculated under the following comparison conditions: When the average temperature at a height of 0.6m above the floor reaches set temperature. (26°C)

Three Technologies That Achieved Circulation Airflow

1 Use of new wide flaps (Straight)

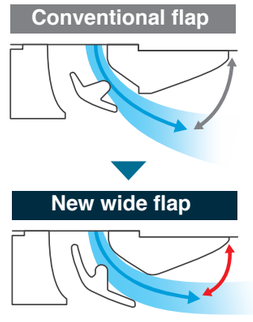
With new, larger flaps, a straighter trajectory for airflow was achieved.



New wide flap construction inhibits ceiling dirt and grime.
By tapering both flap ends, the airflow that causes dirty ceilings is directed downward.

2 Optimizing airflow angle (Horizontally)

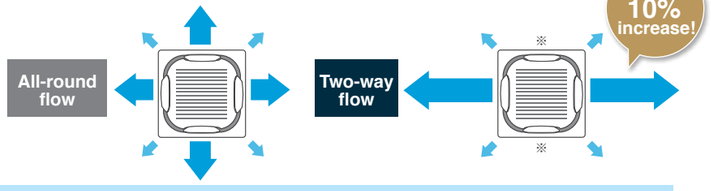
The airflow angle was made more horizontal.



3 Increased velocity in 2-way flow (Strongly)

Velocity increased by making 2-way flow. Powerful airflow was realized.

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

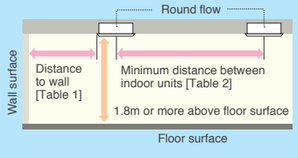


Things to remember when using circulation airflow

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 a sealing material of air discharge outlet and branch ducts are used;
  - When individual airflow setting is selected;
  - When using group control other than round flow.

Installation conditions



[Table 1]
Distance to wall from indoor unit

Indoor unit capacity	FCF50-71	FCF100-140
Maximum distance	1.5-5m	1.5-7m

[Table 2]
Minimum distance between indoor units

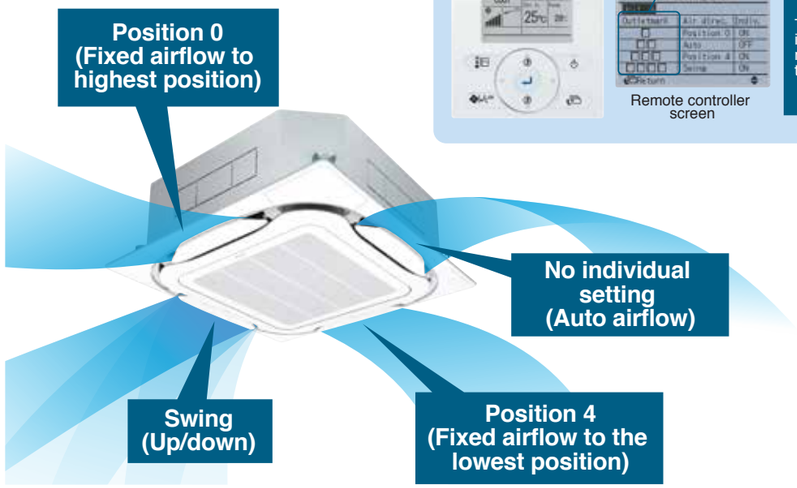
Indoor unit capacity	FCF50-71	FCF100-140
Minimum distance	5m or more	7m or more

NEW Individual Airflow Direction Control*1

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

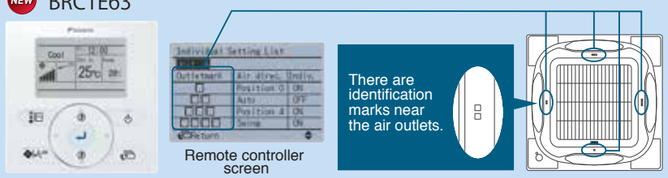
Comfortable air conditioning for all room layouts and conditions

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.

NEW BRC1E63



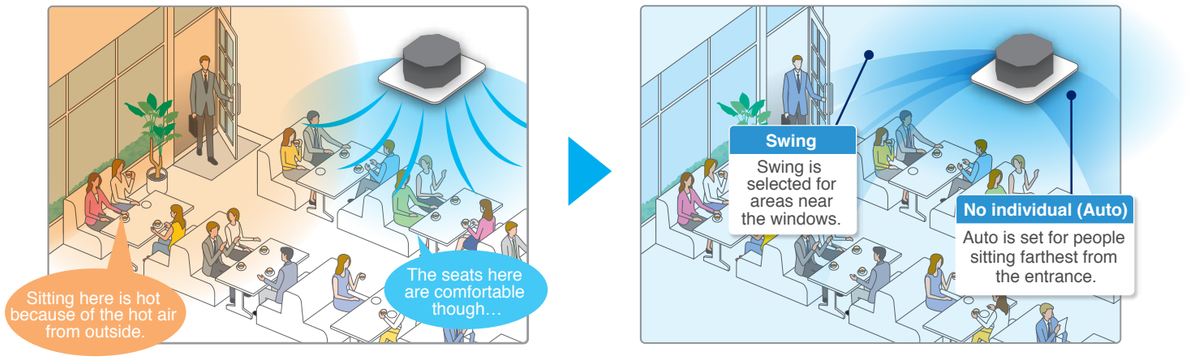
Individual airflow settings

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

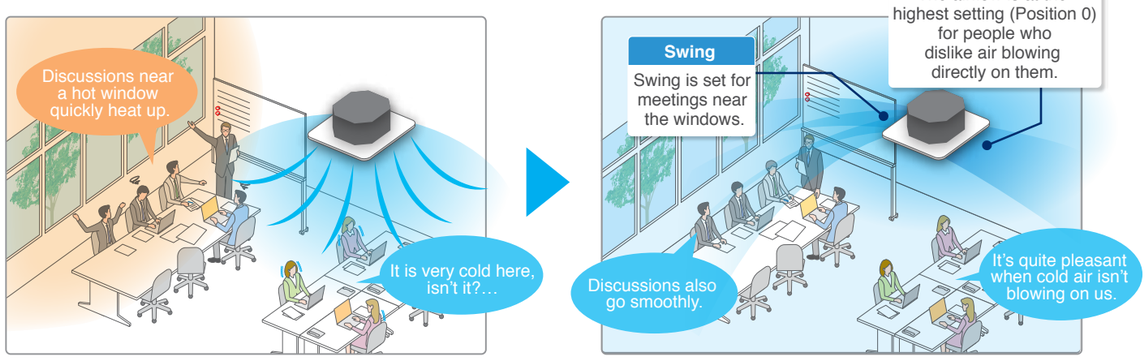
Individual settings are possible as stated above.

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

For shops and restaurant



For offices

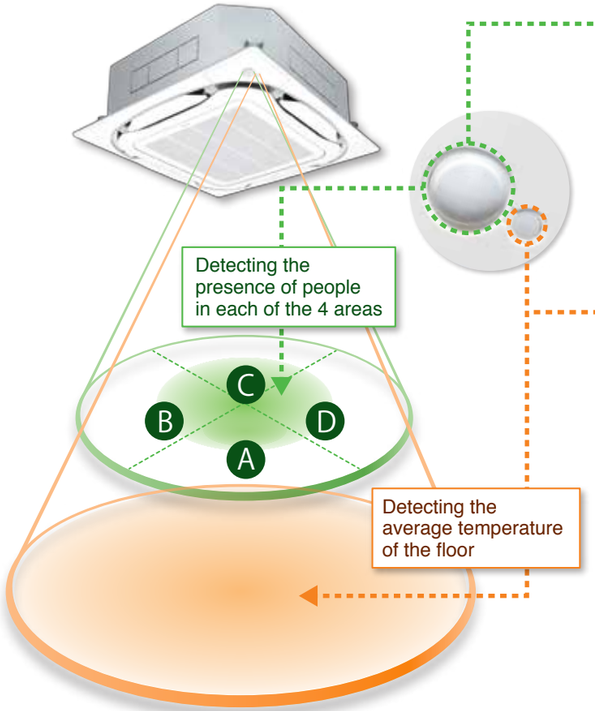


NEW Daikin Sensing Technology*1,2

*1. Applicable when wired remote controller BRC1E63 is used.
*2. Applicable when sensing panel (BYCQ125EEF) is installed.

Dual Sensors*2

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

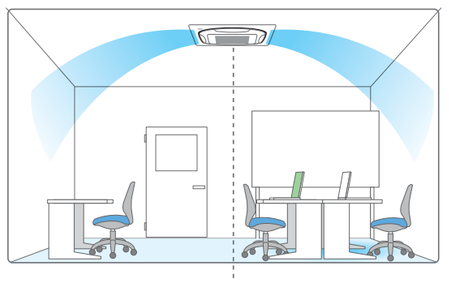
*4. The infrared floor sensor detects at the floor surface.

Auto Airflow Function*5

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

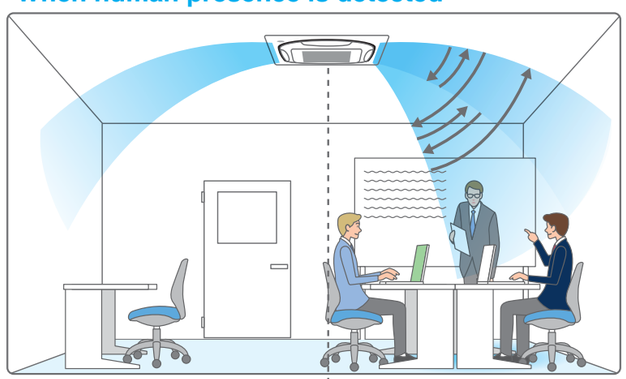
Direct Airflow (default: OFF) Cooling Dry

When human presence is not detected



Optimal air direction by "Auto"

When human presence is detected



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.

Product Lineup

Cooling only

SkyAir

R32

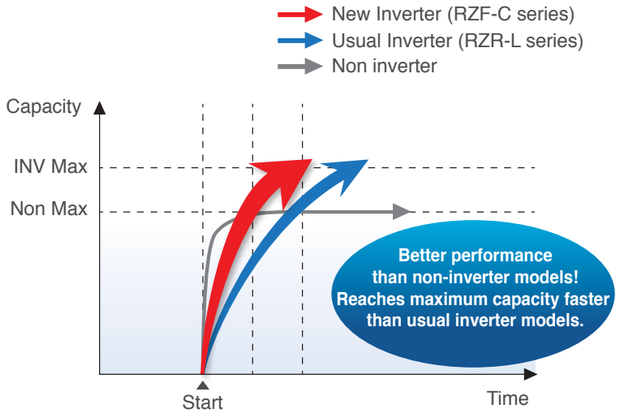
Series		50	60	71	100	125	140
CEILING MOUNTED CASSETTE TYPE ROUND FLOW 〈Round Flow〉	Indoor unit	FCF50CVM	FCF60CVM	FCF71CVM	FCF100CVM	FCF125CVM	FCF140CVM
	Outdoor unit	RZF50CVM	RZF60CVM	RZF71CVM / RZF71CYM	RZF100CVM / RZF100CYM	RZF125CVM / RZF125CYM	RZF140CVM / RZF140CYM
DUCT CONNECTION MIDDLE STATIC PRESSURE TYPE	Indoor unit	FBA50BVMA	FBA60BVMA	FBA71BVMA	FBA100BVMA	FBA125BVMA	FBA140BVMA
	Outdoor unit	RZF50CVM	RZF60CVM	RZF71CVM / RZF71CYM	RZF100CVM / RZF100CYM	RZF125CVM / RZF125CYM	RZF140CVM / RZF140CYM
CEILING SUSPENDED TYPE	Indoor unit	FHA50BVMA	FHA60BVMA	FHA71BVMA	FHA100BVMA	FHA125BVMA	FHA140BVMA
	Outdoor unit	RZF50CVM	RZF60CVM	RZF71CVM / RZF71CYM	RZF100CVM / RZF100CYM	RZF125CVM / RZF125CYM	RZF140CVM / RZF140CYM
WALL MOUNTED TYPE	Indoor unit				FAA100BVMA		
	Outdoor unit				RZF100CVM / RZF100CYM		
OUTDOOR UNIT	Outdoor unit	RZF50CVM	RZF60CVM	RZF71CVM	RZF100CVM	RZF125CVM	RZF140CVM
				RZF71CYM			
	Power supply	1 phase, 220-240V, 50Hz			1 phase, 220-240V, 50Hz	3 phase, 380-415V, 50Hz	1 phase, 220-240V, 50Hz	3 phase, 380-415V, 50Hz	1 phase, 220-240V, 50Hz	3 phase, 380-415V, 50Hz

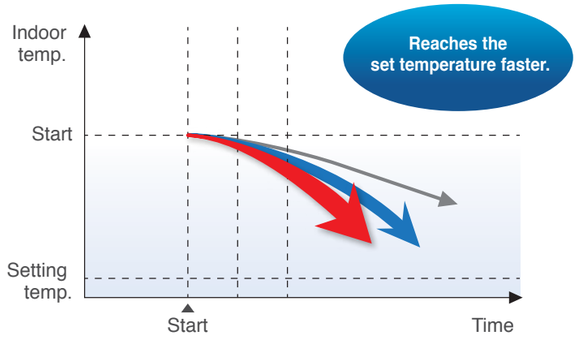
Quick Cooling

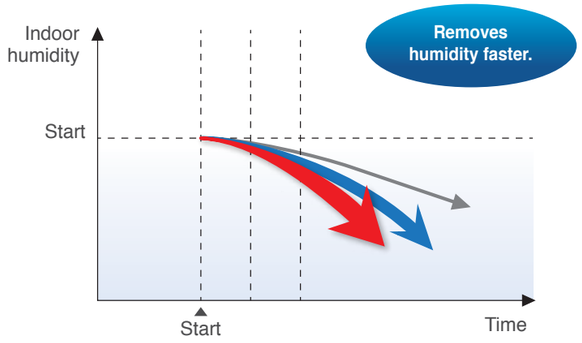
Faster cooling and dehumidification

NEW

New inverter control technology brings quick comfort.



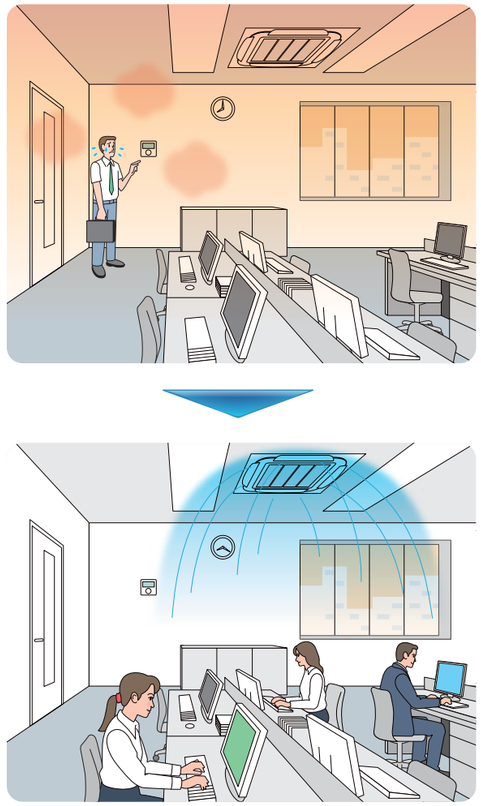




Quick cooling start function

Quickly and easily make space comfortable before the arrival of office workers or shop customers.
As well as quick cooling at maximum capacity, new inverter control rapidly removes indoor humidity.
More than simple temperature reduction, this twin reduction provides greater comfort (within a maximum of 30 minutes).

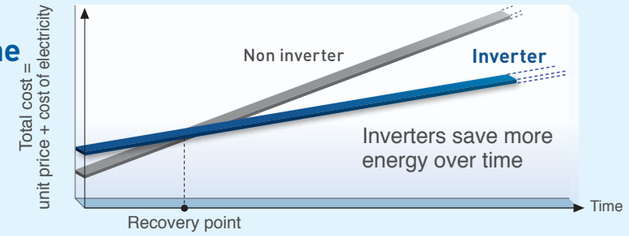
● BRC1E63 wired remote controller is used for 'Quick cooling start'.



Benefits of Inverters

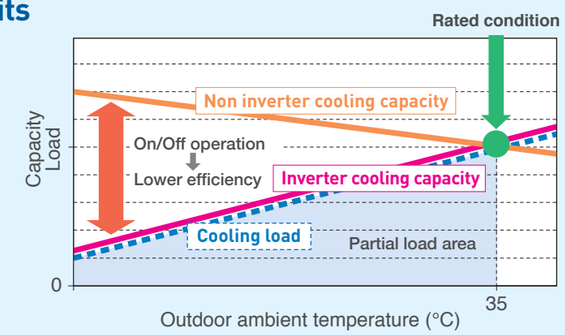
Why is inverter technology economical?

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.

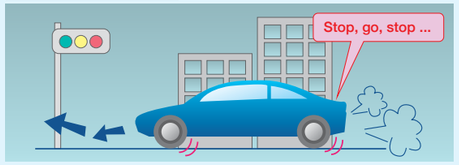


Inverters operate without repeated ON/OFF operation.

Inverter Highway driving

Continuous driving without stopping and starting is more fuel efficient.

Non inverter City driving

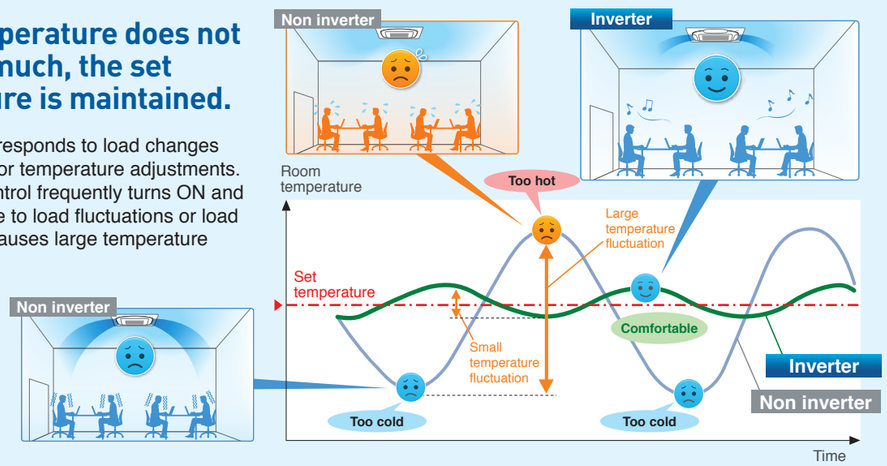


Constantly stopping and starting consumes energy and is less fuel efficient.

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.



Durability

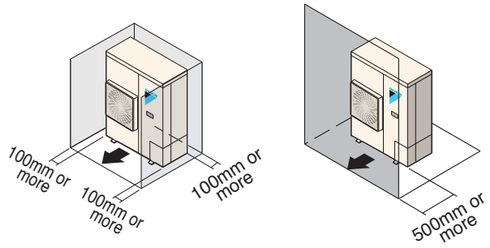
Overvoltage PCB (Outdoor unit option)

Unstable power supply is a common problem in many regions. It can cause overvoltage which can significantly damage electronic devices.
To prevent voltage fluctuations, it is usually necessary to attach a stabiliser when installing an air conditioner.
The RZF-C series is equipped with a highly-durable electronic circuit.
This circuit eliminates the need for a stabiliser and offer additional protection for devices in the outdoor unit, such as its fan motor and compressor.

Automatic protection against low voltage

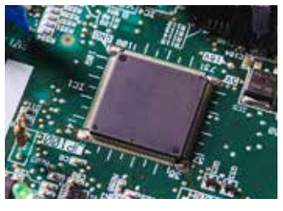
In AM and PM peak electricity consumption periods, supply may fluctuate. Built-in low-voltage protection will automatically cut operations. When normal voltage is restored, operation will resume as before.

Outdoor unit installation is possible even with limited space



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.

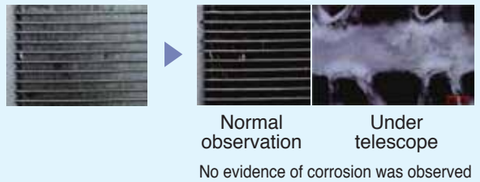


Microchannel heat exchanger

Microchannel technology utilises superior heat transfer benefits of aluminium to create a more efficient air conditioner.
With a new resistance corrosion aluminium alloy, the Daikin microchannel 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.

Test of durability

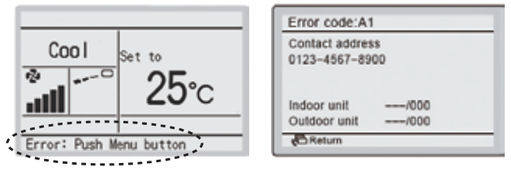
- Testing organization MTEC Thailand
- Testing standard ASTM B117
- Result



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

Self-diagnosis functions enable prompt maintenance response

An error message appears on the LCD of the remote controller and an LED lights up on the unit.
When the BRC1E63 is installed, the error code appears showing contact information and model name. Contact your Daikin dealer and provide the error code and model name.



Convenient Functions

Navigation remote controller BRC1E63 includes various convenient functions

Automatic return to temperature preset by owner.

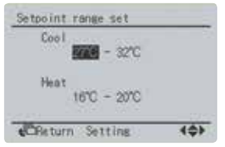
Setpoint auto reset

- 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.

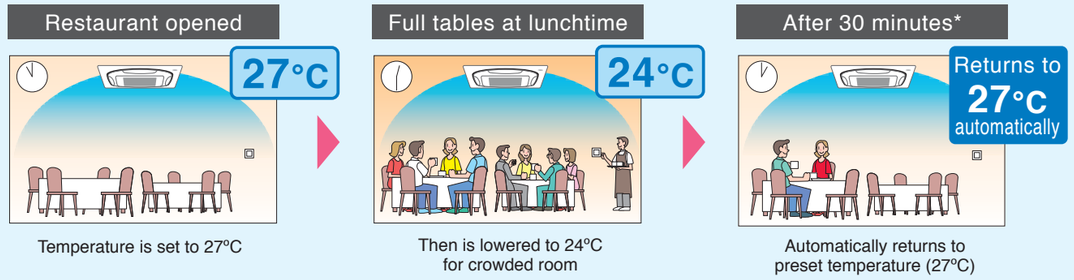
Owner can preset upper and lower temperatures.

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.



Restaurant example



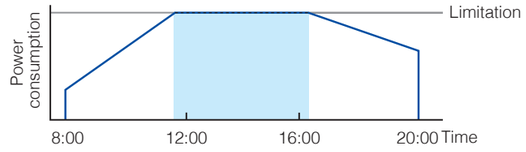
*Preset-return time can be set at 30, 60, 90, or 120 min

Demand control function

By setting limits that restrict power consumption, you can cut electricity bills.

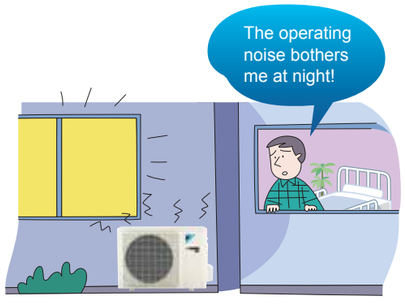
- Power consumption is given first priority, and limits maximum power consumption of unit.
  Maximum power consumption can be set at 40, 60, 70, 80, or 100%.

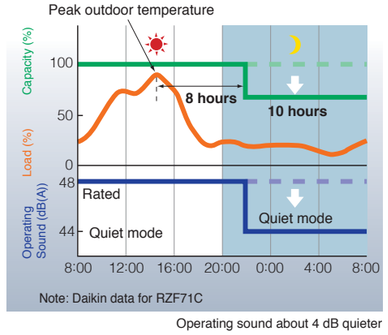
* RZF100-140CVM, 71-140CYM
* Field setting with remote controller
* Required for KRP58M51 (Option)



Night quiet operation mode

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





Operating sound about 4 dB quieter

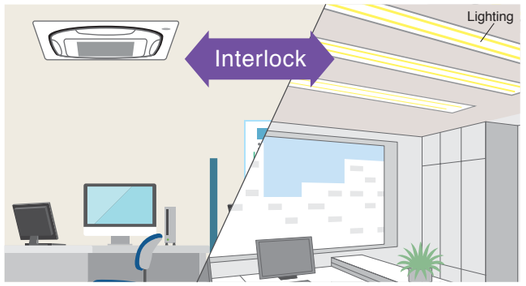
*Field setting with remote controller

Design Flexibility

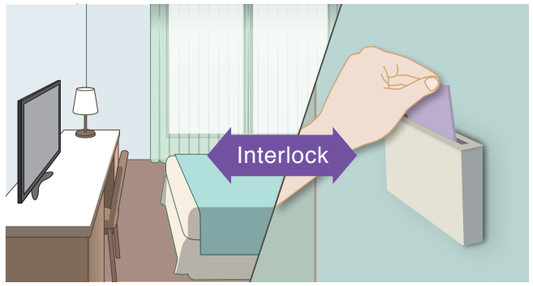
Possible to forced OFF and ON/OFF operation using external command

*Field setting with remote controller

Round flow cassette type



Duct connection middle static pressure type



External Equipment Interlock (FCF-C series only)

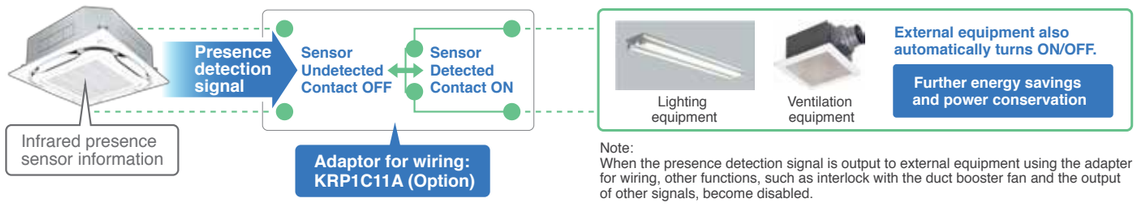
Power conservation is possible though interlock* of external equipment, such as lighting, with the infrared presence sensor.

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: KRP1C11A is necessary.

Sensor interlock mode

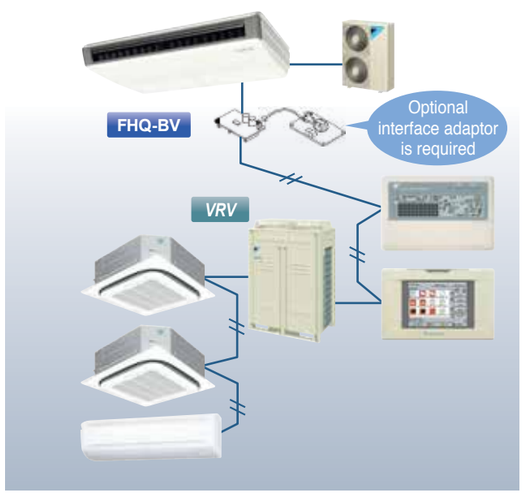
The presence detection signal of the infrared presence sensor can turn only external equipment ON/OFF without interlocking with air conditioner operation/stop (ON/OFF).



Note:
When the presence detection signal is output to external equipment using the adapter for wiring, other functions, such as interlock with the duct booster fan and the output of other signals, become disabled.

Indoor units comply with DIII-Net standards

Previous indoor unit



New indoor unit

Easy connection to DIII-NET and long piping length makes this solution suitable for projects including *VRV* and SkyAir.

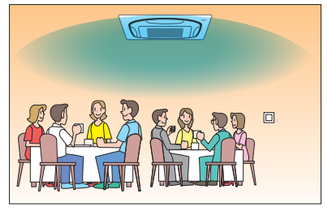
Smart Airflow Control

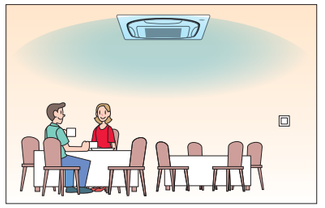
Indoor units can provide 5-step and 3-step fine control of air volume

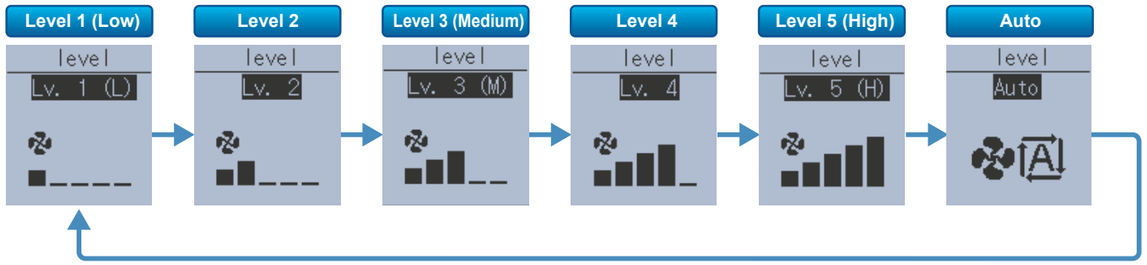
5-step: FCF and FHA series
3-step: FBA and FAA series

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

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

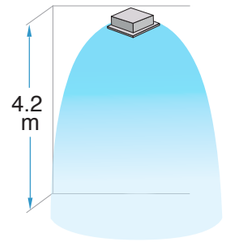






Also convenient for high ceilings and spaces with long blow distances

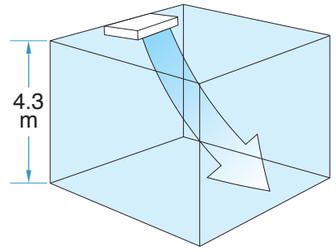
Cassette type <Round Flow>: maximum 4.2 m*



See page 19

*Maximum 4.2 m for FCF100, 125, 140
Maximum 3.5 m for FCF50, 60, 71

Ceiling suspended type: maximum 4.3 m



See page 26

*Field setting with remote controller

More Economy or Comfort in Special Situations

High sensible cooling enables even greater power savings

In locations such as simple server rooms, dehumidification is not required and greater power savings are possible with 'High sensible cooling' mode.

*Available with RZF-C series.
Field setting with remote controller.

High dehumidification cooling provides even greater comfort

In restaurants and other spaces where many people gather, 'High dehumidification cooling' mode reduces humidity and creates greater comfort.

*Available with RZF100-140CVM, 71-140CYM models.
Field setting on outdoor unit.

Cassette air conditioner with 360° uniform airflow sets the standard

NEW

FCF/50/60/71/100/125/140CVM

ROUND FLOW

Option

Accessory required for indoor unit.

Navigation Remote Controller

(Wired Remote Controller)

NEW

BRC1E63

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

Wireless LCD remote controller

A signal receiver must be added to the indoor unit.

Cooling only

NEW

BRC7M635F
(Fresh white)

BRC7M635K
(Black)

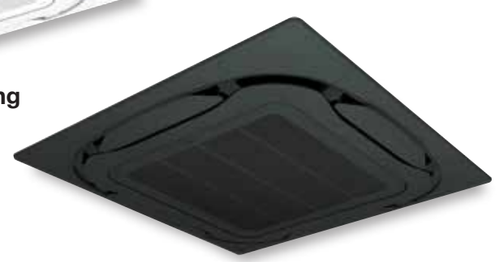
Signal receiver unit (Installed type)

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

Panel variations

Panel With Sensing (Fresh White)

Panel (Fresh White)



Panel (Black)

Circulation Airflow

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

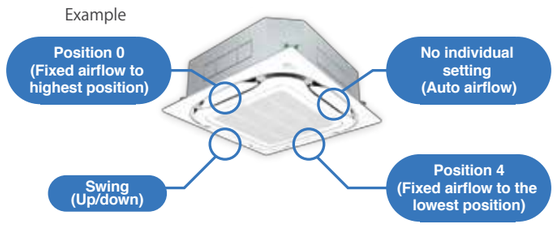
Cooling operation repeatedly performs the following at start.

- 2-way horizontal flow
- 4-way swing flow
- 2-way horizontal flow (direction changes)
- 4-way swing flow

Individual Airflow Direction Control

Airflow direction can be individually adjusted for each air discharge outlet to deliver optimal air distribution that conforms to conditions for airflow direction (small and large loads)
Selectable from position 0 to 4, swing, and no individual setting.

Example



360° Airflow

With uniform temperature distribution

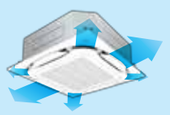
Airflow distribution creates uniform comfort throughout the space.

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

Selectable Airflow Pattern

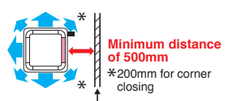
Because air flows out from corner outlets, comfort spreads more widely.

Typical flow patterns There are a total of 18 flow patterns.

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

4-way flow also possible.

Required distance to wall surface for closing air discharge outlet



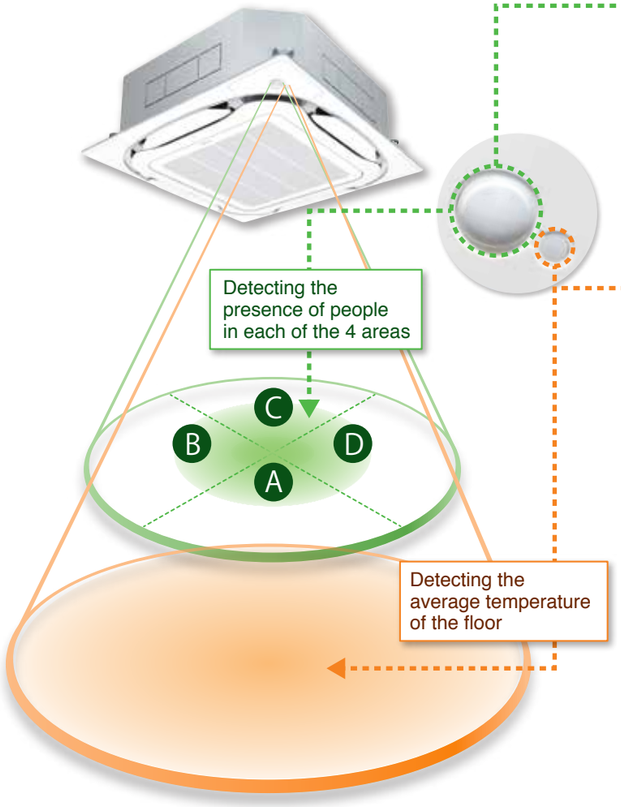
Note:
- Whatever the discharge direction, the same type of panel is used. If installing for other than all-round flow, an air discharge outlet sealing material (option) must be used to close each unused outlet.
- Operation sound increases when using 2-way or 3-way flow.

Daikin Sensing Technology*1,2

*1. Applicable when sensing panel (BYCQ125EEF) is installed.
*2. Applicable when wired remote controller BRC1E63 is used.

Dual Sensors*1

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.

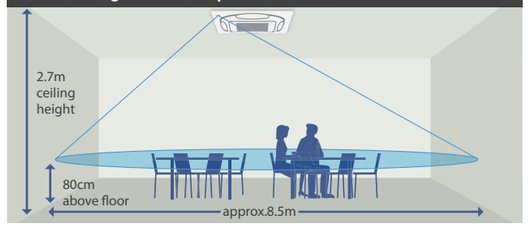
Infrared floor sensor

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.

Standard range for infrared presence sensor *



*[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.

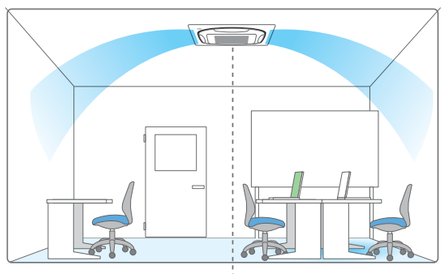
[Concerning infrared floor sensor]
- The detected temperature may sometimes be affected by a heat source, window, or device emitting heat in the detection range.

Auto Airflow Function*5

*5.Airflow direction should be set to “Auto”.

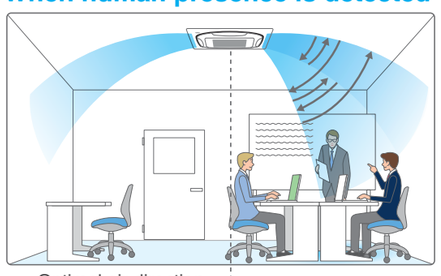
Direct Airflow (default: OFF) Cooling Dry

When human presence is not detected



Optimal air direction by “Auto”

When human presence is detected



Optimal air direction by “Auto” → Swing (narrow)

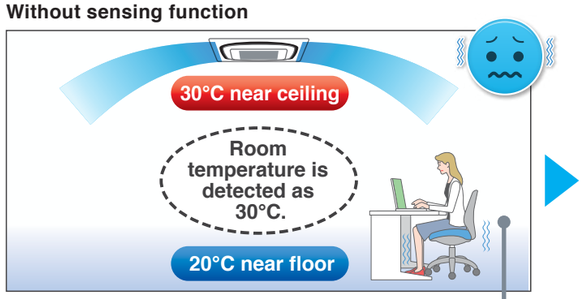
- With “Auto” airflow direction mode, flaps are controlled to deliver optimal airflow when the room is unoccupied.
- When presence is detected, air direction is set to “Swing (narrow)” to deliver cool air to users.

Comfort and Energy Saving Preventing Overcooling*6

*6.Airflow direction and airflow rate should be set to “Auto”.

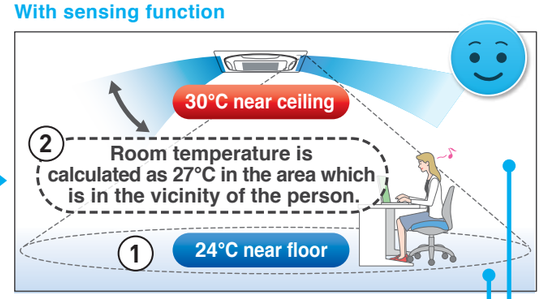
Floor temperature is detected and overcooling prevented. Cooling

Without sensing function



Area around feet gets too cold because the air conditioner continues until the temperature near the ceiling reaches the set temperature.

With sensing function



The floor temperature, which is lower than near the ceiling, is detected.

Automatic control using the temperature near the person as the room temperature.

Energy savings **The temperature near the person is automatically calculated by detecting the temperature of the floor. Energy is saved because the area around the feet does not get too cold.**

Sensing Sensor Functions*7,8

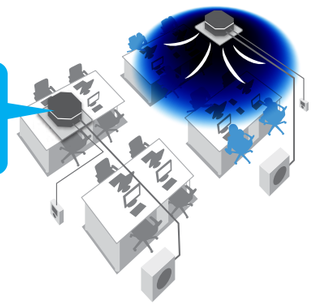
*7. These functions are not available when using the group control system.
*8. User can set these functions with remote controller.

Sensing sensor low mode (default: OFF)

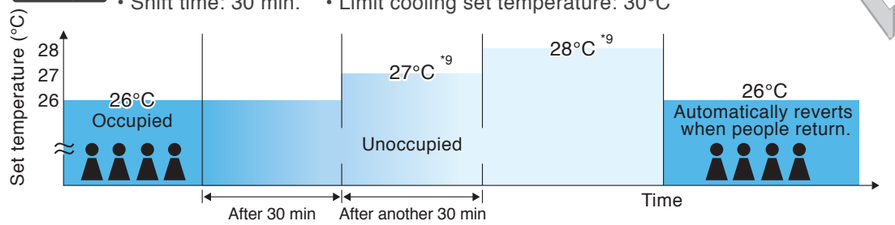
When there are no people in a room, the set temperature is shifted automatically.

- 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



If people do not return, the air conditioner will raise the set temperature 1°C every 30 minutes and then operate at 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.

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

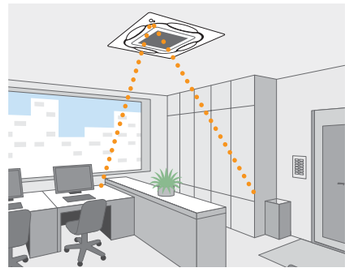
Sensing sensor stop mode (default: OFF)

When there are no people in a room, the system stops automatically.*10,11

- 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.

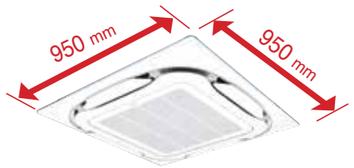
*10.Please note that upon re-entering the room, the air conditioner will not switch on automatically.
*11.To protect the machine, the standby system may operate temporarily.



Comfort

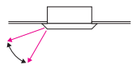
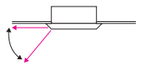
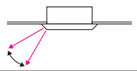
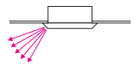
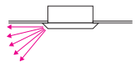
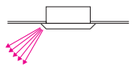
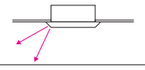
Unified square panels

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.



Same for all models

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

Control of airflow rate has been improved from 3-step to 5-step.
Auto airflow rate is newly available.

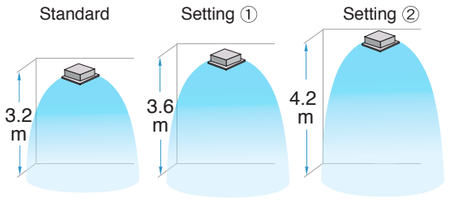
Quiet operation

dB(A)

Indoor unit	Sound pressure level				
	H	HM	M	ML	L
50-71C	37.0	34.5	32.0	29.5	27.5
100C	45.0	41.5	38.0	35.0	32.5
125/140C	46.0	43.0	40.0	36.0	32.5

Suitable for high ceilings

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



When all round flow is selected, ceilings up to 4.2 m in height can be accommodated. (100-140C)

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

		Number of air discharge outlets used							
		50-71C				100–140C			
		All round flow	4-way flow	3-way flow	2-way flow	All round flow	4-way flow	3-way flow	2-way flow
Ceiling height	Standard	2.7 m	3.1 m	3.0 m	3.5 m	3.2 m	3.4 m	3.6 m	4.2 m
	High ceiling ①	3.0 m	3.4 m	3.3 m	3.8 m	3.6 m	3.9 m	4.0 m	4.2 m
	High ceiling ②	3.5 m	4.0 m	3.5 m	—	4.2 m	4.5 m	4.2 m	—

Note:
・Factory settings are for standard ceiling height and all-round flow.
・High ceiling settings (1) and (2) are set with the remote controller by field setting.
High-efficiency filters are not available for high ceiling applications.

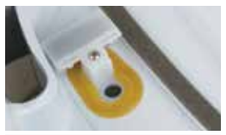
Humidity sensor

Not only temperature but also humidity is detected, and adjustments are made for comfortable air conditioning.

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

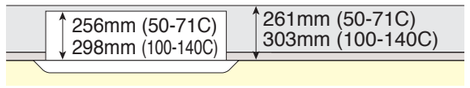
Prevents mould and microorganisms growing out of the dust and moisture that adheres to the filters.

Quick and Easy Installation

Lightweight

All models can be installed without using a lifter.

Installable in tight ceiling spaces

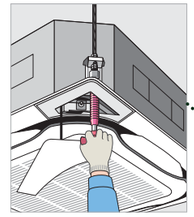


* When the ceiling space is limited, an optional panel spacer is available. (see P.22)

Easy height adjustment

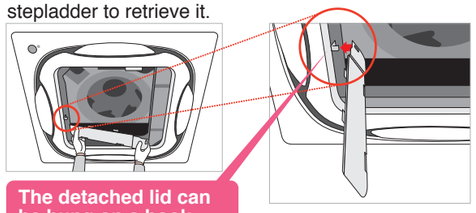
Each corner of the unit has an adjuster pocket that lets you easily adjust the unit's suspended height.

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

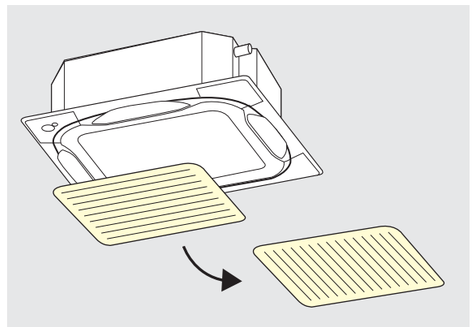
Because the control box lid can be temporarily hung on the unit, there is no need to climb down the stepladder to retrieve it.



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.

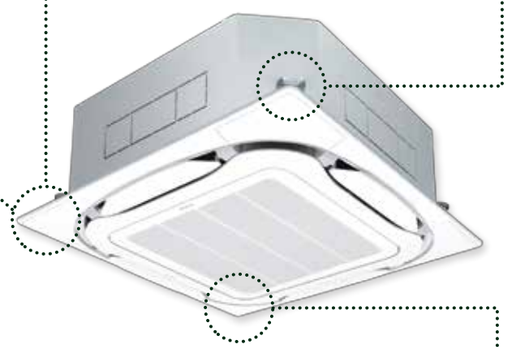


Easy hanging

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

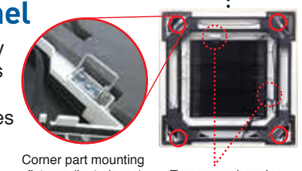
Easy removal of corner cover

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



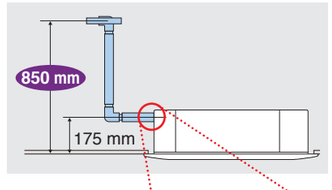
Ease in temporary hanging of decoration panel

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



Drain pump

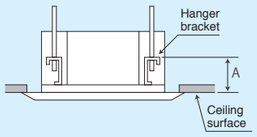
Equipped as standard accessory with 850 mm lift.



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.



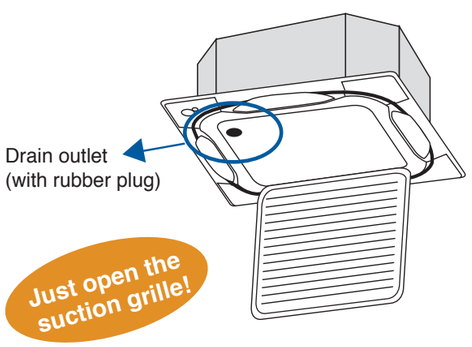
	A Dimensions
Panel	125-130mm
Chamber option*+ panel	175-180mm

*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.



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)

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

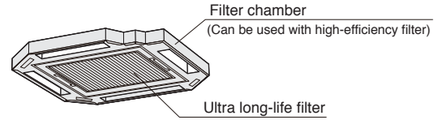
Low gas pressure detection

Options

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

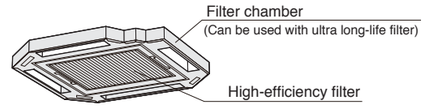
*For dust concentration of 0.3 mg/m³ (Requires separately sold Air purifier.)
1 year (Approx. 5,000 hr) ≒ 15 hr/day x 28 day/month x 12 month/year

Ordinary store or office: filter change every 4 years

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

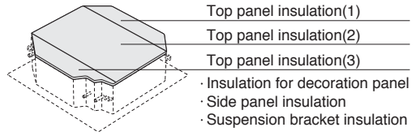
High-efficiency filter unit

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



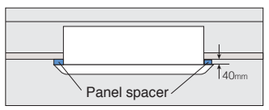
Insulation kit for high humidity

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



Panel spacer

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



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

Sealing material of air discharge outlet

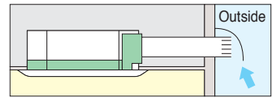
Sealing material block air discharge openings not used in 2-way or 3-way blow.

Branch duct (direct-connection round duct)

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

Fresh air intake kit Note 1.2

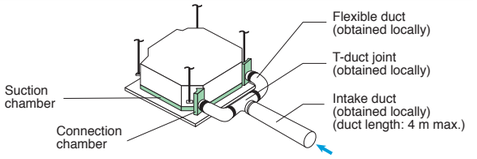
Using this kit, a duct can be connected to take in outdoor air. There are two chamber types that have intake in two places: with T-duct joint and without T-duct joint.



The units can be installed in the following different ways

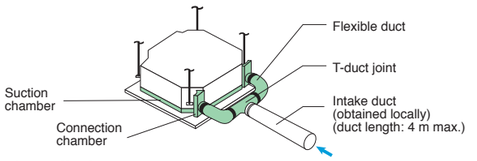
Chamber type (without T-duct joint) Note 3.4.5

KDDP55B160



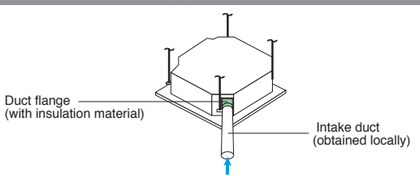
Chamber type (with T-duct joint) Note 3.4.5

KDDP55B160K



Direct installation type Note 6

KDDP55X160A



Note:
1. Use of options will increase operating sound.
2. Connecting ducts, fan, insect nets, fire dampers, air filters, and other parts should, as required, be obtained locally.
3. When a local-obtained fan is used, an interlock with air conditioner is necessary.Optional PCB (KRP1C11A) is required for interlocking.
4. When installing a fresh air intake kit (chamber type), two air outlet corners are closed.
5. 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.
6. 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.

Thinner design allows greater installation flexibility

NEW

FBA50/60/71/100/125/140BVMA

Option

Accessory required for indoor unit.

Navigation Remote Controller

(Wired Remote Controller)

NEW

BRC1E63

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

Wireless LCD remote controller

A signal receiver must be added to the indoor unit.

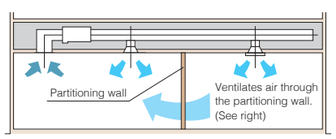
Cooling only **BRC4C66**

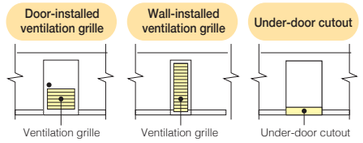
Signal receiver unit (Separate type)

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

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.

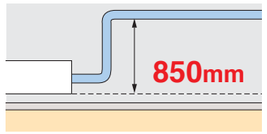
245mm

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

Indoor unit		50/60/71B	100/125/140B
Height	(mm)	245	
Width	(mm)	1,000	1,400
Depth	(mm)	800	

Higher lift is realized

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

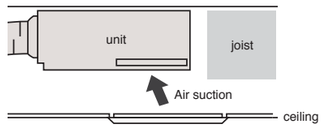


Middle & High static pressure type (FBQ-D series)

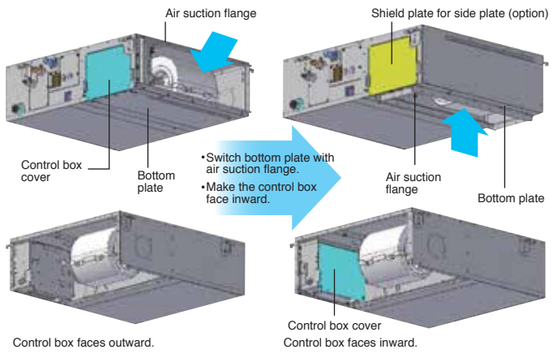
700mm

Bottom suction is available

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



Rear suction | Bottom suction



Comfort

Switchable fan speed: 3 steps and Auto

Clean

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.)

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.

50 Pa ⟷ 150 Pa

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.

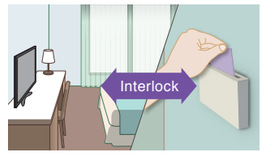
Comfort airflow is achieved in accordance with conditions such as duct length.

Airflow rate auto adjustment function

Controls the airflow rate using a remote controller during test run.
It is automatically adjusted to approximately ±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.

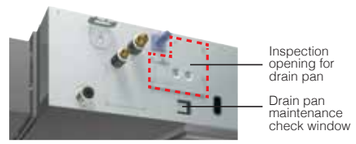
Easy Maintenance

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.



High Efficiency

DC fan motor and DC drain pump

These are utilised to improve energy efficiency.

Comfortable airflow travels throughout the room

NEW

FHA50/60/71/100/125/140BVMA

Option

Accessory required for indoor unit.

Navigation Remote Controller

(Wired Remote Controller)

NEW

BRC1E63

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

Wireless LCD remote controller

A signal receiver must be added to the indoor unit.

Cooling only **BRC7M56**

Signal receiver unit (Installed type)

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

Stylish Model

Sophisticated design

Flap neatly closes when not in use.

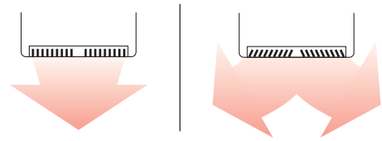
White colour

Comfortable

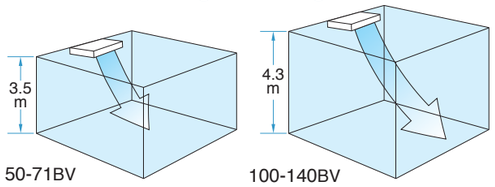
The technology of the DC fan motor, wide sirocco fan, and large heat exchanger combine for greater airflow and quiet operation

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



	50-71B	100B	125/140B
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

Control of airflow rate has been improved from 3-step to 5-step.
Auto airflow rate is newly available.

Quiet Operation

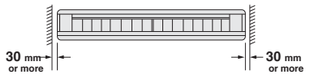
dB(A)

Indoor unit	Sound pressure level				
	H	HM	M	ML	L
50/60B	37.0	36.0	35.0	33.5	32.0
71B	38.0	37.0	36.0	35.0	34.0
100B	42.0	40.0	38.0	36.0	34.0
125B	44.0	42.5	41.0	39.0	37.0
140B	46.0	44.0	42.0	40.0	38.0

Installation Flexibility for Freedom of Design

Flexible installation

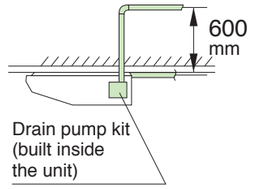
The unit fits more snugly into tight spaces.



*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.

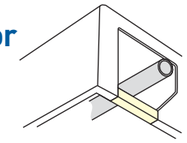


DIII-NET communication standard

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

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

Easier piping work for rear side by removable frame



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.

Easy-clean, flat surfaces

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

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.

Compact design and easy installation

NEW

FAA100BVMA

Option

Accessory required for indoor unit.

Navigation Remote Controller

(Wired Remote Controller)

NEW

BRC1E63

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

Wireless LCD remote controller

A signal receiver must be added to the indoor unit.

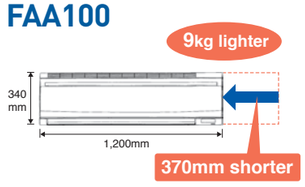
Cooling only **BRC7EB519**

Signal receiver unit (Installed type)

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

Compact & Sophisticated Design

FAA100



	FAQ100BV	FAA100B
Height	360mm	**340mm**
Width	1,570mm	**1,200mm**
Depth	200mm	**240mm**
Weight	26kg	**17kg**

Flaps neatly close when not in use

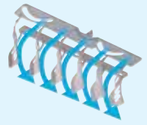
Fresh white colour

Comfortable

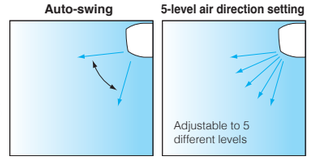
Auto swing (up and down) and wide-angle louvers (left and right by hand) facilitate even room temperature

Wide-angle louvers (by hand)

Soft material louver bends airflow over a wider area

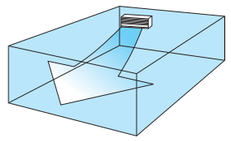


An air discharge modes ensure comfortable air distribution across the entire room



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.



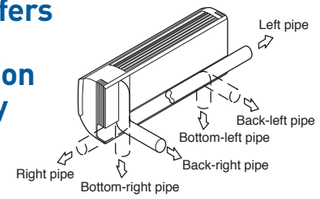
Switchable fan speed: 3 steps and Auto

Programme "Dry"

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

Design and Installation Flexibility

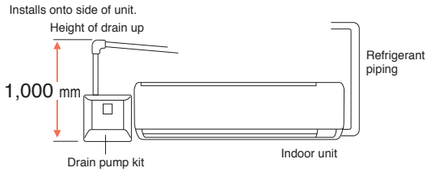
6-direction refrigerant piping offers greater installation flexibility



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

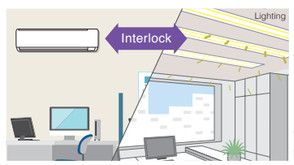


Drain pump kit can be installed on either left and right side of the indoor unit.

Interlock control

As an energy saving feature, the room air conditioning unit 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.

Easy Cleaning

Removable and washable grille

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.

Compact Outdoor Unit

RZF50CVM
RZF60CVM
RZF71CVM

RZF71CYM
RZF100CVM
RZF100CYM

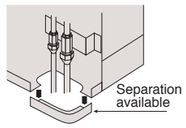
RZF125CVM
RZF125CYM
RZF140CVM
RZF140CYM

Easy Installation and Maintenance

4-direction piping offers greater layout freedom (RZF125-140C)

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 (RZF125-140C)



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

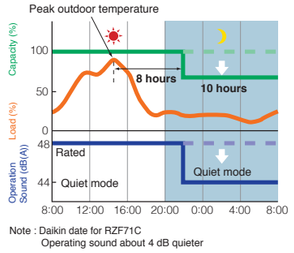
Effective gas monitoring reduces the labor required for operation, maintenance, and repairs.

Night Quiet Operation Mode

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

★ Reducing noise will reduce capacity slightly.

Cooling only	Sound pressure level[1] (dB(A))	
	Rated[2]	Night Quiet Mode
RZF50-71C	48	44
RZF100C	49	45
RZF125C	52	45
RZF140C	54	45



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

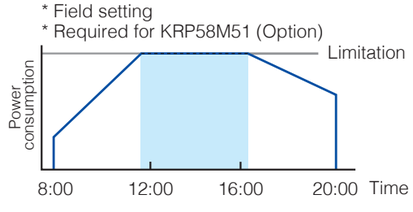
Note : Daikin date for RZF71C
Operating sound about 4 dB quieter

Demand Control Function

By setting limits that restrict power consumption, you can cut electricity bills

(RZF100-140CVM, 71-140CYM)

Maximum power use is maintained within a set level of system capacity. This enables effective demand control while maintaining comfort. Maximum power consumption can be set at 40, 60, 70, 80, or 100%.

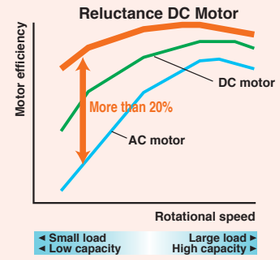


Technology for energy efficiency

The high efficiency compressor to achieve a high COP

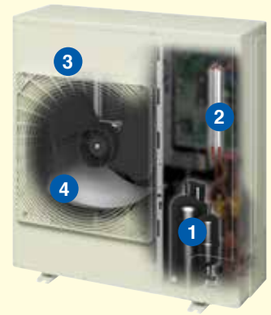
1 Compressor equiped with reluctance DC motor

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.

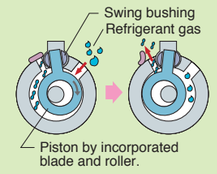
*1. A neodymium magnet is approximately 10 times stronger than a standard ferrite magnet.
*2. The torque created by the change in power between the iron and magnet parts.



Swing compressor

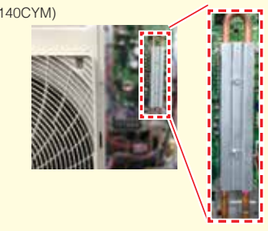
High efficiency during partial load operation.

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



2 Refrigerant cooling (RZF100-140CVM, RZF71-140CYM)

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

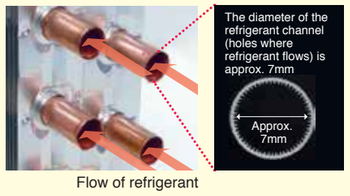


Refrigerant cooling helps protect the printed circuit board and maintains high cooling capacity even during high outdoor temperatures.

3 High efficiency by micro channel heat exchanger

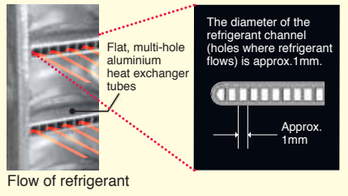
Reduced wind resistance
The flattening of the heat exchanger tubes improves the flow of air and increases heat exchange efficiency.

Conventional tube and fin coil

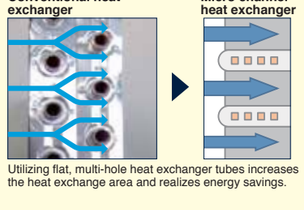


Flow of refrigerant

Micro channel coil



Flow of refrigerant

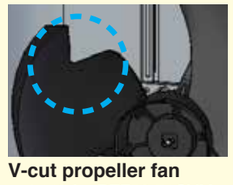


Utilizing flat, multi-hole heat exchanger tubes increases the heat exchange area and realizes energy savings.

4 Fan

V-cut Propeller Fan (RZF50-100C)

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
Φ440 for RZF50-71CVM
Φ550 for RZF100CVM, RZF71-100CYM

Imitating the performance of the swan

Easy-to-read LCD remote controller allows various system control configurations and can control multiple indoor units.

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

Navigation Remote Controller
(Wired LCD Remote Controller)

NEW

BRC1E63

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

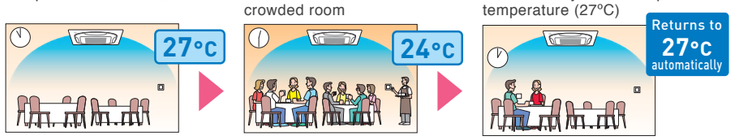
Energy saving

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

Restaurant opened	Full tables at lunchtime	After 30 minutes*
Temperature is set to 27°C	Then is lowered to 24°C for crowded room	Automatically returns to preset temperature (27°C)



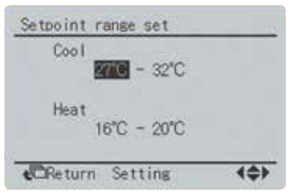
*Preset-return time can be set at 30, 60, 90, or 120 min

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

NEW 5-step airflow control

- The number of airflow steps depends on the type of indoor unit.
  5-step control applies to 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.

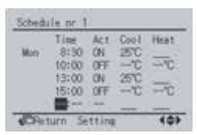
Note:
*1 Availability of this function may vary according to model (limited to partial functionality)
*2 Time setting is necessary.
*3 This function cannot be used during group control.
*4 This is a reference value for comparison and is not intended as a value for investigation purposes in the calculation 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)



NEW 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 LCD remote controller

NEW

BRC7M635F
Signal receiver unit
(For ceiling mounted cassette type)

- 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.
- NEW Backlight LCD of new wireless remote controller

Pressing the backlight button helps operating in dark rooms.

Wireless remote controller for each indoor unit type

		Cooling only
NEW	CEILING MOUNTED CASSETTE TYPE	BRC7M635F (Fresh white) BRC7M635K (Black)
	DUCT CONNECTION MIDDLE STATIC PRESSURE TYPE	BRC4C66
NEW	CEILING SUSPENDED TYPE	BRC7M56
	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 model name and failure display functions. This facilitates service in the unlikely event of a malfunction.
  (Model name display function applies to BRC1E63 only.)

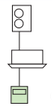
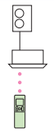
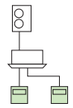
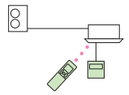
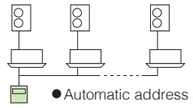
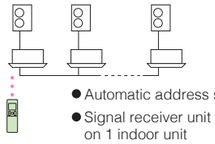
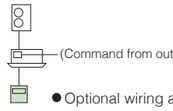
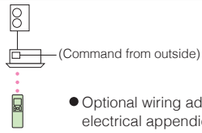
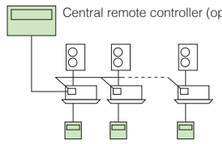
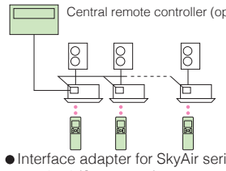
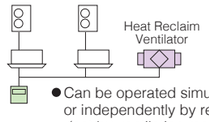
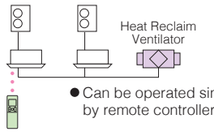
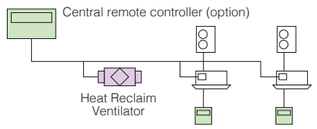
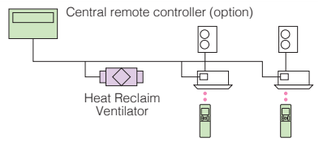
SkyAir shares common control with Heat Reclaim Ventilator and the other Daikin air-conditioning units, thus simplifying interlocking operations.

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

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) ● 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.	 (Command from outside) ● Optional wiring adaptor for electrical appendices is necessary	 (Command from outside) ● Optional wiring adaptor for electrical appendices is necessary
Centralised remote control	Centralised control of up to 64 indoor groups from remote location up to 1 km away.	 Central remote controller (option) ● Interface adapter for SkyAir series (option) is required (See note 3)	 Central remote controller (option) ● Interface adapter for SkyAir series (option) is required (See note 3)
Interlock control with Heat Reclaim Ventilator	Link by remote controller group control.	 Heat Reclaim Ventilator ● Can be operated simultaneously or independently by remote controller (set by ventilation mode)	 Heat Reclaim Ventilator ● Can be operated simultaneously by remote controller
	Zone link control by centralised control.	 Central remote controller (option) Heat Reclaim Ventilator ● Heat Reclaim Ventilator for indoor units within a zone is operated by interlocking. Can also be operated independently by remote controller.	 Central remote controller (option) Heat Reclaim Ventilator ● Heat Reclaim Ventilator for indoor units within a zone is operated by interlocking.

Note: [1]BRC1E62 can connect to BRC1E62 only. BRC1E63 can connect BRC1E63 only. [2] When a wireless remote controller is used, it is not possible to use 2 wireless remote controllers. Combination of BRC1E63 (main) and BRC7M (sub) is available.

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

Central remote controller
DCS302CA61 (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.

Unified on/off controller
DCS301BA61 (Option)

Centralised control of on/off by group or all at once for up to 256 indoor units.

Schedule timer
DST301BA61 (Option)

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.

intelligent touch Controller
DCS601C51 (Option)

With its high functionality, the full colour “all-in-one” graphic controller facilitates management of SkyAir System in a variety of ways.

Whatever your space, give it the comfort it deserves

Functions overview

Cooling only

			CEILING MOUNTED CASSETTE TYPE〈Round Flow〉	DUCT CONNECTION MIDDLE STATIC PRESSURE TYPE		CEILING SUSPENDED TYPE		WALL MOUNTED TYPE	
		Indoor unit	FCF50-140CVM	FBA50-140BVMA		FHA50-140BVMA		FAA100BVMA	
		Outdoor unit	RZF50-140CVM RZF71-140CYM	RZF50-140CVM RZF71-100CYM		RZF50-140CVM RZF71-140CYM		RZF100CVM RZF100CYM	
		Remote controller Wired	BRC1E63	BRC1E63	——	BRC1E63	——	BRC1E63	——
		Remote controller Wireless	——	——	BRC4C66	——	BRC7M56	——	BRC7EB519
Energy Saving	1	Energy consumption monitoring *1	●						
	2	Sensing sensor stop mode *1	● Sensing panel						
	3	Sensing sensor low mode *1, 2	● Sensing panel						
	4	Auto display OFF *1	●	●		●		●	
	5	Setpoint auto reset *1	●	●		●		●	
	6	Setpoint range set *1	●	●		●		●	
	7	OFF timer (programmed) *1	●	●		●		●	
	8	Weekly schedule timer *1	●	●		●		●	
	9	ON/OFF timer			●		●		●
Comfort	10	Circulation airflow *1	●						
	11	Setback *1	●	●		●		●	
	12	Quick start *1	●	●		●		●	
	13	Individual airflow control *1	●						
	14	Infrared presence sensor	● Sensing panel						
	15	Infrared floor sensor	● Sensing panel						
	16	Humidity sensor	●						
	17	Auto airflow function *1	● Sensing panel						
	18	Auto swing	●		●		●		●
	19	Swing pattern selection	●		●				
	20	Switchable fan speed	● 5 step	● 3 step	● 3 step	● 5 step	● 5 step	● 3 step	● 3 step
	21	Auto airflow rate	●	●		●	●	●	
	22	High fan speed mode						●	
	23	Two selectable temperature-sensors *1	●	●		●		●	
	24	High ceiling application	● 3.5m / 4.2m			● 3.5m / 4.3m			
	25	Night quiet operation *3	●	●		●		●	
Cleanliness	26	Anti-bacterial air filter	●	●		●			
	27	Mould-proof air filter						●	
	28	Silver ion anti-bacterial drain pan	●	●					
Work & Servicing	29	Drain pump mechanism	●	●		● *6		● *6	
	30	Pre-charged for up to 30 m *3	●	●		●		●	
	31	Long-life filter	●	● *6		●			
	32	Filter sign	●	●	●	●	●	●	●
	33	Low gas pressure detection *3	●	●		●		●	
	34	Emergency operation	●	●		●		●	
	35	Self-diagnosis function	●	●	●	●	●	●	●
	36	Service contact display *1	●	●		●		●	
Control	37	Auto-restart	●	●		●		●	
	38	Control by 2 remote controllers	●	● *7		●	● *7	●	
	39	Group control by 1 remote controller	●	●	●	●	●	●	●
	40	External equipment interlock *4	● Sensing panel						
	41	External signal forced OFF and ON/OFF operation	●	●		●		●	
	42	External command control *5	●	●		●		●	
	43	Central remote control	●	●		●		●	
	44	Interlock control with Heat Reclaim Ventilator	●	●		●		●	
	45	DIII-NET communication standard	●	●		●		●	
Options	46	High-efficiency filter	●	●					
	47	Ultra long-life filter	●						
	48	Fresh air intake kit	●			●			
	49	Overvoltage PCB *3	●	●		●		●	

Note: *1: Applicable when BRC1E63 is used *2: Not applicable when group control *3: For outdoor units
*5: Wiring adaptor for electrical appendices (and installation box) is necessary *6: Option is requied

*4: Adaptor for Wiring (and installation box) is necessary
*7: It is not possible to use 2 wireless remote controllers. Combination of BRC1E63 (main) and BRC7M (sub) is available.

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. Humidity sensor
Not only temperature but also humidity is detected, and adjustments are made for comfortable air conditioning.

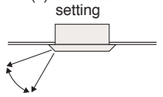
17. Auto airflow function
When this function is set, airflow direction can be directed toward or away from people when human presence is detected.

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

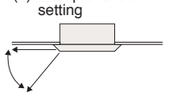
■ The air flow direction can be fixed at your desired angle by the remote controller.

19. Swing pattern selection
You can freely set air discharge settings by remote controller.

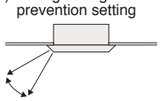
(1) Standard setting



(2) Draft prevention setting



(3) Ceiling soiling prevention setting

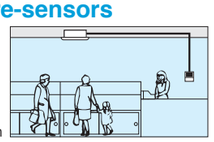


20. Switchable fan speed
High setting provides maximum reach while low setting minimises drafts.

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

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

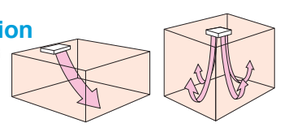
23. Two selectable temperature-sensors
Temperature-sensors are included in the indoor unit and optional wired remote controller. Temperature sensing closer to target area is possible to further increase the comfort level.



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

Note: Wireless remote controllers have no temperature-sensor.

24. 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.

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

Cleanliness

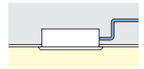
26. Anti-bacterial air filter
The air filter has an anti-bacterial treatment to help prevent the growth of bacteria and mould on it.

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.

Work & Servicing

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



30. 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.

31. 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/m^3

32. 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.

33. 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.

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

35. 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.

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

Control

37. 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.

38. 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.
Combination of BRC1E63 (main) and BRC7M (sub) is available.

39. 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.)

40. 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 though the interlock of external equipment, such as lighting, with the infrared presence sensor.
*Adaptor for Wiring (and installation box) is necessary.

41. 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.

42. 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.

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

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

45. DIII-NET communication standard
Connection to a centralised control system is available without need for an optional adaptor.

Options

46. High-efficiency filter
Two types are available: 65% and 90% colorimetry.

47. Ultra long-life filter
Requires no maintenance for about 4 years* (10,000h) in stores and offices.
*For dust concentration of 0.15 mg/m^3

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

49. Overvoltage PCB
Optional circuit eliminates the need for a stabiliser and offer additional protection for devices in the outdoor unit, such as its fan motor and compressor.

CEILING MOUNTED CASSETTE TYPE (1 Phase)

				50	60	71	100	125	140
Model Name	Indoor unit			FCF50CVM	FCF60CVM	FCF71CVM	FCF100CVM	FCF125CVM	FCF140CVM
	Outdoor unit			RZF50CVM	RZF60CVM	RZF71CVM	RZF100CVM	RZF125CVM	RZF140CVM
Power supply	Outdoor unit			1 Phase, 220–240V, 50Hz					
Cooling Capacity [1,2] Rated (Min. - Max.)			kW	5.0 (3.2-5.6)	6.0 (3.2-6.0)	7.1 (3.2-8.0)	10.0 (5.0-11.2)	12.5 (5.7-14.0)	14.0 (6.2-15.5)
			Btu/h	17,100 (10,900-19,100)	20,500 (10,900-20,500)	24,200 (10,900-27,300)	34,100 (17,100-38,200)	42,700 (19,500-47,800)	47,800 (21,200-52,900)
Power consumption	Cooling		kW	1.14	1.53	1.93	2.97	4.18	5.47
COP			W/W	4.39	3.92	3.68	3.37	2.99	2.56
CSPF			Wh/Wh	6.60	6.31	6.17	5.50	5.15	5.00
Indoor unit	Colour	Unit		———					
		Decoration panel		Fresh white					
	Airflow rate (H / HM / M / ML / L)		m³/min	23.0 / 21.0 / 18.5 / 16.0 / 13.5			34.5 / 31.0 / 27.5 / 24.0 / 20.0	36.5 / 33.0 / 29.0 / 25.0 / 21.0	
			cfm	812 / 741 / 653 / 565 / 477			1,218 / 1,094 / 971 / 847 / 706	1,288 / 1,165 / 1,024 / 883 / 741	
	Sound pressure level [3] (H / HM / M / ML / L)		dB(A)	37.0 / 34.5 / 32.0 / 29.5 / 27.5			45.0 / 41.5 / 38.0 / 35.0 / 32.5	46.0 / 43.0 / 40.0 / 36.0 / 32.5	
	Dimensions (H×W×D)	Unit	mm	256×840×840			298×840×840		
		Decoration panel	mm	50×950×950					
	Machine weight	Unit	kg	22			24		
		Decoration panel	kg	5.5					
	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	1.30			1.60	2.40	
	Refrigerant charge (R32)		kg	1.2(Charged for 30 m)			1.3(Charged for 30 m)	1.9(Charged for 30 m)	
	Sound pressure level [3]	Cooling	dB(A)	48			49	52	54
		Night quiet mode	dB(A)	44			45		
	Dimensions (H×W×D)		mm	595×845×300			695×930×350	990×940×320	
	Machine weight		kg	41			48	64	
	Certified Operation range		°CDB	21 to 46					
Piping connections	Liquid (Flare)		mm	Φ9.5					
	Gas (Flare)		mm	Φ15.9					
	Drain	Indoor unit	mm	VP25 (I.D.Φ25×O.D.Φ32)					
		Outdoor unit	mm	Φ26.0 (Hole)			Φ18.0 (Hole)	Φ26.0 (Hole)	
Max. interunit piping length			m	50 (Equivalent length 70)					
Max. installation level difference			m	30					
Heat insulation				Both liquid and gas piping					

CEILING MOUNTED CASSETTE TYPE (3 Phase)

				71	100	125	140
Model Name	Indoor unit			FCF71CVM	FCF100CVM	FCF125CVM	FCF140CVM
	Outdoor unit			RZF71CYM	RZF100CYM	RZF125CYM	RZF140CYM
Power supply	Outdoor unit			3 Phase, 380–415V, 50Hz			
Cooling Capacity [1,2] Rated (Min. - Max.)			kW	7.1 (3.2-8.0)	10.0 (5.0-11.2)	12.5 (5.7-14.0)	14.0 (6.2-15.5)
			Btu/h	24,200 (10,900-27,300)	34,100 (17,100-38,200)	42,700 (19,500-47,800)	47,800 (21,200-52,900)
Power consumption	Cooling		kW	1.93	2.97	4.18	5.47
COP			W/W	3.68	3.37	2.99	2.56
CSPF			Wh/Wh	6.17	5.50	5.15	5.00
Indoor unit	Colour	Unit		———			
		Decoration panel		Fresh white			
	Airflow rate (H / HM / M / ML / L)		m³/min	23.0 / 21.0 / 18.5 / 16.0 / 13.5	34.5 / 31.0 / 27.5 / 24.0 / 20.0	36.5 / 33.0 / 29.0 / 25.0 / 21.0	
			cfm	812 / 741 / 653 / 565 / 477	1,218 / 1,094 / 971 / 847 / 706	1,288 / 1,165 / 1,024 / 883 / 741	
	Sound pressure level [3] (H / HM / M / ML / L)		dB(A)	37.0 / 34.5 / 32.0 / 29.5 / 27.5	45.0 / 41.5 / 38.0 / 35.0 / 32.5	46.0 / 43.0 / 40.0 / 36.0 / 32.5	
	Dimensions (H×W×D)	Unit	mm	256×840×840	298×840×840		
		Decoration panel	mm	50×950×950			
	Machine weight	Unit	kg	22	24		
		Decoration panel	kg	5.5			
	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	1.60	2.40		
	Refrigerant charge (R32)		kg	1.3(Charged for 30 m)	1.9(Charged for 30 m)		
	Sound pressure level [3]	Cooling	dB(A)	48	49	52	54
		Night quiet mode	dB(A)	44	45		
	Dimensions (H×W×D)		mm	695×930×350	990×940×320		
	Machine weight		kg	48	64		
	Certified Operation range		°CDB	21 to 46			
Piping connections	Liquid (Flare)		mm	Φ9.5			
	Gas (Flare)		mm	Φ15.9			
	Drain	Indoor unit	mm	VP25 (I.D.Φ25×O.D.Φ32)			
		Outdoor unit	mm	Φ18.0 (Hole)	Φ26.0 (Hole)		
Max. interunit piping length			m	50 (Equivalent length 70)			
Max. installation level 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, 19.0°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.

DUCT CONNECTION MIDDLE STATIC PRESSURE TYPE (1 Phase)

				50	60	71	100	125	140
Model Name	Indoor unit			FBA50BVMA	FBA60BVMA	FBA71BVMA	FBA100BVMA	FBA125BVMA	FBA140BVMA
	Outdoor unit			RZF50CVM	RZF60CVM	RZF71CVM	RZF100CVM	RZF125CVM	RZF140CVM
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 (3.2-5.6)	6.0 (3.2-6.0)	7.1 (3.2-8.0)	10.0 (5.0-11.2)	12.5 (5.7-14.0)	14.0 (6.2-15.5)
			Btu/h	17,100 (10,900-19,100)	20,500 (10,900-20,500)	24,200 (10,900-27,300)	34,100 (17,100-38,200)	42,700 (19,500-47,800)	47,800 (21,200-52,900)
Power consumption	Cooling		kW	1.35	1.64	2.15	3.01	4.44	5.69
COP			W/W	3.70	3.66	3.30	3.32	2.82	2.46
CSPF			Wh/Wh	5.51	5.30	5.19	4.88	4.70	4.47
Indoor unit	Colour			———					
	Fan	Airflow rate (H/M/L)	m³/min	18.0 / 15.0 / 12.5		23.0 / 19.5 / 16.0	32.0 / 27.0 / 22.5	36.0 / 30.5 / 25.0	
			cfm	635 / 530 / 441		812 / 688 / 565	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)	35.0 / 33.0 / 31.0		38.0 / 35.0 / 33.0		40.0 / 37.5 / 35.0	
	Air filter [5]			———					
	Dimensions (H×W×D)		mm	245×1000×800			245×1400×800		
	Machine weight		kg	37			47		
	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	1.30			1.60	2.40	
	Refrigerant charge (R32)		kg	1.2(Charged for 30 m)			1.3(Charged for 30 m)	1.9(Charged for 30 m)	
	Sound pressure level [4]	Cooling	dB(A)	48			49	52	54
		Night quiet mode	dB(A)	44			45		
	Dimensions (H×W×D)		mm	595×845×300			695×930×350	990×940×320	
	Machine weight		kg	41			48	64	
	Certified Operation range		°CDB	21 to 46					
Piping connections	Liquid (Flare)		mm	Φ9.5					
	Gas (Flare)		mm	Φ15.9					
	Drain	Indoor unit	mm	VP25 (I.D.Φ25×O.D.Φ32)					
		Outdoor unit	mm	Φ26.0 (Hole)			Φ18.0 (Hole)	Φ26.0 (Hole)	
Max. interunit piping length			m	50 (Equivalent length 70)					
Max. installation level difference			m	30					
Heat insulation				Both liquid and gas piping					

DUCT CONNECTION MIDDLE STATIC PRESSURE TYPE (3 Phase)

				71	100	125	140
Model Name	Indoor unit			FBA71BVMA	FBA100BVMA	FBA125BVMA	FBA140BVMA
	Outdoor unit			RZF71CYM	RZF100CYM	RZF125CYM	RZF140CYM
Power supply	Indoor unit			1 Phase, 220–240V, 50Hz			
	Outdoor unit			3 Phase, 380–415V, 50Hz			
Cooling Capacity [1,2] Rated (Min. - Max.)			kW	7.1 (3.2-8.0)	10.0 (5.0-11.2)	12.5 (5.7-14.0)	14.0 (6.2-15.5)
			Btu/h	24,200 (10,900-27,300)	34,100 (17,100-38,200)	42,700 (19,500-47,800)	47,800 (21,200-52,900)
Power consumption	Cooling		kW	2.15	3.01	4.44	5.69
COP			W/W	3.30	3.32	2.82	2.46
CSPF			Wh/Wh	5.19	4.88	4.70	4.47
Indoor unit	Colour			———			
	Fan	Airflow rate (H/M/L)	m³/min	23.0 / 19.5 / 16.0	32.0 / 27.0 / 22.5	36.0 / 30.5 / 25.0	
			cfm	812 / 688 / 565	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)	38.0 / 35.0 / 33.0		40.0 / 37.5 / 35.0	
	Air filter [5]			———			
	Dimensions (H×W×D)		mm	245×1000×800	245×1400×800		
	Machine weight		kg	37	47		
	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	1.60	2.40		
	Refrigerant charge (R32)		kg	1.3(Charged for 30 m)	1.9(Charged for 30 m)		
	Sound pressure level [4]	Cooling	dB(A)	48	49	52	54
		Night quiet mode	dB(A)	44	45		
	Dimensions (H×W×D)		mm	695×930×350	990×940×320		
	Machine weight		kg	48	64		
	Certified Operation range		°CDB	21 to 46			
Piping connections	Liquid (Flare)		mm	Φ9.5			
	Gas (Flare)		mm	Φ15.9			
	Drain	Indoor unit	mm	VP25 (I.D.Φ25×O.D.Φ32)			
		Outdoor unit	mm	Φ18.0 (Hole)	Φ26.0 (Hole)		
Max. interunit piping length			m	50 (Equivalent length 70)			
Max. installation level 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, 19.0°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.

CEILING SUSPENDED TYPE (1 Phase)

				50	60	71	100	125	140
Model Name	**Indoor unit**			**FHA50BVMA**	**FHA60BVMA**	**FHA71BVMA**	**FHA100BVMA**	**FHA125BVMA**	**FHA140BVMA**
	Outdoor unit			**RZF50CVM**	**RZF60CVM**	**RZF71CVM**	**RZF100CVM**	**RZF125CVM**	**RZF140CVM**
Power supply	Outdoor unit			1 Phase, 220–240V, 50Hz					
Cooling Capacity [1,2] Rated (Min. - Max.)			kW	5.0 (3.2-5.5)	6.0 (3.2-6.0)	7.1 (3.2-8.0)	10.0 (5.0-11.2)	12.5 (5.7-14.0)	14.0 (6.2-15.5)
			Btu/h	17,100 (10,900-19,100)	20,500 (10,900-20,500)	24,200 (10,900-27,300)	34,100 (17,100-38,200)	42,700 (19,500-47,800)	47,800 (21,200-52,900)
Power consumption		Cooling	kW	1.20	1.53	2.30	3.24	4.29	5.40
COP			W/W	4.17	3.92	3.09	3.09	2.91	2.59
CSPF			Wh/Wh	6.30	6.11	5.91	5.17	5.09	4.78
Indoor unit	Colour			White					
	Airflow rate (H / HM / M / ML / L)		m^3/min	15.0 / 13.5 / 12.0 / 11.0 / 10.0		20.5 / 18.8 / 17.0 / 15.5 / 14.0	28.0 / 26.0 / 24.0 / 22.0 / 20.0	31.0 / 29.0 / 27.0 / 25.0 / 23.0	34.0 / 31.5 / 29.0 / 26.5 / 24.0
			cfm	530 / 477 / 424 / 388 / 353		724 / 664 / 600 / 547 / 494	988 / 918 / 847 / 777 / 706	1,094 / 1,024 / 953 / 883 / 812	1,200 / 1,112 / 1,024 / 935 / 847
	Sound pressure level [3] (H / HM / M / ML / L)		dB(A)	37.0 / 36.0 / 35.0 / 33.5 / 32.0		38.0 / 37.0 / 36.0 / 35.0 / 34.0	42.0 / 40.0 / 38.0 / 36.0 / 34.0	44.0 / 42.5 / 41.0 / 39.0 / 37.0	46.0 / 44.0 / 42.0 / 40.0 / 38.0
	Dimensions (H×W×D)		mm	235×960×690		235×1270×690	235×1590×690		
	Machine weight		kg	25		32	38		
	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	1.30			1.60	2.40	
	Refrigerant charge (R32)		kg	1.2(Charged for 30 m)			1.3(Charged for 30 m)	1.9(Charged for 30 m)	
	Sound pressure level [3]	Cooling	dB(A)	48			49	52	54
		Night quiet mode	dB(A)	44				45	
	Dimensions (H×W×D)		mm	595×845×300			695×930×350	990×940×320	
	Machine weight		kg	41			48	64	
	Certified Operation range		°CDB	21 to 46					
Piping connections	Liquid (Flare)		mm	Φ9.5					
	Gas (Flare)		mm	Φ15.9					
	Drain	Indoor unit	mm	VP20 (I.D.Φ20×O.D.Φ26)					
		Outdoor unit	mm	Φ26.0 (Hole)			Φ18.0 (Hole)	Φ26.0 (Hole)	
Max. interunit piping length			m	50 (Equivalent length 70)					
Max. installation level difference			m	30					
Heat insulation				Both liquid and gas piping					

CEILING SUSPENDED TYPE (3 Phase)

				71	100	125	140
Model Name	**Indoor unit**			**FHA71BVMA**	**FHA100BVMA**	**FHA125BVMA**	**FHA140BVMA**
	Outdoor unit			**RZF71CYM**	**RZF100CYM**	**RZF125CYM**	**RZF140CYM**
Power supply	Outdoor unit			3 Phase, 380–415V, 50Hz			
Cooling Capacity [1,2] Rated (Min. - Max.)			kW	7.1 (3.2-8.0)	10.0 (5.0-11.2)	12.5 (5.7-14.0)	14.0 (6.2-15.5)
			Btu/h	24,200 (10,900-27,300)	34,100 (17,100-38,200)	42,700 (19,500-47,800)	47,800 (21,200-52,900)
Power consumption		Cooling	kW	2.30	3.24	4.29	5.40
COP			W/W	3.09	3.09	2.91	2.59
CSPF			Wh/Wh	5.91	5.17	5.09	4.78
Indoor unit	Colour			White			
	Airflow rate (H / HM / M / ML / L)		m^3/min	20.5 / 18.8 / 17.0 / 15.5 / 14.0	28.0 / 26.0 / 24.0 / 22.0 / 20.0	31.0 / 29.0 / 27.0 / 25.0 / 23.0	34.0 / 31.5 / 29.0 / 26.5 / 24.0
			cfm	724 / 664 / 600 / 547 / 494	988 / 918 / 847 / 777 / 706	1,094 / 1,024 / 953 / 883 / 812	1,200 / 1,112 / 1,024 / 935 / 847
	Sound pressure level [3] (H / HM / M / ML / L)		dB(A)	38.0 / 37.0 / 36.0 / 35.0 / 34.0	42.0 / 40.0 / 38.0 / 36.0 / 34.0	44.0 / 42.5 / 41.0 / 39.0 / 37.0	46.0 / 44.0 / 42.0 / 40.0 / 38.0
	Dimensions (H×W×D)		mm	235×1270×690	235×1590×690		
	Machine weight		kg	32	38		
	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	1.60		2.40	
	Refrigerant charge (R32)		kg	1.3(Charged for 30 m)		1.9(Charged for 30 m)	
	Sound pressure level [3]	Cooling	dB(A)	48	49	52	54
		Night quiet mode	dB(A)	44	45		
	Dimensions (H×W×D)		mm	695×930×350		990×940×320	
	Machine weight		kg	48		64	
	Certified Operation range		°CDB	21 to 46			
Piping connections	Liquid (Flare)		mm	Φ9.5			
	Gas (Flare)		mm	Φ15.9			
	Drain	Indoor unit	mm	VP20 (I.D.Φ20×O.D.Φ26)			
		Outdoor unit	mm	Φ18.0 (Hole)		Φ26.0 (Hole)	
Max. interunit piping length			m	50 (Equivalent length 70)			
Max. installation level 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, 19.0°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.

WALL MOUNTED TYPE (1 Phase, 3 Phase)

				100	
Model Name	**Indoor unit**			**FAA100BVMA**	
	Outdoor unit			**RZF100CVM**	**RZF100CYM**
Power supply	Outdoor unit			1 Phase, 220–240V, 50Hz	3 Phase, 380-415V, 50Hz
Cooling Capacity [1,2] Rated (Min. - Max.)			kW	10.0 (5.0-11.2)	
			Btu/h	34,100 (17,100-38,200)	
Power consumption		Cooling	kW	3.60	
COP			W/W	2.78	
CSPF			Wh/Wh	4.05	
Indoor unit	Colour			Fresh white	
	Airflow rate (H/M/L)		m^3/min	26.0 / 23.0 / 19.0	
			cfm	918 / 812 / 671	
	Sound pressure level [3] (H/M/L)		dB(A)	49 / 45 / 41	
	Dimensions (H×W×D)		mm	340×1200×240	
	Machine weight		kg	17	
	Certified Operation range		°CWB	14 to 25	
Outdoor unit	Colour			Ivory white	
	Coil	Type		Miclo channel	
	Compressor	Type		Hermetically sealed swing type	
		Motor output	kW	1.60	
	Refrigerant charge (R32)		kg	1.3 (Charged for 30 m)	
	Sound pressure level [3]	Cooling	dB(A)	49	
		Night quiet mode	dB(A)	45	
	Dimensions (H×W×D)		mm	695×930×350	
	Machine weight		kg	48	
	Certified Operation range		°CDB	21 to 46	
Piping connections	Liquid (Flare)		mm	Φ9.5	
	Gas (Flare)		mm	Φ15.9	
	Drain	Indoor unit	mm	VP13 (I.D.Φ13×O.D.Φ18)	
		Outdoor unit	mm	Φ18.0 (Hole)	
Max. interunit piping length			m	50 (Equivalent length 70)	
Max. installation level 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, 19.0°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.

Indoor unit

CEILING MOUNTED CASSETTE TYPE

	Name of option		Remark		Kit name					
					FCF50CVM	FCF60CVM	FCF71CVM	FCF100CVM	FCF125CVM	FCF140CVM
1	Decoration panel	Panel with Sensing	Fresh white		BYCQ125EEF					
		Panel	Fresh white		BYCQ125EAF					
		Panel	Black		BYCQ125EAK					
2	Sealing material of air discharge outlet [1]		For usage of 3-, 4-way flow		KDBH551C160					
			For usage of 2-way flow		KDBH552C160					
3	Panel spacer				KDBP55H160FA					
4	Fresh air intake kit		Chamber type [2,3]	Without T-duct joint	KDDP55B160 (Components: KDDP55C160-1, KDDP55B160-2) [5]					
				With T-duct joint	KDDP55B160K (Components: KDDP55C160-1, KDDP55B160K2) [5]					
			Direct installation type [4]		KDDP55X160A					
5	High-efficiency filter unit (Including filter chamber)		(Colorimetric method 65%)		KAFP556C80			KAFP556C160		
			(Colorimetric method 90%)		KAFP557C80			KAFP557C160		
6	Replacement high-efficiency filter [6]		(Colorimetric method 65%)		KAFP552B80			KAFP552B160		
			(Colorimetric method 90%)		KAFP553B80			KAFP553B160		
7	Filter chamber				KDDFP55C160					
8	Replacement long-life filter				KAFP551K160					
9	Ultra long-life filter unit (Including filter chamber)				KAFP55C160					
10	Replacement ultra long-life filter [6]				KAFP55H160H					
11	Branch duct chamber [1]				KDJP55C80			KDJP55C160		
12	Insulation kit for high humidity [7]				KDTP55K80			KDTP55K160		
13	Remote controller		Wireless type	Cooling only	BRC7M635F (Fresh white) / BRC7M635K (Black)					
14	Navigation remote controller		Wired type [8]		BRC1E63					
15	Central remote controller [9]				DCS302CA61					
16	Unified ON/OFF controller [9]				DCS301BA61					
17	Schedule timer [9]				DST301BA61					
18	Intelligent Touch Controller [9]				DCS601C51					
19	Adaptor for wiring [10]				KRP1C11A					
22	Wiring adaptor for electrical appendices [10]				KRP4AA53					
23	Installation box for adaptor PCB				KRP1H98A					
24	Remote sensor (for indoor temperature)				KRCS01-5B					

Note: [1]Circulation airflow is not available with this option.
[2]When installing a fresh air intake kit (chamber type), two air outlet corners are closed.
[3]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.
[4]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.
[5]Please order using the names of both components instead of set name.
[6]Filter chamber is required.
[7]Please use in case temperature/humidity inside ceiling may get over 30˚C, 80% RH.
[8]Wiring for wired remote controller should be obtained locally.
[9]The indoor unit is equipped standardly with the interface adapter for SkyAir series. An option is unnecessary.
[10]Installation box for adaptor PCB(KRP1H98A) is necessary.

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

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

All round flow・4-way flow

Independently installable optional parts \ Optional accessory parts		Panel spacer[1]	Fresh air intake kit (Chamber type)[1,2]	Fresh air intake kit (Direct installation type)	Insulation kit for high humidity	High-efficiency filter unit[2]	Ultra long-life filter unit[2]
Panel/grille related	Panel spacer[1]		O	O	X	O	O
Auxillary function related	Fresh air intake kit (Chamber type)[1,2]	O		X	X	O	O
	Fresh air intake kit (Direct installation type)	O	X		O	O	O
	Insulation kit for high humidity	X	X	O		X	X
Filter related	High-efficiency filter unit[2]	O	O	O	X		X
	Ultra long-life filter unit[2]	O	O	O	X	X	

3-way flow・2-way flow [5]

Independently installable optional parts \ Optional accessory parts		Panel spacer[1,3]	Fresh air intake kit (Chamber type)[1,2]	Fresh air intake kit (Direct installation type)	Insulation kit for high humidity	High-efficiency filter unit[2]	Ultra long-life filter unit[2]
Panel/grille related	Panel spacer[1,3]		△	△	X	X	△
Auxillary function related	Fresh air intake kit (Chamber type)[1,2]	△		X	X	X	O
	Fresh air intake kit (Direct installation type)	△	X		O	X	O
	Insulation kit for high humidity	X	X	O		X	X
Filter related	Ultra long-life filter unit[2]	△	O	O	X	X	

Branch duct connection

Independently installable optional parts \ Optional accessory parts		Panel spacer[1]	Fresh air intake kit (Chamber type)[1,2]	Fresh air intake kit (Direct installation type)	Insulation kit for high humidity	High-efficiency filter unit[2]	Ultra long-life filter unit[2]
Branch duct chamber [1] (Round duct type)	1-way branch / unit 3-way flow	O	O	O[4]	X	X	O
	2-way branch / unit 2-way flow	X	O	O[4]	X	X	O
	1-way branch / unit 2-way flow	X	O	O[4]	X	X	O

1. In some cases, depending on how the unit is embedded in the ceiling, use of branch ducts and fresh air intake kits may not be possible. Before starting installation work make sure to check whether or not joint installation is possible. In particular, ensure that the lower fixing position caused by the addition of panel spacers is acceptable.
When branch ducts 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. It is not possible to install a branch duct on the same side to which a fresh air intake kit (direct mount) is installed.
5. When 3-way or 2-way flow is selected, circulation airflow is not available.

Indoor unit

DUCT CONNECTION MIDDLE STATIC PRESSURE TYPE

No.	Name of option	Remark		Kit name					
				FBA50BVMA	FBA60BVMA	FBA71BVMA	FBA100BVMA	FBA125BVMA	FBA140BVMA
1	High-efficiency filter[1]	65%		KAFP632B80			KAFP632B160		
		90%		KAFP633B80			KAFP633B160		
2	Filter chamber(for rear suction)[1]			KDDFP63B80			KDDFP63B160		
3	Long-life filter[1]			KAFP631B80			KAFP631B160		
4	Service panel	White		KTBJ25K80W			KTBJ25K160W		
		Fresh white		KTBJ25K80F			KTBJ25K160F		
		Brown		KTBJ25K80T			KTBJ25K160T		
5	Air discharge adaptor			KDAP25A71A			KDAP25A140A		
6	Shield plate for side plate			KDBD63A160					
7	Remote controller	Wireless type	Cooling only	BRC4C66					
8	Navigation Remote Controller	Wired type[2]		BRC1E63					
9	Adaptor for wiring			KRP1C64 ★					
10	Wiring adaptor for electrical appendices(2)			KRP4AA51 ★					
11	Mounting plate for adaptor PCB.[3,4,5]			KRP4A98					
12	Remote sensor			KRCS01-4B					
13	Central remote controller[6]			DCS302CA61					
14	Unified ON/OFF controller[6]			DCS301BA61					
15	Schedule timer[6]			DST301BA61					
16	intelligent Touch Controller[6]			DCS601C51					

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 is necessary for each adaptor marked ★.
[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.

Indoor unit

CEILING SUSPENDED TYPE

No.	Name of option	Remark		Kit name					
				FHA50BVMA	FHA60BVMA	FHA71BVMA	FHA100BVMA	FHA125BVMA	FHA140BVMA
1	Replacement long-life filter	Resin net		KAFP501A56		KAFP501A80	KAFP501A160		
2	Fresh air intake kit			KDDQ50A140					
3	Drain pump kit			KDUP50Q160					
4	L-type piping kit (for upward direction)			KHFP5N160					
5	Remote controller	Wireless type	Cooling only	BRC7M56					
6	Navigation Remote Controller	Wired type [1]		BRC1E63					
7	Central remote controller [2]			DCS302CA61					
8	Unified ON/OFF controller [2]			DCS301BA61					
9	Schedule timer [2]			DST301BA61					
10	intelligent Touch Controller [2]			DCS601C51					
11	Adaptor for wiring [3]			KRP1BA54					
12	Wiring adaptor for electrical appendices [3]			KRP4AA52					
13	Installation box for adaptor PCB			KRP1D93A					
14	Adaptor box mounting plate			KKSAP50A56		———			
15	Remote sensor (for indoor temperature)			KRCS01-4B					
16	Electrical box with earth terminal (3 blocks)			KJB311AA					
17	Electrical box with earth terminal (2 blocks)			KJB212AA					

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.

WALL MOUNTED TYPE

No.	Name of option	Remark		Kit name
				FAA100BVMA
1	Drain-up kit			K-KDU572EVE
2	Remote controller	Wireless type	Cooling only	BRC7EB519
3	Navigation Remote Controller	Wired type [1]		BRC1E63
4	Wiring adaptor for electrical appendices(2)			KRP4AA51★
5	Installation box for adaptor PCB [2]			KRP4AA93
6	Central remote controller [3]			DCS302CA61
7	Unified ON/OFF controller [3]			DCS301BA61
8	Schedule timer [3]			DST301BA61
9	intelligent Touch Controller [3]			DCS601C51
10	Remote sensor (for Indoor temperature)			KRCS01-4B
11	Electrical box with earth terminal (3 blocks)			KJB311AA
12	Electrical box with earth terminal (2 blocks)			KEK26-1A
13	Noise filter (For electromagnetic interface use only)			KJB212AA

Note:
[1] Wiring for wired remote controller should be obtained locally.
[2] Installation box is necessary for each adaptor marked ★.
[3] The indoor unit is equipped standardly with the interface adaptor for SkyAir series. An option is unnecessary.

Outdoor unit

No.	Name of option		Kit name		
		1 Phase	RZF50/60/71CVM	RZF100CVM	RZF125/140CVM
		3 Phase	———	RZF71/100CYM	RZF125/140CYM
1	Central drain plug		KKP014A4	KKP937A4	KKPJ5G280
2	Fixture for preventing overturning		———	———	KKTP5B112
3	Wire fixture for preventing overturning		———	———	K-KYZP15C
4	Demand adaptor		———	KRP58M51	KRP58M51+EKMKSA1
5	Overvoltage PCB	1 Phase	BRV2BPSF	BRV2BPSS	BRV2BPL
		3 Phase	———	BRV2BPSS+BRV2BPSS	