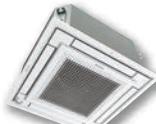


skyAir

Air Conditioning System

HEAT PUMP [50Hz]



R-32



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



Ceiling Mounted Cassette Type

⟨Round Flow⟩ with Streamer
⟨Round Flow⟩

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



Compact Multi Flow Ceiling Mounted Cassette Type

The fully flat cassette is a remarkable blend of iconic design and engineering excellence.



Ceiling Suspended Type

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



Wall Mounted Type

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



Duct Connection Low Static Pressure Type (Bulkhead duct)

Ideal for areas where a discreet installation is preferred.

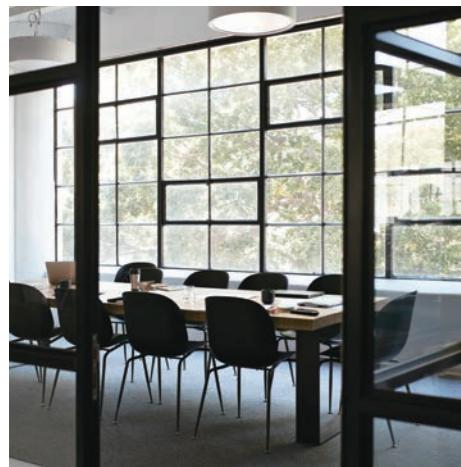


Duct Connection Middle Static Pressure Type

Compact form factor with powerful features for ultimate design flexibility.

Designed for air quality confidence in places where people gather

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



Contents

Lineup	P.5-6
DAIKIN SkyAir Series	P.7-16
Energy Saving, R-32	P.7
Durability, Height Compact	P.8
Reuse of Existing Piping	P.9-10
Quiet Operation	P.11
Smart Airflow Control	P.12
Design Flexibility	P.13
Convenient Functions	P.14
Streamer Filter Clean Function	P.15-16
Indoor Unit	P.17-40
Ceiling Mounted Cassette type <Round Flow> with Streamer <Round Flow>	P.17-30
Compact Multi Flow Ceiling Mounted Cassette Type	P.31-32
Ceiling Suspended Type	P.33-34
Wall Mounted Type	P.35-36
Duct Connection Low Static Pressure Type (Bulkhead duct)	P.37-38
Duct Connection Middle Static Pressure Type	P.39-40
Outdoor Unit	P.41-42
Remote Controller	P.43-46
Functions	P.47-50
Specifications	P.51-63
Options	P.64-69



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

		★<Round Flow> with Streamer ●<Round Flow>									
		25	35	50	60	71	85	100	125	140	
RZAV	C2V1	1 phase, 220-240V, 50Hz		★	●	●	●	●			
	F2V1							●	●	●	
	C2Y1	3 phase, 380-415V, 50Hz		●	●						
	F2Y1						●	●	●		
		25	35	50	60	71	85	100	125	140	
RZAC	C2V1	1 phase, 220-240V, 50Hz				●	●	●			
	F2V1								●		
	C2Y1	3 phase, 380-415V, 50Hz				●	●	●			
	F2Y1								●		

COMPACT MULTI FLOW CEILING MOUNTED CASSETTE TYPE

		Inverter series								
		25	35	50	60	71	85	100	125	140
RZAC	E2VM	1 phase, 220-240/220-230V, 50/60Hz		●	●	●	●	●		



CEILING SUSPENDED TYPE

		Premium Inverter series									
		25	35	50	60	71	85	100	125	140	
RZAV	C2V1	1 phase, 220-240V, 50Hz		●	●	●	●				
	F2V1							●	●	●	
	C2Y1	3 phase, 380-415V, 50Hz			●	●					
	F2Y1						●	●	●		



Outdoor unit



RZAC25/35E2VM
RZAC25/35G2V1



RZAV50/60C2V1
RZAC71C2V1
RZAC50/60G2V1



RXC50/60A2V1A



RZAC50/60/71E2VM
RZAC71G2V1



RZAV71/85C2V1
RZAV71/85C2Y1
RZAC85/100/125C2V1
RZAC85/100/125C2Y1



RXC71/85A2V1A



RZAV100/125/140F2V1
RZAV100/125/140F2Y1
RZAC140F2V1
RZAC140F2Y1



RXC100A2V1A



RZAV100C2Y1

WALL MOUNTED TYPE



FTXC-A
FAA-B
P.35

		Premium Inverter series	25	35	50	60	71	85	100	125	140
RXC	A2V1A	1 phase, 220-240V, 50Hz			●	●	●	●			
RZAV	C2Y1	3 phase, 380-415V, 50Hz				●	●	●	●		



DUCT CONNECTION LOW STATIC PRESSURE TYPE (Bulkhead duct)

		Inverter series	25	35	50	60	71	85	100	125	140
RZAC	G2V1	1 phase, 220-240V, 50Hz	●	●	●	●	●	●			



DUCT CONNECTION MIDDLE STATIC PRESSURE TYPE

		Premium Inverter series	25	35	50	60	71	85	100	125	140
RZAV	C2V1	1 phase, 220-240V, 50Hz				●	●	●			
	F2V1								●	●	
	C2Y1	3 phase, 380-415V, 50Hz					●	●			
	F2Y1								●	●	

FBA-B(A)
P.39

		Inverter series	25	35	50	60	71	85	100	125	140
RZAC	C2V1	1 phase, 220-240V, 50Hz						●	●		
	C2Y1	3 phase, 380-415V, 50Hz						●			

New Inverters launched

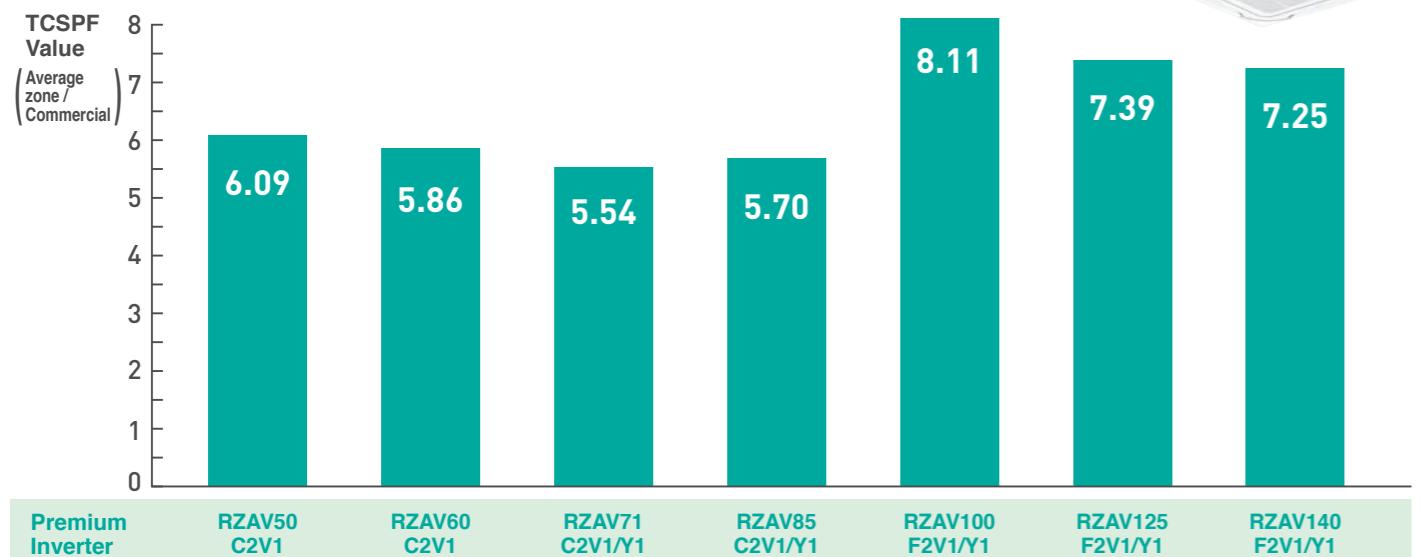


Energy Saving

- ◆ New premium inverter series achieves high TCSPF with latest Daikin technology.

● TCSPF values by capacity for cassette models

Premium inverter RZAV-C / F series
R-32 <cassette type>

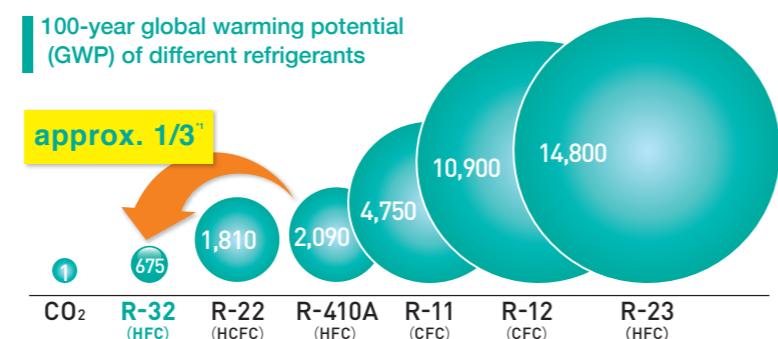


R-32

- ◆ From R-410A to R-32, 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 R-410A, use R-32.

Achieving new levels of energy efficiency while responding to environmental needs, Daikin has redesigned the SkyAir series from the ground up using R-32.



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

Durability

- ◆ High operation range up to 50°C (Premium Inverter series)

The outdoor operation range is now extended to 50°C. This enables reliable operation even under high temperature conditions, and wider choice of installation locations.



- ◆ 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.



- ◆ Coated printed circuit boards (outdoor unit)

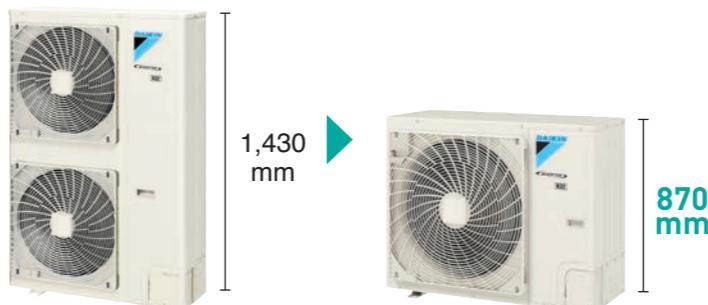
Coated circuit boards prevent problems caused by humidity and airborne dust. It also protects against salt contained in sea breezes. Both sides of the PCB in outdoor units are coated.



Height Compact

- ◆ Compact size and lightweight

New outdoor units from 10.0 kW to 14.0 kW class of RZAV series and 14.0 kW class of RZAC series are reduced to only 870 mm height.

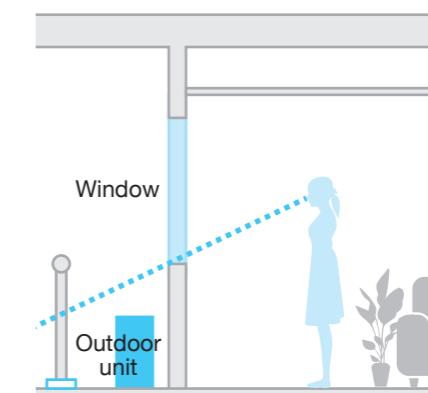


This low height casing design provides occupants with a clear, unobstructed view of the scenery.

● View from outside

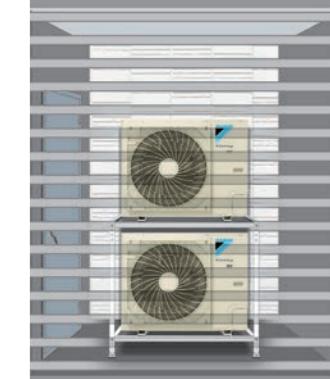


● View from inside



- ◆ Double-stacking installation possible

The low height casing design allows for compact double-stacking of outdoor units to maximize utilization of installation space.



Reuse of Existing Piping

RZAV & RZAC series now both feature R22 retrofit technology.

Benefit 1

◆ Simplified installation reduces replacement time and cost

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

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



These problems are

solved by Daikin!

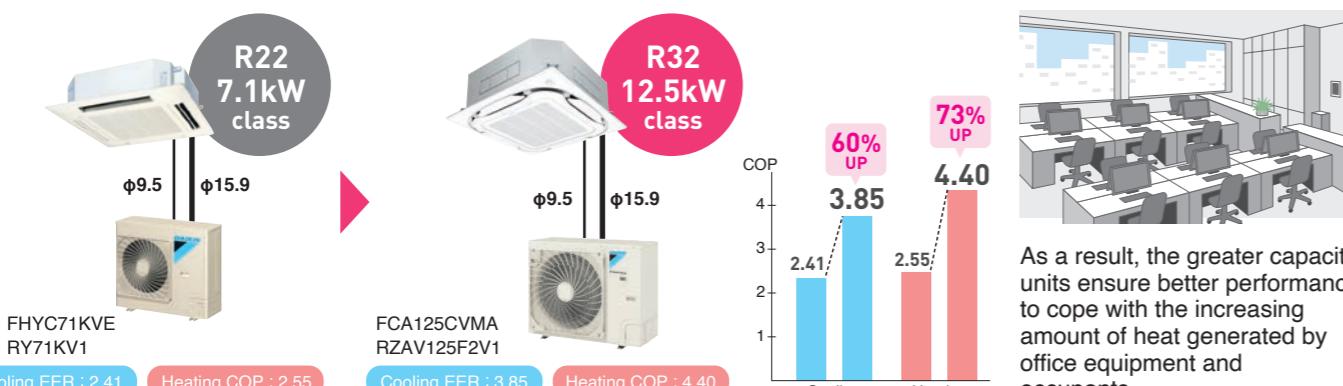
Where feasible, we reduce work costs and time by reusing existing pipes*.

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

Benefit 2

◆ You can increase cooling capacity and achieve higher energy efficiency

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



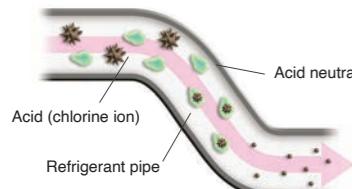
As a result, the greater capacity units ensure better performance to cope with the increasing amount of heat generated by office equipment and occupants.

◆ Technology

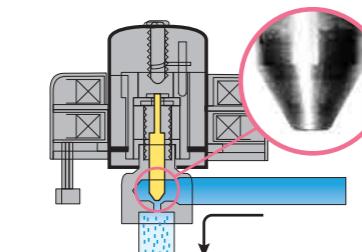
Advanced technology, including the use of corrosion resistant electronic expansion valves, acid neutralisers and improved compressor reliability, enables the re-use of existing piping* without the need of pipe flushing for a simplified replacement process.

Stronger refrigerating machine oil

An acid neutraliser agent is added to disable acids (chlorine ions), which cause corrosion.



Highly corrosion resistant electronic expansion valve



Highly reliable compressor

Compressor durability is improved by installing a filter or accumulator to collect solid foreign substances.



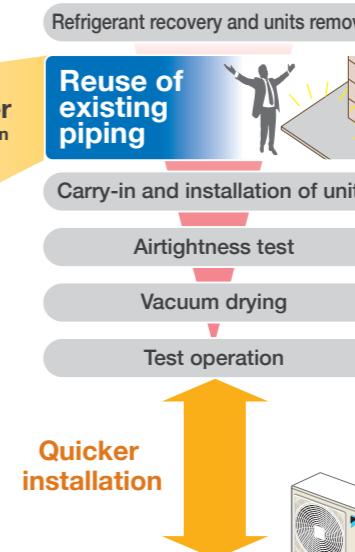
◆ Simplified Installation

Enables simplified air conditioner replacement with minimal impact on operations.

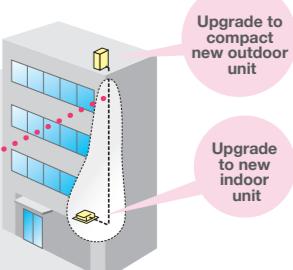
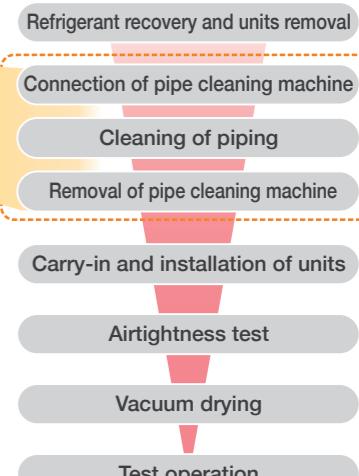
Previous installation process for replacement of air conditioning



Installation process for replacement with



If existing piping that can be reused needs cleaning:



Particularly convenient in these circumstances

- Pipes are buried and making new pipe installations difficult.
- Outdoor unit difficult to access.
- Multiple units are being upgraded at the same time.

Piping left as is

◆ Reuse of Existing Piping: Refrigerant Pipe Size Table

Outdoor Unit	Existing pipe size (Liquid / Gas)	6.4 / 12.7	6.4 / 15.9	9.5 / 12.7	9.5 / 15.9	9.5 / 19.1	12.7 / 15.9	12.7 / 19.1	Level difference	Design pressure (High pressure)
		Condition	Max. piping length	Chargeless piping length	Condition	Max. piping length	Chargeless piping length	Condition		
RZAV50/60C RXC50/60A	6.4 / 12.7	○	50m	25m	△	25m	—	—	Max. 30m	4.17MPa
		Max. piping length	30m	30m	15m	15m	—	—		
		Chargeless piping length	—	—	—	—	—	—		

Outdoor Unit	Existing pipe size (Liquid / Gas)	6.4 / 12.7	6.4 / 15.9	9.5 / 12.7	9.5 / 15.9	9.5 / 19.1	12.7 / 15.9	12.7 / 19.1	Level difference	Design pressure (High pressure)
		Condition	Max. piping length	Chargeless piping length	Condition	Max. piping length	Chargeless piping length	Condition		
RZAV71/85C RXC71-100A	9.5 / 15.9	■	10m*	10m*	▲	75m	75m	△	Max. 30m	4.17MPa
		Condition	Max. piping length	Chargeless piping length	Condition	Max. piping length	Chargeless piping length	Condition		
		Max. piping length	10m*	10m*	75m	75m	35m	35m		
		Chargeless piping length	10m	10m	30m	30m	15m	15m		

Outdoor Unit	Existing pipe size (Liquid / Gas)	6.4 / 12.7	6.4 / 15.9	9.5 / 12.7	9.5 / 15.9	9.5 / 19.1	12.7 / 15.9	12.7 / 19.1	Level difference	Design pressure (High pressure)
		Condition	Max. piping length	Chargeless piping length	Condition	Max. piping length	Chargeless piping length	Condition		
RZAV 100-140F	9.5 / 15.9	■	10m	10m	▲	85m	85m	35m	35m	Max. 30m
		Condition	Max. piping length	Chargeless piping length	Condition	Max. piping length	Chargeless piping length	Condition		
		Max. piping length	10m	10m	40m	40m	15m	15m		
		Chargeless piping length	10m	10m	30m	30m	15m	15m		

Outdoor Unit	Existing pipe size (Liquid / Gas)	6.4 / 12.7	6.4 / 15.9	9.5 / 12.7	9.5 / 15.9	9.5 / 19.1	12.7 / 15.9	12.7 / 19.1	Level difference	Design pressure (High pressure)
		Condition	Max. piping length	Chargeless piping length	Condition	Max. piping length	Chargeless piping length	Condition		
RZAC 71-125C 140F	9.5 / 15.9	○	50m	—	○	—	—	—	Max. 30m	4.17MPa
		Condition	Max. piping length	Chargeless piping length	Condition	Max. piping length	Chargeless piping length	Condition		
		Max. piping length	—	—	50m	—	—	—		
		Chargeless piping length	—	—	30m	—	—	—		

*The allowable minimum piping length is 5 m.

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

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

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

Quiet Operation

◆ Night quiet operation mode

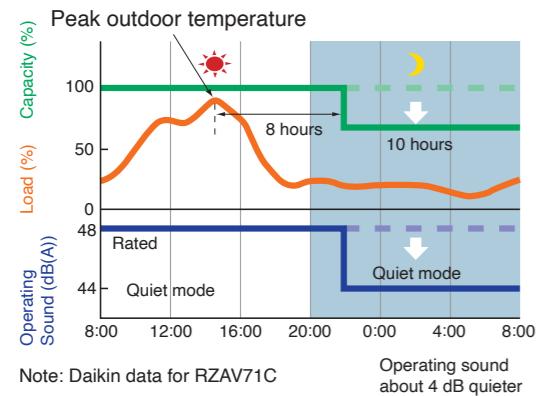
Consideration is given for people living nearby.
Outdoor unit operating sound can be reduced.



1. Field setting

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

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. (not available for RZAC25/35/71G2V1)



Note: Daikin data for RZAV71C

	Sound pressure level ¹ (dB(A))	
	Rated ²	Night Quiet Mode
RZAV50/60C2V1, 71C2V1/C2Y1 RXC50/60/71A2V1A	48	44
RZAV85C2V1/C2Y1 RXC85A2V1A	52	48
RZAV100C2V1 RXC100A2V1A	51	47
RZAV100F2V1/F2Y1	49	45
RZAV125F2V1/F2Y1	50	46
RZAV140F2V1/F2Y1	52	48

Note :

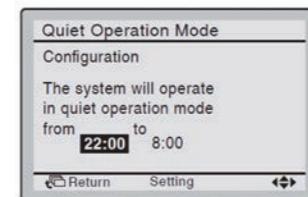
¹Anechoic chamber conversion value, measured according to JIS parameters and criteria.
During operation these values are somewhat higher owing to ambient conditions.

²Value when cooling. Value will differ when heating.

2. Navigation remote controller: BRC1E63 menu

• Setting with BRC1E63 menu for selecting the period of time freely.

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



◆ Quieter operations for 100 to 140 class

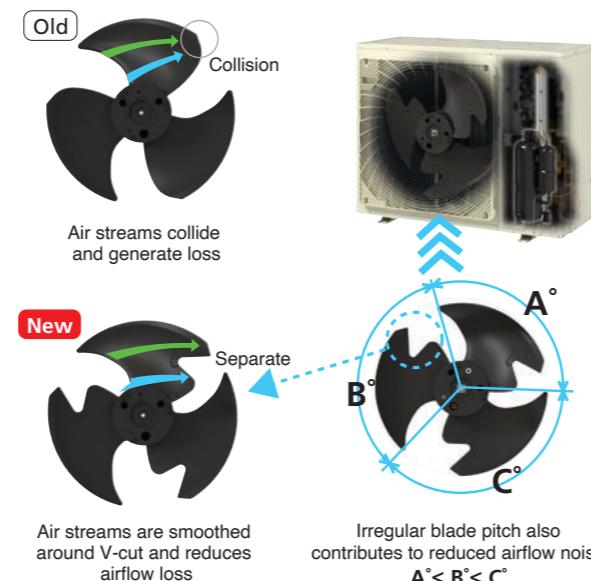
Operation sound of new outdoor unit from 10.0kW to 14.0kW class for RZAV series has reduced 5dB(A) at a maximum compared to current model.

	RZAV-C	RZAV-F
100	Cooling Heating	51 53
125	Cooling Heating	52 54
140	Cooling Heating	56 58

5dB(A) Down! at a maximum

◆ V-cut & irregular pitch propeller fan

The fan's V-cut enables streamlined and effective airflow.



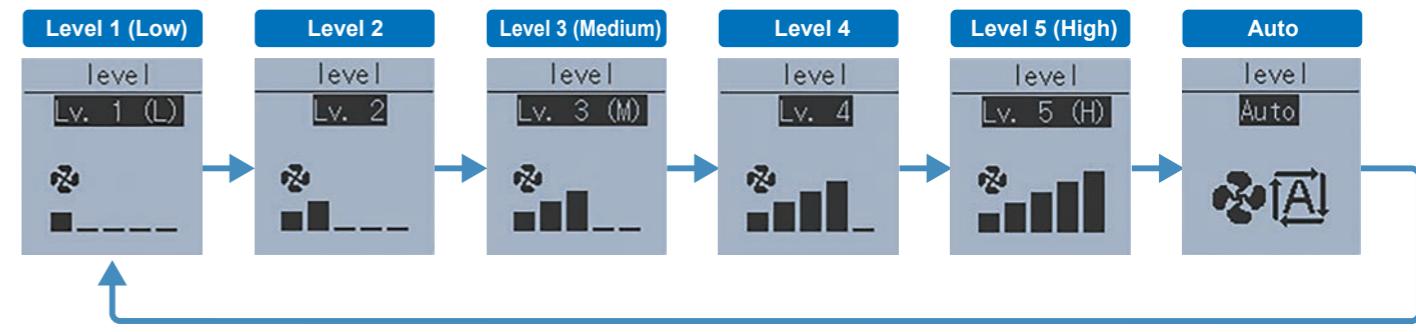
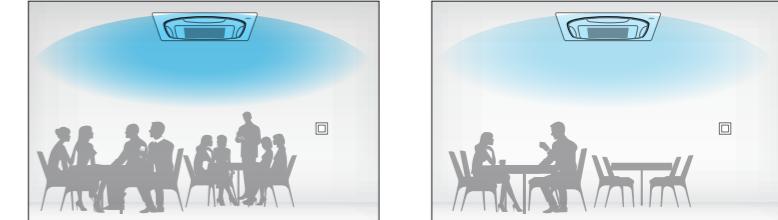
Smart Airflow Control

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

5-step: FCTA, FCA, FHA, and FDYBA series
3-step: FFA, FAA, FTXC, and FBA series

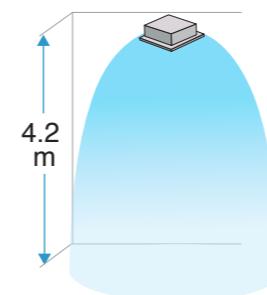
◆ Comfort ensured by 'Auto' airflow rate that matches load level

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

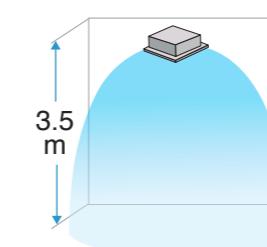


◆ Also convenient for high ceilings and spaces with long throw distances

Cassette type <Round Flow>:
maximum 4.2 m*



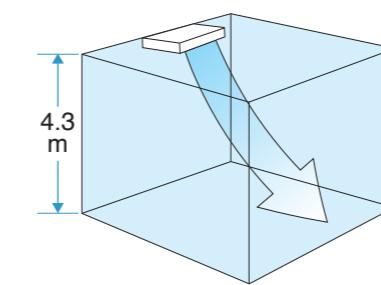
Compact multi flow ceiling mounted cassette type:
maximum 3.5 m



*Field setting with remote controller



Ceiling suspended type:
maximum 4.3 m*



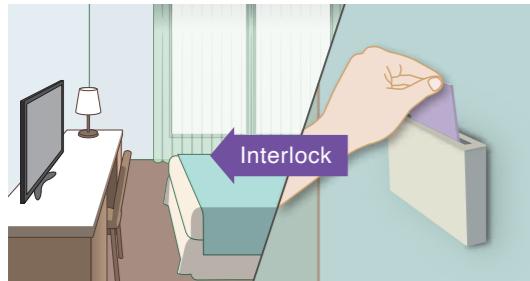
*Maximum 4.3 m for FHA85-140
Maximum 3.5 m for FHA50-71

Design Flexibility

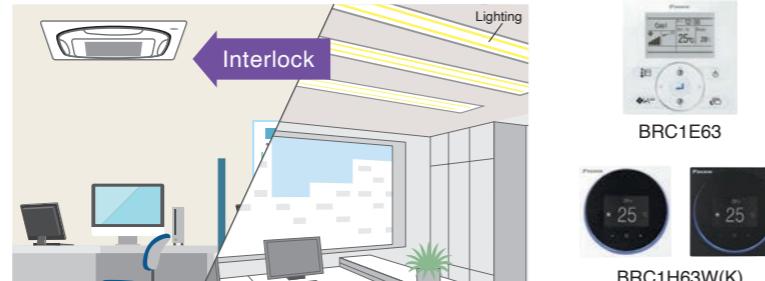
◆ External signal forced OFF and ON/OFF operation (with T1 / T2 terminals)

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

• Hotel key card interlock



• Lighting interlock

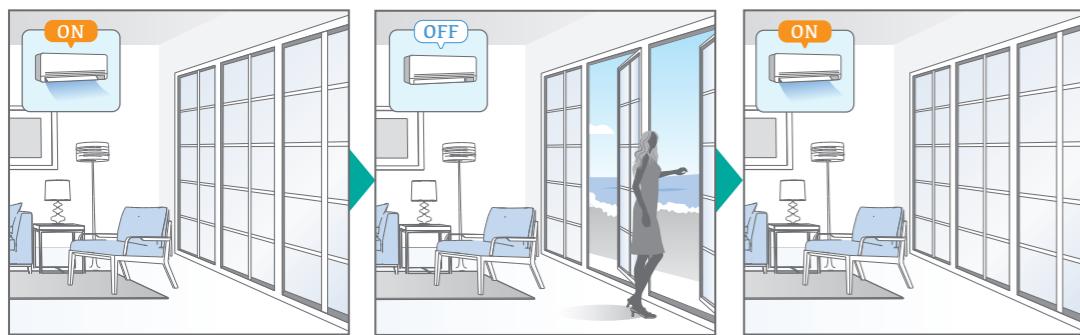


*Field setting with remote controller

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

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

• Window contact interlock



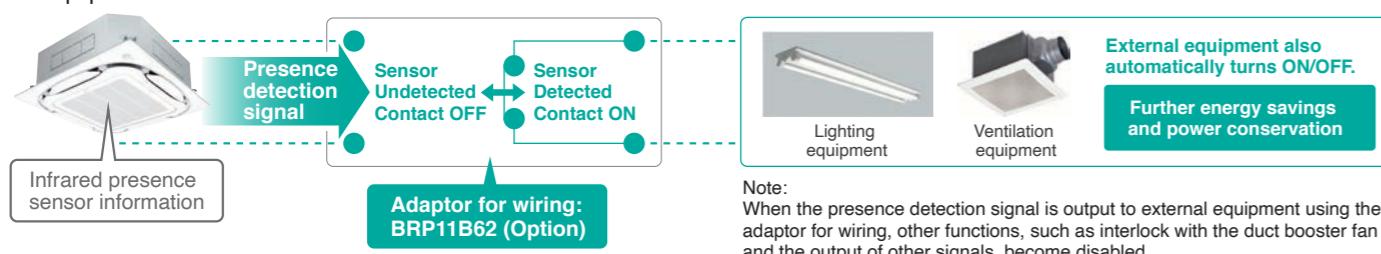
BRC1H63W(K)
+
Digital input adaptor
BRP7A*

◆ External equipment interlock (FCTA and FCA series only)

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

*Optional adaptor for wiring: BRP11B62 is necessary.

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.



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

◆ Indoor units comply with DIII-Net standards



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

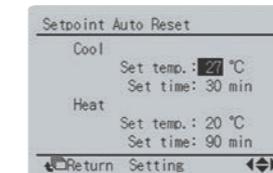
Convenient Functions

◆ Navigation remote controller BRC1E63 includes various convenient functions

Automatic return to temperature preset by owner.

• Setpoint auto reset

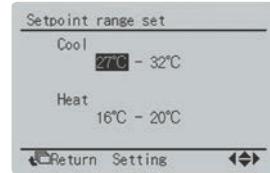
- Even if the set temperature is changed, the new set temperature returns to the previous preset value after a preset duration of time.
- Period selectable from 30, 60, 90, or 120 minutes.



Owner can preset upper and lower temperatures.

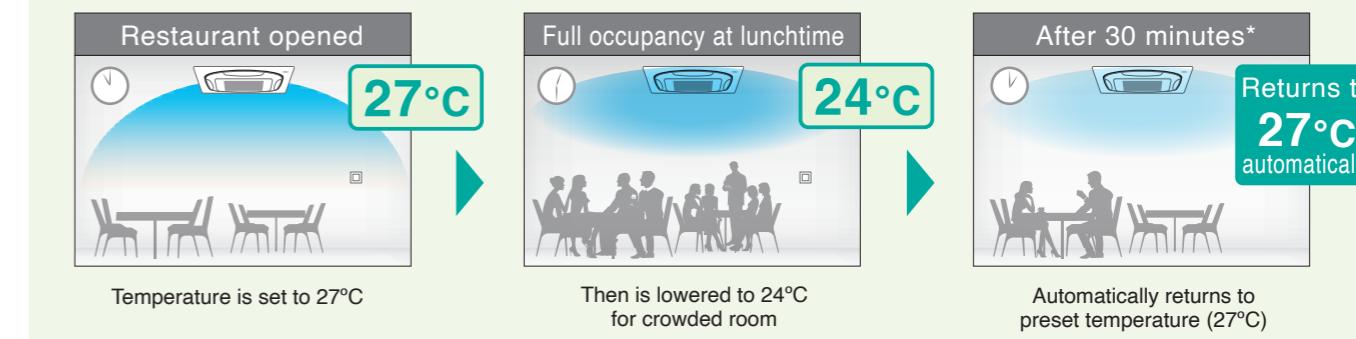
• Setpoint range set

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



Restaurant example (Setpoint auto reset)

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



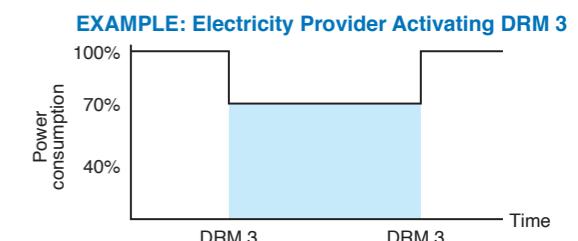
◆ Demand control function

All models feature Demand Response Enabling Device (DRED) capability* compliant to AS/NZS 4755.3.1:2012.

This device is designed to enable electricity providers to reduce peak demand by reducing your air conditioner's maximum power consumption.

3 Demand Response Modes (DRM) available

DRM 1: Compressor Off
DRM 2: 40% Power Consumption Limit
DRM 3: 70% Power Consumption Limit



*Built-in for all outdoor unit models.

◆ Quick start function

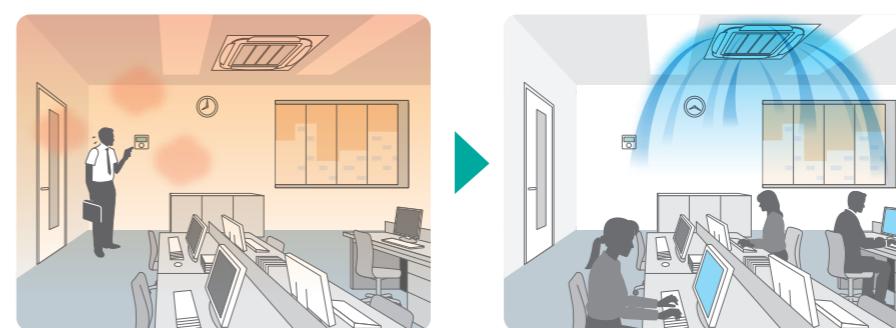
Gets the space to a comfortable temperature rapidly before the arrival of office workers or shop customers.

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

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



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



Streamer Filter Clean Function

◆ Introducing Streamer technology to SkyAir Indoor units

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



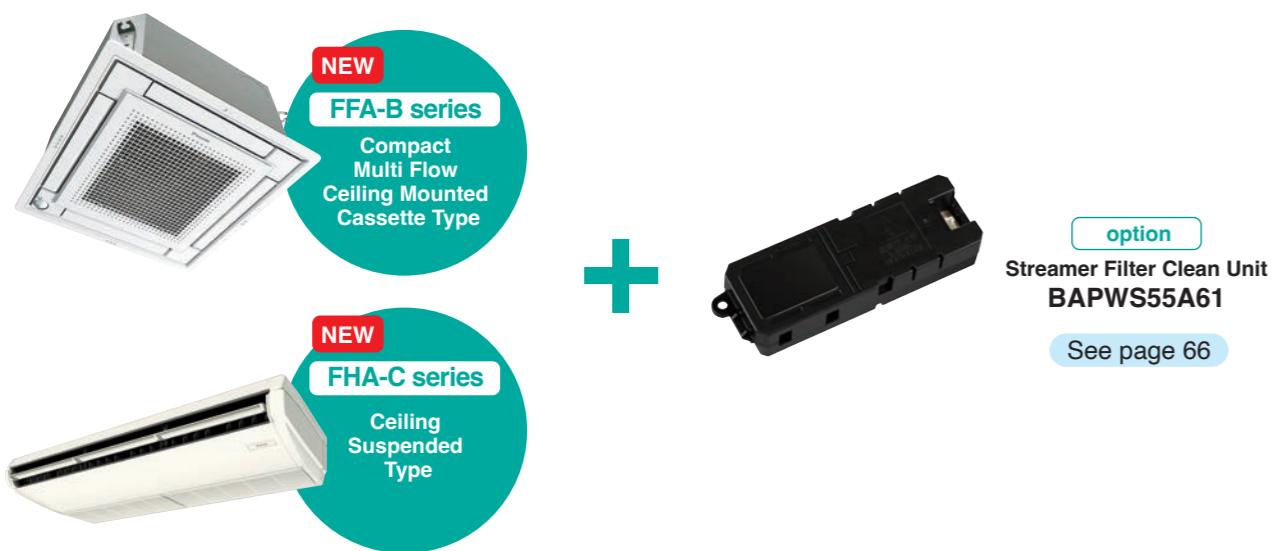
Streamer filter clean unit irradiates Streamer when the fan and air conditioning operation are stopped.
Streamer fumigates the cabin and sterilizes the filter.

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

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



◆ Streamer filter clean unit is option unit



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

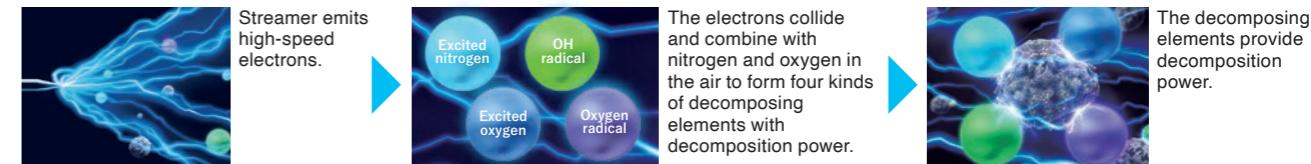
* Field setting is required.(default: OFF)



Streamer Technology

Equipped with decomposition technology, Streamer is a type of plasma discharge that eliminates allergens such as pollen, mould, and mites, as well as, deodorises anti-bacterial dust filters so you can breathe with ease.

Mechanism of decomposition by Streamer



◆ 99.93% Inactivation of Omicron variant in 2 hours

Experimental Results

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

Inactivation effect against Omicron variant



Test Method

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

Test Organization

Professor Tatsuo Shiota, Department of Virus Infections, Research Institute for Microbial Diseases, Osaka University

*This result was obtained by using a Streamer discharge device for testing in lab conditions.
The effect of products equipped with Streamer technology or results in actual use environments may differ.

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

Demonstration of mould



◆ Why Daikin Streamer?

Recognized as clean technology by public bodies

Winner of the 2005 Progress Award, Institute of Electrostatics Japan

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

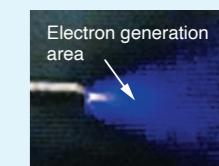
105 Patents Acquired

Patents acquired relating to Streamer technology

Streamer, a type of plasma discharge, decomposes hazardous chemical substances.

The decomposition power is comparable to thermal energy of about 100,000°C.*

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



Cassette air conditioner with 360° uniform airflow sets the standard



Option Accessory required for indoor unit.

Wired Remote Controller

- Stylish Remote Controller (Wired)^{1,2}



NEW BRC1H63W
(White) BRC1H63K
(Black)

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

Wireless Remote Controller

- Wireless Remote Controller³



Heat pump
BRCTM634F
(Fresh white)
BRCTM634K
(Black)

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

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

Panel Variations



360° Airflow

With uniform temperature distribution



Airflow distribution creates uniform comfort throughout the space.

Greater comfort

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

P.15-16 *FCTA series only.

Streamer Filter Clean Function

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



Promotion video at Daikin official YouTube site.

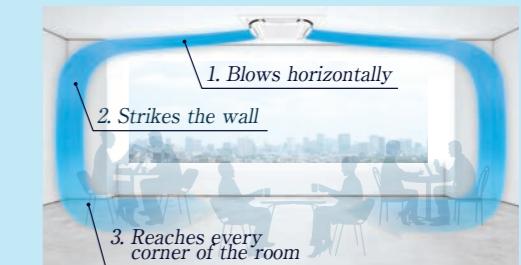


*FCA series only.

Circulation Airflow

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

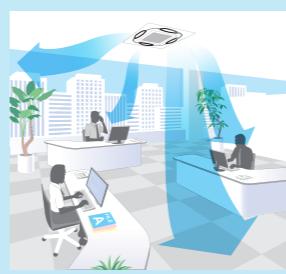
The illustration shows typical airflow. Effectiveness may differ according to room conditions, room size, and distance to walls.



P.23

Individual Airflow Direction Control

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



Selectable Airflow Pattern

*FCA series only.

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



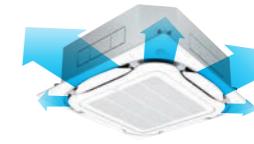
(E.g., installed in middle of ceiling)
4-way flow also possible.

3-way flow



(E.g., installed near a wall)

L-shaped 2-way flow



(E.g., installed in a corner)

Opposite 2-way flow



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

Note:

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

Circulation Airflow Evenly Distributes Cool and Warm Air *1

Cooling

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



Problem 1

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

Problem 2

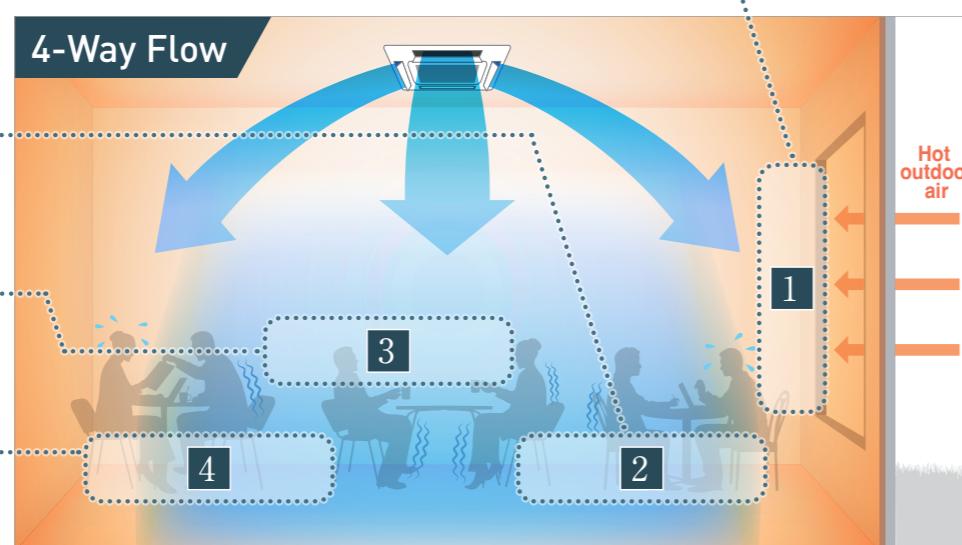
Cool air accumulating directly underneath causes cold air pockets at floor level.

Problem 3

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

Problem 4

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



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

Heating

Conventional airflow did not warm areas at floor level or near windows and walls.



Problem 1

Outdoor air entering through windows and walls causes areas near windows and walls to be cold.

Problem 2

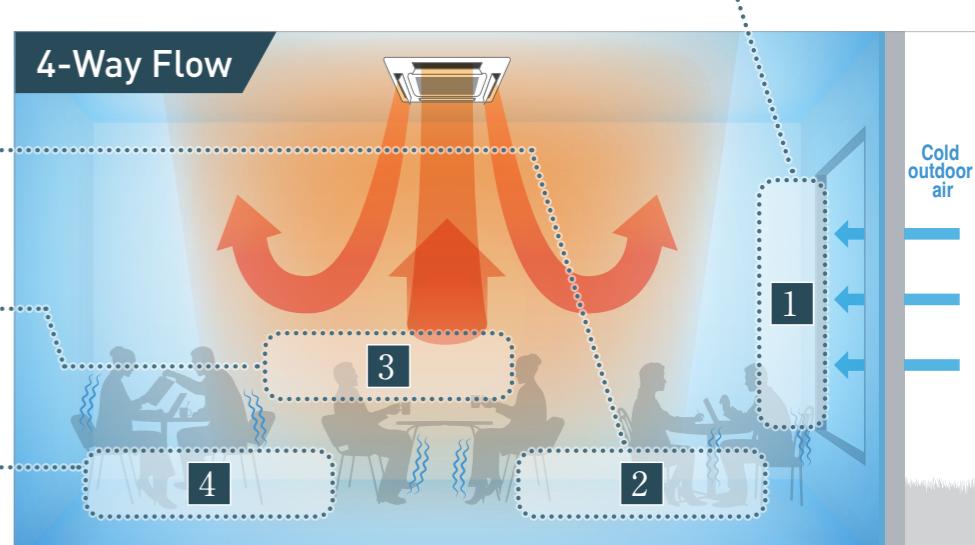
Warm air does not reach floor level, and areas at floor level remain cold.

Problem 3

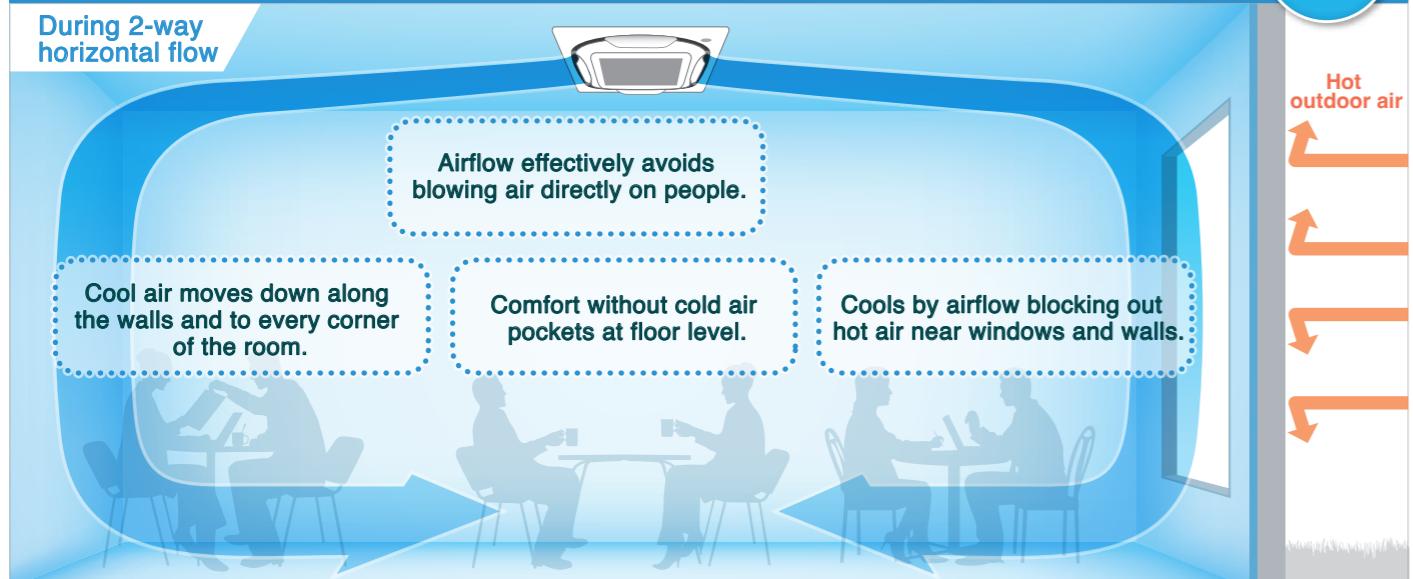
Warm air blowing directly on people causes discomfort from air conditioner.

Problem 4

Room is slow to get warm because warm air does not reach to all corners.



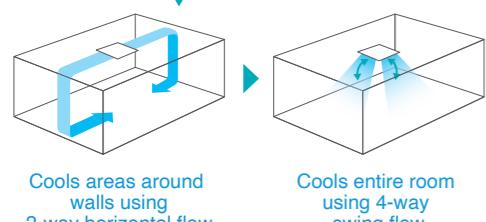
Circulation airflow cools the entire room to deliver comfort that never feels cold.



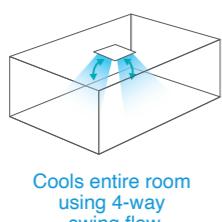
Configurations of Circulation Airflow (Cooling)

Operation (at start)

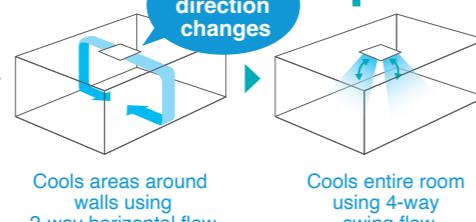
Performs repeatedly



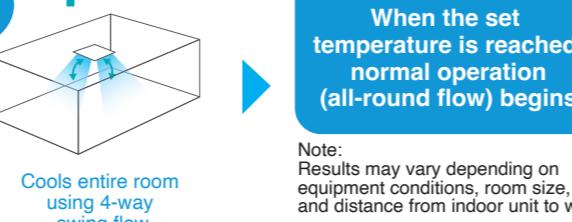
Cools areas around walls using 2-way horizontal flow



Cools entire room using 4-way swing flow



Cools areas around walls using 2-way horizontal flow

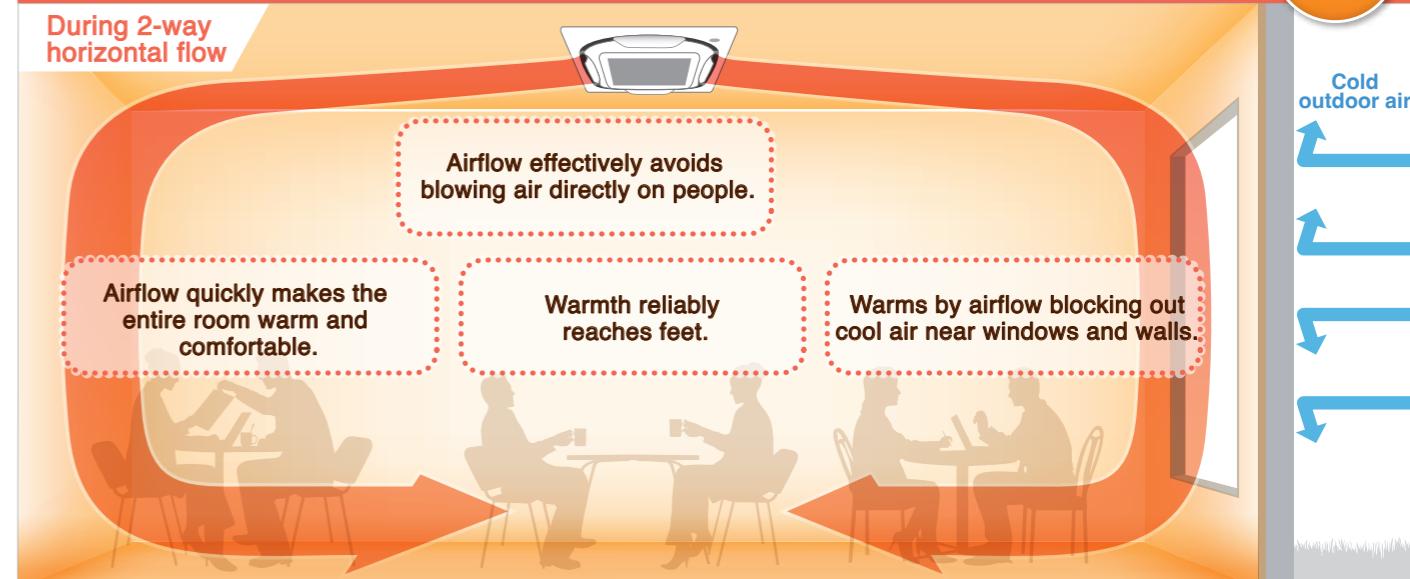


Cools entire room using 4-way swing flow

When the set temperature is reached, normal operation (all-round flow) begins.

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

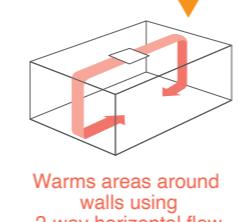
Circulation airflow warms the entire room starting from your feet.



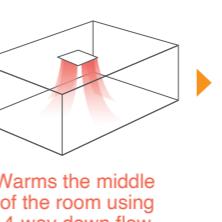
Configurations of Circulation Airflow (Heating)

Operation (at start)

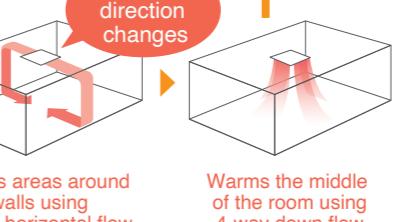
Performs repeatedly



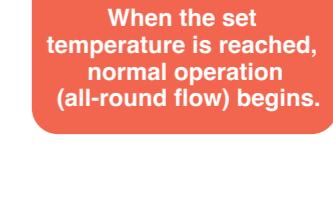
Warms areas around walls using 2-way horizontal flow



Warms the middle of the room using 4-way down flow



Warms areas around walls using 2-way horizontal flow



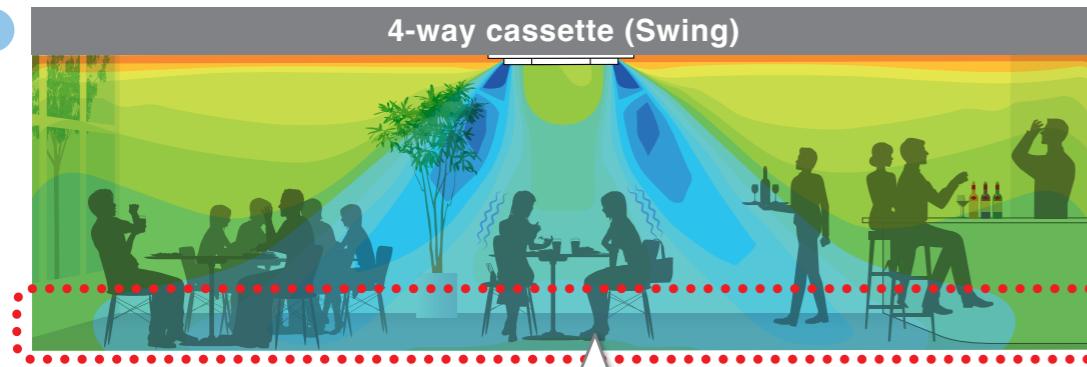
When the set temperature is reached, normal operation (all-round flow) begins.



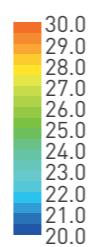
Circulation Airflow Evenly Distributes Cool and Warm Air ^{*1}

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

Cooling



Areas at floor level are cold while areas around walls are hot.



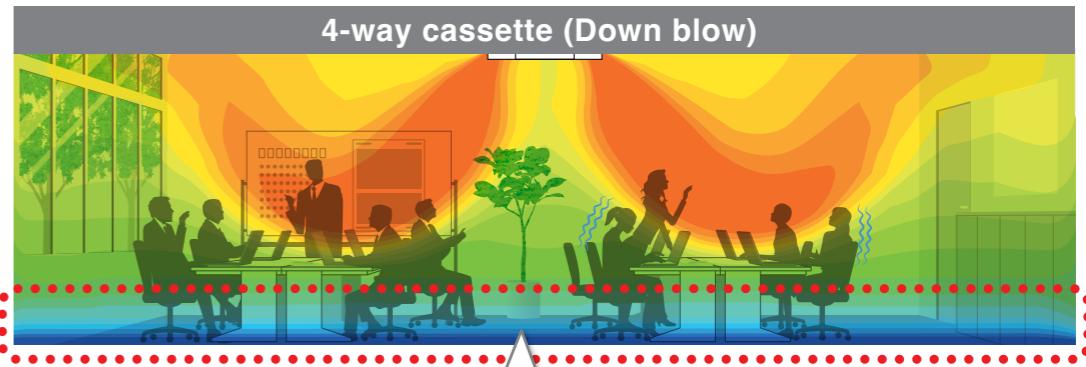
Comparison Conditions
 ■ Room size: Width 7.5m x depth 7.5m x height 2.6m
 ■ Indoor unit capacity: 71 class
 ■ Outdoor air temperature: 35°C
 ■ Airflow rate and air direction: high / swing

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

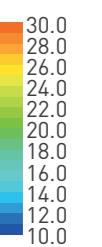
Promotion video
at Daikin official
YouTube site.

Comfort to the Entire Room with Even Temperatures and Warmth Reaches Feet

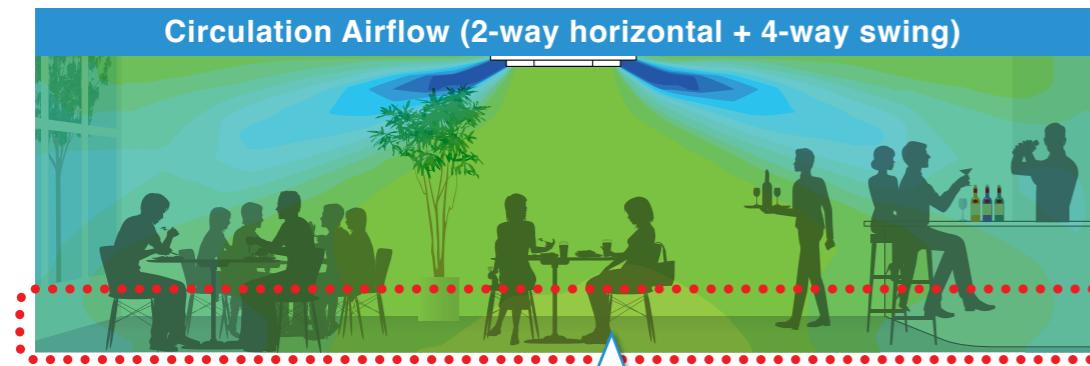
Heating



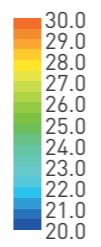
Areas around walls and feet are cold.



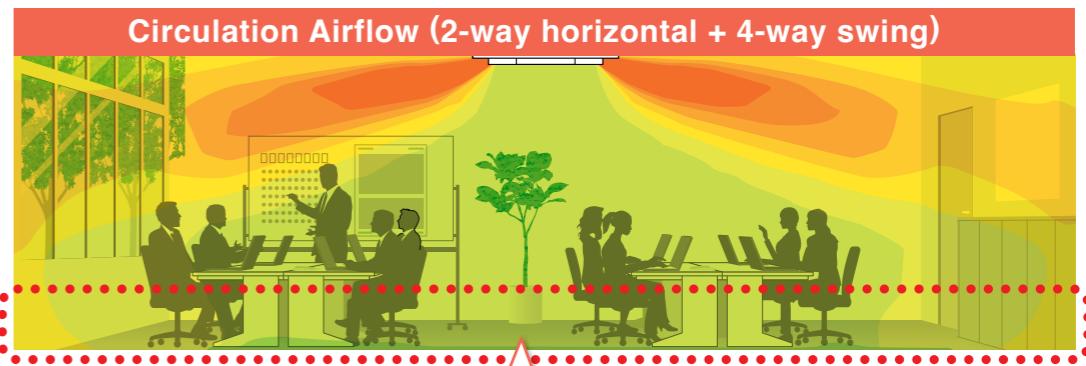
Comparison Conditions
 ■ Room size: Width 7.5m x depth 7.5m x height 2.6m
 ■ Outdoor air temperature: 5°C
 ■ Indoor unit capacity: 71 class
 ■ Airflow rate and air direction: high / Down blow



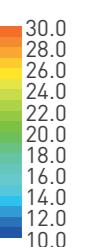
Full comfort is provided with no cold feet.

Approx. 5% energy savings ^{*2}
by reducing uneven temperatures

*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)



Areas around walls and feet are warm.

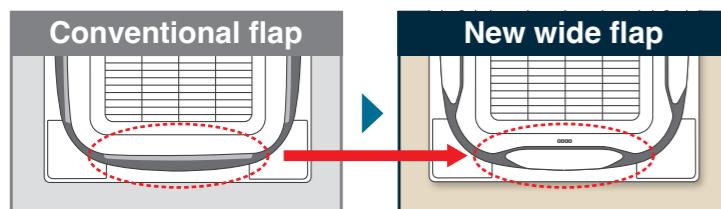
Approx. 15% energy savings ^{*3}
by reducing uneven temperatures

*3. Calculated under the following comparison conditions: When the average temperature at a height of 0.6m above the floor reaches set temperature. (22°C)

Three Technologies That Achieved Circulation Airflow

1 Use of new wide flaps (Straight)

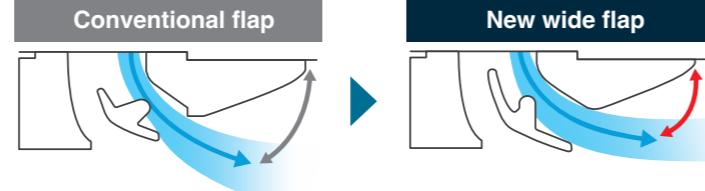
With new, larger flaps, a straighter trajectory for airflow was achieved.



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)

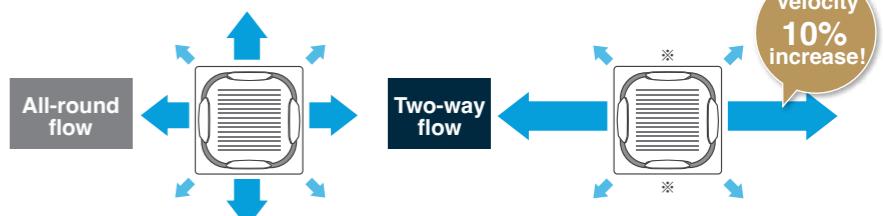
The airflow angle was made more horizontal.



3 Increased velocity in 2-way flow (Strongly)

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

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

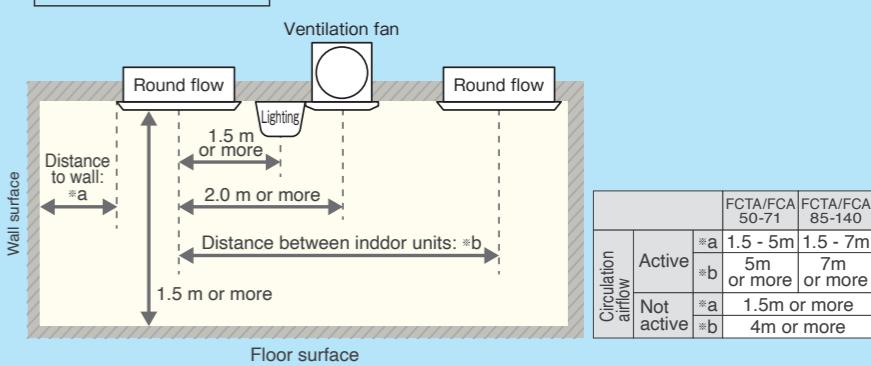


Things to remember when using circulation airflow

Main points for use

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

Installation conditions

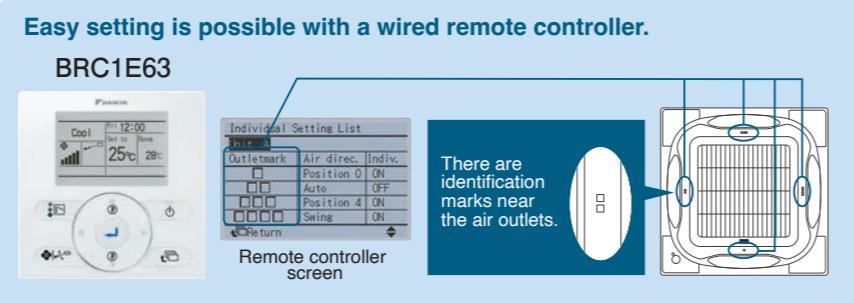
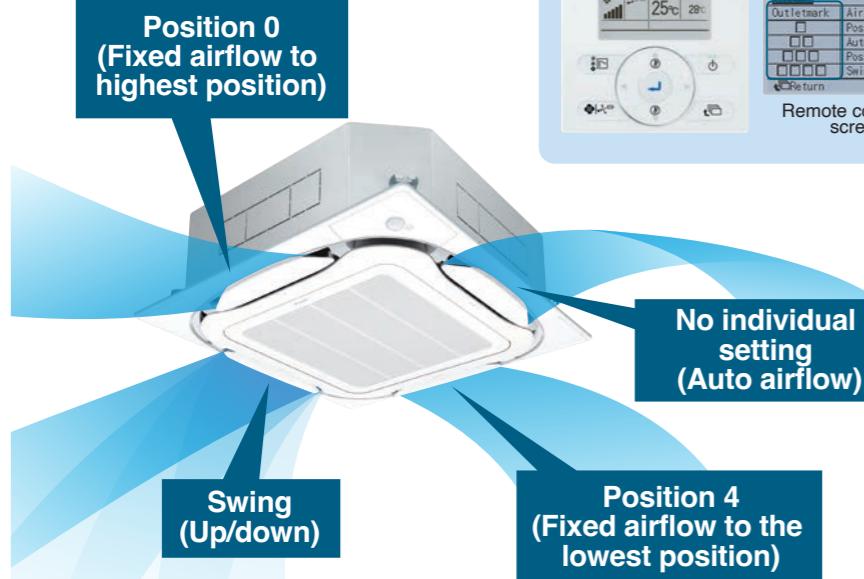


Individual Airflow Direction Control *1

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

Comfortable Air Conditioning for All Room Layouts and Conditions

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



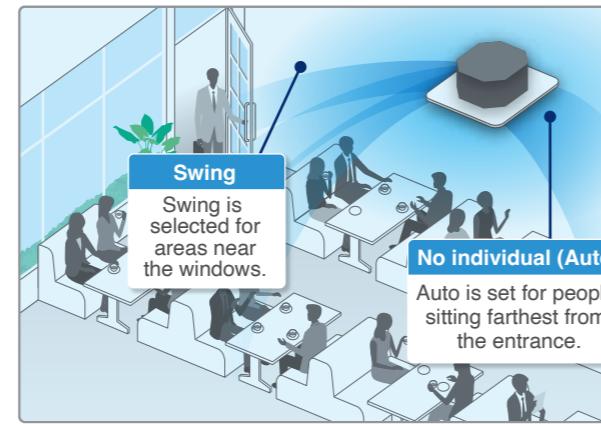
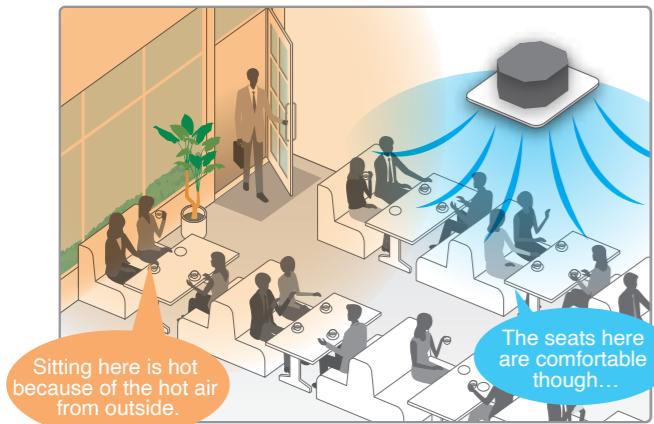
Individual airflow settings

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

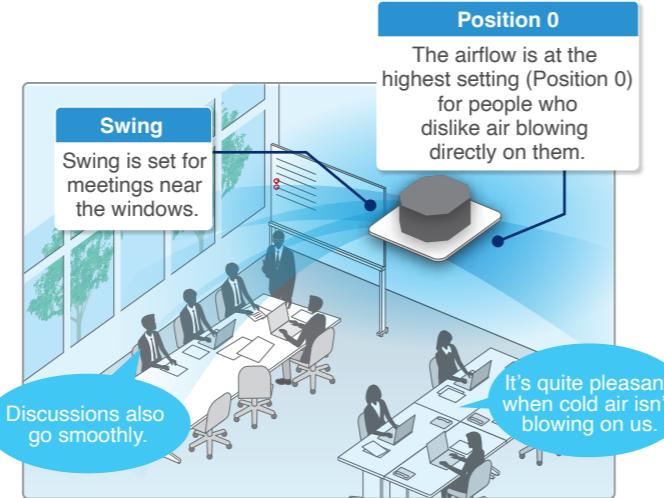
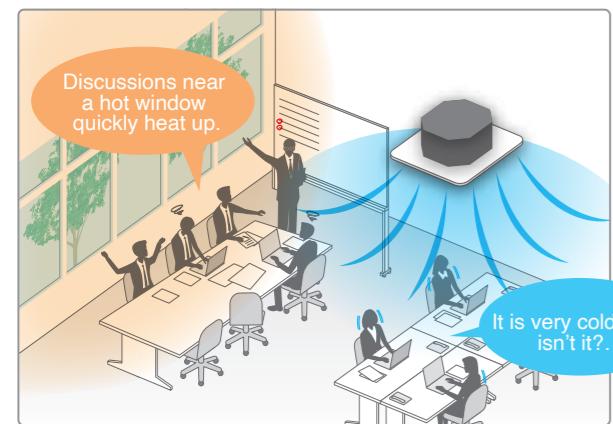
Individual settings are possible as stated above.

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

For shops and restaurant



For offices

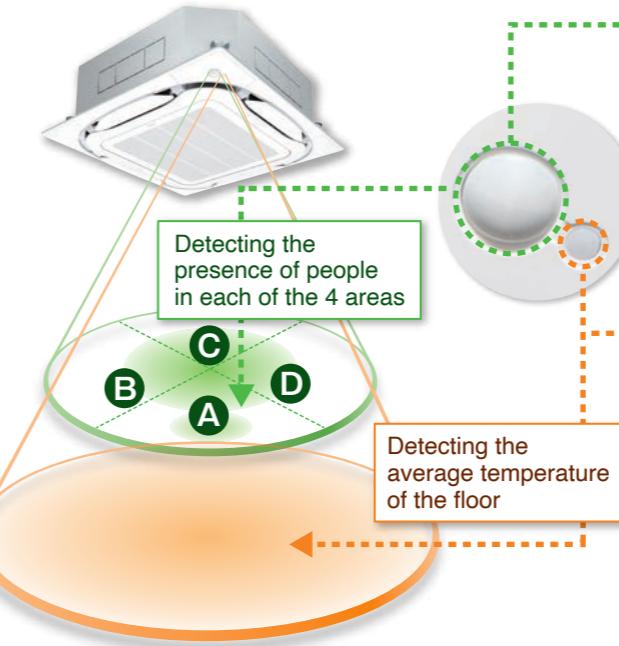


Daikin Sensing Technology *1, 2

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

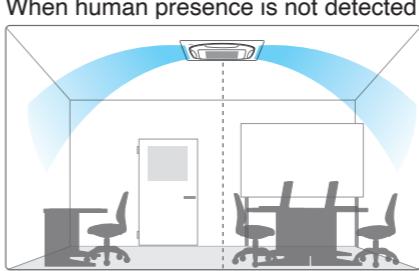
Auto Airflow Functions*5

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

- ◆ Direct Airflow*6 (default: OFF) Cooling Dry

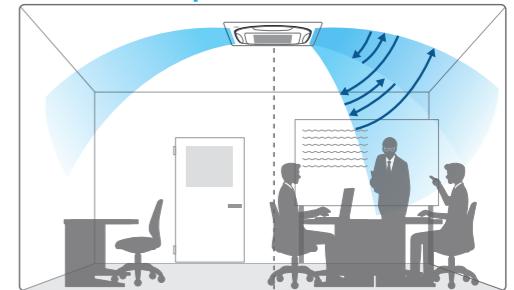
*6. Applicable when BRC1E63 is used.

When human presence is not detected



- With "Auto" airflow direction mode, flaps are controlled to deliver optimal airflow when the room is unoccupied.

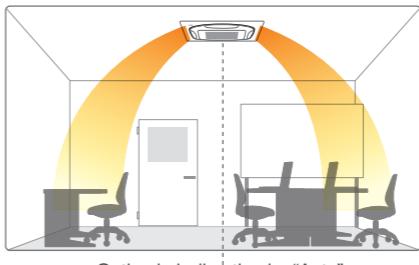
When human presence is detected



- When presence is detected, air direction is set to "Swing (narrow)" to deliver cool air to users.

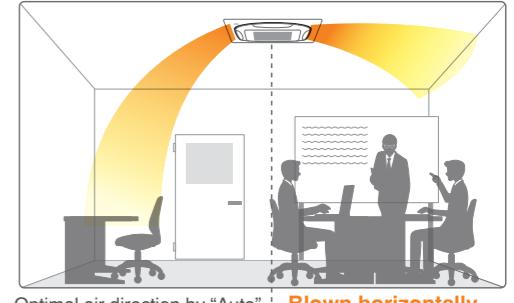
- ◆ Draft prevention*1 (default: OFF) Heating

When human presence is not detected



- With "Auto" airflow direction mode, flaps are controlled to deliver optimal airflow when the room is unoccupied.

When human presence is detected



- When human is not detected for 5 minutes, the unit automatically returns to controlling the flaps for an unoccupied room.

Promotion video
at Daikin official
YouTube site.

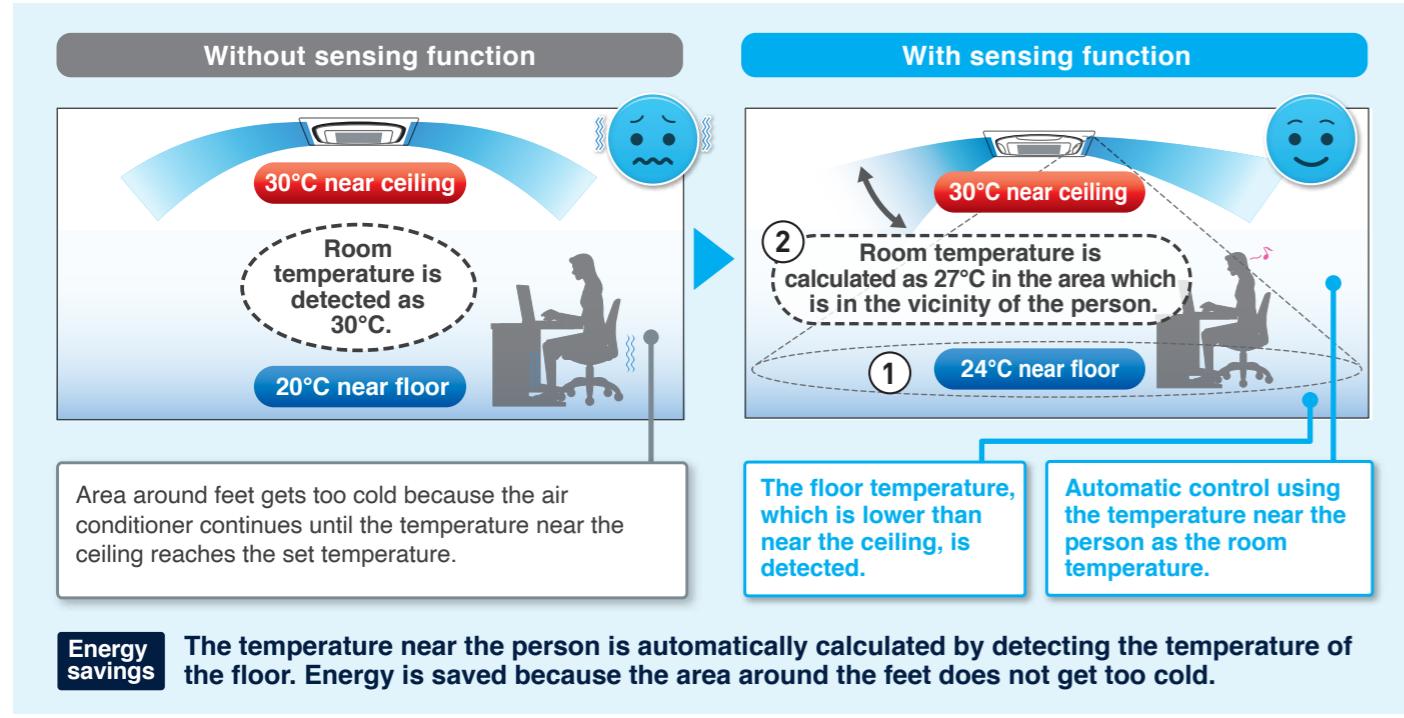
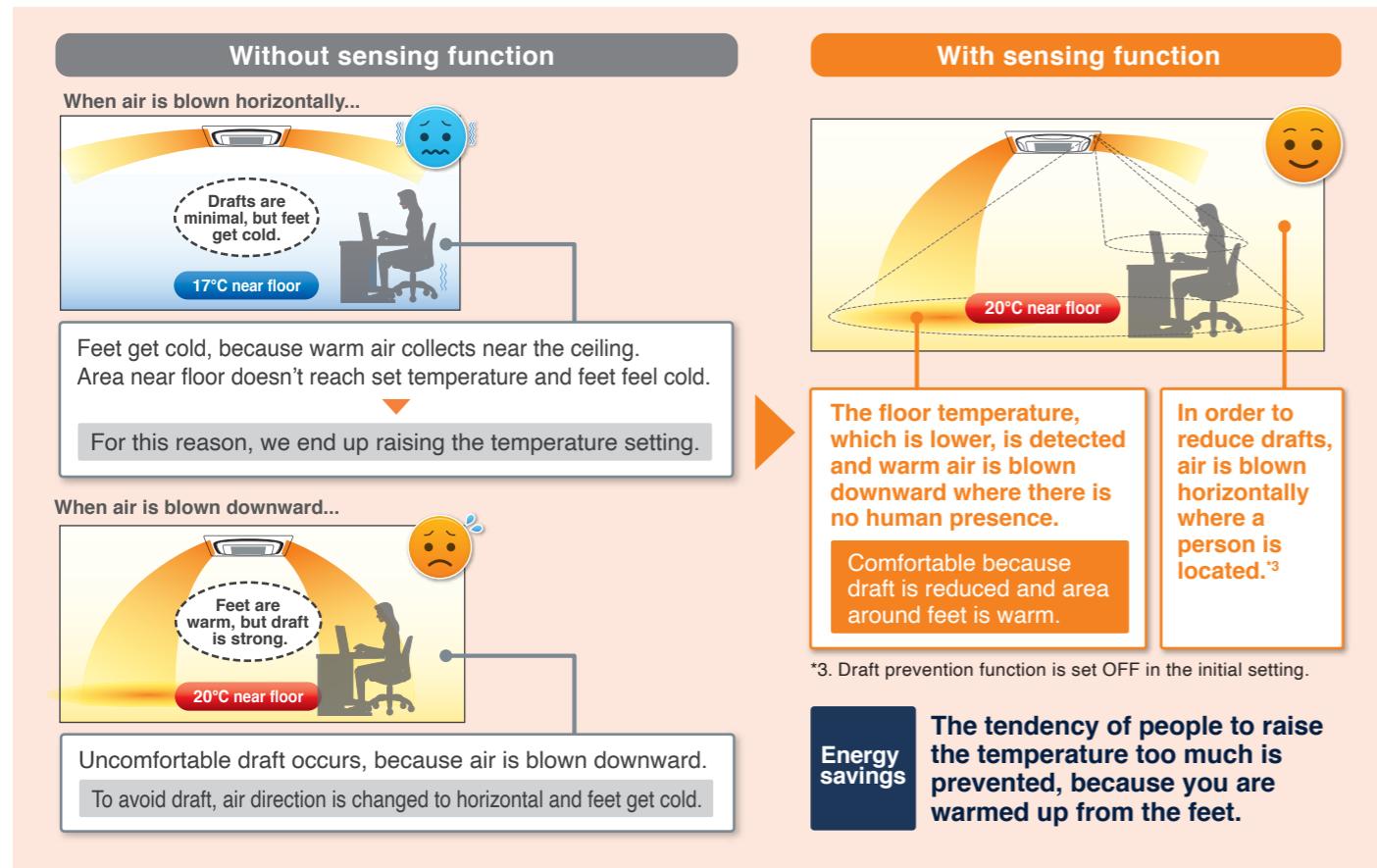


Daikin Sensing Technology *1

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

Comfort and Energy Saving Preventing Overcooling / Overheating*2

*2. Airflow direction and airflow rate should be set to "Auto".

◆ Floor temperature is detected and overcooling prevented. Cooling◆ Feet are kept warm and comfortable while reducing uncomfortable drafts. Heating

To increase comfort, Auto airflow rate mode controls the airflow in accordance with the difference between floor and ceiling temperatures.

When there is a large difference between the ceiling and floor temperatures, the airflow rate is automatically increased.
When the difference becomes small, the airflow rate is automatically reduced.

Sensing Sensor Functions*4,5,6

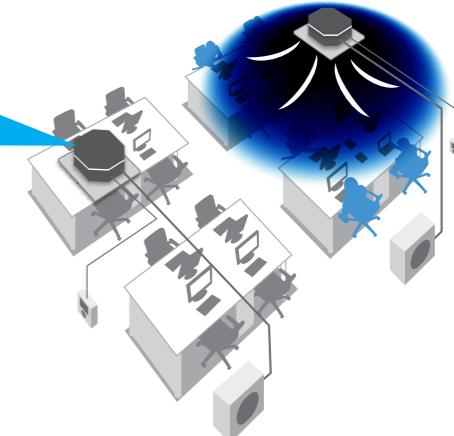
*4. Applicable when BRC1E63 or BRC1H63W(K) is used.
*5. These functions are not available when using the group control system.
*6. User can set these functions with remote controller.

◆ Sensing sensor low mode (default: OFF)

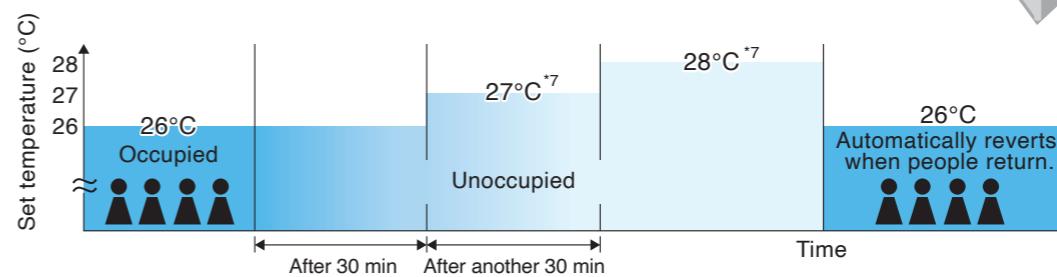
When there are no people in a room, the set temperature is shifted automatically.

- 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.

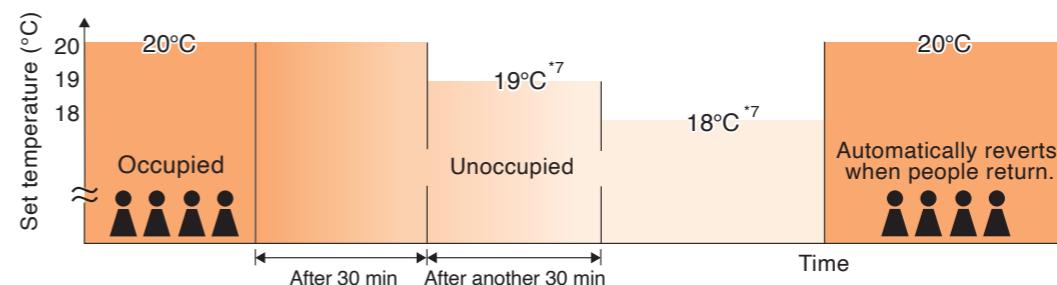


Example • Cooling set temperature: 26°C • Shift temperature: 1.0°C
• Shift time: 30 min. • Limit cooling set temperature: 30°C



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

Example • Heating set temperature: 20°C • Shift temperature: 1.0°C
• Shift time: 30 min. • Limit heating set temperature: 16°C



If people do not return, the air conditioner will lower the set temperature 1°C every 30 minutes and then operate at 16°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.

*7. 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.*8,9

- 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.

*8. Please note that upon re-entering the room, the air conditioner will not switch on automatically.
*9. 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			
Draft prevention (In heating mode)		At heating startup and thermo OFF, air discharge is automatically set to a near horizontal to prevent direct exposure to cool air drafts.	
Auto air direction control		The air direction is set automatically to the memorised position of the previous air direction.	

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

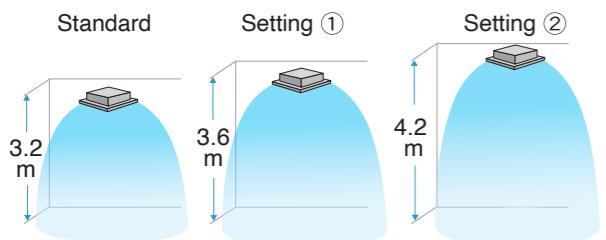
Switchable fan speed: 5 steps and Auto

Quiet operation

Indoor unit	Sound pressure level				
	H	HM	M	ML	L
50-71CA	37.0	36.0	34.0	31.0	27.5
85/100C	45.0	42.0	39.0	36.5	34.0
125/140C	46.0	43.5	41.0	38.5	36.0

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. (85-140C)

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

Ceiling height	Standard	Number of air discharge outlets used				
		50-71 class				
		All round flow	4-way flow	3-way flow	2-way flow	
3.2 m	2.7 m	3.1 m	3.0 m	3.5 m		
3.6 m	3.0 m	3.4 m	3.3 m	3.8 m		
4.2 m	3.5 m	4.0 m	3.5 m	—		

Note:
• The aforementioned is for standard panels. See the installation manual for designer panels. Factory settings are for standard ceiling height and all-round flow.
• High ceiling settings (1) and (2) are set with the remote controller by field setting.
• High-efficiency filters are not available for high ceiling applications.

Cleanliness

Silver ion anti-bacterial drain pan

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



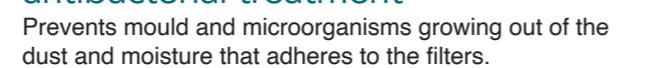
Non-flocking flaps

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



Filter has anti-mould and antibacterial treatment

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



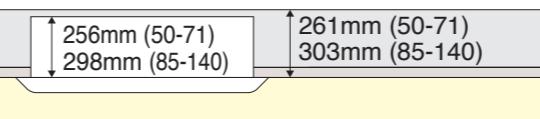
Quick and Easy Installation

Lightweight

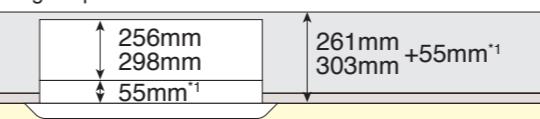
All models can be installed without using a lifter.

Installable in tight ceiling spaces

Standard panel

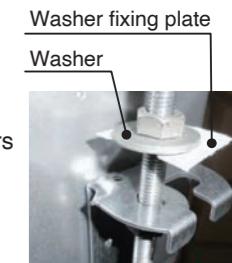


Auto grille panel



*1. Body height (ceiling required space) is 55 mm higher than standard panel.

*When the ceiling space is limited, an optional panel spacer is available. (see P.30)

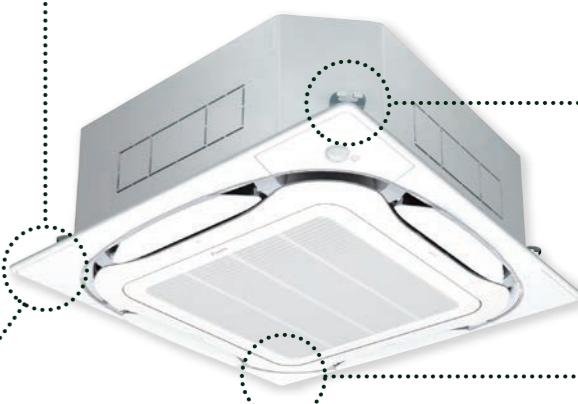


Easy hanging

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

Easy removal of corner cover

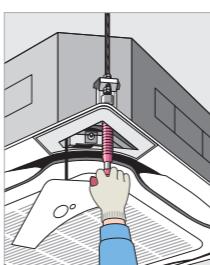
It is possible to easily remove without use of screws or tools.



Easy height adjustment

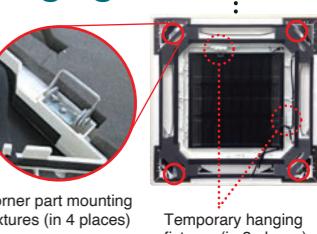
Each corner of the unit has an adjuster pocket that lets you easily adjust the unit's suspended height.

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



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.

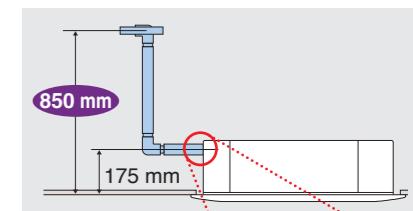


Corner part mounting fixtures (in 4 places)

Temporary hanging fixtures (in 2 places)

Drain pump

Equipped as standard accessory with 850 mm lift.

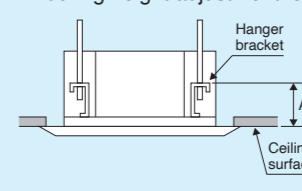


Transparent drain socket



Hanging height adjustment

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



	A Dimensions
Standard panel	125-130mm
Chamber option* + standard panel	175-180mm
Auto grille panel	180-185mm

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

Easy Maintenance

◆ Condition of the drain pan and drain water

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

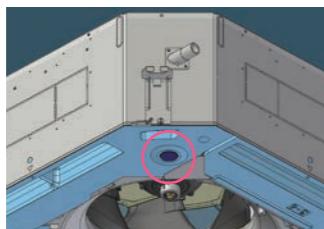
Note: For inquiries concerning auto grille panel installations, please contact your local dealer or Daikin representative.



◆ 24 mm diameter drain outlet

The drain outlet allows insertion of a finger or dental mirror for inspection of the internal cleanliness of the drain pan.

Removal of the suction panel enables access.



◆ Ultra long-life filter (option)

See page 30

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

◆ Low gas pressure detection

Options

See page 64, 65

◆ High performance prefilter (MERV 8 filter)

MERV 8 rating

PM2.5 filtration

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

Easy replacement

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



Filter change twice a year

Specifications

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

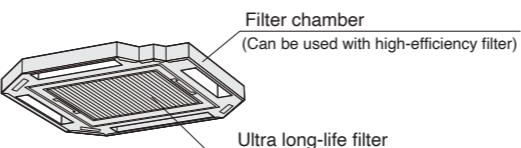
Note: 1. Field setting for high ceiling application is required. The setting number differs according to each model. Please refer to the installation manual.
 2. This result is based on the test of the filter only. The results may be different in the actual use environment where the filter is installed in the indoor unit.
 3. Filter lifetime may vary depending on the condition of the operating environment. Certain instances such as high traffic areas, pets or smokers in a residence, or other situations may require more frequent changes.

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

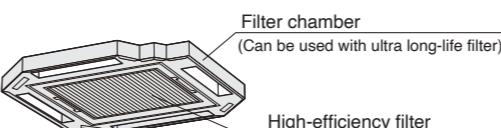
*For dust concentration of 0.3 mg/m³ (Requires separately sold Air purifier.)
1 year (Approx. 5,000 hr) \div 15 hr/day \times 28 day/month \times 12 month/year

Ordinary store or office: filter change every 4 years

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

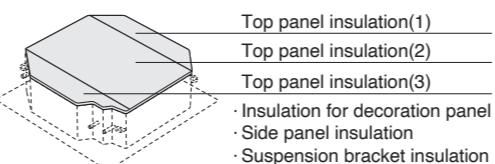
◆ High-efficiency filter unit

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



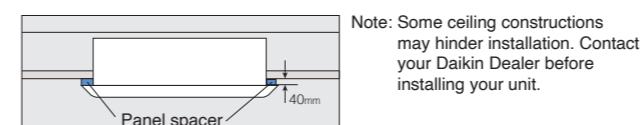
◆ Insulation kit for high humidity

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.



◆ Sealing material of air discharge outlet

*FCTA series is not available.

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

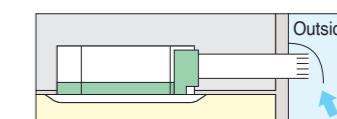
◆ Branch duct chamber

*FCTA series is not available.

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

◆ Fresh air intake kit Note 1.2

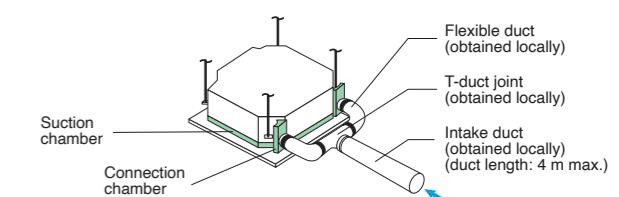
Using this kit, a duct can be connected to take in outdoor air. There are two chamber types that have intake in two places: with T-duct joint and without T-duct joint.



The units can be installed in the following different ways

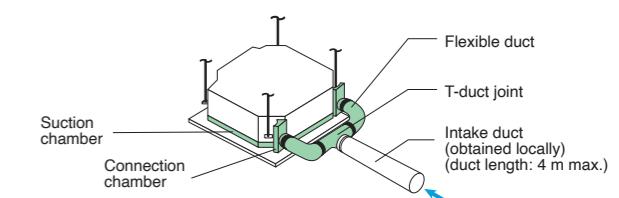
Chamber type (without T-duct joint) Note 3.4.5

KDDP55C160



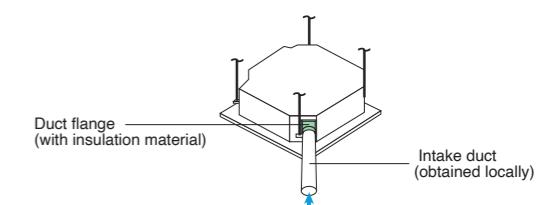
Chamber type (with T-duct joint) Note 3.4.5

KDDP55C160K



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 (BRP11B62) 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.

Fully flat cassette, a remarkable blend of iconic design and engineering excellence



Option Accessory required for indoor unit.

Wired Remote Controller

- Stylish Remote Controller (Wired)¹



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

Wireless Remote Controller

- Wireless Remote Controller²

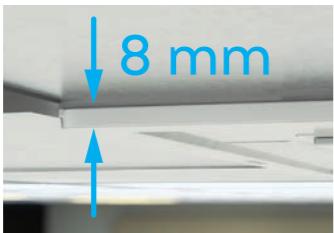


"Nav Ease"
BRC1E63

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

Fully Flat with the Ceiling

- Fully-flat integration in standard architectural ceiling tiles, leaving only 8 mm.



Fits Architectural Ceiling Tiles Perfectly

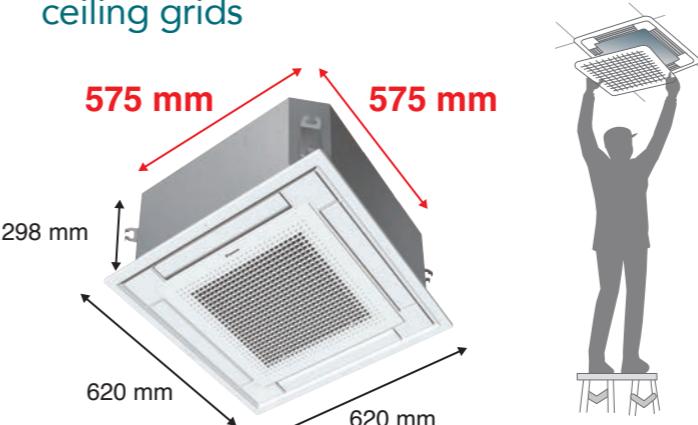
- The newly designed panel integrates fully within one ceiling tile enabling lights, speakers and sprinklers to be installed in the adjoining ceiling tiles.



Unobtrusive cassette

Compact

- Sized to fit inside 600mm wide ceiling grids



- Inspection opening is necessary on the control box and drain pump side.

Sensing technology^{*1}

^{*1} Applicable when optional sensor kit (BRYQ60AAW) is used.

Dual sensors (Option)

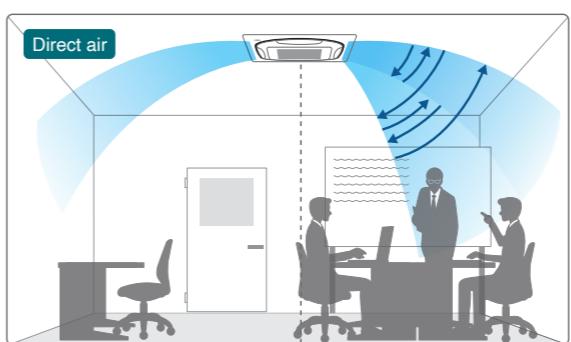
- An optional presence and floor sensor kit can be fitted to the cassette for draft prevention, energy-saving operation, and to provide optimal control of airflow.



Direct air, Draft prevention (default: OFF)^{*2}

^{*2} Applicable when BRC1E63 is used.

- When human presence is detected, air direction is set to "Swing (narrow)" to deliver cool air to users, or drafts are prevented by making the flap horizontal.



Optimal air direction by "Auto"¹

Swing (narrow)

Sensing sensor low / stop mode (default: OFF)^{*3}

^{*3} Applicable when BRC1E63 or BRC1H63W(K) is used.

- When there are no people in a room, the set temperature is shifted or the system stops automatically for energy saving.

Streamer filter clean function^{*3}

^{*3} Applicable when BRC1H63W(K) is used.

See page 15

Streamer filter clean unit (Option)

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

Streamer fumigates the cabin and sterilizes the filter.



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

Individual airflow direction control^{*4}

^{*4} Applicable when BRC1E63 or BRC1H63W(K) is used.

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



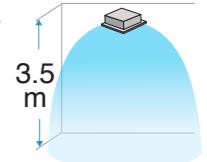
Comfort

Fan speed: 3 steps and Auto

Suitable for high ceilings

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

*Field setting with remote controller.



Optimal comfort and convenience

	Auto-swing	5-levels air direction setting
Standard setting		
Draft prevention setting (Field setting)		
Setting to prevent soiling of ceiling (Field setting)		

Selectable airflow pattern

4-way flow	3-way flow	2-way flow

■ Drain socket ■ Piping ■ Sealing material (Option)

*For 3-way or 2-way flow, the sealing material of air discharge outlet (option) must be used.

*Field setting with remote controller.

Comfortable airflow travels throughout the room



Option Accessory required for indoor unit.

Wired Remote Controller

- Stylish Remote Controller (Wired)¹⁾



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

Wireless Remote Controller

- Navigation Remote Controller (Wired)¹⁾



"Nav Ease"
BRC1E63

- Wireless Remote Controller²⁾



Heat pump
BRC7M53



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

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

Stylish Model

- ◆ Sophisticated design

Flap neatly closes when not in use.



- ◆ White colour

Comfort

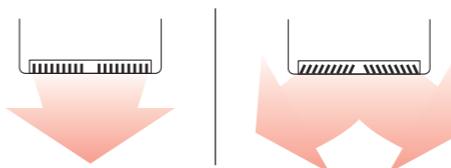
- ◆ The technology

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

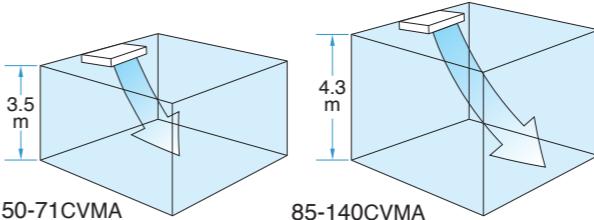
- ◆ Auto swing (up and down) and louvers (left and right by hand)

Bring comfort to the room.

- ◆ Louver manually adjusts for straight or wide angle airflow



- ◆ Suitable for high ceilings



	50-71C(A)	85/100C	125/140C
Standard	2.7m or less	3.8m or less	4.3m or less
High ceiling	2.7m-3.5m	3.8m-4.3m	—

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

- ◆ Switchable fan speed: 5 steps and Auto

Oil Resistant Grille

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

This satisfies durability in restaurants and other similar environments.

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

Streamer filter clean function³⁾

³3. Applicable when BRC1H63W(K) is used. See page 15

- ◆ Streamer filter clean unit (Option)

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

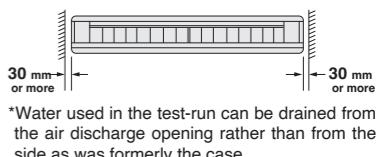


Remarks:
The Streamer function operates only when the fan and air conditioning operation are stopped.
The maximum operation time of Streamer is 180 minutes per day.

Installation Flexibility for Freedom of Design

- ◆ Flexible installation

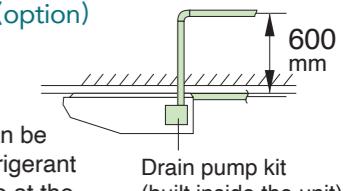
The unit fits more snugly into tight spaces.



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

- ◆ Drain pump kit (option) can be easily incorporated

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



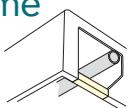
Drain pump kit (built inside the unit)

- ◆ DIII-NET communication standard

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

- ◆ The rear side removable frame allows ease of access for piping work



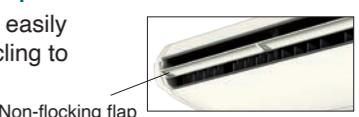
Easy Maintenance

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

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

- ◆ Non-flocking flap

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



Non-flocking flap

- ◆ Easy-clean, flat surfaces

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

Compact design and easy installation



Option Accessory required for indoor unit.

Wired Remote Controller

- Stylish Remote Controller (Wired)¹⁾



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

Wireless Remote Controller

- Wireless Remote Controller²⁾



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

Compact & Sophisticated Design

Flaps neatly close

When not in use.



Fresh white colour



FTXC50/60/71/85/100AV1A
FAA71/85/100BVMA

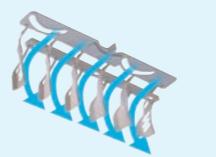
Comfort

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

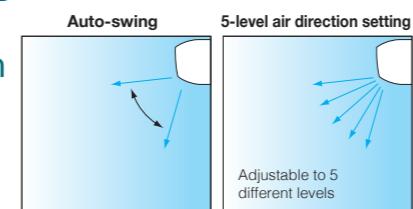
facilitate even room temperature.

Wide-angle louvers (by hand)

Soft material louver bends airflow over a wider area

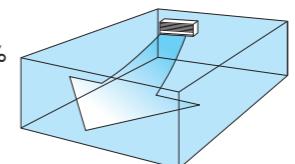


An air discharge modes ensure comfortable air distribution across the entire room



Comfort even on the far side of the room

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



Switchable fan speed: 3 steps and Auto

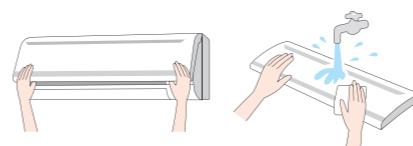
"Auto" is applicable when wired remote controller is used.

Programme "Dry"

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

Easy Cleaning

Removable and washable grille

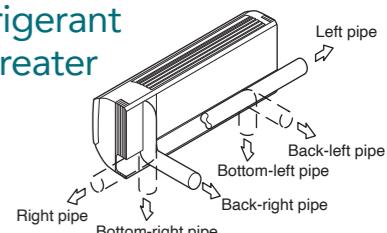


Flat panel, easy to wipe dust off



Design and Installation Flexibility

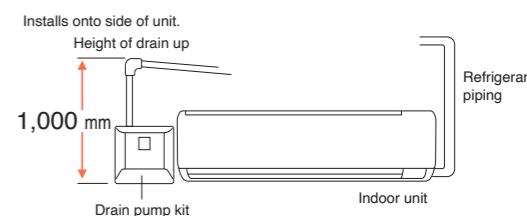
6-direction refrigerant piping offers greater installation flexibility



Maintenance possible from the front of the unit

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

Drain pump kit is available as option



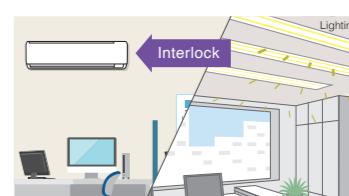
Drain pump kit can be installed on either left and right side of the indoor unit.



Interlock control

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

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



* Field setting with remote controller

DIII-NET communication standard

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

Non-flocking flaps

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

Ideal for areas where a discreet installation is preferred



Option Accessory required for indoor unit.

Wired Remote Controller

- Stylish Remote Controller (Wired)¹⁾



- Navigation Remote Controller (Wired)¹⁾



Wireless Remote Controller

- Wireless Remote Controller²⁾



Heat pump
BRC4C65

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

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

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

Design and Installation Flexibility

Only 200 mm high

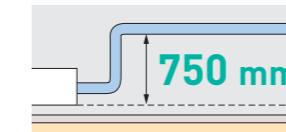
With a height of 200 mm and a depth of 450 mm, new LSP duct is suitable for a variety of applications with limited installation space.



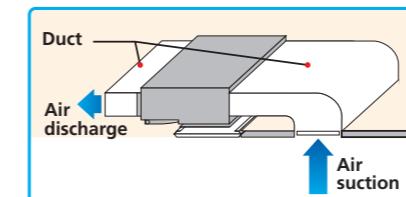
Indoor unit	25A	35/50A	60/71A
Height (mm)	200		
Width (mm)	700	900	1,100
Depth (mm)	450		

Built-in drain pump

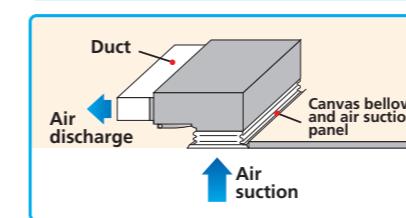
A built-in DC drain pump with standard accessory realized high lift.



Rear and bottom suction is available

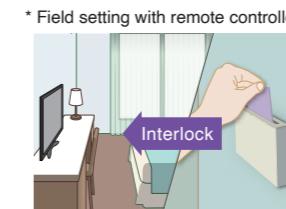


Air filter included
Clip-on resin net filter attached to the rear of the unit as standard.



Interlock control

As an energy saving feature, the air conditioner 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.

High Efficiency

DC fan motor and DC drain pump

These are utilised to improve energy efficiency.

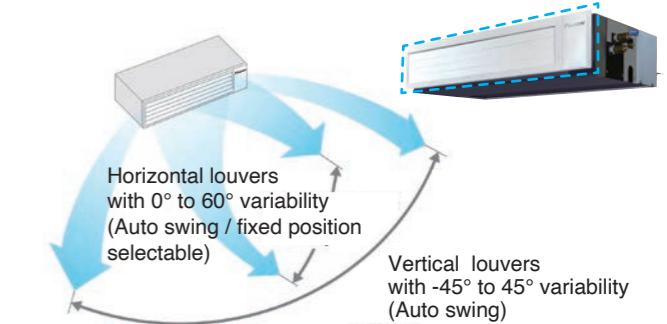
Comfort

Switchable fan speed: 5 steps and Auto

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

3-D auto swing discharge grille (Option)

Motorised louvres provide 3-D airflow distribution. Operations via BRC1E63 / BRC1H63W(K) with functions including 3-D Auto Swing, Horizontal Auto Swing, Vertical Auto Swing, and Fixed Positioning.



Model	Compatibility	H x W x D (mm)
BDG20A09A1	25 class	180 x 722 x 70
BDG20A15A1	35/50 class	180 x 922 x 70
BDG20A20A1	60/71 class	180 x 1,122 x 70

Easy Maintenance

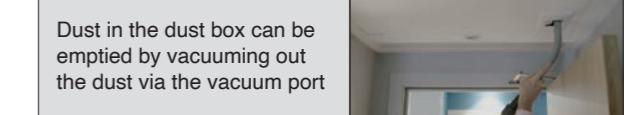
Auto clean air filter unit (Option)

A unique rear suction mounted motorised filter cleaning module with included polyester filter for convenient filter maintenance to ensure optimal performance and increased energy savings.

*Compatible with BRC1E63 and BRC1H63W(K) only.



Model	Compatibility	H x W x D (mm)
BAE20A62	25 class	210 x 840 x 188
BAE20A82	35/50 class	210 x 1,040 x 188
BAE20A102	60/71 class	210 x 1,240 x 188



Thinner design allows greater installation flexibility



Option Accessory required for indoor unit.

Wired Remote Controller

- Stylish Remote Controller (Wired)¹⁾



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

Wireless Remote Controller

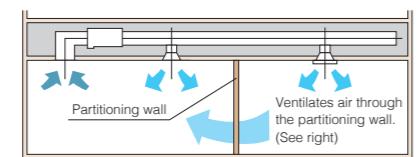
- Wireless Remote Controller²⁾



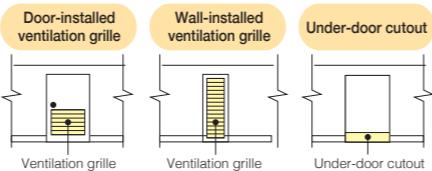
Note: ²A signal receiver must be added to the indoor unit.

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

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



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



Design and Installation Flexibility

Only 245 mm high

Installation is possible even in buildings with narrow ceiling spaces.



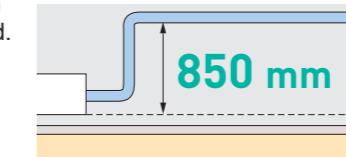
245 mm

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

Indoor unit	50/60BA	71B	85/100/125/140B
Height (mm)		245	
Width (mm)	1,000		1,400
Depth (mm)	800		

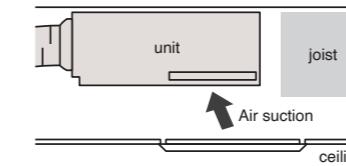
Higher lift is realized

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



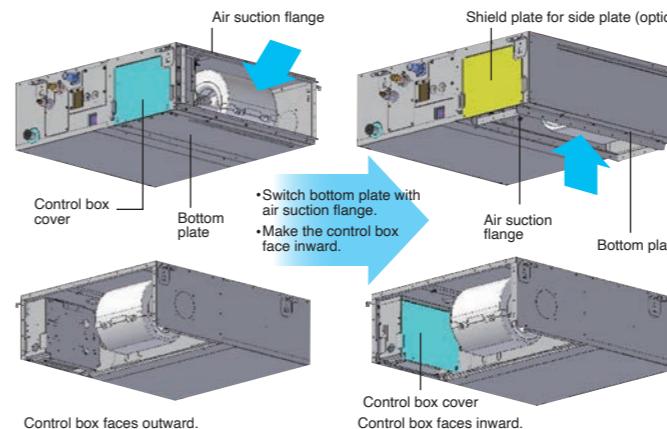
Bottom suction is available

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

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

High Efficiency

DC fan motor and DC drain pump

These are utilised to improve energy efficiency.

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.

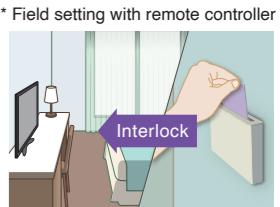
Airflow rate auto adjustment function

Controls the airflow rate using a remote controller during test run.

It is automatically adjusted to approximately $\pm 10\%$ of the rated H tap airflow.

Interlock control

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



DIII-NET communication standard

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

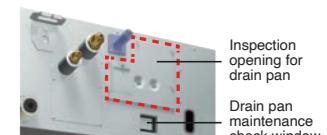
Easy Maintenance

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.



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.)





RZAC25/35E2VM
RZAC25/35G2V1



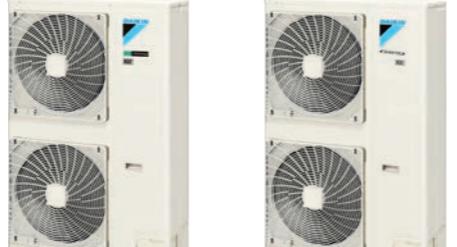
RZAV50/60C2V1
RZAC71C2V1
RZAC50/60G2V1



RXC50/60A2V1A
RZAC50/60/71E2VM
RZAC71G2V1



RZAC50/60/71E2VM
RZAC71G2V1



RZAV71/85C2V1
RZAV71/85C2Y1
RZAC85/100/125C2V1
RZAC85/100/125C2Y1



RXC71/85A2V1A



RZAV100/125/140F2V1
RZAV100/125/140F2Y1
RZAC140F2V1
RZAC140F2Y1



RXC100A2V1A



RZAV100C2Y1

Wide Product Range Featuring Swing Compressor

RZAV	—	—	50 V1	60 V1	71 V1	71 Y1	85 V1	85 Y1	100 V1	100 Y1	125 V1	125 Y1	140 V1	140 Y1
	—	—	Swing compressor											
RZAC	25 V1/VM	35 V1/VM	50 V1/VM	60 V1/VM	71 V1/VM	—	85 V1	85 Y1	100 V1	100 Y1	125 V1	125 Y1	140 V1	140 Y1
	Swing compressor					—	Swing compressor							

To better suit commercial product requirements, Daikin has expanded the 3 phase product range from 71 to 140 class.*

Benefits of utilising 3 phase models over single phase models include lower minimum circuit amps, allowing for smaller gauge wires therefore reducing installation costs.

Furthermore on site electrical load balancing is not required.

*RZAV 3 phase models range from 71-140 class and RZAC 3 phase models range from 85-140 class.



Wider Capacity Range and Higher Efficiency

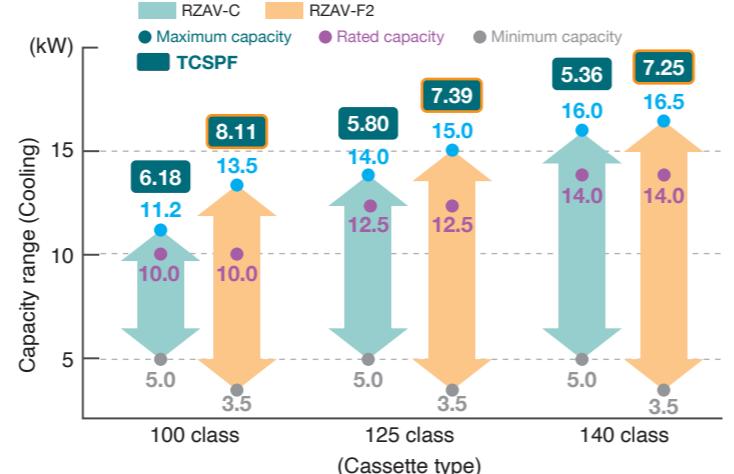
The new RZAV-F series outdoor unit can now operate at a wider capacity range with greater energy efficiency compared to RZAV-C series.

Comparison of capacity range (cooling) (Cassette type)

Class	RZAV-C		RZAV-F2	
	Min.	Max.	Min.	Max.
100	5.0	11.2	3.5	13.5
125	5.0	14.0	3.5	15.0
140	5.0	16.0	3.5	16.5

Comparison of TCSPF value (Cassette type/Average zone/commercial)

Class	RZAV-C	RZAV-F2
100	6.18	8.11
125	5.80	7.39
140	5.36	7.25



Longer Piping Length

In new RZAV-F series, maximum piping length from 71 to 140 class is increased from 75m to 85m.

Class	RZAV-C	RZAV-F
100	75 m	85 m
125	75 m	85 m
140	75 m	85 m

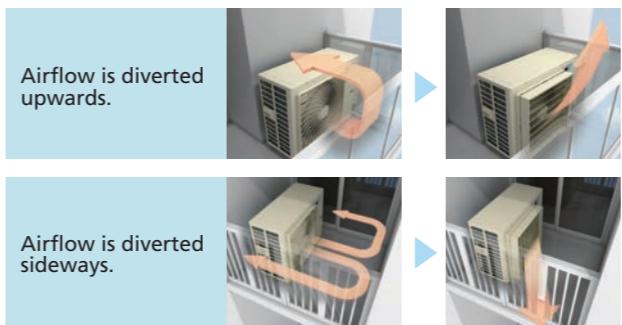
Design Flexibility of Installation

Optimum airflow direction with the optional air direction adjustment grille

The optional air direction adjustment grille can divert airflow to one of 4 directions (up, down, left or right) to avoid obstacles.



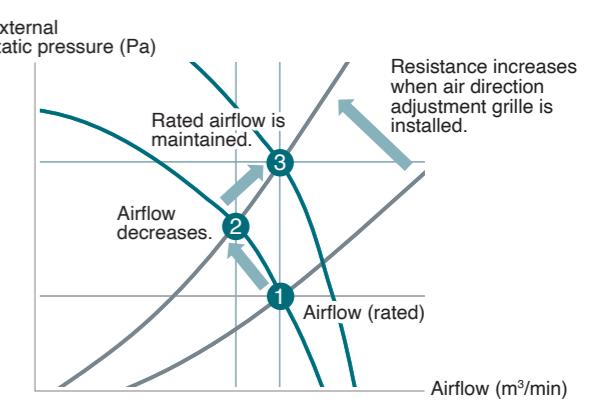
Air direction adjustment grille (option)



High E.S.P. and automatically adjusted

The new RZAV-F series outdoor unit features external static pressure up to 40 Pa, allowing for reliable operation in small installation sites where the air direction adjustment grille or ducting is utilised.

The new E.S.P. automatic adjustment function maintains rated airflow and capacity by controlling the E.S.P. during the test operation.

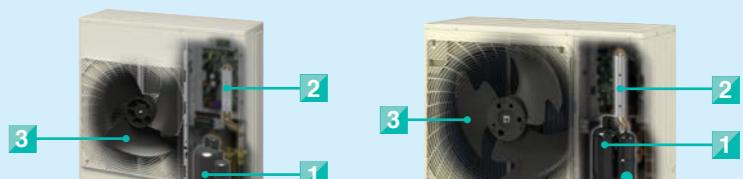
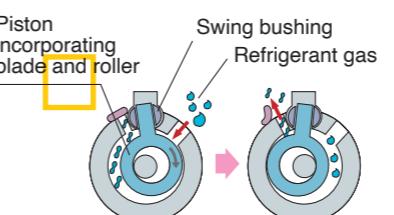


Technology for energy efficiency

1 Swing compressor

High efficiency during partial load operation.

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



New heat exchanger

- 2-sided 3-row (125/140F)
- Increased heat exchanger area

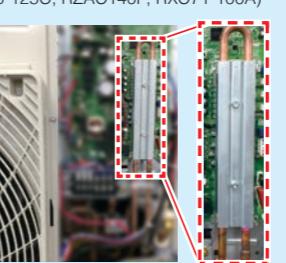


2 Refrigerant cooling

(RZAV71-100C, RZAV100-140F, RZAC85-125C, RZAC140F, RXC71-100A)

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

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



3 Fan

V-cut Propeller Fan

(RZAC25-71E, 25-71G, RZAV50/60C, RZAC71C, RXC50/60A, RZAV100-140F, RZAC140F)

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.



Imitating the performance of the swan

Stylish Remote Controller (Wired Remote Controller)

BRC1H63W/K

BRC1H
Remote controller
website

Sleek Stylish Design

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

User-friendly Interface

The new remote controller combines functionality and simplicity.

The minimalist touch button control enlarges the display and makes the remote controller both easy and enjoyable to use.



DAIKIN APP for Installer

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

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



*Apple iOS 15, Android 12.

Useful Administration / Shorter and Easier Installation

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

Owner / Administrator mode provides useful setting of
 • Setback setting • Setpoint range setting
 • Function lock etc.

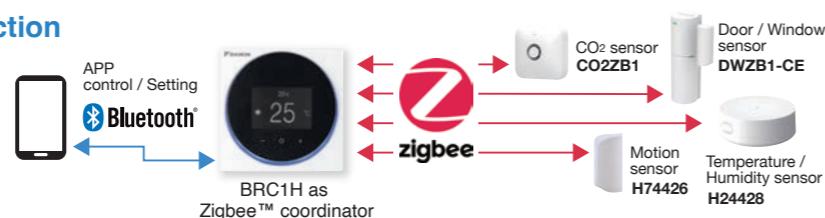
Installer mode makes installation faster and easier with
 • Set up multiple settings at once
 • Save and reuse settings etc.



*Bluetooth low energy 4.2.

Zigbee™ sensor interlocking function

Zigbee™ communication connects four kinds of sensors. (CO₂, Temperature/Humidity, Motion, and Door/Window). Sensor results can be displayed in the Sensor view and used for optimal equipment control.



Streamer function

Streamer ON/OFF setting and display of status icon.

Setback

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

Cooling operation

- Setback temperature can be set from upper limit of setpoint +1°C to 35°C.
 Ex) When upper limit temperature is set at 27°C by Setpoint range set function, Setback temperature is selectable from 28°C to 35°C.
- Recovery differential can be set up to -8°C from setback temperature.
- Setback turns ON the system for at least 30 minutes, unless the setback temperature is changed, or the system is turned ON with the ON/OFF button.

Heating operation

- Setback temperature can be set from lower limit of setpoint -1°C to 5°C.
 Ex) When lower limit temperature is set at 15°C by Setpoint range set function, Setback temperature is selectable from 14°C to 5°C.
- Recovery differential can be set up to +8°C from setback temperature.

Convenient new functions

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

"Nav Ease" (Wired Remote Controller)

BRC1E63

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

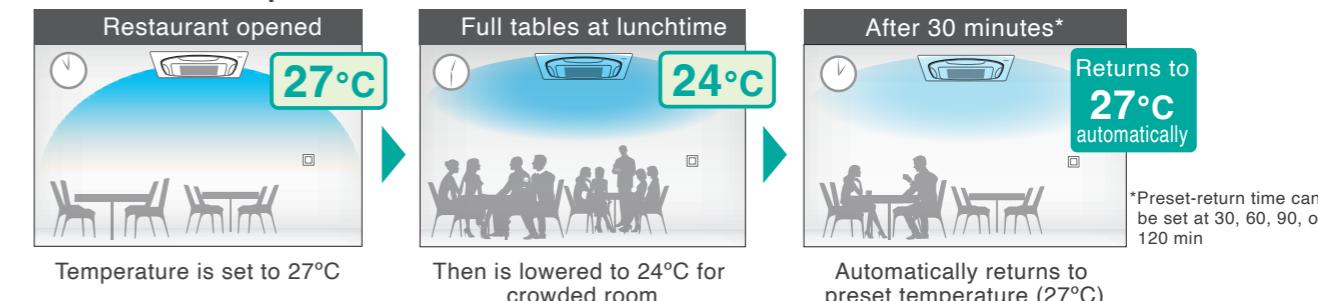


Energy Saving

Setpoint auto reset

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

Restaurant example

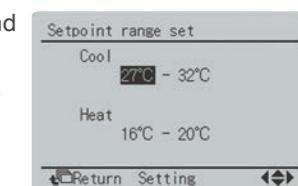


OFF timer (programmed)

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

Setpoint range set

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



Convenience

5-step airflow control

- The number of airflow steps depends on the type of indoor unit.
- 5-step control applies to FCTA, FCA, FHA, and FDYBA 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:

*Availability of this function may vary according to model (limited to partial functionality)

²Time setting is necessary.

³This function cannot be used during group control.

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

Setback (default: OFF)

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

Weekly schedule

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



Auto display off

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

Wireless Remote Controller



BRC7M634F

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.
- Backlight LCD of new wireless remote controller**



Pressing the backlight button helps operating in dark rooms.

Wireless remote controller for each indoor unit type



Heatpump	
CEILING MOUNTED CASSETTE TYPE	BRC7M634F(K)
COMPACT MULTI FLOW CEILING MOUNTED CASSETTE TYPE	BRC7M530W
CEILING SUSPENDED TYPE	BRC7M53
WALL MOUNTED TYPE	BRC7EB518
DUCT CONNECTION LOW STATIC PRESSURE TYPE (Bulkhead duct)	BRC4C65
DUCT CONNECTION MIDDLE STATIC PRESSURE TYPE	BRC4C65

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), etc.
- Remote controller is equipped with error code display functions. This facilitates service in the unlikely event of a malfunction.
*Model name display function applies to BRC1E63 only. (Some models show their model code.)

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

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

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

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

System variation to control multiple indoor units

	Control pattern	Wired remote controller	Wireless remote controller
Control by 1 remote controller	(Basic system)	<ul style="list-style-type: none"> Non-polar, double-core (max. wiring length 500 m) 	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> Connects 2 wired remote controllers (See note 1) 	<ul style="list-style-type: none"> Control by 1 wireless remote controller and 1 wired remote controller (See note 2 and 3) Signal receiver unit installed on indoor unit
Group control	For simultaneous control of up to 16 indoor units.	<ul style="list-style-type: none"> Automatic address setting function 	<ul style="list-style-type: none"> Automatic address setting function
Control by external command	Operation and monitoring is carried out using the contact signal from the operation control box in the monitoring room.	<ul style="list-style-type: none"> (Command from outside) Optional wiring adaptor for electrical appendices is necessary 	<ul style="list-style-type: none"> (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.	<ul style="list-style-type: none"> Central remote controller (option) 	<ul style="list-style-type: none"> Central remote controller (option)
	Link by remote controller group control.	<ul style="list-style-type: none"> Heat Reclaim Ventilator Can be operated simultaneously or independently by remote controller (set by ventilation mode) 	<ul style="list-style-type: none"> Heat Reclaim Ventilator Can be operated simultaneously by remote controller
Interlock control with Heat Reclaim Ventilator	Zone link control by centralised control.	<ul style="list-style-type: none"> Heat Reclaim Ventilator Central remote controller (option) 	<ul style="list-style-type: none"> Heat Reclaim Ventilator Central remote controller (option)

Note: ¹Available combinations: 1) BRC1H63W(K) (main) and BRC1H63W(K) (sub) 2) BRC1E63 (main) and BRC1E63 (sub)

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

³Available combinations: Please refer to table *4 on page 48.

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

Central remote controller	Unified on/off controller	Schedule timer	Intelligent Controller
DCS302CA61 (Option)	DCS301BA61 (Option)	DST301BA61 (Option)	DCS601C51 (Option)

Centralised control, with setting as simple as it is with a standard remote controller, of up to 64 groups (1,024 indoor units) is possible.

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

Unified control of weekly schedule for up to 1,024 indoor units. Schedule timer sets on/off time in 1 minute units to be executed twice a day for a week at a time.

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

Functions overview

Heat pump

		CEILING MOUNTED CASSETTE TYPE <Round Flow>			COMPACT MULTI FLOW CEILING MOUNTED CASSETTE TYPE			CEILING SUSPENDED TYPE			
		with Streamer		ROUND FLOW	ROUND FLOW		ROUND FLOW	ROUND FLOW		ROUND FLOW	
Indoor unit		FCTA50-140 AVMA		ROUND FLOW	FCA50-71CAVMA FCA85-140CVMA		ROUND FLOW	FFA25-71BVM		ROUND FLOW	
Heat pump		RZAV50-85C2V1, 100-140F2V1 RZAV71/85C2Y1, 100-140F2Y1 RZAC71-125C2V1, 140F2V1 RZAC85-125C2Y1, 140F2Y1		RZAV50-85C2V1, 100-140F2V1 RZAV71/85C2Y1, 100-140F2Y1 RZAC71-125C2V1, 140F2V1 RZAC85-125C2Y1, 140F2Y1		RZAC25-71E2VM		RZAV50-85C2V1, 100-140F2V1, RZAV71/85C2Y1, 100-140F2Y1		FHA50/60CAVMA FHA71-140CVMA	
Indoor unit	Outdoor unit	BRC1H63W(K)	BRC1H63W(K)	BRC1E63	—	BRC1H63W(K)	BRC1E63	—	BRC1H63W(K)	BRC1E63	—
Remote controller	Wired	—	—	—	BRC7M634F(K)	—	—	BRC7M530W	—	—	BRC7M53
Wireless	—	—	—	—	—	—	—	—	—	—	—
1	Energy consumption monitoring	●	●	●	●	●	●	●	●	●	●
2	Sensing sensor stop mode	▲	▲	▲	▲	▲	▲	●	●	●	●
3	Sensing sensor low mode *1	▲	▲	▲	▲	▲	▲	●	●	●	●
4	Auto display OFF	●	●	●	●	●	●	●	●	●	●
5	Setpoint auto reset	●	●	●	●	●	●	●	●	●	●
6	Setpoint range set	●	●	●	●	●	●	●	●	●	●
7	OFF timer (programmed)	●	●	●	●	●	●	●	●	●	●
8	Weekly schedule timer	●	●	●	●	●	●	●	●	●	●
9	ON/OFF timer	●	●	●	●	●	●	●	●	●	●
10	Circulation airflow	●	●	●	●	●	●	●	●	●	●
11	Setback	●	●	●	●	●	●	●	●	●	●
12	Quick start	●	●	●	●	●	●	●	●	●	●
13	Individual airflow control	●	●	●	●	●	●	●	●	●	●
14	Infrared presence sensor	▲	▲	▲	▲	▲	▲	▲	●	●	●
15	Infrared floor sensor	▲	▲	▲	▲	▲	▲	▲	●	●	●
16	Auto airflow function (Direct air, Draft prevention)	▲	▲	▲	▲	▲	▲	▲	●	●	●
17	Auto swing	●	●	●	●	●	●	●	●	●	●
18	Swing pattern selection	●	●	●	●	●	●	●	●	●	●
19	Draft prevention function (heating)	●	●	●	●	●	●	●	●	●	●
20	Switchable fan speed	●	5 step	●	5 step	●	5 step	●	5 step	●	5 step
21	Auto airflow rate	●	●	●	●	●	●	●	●	●	●
22	High fan speed mode	●	●	●	●	●	●	●	●	●	●
23	Two selectable temperature-sensors *2	●	●	●	●	●	●	●	●	●	●
24	High ceiling application	●	3.5m / 4.2m	●	3.5m / 4.2m	●	3.5m / 4.2m	●	3.5m	●	3.5m / 4.2m
25	Hot start	●	●	●	●	●	●	●	●	●	●
26	Year-round cooling applicable	●	●	●	●	●	●	●	●	●	●
27	Night quiet operation *3	●	●	●	●	●	●	●	●	●	●
28	Streamer filter clean unit	●	●	●	●	▲	●	●	●	●	●
29	Anti-bacterial air filter	●	●	●	●	●	●	●	●	●	●
30	Mould-proof air filter	●	●	●	●	●	●	●	●	●	●
31	Silver ion anti-bacterial drain pan	●	●	●	●	●	●	●	●	●	●
32	Auto grille panel	▲	●	●	●	●	●	●	●	●	●
33	Drain pump mechanism	●	●	●	●	●	●	●	●	●	●
34	Pre-charged for up to 30 m *3	●	(40 m for RZAV-F)	●	(40 m for RZAV-F)	●	(10 m)	●	(40 m for RZAV-F)	●	●
35	Long-life filter	●	●	●	●	●	●	●	●	●	●
36	Filter sign	●	●	●	●	●	●	●	●	●	●
37	Low gas pressure detection *3	●	●	●	●	●	●	●	●	●	●
38	Emergency operation	●	●	●	●	●	●	●	●	●	●
39	Self-diagnosis function	●	●	●	●	●	●	●	●	●	●
40	Service contact display	●	●	●	●	●	●	●	●	●	●
41	Auto-restart	●	●	●	●	●	●	●	●	●	●
42	Auto-cooling / heating change-over	●	●	●	●	●	●	●	●	●	●
43	Control by 2 remote controllers *4	●	●	●	●	●	●	●	●	●	●
44	Group control by 1 remote controller	●	●	●	●	●	●	●	●	●	●
45	External equipment interlock *5	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
46	External signal forced OFF and ON/OFF operation	●	●	●	●	●	●	●	●	●	●
47	Key card and window / door interlock *6	▲	▲	●	●	●	●	●	●	●	●
48	External command control *7	▲	●	●	●	●	●	●	●	●	●
49	Central remote control	●	●	●	●	●	●	●	●	●	●
50	Interlock control with Heat Reclaim Ventilator	●	●	●	●	●	●	●	●	●	●
51	DIII-NET communication standard	●	●	●	●	●	●	●	●	●	●
52	High-efficiency filter	▲	●	●	●	●	●	●	●	●	●
53	Ultra long-life filter	▲	●	●	●	●	●	●	●	●	●
54	High performance prefilter (MERV 8 filter)	▲	●	●	●	●	●	●	●	●	●
55	Fresh air intake kit	▲	●	●	●	●	●	●	●	●	●
56	3D auto swing discharge grille	●	●	●	●	●	●	●	●	●	●
57	Auto clean air filter unit	●	●	●	●	●	●	●	●	●	●

WALL MOUNTED TYPE		DUCT CONNECTION LOW STATIC PRESSURE TYPE (Bulkhead duct)		DUCT CONNECTION MIDDLE STATIC PRESSURE TYPE	
FTXC50-100AV1A FAA71-100BVMA		FDYBA25-71AV1		FBA50/60BAVMA FBA71-140BVMA	
RXC50-100A2V1A RZA71-100C2Y1		RZAC25-71G2V1		RZAV50-85C2V1, 100-140F2V1 RZAV71/85C2Y1, 100-140F2Y1 RZAC71/85C2V1, 85C2Y1	
BRC1H63W(K)	BRC1E63	—	BRC1H63W(K)	BRC1E63	—
—	BRC7EB18	—	—	BRC4C65	—
1	●	●	●	●	●
2	●	●	●	●	●
3	●	●	●	●	●
4	●	●	●	●	●
5	●	●	●	●	●
6	●	●	●	●	●
7	●	●	●	●	●
8	●	●	●	●	●
9	●	●	●	●	●
10	●	●	●	●	●
11	●	●	●	●	●
12	●	●	●	●	●
13	●	●	●	●	●
14	●	●	●	●	●
15	●	●	●	●	●
16	●	●	●		

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

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

Energy Saving

1. Energy consumption monitoring

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

2. Sensing sensor stop mode

When the room is unoccupied, the system stops automatically.

3. Sensing sensor low mode

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

4. Auto display OFF

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

5. Setpoint auto reset

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

6. Setpoint range set

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

7. OFF timer (programmed)

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

8. Weekly schedule timer

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

9. ON/OFF timer

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

Comfort

10. Circulation airflow

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

11. Setback

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

12. Quick start

At operation start, capacity priority operation is possible.

13. Individual airflow control

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

14. Infrared presence sensor

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

15. Infrared floor sensor

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

16. Auto airflow function

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

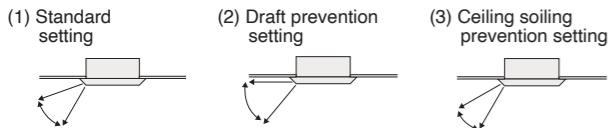
17. Auto swing

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

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

18. Swing pattern selection

You can freely set air discharge settings by remote controller.



19. Draft prevention function (heating)

To prevent cold air drafts, automatically adjusts airflow to near horizontal position when heating initially starts or when the thermo off.

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

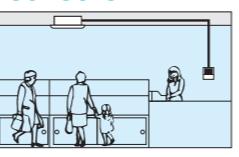
You can increase fan speed approximately 10% higher than the "high" setting.

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.

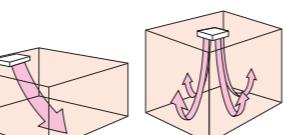
Note: Wireless remote controllers have no temperature-sensor.



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. Hot start

Cold air flow is avoided when heating operation starts or when switching to heat after defrosting.

26. Year-round cooling applicable

Efficient cooling even in winter when the indoor temperatures are higher than those outside, such as in underground public spaces or offices with many computers.

27. Night quiet operation

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

This function is convenient during the night.

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

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

Cleanliness

28. Streamer filter clean unit

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

Streamer fumigates the cabin and sterilizes the filter.

29. Anti-bacterial air filter

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

30. Mould-proof air filter

Sanitary filter has mould-resistant treatment.

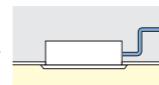
31. Silver ion anti-bacterial drain pan

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

32. Auto grille panel

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



33. Drain pump mechanism

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

34. 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.

35. Long-life filter

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

*For dust concentration of 0.15 mg/m³

36. 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.

37. 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.

38. Emergency operation

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

39. 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.

40. Service contact display

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

Control

41. 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.

42. Auto-cooling / heating change-over

Detects difference in preset temperature and actual room temperature and automatically switches to cooling or heating accordingly.

43. 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.

44. 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.)

45. External equipment interlock

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

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

46. 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.

47. Key card and window / door interlock

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

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

48. 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.

49. Central remote control

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

50. Interlock control with Heat Reclaim Ventilator

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

51. DIII-NET communication standard

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

Options

52. High-efficiency filter

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

53. Ultra long-life filter

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

*For dust concentration of 0.15 mg/m³

54. High performance prefilter (MERV 8 filter)

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

55. Fresh air intake kit

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

56. 3D auto swing discharge grille

The combination of horizontal and vertical louvers provides 3D auto swing.

57. Auto clean air filter unit

Rear suction mounted unit cleans the air filter and collects dust automatically.

SPECIFICATIONS

CEILING MOUNTED CASSETTE TYPE <Round Flow> with Streamer Premium Inverter series (1 Phase)															
CEILING MOUNTED CASSETTE TYPE <Round Flow> Premium Inverter series (1 Phase)															
Model Name	Indoor unit	50	60	71	85	100	125	140							
		FCTA50AVMA	FCTA60AVMA	FCTA71AVMA	FCTA85AVMA	FCTA100AVMA	FCTA125AVMA	FCTA140AVMA							
	Outdoor unit	RZAV50C2V1	RZAV60C2V1	RZAV71C2V1	RZAV85C2V1	RZAV100F2V1	RZAV125F2V1	RZAV140F2V1							
Power supply		1 Phase, 220-240V, 50Hz													
Cooling capacity ^{1,3} Rated (Min. - Max.)		kW	5.0 (1.4-6.0)	6.0 (1.4-7.1)	7.1 (3.2-8.0)	8.5 (4.0-10.0)	10.0 (3.5-13.5)	12.5 (3.5-15.0)	14.0 (3.5-16.5)						
Heating capacity ^{2,3} Rated (Min. - Max.)		kW	6.0 (1.4-7.1)	7.1 (1.4-8.0)	8.0 (3.5-9.0)	10.0 (4.1-11.2)	12.0 (3.5-14.5)	15.0 (3.5-17.5)	16.5 (3.5-19.5)						
Power consumption	Cooling ¹	kW	1.11	1.43	1.81	2.00	2.38	3.25	3.70						
	Heating ²	kW	1.27	1.54	1.81	2.13	2.49	3.41	4.02						
EER		kW/kW	4.50	4.20	3.92	4.25	4.21	3.85	3.78						
COP		kW/kW	4.72	4.61	4.42	4.69	4.81	4.40	4.10						
AEER*		Cooling	4.30	4.04	3.82	4.15	4.12	3.79	3.73						
ACOP*		Heating	4.53	4.46	4.30	4.59	4.72	4.34	4.05						
TCSPF* (Cooling) Commercial / Residential	Hot		6.31 / 5.72	5.99 / 5.47	5.59 / 5.14	5.76 / 5.35	7.55 / 6.49	7.02 / 6.09	6.75 / 5.91						
	Average		6.09 / 4.64	5.86 / 4.58	5.54 / 4.47	5.70 / 4.70	8.11 / 5.68	7.39 / 5.44	7.25 / 5.35						
	Cold		6.35 / 4.55	6.16 / 4.55	5.84 / 4.50	6.00 / 4.72	9.37 / 5.82	8.45 / 5.66	8.24 / 5.58						
HSPF* (Heating) Commercial / Residential	Hot		5.86 / 5.85	5.82 / 5.81	5.11 / 5.11	4.90 / 4.91	6.04 / 6.03	5.64 / 5.64	5.69 / 5.63						
	Average		5.49 / 5.25	5.42 / 5.15	4.82 / 4.65	4.72 / 4.63	5.63 / 5.30	5.23 / 4.93	5.21 / 4.81						
	Cold		4.96 / 4.64	4.83 / 4.48	4.35 / 4.09	4.35 / 4.19	5.11 / 4.73	4.71 / 4.33	4.66 / 4.22						
Indoor unit	Colour	Unit	—												
		Decoration panel	Fresh White												
	Airflow rate (H / HM / M / ML / L)	ℓ/s	383 / 350 / 308 / 267 / 225		575 / 517 / 458 / 400 / 333		608 / 558 / 500 / 442 / 383								
		m ³ /min	23.0 / 21.0 / 18.5 / 16.0 / 13.5		34.5 / 31.0 / 27.5 / 24.0 / 20.0		36.5 / 33.5 / 30.0 / 26.5 / 23.0								
	Sound pressure level ⁴ (H / HM / M / ML / L)	dB(A)	37.0 / 36.0 / 34.0 / 31.0 / 27.5		45.0 / 42.0 / 39.0 / 36.5 / 34.0		46.0 / 43.5 / 41.0 / 38.5 / 36.0								
		Dimensions (H×W×D)	Unit	256×840×840		298×840×840									
	Machine weight	mm	50×950×950		—										
		kg	22		26										
	Certified operation range	Unit	5.5		—										
		°CWB	14 to 25		—										
	Heating	°CDB	15 to 27		—										
Outdoor unit	Colour		Ivory White												
	Compressor	Type	Hermetically sealed swing type												
		Motor output	kW	1.30	2.40	3.30		—							
	Refrigerant charge (R-32)	kg	1.35 (Charged for 30 m)		2.60 (Charged for 30 m)		2.90 (Charged for 30 m)		3.70 (Charged for 40 m)						
		Sound pressure level ⁴	Cooling / Heating	48 / 51	48 / 50	52 / 53	49 / 50	50 / 51	52 / 53						
	Sound power level	dB(A)	44		48		45		46						
		dB(A)	68		67		71		—						
	Dimensions (H×W×D)		mm	595×845×300		990×940×320		870×1,100×460							
	Machine weight		kg	45		69		78							
	Certified operation range	Cooling	°CDB	-5 to 50		—									
		Heating	°CWB	-15 to 15.5		—									
Piping connections	Liquid (Flare)		mm	ø6.4		ø9.5									
	Gas (Flare)		mm	ø12.7		ø15.9									
	Drain	Indoor unit	mm	VP25 (I.D. ø25×O.D. ø32)		—									
		Outdoor unit ⁵	mm	Connectable hose I.D. ø16		Connectable hose I.D. ø25									
	Max. interunit piping length		m	50 (Equivalent length 70)		75 (Equivalent length 90)		85 (Equivalent length 100)							
Max. installation height difference		m	30												
Heat insulation				Both liquid and gas piping											



CEILING MOUNTED CASSETTE TYPE <Round Flow> with Streamer Premium Inverter series (3 Phase)				
CEILING MOUNTED CASSETTE TYPE <Round Flow> Premium Inverter series (3 Phase)				
Model Name	Indoor unit	71	85	100
		FCTA71AVMA	FCTA85AVMA	FCTA100AVMA
	Outdoor unit	RZAV71C2Y1	RZAV85C2Y1	RZAV100F2Y1
Power supply		3 Phase, 380-415V, 50Hz		
Cooling capacity ^{1,3} Rated (Min. - Max.)		kW	7.1 (3.2-8.0)	8.5 (4.0-10.0)
Heating capacity ^{2,3} Rated (Min. - Max.)		kW	8.0 (3.5-9.0)	10.0 (4.1-11.2)
Power consumption	Cooling ¹	kW	1.81	2.00
	Heating ²	kW	1.81	2.13
EER		kW/kW	3.92	4.25
COP		kW/kW	4.42	4.69
AEER*		Cooling	3.82	4.15
ACOP*		Heating	4.30	4.59
TCSPF* (Cooling) Commercial / Residential	Hot		5.59 / 5.14	5.76 / 5.35

SPECIFICATIONS



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

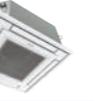
		71	85	100	125	140		
Model Name	Indoor unit	FCA71CAVMA	FCA85CVMA	FCA100CVMA	FCA125CVMA	FCA140CVMA		
	Outdoor unit	RZAC71C2V1	RZAC85C2V1	RZAC100C2V1	RZAC125C2V1	RZAC140F2V1		
Power supply		1 Phase, 220-240V, 50Hz						
Cooling capacity ^{1,3} Rated (Min. - Max.)		kW	7.1 (1.8-8.0)	8.5 (3.2-10.0)	10.0 (3.2-11.2)	12.5 (4.0-14.0)	14.0 (3.5-16.5)	
Heating capacity ^{2,3} Rated (Min. - Max.)		kW	8.0 (2.0-9.0)	10.0 (3.5-11.2)	11.2 (3.5-12.5)	14.0 (4.1-16.0)	16.0 (3.5-19.5)	
Power consumption	Cooling ¹	kW	1.83	2.25	2.67	3.53	4.18	
	Heating ²	kW	1.95	2.42	2.74	3.63	4.20	
EER	Cooling	kW/kW	3.88	3.78	3.75	3.54	3.35	
COP	Heating	kW/kW	4.10	4.13	4.09	3.86	3.81	
AEER*	Cooling		3.77	3.70	3.68	3.49	3.31	
ACOP*	Heating		3.99	4.05	4.02	3.80	3.77	
TCSPF* (Cooling) Commercial / Residential	Hot		5.50 / 5.06	5.41 / 5.00	5.23 / 4.86	5.30 / 4.91	5.28 / 4.86	
	Average		5.43 / 4.36	5.41 / 4.43	5.23 / 4.36	5.38 / 4.46	5.75 / 4.53	
	Cold		5.73 / 4.38	5.73 / 4.49	5.53 / 4.43	5.74 / 4.60	6.22 / 4.68	
HSPF* (Heating) Commercial / Residential	Hot		5.10 / 5.09	4.55 / 4.56	4.56 / 4.56	4.66 / 4.66	5.49 / 5.35	
	Average		4.78 / 4.56	4.35 / 4.24	4.34 / 4.22	4.40 / 4.22	4.99 / 4.48	
	Cold		4.31 / 4.03	4.01 / 3.84	3.98 / 3.79	4.03 / 3.80	4.43 / 3.95	
Indoor unit	Colour	Unit	—					
	Decoration panel		Fresh White					
	Airflow rate (H / HM / M / ML / L)	ℓ/s	383 / 350 / 308 / 267 / 225	575 / 517 / 458 / 400 / 333	608 / 558 / 500 / 442 / 383			
		m ³ /min	23.0 / 21.0 / 18.5 / 16.0 / 13.5	34.5 / 31.0 / 27.5 / 24.0 / 20.0	36.5 / 33.5 / 30.0 / 26.5 / 23.0			
	Sound pressure level ⁴ (H / HM / M / ML / L)	dB(A)	37.0 / 36.0 / 34.0 / 31.0 / 27.5	45.0 / 42.0 / 39.0 / 36.5 / 34.0	46.0 / 43.5 / 41.0 / 38.5 / 36.0			
	Dimensions (H×W×D)	Unit	mm	256×840×840	298×840×840			
		Decoration panel	mm	50×950×950				
	Machine weight	Unit	kg	22	26			
		Decoration panel	kg	5.5				
	Certified operation range	Cooling	°CWB	14 to 25				
		Heating	°CDB	15 to 27				
Outdoor unit	Colour	Ivory White						
	Compressor	Type	Hermetically sealed swing type					
		Motor output	kW	1.30	2.40	3.30		
	Refrigerant charge (R-32)	kg	1.70 (Charged for 30 m)	2.60 (Charged for 30 m)	2.90 (Charged for 30 m)	3.70 (Charged for 30 m)		
	Sound pressure level ⁴	Cooling / Heating	dB(A)	48 / 51	51 / 54	52 / 54	53 / 54	
		Night quiet mode	dB(A)	44	47	48	49	
	Sound power level	dB(A)	68	70	71	—	—	
	Dimensions (H×W×D)	mm	595×840×300	990×940×320	870×1,100×460			
	Machine weight	kg	45	69	78	95		
	Certified operation range	Cooling	°CDB	-5 to 46				
		Heating	°CWB	-15 to 15.5				
Piping connections	Liquid (Flare)	mm	ø9.5					
	Gas (Flare)	mm	ø15.9					
	Drain	Indoor unit	mm	VP25 (I.D. ø25×O.D. ø32)				
		Outdoor unit ⁵	mm	Connectable hose I.D. ø25				
Max. interunit piping length		m	50 (Equivalent length 70)					
Max. installation height difference		m	30					
Heat insulation			Both liquid and gas piping					

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

		85	100	125	140			
Model Name	Indoor unit	FCA85CVMA	FCA100CVMA	FCA125CVMA	FCA140CVMA			
	Outdoor unit	RZAC85C2Y1	RZAC100C2Y1	RZAC125C2Y1	RZAC140F2Y1			
Power supply		3 Phase, 380-415V, 50Hz						
Cooling capacity ^{1,3} Rated (Min. - Max.)		kW	8.5 (3.2-10.0)	10.0 (3.2-11.2)	12.5 (4.0-14.0)	14.0 (3.5-16.5)		
Heating capacity ^{2,3} Rated (Min. - Max.)		kW	10.0 (3.5-11.2)	11.2 (3.5-12.5)	14.0 (4.1-16.0)	16.0 (3.5-19.5)		
Power consumption	Cooling ¹	kW	2.25	2.67	3.53	4.18		
	Heating ²	kW	2.42	2.74	3.63	4.20		
EER	Cooling	kW/kW	3.78	3.75	3.54	3.35		
COP	Heating	kW/kW	4.13	4.09	3.86	3.81		
AEER*	Cooling		3.70	3.68	3.49	3.31		
ACOP*	Heating		4.05	4.02	3.80	3.77		
TCSPF* (Cooling) Commercial / Residential	Hot		5.41 / 5.00	5.23 / 4.86	5.30 / 4.91	5.28 / 4.86		
	Average		5.41 / 4.43	5.23 / 4.36	5.38 / 4.46	5.75 / 4.53		
	Cold		5.73 / 4.49	5.53 / 4.43	5.74 / 4.60	6.22 / 4.68		
HSPF* (Heating) Commercial / Residential	Hot		4.55 / 4.56	4.56 / 4.56	4.66 / 4.66	5.49 / 5.35		
	Average		4.35 / 4.24	4.34 / 4.22	4.40 / 4.22	4.99 / 4.48		
	Cold		4.01 / 3.84	3.98 / 3.79	4.03 / 3.80	4.43 / 3.95		
Indoor unit	Colour	Unit	—					
	Decoration panel		Fresh White					
	Airflow rate (H / HM / M / ML / L)	ℓ/s	575 / 517 / 458 / 400 / 333	608 / 558 / 500 / 442 / 383				
		m ³ /min	34.5 / 31.0 / 27.5 / 24.0 / 20.0	36.5 / 33.5 / 30.0 / 26.5 / 23.0				
	Sound pressure level ⁴ (H / HM / M / ML / L)	dB(A)	45.0 / 42.0 / 39.0 / 36.5 / 34.0	46.0 / 43.5 / 41.0 / 38.5 / 36.0				
	Dimensions (H×W×D)	Unit	mm	298×840×840				
		Decoration panel	mm	50×950×950				
	Machine weight	Unit	kg	26				
		Decoration panel	kg	5.5				
	Certified operation range	Cooling	°CWB	14 to 25				
		Heating	°CDB	15 to 27				
Outdoor unit	Colour	Ivory White						
	Compressor	Type	Hermetically sealed swing type					

SPECIFICATIONS

COMPACT MULTI FLOW CEILING MOUNTED CASSETTE TYPE Inverter series (1 Phase)



		25	35	50	60	71			
Model Name	Indoor unit	FFA25BVM	FFA35BVM	FFA50BVM	FFA60BVM	FFA71BVM			
	Outdoor unit	RZAC25E2VM	RZAC35E2VM	RZAC50E2VM	RZAC60E2VM	RZAC71E2VM			
Power supply									
Cooling capacity ^{1,3} Rated (Min. - Max.)	kW	2.5 (1.2-3.0)	3.5 (1.3-4.0)	5.0 (1.5-6.0)	6.0 (1.5-7.0)	7.1 (1.5-7.6)			
Heating capacity ^{2,3} Rated (Min. - Max.)	kW	3.2 (1.0-3.7)	4.2 (1.0-4.3)	6.0 (1.4-7.0)	7.1 (1.4-8.0)	8.0 (1.4-8.4)			
Power consumption	Cooling ¹	kW	0.54	0.88	1.11	1.50			
	Heating ²	kW	0.75	1.09	1.55	1.90			
EER	Cooling	kW/kW	4.63	3.98	4.50	4.00			
COP	Heating	kW/kW	4.27	3.85	3.87	3.74			
AEER*	Cooling		4.45	3.88	4.42	3.94			
ACOP*	Heating		4.15	3.78	3.82	3.69			
TCSPF* (Cooling) Commercial / Residential	Hot		6.05 / 5.57	5.69 / 5.24	6.17 / 5.74	5.90 / 5.47			
	Average		5.85 / 4.67	5.66 / 4.59	6.15 / 5.14	5.98 / 4.96			
	Cold		6.10 / 4.59	5.98 / 4.64	6.49 / 5.20	6.36 / 5.11			
HSPF* (Heating) Commercial / Residential	Hot		4.75 / 4.75	4.65 / 4.64	4.87 / 4.87	4.72 / 4.71			
	Average		4.52 / 4.39	4.33 / 4.13	4.56 / 4.34	4.41 / 4.19			
	Cold		4.14 / 3.93	3.87 / 3.58	4.12 / 3.84	3.98 / 3.70			
Indoor unit	Colour	Unit	—						
	Decoration panel		White						
	Airflow rate (H / M / L)		ℓ/s	150 / 133 / 108	167 / 142 / 108	200 / 167 / 125			
			m³/min	9.0 / 8.0 / 6.5	10.0 / 8.5 / 6.5	12.0 / 10.0 / 7.5			
	Sound pressure level ⁴ (H / M / L)		dB(A)	31.0 / 28.5 / 25.0	34.0 / 30.5 / 25.0	39.0 / 34.0 / 27.0			
	Sound power level		dB(A)	48	51	56			
				60					
Dimensions (H×W×D)	Unit	mm	260×575×575 (+63) ⁵						
	Decoration panel	mm	46×620×620						
Machine weight	Unit	kg	16	17.5					
	Decoration panel	kg	2.8						
Certified operation range	Cooling	°CWB	14 to 23						
	Heating	°CDB	10 to 30						
Outdoor unit	Colour		Ivory White						
	Compressor	Type	Hermetically sealed swing type						
		Motor output	kW	0.8	1.3				
	Refrigerant charge (R-32)		kg	0.73 (Charged for 10 m)	1.50 (Charged for 10 m)				
	Sound pressure level ⁴ Cooling / Heating		dB(A)	46 / 47	48 / 48	49 / 52			
	Sound power level		dB(A)	59	61	62			
	Dimensions (H×W×D)		mm	550×675×284	695×930×350				
Piping connections	Machine weight		kg	28	54				
	Certified operation range	Cooling	°CDB	-10 to 46					
		Heating	°CWB	-15 to 18					
Piping connections	Liquid (Flare)		mm	ø6.4					
	Gas (Flare)		mm	ø9.5	ø12.7				
	Drain	Indoor unit	mm	VP20 (I.D. ø20×O.D. ø26)					
		Outdoor unit ⁶	mm	Connectable hose I.D. ø16					
Max. interunit piping length		m	20 (Equivalent length 45)	30 (Equivalent length 45)					
Max. installation height difference		m	15	20					
Heat insulation									

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

²Rated heating capacities are based on the following conditions: Indoor temp., 20°CDB, 15°CWB; outdoor temp., 7°CDB, 6°CWB. Equiv. refrigeration piping, 7.5 m (horizontal).

³Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

⁴The 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.

⁵Dimension including Electric box.

⁶Drain socket is necessary.

★ Values based on GEMS determination 2019.

TCSPF: Total Cooling Seasonal Performance Factor
HSPF: Heating Seasonal Performance Factor

In simple terms, TCSPF & HSPF represents the ratio of the Total Cooling & Heating capacity of the air-conditioner relative to the Total energy consumed by the air-conditioner during the Total Cooling & Heating operation periods in a year.

Whereas the previous index of AEER & ACOP was calculated using only one representative outdoor temperature (35°C for cooling and 7°C for heating), the new index of TCSPF & HSPF uses a broader range of annual outdoor temperatures* as stipulated in AS/NZS 3823.4.1:2014.

Further, the annual outdoor temperatures are based on zoning Australia/ New Zealand into three distinct climate zones (Hot/Average/Cold). This allows you to determine the performance efficiency of different air-conditioners by comparing their TCSPF & HSPF within the same climate zone.

* Residential & Commercial TCSPF/HSPF are calculated based on different annual outdoor temperatures.

CEILING SUSPENDED TYPE

Premium Inverter series (1 Phase)

CEILING SUSPENDED TYPE Premium Inverter series (1 Phase)



		Indoor unit	50	60	71	85	100	125	140
Model Name	Indoor unit	FHA50CAVMA	FHA60CAVMA	FHA71CVMA	FHA85CVMA	FHA100CVMA	FHA125CVMA	FHA140CVMA	
	Outdoor unit	RZAV50C2V1	RZAV60C2V1	RZAV71C2V1	RZAV85C2V1	RZAV100F2V1	RZAV125F2V1	RZAV140F2V1	
Power supply									
Cooling capacity ^{1,3} Rated (Min. - Max.)	kW	5.0 (1.4-6.0)	6.0 (1.4-7.1)	7.1 (3.2-8.0)	8.5 (4.0-10.0)	10.0 (3.5-12.0)	12.5 (3.5-14.0)	14.0 (3.5-15.0)	
Heating capacity ^{2,3} Rated (Min. - Max.)	kW	6.0 (1.4-7.1)	7.1 (1.4-8.0)	8.0 (3.5-9.0)	10.0 (4.1-11.2)	12.0 (3.5-14.0)	15.0 (3.5-16.0)	16.5 (3.5-18.0)	
Power consumption	Cooling ¹	kW	1.42	1.80	2.12	2.51	2.78	3.65	4.13
	Heating ²	kW	1.66	2.09	2.26	2.75	3.22	4.21	4.77
EER	Cooling	kW/kW	3.52	3.33	3.35	3.39	3.60	3.42	3.39
COP	Heating	kW/kW	3.61	3.40	3.54	3.64	3.73	3.56	3.46
AEER*	Cooling		3.39	3.24	3.27	3.32	3.54	3.37	3.35
ACOP*	Heating		3.50	3.31	3.46	3.57	3.67	3.52	3.42
TCSPF* (Cooling) Commercial / Residential	Hot		5.65 / 5.08	5.23 / 4.76	5.01 / 4.61	5.22 / 4.79	6.83 / 5.87	6.08 / 5.31	5.99 / 5.26
	Average		5.59 / 4.19	5.22 / 4.05	5.03 / 4.04	5.27 / 4.25	7.48 / 5.20	6.71 / 4.84	6.73 / 4.85
	Cold		5.92 / 4.21	5.55 / 4.11	5.34 / 4.11	5.63 / 4.37	8.71 / 5.40	7.70 / 5.01	7.72 / 5.03
HSPF* (Heating) Commercial / Residential	Hot		5.00 / 4.98	4.85 / 4.83	4.48 / 4.47	4.59 / 4.58	5.89 / 5.80	5.46 / 5.36	5.39 / 5.27
	Average</td								

SPECIFICATIONS

CEILING SUSPENDED TYPE

Premium Inverter series

(3 Phase)



WALL MOUNTED TYPE

Premium Inverter series

(1 Phase)



Model Name	Indoor unit		71	85	100	125	140	
	Outdoor unit		FHA71CVMA	FHA85CVMA	FHA100CVMA	FHA125CVMA	FHA140CVMA	
Power supply		3 Phase, 380-415V, 50Hz						
Cooling capacity ^{1,3} Rated (Min. - Max.)		kW	7.1 (3.2-8.0)	8.5 (4.0-10.0)	10.0 (3.5-12.0)	12.5 (3.5-14.0)	14.0 (3.5-15.0)	
Heating capacity ^{2,3} Rated (Min. - Max.)		kW	8.0 (3.5-9.0)	10.0 (4.1-11.2)	12.0 (3.5-14.0)	15.0 (3.5-16.0)	16.5 (3.5-18.0)	
Power consumption	Cooling ¹	kW	2.12	2.51	2.78	3.65	4.13	
	Heating ²	kW	2.26	2.75	3.22	4.21	4.77	
EER	Cooling	kW/kW	3.35	3.39	3.60	3.42	3.39	
COP	Heating	kW/kW	3.54	3.64	3.73	3.56	3.46	
AEER*	Cooling		3.27	3.32	3.54	3.37	3.35	
ACOP*	Heating		3.46	3.57	3.67	3.52	3.42	
TCSPF* (Cooling) Commercial / Residential	Hot		5.01 / 4.61	5.22 / 4.79	6.83 / 5.87	6.08 / 5.31	5.99 / 5.26	
	Average		5.03 / 4.04	5.27 / 4.25	7.48 / 5.20	6.71 / 4.84	6.73 / 4.85	
	Cold		5.34 / 4.11	5.63 / 4.37	8.71 / 5.40	7.70 / 5.01	7.72 / 5.03	
HSPF* (Heating) Commercial / Residential	Hot		4.48 / 4.47	4.59 / 4.58	5.89 / 5.80	5.46 / 5.36	5.39 / 5.27	
	Average		4.18 / 3.98	4.31 / 4.12	5.26 / 4.71	4.87 / 4.34	4.80 / 4.28	
	Cold		3.80 / 3.54	3.95 / 3.71	4.61 / 4.07	4.21 / 3.68	4.16 / 3.64	
Indoor unit	Colour	White						
	Airflow rate (H / HM / M / ML / L)	ℓ/s	342 / 313 / 283 / 258 / 233	467 / 433 / 400 / 367 / 333	517 / 483 / 450 / 417 / 383	567 / 525 / 483 / 442 / 400		
		m³/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		
	Sound pressure level ⁴ (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	235×1,270×690	235×1,590×690				
	Machine weight	kg	32	38				
Certified operation range	Cooling	°CWB	14 to 25					
	Heating	°CDB	15 to 27					
Outdoor unit	Colour	Ivory White						
	Compressor	Type	Hermetically sealed swing type					
		Motor output	kW	2.40	3.30			
	Refrigerant charge (R-32)	kg	2.60 (Charged for 30 m)	2.90 (Charged for 30 m)	3.20 (Charged for 40 m)	3.70 (Charged for 40 m)		
	Sound pressure level ⁴	Cooling / Heating	dB(A)	48 / 50	52 / 53	49 / 50	50 / 51	52 / 53
		Night quiet mode	dB(A)	44	48	45	46	48
	Sound power level	dB(A)	67	71	68	—	—	
	Dimensions (H×W×D)	mm	990×940×320		870×1,100×460			
	Machine weight	kg	69	78	93	95		
	Certified operation range	°CDB	-5 to 50					
		°CWB	-15 to 15.5					
Piping connections	Liquid (Flare)	mm	ø9.5					
	Gas (Flare)	mm	ø15.9					
	Drain	Indoor unit	mm	VP20 (I.D.ø20×O.D.ø26)				
		Outdoor unit ⁵	mm	Connectable hose I.D. ø25				
Max. interunit piping length		m	75 (Equivalent length 90)		85 (Equivalent length 100)			
Max. installation height difference		m	30					
Heat insulation		Both liquid and gas piping						

WALL MOUNTED TYPE

Premium Inverter series

(1 Phase)

Model Name	Indoor unit		50	60	71	85	100	
	Outdoor unit		FTXC50AV1A	FTXC60AV1A	FTXC71AV1A	FTXC85AV1A	FTXC100AV1A	
Power supply		1 Phase, 220-240V, 50Hz						
Cooling capacity ^{1,3} Rated (Min. - Max.)		kW	5.0 (1.4-6.0)	6.0 (1.4-7.1)	7.1 (3.2-8.0)	8.5 (4.0-10.0)	10.0 (5.0-12.2)	
Heating capacity ^{2,3} Rated (Min. - Max.)		kW	6.0 (1.4-7.1)	7.1 (1.4-8.0)	8.0 (3.5-9.0)	10.0 (4.1-11.2)	11.2 (5.1-12.5)	
Power consumption	Cooling ¹	kW	1.45	1.80	2.22	2.59	3.11	
	Heating ²	kW	1.61	2.05	2.37	3.01	3.48	
EER	Cooling	kW/kW	3.45	3.33	3.20	3.28	3.22	
COP	Heating	kW/kW	3.73	3.46	3.38	3.32	3.22	
AEER*	Cooling		3.33	3.24	3.13	3.22	3.16	
ACOP*	Heating		3.61	3.38	3.31	3.27	3.17	
TCSPF* (Cooling) Commercial / Residential	Hot		5.30 / 4.80	5.01 / 4.58	4.85 / 4.46	5.01 / 4.61	5.03 / 4.63	
	Average		5.23 / 3.99	4.98 / 3.92	4.88 / 3.92	5.06 / 4.10	5.12 / 4.17	
	Cold		5.53 / 4.00	5.27 / 3.95	5.19 / 4.00	5.40 / 4.21	5.48 / 4.31	
HSPF* (Heating) Commercial / Residential	Hot		5.39 / 5.36	5.16 / 5.13	4.47 / 4.46	4.49 / 4.48	4.66 / 4.64	
	Average		4.96 / 4.64	4.71 / 4.38	4.16 / 3.94	4.17 / 3.93	4.25 / 3.95	
	Cold		4.50 / 4.14	4.22 / 3.84	3.79 / 3.52	3.77 / 3.49	3.77 / 3.42	
Indoor unit	Colour	Fresh white						
	Airflow rate (H / M / L)	ℓ/s	300 / 267 / 233					
		m³/min	18.0 / 16.0 / 14.0					
	Sound pressure level ⁴ (H / M / L)	dB(A)	45.0 / 42.0 / 40.0					
	Sound power level (H / M / L)	dB(A)	61 / 58 / 56					
	Dimensions (H×W×D)	mm	290×1,050×238					
Outdoor unit	Machine weight	kg	13					
	Certified operation range	°CWB	14 to 25					

SPECIFICATIONS

DUCT CONNECTION MIDDLE STATIC PRESSURE TYPE Premium Inverter series (1 Phase)																				
Model Name	Indoor unit		FBA50BAVMA	FBA60BAVMA	FBA71BVMA	FBA85BVMA	FBA100BVMA	FBA125BVMA	FBA140BVMA											
	Outdoor unit		RZAV50C2V1	RZAV60C2V1	RZAV71C2V1	RZAV85C2V1	RZAV100F2V1	RZAV125F2V1	RZAV140F2V1											
Power supply	Indoor unit		1 Phase, 220-240V, 50Hz																	
	Outdoor unit		1 Phase, 220-240V, 50Hz																	
Cooling capacity ^{1,3} Rated (Min. - Max.)		kW	5.0 (1.4-6.0)	6.0 (1.4-7.1)	7.1 (3.2-8.0)	8.5 (4.0-10.0)	10.0 (3.5-11.5)	12.5 (3.5-14.0)	14.0 (3.5-15.0)											
Heating capacity ^{2,3} Rated (Min. - Max.)		kW	6.0 (1.4-7.1)	7.1 (1.4-8.0)	8.0 (3.5-9.0)	10.0 (4.1-11.2)	12.0 (3.5-14.0)	15.0 (3.5-16.5)	16.5 (3.5-18.0)											
Power consumption	Cooling ¹	kW	1.37	1.67	2.02	2.30	2.79	3.68	4.28											
	Heating ²	kW	1.41	1.71	1.99	2.50	2.92	3.88	4.52											
EER	Cooling	kW/kW	3.65	3.59	3.51	3.70	3.58	3.40	3.27											
COP	Heating	kW/kW	4.26	4.15	4.02	4.00	4.11	3.87	3.65											
AEER*	Cooling		3.51	3.48	3.43	3.62	3.52	3.36	3.23											
ACOP*	Heating		4.10	4.03	3.92	3.92	4.04	3.82	3.61											
TCSPF* (Cooling) Commercial / Residential	Hot		5.06 / 4.63	4.98 / 4.58	4.88 / 4.52	5.17 / 4.79	6.46 / 5.55	5.64 / 5.03	5.50 / 4.90											
	Average		4.93 / 3.87	4.89 / 3.92	4.84 / 3.97	5.15 / 4.26	6.92 / 4.92	6.21 / 4.62	6.09 / 4.53											
	Cold		5.16 / 3.83	5.14 / 3.91	5.11 / 4.00	5.45 / 4.31	8.01 / 5.07	6.98 / 4.76	6.88 / 4.69											
HSPF* (Heating) Commercial / Residential	Hot		5.01 / 5.01	4.94 / 4.94	4.49 / 4.49	4.64 / 4.64	5.61 / 5.57	5.38 / 5.32	5.35 / 5.24											
	Average		4.74 / 4.57	4.66 / 4.47	4.27 / 4.14	4.41 / 4.27	5.14 / 4.75	4.90 / 4.49	4.84 / 4.35											
	Cold		4.35 / 4.11	4.22 / 3.96	3.91 / 3.71	4.06 / 3.87	4.61 / 4.18	4.32 / 3.88	4.25 / 3.77											
Indoor unit	Colour	Unit	—																	
	Fan	Airflow rate (H / M / L)	ℓ/s	300 / 250 / 208	383 / 325 / 267	533 / 450 / 375	600 / 508 / 417													
		m ³ /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													
	External static pressure ⁴		Rated 50 (50-150)																	
	Sound pressure level ⁵ (H / M / L)		dB(A)	35.0 / 33.0 / 31.0	38.0 / 35.0 / 33.0	38.0 / 35.5 / 33.0	40.0 / 37.5 / 35.0													
	Sound power level (H)		dB(A)	63	66	68	—													
	Air filter ⁶		—																	
	Dimensions (H×W×D)		mm	245×1,000×800	245×1,400×800	—														
	Machine weight		kg	37	47	—														
	Certified operation range	Cooling	°CWB	14 to 25																
		Heating	°CDB	15 to 27																
Outdoor unit	Colour	Ivory White																		
	Compressor	Type	Hermetically sealed swing type																	
		Motor output	kW	1.30	2.40	3.30	—													
	Refrigerant charge (R-32)		kg	1.35 (Charged for 30 m)	2.60 (Charged for 30 m)	2.90 (Charged for 30 m)	3.20 (Charged for 40 m)	3.70 (Charged for 40 m)	—											
	Sound pressure level ⁵	Cooling / Heating	dB(A)	48 / 51	48 / 50	52 / 53	49 / 50	50 / 51	52 / 53	—										
		Night quiet mode	dB(A)	44	48	45	46	48	—											
	Sound power level		dB(A)	68	67	71	68	—	—	—										
	Dimensions (H×W×D)		mm	595×845×300	990×940×320	870×1,100×460	—													
	Machine weight		kg	45	69	78	93	95	—											
	Certified operation range	Cooling	°CDB	-5 to 50						—										
		Heating	°CWB	-15 to 15.5						—										
Piping connections	Liquid (Flare)		mm	ø6.4	ø9.5						—									
	Gas (Flare)		mm	ø12.7	ø15.9						—									
	Drain	Indoor unit	mm	VP25 (I.D. ø25×O.D. ø32)						—										
		Outdoor unit ⁷	mm	Connectable hose I.D. ø16	Connectable hose I.D. ø25						—									
	Max. interunit piping length		m	50 (Equivalent length 70)	75 (Equivalent length 90)	85 (Equivalent length 100)	—				—									
	Max. installation height difference		m	30						30										
	Heat insulation		Both liquid and gas piping						Both liquid and gas piping											

DUCT CONNECTION MIDDLE STATIC PRESSURE TYPE Premium Inverter series (3 Phase)								
Model Name	Indoor unit		FBA71BVMA	FBA85BVMA	FBA100BVMA	FBA125BVMA	FBA140BVMA	
	Outdoor unit		RZAV71C2Y1	RZAV85C2Y1	RZAV100F2Y1	RZAV125F2Y1	RZAV140F2Y1	
Power supply	Indoor unit		1 Phase, 220-240V, 50Hz					
	Outdoor unit		3 Phase, 380-415V, 50Hz					
Cooling capacity ^{1,3} Rated (Min. - Max.)		kW	7.1 (3.2-8.0)	8.5 (4.0-10.0)	10.0 (3.5-11.5)	12.5 (3.5-14.0)	14.0 (3.5-15.0)	
Heating capacity ^{2,3} Rated (Min. - Max.)		kW	8.0 (3.5-9.0)	10.0 (4.1-11.2)	12.0 (3.5-14.0)	15.0 (3.5-16.5)	16.5 (3.5-18.0)	
Power consumption	Cooling ¹	kW	2.02	2.30	2.79	3.68	4.28	
	Heating ²	kW	1.99	2.50	2.92	3.88	4.52	
EER	Cooling	kW/kW	3.5					

DUCT CONNECTION MIDDLE STATIC PRESSURE TYPE

Inverter series (1 Phase, 3 Phase)



Model Name	Indoor unit		FBA71BVMA	85	
	Outdoor unit		RZAC71C2V1	RZAC85C2V1	RZAC85C2Y1
Power supply	Indoor unit		1 Phase, 220-240V, 50Hz		
	Outdoor unit		1 Phase, 220-240V, 50Hz		3 Phase, 380-415V, 50Hz
Cooling capacity ^{1,3} Rated (Min. - Max.)	kW	7.1 (1.8-8.0)		8.5 (3.2-10.0)	
Heating capacity ^{2,3} Rated (Min. - Max.)	kW	8.0 (2.0-9.0)		10.0 (3.5-11.2)	
Power consumption	Cooling ¹	kW	2.15	2.64	
	Heating ²	kW	2.30	2.95	
EER	Cooling	kW/kW	3.30	3.22	
COP	Heating	kW/kW	3.48	3.39	
AEER*	Cooling		3.22	3.16	
ACOP*	Heating		3.40	3.33	
TCSPF* (Cooling) Commercial / Residential	Hot		4.51 / 4.18	4.67 / 4.32	
	Average		4.46 / 3.67	4.69 / 3.87	
	Cold		4.70 / 3.69	4.98 / 3.95	
HSFP* (Heating) Commercial / Residential	Hot		3.95 / 3.96	4.25 / 4.24	
	Average		3.79 / 3.68	4.00 / 3.83	
	Cold		3.56 / 3.42	3.70 / 3.49	
Indoor unit	Colour	Unit			
Fan	Airflow rate (H / M / L)	ℓ/s	383 / 325 / 267	533 / 450 / 375	
		m³/min	23.0 / 19.5 / 16.0	32.0 / 27.0 / 22.5	
	External static pressure ⁴		Rated 50 (50-150)		
Sound pressure level ⁵ (H / M / L)	dB(A)	38.0 / 35.0 / 33.0	38.0 / 35.5 / 33.0		
Sound power level (H)	dB(A)		66		
Air filter ⁶					
Dimensions (H×W×D)	mm	245×1,000×800	245×1,400×800		
Machine weight	kg	37	47		
Certified operation range	Cooling	°CWB	14 to 25		
	Heating	°CDB	15 to 27		
Outdoor unit	Colour		Ivory White		
Compressor	Type		Hermetically sealed swing type		
	Motor output	kW	1.30	2.40	
Refrigerant charge (R-32)	kg	1.70 (Charged for 30 m)	2.60 (Charged for 30 m)		
Sound pressure level ⁶	Cooling / Heating	dB(A)	48 / 51	51 / 54	
	Night quiet mode	dB(A)	44	47	
Sound power level	dB(A)	68	70		
Dimensions (H×W×D)	mm	595×845×300	990×940×320		
Machine weight	kg	45	69		
Certified operation range	Cooling	°CDB	-5 to 46		
	Heating	°CWB	-15 to 15.5		
Piping connections	Liquid (Flare)	mm	ø9.5		
	Gas (Flare)	mm	ø15.9		
Drain	Indoor unit	mm	VP25 (I.D. ø25×O.D. ø32)		
	Outdoor unit ⁷	mm	Connectable hose I.D. ø16	Connectable hose I.D. ø25	
Max. interunit piping length	m		50 (Equivalent length 70)		
Max. installation height difference	m		30		
Heat insulation			Both liquid and gas piping		

Note :

¹Rated cooling capacities are based on the following conditions: Indoor temp., 27°CDB, 19°CWB; outdoor temp. 35°CDB, 24°CWB. Equiv. refrigeration piping, 7.5 m (horizontal)²Rated heating capacities are based on the following conditions: Indoor temp., 20°CDB, 15°CWB; outdoor temp., 7°CDB, 6°CWB. Equiv. refrigeration piping, 7.5 m (horizontal)³Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.⁴External static pressure is changeable in 11 stages by remote controller.⁵The 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.⁶Air 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.⁷Drain socket is necessary.

★ Values based on GEMS determination 2019.

TCSPF: Total Cooling Seasonal Performance Factor

HSFP: Heating Seasonal Performance Factor

In simple terms, TCSPF & HSFP represents the ratio of the Total Cooling & Heating capacity of the air-conditioner relative to the Total energy consumed by the air-conditioner during the Total Cooling & Heating operation periods in a year.

Whereas the previous index of AEER & ACOP was calculated using only one representative outdoor temperature (35°C for cooling and 7°C for heating), the new index of TCSPF & HSFP uses a broader range of annual outdoor temperatures* as stipulated in AS/NZS 3823.4.1:2014.

Further, the annual outdoor temperatures are based on zoning Australia/ New Zealand into three distinct climate zones (Hot/Average/Cold). This allows you to determine the performance efficiency of different air-conditioners by comparing their TCSPF & HSFP within the same climate zone.

* Residential & Commercial TCSPF/HSFP are calculated based on different annual outdoor temperatures.

Indoor unit

CEILING MOUNTED CASSETTE TYPE <Round Flow>with Streamer



No.	Name of option	Remark	Kit name						
			FCTA50AVMA	FCTA60AVMA	FCTA71AVMA	FCTA85AVMA	FCTA100AVMA	FCTA125AVMA	FCTA140AVMA
1	Standard panel with Sensing	Fresh white							BYCQ125EEF
		Black							BYCQ125EEK
		Standard panel	Fresh white						BYCQ125EAF
	Auto grille panel ^{1,2}	Black							BYCQ125EAK
		Fresh white							BYCQ125EBSF
2	Panel spacer								KDB55J160F
3	Fresh air intake kit	Chamber type ^{3,4}	Without T-duct joint	KDDP55C160 (Components: KDDP55C160-1, KDDP55C160-2) ⁶					
		With T-duct joint		KDDP55C160K (Components: KDDP55C160-1, KDDP55C160K2) ⁶					
	Direct installation type ⁵			KDDP55X160A					
4	High-efficiency filter unit ⁷ (Including filter chamber)	(Colorimetric method 65%) (Colorimetric method 90%)		KAF556D80					KAF556D160
5	Replacement high-efficiency filter ^{7,8}	(Colorimetric method 65%) (Colorimetric method 90%)		KAF557D80					KAF557D160
				KAF552D80					KAF552D160
6	Filter chamber								KDDFP55C160
7	High performance prefilter (MERV 8 filter) ⁷								BAF552A160
8	Replacement long-life filter								KAF5511D160
9	Replacement long-life filter (Auto grille panel)								KAF5512D160
10	Ultra long-life filter unit (Including filter chamber) ⁷								KAF555D160
11	Replacement ultra long-life filter ^{7,8}								KAF550D160
12	Insulation kit for high humidity ^{7,9}			KDTP55K80B					KDTP55K160B
13	Stylish Remote Controller								BRC1H63W (White) / BRC1H63K (Black)
14	Central remote controller ¹¹								DCS302CA61
15	Unified ON/OFF controller ¹¹								DCS301BA61
16	Schedule timer ¹¹								DST301BA61
17	intelligent Touch Controller ¹¹								DCS601C51
18	Adaptor for wiring ¹²								BRP11B62
19	Wiring adaptor for electrical appendices ¹²								KRP4AA53
20	Installation box for adaptor PCB								KRP1H98A
21	Remote sensor (for indoor temperature)								BRCS01A-5
22	Wireless LAN connecting adaptor								BRP072C42-1
23	Digital input adaptor ¹²								BRP7A52

Note: ¹A dedicated remote controller for the auto grille panel is included for lowering and raising the suction grille.⁵The volume of fresh air for direct installation type is approximately 1% of the indoor unit airflow.²When installing auto grille panel, body height (ceiling required dimension) is 55 mm higher than standard panel.⁶Please order using the names of both components instead of set name.⁷This option cannot be installed to auto grille panel.⁸Filter chamber is required.⁹Please use in case temperature/humidity inside ceiling may get over 30°C, 80% RH.¹⁰Wiring for wired remote controller should be obtained locally.¹¹The indoor unit is equipped standardly with the interface adaptor for SkyAir series.¹²An option is unnecessary.¹³Installation box for adaptor PCB (KRP1H98A) is necessary.

Round flow type: Combination table of optional parts

For all round flow, 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.

OPTIONS

Indoor unit

CEILING MOUNTED CASSETTE TYPE <Round Flow>



No.	Name of option	Remark	Kit name						
			FCA50CAVMA	FCA60CAVMA	FCA71CAVMA	FCA85CVMA	FCA100CVMA	FCA125CVMA	FCA140CVMA
1	Decoration panel	Standard panel with Sensing	Fresh white			BYCQ125EEF			
		Black				BYCQ125EEK			
	Standard panel	Fresh white				BYCQ125EAF			
		Black				BYCQ125EAK			
2	Sealing material of air discharge outlet ³	Fresh white				BYCQ125EBSF			
		For usage of 3-, 4-way flow				KDBH551C160			
	For usage of 2-way flow					KDBH552C160			
3	Panel spacer					KDB55J160F			
4	Fresh air intake kit	Chamber type ^{4,5}	Without T-duct joint			KDDP55C160 (Components: KDDP55C160-1, KDDP55C160-2) ⁷			
		With T-duct joint				KDDP55C160K (Components: KDDP55C160-1, KDDP55C160K2) ⁷			
	Direct installation type ⁶					KDDP55X160A			
5	High-efficiency filter unit ⁸ (Including filter chamber)	(Colorimetric method 65%)		KAF556D80		KAF556D160			
6	Replacement high-efficiency filter ^{8,9}	(Colorimetric method 90%)		KAF557D80		KAF557D160			
7	Filter chamber	(Colorimetric method 65%)		KAF552D80		KAF552D160			
8	High performance prefilter (MERV 8 filter) ⁸	(Colorimetric method 90%)		KAF553D80		KAF553D160			
9	Replacement long-life filter					KDDFP55C160			
10	Replacement long-life filter (Auto grille panel)					BAF552A160			
11	Ultra long-life filter unit (Including filter chamber) ⁸					KAF5511D160			
12	Replacement ultra long-life filter ^{8,9}					KAF555D160			
13	Branch duct chamber ³		KDJP55C80		KDJP55C160				
14	Insulation kit for high humidity ^{8,10}		KDTP55K80B		KDTP55K160B				
15	Remote controller	Wireless type	Heat pump			BRC7M634F (Fresh white) / BRC7M634K (Black)			
16	Stylish remote controller	Wired type ¹¹				BRC1H63W (White) / BRC1H63K (Black)			
17	Navigation remote controller	Wired type ¹¹ "Nav Ease"				BRC1E63			
18	Central remote controller ¹²					DCS302CA61			
19	Unified ON/OFF controller ¹²					DCS301BA61			
20	Schedule timer ¹²					DST301BA61			
21	intelligent Touch Controller ¹²					DCS601C51			
22	Adaptor for wiring ¹³					BRP11B62			
23	Wiring adaptor for electrical appendices ¹³					KRP4AA53			
24	Installation box for adaptor PCB					KRP1H98A			
25	Remote sensor (for indoor temperature)					BRCS01A-5			
26	Wireless LAN connecting adaptor					BRP072C42-1			
27	Digital input adaptor ¹³					BRP7A52			

Note:
¹A dedicated remote controller for the auto grille panel is included for lowering and raising the suction grille.
²When installing auto grille panel, body height (ceiling required dimension) is 55 mm higher than standard panel.
³Circulation airflow is not available with this option.
⁴When installing a fresh air intake kit (chamber type), two air outlet corners are closed.
⁵It 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.

⁶The volume of fresh air for direct installation type is approximately 1% of the indoor unit airflow.
⁷The chamber type is recommended when more fresh air is necessary.
⁸Please order using the names of both components instead of set name.
⁹This option cannot be installed to auto grille panel.
¹⁰Please use in case temperature/humidity inside ceiling may get over 30°C, 80% RH.
¹¹Wiring for wired remote controller should be obtained locally.
¹²The indoor unit is equipped standardly with the interface adaptor for SkyAir series. An option is unnecessary.
¹³Installation 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

Optional accessory parts		Auto grille panel	Panel spacer ¹	Fresh air intake kit (Chamber type) ^{1,2}	Fresh air intake kit (Direct installation type)	Insulation kit for high humidity	High-efficiency filter unit ²	Ultra long-life filter unit ²
Panel/grille related	Auto grille panel		O	O	O	X	X	X
	Panel spacer ¹	O		O	O	X	O	O
Auxiliary function related	Fresh air intake kit (Chamber type) ^{1,2}	O	O		X	X	O	O
	Fresh air intake kit (Direct installation type)	O	O	X		O	O	O
Filter related	Insulation kit for high humidity	X	X	X	O		X	X
	High-efficiency filter unit ²	X	O	O	O	X		X
3-way flow 2-way flow ⁵								
Optional accessory parts		Auto grille panel	Panel spacer ¹	Fresh air intake kit (Chamber type) ^{1,2}	Fresh air intake kit (Direct installation type)	Insulation kit for high humidity	High-efficiency filter unit ²	Ultra long-life filter unit ²
Panel/grille related	Auto grille panel		△	O	O	X	X	X
	Panel spacer ^{1,3}	△		△	△	X	X	△
Auxiliary function related	Fresh air intake kit (Chamber type) ^{1,2}	O	△		X	X	X	O
	Fresh air intake kit (Direct installation type)	O	△	X		O	X	O
Filter related	Insulation kit for high humidity	X	X	X	O		X	X
	Ultra long-life filter unit ²	X	△	O	O	X	X	
Branch duct connection								
Optional accessory parts		Auto grille panel	Panel spacer ¹	Fresh air intake kit (Chamber type) ^{1,2}	Fresh air intake kit (Direct installation type)	Insulation kit for high humidity	High-efficiency filter unit ²	Ultra long-life filter unit ²
Branch duct chamber ¹	1-way branch / unit 3-way flow	O	O	O	O ⁴	X	X	O
	2-way branch / unit 2-way flow	O	X	O	O ⁴	X	X	O
	1-way branch / unit 2-way flow	O	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.

COMPACT MULTI FLOW CEILING MOUNTED CASSETTE TYPE

No.	Name of option	Remark	Kit name			
			FFA25BVM	FFA35BVM	FFA50BVM	FFA60BVM
1	Grid ceiling panel	White				BYFQ60CAW
2	Sensor kit	White				BRYQ60AAW
3	Sealing material of air discharge outlet ¹					BDBHQ44C60
4	Fresh air intake kit ¹					KDDQ44XA60
5	Replacement long-life filter					KAF441C60
6	Remote controller	Wireless type	Heat pump			BRC7M530W
7	Stylish remote controller	Wired type ²				BRC1H63W (White) / BRC1H63K (Black)
8	Navigation remote controller	Wired type ² "Nav Ease"				BRC1E63
9	Central remote controller					DCS302CA61
10	Unified ON / OFF controller					DCS301BA61
11	Schedule timer					DST301BA61
12	intelligent Touch Controller					DCS601C51
13	Adaptor for wiring ³					BRP11B62
14	Wiring adaptor for electrical appendices ¹³					KRP4AA53
15	Installation box for adaptor PCB ⁴					KRP1BB101
16	Remote sensor (for indoor temperature)					BRCS01A-6
17	Wireless LAN connecting adaptor					BRP072C42-1
18	Digital input adaptor ³					BRP7A51
19	Streamer filter clean unit ⁵					BAPWS55A61

Note:
¹When a Streamer filter clean unit is connected, this option can be used only for 4-way flow, not for 3-way or 2-way flow.

²Wiring for wired remote controller should be obtained locally.

³Installation box for adaptor PCB (KRP1BB101) is necessary.

<p

WALL MOUNTED TYPE

No.	Name of option	Remark	Kit name				
			FTXC50AV1A	FTXC60AV1A	FTXC71AV1A	FTXC85AV1A	FTXC100AV1A
1	Drain-up kit		—	—	FAA71BVMA	FAA85BVMA	FAA100BVMA
2	Remote controller	Wireless type	Heat pump			K-KDU572KVE	
3	Stylish remote controller	Wired type ¹				BRC7EB518	
4	Navigation Remote Controller	Wired type ¹ "Nav Ease"				BRC1H63W (White) / BRC1H63K (Black)	
5	Wiring adaptor for electrical appendices(2) ²					★ KRP4AA51	
6	Installation box for adaptor PCB ²					KRP4B93	
7	Central remote controller ³					DCS302CA61	
8	Unified ON/OFF controller ³					DCS301BA61	
9	Schedule timer ³					DST301BA61	
10	intelligent Touch Controller ³					DCS601C51	
11	Remote sensor (for indoor temperature)					BRCS01A-4	
12	Electrical box with earth terminal (3 blocks)					KJB311AA	
13	Electrical box with earth terminal (2 blocks)					KJB212AA	
14	Wireless LAN connecting adaptor					BRP072C42-1	
15	Digital input adaptor ²					★ BRP7A51	

Note:

¹Wiring for wired remote controller should be obtained locally.²Installation box for adaptor PCB (KRP4B93) is necessary for each adaptor marked ★.³The indoor unit is equipped standardly with the interface adaptor for SkyAir series. An option is unnecessary.

DUCT CONNECTION MIDDLE STATIC PRESSURE TYPE

No.	Name of option	Remark	Kit name				
			FBA50BAVMA	FBA60BAVMA	FBA71BVMA	FBA85BVMA	FBA100BVMA
1	High-efficiency filter ¹		65%	KAF632C80			KAF632C160
			90%	KAF633C80			KAF633C160
2	Filter chamber(for rear suction) ¹			KDDFP63B80			KDDFP63B160
3	Long-life filter ¹			KAF631C80			KAF631C160
4	Service panel	Fresh white		KTBJ25K80F			KTBJ25K160F
5	Air discharge adaptor			KDAP25A71A			KDAP25A140A
6	Shield plate for side plate						KDBD63A160
7	Remote controller	Wireless type	Heat pump				BRC4C65
8	Stylish remote controller	Wired type ²					BRC1H63W (White) / BRC1H63K (Black)
9	Navigation Remote Controller	Wired type ² "Nav Ease"					BRC1E63
10	Adaptor for wiring ³						★ BRP11B62
11	Wiring adaptor for electrical appendices(2) ³						★ KRP4AA51
12	Mounting plate for adaptor PCB ^{3,4,5}						KRP4A98
13	Remote sensor (for indoor temperature)						BRCS01A-4
14	Central remote controller ⁵						DCS302CA61
15	Unified ON/OFF controller ⁶						DCS301BA61
16	Schedule timer ⁶						DST301BA61
17	intelligent Touch Controller ⁶						DCS601C51
18	Wireless LAN connecting adaptor						BRP072C42-1
19	Digital input adaptor ³						★ BRP7A51



Note:

¹If installing high efficiency filter and long-life filter to the unit, filter chamber is required.²Wiring for wired remote controller should be obtained locally.³Mounting plate is necessary for each adaptor marked ★.⁴Up to 2 adaptors can be fixed for each mounting plate.⁵Only one mounting plate can be installed for each indoor unit.⁶The indoor unit is equipped standardly with the interface adaptor for SkyAir series. An option is unnecessary.

DUCT CONNECTION LOW STATIC PRESSURE TYPE (Bulkhead duct)

No.	Name of option	Remark	Kit name				
			FDYBA25AV1	FDYBA35AV1	FDYBA50AV1	FDYBA60AV1	FDYBA71AV1
1	3D auto swing discharge grille		BDG20A09A1		BDG20A15A1		BDG20A20A1
2	Auto clean air filter unit		BAE20A62		BAE20A82		BAE20A102
3	Remote controller	Wireless type	Heat pump		BRC4C65		
4	Stylish remote controller	Wired type ¹			BRC1H63W (White) / BRC1H63K (Black)		
5	Navigation Remote Controller	Wired type ¹ "Nav Ease"			BRC1E63		
6	Adaptor for wiring ²				★ BRP11B62		
7	Wiring adaptor for electrical appendices(2) ²				★ KRP4AA51		
8	Mounting plate for adaptor PCB ^{2,3,4,5}				BRP9A90		
9	Remote sensor (for indoor temperature)				BRCS01A-6		
10	Central remote controller ⁶				DCS302CA61		
11	Unified ON/OFF controller ⁶				DCS301BA61		
12	Schedule timer ⁶				DST301BA61		
13	intelligent Touch Controller ⁶				DCS601C51		
14	Wireless LAN connecting adaptor				BRP072C42-1		
15	Digital input adaptor ²				★ BRP7A51		

¹Wiring for wired remote controller should be obtained locally.²Mounting plate is necessary for each adaptor marked ★.³Only one adaptor can be fixed for each mounting plate.⁴Only one mounting plate can be installed for each indoor unit.⁵Adaptor can also be installed in vacant space inside electrical box without mounting plate.

So up to 2 adaptors can be installed for each unit, one in the mounting plate, another in the electrical box.

Please refer to the following table.

Optional accessory compatibility (2 max per unit)	6	7	15
	BRP11B62	KRP4AA51	BRP7A51
6	BRP11B62	—	●
14	BRP072C42-1	●	×
15	BRP7A51	●	—

● Can be installed on same unit

× Cannot be installed together

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

MEMO

Outdoor unit

Kit name			
   			
No.	Name of option	Premium Inverter series	1 Phase
		RZAV50/60C2V1	—
		—	RXC50/60A2V1A
No.	Name of option	Inverter series	1 Phase
		RZAC71C2V1	RZAC50/60G2V1
1	Central drain plug	KKP014A4	
2	Air direction adjustment grille	KPW937F4	
		KKP937A4	
		KPW5G112	

Kit name				
    				
No.	Name of option	Premium Inverter series	1 Phase	
		RZAV71/85C2V1	—	RZAV100/125/140F2V1
		—	RXC71/85A2V1A	—
No.	Name of option	3 Phase	RZAV71/85C2Y1	RZAV100/125/140F2Y1
		1 Phase	RZAC85/100/125C2V1	RZAC140F2V1
		3 Phase	RZAC85/100/125C2Y1	RZAC140F2Y1
1	Central drain plug	KKPJ5H280		BKP082A41
2	Fixture for preventing overturning	KKTP5B112		—
3	Wire fixture for preventing overturning	K-KYzp15C		
4	Air direction adjustment grille	KPW5G112		KPW082A41
		KPW5G112		KPW5G112



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.