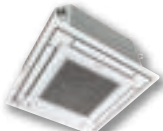


SkyAir

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.



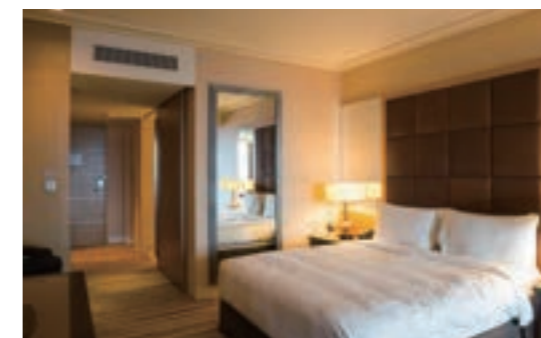
Ceiling Suspended Type

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.

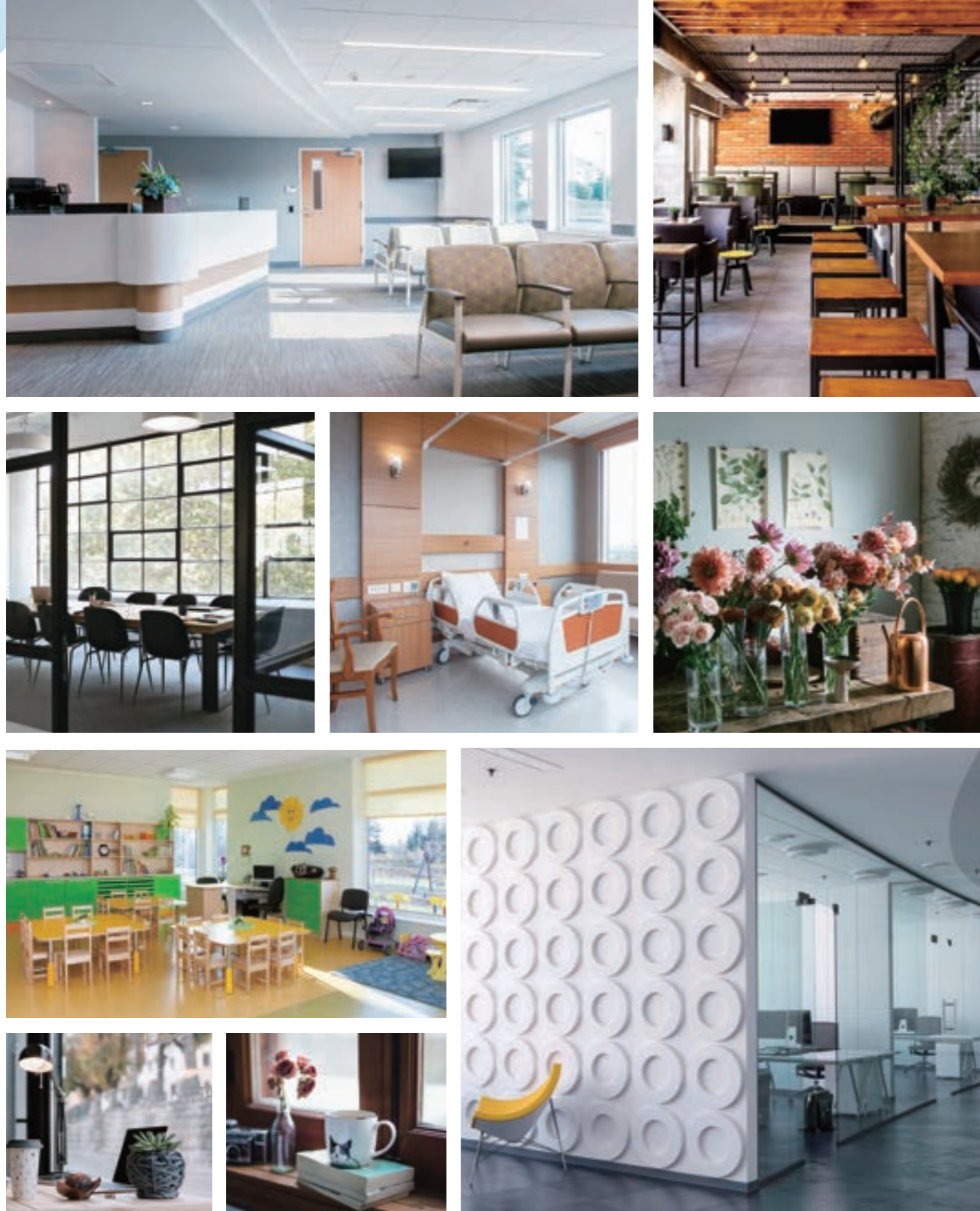


Duct Connection Middle Static Pressure Type

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.



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

★ <Round Flow> with Streamer
 ● <Round Flow>

NEW FCTA-A FCA-C(A)
 P.17

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							★	★	★	

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

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					●	●	●		

COMPACT MULTI FLOW CEILING MOUNTED CASSETTE TYPE

NEW FFA-B
 P.31

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

DUCT CONNECTION LOW STATIC PRESSURE TYPE (Bulkhead duct)

FDYBA-A
 P.37

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

CEILING SUSPENDED TYPE

NEW FHA-C(A)
 P.33

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							●	●	●	

DUCT CONNECTION MIDDLE STATIC PRESSURE TYPE

FBA-B(A)
 P.39

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							●	●	●	

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

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

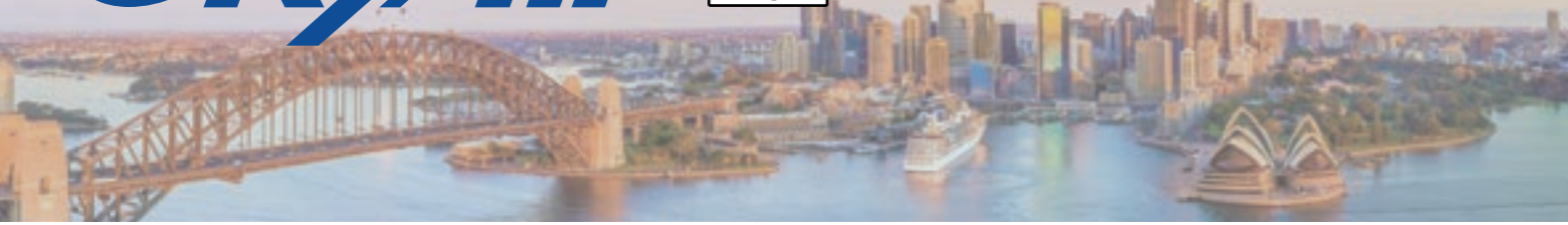
RXC100A2V1A

RZAV100C2Y1

New Inverters launched

SkyAir

R-32

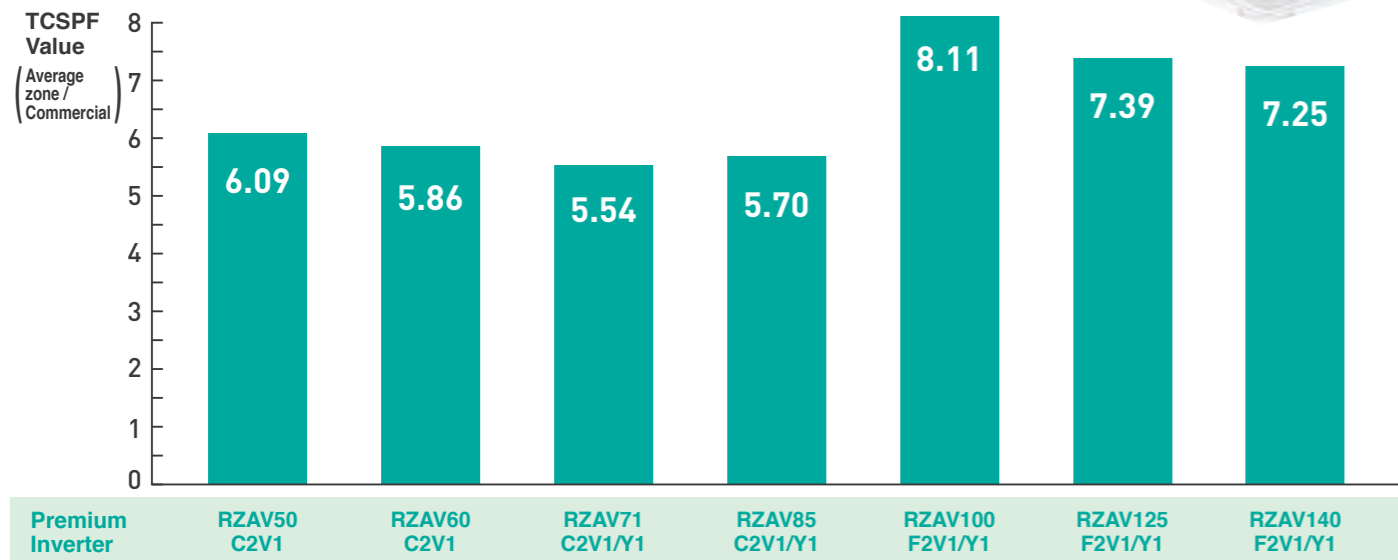


Energy Saving

◆ 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>



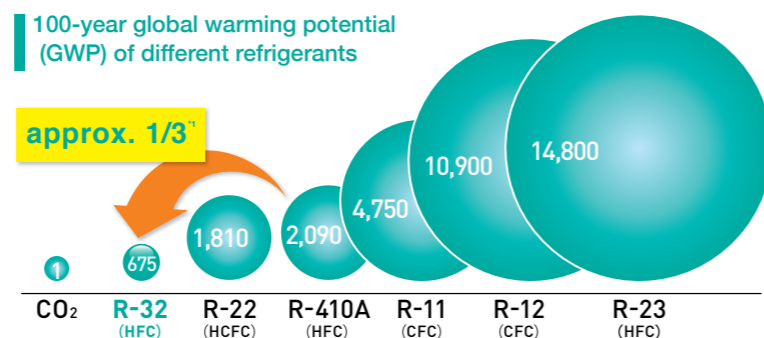
R-32

◆ 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.

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

approx. 1/3*



*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)

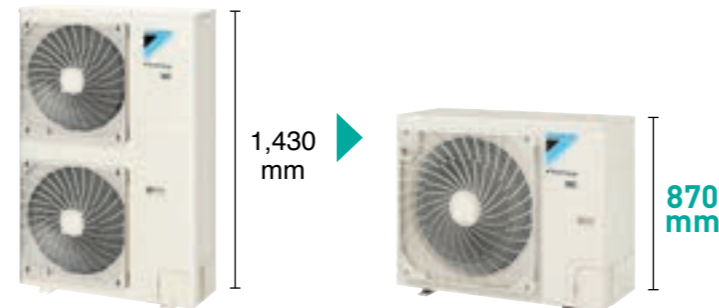
Coated circuit boards prevent problems caused by humidity and airborne dust. It also protects against salt contained in sea breezes. Both sides of the PCB in outdoor units are coated.



Height Compact

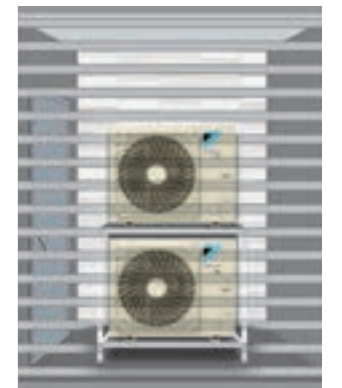
◆ Compact size and lightweight

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.



◆ Double-stacking installation possible

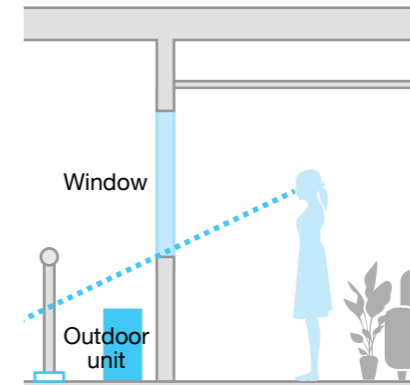
The low height casing design allows for compact double-stacking of outdoor units to maximize utilization of installation space.



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

● View from outside

● View from inside



Reuse of Existing Piping

Benefit 1

Simplified installation reduces replacement time and cost

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

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



These problems are **solved by Daikin!**

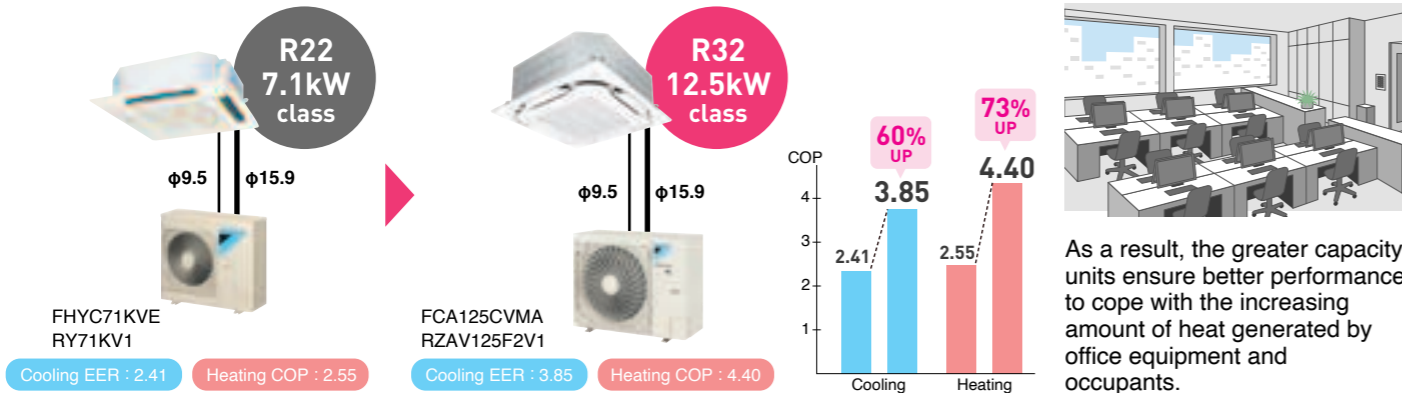
Where feasible, we reduce work costs and time by reusing existing pipes*.

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

Benefit 2

You can increase cooling capacity and achieve higher energy efficiency

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



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

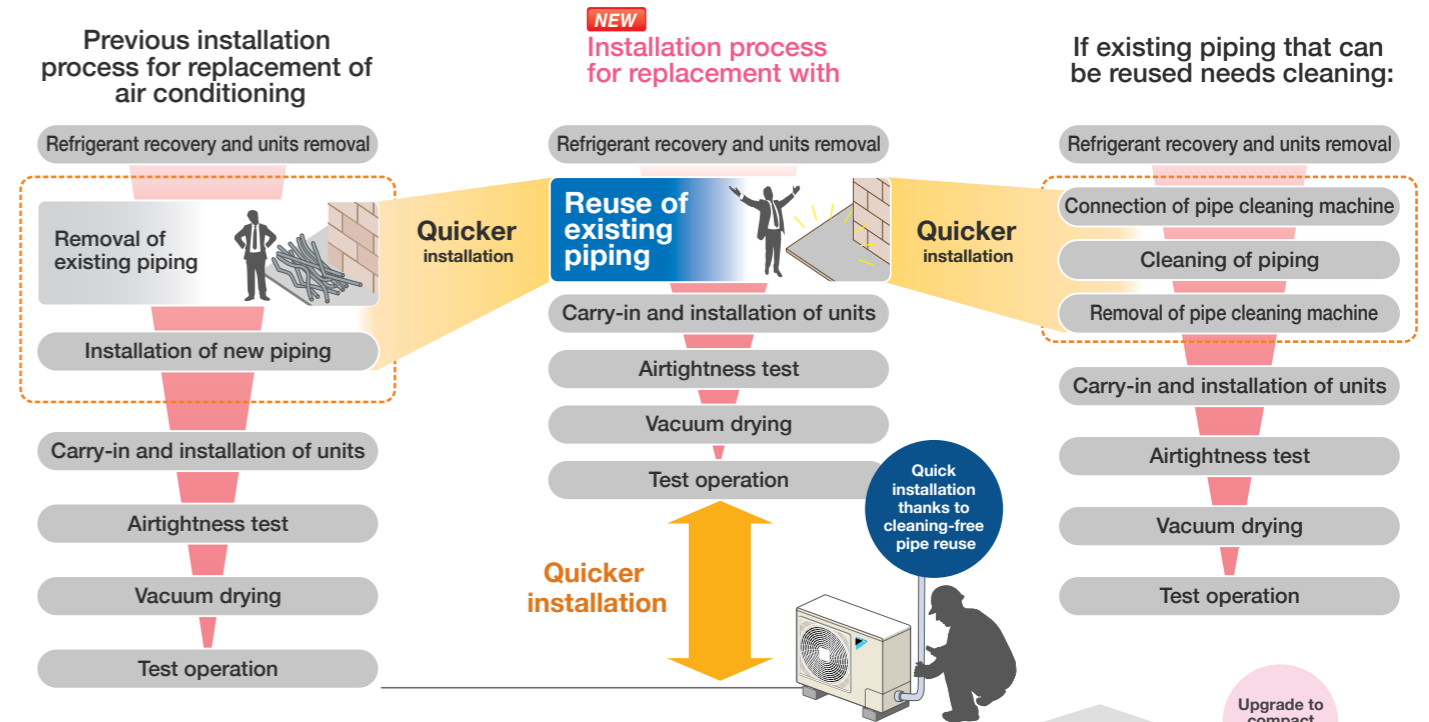
Compressor durability is improved by installing a filter or accumulator to collect solid foreign substances.

*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)

RZAV & RZAC series now both feature R22 retrofit technology.

Simplified Installation

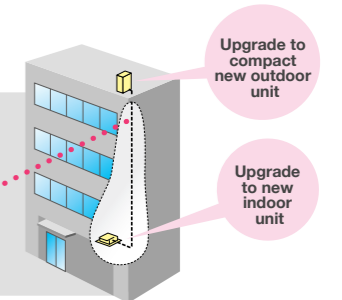
Enables simplified air conditioner replacement with minimal impact on operations.



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	○	○	△	△	×	×	×	Max. 30m	4.17MPa
	Max. piping length	50m	50m	25m	25m	—	—	—		
	Chargeless piping length	30m	30m	15m	15m	—	—	—		
RZAV71/85C RXC71-100A	9.5 / 15.9	■	▲	■	○	○	△	△	Max. 30m	4.17MPa
	Max. piping length	10m*	10m*	75m	75m	75m	35m	35m		
	Chargeless piping length	10m	10m	30m	30m	30m	15m	15m		
RZAV 100-140F	9.5 / 15.9	■	▲	■	○	○	△	△	Max. 30m	4.17MPa
	Max. piping length	10m	10m	85m	85m	85m	35m	35m		
	Chargeless piping length	10m	10m	40m	40m	40m	15m	15m		
RZAC 71-125C 140F	9.5 / 15.9	×	×	×	○	×	×	×	Max. 30m	4.17MPa
	Max. piping length	×	×	×	50m	×	×	×		
	Chargeless piping length	×	×	×	30m	×	×	×		

*The allowable minimum piping length is 5 m.

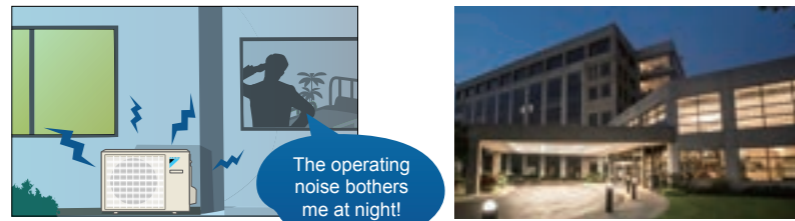
- Refer to the installation manual for details other than those mentioned in the left table such as additional refrigerant charge amount.
- Clean the existing piping if its length exceeds 30m.
- Clean the existing piping if existing piping length exceeds limit of chargeless piping length to perform pump-down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

Quiet Operation

◆ Night quiet operation mode

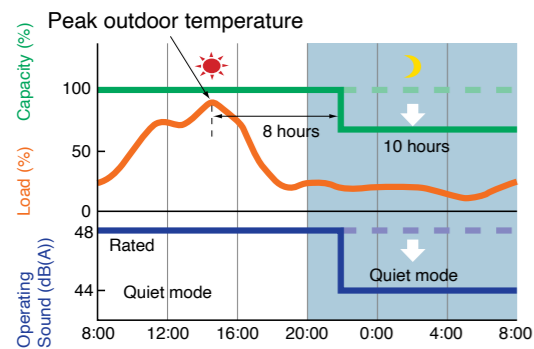
Consideration is given for people living nearby. Outdoor unit operating sound can be reduced.



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
Operating sound about 4 dB quieter

★ Reducing sound will reduce capacity slightly.

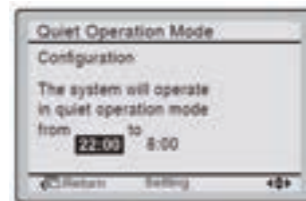
Premium Inverter series	Model	Sound pressure level ¹ (dB(A))	
		Rated ²	Night Quiet Mode
Premium Inverter series	RZAV5060C2V1, 71C2V1/C2Y1, RXG506071A2V1A	48	44
	RZAV85C2V1/C2Y1, RXC85A2V1A	52	48
	RZAV100C2Y1, RXC100A2V1A	51	47
Inverter series	RZAV100F2V1/F2Y1	49	45
	RZAV125F2V1/F2Y1	50	46
	RZAV140F2V1/F2Y1	52	48
	RZAC71C2V1	48	44
Inverter series	RZAC85C2V1/C2Y1	51	47
	RZAC100C2V1/C2Y1	52	48
	RZAC125C2V1/C2Y1	53	49
	RZAC140F2V1/F2Y1	53	49

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

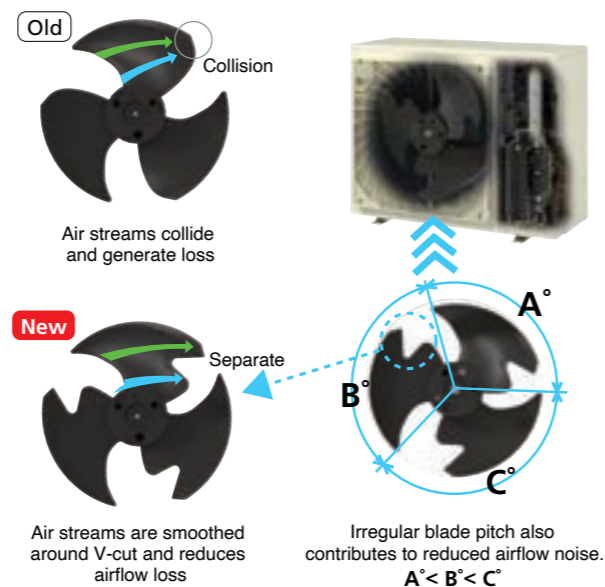
Operation sound of new outdoor unit from 10.0kW to 14.0kW class for RZAV series has reduced 5dB(A) at a maximum compared to current model.

Capacity Class	Mode	RZAV-C		RZAV-F	
		Old	New	Old	New
100	Cooling	51	49	51	49
	Heating	53	50	53	50
125	Cooling	52	50	52	50
	Heating	54	51	54	51
140	Cooling	56	52	56	52
	Heating	58	53	58	53

5dB(A) Down!
at a maximum

◆ V-cut & irregular pitch propeller fan

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



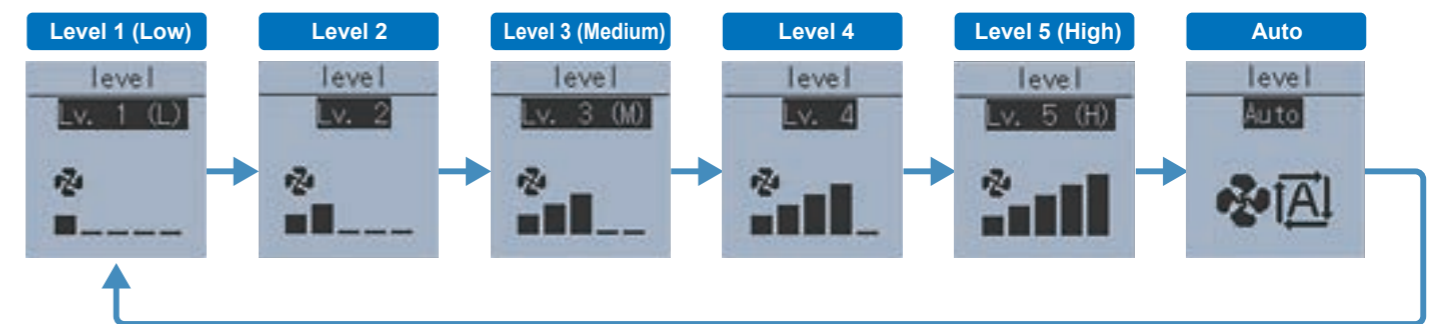
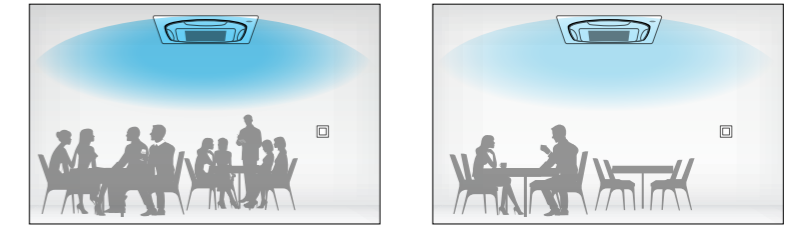
Smart Airflow Control

◆ 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

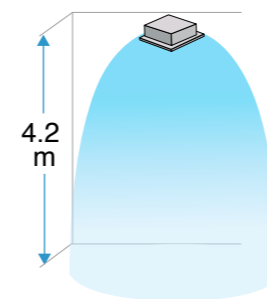
◆ Comfort ensured by 'Auto' airflow rate that matches load level

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



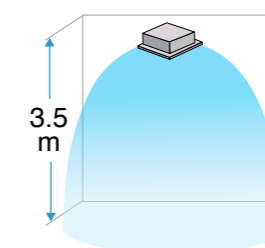
◆ Also convenient for high ceilings and spaces with long throw distances

Cassette type <Round Flow>:
maximum 4.2 m*



See page 27

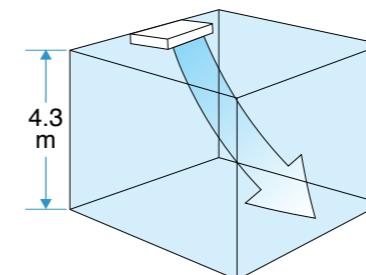
Compact multi flow ceiling mounted cassette type:
maximum 3.5 m



See page 32

*Maximum 4.2 m for FCTA/FCA85, 100, 125, 140
 Maximum 3.5 m for FCTA/FCA50, 60, 71

Ceiling suspended type:
maximum 4.3 m*



See page 34

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

*Field setting with remote controller



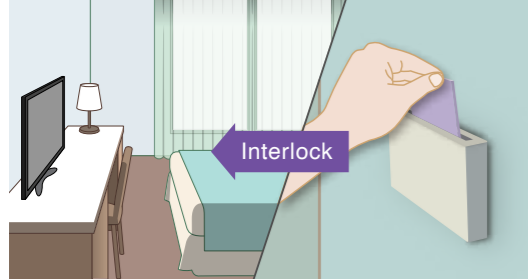
Design Flexibility

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

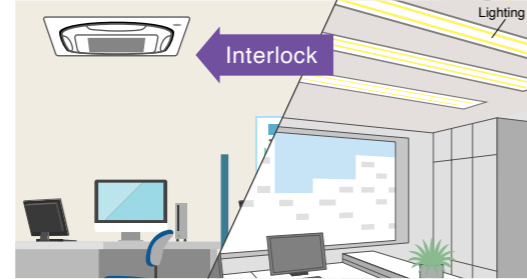
As an energy saving feature, the air conditioner can be interlocked with the key card system. Using a 3rd-party building management system, air conditioning and lighting can be interlocked.

*Field setting with remote controller

Hotel key card interlock



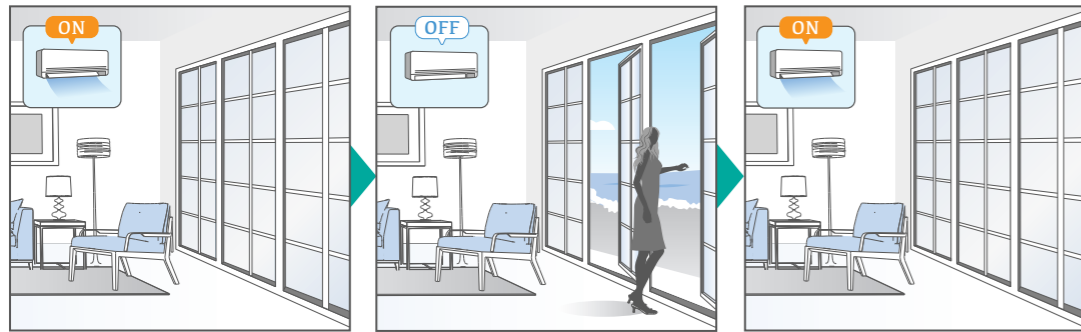
Lighting interlock



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

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

Window contact interlock



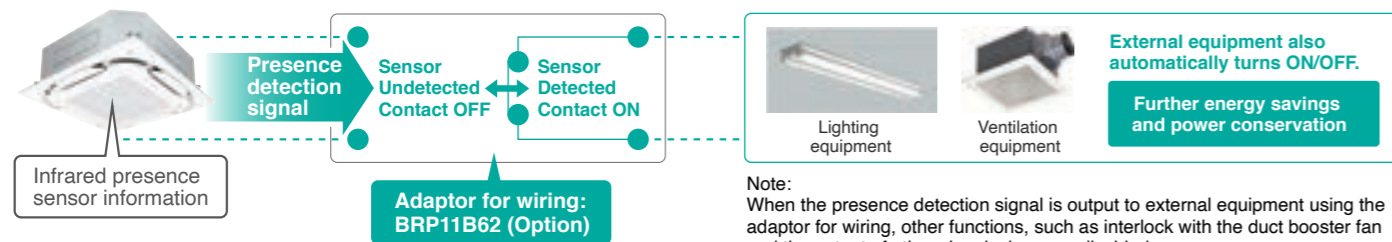
External equipment interlock (FCTA and FCA series only)

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

*Optional adaptor for wiring: BRP11B62 is necessary.

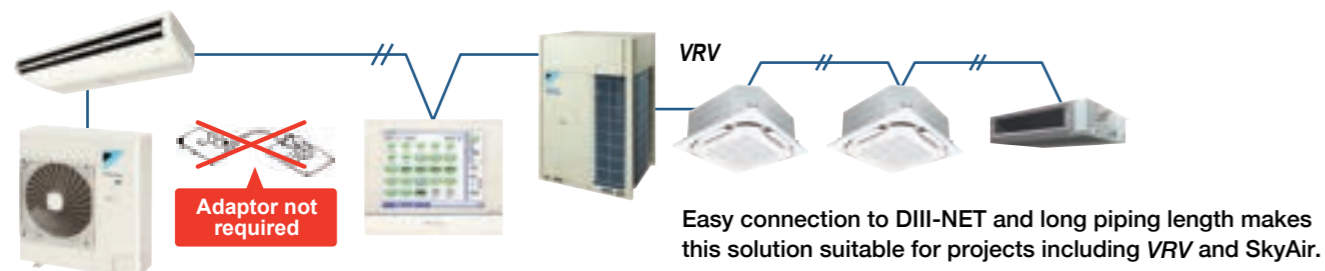
Human presence is detected by the built-in infrared presence sensor in the sensing panel, and the presence detection signal can be output and interlocked with external equipment such as ventilation and lighting equipment.

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



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

Indoor units comply with DIII-Net standards



Convenient Functions

Navigation remote controller BRC1E63 includes various convenient functions

Automatic return to temperature preset by owner.

Owner can preset upper and lower temperatures.

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.



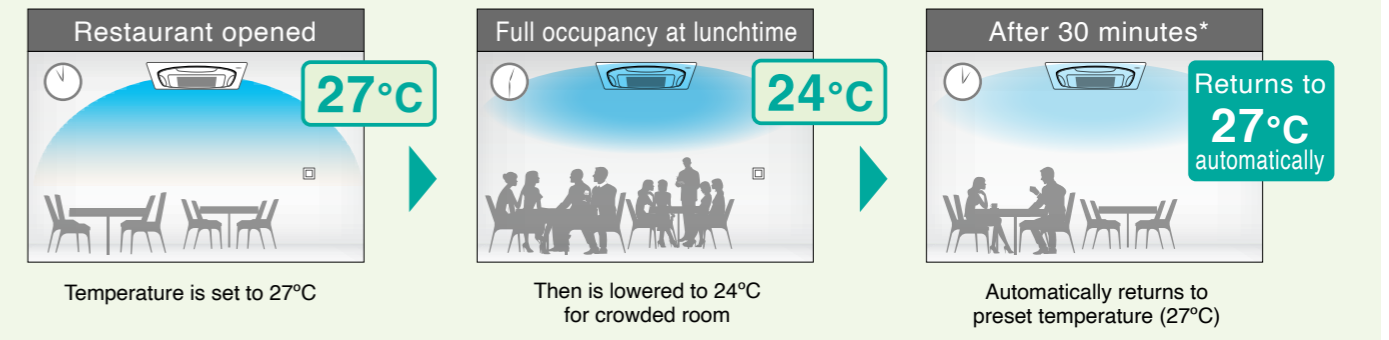
Setpoint range set

- 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

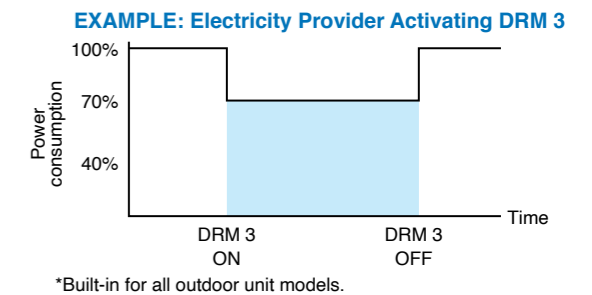


Demand control function

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

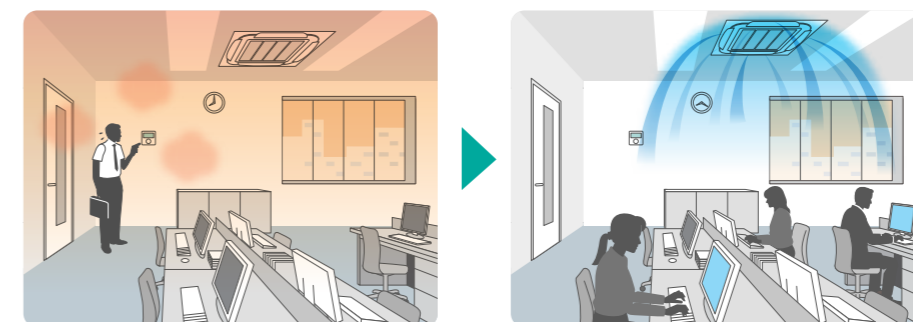
- DRM 1: Compressor Off
- DRM 2: 40% Power Consumption Limit
- DRM 3: 70% Power Consumption Limit



*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.

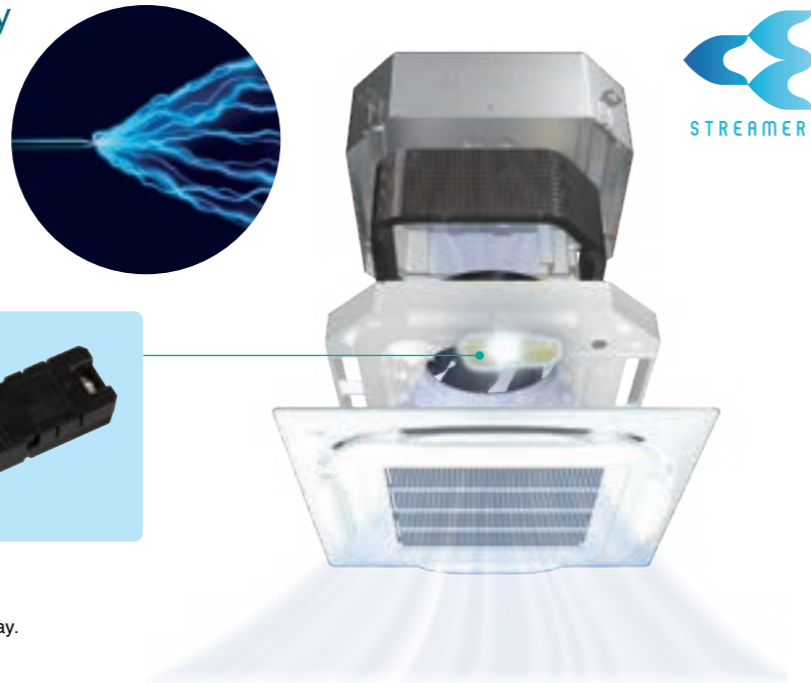


BRC1E63 wired remote controller is used for 'Quick start'.

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.

NEW



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

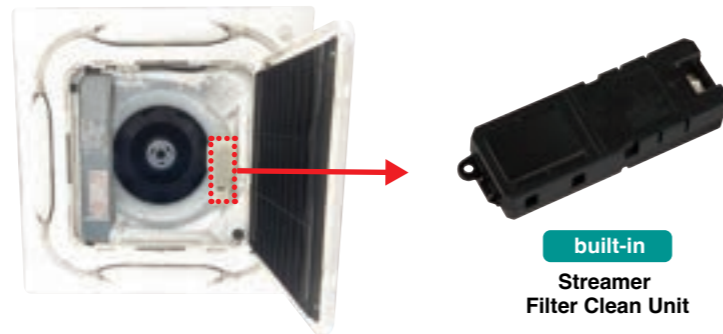
Streamer filter clean unit is built-in inside the indoor unit



NEW

FCTA-A series

Ceiling Mounted Cassette Type <Round Flow> with Streamer



built-in

Streamer Filter Clean Unit

Streamer filter clean unit is option unit



NEW

FFA-B series

Compact Multi Flow Ceiling Mounted Cassette Type



NEW

FHA-C series

Ceiling Suspended Type



option

Streamer Filter Clean Unit BAPWS55A61

See page 66

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



* Field setting is required.(default: OFF)

Streamer Technology

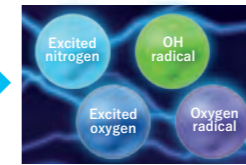
Equipped with decomposition technology, Streamer is a type of plasma discharge that eliminates allergens such as pollen, mould, and mites, as well as, deodorises anti-bacterial dust filters so you can breathe with ease.



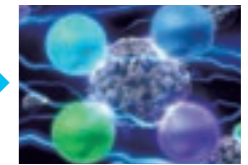
Mechanism of decomposition by Streamer



Streamer emits high-speed electrons.



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



The decomposing elements provide decomposition power.

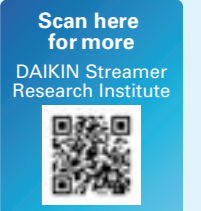
99.93% Inactivation of Omicron variant in 2 hours

Experimental Results

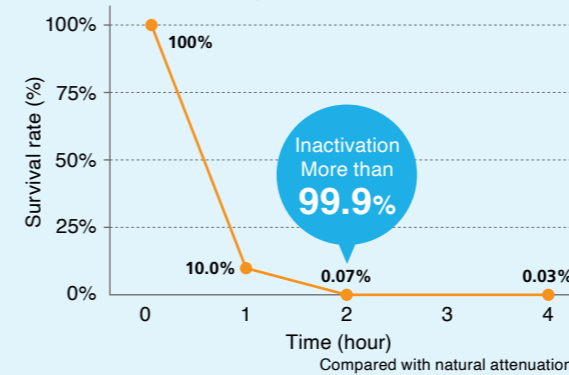
Irradiation with Streamer discharge for two hours inactivated 99.93%, and for four hours inactivated 99.97% of the Omicron variant of Coronavirus (SARS-CoV-2), when compared to without Streamer discharge.

Test Method

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



Inactivation effect against Omicron variant



Test Organization

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

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

Demonstration of mould

Picture of mould



Test Method

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

Test Organization

Demonstration test was performed at Wakayama Medical University.

Why Daikin Streamer?

Recognized as clean technology by public bodies

Winner of the 2005 Progress Award, Institute of Electrostatics Japan

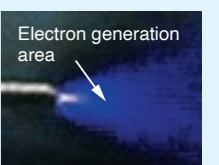
Awarded for the development of a domestic air purifier which uses DC Streamer discharge.

105 Patents Acquired

Patents acquired relating to Streamer technology

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



ROUND FLOW



NEW FCTA50/60/71/85/100/
125/140AVMA (with Streamer)
FCA50/60/71CAVMA
FCA85/100/125/140CVMA

*Shown above is FCTA/FCA50-71.

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.



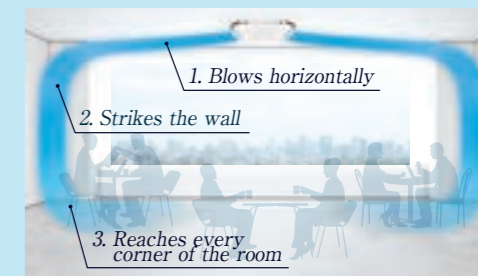
P.19-22

*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

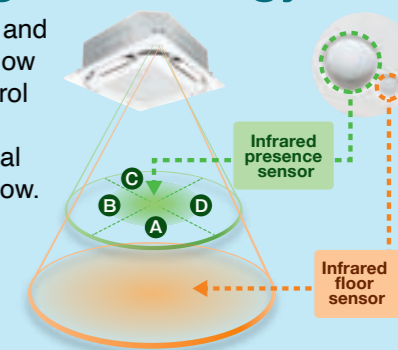
Airflow direction can be individually adjusted for each air discharge outlet to deliver optimal air distribution.



P.24-26

Sensing Technology

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



Option Accessory required for indoor unit.

Wired Remote Controller

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

• Navigation Remote Controller (Wired) ¹



NEW BRC1H63W (White)

BRC1H63K (Black)

"Nav Ease" BRC1E63

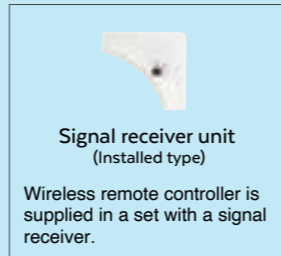
Note: ¹Remote controller cable is not included and must be obtained locally. ²FCTA series can be connected only to BRC1H63W(K).

Wireless Remote Controller

• Wireless Remote Controller ³



Heat pump
BRC7M634F (Fresh white)
BRC7M634K (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



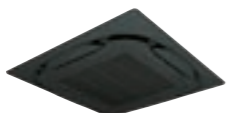
Standard panel with Sensing (Fresh white)



Standard panel (Fresh white)



Standard panel with Sensing (Black)



Standard panel (Black)



Auto grille panel (Fresh white)

360° Airflow

With uniform temperature distribution



Greater comfort

Airflow distribution creates uniform comfort throughout the space.

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

Selectable Airflow Pattern

*FCA series only.

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

Typical flow patterns

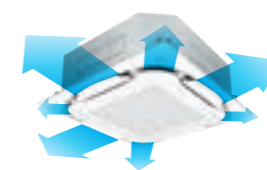
There are a total of 18 flow patterns.

All-round flow



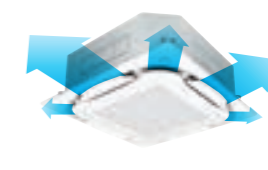
(E.g., installed in middle of ceiling)
4-way flow also possible.

3-way flow



(E.g., installed near a wall)

L-shaped 2-way flow



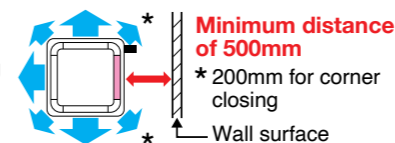
(E.g., installed in a corner)

Opposite 2-way flow



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

Required distance to wall surface for closing air discharge outlet



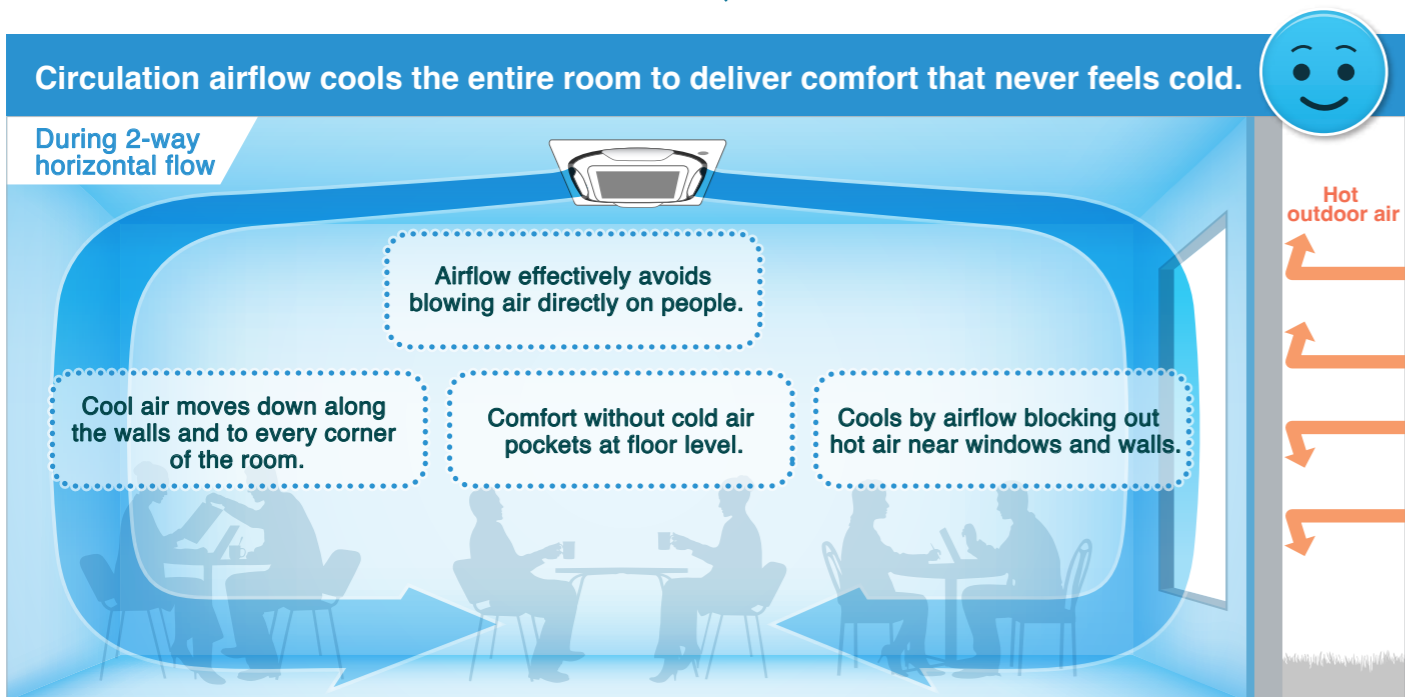
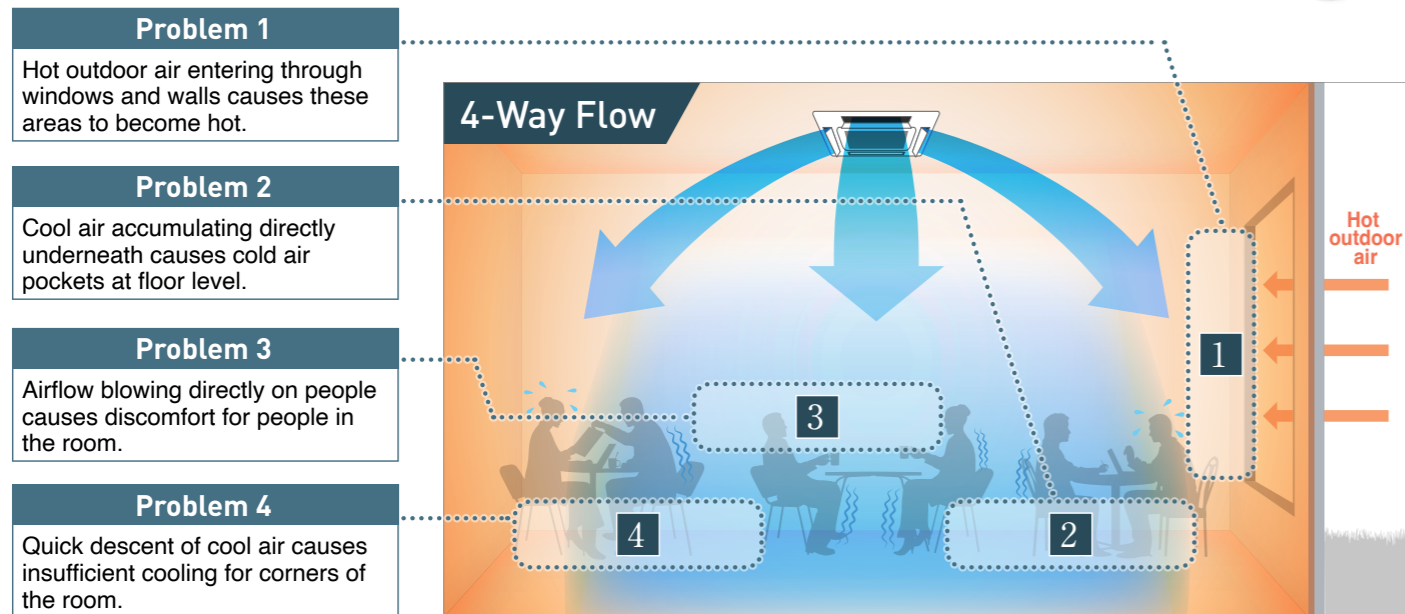
Note:
- Whatever the discharge direction, the same type of panel is used. If installing for other than all-round flow, an air discharge outlet sealing material (option) must be used to close each unused outlet.
- Operation sound increases when using 2-way or 3-way flow.
- Designer panel cannot operate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



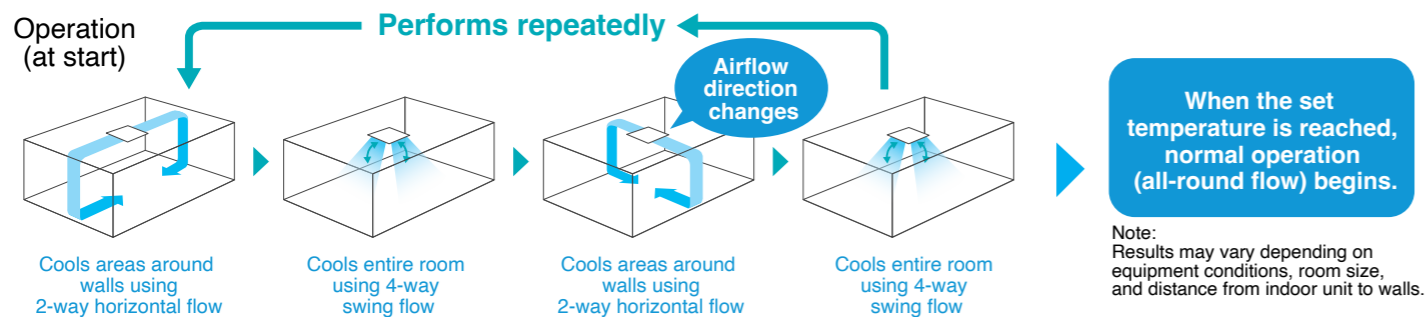
Circulation Airflow Evenly Distributes Cool and Warm Air *1

Cooling

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



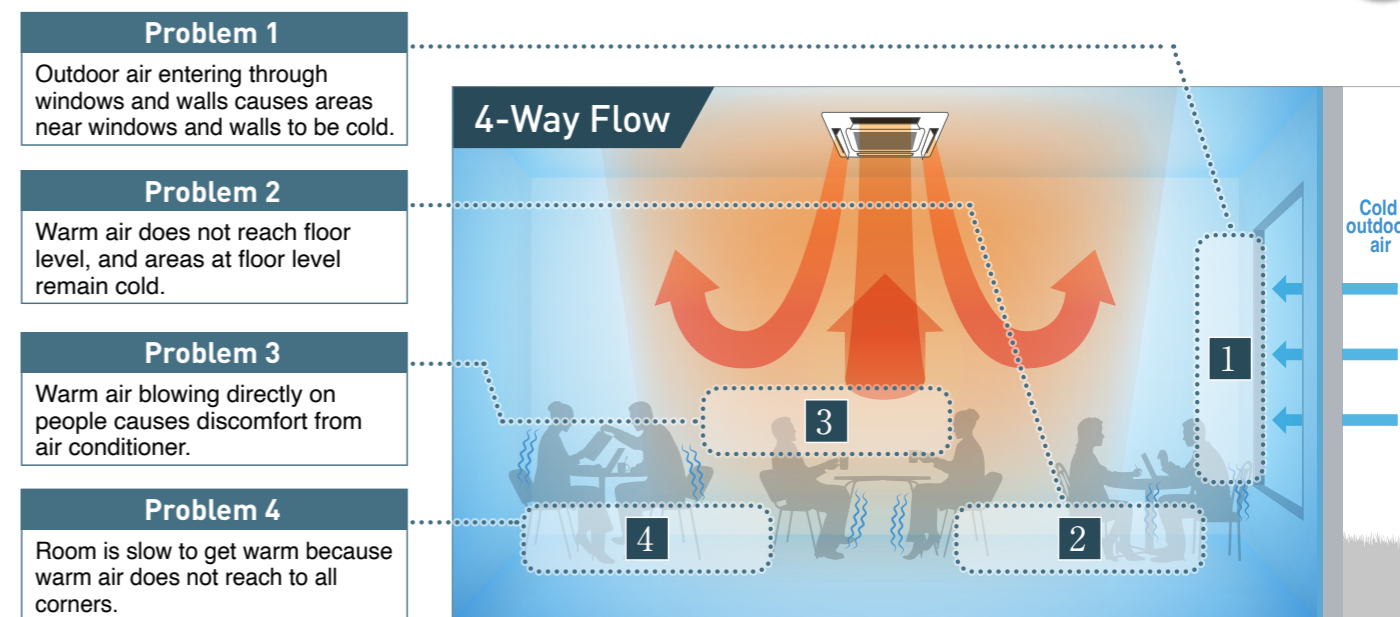
Configurations of Circulation Airflow (Cooling)



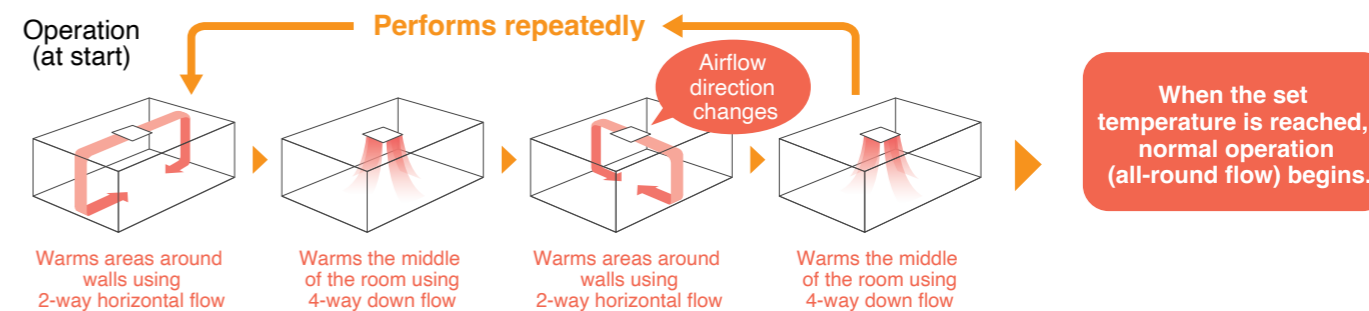
*1. Applicable when wired remote controller BRC1E63 is used.

Heating

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



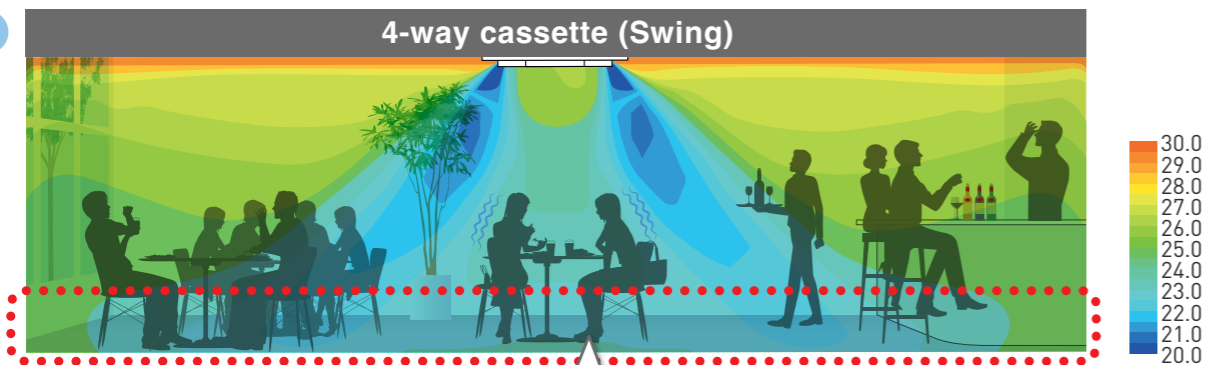
Configurations of Circulation Airflow (Heating)



Circulation Airflow Evenly Distributes Cool and Warm Air *1

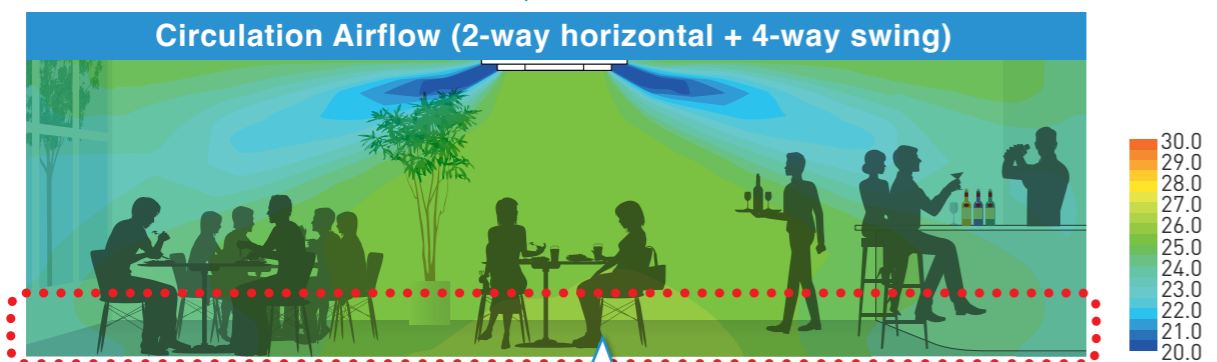
Comfort to the Entire Room with Even Temperatures and No Cold Air Pockets at Floor Level

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



Full comfort is provided with no cold feet.

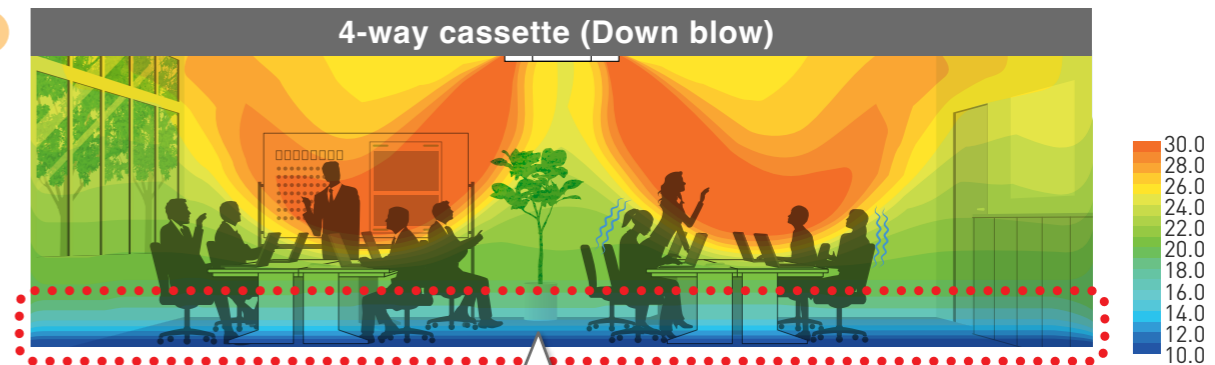
Approx. 5% energy savings *2 by reducing uneven temperatures

*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)

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

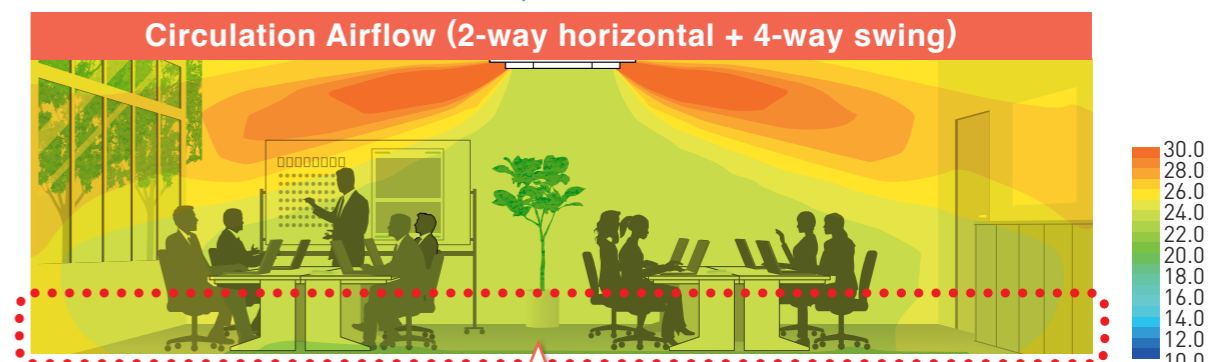
Comfort to the Entire Room with Even Temperatures and Warmth Reaches Feet

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



Areas around walls and feet are warm.

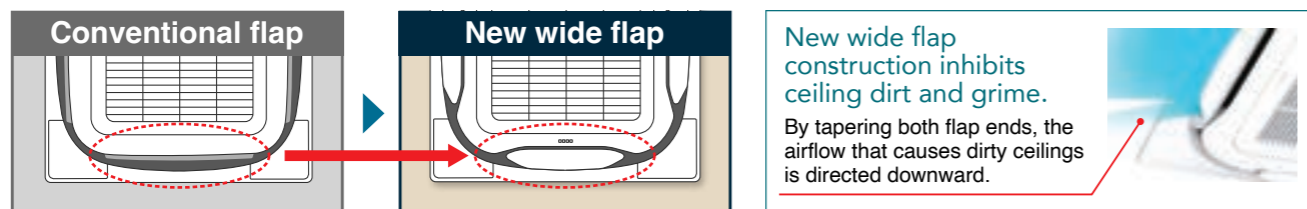
Approx. 15% energy savings *3 by reducing uneven temperatures

*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

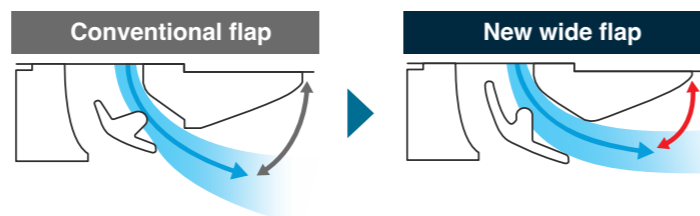
1 Use of new wide flaps (Straight)

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



2 Optimizing airflow angle (Horizontally)

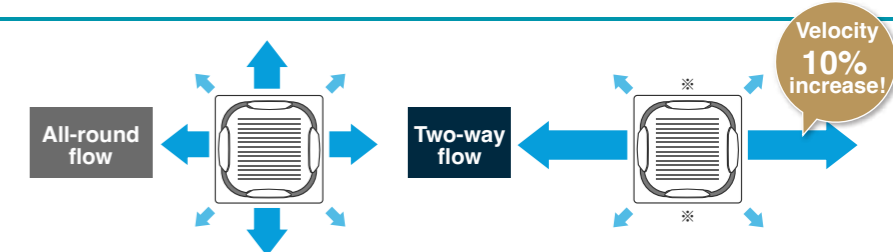
The airflow angle was made more horizontal.



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.

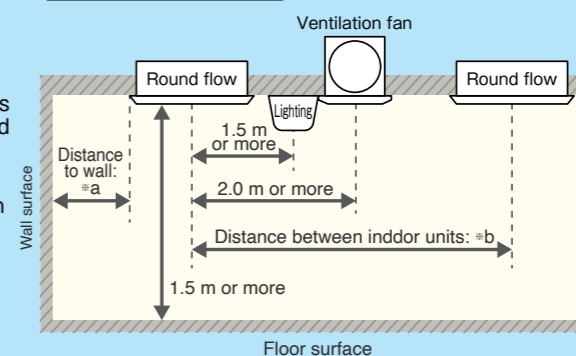


Things to remember when using circulation airflow

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].)
- 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



		FCTA/FCA 50-71	FCTA/FCA 85-140
Circulation airflow	Active	=a 1.5 - 5m =b 5m or more	1.5 - 7m 7m or more
	Not active	=a 1.5m or more =b 4m or more	



Individual Airflow Direction Control *1

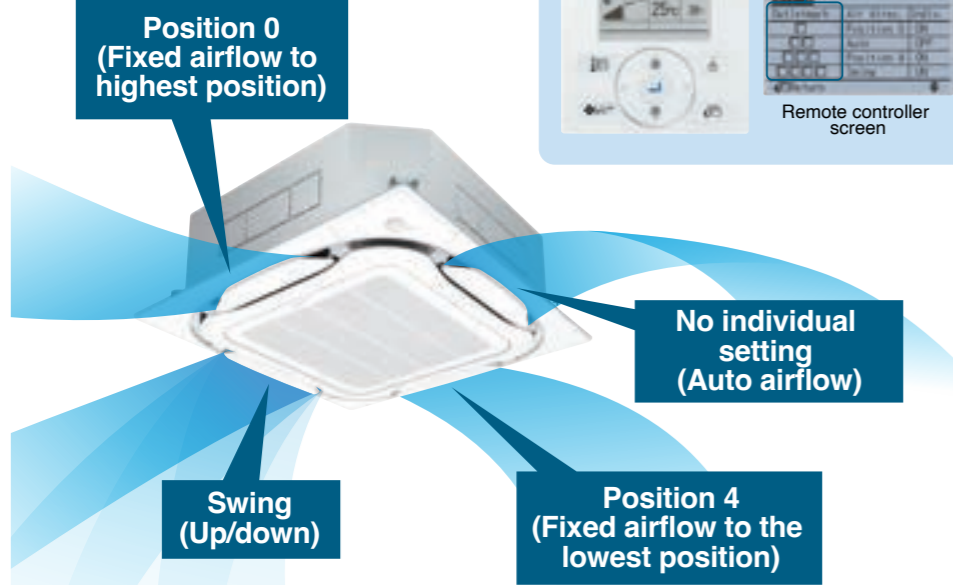
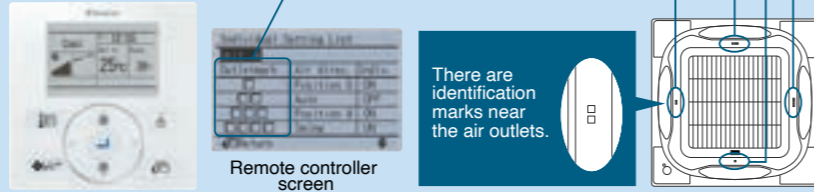
*1. Applicable when wired remote controller BRC1E63 or BRC1H63W(K) is used.

Comfortable Air Conditioning for All Room Layouts and Conditions

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

Easy setting is possible with a wired remote controller.

BRC1E63

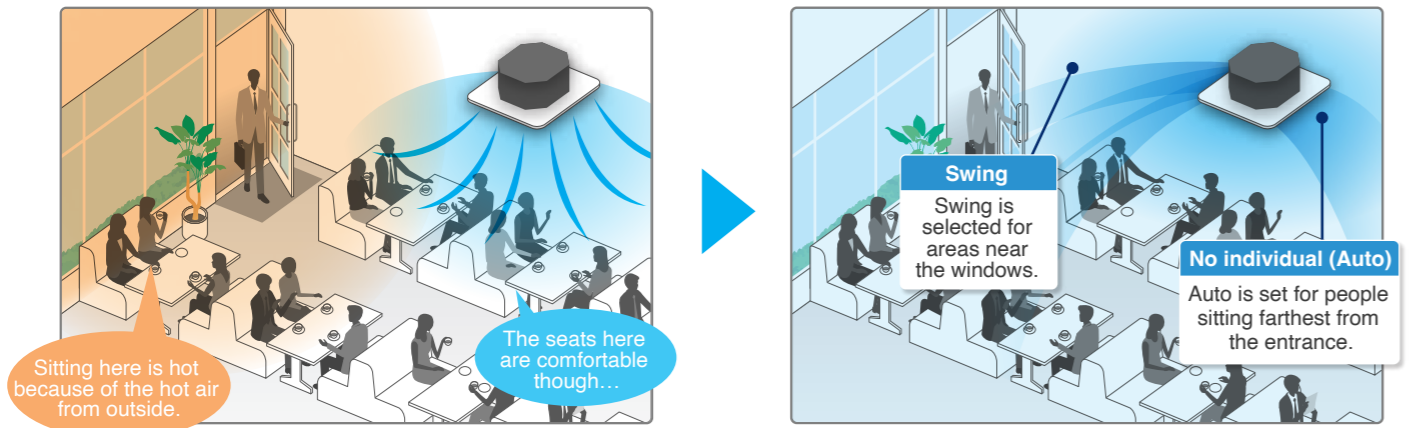


- Individual airflow settings**
- No individual setting (Auto airflow)
 - Position 0 (Highest point)
 - Position 1
 - Position 2
 - Position 3
 - Position 4 (Lowest point)
 - Swing

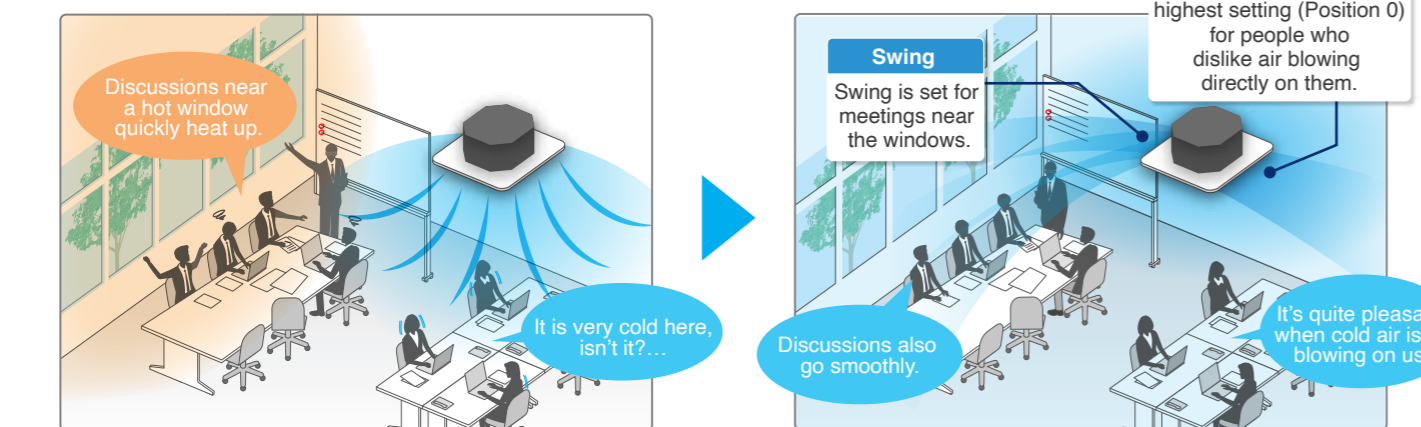
Individual settings are possible as stated above.

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

For shops and restaurant



For offices

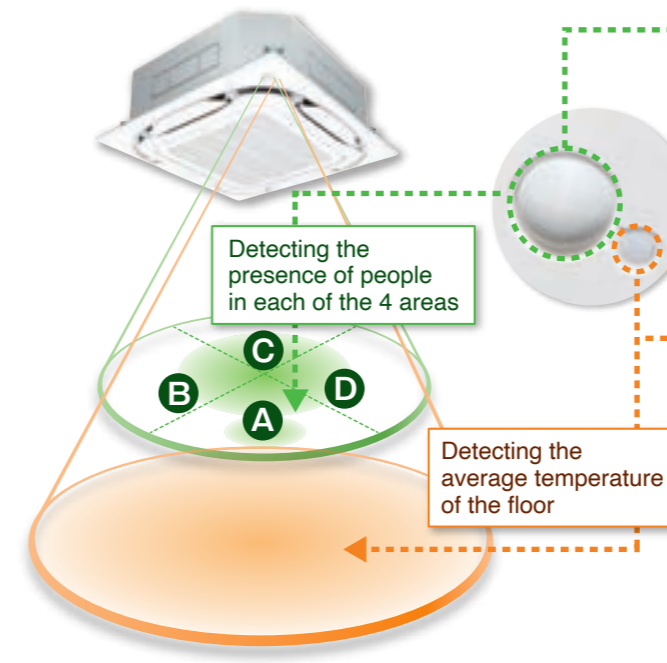


Daikin Sensing Technology *1, 2

*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

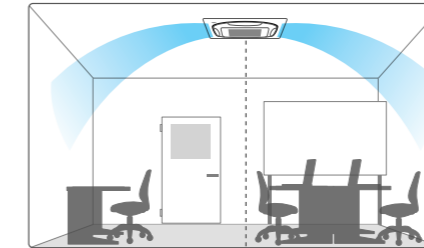
*4. The infrared floor sensor detects at the floor surface.

Auto Airflow Functions*5

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

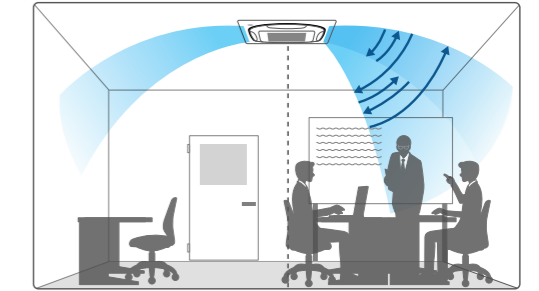
◆ Direct Airflow*6 (default: OFF) **Cooling** **Dry** *6. Applicable when BRC1E63 is used.

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

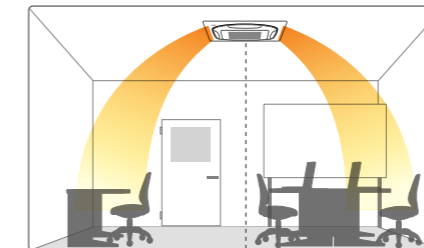


Optimal air direction by "Auto" **Swing (narrow)**

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

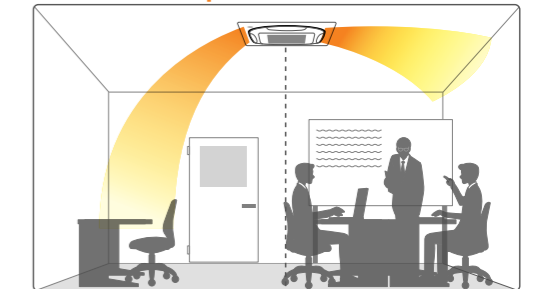
◆ Draft prevention*1 (default: OFF) **Heating**

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



Optimal air direction by "Auto" **Blown horizontally**

- When presence is detected, drafts are prevented by making the flap horizontal.

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

Daikin Sensing Technology *1

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

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

Without sensing function

30°C near ceiling

Room temperature is detected as 30°C.

20°C near floor

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

With sensing function

30°C near ceiling

Room temperature is calculated as 27°C in the area which is in the vicinity of the person.

24°C near floor

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

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

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

◆ Feet are kept warm and comfortable while reducing uncomfortable drafts. Heating

Without sensing function

When air is blown horizontally...

Drafts are minimal, but feet get cold.

17°C near floor

Feet get cold, because warm air collects near the ceiling. Area near floor doesn't reach set temperature and feet feel cold.

For this reason, we end up raising the temperature setting.

With sensing function

20°C near floor

The floor temperature, which is lower, is detected and warm air is blown downward where there is no human presence.

In order to reduce drafts, air is blown horizontally where a person is located.*3

Comfortable because draft is reduced and area around feet is warm.

Energy savings The tendency of people to raise the temperature too much is prevented, because you are warmed up from the feet.

Without sensing function

When air is blown downward...

Feet are warm, but draft is strong.

20°C near floor

Uncomfortable draft occurs, because air is blown downward.

To avoid draft, air direction is changed to horizontal and feet get cold.

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

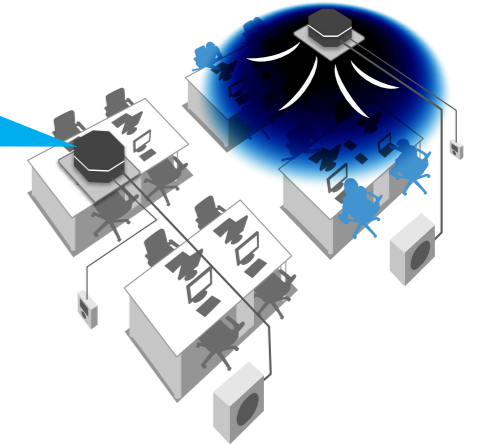
*4. Applicable when BRC1E63 or BRC1H63W(K) is used.
 *5. These functions are not available when using the group control system.
 *6. User can set these functions with remote controller.

◆ Sensing sensor low mode (default: OFF)

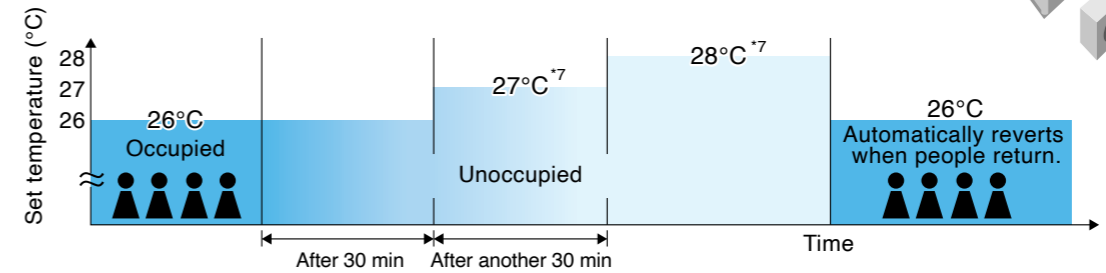
When there are no people in a room, the set temperature is shifted automatically.

- 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.

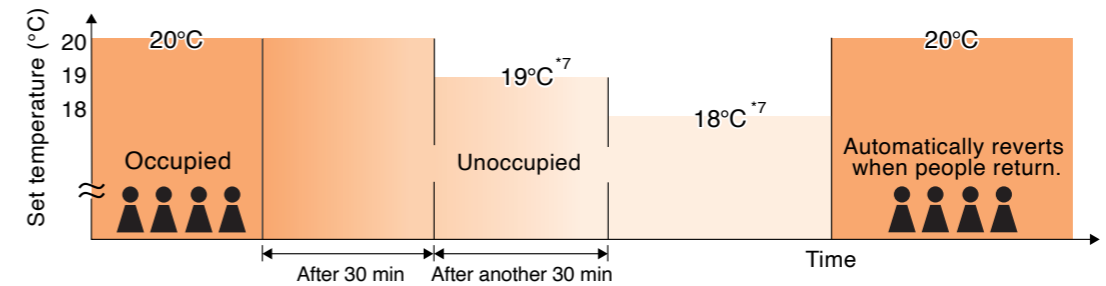


Example • Cooling set temperature: 26°C • Shift temperature: 1.0°C
 • Shift time: 30 min. • Limit cooling set temperature: 30°C



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)

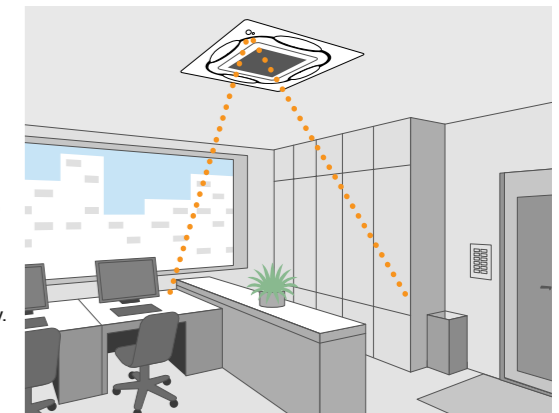
When there are no people in a room, the system stops automatically.*8,9

- 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.

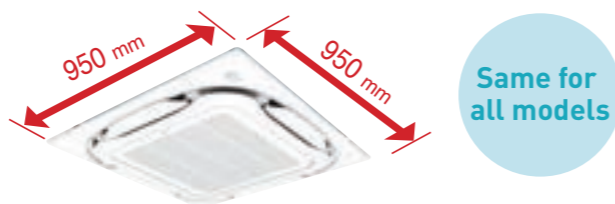
*9. To protect the machine, the standby system may operate temporarily.



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.



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.

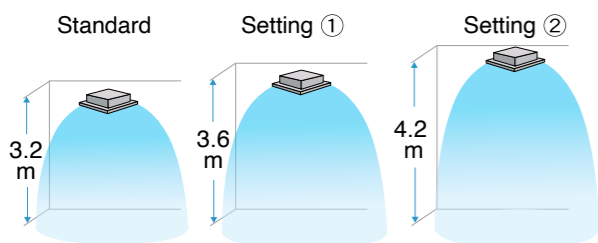
Switchable fan speed: 5 steps and Auto

Quiet operation

Indoor unit	Sound pressure level dB(A)				
	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				85-140 class			
		All round flow	4-way flow	3-way flow	2-way flow	All round flow	4-way flow	3-way flow	2-way flow
Standard	2.7 m	3.1 m	3.0 m	3.5 m	3.2 m	3.4 m	3.6 m	4.2 m	
High ceiling ①	3.0 m	3.4 m	3.3 m	3.8 m	3.6 m	3.9 m	4.0 m	4.2 m	
High ceiling ②	3.5 m	4.0 m	3.5 m	—	4.2 m	4.5 m	4.2 m	—	

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

Cleanliness

Silver ion anti-bacterial drain pan

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



Non-flocking flaps

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



Filter has anti-mould and antibacterial treatment

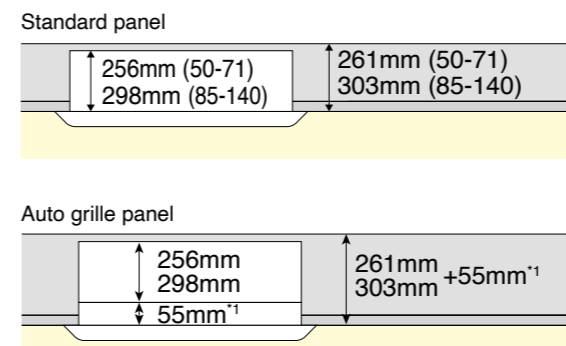
Prevents mould and microorganisms growing out of the dust and moisture that adheres to the filters.

Quick and Easy Installation

Lightweight

All models can be installed without using a lifter.

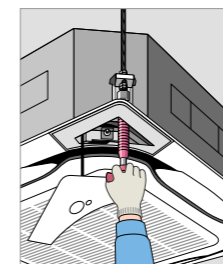
Installable in tight ceiling spaces



*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 height adjustment

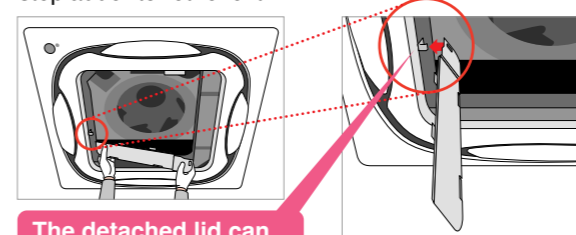
Each corner of the unit has an adjuster pocket that lets you easily adjust the unit's suspended height.



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

Temporary placement of control box lid

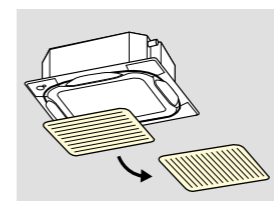
Because the control box lid can be temporarily hung on the unit, there is no need to climb down the stepladder to retrieve it.



The detached lid can be hung on a hook.

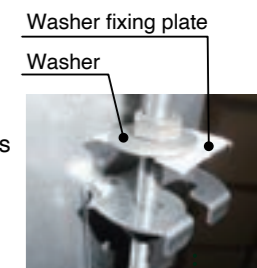
Installed in any direction

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



Easy hanging

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



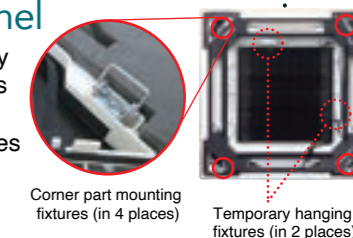
Easy removal of corner cover

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



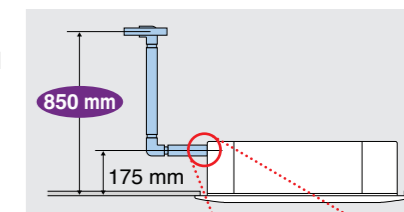
Ease in temporary hanging of decoration panel

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



Drain pump

Equipped as standard accessory with 850 mm lift.



Transparent drain socket



Hanging height adjustment

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

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

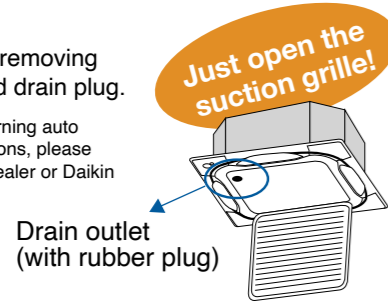
*High-efficiency filter, ultra long-life filter, and fresh air intake

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

◆ Auto grille panel (option)

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

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

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

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

*Airflow range is up to 4.5m. Please refer to "criteria for ceiling height and number of air discharge outlets" on page 27.



Options

See page 64, 65

◆ High performance prefilter (MERV 8 filter)

MERV 8 rating

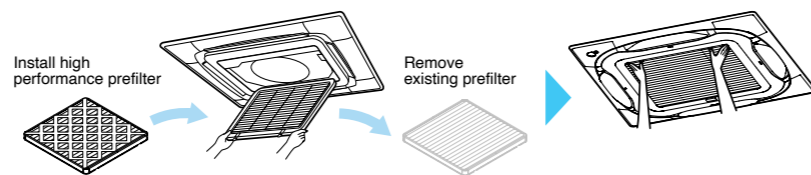
PM2.5 filtration

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.

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



Filter change twice a year

Specifications

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

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

*2. This result is based on the test of the filter only.

The results may be different in the actual use environment where the filter is installed in the indoor unit.

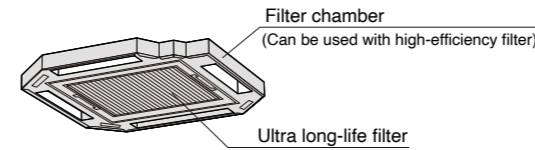
*3. Filter lifetime may vary depending on the condition of the operating environment. Certain instances such as high traffic areas, pets or smokers in a residence, or other situations may require more frequent changes.

Options

Options required for specific operating environments

◆ Ultra long-life filter unit

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



Dusty area: annual filter change

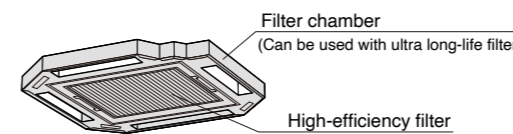
*For dust concentration of 0.3 mg/m³ (Requires separately sold Air purifier.)
1 year (Approx. 5,000 hr) ≈ 15 hr/day x 28 day/month x 12 month/year

Ordinary store or office: filter change every 4 years

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

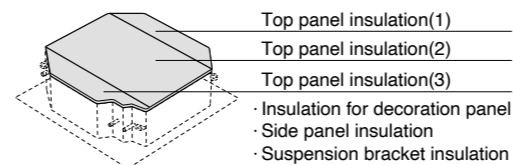
◆ High-efficiency filter unit

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



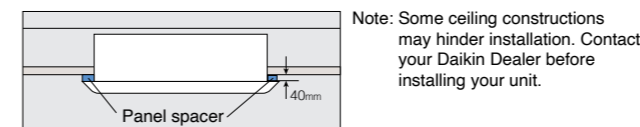
◆ Insulation kit for high humidity

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



◆ Panel spacer

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



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

◆ Sealing material of air discharge outlet

*FCTA series is not available.

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

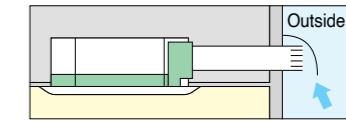
◆ Branch duct chamber

*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

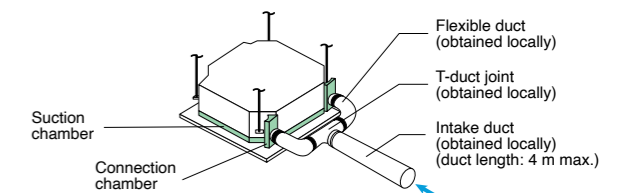
Using this kit, a duct can be connected to take in outdoor air. There are two chamber types that have intake in two places: with T-duct joint and without T-duct joint.



The units can be installed in the following different ways

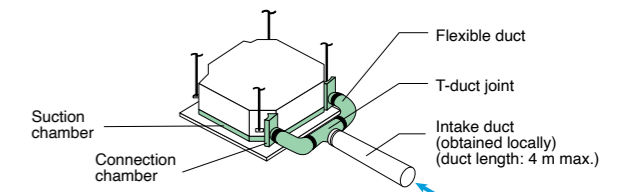
Chamber type (without T-duct joint) Note 3.4.5

KDDP55C160



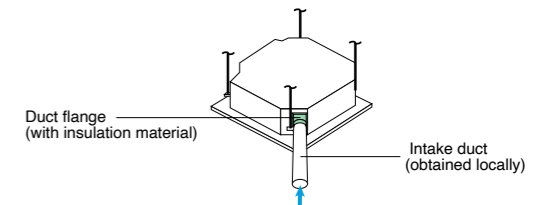
Chamber type (with T-duct joint) Note 3.4.5

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.

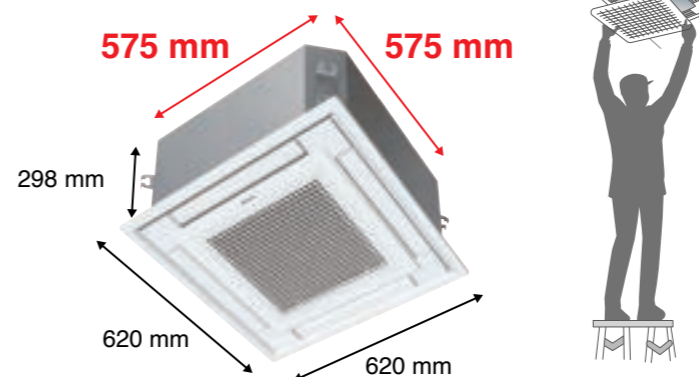
Fully flat cassette, a remarkable blend of iconic design and engineering excellence



NEW
FFA25/35/50/60/71BVM

Compact

- ◆ Sized to fit inside 600mm wide ceiling grids



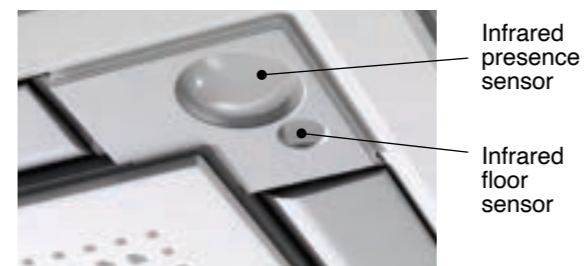
- Inspection opening is necessary on the control box and drain pump side.

Sensing technology *1

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

- ◆ Dual sensors (Option)

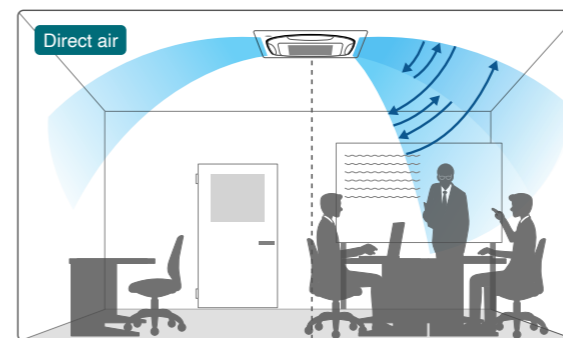
- An optional presence and floor sensor kit can be fitted to the cassette for draft prevention, energy-saving operation, and to provide optimal control of airflow.



- ◆ 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" 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.



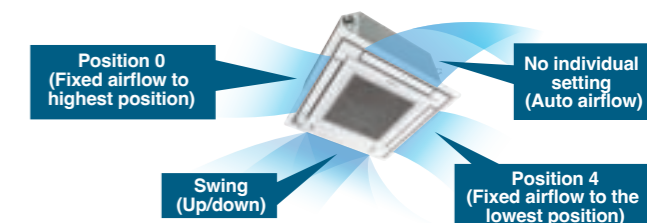
BAPWS55A61

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

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.



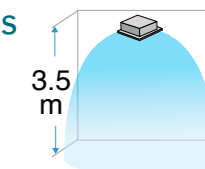
Comfort

- ◆ 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.

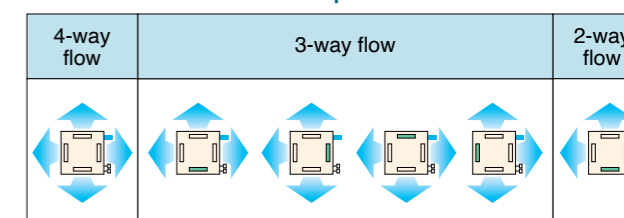
*Field setting with remote controller.



- ◆ 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



■ 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.

Option Accessory required for indoor unit.

Wired Remote Controller

- Stylish Remote Controller (Wired) *1
- Navigation Remote Controller (Wired) *1



NEW BRC1H63W (White) BRC1H63K (Black)



"Nav Ease" BRC1E63

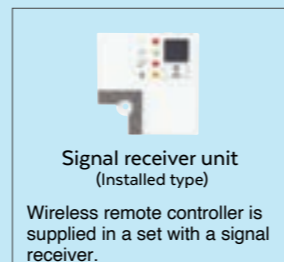
Note: *1 Remote controller cable is not included and must be obtained locally.

Wireless Remote Controller

- Wireless Remote Controller *2



Heat pump BRC7M530W

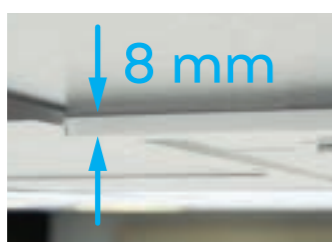


Signal receiver unit (Installed type)
Wireless remote controller is supplied in a set with a signal receiver.

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

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

Comfortable airflow travels throughout the room



NEW
FHA50/60CAVMA
FHA71/85/100/125/140CVMA

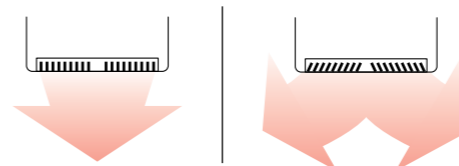
Stylish Model

- ◆ **Sophisticated design**
Flap neatly closes when not in use.
- ◆ **White colour**

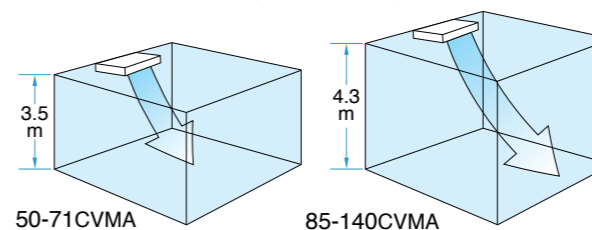


Comfort

- ◆ **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.

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.



BAPWS55A61

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

Installation Flexibility for Freedom of Design

- ◆ **Flexible installation**
The unit fits more snugly into tight spaces.

*Water used in the test-run can be drained from the air discharge opening rather than from the side as was formerly the case.
- ◆ **Drain pump kit (option) can be easily incorporated**
Drain pipe connection can be done inside the unit. Refrigerant and drain pipe outlets are at the same opening.

Drain pump kit (built inside the unit)
- ◆ **DIII-NET communication standard**
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.

- ◆ **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.

Option Accessory required for indoor unit.

Wired Remote Controller

- Stylish Remote Controller (Wired) ¹⁾
- Navigation Remote Controller (Wired) ¹⁾



NEW BRC1H63W (White) BRC1H63K (Black)

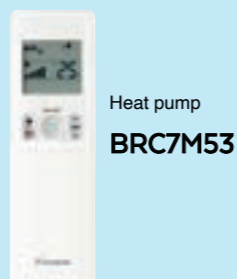


"Nav Ease" BRC1E63

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

Wireless Remote Controller

- Wireless Remote Controller ²⁾



Heat pump BRC7M53



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

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

Compact design and easy installation



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

Compact & Sophisticated Design

- ◆ Flaps neatly close
When not in use.
- ◆ Fresh white colour

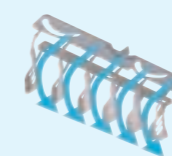


Comfort

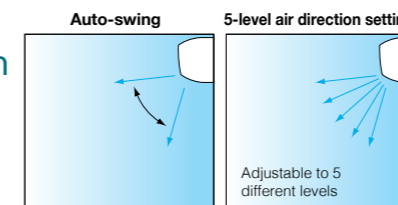
- ◆ Auto swing (up and down) and wide-angle louvers (left and right by hand) facilitate even room temperature.

Wide-angle louvers (by hand)

Soft material louver bends airflow over a wider area

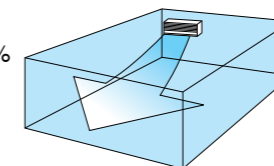


- ◆ An air discharge modes ensure comfortable air distribution across the entire room



- ◆ Comfort even on the far side of the room

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



- ◆ Switchable fan speed: 3 steps and Auto

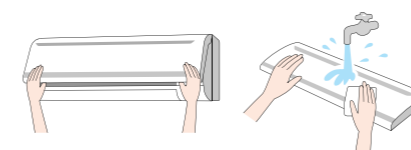
"Auto" is applicable when wired remote controller is used.

- ◆ Programme "Dry"

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

Easy Cleaning

- ◆ Removable and washable grille



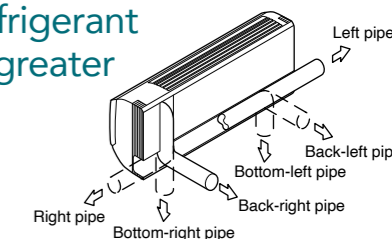
- ◆ Flat panel, easy to wipe dust off

- ◆ Non-flocking flaps

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

Design and Installation Flexibility

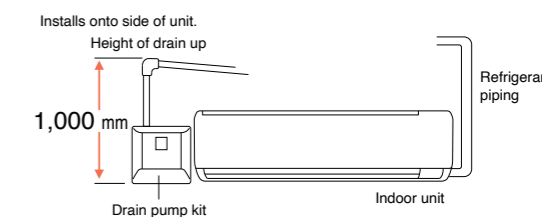
- ◆ 6-direction refrigerant piping offers greater installation flexibility



- ◆ 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



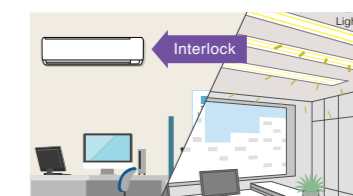
Drain pump kit can be installed on either left and right side of the indoor unit.



- ◆ 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.

Option Accessory required for indoor unit.

Wired Remote Controller

- Stylish Remote Controller (Wired) ¹⁾
- Navigation Remote Controller (Wired) ¹⁾



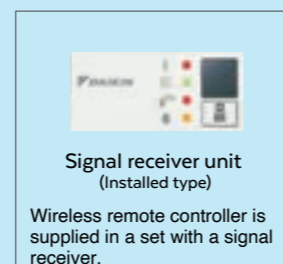
Note: ¹⁾Remote controller cable is not included and must be obtained locally.

Wireless Remote Controller

- Wireless Remote Controller ²⁾



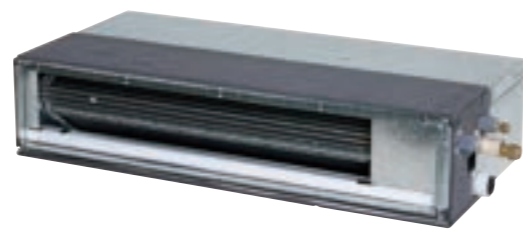
Heat pump
BRC7EB518



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

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

Ideal for areas where a discreet installation is preferred

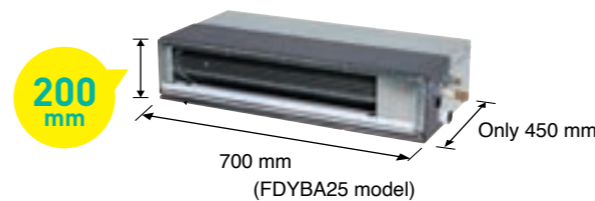


FDYBA25/35/50/60/71AV1

Design and Installation Flexibility

Only 200 mm high

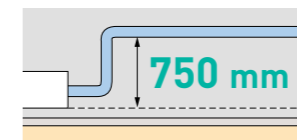
With a height of 200 mm and a depth of 450 mm, new LSP duct is suitable for a variety of applications with limited installation space.



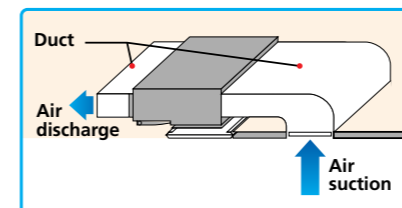
Indoor unit	25A	35/50A	60/71A
Height (mm)	200		
Width (mm)	700	900	1,100
Depth (mm)	450		

Built-in drain pump

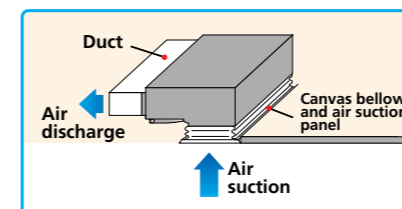
A built-in DC drain pump with standard accessory realized high lift.



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.

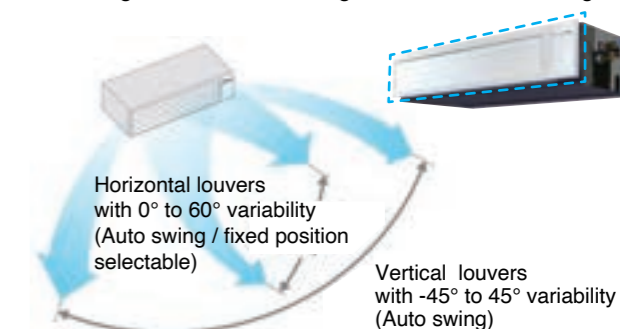
Comfort

Switchable fan speed: 5 steps and Auto

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

3-D auto swing discharge grille (Option)

Motorised louvers 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

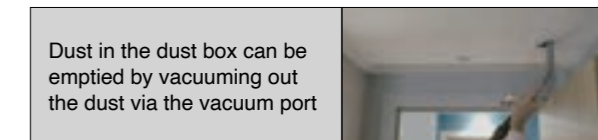
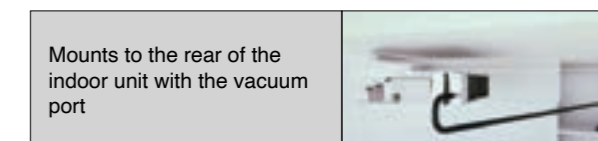
Auto clean air filter unit (Option)

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



Option Accessory required for indoor unit.

Wired Remote Controller

- Stylish Remote Controller (Wired) ¹⁾
- Navigation Remote Controller (Wired) ¹⁾



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



"Nav Ease" BRC1E63

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

Wireless Remote Controller

- Wireless Remote Controller ²⁾



Heat pump **BRC4C65**



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

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

Thinner design allows greater installation flexibility

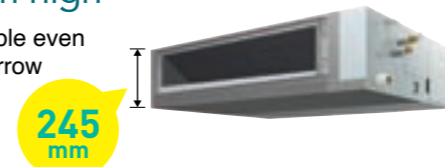


FBA50/60BAVMA
FBA71/85/100/125/140BVMA

Design and Installation Flexibility

Only 245 mm high

Installation is possible even in buildings with narrow ceiling spaces.

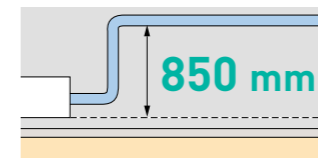


One of the industry's most compact bodies in the mid-static pressure range.

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

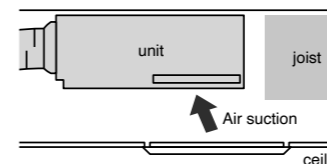
Higher lift is realized

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

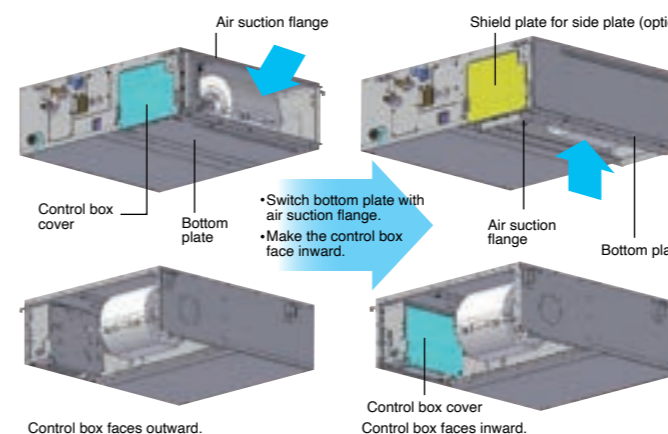


Bottom suction is available

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



Rear suction Bottom suction



Adjustable E.S.P.

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



Set to low static pressure when ducts are short.

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

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

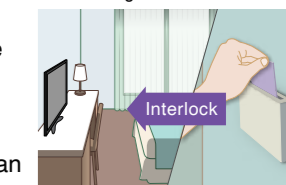
Airflow rate auto adjustment function

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

* Field setting with remote controller



DIII-NET communication standard

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

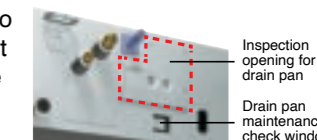
Easy Maintenance

Position of drain pan inspection opening

Modified for easier inspection work.

Drain pan maintenance check window

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



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.)



Option Accessory required for indoor unit.

Wired Remote Controller

- Stylish Remote Controller (Wired) ¹⁾
- Navigation Remote Controller (Wired) ¹⁾



NEW BRC1H63W (White) BRC1H63K (Black)



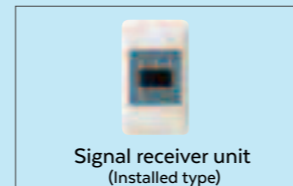
"Nav Ease" BRC1E63

Wireless Remote Controller

- Wireless Remote Controller ²⁾



Heat pump BRC4C65

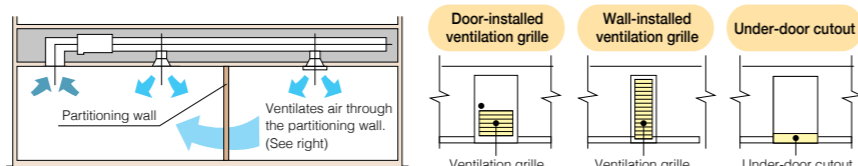


Signal receiver unit (Installed type)
Wireless remote controller is supplied in a set with a signal receiver.

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

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.

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.



Wide Product Range Featuring Swing Compressor

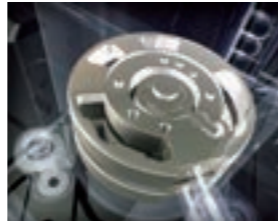
RZAV	New model													
	—	—	50 V1	60 V1	71 V1	71 Y1	85 V1	85 Y1	100 V1	100 Y1	125 V1	125 Y1	140 V1	140 Y1
	Swing compressor													

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

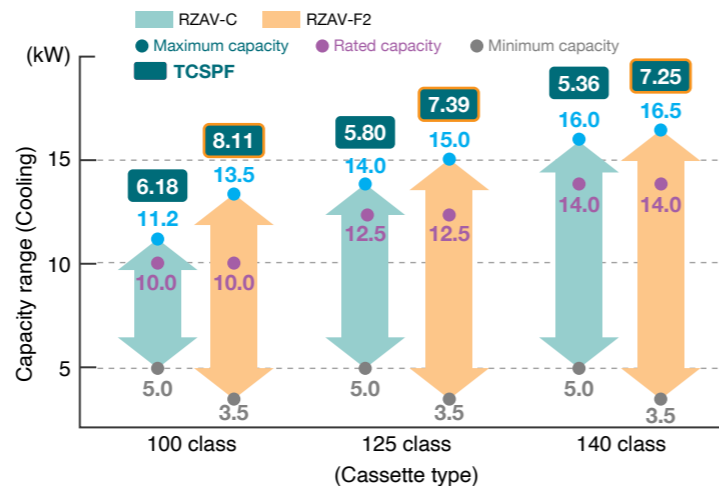
The new RZAV-F series outdoor unit can now operate at a wider capacity range with greater energy efficiency compared to RZAV-C series.

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

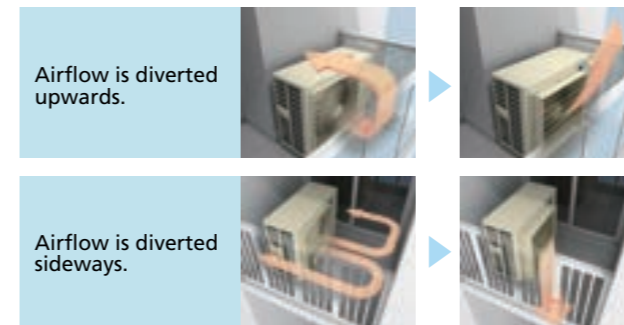
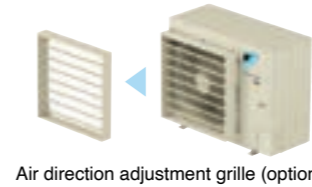
In new RZAV-F series, maximum piping length from 71 to 140 class is increased from 75m to 85m.

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

Design Flexibility of Installation

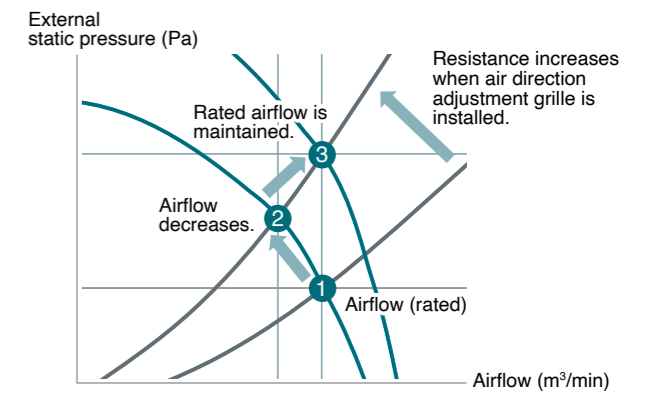
Optimum airflow direction with the optional air direction adjustment grille

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



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.

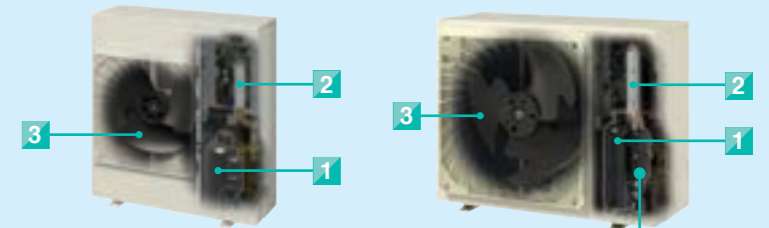
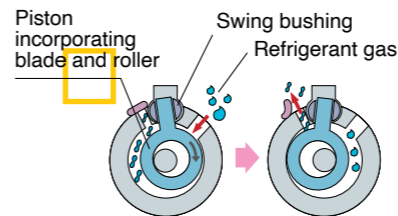


Technology for energy efficiency

1 Swing compressor

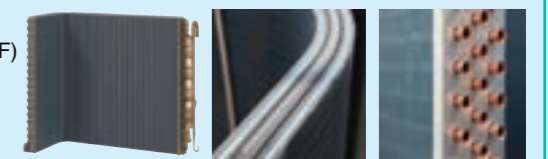
High efficiency during partial load operation.

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

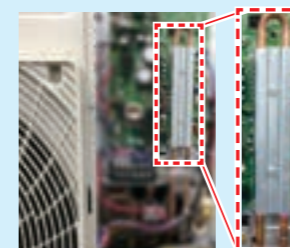


2 Refrigerant cooling

(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.



Stylish Remote Controller (Wired Remote Controller)

BRC1H63W/K



BRC1H63W (White)



BRC1H63K (Black)

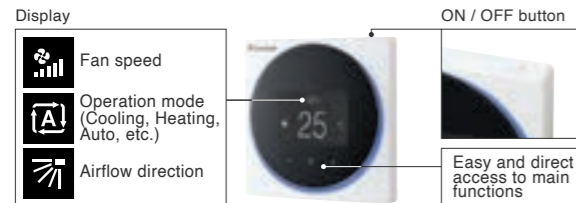


Sleek Stylish Design

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

User-friendly Interface

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



DAIKIN APP for Installer

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

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



*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.

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

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.

"Nav Ease" (Wired Remote Controller)

BRC1E63

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

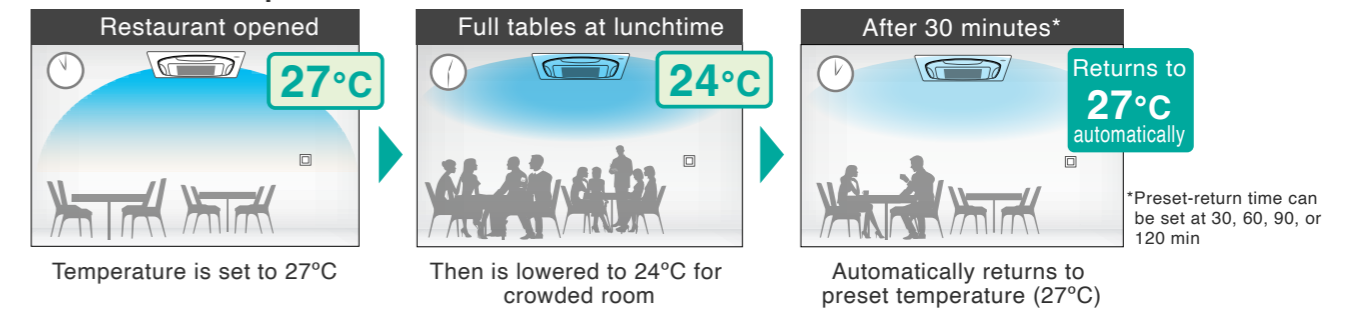


Energy Saving

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:

¹Availability of this function may vary according to model (limited to partial functionality)

²Time setting is necessary.

³This function cannot be used during group control.

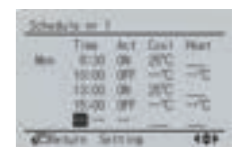
⁴This is a reference value for comparison and is not intended as a value for investigation purposes in the calculation of electricity bills or contract for electricity. Because it is a simple calculation of power consumption, there are cases when the calculated value differs with the measurement results 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 • Signal receiver unit installed on 1 indoor unit
Control by external command	Operation and monitoring is carried out using the contact signal from the operation control box in the monitoring room.	<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"> • Can be operated simultaneously or independently by remote controller (set by ventilation mode) 	<ul style="list-style-type: none"> • 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"> Central remote controller (option) • Heat Reclaim Ventilator for indoor units within a zone is operated by interlocking. Can also be operated independently by remote controller. 	<ul style="list-style-type: none"> Central remote controller (option) • Heat Reclaim Ventilator for indoor units within a zone is operated by interlocking.

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

Functions overview

Heat pump

		CEILING MOUNTED CASSETTE TYPE (Round Flow)				COMPACT MULTI FLOW CEILING MOUNTED CASSETTE TYPE			CEILING SUSPENDED TYPE			
		With Streamer										
		ROUND FLOW										
		ROUND FLOW										
Indoor unit		FCTA50-140 AVMA		FCA50-71CAVMA FCA85-140CVMA		FFA25-71BVM			FHA50/60CAVMA FHA71-140CVMA			
Outdoor unit		RZAV50-85C2V1, 100-140F2V1 RZAV71/85C2Y1, 100-140F2Y1		RZAV50-85C2V1, 100-140F2V1 RZAV71/85C2Y1, 100-140F2Y1 RZAC71-125C2V1, 140F2V1 RZAC85-125C2Y1, 140F2Y1		RZAC25-71E2VM			RZAV50-85C2V1, 100-140F2V1, RZAV71/85C2Y1, 100-140F2Y1			
Remote controller		Wired		Wireless								
		BRC1H63W(K)	BRC1H63W(K)	BRC1E63	—	BRC1H63W(K)	BRC1E63	—	BRC1H63W(K)	BRC1E63	—	
		—	—	—	BRC7M634F (K)	—	—	BRC7M530W	—	—	BRC7M53	
Energy Saving	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										
Comfort	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										
	21	Auto airflow rate										
	22	High fan speed mode										
	23	Two selectable temperature-sensors *2										
	24	High ceiling application										
	25	Hot start										
	26	Year-round cooling applicable										
	27	Night quiet operation *3										
	Cleanliness	28	Streamer filter clean unit									
29		Anti-bacterial air filter										
30		Mould-proof air filter										
31		Silver ion anti-bacterial drain pan										
Work & Servicing	32	Auto grille panel										
	33	Drain pump mechanism										
	34	Pre-charged for up to 30 m *3										
	35	Long-life filter										
	36	Filter sign										
	37	Low gas pressure detection *3										
	38	Emergency operation										
	39	Self-diagnosis function										
	40	Service contact display										
	Control	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										
Options	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 RZAV71-100C2Y1			RZAC25-71G2V1			RZAV50-85C2V1, 100-140F2V1 RZAV71/85C2Y1, 100-140F2Y1 RZAC71/85C2V1, 85C2Y1			
Remote controller		Wired			Wireless						
		BRC1H63W(K)	BRC1E63	—	BRC1H63W(K)	BRC1E63	—	BRC1H63W(K)	BRC1E63	—	
		—	—	BRC7EB518	—	—	BRC4C65	—	—	BRC4C65	
	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									
	21	Auto airflow rate									
	22	High fan speed mode									
	23	Two selectable temperature-sensors *2									
	24	High ceiling application									
	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									
	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									

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

*1: Not applicable when group control.
*2: Applicable when wired remote controller is used.
*3: For outdoor units.
*4: Available combinations are shown in table *4.
*5: Adaptor for Wiring (and installation box) is necessary.
*6: Digital input adaptor (and installation box) is necessary.
*7: Wiring adaptor for electrical appendices (and installation box) is necessary.
*8: For RZAC50/60G2V1.

● Possible

		Main	
		Wired remote controller	
		BRC1H63W(K)	BRC1E63
Sub	Wired	BRC1H63W(K)	●
		BRC1E63	●
		BRC4C* BRC7C/E/F/G*	
	Wireless	BRC7M*	
		BRC7M*	
		BRC4M*	●

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.

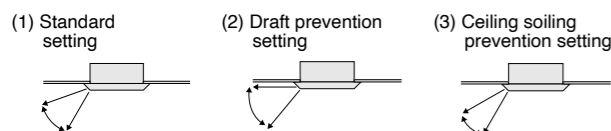
17. Auto swing

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

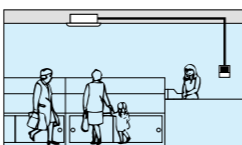
You can increase fan speed approximately 10% higher than the "high" setting.

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.

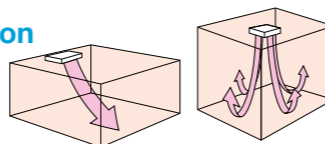
Note: Wireless remote controllers have no temperature-sensor.



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.

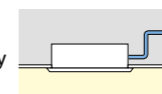
Work & Servicing

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 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	Cooling	kW/kW	4.50	4.20	3.92	4.25	4.21	3.85	3.78	
COP	Heating	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				
		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								
		Hermetically sealed swing type								
	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 ⁴	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		φ6.4		φ9.5				
	Gas (Flare)	mm		φ12.7		φ15.9				
	Drain	Indoor unit	mm						VP25 (I.D. φ25×O.D. φ32)	
		Outdoor unit ⁵	mm		Connectable hose I.D. φ16		Connectable hose I.D. φ25			
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	125	140		
			FCTA71AVMA	FCTA85AVMA	FCTA100AVMA	FCTA125AVMA	FCTA140AVMA		
	Outdoor unit		RZAV71C2Y1	RZAV85C2Y1	RZAV100F2Y1	RZAV125F2Y1	RZAV140F2Y1		
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 (3.5-13.5)	12.5 (3.5-15.0)	14.0 (3.5-16.5)		
Heating capacity ^{2,3} Rated (Min. - Max.)		kW	8.0 (3.5-9.0)	10.0 (4.1-11.2)	12.0 (3.5-14.5)	15.0 (3.5-17.5)	16.5 (3.5-19.5)		
Power consumption	Cooling ¹	kW	1.81	2.00	2.38	3.25	3.70		
	Heating ²	kW	1.81	2.13	2.49	3.41	4.02		
EER	Cooling	kW/kW	3.92	4.25	4.21	3.85	3.78		
COP	Heating	kW/kW	4.42	4.69	4.81	4.40	4.10		
AEER*	Cooling		3.82	4.15	4.12	3.79	3.73		
ACOP*	Heating		4.30	4.59	4.72	4.34	4.05		
TCSPF* (Cooling) Commercial / Residential	Hot		5.59 / 5.14	5.76 / 5.35	7.55 / 6.49	7.02 / 6.09	6.75 / 5.91		
	Average		5.54 / 4.47	5.70 / 4.70	8.11 / 5.68	7.39 / 5.44	7.25 / 5.35		
	Cold		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		5.11 / 5.11	4.90 / 4.91	6.04 / 6.03	5.64 / 5.64	5.69 / 5.63		
	Average		4.82 / 4.65	4.72 / 4.63	5.63 / 5.30	5.23 / 4.93	5.21 / 4.81		
	Cold		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	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							
		Hermetically sealed swing type							
	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	Cooling	°CDB		-5 to 50					
	Heating	°CWB		-15 to 15.5					
Piping connections	Liquid (Flare)	mm		φ9.5					
	Gas (Flare)	mm		φ15.9					
	Drain	Indoor unit	mm				VP25 (I.D. φ25×O.D. φ32)		
		Outdoor unit ⁵	mm		Connectable hose I.D. φ25				
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								

Note :

¹Rated cooling capacities are based on the following conditions: Indoor temp., 27°CDB, 19.0°CWB; outdoor temp. 35°CDB, 24°CWB. Equiv. refrigeration piping, 7.5 m (horizontal).

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.

⁵Drain 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 MOUNTED CASSETTE TYPE <Round Flow> Inverter series (1 Phase)

Model Name		Indoor unit		71	85	100	125	140						
		Outdoor unit		FCA71CAVMA	FCA85CVMA	FCA100CVMA	FCA125CVMA	FCA140CVMA						
				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		50×950×950							
	Machine weight	Unit	kg		22		26							
		Decoration panel	kg		5.5		5.5							
	Certified operation range	Cooling	°CWB		14 to 25		14 to 25							
Heating		°CDB		15 to 27		15 to 27								
Outdoor unit	Colour	Ivory White												
		Hermetically sealed swing type												
	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 / 56		53 / 54
	Night quiet mode		dB(A)		44		47		48		49		49	
	Sound power level	dB(A)		68		70		71		—		—		
		Dimensions (H×W×D)	mm		595×840×300		990×940×320		990×940×320		870×1,100×460		870×1,100×460	
	Machine weight		kg		45		69		78		95		95	
Certified operation range		Cooling	°CDB		-5 to 46		-5 to 46		-5 to 46		-5 to 46			
	Heating	°CWB		-15 to 15.5		-15 to 15.5		-15 to 15.5		-15 to 15.5		-15 to 15.5		
Piping connections	Liquid (Flare)	mm		φ9.5		φ9.5		φ9.5		φ9.5				
	Gas (Flare)	mm		φ15.9		φ15.9		φ15.9		φ15.9				
	Drain	Indoor unit	mm		VP25 (I.D. φ25×O.D. φ32)		VP25 (I.D. φ25×O.D. φ32)		VP25 (I.D. φ25×O.D. φ32)		VP25 (I.D. φ25×O.D. φ32)			
Outdoor unit ⁵		mm		Connectable hose I.D. φ16		Connectable hose I.D. φ25		Connectable hose I.D. φ25		Connectable hose I.D. φ25				
Max. interunit piping length		m		50 (Equivalent length 70)		50 (Equivalent length 70)		50 (Equivalent length 70)		50 (Equivalent length 70)				
Max. installation height difference		m		30		30		30		30				
Heat insulation				Both liquid and gas piping		Both liquid and gas piping		Both liquid and gas piping		Both liquid and gas piping				



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

Model Name		Indoor unit		85	100	125	140					
		Outdoor unit		FCA85CVMA	FCA100CVMA	FCA125CVMA	FCA140CVMA					
				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		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		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		46.0 / 43.5 / 41.0 / 38.5 / 36.0				
		Dimensions (H×W×D)	Unit	mm		298×840×840		298×840×840				
	Decoration panel		mm		50×950×950		50×950×950					
	Machine weight	Unit	kg		26		26					
		Decoration panel	kg		5.5		5.5					
	Certified operation range	Cooling	°CWB		14 to 25		14 to 25					
Heating		°CDB		15 to 27		15 to 27						
Outdoor unit	Colour	Ivory White										
		Hermetically sealed swing type										
	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)		3.70 (Charged for 30 m)				
		Sound pressure level ⁴	Cooling / Heating	dB(A)		51 / 54		52 / 54		53 / 56		53 / 54
	Night quiet mode		dB(A)		47		48		49		49	
	Sound power level	dB(A)		70		71		—		—		
		Dimensions (H×W×D)	mm		990×940×320		990×940×320		990×940×320		870×1,100×460	
	Machine weight		kg		69		78		95		95	
Certified operation range		Cooling	°CDB		-5 to 46		-5 to 46		-5 to 46		-5 to 46	
	Heating	°CWB		-15 to 15.5		-15 to 15.5		-15 to 15.5		-15 to 15.5		
Piping connections	Liquid (Flare)	mm		φ9.5		φ9.5		φ9.5		φ9.5		
	Gas (Flare)	mm		φ15.9		φ15.9		φ15.9		φ15.9		
	Drain	Indoor unit	mm		VP25 (I.D. φ25×O.D. φ32)		VP25 (I.D. φ25×O.D. φ32)		VP25 (I.D. φ25×O.D. φ32)		VP25 (I.D. φ25×O.D. φ32)	
Outdoor unit ⁵		mm		Connectable hose I.D. φ25		Connectable hose I.D. φ25		Connectable hose I.D. φ25		Connectable hose I.D. φ25		
Max. interunit piping length		m		50 (Equivalent length 70)		50 (Equivalent length 70)		50 (Equivalent length 70)		50 (Equivalent length 70)		
Max. installation height difference		m		30		30		30		30		
Heat insulation				Both liquid and gas piping		Both liquid and gas piping		Both liquid and gas piping		Both liquid and gas piping		

Note:
¹Rated cooling capacities are based on the following conditions: Indoor temp., 27°CDB, 19.0°CWB; outdoor temp. 35°CDB, 24°CWB. Equiv. refrigeration piping, 7.5 m (horizontal).
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.
⁵Drain socket is necessary.

★ Values based on GEMS determination 2019.

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

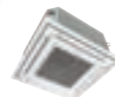
In simple terms, TCSPF & HSPF represents the ratio of the Total Cooling & Heating capacity of the air-conditioner relative to the Total energy consumed by the air-conditioner during the Total Cooling & Heating operation periods in a year.

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.

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



Model Name		Indoor unit		25	35	50	60	71				
		Outdoor unit		FFA25BVM	FFA35BVM	FFA50BVM	FFA60BVM	FFA71BVM				
				RZAC25E2VM	RZAC35E2VM	RZAC50E2VM	RZAC60E2VM	RZAC71E2VM				
Power supply		1 Phase, 220-240V / 220-230V, 50 / 60Hz										
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		2.00	
	Heating ²	kW	0.75		1.09		1.55		1.90		2.25	
EER	Cooling	kW/kW	4.63		3.98		4.50		4.00		3.55	
COP	Heating	kW/kW	4.27		3.85		3.87		3.74		3.56	
AEER*	Cooling		4.45		3.88		4.42		3.94		3.51	
ACOP*	Heating		4.15		3.78		3.82		3.69		3.52	
TCSPF* (Cooling) Commercial / Residential	Hot		6.05 / 5.57		5.69 / 5.24		6.17 / 5.74		5.90 / 5.47		5.34 / 4.96	
	Average		5.85 / 4.67		5.66 / 4.59		6.15 / 5.14		5.98 / 4.96		5.44 / 4.56	
	Cold		6.10 / 4.59		5.98 / 4.64		6.49 / 5.20		6.36 / 5.11		5.83 / 4.73	
HSPF* (Heating) Commercial / Residential	Hot		4.75 / 4.75		4.65 / 4.64		4.87 / 4.87		4.72 / 4.71		4.53 / 4.52	
	Average		4.52 / 4.39		4.33 / 4.13		4.56 / 4.34		4.41 / 4.19		4.23 / 4.02	
	Cold		4.14 / 3.93		3.87 / 3.58		4.12 / 3.84		3.98 / 3.70		3.84 / 3.58	
Indoor unit	Colour	Unit	—									
		Decoration panel	White									
	Airflow rate (H / M / L)	ℓ/s	150 / 133 / 108		167 / 142 / 108		200 / 167 / 125		250 / 208 / 158		258 / 208 / 158	
		m ³ /min	9.0 / 8.0 / 6.5		10.0 / 8.5 / 6.5		12.0 / 10.0 / 7.5		15.0 / 12.5 / 9.5		15.5 / 12.5 / 9.5	
	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		44.0 / 40.0 / 32.0		44.5 / 40.0 / 32.0	
	Sound power level	dB(A)	48		51		56		60			
	Dimensions (H×W×D)	Unit	260×575×575 (+63) ⁵									
		Decoration panel	46×620×620									
	Machine weight	Unit	16				17.5					
		Decoration panel	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	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	46 / 47		48 / 48		49 / 52		53 / 55			
		Night quiet mode	44									
	Sound power level	dB(A)	59		61		62		64		67	
	Dimensions (H×W×D)	mm	550×675×284			695×930×350						
	Machine weight	kg	28			54						
	Certified operation range	Cooling	°CDB -10 to 46									
Heating		°CWB -15 to 18										
Piping connections	Liquid (Flare)	mm	φ6.4		φ6.4							
	Gas (Flare)	mm	φ9.5		φ12.7							
	Drain	Indoor unit	VP20 (I.D. φ20×O.D. φ26)									
Outdoor unit ⁶		Connectable hose I.D. φ16										
Max. interunit piping length	m	20 (Equivalent length 45)			30 (Equivalent length 45)							
Max. installation height difference	m	15			20							
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.
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)



Model Name		Indoor unit		50	60	71	85	100	125	140						
		Outdoor unit		FHA50CAVMA	FHA60CAVMA	FHA71CVMA	FHA85CVMA	FHA100CVMA	FHA125CVMA	FHA140CVMA						
				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 (3.5-12.0)		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		4.61 / 4.33		4.42 / 4.11		4.18 / 3.98		4.31 / 4.12		5.26 / 4.71		4.87 / 4.34		4.80 / 4.28	
	Cold		4.16 / 3.82		3.89 / 3.52		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	250 / 225 / 200 / 183 / 167		342 / 313 / 283 / 258 / 233		467 / 433 / 400 / 367 / 333		517 / 483 / 450 / 417 / 383		567 / 525 / 483 / 442 / 400				
	Sound pressure level ⁴ (H / HM / M / ML / L)	m ³ /min	15.0 / 13.5 / 12.0 / 11.0 / 10.0		20.5 / 18.8 / 17.0 / 15.5 / 14.0		28.0 / 26.0 / 24.0 / 22.0 / 20.0		31.0 / 29.0 / 27.0 / 25.0 / 23.0		34.0 / 31.5 / 29.0 / 26.5 / 24.0					
		dB(A)	37.0 / 36.0 / 35.0 / 33.5 / 32.0		38.0 / 37.0 / 36.0 / 35.0 / 34.0		42.0 / 40.0 / 38.0 / 36.0 / 34.0		44.0 / 42.5 / 41.0 / 39.0 / 37.0		46.0 / 44.0 / 42.0 / 40.0 / 38.0					
	Dimensions (H×W×D)	mm	235×960×690			235×1,270×690			235×1,590×690							
	Machine weight	kg	25			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			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 ⁴		Cooling / Heating	48 / 51		48 / 50		52 / 53		49 / 50		50 / 51		52 / 53			
		Night quiet mode	44													
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	φ6.4		φ9.5											
	Gas (Flare)	mm	φ12.7		φ15.9											
	Drain	Indoor unit	VP20 (I.D. φ20×O.D. φ26)													
Outdoor unit ⁵		mm	Connectable hose I.D. φ16			Connectable hose I.D. φ25										
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															

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.
⁵Drain 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 (3 Phase)



Model Name		Indoor unit		71	85	100	125	140									
		Outdoor unit		FHA71CVMA	FHA85CVMA	FHA100CVMA	FHA125CVMA	FHA140CVMA									
				RZAV71C2Y1	RZAV85C2Y1	RZAV100F2Y1	RZAV125F2Y1	RZAV140F2Y1									
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		235×1,590×690		235×1,590×690					
		Machine weight		kg		32		38		38		38					
		Certified operation range		Cooling		°CWB		14 to 25		14 to 25		14 to 25					
Heating				°CDB		15 to 27		15 to 27		15 to 27							
Outdoor unit		Colour		Ivory White													
		Compressor		Type		Hermetically sealed swing type											
				Motor output		kW		2.40		3.30		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		990×940×320		870×1,100×460		870×1,100×460		870×1,100×460			
		Machine weight		kg		69		78		93		95		95			
		Certified operation range		Cooling		°CDB		-5 to 50		-5 to 50		-5 to 50		-5 to 50			
Heating				°CWB		-15 to 15.5		-15 to 15.5		-15 to 15.5		-15 to 15.5					
Piping connections		Liquid (Flare)		mm		φ9.5		φ9.5		φ9.5		φ9.5					
		Gas (Flare)		mm		φ15.9		φ15.9		φ15.9		φ15.9					
		Drain		Indoor unit		mm		VP20 (I.D. φ20×O.D. φ26)		VP20 (I.D. φ20×O.D. φ26)		VP20 (I.D. φ20×O.D. φ26)					
		Outdoor unit 5		mm		Connectable hose I.D. φ25		Connectable hose I.D. φ25		Connectable hose I.D. φ25							
Max. interunit piping length		m		75 (Equivalent length 90)		85 (Equivalent length 100)		85 (Equivalent length 100)		85 (Equivalent length 100)							
Max. installation height difference		m		30		30		30		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							
				RXC50A2V1A	RXC60A2V1A	RXC71A2V1A	RXC85A2V1A	RXC100A2V1A							
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 (5.0-11.2)							
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		433 / 383 / 317		433 / 383 / 317					
				m³/min		18.0 / 16.0 / 14.0		26.0 / 23.0 / 19.0		26.0 / 23.0 / 19.0					
		Sound pressure level 4 (H / M / L)		dB(A)		45.0 / 42.0 / 40.0		49.0 / 45.0 / 41.0		49.0 / 45.0 / 41.0					
		Sound power level (H / M / L)		dB(A)		61 / 58 / 56		65 / 62 / 58		65 / 62 / 58					
		Dimensions (H×W×D)		mm		290×1,050×238		340×1,200×240		340×1,200×240					
		Machine weight		kg		13		17		17					
Certified operation range		Cooling		°CWB		14 to 25		14 to 25							
		Heating		°CDB		15 to 27		15 to 27							
Outdoor unit		Colour		Ivory White											
		Compressor		Type		Hermetically sealed swing type									
				Motor output		kW		1.3		2.4		3.3			
		Refrigerant charge (R-32)		kg		1.35 (Charged for 30 m)		2.60 (Charged for 30 m)		2.90 (Charged for 30 m)		3.75 (Charged for 30 m)			
		Sound pressure level 4		Cooling / Heating		dB(A)		48 / 51		48 / 50		52 / 53		51 / 53	
				Night quiet mode		dB(A)		44		48		48		47	
		Sound power level		dB(A)		68		67		71		70			
		Dimensions (H×W×D)		mm		595×845×300		990×940×320		990×940×320		1,430×940×320			
		Machine weight		kg		45		69		78		93			
		Certified operation range		Cooling		°CDB		-5 to 50		-5 to 50					
Heating				°CWB		-15 to 15.5		-15 to 15.5							
Piping connections		Liquid (Flare)		mm		φ6.4		φ9.5		φ9.5					
		Gas (Flare)		mm		φ12.7		φ15.9		φ15.9					
		Drain		Indoor unit		mm		VP13 (I.D. φ13×O.D. φ18)		VP13 (I.D. φ13×O.D. φ18)					
		Outdoor unit 5		mm		Connectable hose I.D. φ16		Connectable hose I.D. φ25							
Max. interunit piping length		m		50 (Equivalent length 70)		75 (Equivalent length 90)		75 (Equivalent length 90)							
Max. installation height difference		m		30		30		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.
 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.
 5Drain 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.

WALL MOUNTED TYPE Premium Inverter series (3 Phase)



Model Name		Indoor unit		71	85	100	
		Outdoor unit		FAA71BVMA	FAA85BVMA	FAA100BVMA	
				RZAV71C2Y1	RZAV85C2Y1	RZAV100C2Y1	
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 (5.0-11.2)	
Heating capacity 2,3 Rated (Min. - Max.)		kW		8.0 (3.5-9.0)	10.0 (4.1-11.2)	11.2 (5.1-12.5)	
Power consumption	Cooling 1	kW		2.22	2.59	3.11	
	Heating 2	kW		2.37	3.01	3.48	
EER	Cooling	kW/kW		3.20	3.28	3.22	
COP	Heating	kW/kW		3.38	3.32	3.22	
AEER*	Cooling			3.13	3.22	3.16	
ACOP*	Heating			3.31	3.27	3.17	
TCSPF* (Cooling) Commercial / Residential	Hot			4.85 / 4.46	5.01 / 4.61	5.03 / 4.63	
	Average			4.88 / 3.92	5.06 / 4.10	5.12 / 4.17	
	Cold			5.19 / 4.00	5.40 / 4.21	5.48 / 4.31	
HSPF* (Heating) Commercial / Residential	Hot			4.47 / 4.46	4.49 / 4.48	4.66 / 4.64	
	Average			4.16 / 3.94	4.17 / 3.93	4.25 / 3.95	
	Cold			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				
		m ³ /min	433 / 383 / 317				
	Sound pressure level 4 (H / M / L)	dB(A)	26.0 / 23.0 / 19.0				
		dB(A)	49.0 / 45.0 / 41.0				
	Dimensions (H×W×D)	mm	290×1,050×238		340×1,200×240		
	Machine weight	kg	13		17		
Certified operation range	Cooling	°CWB					
	Heating	°CDB					
Outdoor unit	Colour		Ivory White				
	Compressor	Type	Hermetically sealed swing type				
		Motor output	kW		3.30		
	Refrigerant charge (R-32)	kg	2.60 (Charged for 30 m)	2.90 (Charged for 30 m)	3.75 (Charged for 30 m)		
	Sound pressure level 4	Cooling / Heating	dB(A)		48 / 50	52 / 53	51 / 53
		Night quiet mode	dB(A)		44	48	47
	Sound power level	dB(A)		67	71	70	
	Dimensions (H×W×D)	mm		990×940×320		1,430×940×320	
	Machine weight	kg		69	78	93	
	Certified operation range	Cooling	°CDB				
Heating		°CWB					
Piping connections	Liquid (Flare)	mm		ø9.5			
	Gas (Flare)	mm		ø15.9			
	Drain	Indoor unit	mm				
Outdoor unit 5		mm					
Max. interunit piping length	m		75 (Equivalent length 90)				
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.
 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.
 5Drain 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.

DUCT CONNECTION LOW STATIC PRESSURE TYPE (Bulkhead duct) (1 Phase) Inverter series



Model Name		Indoor unit		25	35	50	60	71	
		Outdoor unit		FDYBA25AV1	FDYBA35AV1	FDYBA50AV1	FDYBA60AV1	FDYBA71AV1	
				RZAC25G2V1	RZAC35G2V1	RZAC50G2V1	RZAC60G2V1	RZAC71G2V1	
Power supply		Indoor unit		1 Phase, 220-240V, 50Hz					
		Outdoor unit		1 Phase, 220-240V, 50Hz					
Cooling capacity 1,3 Rated (Min. - Max.)		kW		2.5 (0.8-2.8)	3.5 (0.8-4.0)	5.0 (1.6-6.2)	6.0 (2.0-6.7)	7.1 (1.7-7.6)	
Heating capacity 2,3 Rated (Min. - Max.)		kW		3.5 (0.9-3.7)	4.0 (1.0-4.3)	6.0 (1.5-7.4)	7.0 (2.0-8.0)	8.0 (1.4-8.6)	
Power consumption	Cooling 1	kW		0.60	1.02	1.37	1.70	2.12	
	Heating 2	kW		0.97	1.11	1.73	1.80	2.22	
EER	Cooling	kW/kW		4.17	3.45	3.65	3.53	3.35	
COP	Heating	kW/kW		3.61	3.60	3.47	3.89	3.60	
AEER*	Cooling			4.02	3.38	3.51	3.42	3.31	
ACOP*	Heating			3.53	3.53	3.36	3.78	3.57	
TCSPF* (Cooling) Commercial / Residential	Hot			5.20 / 4.82	4.70 / 4.37	5.63 / 5.09	5.77 / 5.21	4.96 / 4.61	
	Average			5.02 / 4.11	4.67 / 3.88	5.54 / 4.20	5.76 / 4.38	5.05 / 4.26	
	Cold			5.22 / 4.04	4.92 / 3.92	5.85 / 4.19	6.14 / 4.45	5.40 / 4.41	
HSPF* (Heating) Commercial / Residential	Hot			4.29 / 4.29	4.53 / 4.53	4.78 / 4.76	5.30 / 5.28	6.14 / 6.09	
	Average			3.76 / 3.64	4.25 / 4.06	4.39 / 4.12	4.88 / 4.58	4.96 / 4.13	
	Cold			3.30 / 3.05	3.92 / 3.69	3.92 / 3.58	4.34 / 3.98	3.83 / 3.28	
Indoor unit	Colour		Unit						
	Fan	Airflow rate (H / HM / M / ML / L)	ℓ/s	150 / 133 / 116 / 100 / 85		195 / 182 / 152 / 123 / 95		240 / 220 / 191 / 162 / 132	
			m ³ /min	9.0 / 8.0 / 7.0 / 6.0 / 5.1		11.7 / 10.9 / 9.1 / 7.4 / 5.7		14.4 / 13.2 / 11.5 / 9.7 / 7.9	
	External static pressure 4		Rated 30 (10-50)						
	Sound pressure level 5 (H / L)	Discharge	dB(A)	41.6 / 28.0		43.1 / 26.2		45.3 / 31.0	
				40.8 / 27.4		38.9 / 20.6		41.2 / 25.4	
				30.1 / 19.6		31.6 / 18.6		33.8 / 23.4	
	Sound power level 5 (H / L)	Discharge	dB(A)	56.1 / 42.5		57.6 / 40.7		59.8 / 45.5	
				55.3 / 41.9		53.5 / 35.1		55.7 / 39.9	
				44.6 / 34.1		46.1 / 33.1		48.3 / 37.9	
Air filter 6		Mould-proof air filter (Removable / Washable)							
Dimensions (H×W×D)	mm		200×700×450		200×900×450		200×1,100×450		
Machine weight	kg		18		21		24		
Certified operation range	Cooling	°CWB							
	Heating	°CDB							
Outdoor unit	Colour		Ivory White						
	Compressor	Type	Hermetically sealed swing type						
		Motor output	kW		0.80		1.30		
	Refrigerant charge (R-32)	kg	0.73 (Charged for 10 m)		1.35 (Charged for 30 m)		1.50 (Charged for 10 m)		
	Sound pressure level 7	Cooling / Heating	dB(A)		45 / 48	47 / 48	47 / 50	48 / 51	
		Night quiet mode	dB(A)		(Reduced from rated sound pressure level)				
	Sound power level	dB(A)		60	62	63	67		
	Dimensions (H×W×D)	mm		550×675×284		595×845×300		695×930×350	
	Machine weight	kg		28		45		54	
	Certified operation range	Cooling	°CDB						
Heating		°CWB							
Piping connections	Liquid (Flare)	mm		ø6.4					
	Gas (Flare)	mm		ø9.5		ø12.7			
	Drain	Indoor unit	mm				PVC26 (I.D. ø20×O.D. ø26)		
Outdoor unit 8		mm				Connectable hose I.D. ø16			
Max. interunit piping length	m		20 (Equivalent length 30)		30 (Equivalent length 45)				
Max. installation height difference	m		15		20				
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 by remote controller.
 5The indoor sound levels are determined in accordance with ISO 3745:2012. Values indicated are determined at 1.5m to rated condition, at rated static pressure.
 6Air filter is a standard accessory, supplied with the unit.
 7The 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.
 8Drain 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.

DUCT CONNECTION MIDDLE STATIC PRESSURE TYPE Premium Inverter series (1 Phase)



Model Name		Indoor unit		50	60	71	85	100	125	140			
		Outdoor unit		FBA50BAVMA	FBA60BAVMA	FBA71BVMA	FBA85BVMA	FBA100BVMA	FBA125BVMA	FBA140BVMA			
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		1.37	1.67	2.02	2.30	2.79	3.68	4.28			
		Heating ²		1.41	1.71	1.99	2.50	2.92	3.88	4.52			
EER		Cooling		3.65	3.59	3.51	3.70	3.58	3.40	3.27			
COP		Heating		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	
				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		66		68	
		Air filter ⁶		—									
		Dimensions (H×W×D)		mm		245×1,000×800		245×1,000×800		245×1,400×800		245×1,400×800	
		Machine weight		kg		37		37		47		47	
		Certified operation range		Cooling		°CWB							
Heating				°CDB									
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)	
		Sound pressure level ⁵		Cooling / Heating		dB(A)		48 / 51		48 / 50		52 / 53	
				Night quiet mode		dB(A)		44		48		45	
		Sound power level		dB(A)		68		67		71		68	
		Dimensions (H×W×D)		mm		595×845×300		990×940×320		990×940×320		870×1,100×460	
		Machine weight		kg		45		69		78		93	
		Certified operation range		Cooling		°CDB							
Heating				°CWB									
Piping connections		Liquid (Flare)		mm		φ6.4		φ9.5		φ9.5			
		Gas (Flare)		mm		φ12.7		φ15.9		φ15.9			
		Drain		Indoor unit		mm							
Outdoor unit ⁷				mm		Connectable hose I.D. φ16		Connectable hose I.D. φ25		Connectable hose I.D. φ25			
Max. interunit piping length		m		50 (Equivalent length 70)		75 (Equivalent length 90)		85 (Equivalent length 100)		85 (Equivalent length 100)			
Max. installation height difference		m		30									
Heat insulation		Both liquid and gas piping											

DUCT CONNECTION MIDDLE STATIC PRESSURE TYPE Premium Inverter series (3 Phase)



Model Name		Indoor unit		71	85	100	125	140			
		Outdoor unit		FBA71BVMA	FBA85BVMA	FBA100BVMA	FBA125BVMA	FBA140BVMA			
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		2.02	2.30	2.79	3.68	4.28			
		Heating ²		1.99	2.50	2.92	3.88	4.52			
EER		Cooling		3.51	3.70	3.58	3.40	3.27			
COP		Heating		4.02	4.00	4.11	3.87	3.65			
AEER*		Cooling		3.43	3.62	3.52	3.36	3.23			
ACOP*		Heating		3.92	3.92	4.04	3.82	3.61			
TCSPF* (Cooling) Commercial / Residential		Hot		4.88 / 4.52	5.17 / 4.79	6.46 / 5.55	5.64 / 5.03	5.50 / 4.90			
		Average		4.84 / 3.97	5.15 / 4.26	6.92 / 4.92	6.21 / 4.62	6.09 / 4.53			
		Cold		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		4.49 / 4.49	4.64 / 4.64	5.61 / 5.57	5.38 / 5.32	5.35 / 5.24			
		Average		4.27 / 4.14	4.41 / 4.27	5.14 / 4.75	4.90 / 4.49	4.84 / 4.35			
		Cold		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		383 / 325 / 267		533 / 450 / 375	
				m ³ /min		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)		38.0 / 35.0 / 33.0		38.0 / 35.5 / 33.0		40.0 / 37.5 / 35.0	
		Sound power level (H)		dB(A)		66		66		68	
		Air filter ⁶		—							
		Dimensions (H×W×D)		mm		245×1,000×800		245×1,400×800		245×1,400×800	
		Machine weight		kg		37		47		47	
		Certified operation range		Cooling		°CWB					
Heating				°CDB							
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)	
		Sound pressure level ⁵		Cooling / Heating		dB(A)		48 / 50		52 / 53	
				Night quiet mode		dB(A)		44		48	
		Sound power level		dB(A)		67		71		68	
		Dimensions (H×W×D)		mm		990×940×320		990×940×320		870×1,100×460	
		Machine weight		kg		69		78		93	
		Certified operation range		Cooling		°CDB					
Heating				°CWB							
Piping connections		Liquid (Flare)		mm							
		Gas (Flare)		mm							
		Drain		Indoor unit		mm					
Outdoor unit ⁷				mm		Connectable hose I.D. φ25		Connectable hose I.D. φ25			
Max. interunit piping length		m		75 (Equivalent length 90)		85 (Equivalent length 100)		85 (Equivalent length 100)			
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
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.

DUCT CONNECTION MIDDLE STATIC PRESSURE TYPE Inverter series (1 Phase, 3 Phase)



Model Name		Indoor unit		71		85	
		Outdoor unit		FBA71BVMA		FBA85BVMA	
				RZAC71C2V1		RZAC85C2V1	
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		
HSPF* (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	
			m ³ /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 ⁵	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
HSPF: Heating Seasonal Performance Factor

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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.

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						
		Black	BYCQ125EAK						
	Auto grille panel ^{1,2}	Fresh white	BYCQ125ESBF						
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%)		KAF556D80		KAF556D160			
		(Colorimetric method 90%)		KAF557D80		KAF557D160			
5	Replacement high-efficiency filter ^{7,8}	(Colorimetric method 65%)		KAF552D80		KAF552D160			
		(Colorimetric method 90%)		KAF553D80		KAF553D160			
6	Filter chamber		KDDFP55C160						
7	High performance prefilter (MERV 8 filter) ⁷		BAF552A160						
8	Replacement long-life filter		KAF551D160						
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	Wired type ¹⁰	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.
²When installing auto grille panel, body height (ceiling required dimension) is 55 mm higher than standard panel.
³When installing a fresh air intake kit (chamber type), two air outlet corners are closed.
⁴It 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.
⁵The 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.
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. An option is unnecessary.
¹²Installation box for adaptor PCB (KRP1H98A) is necessary.

Round flow type: Combination table of optional parts

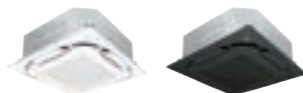
For all round flow, the compatibility of each independently installed option (shown in the column on the left) to accessory options (listed across the top of each table) is shown in the cells where the relevant row and column intersect. A circle (O) indicates compatibility, and a cross (X) indicates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

Optional accessory parts		Independently installable optional 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	Designer panel	X	O	O	O	X	X	X
	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
	Insulation kit for high humidity	X	X	X	O		X	X
Filter related	High-efficiency filter unit ²	X	O	O	O	X		X
	Ultra long-life filter unit ²	X	O	O	O	X	X	

¹In some cases, depending on how the unit is embedded in the ceiling, use of 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.
²When two different types of optional chambers are used together, a fresh air intake kit must be installed in the upper position.

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	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				
			(Colorimetric method 90%)		KAF557D80			KAF557D160			
			(Colorimetric method 65%)		KAF552D80			KAF552D160			
6	Replacement high-efficiency filter ^{8,9}	(Colorimetric method 90%)		KAF553D80			KAF553D160				
			(Colorimetric method 65%)		KAF553D80			KAF553D160			
7	Filter chamber					KDDFP55C160					
8	High performance prefilter (MERV 8 filter) ⁸					BAF552A160					
9	Replacement long-life filter					KAF5511D160					
10	Replacement long-life filter (Auto grille panel)					KAF5512D160					
11	Ultra long-life filter unit (Including filter chamber) ⁸					KAF555D160					
12	Replacement ultra long-life filter ^{8,9}					KAF550D160					
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)						BRC501A-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. The chamber type is recommended when more fresh air is necessary.
⁷Please order using the names of both components instead of set name.
⁸This option cannot be installed to auto grille panel.
⁹Filter chamber is required.
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.

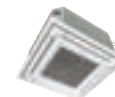
All-round flow 4-way flow		Optional accessory parts						
Independently installable optional parts		Auto grille panel	Panel spacer ¹	Fresh air intake kit (Chamber type) ^{1,2}	Fresh air intake kit (Direct installation type)	Insulation kit for high humidity	High-efficiency filter unit ²	Ultra long-life 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	O	X	X	O	O
	Fresh air intake kit (Direct installation type)	O	O	X	O	O	O	O
	Insulation kit for high humidity	X	X	X	O		X	X
Filter related	High-efficiency filter unit ²	X	O	O	O	X		X
	Ultra long-life filter unit ²	X	O	O	O	X	X	

3-way flow 2-way flow ⁵		Optional accessory parts						
Independently installable optional 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		Δ	O	O	X	X	X
	Panel spacer ^{1,3}	Δ		Δ	Δ	X	X	Δ
Auxiliary function related	Fresh air intake kit (Chamber type) ^{1,2}	O	Δ	O	X	X	X	O
	Fresh air intake kit (Direct installation type)	O	Δ	X	O	O	X	O
	Insulation kit for high humidity	X	X	X	O		X	X
Filter related	Ultra long-life filter unit ²	X	Δ	O	O	X	X	

Branch duct connection		Optional accessory parts						
Independently installable optional 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. (Δ)
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	FFA71BVM
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(2) ³						KRP4AA53
15	Installation box for adaptor PCB ⁴						KRP1BB101
16	Remote sensor (for indoor temperature)						BRC501A-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.
⁴Up to 2 installation boxes can be installed for each indoor unit.
⁵This option is available only when a Stylish remote controller (BRC1H63W(K)) is connected.

CEILING SUSPENDED TYPE



No.	Name of option	Remark	Kit name							
			FHA50CAVMA	FHA60CAVMA	FHA71CVMA	FHA100CVMA	FHA125CVMA	FHA140CVMA		
1	Replacement long-life filter	Resin net						KAF501B56	KAF501B80	KAF501B160
2	Drain pump kit									KDU50R160
3	L-type piping kit (for upward direction)									KHFP5N160
4	Remote controller	Wireless type	Heat pump							BRC7M53
5	Stylish remote controller	Wired type ¹								BRC1H63W (White) / BRC1H63K (Black)
6	Navigation Remote Controller	Wired type ¹	"Nav Ease"							BRC1E63
7	Central remote controller ²									DCS302CA61
8	Unified ON/OFF controller ²									DCS301BA61
9	Schedule timer ²									DST301BA61
10	intelligent Touch Controller ²									DCS601C51
11	Adaptor for wiring									BRP11B61-1
12	Wiring adaptor for electrical appendices ³									KRP4AA52
13	Installation box for adaptor PCB									KRP1D93A
14	Adaptor box mounting plate								KKSAP50A56	
15	Remote sensor (for indoor temperature)									BRC501A-6
16	Electrical box with earth terminal (3 blocks)									KJB311AA
17	Electrical box with earth terminal (2 blocks)									KJB212AA
18	Wireless LAN connecting adaptor									BRP072C42-1
19	Digital input adaptor ³									BRP7A52
20	Mounting kit for Streamer option									BERPW50A61
21	Streamer filter clean unit ^{4,5}									BAPWS55A61

Note:
¹Wiring for wired remote controller should be obtained locally.
²The indoor unit is equipped standardly with the interface adaptor for SkyAir series. An option is unnecessary.
³Installation box for adaptor PCB (KRP1D93A) is necessary.
⁴This option is available only when a Stylish remote controller (BRC1H63W(K)) is connected.
⁵Mounting kit for Streamer option (BERPW50A61) is necessary.



WALL MOUNTED TYPE

No.	Name of option	Remark	Kit name				
			FTXC50AV1A	FTXC60AV1A	FTXC71AV1A FAA71BVMA	FTXC85AV1A FAA85BVMA	FTXC100AV1A FAA100BVMA
1	Drain-up kit		K-KDU572KVE				
2	Remote controller	Wireless type Heat pump	BRC7EB518				
3	Stylish remote controller	Wired type ¹	BRC1H63W (White) / BRC1H63K (Black)				
4	Navigation Remote Controller	Wired type ¹ "Nav Ease"	BRC1E63				
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	FBA125BVMA
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 ⁶		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				

Note:
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
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.

Outdoor unit

		Kit name								
No.	Name of option	Premium Inverter series	1 Phase	RZAV50/60C2V1	---	---	---	---	---	
		Inverter series	1 Phase	---	RXC50/60A2V1A	---	---	---	---	
				RZAC71C2V1	RZAC50/60G2V1	---	RZAC25/35E2VM	RZAC25/35G2V1	RZAC50/60/71E2VM	RZAC71G2V1
1	Central drain plug	KKP014A4				KKP937A4				
2	Air direction adjustment grille	KPW937F4				KPW5G112				

		Kit name							
No.	Name of option	Premium Inverter series	1 Phase	RZAV71/85C2V1	---	RZAV100/125/140F2V1	---	---	---
		Inverter series	3 Phase	---	RXC71/85A2V1A	---	RXC100A2V1A	---	---
				RZAV71/85C2Y1	---	RZAV100/125/140F2Y1	---	---	RZAV100C2Y1
				RZAC85/100/125C2V1	---	RZAC140F2V1	---	---	---
				RZAC85/100/125C2Y1	---	RZAC140F2Y1	---	---	---
1	Central drain plug	KKPJ5H280		BKP082A41		KKPJ5H280			
2	Fixture for preventing overturning	KKTP5B112		---		KKTP5B112			
3	Wire fixture for preventing overturning	K-KYZP15C							
4	Air direction adjustment grille	KPW5G112		KPW082A41		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.