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.

Cautions on product corrosion

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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.
New Inverters Launched!

Energy Saving
Comparison of cooling seasonal power consumption based on average CSPF values

Compact
New outdoor units save even more space

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 right from the basic design to use R-32.

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

approx. 1/3

R-32

R-22

R-410A

R-23

R-11

R-12

R-23

1. Blows horizontally
2. Strikes the wall
3. Reaches every corner of the room

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

Standard panel
- Fresh White -

Designer panel
- Fresh White -

R-32

Super Inverter

5.0–7.1 kW class

7.1–10.0 kW class

12.5–14.0 kW class

CO2

R-22

1810

R-32

675

R-410A

2090

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

*1 Source: Values for 100-year global warming potential (GWP) from IPCC Fourth Assessment Report. Comparative 100-year GWP: HFC410A, 2090; HFC32, 675.

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675

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2090

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

*1 Source: Values for 100-year global warming potential (GWP) from IPCC Fourth Assessment Report. Comparative 100-year GWP: HFC410A, 2090; HFC32, 675.
Airflow until now had areas that were either too cool or not cool enough. ❗️

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

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

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

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

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

4-Way Flow
- Airflow effectively avoids blowing air directly on people.
- Cool air moves down along the walls and to every corner of the room.
- Comfort without cold air pockets at floor level.
- Cools by airflow blocking out hot air near windows and walls.

Three Technologies That Achieved Circulation Airflow

1. Use of new wide flaps (straight)
   - With new, larger flaps, a straighter trajectory for airflow was achieved.
   - By tapering both flap ends, the airflow angle was made more horizontal.
   - New wide flap construction inhibits ceiling dirt and grime.

2. Optimizing airflow angle (horizontal)
   - The airflow angle was made more horizontal.
   - By using new wide flaps, airflow is directed downward.

3. Increased velocity in 2-way flow (straight)
   - Velocity increased by making 2-way flow.
   - Powerful airflow was realized.
   - Other 2 outlets are controlled by changing the flap direction angle to suppress airflow volume.

Things to remember when using circulation airflow

- Airflow direction may differ according to room conditions, room size, and distance to walls.
- Airflow operation differs when using the design panel. (Operation repeatedly switches from 3-way horizontal flow to 2-way horizontal flow to 4-way horizontal flow)
- Circulation airflow functions during connection with wired remote controller (BRCT3501). However, use is not possible for the following conditions:
  - When using remote controller to control airflow and airflow is turned on.
  - When using remote control to change airflow directions.

Circulation airflow (2-way horizontal + 4-way swing)

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

- Areas at floor level are cold, while areas around walls are hot.
- Full comfort is provided with no cold feet.

Comparison Conditions

<table>
<thead>
<tr>
<th>Condition</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Room size</td>
<td>Width 7.5m x Height 3m</td>
</tr>
<tr>
<td>Indoor unit capacity</td>
<td>71 class</td>
</tr>
<tr>
<td>Outdoor air temperature (ºC)</td>
<td>35ºC</td>
</tr>
<tr>
<td>Airflow rate and air direction</td>
<td>High / swing</td>
</tr>
</tbody>
</table>

Table 1

<table>
<thead>
<tr>
<th>Distance to wall from indoor unit</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum distance between indoor units</td>
<td>1.5m</td>
</tr>
<tr>
<td>Maximum distance between indoor units</td>
<td>5m</td>
</tr>
</tbody>
</table>

Installation conditions

- 3-way horizontal flow
- 4-way horizontal flow
- 4-way cassette (Swing)
- All-round flow
- 2-way flow
- New wide flap

Note:
- Areas at floor level are cold, while areas around walls are hot.
- Full comfort is provided with no cold feet.
- Use of new wide flaps
- 2-way flow
- Increased velocity in 2-way flow
- New wide flap

Conventional flap

- New wide flap

Innovative features

- Approx. 5% energy savings by reducing uneven temperatures
- Calculated under the following comparison conditions: When the average temperature at a height of 0.6m above the floor reaches set temperature, (26°C)

Three Technologies That Achieved Circulation Airflow

- Use of new wide flaps
- Optimizing airflow angle
- Increased velocity in 2-way flow

Cassette movie at Daikin official YouTube site.
**Individual Airflow Direction Control**

Comfy 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.**

- **Position 0** (Fixed airflow to highest position)
- **No individual setting** (Auto airflow)
- **Position 4** (Fixed airflow to lowest position)
- **Swing** (Up/down)

---

**Individual airflow settings**

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

---

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

### For shops and restaurant

- Sitting here is hot because of the hot air from outside.
- The seats here are comfortable though.

### For offices

- Discussions near a hot window quickly heat up.
- It is very cold here, isn’t it?...
- Discussions also go smoothly.
- It’s quite pleasant when cool air is not blowing on us.

---

**New Round Flow Cassette movie at Daikin official YouTube site.**

---

**Dual Sensors**

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

---

**Auto Airflow Function**

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

- **Swing** (narrow)

---

**Infrared presence sensor**

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

<table>
<thead>
<tr>
<th>Ceiling height</th>
<th>Detection range (diameter)(^3)</th>
<th>(≈ 8.5)m</th>
<th>(≈ 11.5)m</th>
<th>(≈ 13.5)m</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.7m</td>
<td>approx.</td>
<td></td>
<td></td>
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</tr>
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<td></td>
</tr>
<tr>
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<td></td>
<td></td>
<td></td>
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</table>

\(^3\) 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.

<table>
<thead>
<tr>
<th>Ceiling height</th>
<th>Detection range (diameter)(^4)</th>
<th>(≈ 11)m</th>
<th>(≈ 14)m</th>
<th>(≈ 16)m</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.7m</td>
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<td></td>
<td></td>
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<td>4.0m</td>
<td>approx.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

\(^4\) The infrared floor sensor detects at the floor surface.
Daikin provides your on-demand inverters with a variety of indoor units

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- Compact & Lightweight: P.12
- Quick Cooling: P.13
- Benefits of Inverters: P.14
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- Convenient Functions: P.16
- Reuse of Existing Piping: P.17
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Product Lineup

Series

<table>
<thead>
<tr>
<th>50</th>
<th>60</th>
<th>71</th>
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</thead>
<tbody>
<tr>
<td><strong>CEILING MOUNTED CASSETTE TYPE</strong> (Round Flow)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Indoor unit</td>
<td>FCF50CVM</td>
<td>FCF60CVM</td>
</tr>
<tr>
<td>Outdoor unit</td>
<td>RZF50CVM</td>
<td>RZF60CVM</td>
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<tr>
<td><strong>DUCT CONNECTION MIDDLE STATIC PRESSURE TYPE</strong></td>
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<td></td>
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<tr>
<td>Indoor unit</td>
<td>FBA50BVMA</td>
<td>FBA60BVMA</td>
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<tr>
<td>Outdoor unit</td>
<td>RZF50CVM</td>
<td>RZF60CVM</td>
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<tr>
<td><strong>CEILING SUSPENDED TYPE</strong></td>
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<td></td>
</tr>
<tr>
<td>Indoor unit</td>
<td>FHA50BVMA</td>
<td>FHA60BVMA</td>
</tr>
<tr>
<td>Outdoor unit</td>
<td>RZF50CVM</td>
<td>RZF60CVM</td>
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<tr>
<td><strong>WALL MOUNTED TYPE</strong></td>
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<tr>
<td>Indoor unit</td>
<td>FAA70BVMA</td>
<td></td>
</tr>
<tr>
<td>Outdoor unit</td>
<td>RZF71CVM</td>
<td>RZF71CYM</td>
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<tr>
<td><strong>FLOOR STANDING TYPE</strong></td>
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<td></td>
</tr>
<tr>
<td>Indoor unit</td>
<td>FVA50AMVM</td>
<td>FVA60AMVM</td>
</tr>
<tr>
<td>Outdoor unit</td>
<td>RZF50CVM</td>
<td>RZF60CVM</td>
</tr>
</tbody>
</table>

**OUTDOOR UNIT**

- Outdoor unit: RZF50CVM, RZF60CVM, RZF71CVM, RZF71CYM
- Power supply: 1 phase, 220-230V, 60Hz, 3 phase, 380V, 60Hz
New Inverters launched

Energy Saving

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

- Comparison of cooling seasonal power consumption based on average CSPF values

![Comparison of cooling seasonal power consumption](image)

![CSPF values by capacity for cassette models](image)

- CSPF values by capacity for cassette models

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

- Comparison with the previous mainstream non-inverter series

Outdoor units are much more compact and lighter weight. They enable easy installation in places with limited space.

Compact & Lightweight

New outdoor units save even more space

More compact, much higher CSPF!
- 23% reduction in volume
  - 0.39m³ → 0.30m³
- 40% reduction in weight
  - 109kg → 64kg

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Quick Cooling

- Faster cooling and dehumidification

New inverter control technology brings quick comfort.

- Quick cooling start function

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

**Benefits of Inverters**

**Why is inverter technology economical?**

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

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

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

- Inverters operate without repeated ON/OFF operation.

**Why is inverter technology more comfortable?**

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

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

New inverter control technology brings quick comfort. BRC1E83 wired remote controller is used for ‘Quick cooling start’.
Overvoltage PCB (Outdoor unit option)  See page 54

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

Automatic protection against low voltage

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

Outdoor unit installation is possible even with limited space

Microchannel heat exchanger

Microchannel technology utilises superior heat transfer benefits of aluminium to create a more efficient air conditioner. With a new resistance corrosion aluminium alloy, the Daikin microchannel heat exchanger becomes highly durable. A salt spray test has been conducted to demonstrate the corrosion-resistant capability of our products in corrosive environments for a certain period of time.

- Test of durability
  - Testing organization: MTEC Thailand
  - Testing standard: ASTM B117

Night quiet operation mode

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

Convenient Functions

Navigation remote controller BRC1E63 includes various convenient functions

Automatic return to temperature preset by owner.

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

Demand control function

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

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

Restaurant example

Temperature is set to 27°C Then is lowered to 24°C for crowded room

Automatically returns to preset temperature (27°C)

Night quiet operation mode

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

Self-diagnosis functions enable prompt maintenance response

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

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.

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Test of durability

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

Before testing

After testing

Normal observation

Under telescope

No evidence of corrosion was observed

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When considering air conditioner replacement, do the following things concern you?

- The length of time the business will be closed
- Effect on sales during 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*.

---

### Reuse of Existing Piping

**Benefit 1**

- **Simplified installation reduces replacement time and cost**

When considering air conditioner replacement, do the following things concern you?

- The length of time the business will be closed
- Effect on sales during 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 apply, please check the table on page 37 for acceptable pipe sizing (if pipes are to be reused).

---

**Benefit 2**

- **You can increase cooling capacity and achieve higher energy efficiency**

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

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

---

### Technology

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

- **Stronger refrigerating machine oil**
  - An acid neutraliser agent is added to disable acids (chlorine ions), which cause corrosion.
  - Acid neutraliser
  - Refrigerant pipe

- **Highly corrosion resistant electronic expansion valve**
  - Compressor durability is improved by installing a filter or accumulator to collect solid foreign substances.
  - Filter or accumulator
  - Compressor

- **Highly reliable compressor**

---

### Design Flexibility

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

- **External Equipment Interlock (FCF-C series only)**
  - Power conservation is possible though interlock* of external equipment, such as lighting, with the infrared presence sensor.
  - Power conservation is possible through interlock* of external equipment, such as lighting, with the infrared presence sensor.
  - The presence detection signal of the infrared presence sensor can turn only external equipment ON/OFF without interlocking with air conditioner operation/stop (ON/OFF).

- **Indoor units comply with DII-Net standards**

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

---

*Strict conditions apply, please check the table on page 37 for acceptable pipe sizing (if pipes are to be reused).
Smart Airflow Control

- Indoor units can provide 5-step and 3-step fine control of air volume
  - 5-step: FCF and FHA series
  - 3-step: FBA, FAA, and FVA series
- Comfort ensured by ‘Auto’ airflow rate that matches load level
  Convenient energy-efficiency for stores with peak and quiet periods.

Cassette type <Round Flow>:
- maximum 4.2 m

Ceiling suspended type:
- maximum 4.3 m

More Economy or Comfort in Special Situations

- High sensible cooling enables even greater power savings
  In locations such as simple server rooms, dehumidification is not required and greater power savings are possible with ‘High sensible cooling’ mode.
- High dehumidification cooling provides even greater comfort
  In restaurants and other spaces where many people gather, ‘High dehumidification cooling’ mode reduces humidity and creates greater comfort.

Detail of Each Product Specification
Cassette air conditioner with 360° uniform airflow sets the standard

Panel variations

- Standard panel with Sensing (Fresh white)
- Standard panel (Fresh white)
- Designer panel (Fresh white)
- Standard panel with Sensing (Black)
- Standard panel (Black)
- Auto grille panel (Fresh white)

Accessory required for indoor unit.

Navigation Remote Controller
(Based Remote Controller)

- BRC1E63

Wireless LCD remote controller
A signal receiver must be added to the indoor unit.

- BRC7M635F (Fresh white)
- BRC7M635K (Black)

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

Cassette air conditioner with 360° uniform airflow sets the standard

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

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

360° Airflow
With uniform temperature distribution

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

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

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

- All-round flow
- 3-way flow
- L-shaped 2-way flow
- Opposite 2-way flow

Note:
- Whatever the discharge direction, the same type of panel is used. If installing for other than all-round flow, air discharge outlet sealing material (option) must be used to close unused outlet.
- Operation sound increases when using 2-way or 3-way flow.
- Designer panel cannot operate 2-way and 3-way flow.
Daikin Sensing Technology*1,2

Dual Sensors*1

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

Infrared presence sensor

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

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<td>approx. 8.5m</td>
</tr>
<tr>
<td>3.5m</td>
<td>approx. 11.5m</td>
</tr>
<tr>
<td>4.0m</td>
<td>approx. 13.5m</td>
</tr>
</tbody>
</table>

*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.

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<td>2.7m</td>
<td>approx. 11m</td>
</tr>
<tr>
<td>3.5m</td>
<td>approx. 14m</td>
</tr>
<tr>
<td>4.0m</td>
<td>approx. 16m</td>
</tr>
</tbody>
</table>

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

Auto Airflow Function*5

- When there are no people in a room, the system stops automatically.*10, 11
- Sensing sensor low mode (default: OFF)
  - 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.

Sensing sensor stop mode (default: OFF)

- When there are no people in a room, the system stops automatically.*10, 11
- The system automatically saves energy by detecting whether or not the room is occupied.
- Based on preset user conditions, the system automatically stops operation if the room is unoccupied.

Comfort and Energy Saving Preventing Overcooling*6

- Room temperature is set to 26°C in a 30°C near ceiling area, which is in the vicinity of the person. The temperature near the person is automatically calculated by detecting the temperature of the floor. Energy is saved because the area around the feet does not get too cold.

Sensing Sensor Functions*7,8

- 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.

Example

<table>
<thead>
<tr>
<th>Set temperature (°C)</th>
<th>After 30 min</th>
<th>After another 30 min</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>22°C</td>
<td>27°C</td>
<td>28°C</td>
<td>26°C</td>
</tr>
<tr>
<td>24°C</td>
<td>27°C</td>
<td>28°C</td>
<td>26°C</td>
</tr>
</tbody>
</table>

Sensing sensor functions are not available when using the group control system.

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.

*: Set temperature 1°C every 30 minutes and then operate at 30°C.

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

*10. Please note that upon re-entering the room, the air conditioner will not switch on automatically.

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

** CEILING MOUNTED CASSETTE TYPE 〈Round Flow〉

*1. Applicable when sensing panel (BYCQ125EEF/EEK) is installed.
*2. Applicable when wired remote controller BRCE65 is used.
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**
  - **Draft prevention setting** (field setting)
  - **Ceiling soiling prevention setting** (field setting)
  - Desired situation: For gentle drafts.
  - When drafts are unwanted.
  - For shops with light-coloured ceilings that must be kept spotless.
  - The air direction is set automatically to the memorized position of the previous air direction.

- **Switchable fan speed: 5 steps and Auto**
  Control of airflow rate has been improved from 3-step to 5-step. Auto airflow rate is newly available.

- **Quiet operation**
  Sound pressure level: dB(A)
  - Indoor unit: H 110, F 45, M 35, L 34.5, L 34.5
  - Outdoor unit: G 45

Suitable for high ceilings

- **Criteria for ceiling height and number of air discharge outlets**
  Ceiling height is reference value

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

Cleanliness

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

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

- **Filter has anti-mould and antibacterial treatment**
  Prevents mould and microorganisms growing out of the dust and moisture that adheres to the filters.

Quick and Easy Installation

- **Lightweight**
  All models can be installed without using a lifter.

- **Installable in tight ceiling spaces**
  Standard panel
  - 256mm (50-71C)
  - 298mm (100-140C)
  - 321mm (150-140C)
  - 303mm (180-140C)

- **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

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

- **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.

- **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.

- **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.
**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.

- **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 (BRC16A2) is included. Operation is not possible using BRC18B3.

- **Ultra long-life filter (option)**
  Maintenance is not required in normal shops or offices for up to four years.
  Note: Some ceiling constructions may hinder installation. Contact your Daikin Dealer before installing your unit.

- **Low gas pressure detection**

<table>
<thead>
<tr>
<th>Ceiling Height</th>
<th>Drop Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.4</td>
<td>1.2</td>
</tr>
<tr>
<td>2.5</td>
<td>1.6</td>
</tr>
<tr>
<td>3.0</td>
<td>2.0</td>
</tr>
<tr>
<td>3.5</td>
<td>2.4</td>
</tr>
<tr>
<td>3.8</td>
<td>2.8</td>
</tr>
<tr>
<td>4.2</td>
<td>3.1</td>
</tr>
<tr>
<td>4.5</td>
<td>3.5</td>
</tr>
<tr>
<td>5.0</td>
<td>3.9</td>
</tr>
</tbody>
</table>

*Airflow range is up to 5 m.

- **Condition of the drain pan and drain water**
  Drain outlet (with rubber plug)

- **Drain outlet (with rubber plug)**

**Options**

**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.

<table>
<thead>
<tr>
<th>Filter chamber</th>
<th>(Can be used with high-efficiency filter)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ultra long-life filter</td>
<td></td>
</tr>
</tbody>
</table>

**High-efficiency filter unit**

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

**Insulation kit for high humidity**

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

- **Panel spacer**
  Use when only minimal space is available between drop ceilings and ceiling slabs.

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

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

**Fresh air intake kit**

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.

**Options required for specific operating environments**

- **Fresh air intake kit**
  Note: 1.2

**The units can be installed in the following different ways**

**Chamber type (without T-duct joint)**

<table>
<thead>
<tr>
<th>Chamber type (without T-duct joint) Note: 3.4.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chamber type</td>
</tr>
<tr>
<td>------------------</td>
</tr>
<tr>
<td>Direct installation type</td>
</tr>
<tr>
<td>Note 1.2</td>
</tr>
<tr>
<td>Note 3.4.5</td>
</tr>
</tbody>
</table>

**Chamber type (with T-duct joint)**

<table>
<thead>
<tr>
<th>Chamber type (with T-duct joint) Note: 3.4.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chamber type</td>
</tr>
<tr>
<td>------------------</td>
</tr>
<tr>
<td>Direct installation type</td>
</tr>
<tr>
<td>Note 1.2</td>
</tr>
<tr>
<td>Note 3.4.5</td>
</tr>
</tbody>
</table>

**Panel spacer**

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

**Sealing material of air discharge outlet**

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

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

A round duct can be attached without the need for a chamber.

A flanged port for direct connection of a round duct is provided. An existing branch duct chamber can also be fitted (square slit hole).
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.)

**Comfort**

**Switchable fan speed: 3 steps and Auto**

*“Auto” is applicable when BRC1E63 is used.*

**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.)

**High Efficiency**

**DC fan motor and DC drain pump**

These are utilised to improve energy efficiency.
Comfortable airflow travels throughout the room

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

**Comfort**
- The technology of the DC fan motor, wide sirocco fan, and large heat exchanger combine for greater airflow and quiet operation
- Auto swing (up and down) and louvers (left and right by hand) bring comfort to the room
- Louver manually adjusts for straight or wide angle airflow

**Installation Flexibility for Freedom of Design**
- Flexible installation
  - The unit fits more snugly into tight spaces.
- Drain pump kit (option) can be easily incorporated
  - Drain pipe connection can be done inside the unit.
  - Refrigerant and drain pipe outlets are at the same opening.
- All wiring and internal servicing can be done from under the unit
- Easier piping work for rear side by removable frame

**Easy Maintenance**
- Drain pump kit (option) includes a silver ion antibacterial agent
  - That assists in preventing the growth of slime, bacteria, and mould that cause odours and clogging.
- Non-flocking flap
  - Condensation does not easily form and dirt does not cling to non-flocking flap.
  - It is easy to clean.
- Oil Resistant Grille
  - Oil-resistant plastic is used for the air suction grille.
  - This satisfies durability in restaurants and other similar environments.

**Quiet Operation**

<table>
<thead>
<tr>
<th>Indoor unit</th>
<th>Sound pressure level (dB(A))</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>H</td>
</tr>
<tr>
<td>50/60B</td>
<td>37.0</td>
</tr>
<tr>
<td>71B</td>
<td>38.0</td>
</tr>
<tr>
<td>100B</td>
<td>42.0</td>
</tr>
<tr>
<td>125B</td>
<td>44.0</td>
</tr>
<tr>
<td>140B</td>
<td>46.0</td>
</tr>
</tbody>
</table>

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

**WALL MOUNTED TYPE**

**Compact & Sophisticated Design**

- FAA100
  - [Comparison Chart](#)
  - 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
- An air discharge modes ensure comfortable air distribution across the entire room
- Comfort even on the far side of the room
- Switchable fan speed: 3 steps and Auto
  - “Auto” is applicable when BRC1E63 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**

- Maintenance possible from the front of the unit
  - All maintenance tasks can be carried out via front access. During servicing, attachment and detachment of parts is easier.
- Drain pump kit is available as option
  - Drain pump kit can be installed on either left and right side of the indoor unit.
- Interlock control
  - As an energy saving feature, the room air conditioning unit can be interlocked with the key card system.
  - Using a 3rd-party building management system, air conditioning and lighting can be interlocked.
- DIII-NET communication standard
  - Connection to a centralised control system is available without need for an optional adaptor.
New airflow control for more comfort

Comfy Airflow Control

- **Left and right directions (by remote controller)** (applicable when BRC1E63 is used)
  - Auto swing direction is selectable from 3 patterns to suit the layout of the room.

- **Up and down directions (by hand)**
  - Independent up-and-down airflow directions facilitate even room temperature and help save energy.

Example applications

- When installed in the center of a wall.
- When installed in the corner of a room.

- **New comfortable airflow control**
- Freely select both up and down airflow direction with 8-louver (horizontal blade) setting.

- **Navigation Remote Controller**
  - Accessory required for indoor unit.
  - BRC1E63
    - Navigation Remote Controller
      - Wired Remote Controller
      - Note: Remote controller cable is not included and must be obtained locally.

- **Wireless LCD remote controller**
  - A signal receiver must be used to hand-set the airflow direction.
  - BRC4C66
    - Signal receiver unit (Separate type)

- **Comfort**
  - Switchable fan speed: 3 steps and Auto
    - “Auto” is applicable when BRC1E63 is used.
  - High fan speed mode (applicable for FVA50-100)
    - To carry airflow to the far side of the room, airflow rate can be increased 5% or 10% depending on the installation condition or customer’s request. (Field setting by remote controller.)

- **Programme “Dry”**
  - Dehumidification is microprocessor controlled to prevent abrupt and uncomfortable changes in air temperature.

- **Easy Installation**
  - Lightweight indoor unit
    - Enables smooth transport and installation of the indoor unit.

- **Easy Maintenance**
  - Long-life filter (standard) requires no maintenance for about 1 year*
  - The filter is washable and reused after 1 year.

- **Convenience**
  - A wireless remote controller (separate type) is supplied in a set with a signal receiver.
  - (BRC4C66)

- **DIII-NET communication standard**
  - Connection to a centralised control system is available without option.

---

*For dust concentration of 0.15 mg/m³
- Two time settings (2500 hrs and 1250 hrs) are available to match the installation environment. Maintenance time warning is displayed on the remote controller (filter sign).
- The periodical cleaning time for the filter can be shortened depending on the usage environment.

---

This product is equipped with a gas sensor.
- The gas sensor reacts to nearby smoke, chemical agents, and paint as well as equipment containing flammable gas (including propane, butane, or methane), and sprays using flammable gases (such as LPG), including insecticides and hair spray. When this occurs, a malfunction is displayed and operation is not possible.
- A gas sensor that has once reacted must be replaced with a new gas sensor.
Compact Outdoor Unit

Easy Installation and Maintenance

- **4-direction piping offers greater layout freedom** ([RZF125-140C](#)).
The outer panel for the piping connection part of the front, right side and backside can be removed and is easier for post-installation piping work.
- **Removable part of bottom frame makes the piping work easier** ([RZF125-140C](#)).

Facilitates pump down

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

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

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

- **Low gas pressure detection function**

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

Reuse of Existing Piping: Refrigerant Pipe Size Table

<table>
<thead>
<tr>
<th>Outdoor Unit</th>
<th>Existing pipe size (Liquid / Gas)</th>
<th>Condition</th>
<th>Max. piping length</th>
<th>Chargeless piping length</th>
<th>Level difference</th>
<th>Design pressure (High-pressure)</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>RZF 60-71CVM</td>
<td>9.5 / 15.9</td>
<td></td>
<td>Max. piping length</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>10m 5m 10m 5m</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RZF 71CVM</td>
<td></td>
<td></td>
<td>Max. piping length</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>10m 10m 5m 5m</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Freezing capacity is lowered (pay attention to piping length)**

- **Limitation**

- **Sound pressure level**

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

**Night Quiet Operation Mode**

- **The automatic night quiet mode will initiate 8 hours after the peak temperature is reached in the daytime, and normal operation will resume 10 hours after that**.
- **Reducing noise will reduce capacity slightly**.

Note: 
- 1. Anechoic chamber conversion value, measured according to JIS parameters and criteria.
- 2. Values when cooling, value will differ when heating.

**Demand Control Function**

- **By setting limits that restrict power consumption, you can cut electricity bills** ([RZF100-140CVM](#), [RZF100CVM](#)).

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

### Technology for energy efficiency

**The high efficiency compressor to achieve a high COP**

1. **Compressor equipped with reluctance DC motor**

Daikin DC inverter models are equipped with the reluctance DC motor for compressor.

The reluctance DC motor uses 2 different types of torque, neodymium magnet*1 and reluctance torque*2. This motor can save energy because it generates more power with a smaller electric power than an AC or previous DC motor.

### Swing compressor

High efficiency during partial load operation.

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

**Refrigerant cooling**

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

**High efficiency by micro channel heat exchanger**

Conventional tube and fin coil

Micro channel coil

**Fan**

V-cut propeller fan ([RZF100-140CVM](#), [RZF1-140CVM](#))

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

Imitating the performance of the swan
Easy-to-read LCD remote controller allows various system control configurations and can control multiple indoor units.

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

### Navigation Remote Controller (Wired LCD Remote Controller)

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

#### Energy saving

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

<table>
<thead>
<tr>
<th>Restaurant example</th>
<th>OFF timer (programmed)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Restaurant opened</td>
<td>Full tables at lunchtime</td>
</tr>
<tr>
<td>Temperature is set to 27°C</td>
<td>Temperature is set to 24°C for unoccupied periods</td>
</tr>
<tr>
<td>Then is lowered to 24°C for occupied periods</td>
<td>Automatically returns to preset temperature (27°C)</td>
</tr>
<tr>
<td>Period can be preset from 10, 30, 60 minutes, and OFF.</td>
<td>Returns to 27°C automatically</td>
</tr>
</tbody>
</table>

**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 FCF and FHA series.

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

**Setback (default: OFF)**
- Maintains the room temperature in a specific range during unoccupied periods by temporarily starting an 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.

**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 LCD remote controller

- The wireless remote controller is supplied in a set with a signal receiver.
- Signal receiver unit of installed type is contained inside decoration panel or indoor unit.
- Shape of signal receiver unit differs according to the indoor unit.

#### Wireless remote controller for each indoor unit type

<table>
<thead>
<tr>
<th>Type</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEILING MOUNTED CASSETTE TYPE</td>
<td>BRC7M63SF (Fresh white)</td>
</tr>
<tr>
<td>DUCT CONNECTION MIDDLE STATIC PRESSURE TYPE</td>
<td>BRC7EB519</td>
</tr>
<tr>
<td>WALL MOUNTED TYPE</td>
<td>BRC7EB519</td>
</tr>
<tr>
<td>FLOOR STANDING TYPE</td>
<td>BRC7EB519</td>
</tr>
</tbody>
</table>

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

- Displays auto-swing operating status and setting position of air discharge angle.
- Displays preset room temperature and operating status (fan, dry, cool).
- 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.

- 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.)

### 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.

- Facilitates maintenance and repair
  - All initial settings can be set from the remote controller. After interior construction is complete, ceiling mounted cassette type can be remotely set without having to use a stepladder to access for manual setting.
  - Setting contents: High ceiling use, air direction, filter type, address for centralised control (group control address is set automatically).

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

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

- 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.
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- LCD panel shows operating status in letters, numbers, and motion.
System variation to control multiple indoor units

<table>
<thead>
<tr>
<th>Control pattern</th>
<th>Wired remote controller</th>
<th>Wireless remote controller</th>
</tr>
</thead>
<tbody>
<tr>
<td>Control by 1 remote controller</td>
<td>(Basic system)</td>
<td>* Non-polar, double-core (max. wiring length 500 m)</td>
</tr>
<tr>
<td>Control by 2 remote controllers</td>
<td>For control from 2 locations such as in room and control room, exits, etc.</td>
<td>* Connects 2 wired remote controllers (See note 1)</td>
</tr>
<tr>
<td>Group control</td>
<td>For simultaneous control of up to 16 indoor units.</td>
<td>* Automatic address setting function</td>
</tr>
<tr>
<td>Control by external command</td>
<td>Operation and monitoring is carried out using the designated remote control box in the</td>
<td>* Signal receiver unit installed on indoor unit</td>
</tr>
<tr>
<td>Centralised remote control</td>
<td>monitoring room.</td>
<td></td>
</tr>
<tr>
<td>Link by remote controller group control</td>
<td>Centralised control of up to 64 indoor groups from remote location up to 1 km away.</td>
<td>* Central remote controller (option)</td>
</tr>
<tr>
<td>Interlock control with Heat Reclaim</td>
<td>Heat Reclaim Ventilator for indoor units within a zone is operated by interlocking.</td>
<td>* Central remote controller (option)</td>
</tr>
<tr>
<td>Ventilator</td>
<td>Can be operated simultaneously or independently by remote controller (set by ventilation mode)</td>
<td>* Interface adapter for SkyAir series (option) is required</td>
</tr>
<tr>
<td>Zone link control by centralised control</td>
<td>Central remote controller (option)</td>
<td>* Interface adapter for SkyAir series (option) is required</td>
</tr>
</tbody>
</table>

Note: 1BRC1E62 can connect to BRC1E63 only. BRC1E63 can connect BRC1E63 only. 2 When a wireless remote controller is used, it is not possible to use 2 wireless remote controllers. Combination of BRC1E63 (main) and BRC1E61 (sub) is available.

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

<table>
<thead>
<tr>
<th>Central remote controller</th>
<th>Unified on/off controller</th>
<th>Schedule timer</th>
</tr>
</thead>
<tbody>
<tr>
<td>DCS302CA61 (Option)</td>
<td>DCS301BA61 (Option)</td>
<td>DST301BA61 (Option)</td>
</tr>
<tr>
<td>Centralised control, with setting as simple as if it is with a standard remote controller, of up to 64 groups (1,024 indoor units) is possible.</td>
<td>Unified control of on/off 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.</td>
<td>With its high functionality, the full colour “all-in-one” graphic controller facilitates management of SkyAir System in a variety of ways.</td>
</tr>
</tbody>
</table>
## Functions overview

### Cooling only

#### Energy Saving

| 1 | Energy consumption monitoring *1 |
| 2 | Sensing sensor stop mode *1 |
| 3 | Sensing sensor low mode *1, 2 |
| 4 | Auto display OFF *1 |
| 5 | Setpoint auto reset *1 |
| 6 | Setpoint range set *1 |
| 7 | CPF timer (programmed) *1 |
| 8 | Weekly schedule timer *1 |
| 9 | ON/OFF timer |

#### Comfort

| 10 | Circulation airflow *1 |
| 11 | Setback *1 |
| 12 | Quick start *1 |
| 13 | Individual airflow control *1 |
| 14 | Infrared presence sensor |
| 15 | Infrared floor sensor |
| 16 | Humidity sensor |
| 17 | Auto airflow function *1 |
| 18 | Auto swing |
| 19 | Swing pattern selection |
| 20 | Switchable fan speed |
| 21 | Auto airflow rate |
| 22 | High fan speed mode |
| 23 | Two selectable temperature-sensors *1 |
| 24 | High ceiling application |
| 25 | Night quiet operation *3 |

#### Cleanliness

| 26 | Anti-bacterial air filter |
| 27 | Mould-proof air filter |
| 28 | Silver ion anti-bacterial drain pan |
| 29 | Mould-proof drain pan |

#### Work & Servicing

| 30 | Auto grille panel |
| 31 | Drain pump mechanism |
| 32 | Pre-charged for up to 36 m *3 |
| 33 | Long-life filter |
| 34 | Filler sign |
| 35 | Low gas pressure detection *3 |
| 36 | Emergency operation |
| 37 | Self-diagnosis function |
| 38 | Service contact display *1 |

#### Control

| 39 | Auto-restart |
| 40 | Control by 2 remote controllers |
| 41 | Group control by 1 remote controller |
| 42 | External equipment interlock *4 |
| 43 | External signal forced OFF and ON/OFF operation |
| 44 | External command control *5 |
| 45 | Central remote control |
| 46 | Interlock control with Heat Reclaim Ventilator |
| 47 | DII-NET communication standard |

#### Options

| 48 | High-efficiency filter |
| 49 | Ultra long-life filter |
| 50 | Fresh air intake kit |
| 51 | Overvoltage PCB *3 |

---

**Note:**
- *1: Applicable when BRC1E63 is used*  
- *2: Not applicable when group control*  
- *3: For outdoor units*  
- *4: Adaptor for Wiring (and installation box) is necessary*  
- *5: Wiring adaptor for electrical appendices (and installation box) is necessary*  
- *6: Option is required*  
- *7: It is not possible to use 2 wireless remote controllers. Combination of BRC1E63 (main) and BRC7M (sub) is available.*  
- *8: Applicable for FVA50-100*
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.

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

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

12. Quick start
    At operation start, capacity priority operation is possible.

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

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

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

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

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

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

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

19. Swing pattern setting
    You can freely set air discharge settings by remote controller.
   (1) Standard setting
   (2) Draft prevention setting
   (3) Ceiling setting prevention setting

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

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

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

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

   Use the temperature-sensor in the indoor unit when controlling air conditioning from another room.
   Note: Wireless remote controllers have no temperature-sensor.

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

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

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

Comfort

Cleanliness

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

27. Mould-proof air filter
   Sanitary filter has mould-resistant treatment.

Work & Servicing

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

29. Mould-proof drain pan
   Mould-proof drain pan prevents growth of mould in highly humid conditions.

30. Auto grille panel
    Grille and air filter cleaning can be performed without need for a step ladder by lowering the grille.

31. Drain pump mechanism
    Steep gradient radiuses more efficient condensate drainage. High lift is especially useful for long lengths of drain piping.

32. Pre-charged for up to 30 m
    If refrigerant pipe length does not exceed 30 m, there is no need for on-site gas charging.

33. 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

34. 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.

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

Options

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

49. Ultra long-life filter
    Requires no maintenance for about 4 years* (10,000 h) in stores and offices.

   *For dust concentration of 0.15 mg/m³

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

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

Control

39. 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.

40. 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.

41. 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.)

42. 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 interfaced with external equipment.
    Power conservation is possible through the interlocking of external equipment, such as lighting, with the infrared presence sensor.

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

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

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

45. Central remote control
    Optional central remote controller enables centralised control of up to 204 indoor units (64 groups) from up to 1 km away.

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

47. DIIL-NET communication standard
    Connection to a centralised control system is available without need for an optional adapter.
### CEILING MOUNTED CASSETTE TYPE <Round Flow> (1 Phase)

<table>
<thead>
<tr>
<th>Model Name</th>
<th>Indoor unit</th>
<th>Outdoor unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>FCF100CVM</td>
<td>RZF100CVM</td>
<td>RZF100CVM</td>
</tr>
<tr>
<td>FCF125CVM</td>
<td>RZF125CVM</td>
<td>RZF125CVM</td>
</tr>
<tr>
<td>FCF140CVM</td>
<td>RZF140CVM</td>
<td>RZF140CVM</td>
</tr>
</tbody>
</table>

#### SPECIFICATIONS

- **Power supply**: Indoor unit - 1 Phase / 200-240V / 60Hz

- **Rated Capacity (Min. - Max.)**: kW
  - Rated indoor capacity: 3.6 / 3.0 / 2.5 / 2.0 / 1.5
  - Rated outdoor capacity: 5.0 / 4.3 / 3.6 / 3.0 / 2.5

- **Power consumption**: Cooling kW
  - kW: 3.6 / 3.0 / 2.5 / 2.0 / 1.5

- **Coil**: W/W
  - W: 3.6 / 3.0 / 2.5 / 2.0 / 1.5

- **Decoration panel**: X

- **Machine weight**: kg
  - kg: 24 / 27 / 29 / 30 / 32

- **Certified Operation range**: °C
  - °C: 14 to 26

- **Air filter**: 5

- **Max. interunit piping length**: m
  - m: 25 (Equivalent length 75)

- **Heat insulation**: Both liquid and gas piping

---

### DUCT CONNECTION MIDDLE STATIC PRESSURE TYPE (1 Phase)

<table>
<thead>
<tr>
<th>Model Name</th>
<th>Indoor unit</th>
<th>Outdoor unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>FBA100BVM</td>
<td>RZF100CVM</td>
<td>RZF100CVM</td>
</tr>
<tr>
<td>FBA125BVM</td>
<td>RZF125CVM</td>
<td>RZF125CVM</td>
</tr>
<tr>
<td>FBA140BVM</td>
<td>RZF140CVM</td>
<td>RZF140CVM</td>
</tr>
</tbody>
</table>

#### SPECIFICATIONS

- **Power supply**: Indoor unit - 1 Phase / 200-240V / 60Hz

- **Rated Capacity (Min. - Max.)**: kW
  - Rated indoor capacity: 3.6 / 3.0 / 2.5 / 2.0 / 1.5
  - Rated outdoor capacity: 5.0 / 4.3 / 3.6 / 3.0 / 2.5

- **Power consumption**: Cooling kW
  - kW: 3.6 / 3.0 / 2.5 / 2.0 / 1.5

- **Coil**: W/W
  - W: 3.6 / 3.0 / 2.5 / 2.0 / 1.5

- **Decoration panel**: X

- **Machine weight**: kg
  - kg: 24 / 27 / 29 / 30 / 32

- **Certified Operation range**: °C
  - °C: 14 to 26

- **Air filter**: 5

- **Max. interunit piping length**: m
  - m: 25 (Equivalent length 75)

- **Heat insulation**: Both liquid and gas piping

---

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

<table>
<thead>
<tr>
<th>Model Name</th>
<th>Indoor unit</th>
<th>Outdoor unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>FCF171CV</td>
<td>RZF171CV</td>
<td>RZF171CV</td>
</tr>
<tr>
<td>FCF190CV</td>
<td>RZF190CV</td>
<td>RZF190CV</td>
</tr>
<tr>
<td>FCF215CV</td>
<td>RZF215CV</td>
<td>RZF215CV</td>
</tr>
</tbody>
</table>

#### SPECIFICATIONS

- **Power supply**: Indoor unit - 1 Phase / 200-240V / 60Hz

- **Rated Capacity (Min. - Max.)**: kW
  - Rated indoor capacity: 4.2 / 3.5 / 3.0 / 2.5 / 2.0
  - Rated outdoor capacity: 5.6 / 4.8 / 4.2 / 3.5 / 2.9

- **Power consumption**: Cooling kW
  - kW: 3.6 / 3.0 / 2.5 / 2.0 / 1.5

- **Coil**: W/W
  - W: 3.6 / 3.0 / 2.5 / 2.0 / 1.5

- **Decoration panel**: X

- **Machine weight**: kg
  - kg: 24 / 27 / 29 / 30 / 32

- **Certified Operation range**: °C
  - °C: 14 to 26

- **Air filter**: 5

- **Max. interunit piping length**: m
  - m: 25 (Equivalent length 75)

- **Heat insulation**: Both liquid and gas piping

---

### DUCT CONNECTION MIDDLE STATIC PRESSURE TYPE (3 Phase)

<table>
<thead>
<tr>
<th>Model Name</th>
<th>Indoor unit</th>
<th>Outdoor unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>FBA171BVM</td>
<td>FBA190BVM</td>
<td>FBA190BVM</td>
</tr>
<tr>
<td>FBA215BVM</td>
<td>FBA215BVM</td>
<td>FBA215BVM</td>
</tr>
<tr>
<td>FBA250BVM</td>
<td>FBA250BVM</td>
<td>FBA250BVM</td>
</tr>
</tbody>
</table>

#### SPECIFICATIONS

- **Power supply**: Indoor unit - 1 Phase / 200-240V / 60Hz

- **Rated Capacity (Min. - Max.)**: kW
  - Rated indoor capacity: 3.6 / 3.0 / 2.5 / 2.0 / 1.5
  - Rated outdoor capacity: 5.0 / 4.3 / 3.6 / 3.0 / 2.5

- **Power consumption**: Cooling kW
  - kW: 3.6 / 3.0 / 2.5 / 2.0 / 1.5

- **Coil**: W/W
  - W: 3.6 / 3.0 / 2.5 / 2.0 / 1.5

- **Decoration panel**: X

- **Machine weight**: kg
  - kg: 24 / 27 / 29 / 30 / 32

- **Certified Operation range**: °C
  - °C: 14 to 26

- **Air filter**: 5

- **Max. interunit piping length**: m
  - m: 25 (Equivalent length 75)

- **Heat insulation**: Both liquid and gas piping

---

**Notes**:

- Rated cooling capacities are based on the following conditions: Indoor temp: 2°C/60%RH; Outdoor temp: 35°C/85%RH; Outdoor press. (Excluding piping): 1.5 m (horizontal).
- Capacities are net, including a deduction for cooling for indoor fan motor heat.
- The operation sound is measured in anechoic chamber. If it is measured under the actual installation conditions, it is normally over the net value due to environmental noise and sound reflection.
- *No data*
### CEILING SUSPENDED TYPE (1 Phase)

<table>
<thead>
<tr>
<th>Model Name</th>
<th>Indoor unit</th>
<th>Outdoor unit</th>
<th>Power supply</th>
<th>Cooling Capacity</th>
<th>Power consumption</th>
<th>COP</th>
<th>Weight</th>
<th>Dimensions (H / HM / M / ML / L)</th>
<th>Machine weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>FH400BVM</td>
<td>RZFS15CV</td>
<td>RZFR15CV</td>
<td>1 Phase / 200-230V / 60Hz</td>
<td>4.3</td>
<td>2.1</td>
<td>1.9</td>
<td>580 / 377 / 247 / 199</td>
<td>961 / 781 / 617</td>
<td>293 / 211 / 169</td>
</tr>
<tr>
<td>FH500BVM</td>
<td>RZFS18CV</td>
<td>RZFR18CV</td>
<td>1 Phase / 200-230V / 60Hz</td>
<td>6.0</td>
<td>2.8</td>
<td>2.5</td>
<td>580 / 377 / 247 / 199</td>
<td>961 / 781 / 617</td>
<td>293 / 211 / 169</td>
</tr>
<tr>
<td>FH600BVM</td>
<td>RZFS22CV</td>
<td>RZFR22CV</td>
<td>1 Phase / 200-230V / 60Hz</td>
<td>7.1</td>
<td>3.1</td>
<td>3.0</td>
<td>580 / 377 / 247 / 199</td>
<td>961 / 781 / 617</td>
<td>293 / 211 / 169</td>
</tr>
</tbody>
</table>

### CEILING SUSPENDED TYPE (3 Phase)

<table>
<thead>
<tr>
<th>Model Name</th>
<th>Indoor unit</th>
<th>Outdoor unit</th>
<th>Power supply</th>
<th>Cooling Capacity</th>
<th>Power consumption</th>
<th>COP</th>
<th>Weight</th>
<th>Dimensions (H / HM / M / ML / L)</th>
<th>Machine weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>FH400BVM</td>
<td>RZFS15CV</td>
<td>RZFR15CV</td>
<td>3 Phase / 380V / 60Hz</td>
<td>4.3</td>
<td>2.1</td>
<td>1.9</td>
<td>580 / 377 / 247 / 199</td>
<td>961 / 781 / 617</td>
<td>293 / 211 / 169</td>
</tr>
<tr>
<td>FH500BVM</td>
<td>RZFS18CV</td>
<td>RZFR18CV</td>
<td>3 Phase / 380V / 60Hz</td>
<td>6.0</td>
<td>2.8</td>
<td>2.5</td>
<td>580 / 377 / 247 / 199</td>
<td>961 / 781 / 617</td>
<td>293 / 211 / 169</td>
</tr>
<tr>
<td>FH600BVM</td>
<td>RZFS22CV</td>
<td>RZFR22CV</td>
<td>3 Phase / 380V / 60Hz</td>
<td>7.1</td>
<td>3.1</td>
<td>3.0</td>
<td>580 / 377 / 247 / 199</td>
<td>961 / 781 / 617</td>
<td>293 / 211 / 169</td>
</tr>
</tbody>
</table>

### WALL MOUNTED TYPE (1 Phase, 3 Phase)

<table>
<thead>
<tr>
<th>Model Name</th>
<th>Indoor unit</th>
<th>Outdoor unit</th>
<th>Power supply</th>
<th>Cooling Capacity</th>
<th>Power consumption</th>
<th>COP</th>
<th>Weight</th>
<th>Dimensions (H / HM / M / ML / L)</th>
<th>Machine weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>FHA71BVMA</td>
<td>RZFT17CV</td>
<td>RZFR17CV</td>
<td>1 Phase / 200-230V / 60Hz</td>
<td>3.0</td>
<td>1.7</td>
<td>1.6</td>
<td>590 / 459 / 329</td>
<td>850 / 668 / 590</td>
<td>420 / 290 / 131</td>
</tr>
<tr>
<td>FHA100BVMA</td>
<td>RZFT18CV</td>
<td>RZFR18CV</td>
<td>1 Phase / 200-230V / 60Hz</td>
<td>4.7</td>
<td>2.6</td>
<td>2.5</td>
<td>590 / 459 / 329</td>
<td>850 / 668 / 590</td>
<td>420 / 290 / 131</td>
</tr>
<tr>
<td>FHA140BVMA</td>
<td>RZFT20CV</td>
<td>RZFR20CV</td>
<td>3 Phase / 380V / 60Hz</td>
<td>7.1</td>
<td>4.0</td>
<td>3.9</td>
<td>590 / 459 / 329</td>
<td>850 / 668 / 590</td>
<td>420 / 290 / 131</td>
</tr>
</tbody>
</table>

### Indoor unit
- **Power consumption**
  - Cooling: 3.09 Wh/Wh
- **Compressor**: 3.09 Wh/Wh
- **Radiator**: 3.09 Wh/Wh
- **Motor output**: 60 kW
- **Micro channel**: 7.1

### Outdoor unit
- **Power consumption**
  - Cooling: 3.09 Wh/Wh
- **Sound**: 3.09 Wh/Wh
- **Power consumption**
  - Cooling: 3.09 Wh/Wh
- **Sound**: 3.09 Wh/Wh

### Machine weight
- **Indoor unit**: 1.2 (Charged for 30 m)
- **Outdoor unit**: 1.2 (Charged for 30 m)

### Dimensions (H / HM / M / ML / L)
- **Indoor unit**: 225 / 200 / 180
- **Outdoor unit**: 205 / 170 / 160

### Specifications
- **Certified Operation range**: CW3
- **Certified Operation range**: CW3
- **Certified Operation range**: CW3

### Notes
- Rated cooling capacities are based on the following conditions: Indoor temp., 35°C/DB, 19°C/MB; outdoor temp., 38°C/DB, 34°C/MB; Equiv. refrigerating piping, 7.5 m (horizontal).
- Capacities are not, including a deduction for cooling for indoor fan motor heat.
- The operation sound is measured in anechoic chamber. If it is measured under the actual installation conditions, it is normally over the set value due to environmental noise and sound reflection.
**SPECIFICATIONS**

### FLOOR STANDING TYPE (1 Phase)

<table>
<thead>
<tr>
<th>Model Name</th>
<th>PFAV19AWMV</th>
<th>PFAV18AWMV</th>
<th>PFAV17AWMV</th>
<th>PFAV16AWMV</th>
<th>PFAV15AWMV</th>
<th>PFAV14AWMV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outdoor unit</td>
<td>RZF10CV1M</td>
<td>RZF10CV1M</td>
<td>RZP11CV1M</td>
<td>RZP12CV1M</td>
<td>RZP125CV1M</td>
<td>RZP140CV1M</td>
</tr>
<tr>
<td>Unit quantity</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Nominal Capacity</td>
<td>980</td>
<td>964</td>
<td>964</td>
<td>966</td>
<td>988</td>
<td>990</td>
</tr>
<tr>
<td>EER</td>
<td>2.51</td>
<td>2.51</td>
<td>2.51</td>
<td>2.51</td>
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<tr>
<td>Machine weight</td>
<td>30</td>
<td>28</td>
<td>26</td>
<td>28</td>
<td>28</td>
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<tr>
<td>Sound (DB)</td>
<td>67</td>
<td>64</td>
<td>62</td>
<td>64</td>
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<td>62</td>
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<tr>
<td>Dimensions (H / M / L)</td>
<td>990 / 918 / 847</td>
<td>990 / 918 / 847</td>
<td>990 / 918 / 847</td>
<td>990 / 918 / 847</td>
<td>990 / 918 / 847</td>
<td>990 / 918 / 847</td>
</tr>
</tbody>
</table>

### Indoor unit

- **Name:** CSPF COP
- **Rated (Min. - Max.)**
- **Cooling Capacity**
- **Indoor unit COP**
- **Indoor unit Dimensions (H / M / L)**
- **Rated (Min. - Max.)**
- **Indoor unit Sound**
- **Indoor unit Machine weight**
- **Indoor unit Dimensions (H / M / L)**
- **Indoor unit Sound**
- **Indoor unit Machine weight**

### Outdoor unit

- **Name:** CSPF COP
- **Rated (Min. - Max.)**
- **Cooling Capacity**
- **Outdoor unit COP**
- **Outdoor unit Dimensions (H / M / L)**
- **Rated (Min. - Max.)**
- **Outdoor unit Sound**
- **Outdoor unit Machine weight**
- **Outdoor unit Dimensions (H / M / L)**
- **Rated (Min. - Max.)**
- **Outdoor unit Sound**
- **Outdoor unit Machine weight**

### FLOOR STANDING TYPE (3 Phase)

<table>
<thead>
<tr>
<th>Model Name</th>
<th>PFAV19AWMV</th>
<th>PFAV18AWMV</th>
<th>PFAV17AWMV</th>
<th>PFAV16AWMV</th>
<th>PFAV15AWMV</th>
<th>PFAV14AWMV</th>
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<tbody>
<tr>
<td>Outdoor unit</td>
<td>RZF10CV1M</td>
<td>RZF10CV1M</td>
<td>RZP11CV1M</td>
<td>RZP12CV1M</td>
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<td>1.90</td>
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<tr>
<td>Machine weight</td>
<td>30</td>
<td>28</td>
<td>26</td>
<td>28</td>
<td>28</td>
<td>26</td>
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<tr>
<td>Sound (DB)</td>
<td>67</td>
<td>64</td>
<td>62</td>
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<tr>
<td>Dimensions (H / M / L)</td>
<td>990 / 918 / 847</td>
<td>990 / 918 / 847</td>
<td>990 / 918 / 847</td>
<td>990 / 918 / 847</td>
<td>990 / 918 / 847</td>
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</tr>
</tbody>
</table>

### Indoor unit

- **Name:** CSPF COP
- **Rated (Min. - Max.)**
- **Cooling Capacity**
- **Indoor unit COP**
- **Indoor unit Dimensions (H / M / L)**
- **Rated (Min. - Max.)**
- **Indoor unit Sound**
- **Indoor unit Machine weight**
- **Indoor unit Dimensions (H / M / L)**
- **Rated (Min. - Max.)**
- **Indoor unit Sound**
- **Indoor unit Machine weight**

### Outdoor unit

- **Name:** CSPF COP
- **Rated (Min. - Max.)**
- **Cooling Capacity**
- **Outdoor unit COP**
- **Outdoor unit Dimensions (H / M / L)**
- **Rated (Min. - Max.)**
- **Outdoor unit Sound**
- **Outdoor unit Machine weight**
- **Outdoor unit Dimensions (H / M / L)**
- **Rated (Min. - Max.)**
- **Outdoor unit Sound**
- **Outdoor unit Machine weight**

### OPTION

### Indoor unit

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

#### 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 column where the relevant row and column intersect. A circle (○) indicates compatibility, and a cross (×) indicates incompatibility. Any options not shown here are not suitable for independent or accessory installation.

#### Round flow 4-way flow

<table>
<thead>
<tr>
<th>Interior installation option</th>
<th>Option panel</th>
<th>Ultra long-life filter unit</th>
<th>Panel spacer</th>
<th>Remote controller</th>
<th>Filter holder</th>
<th>Fresh air intake kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-way branch / unit</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
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<tr>
<td>3-way flow</td>
<td>□</td>
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<td>□</td>
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<tr>
<td>2-way flow</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Fresh air intake kit</td>
<td>□</td>
<td>□</td>
<td>□</td>
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</tbody>
</table>

#### Round flow 2-way flow

<table>
<thead>
<tr>
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<th>Option panel</th>
<th>Ultra long-life filter unit</th>
<th>Panel spacer</th>
<th>Remote controller</th>
<th>Filter holder</th>
<th>Fresh air intake kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-way branch / unit</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
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<tr>
<td>3-way flow</td>
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<tr>
<td>2-way flow</td>
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<tr>
<td>Fresh air intake kit</td>
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<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
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</tbody>
</table>

#### Branch duct connection

<table>
<thead>
<tr>
<th>Interior installation option</th>
<th>Option panel</th>
<th>Ultra long-life filter unit</th>
<th>Panel spacer</th>
<th>Remote controller</th>
<th>Filter holder</th>
<th>Fresh air intake kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-way branch / unit</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
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<tr>
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<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Fresh air intake kit</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
</tbody>
</table>

**Note:**

- When installing designer panel, body height (piping required dimension) is 5 mm higher than standard panels. Designer panels can connect 3-way and 4-way flows.
- Remote controller (BRC16A2) for the auto grille panel is included for lowering and opening functions.
- When installing a grille panel, body height (piping required dimension) is 5 mm higher than standard panels. Connection wiring is not available with this option.
- When installing a 3-way terminal box, two gas outlet connections are closed.
- A dedicated remote controller (BRC16A2) for the auto grille panel is included for lowering and opening functions.
- The volume of fresh air for direct installation type is approximately 1% of the indoor unit airflow.
- A dedicated remote controller (BRC16A2) for the auto grille panel is included for lowering and opening functions.
- The volume of fresh air for direct installation type is approximately 1% of the indoor unit airflow.
- A dedicated remote controller (BRC16A2) for the auto grille panel is included for lowering and opening functions.
### DUCT CONNECTION MIDDLE STATIC PRESSURE TYPE

<table>
<thead>
<tr>
<th>No.</th>
<th>Name of option</th>
<th>Remark</th>
<th>Kit name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>High-efficiency filter¹</td>
<td>65%</td>
<td>KAFP632B80</td>
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<tr>
<td>2</td>
<td>High-efficiency filter¹</td>
<td>30%</td>
<td>KAFP630B80</td>
</tr>
<tr>
<td>3</td>
<td>Filter chamber (rear auxiliary)²</td>
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<td>KAFP632B80</td>
</tr>
<tr>
<td>4</td>
<td>Long-life filter¹</td>
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<td>KAFP630B80</td>
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<td>5</td>
<td>Service panel</td>
<td>White, white</td>
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<td>6</td>
<td>Service panel</td>
<td>Brown</td>
<td>KTBJ25K160W/ KTBJ25K160</td>
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<tr>
<td>7</td>
<td>Air discharge adapter</td>
<td></td>
<td>KDAP55A1A</td>
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<tr>
<td>8</td>
<td>Ceiling plate for static plate</td>
<td></td>
<td>KDAP55A140</td>
</tr>
<tr>
<td>9</td>
<td>Remote controller</td>
<td>Wireless type</td>
<td>BRC4C66</td>
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<tr>
<td>10</td>
<td>Navigation Remote Controller</td>
<td>Wired type</td>
<td>BRC1E63</td>
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<tr>
<td>11</td>
<td>Adaptor for wiring</td>
<td></td>
<td>KRP1BA57</td>
</tr>
<tr>
<td>12</td>
<td>Wiring adaptor for electrical apparatus(2)</td>
<td></td>
<td>KRP1BA54</td>
</tr>
<tr>
<td>13</td>
<td>Mounting plate for PCB</td>
<td></td>
<td>KRP58M51</td>
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<tr>
<td>14</td>
<td>Remote sensor (for indoor temperature)</td>
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<td>KRC501-48 / BRC501A-4</td>
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<tr>
<td>15</td>
<td>Central remote controller</td>
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<td>DC502C61</td>
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<tr>
<td>16</td>
<td>Unified ON/OFF controller</td>
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<tr>
<td>17</td>
<td>Schedule timer</td>
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<td>DC501BA61</td>
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<tr>
<td>18</td>
<td>Intelligent Touch Controller²</td>
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<td>DC501BA61</td>
</tr>
</tbody>
</table>

#### Note:
- ¹Installing high-efficiency filter and long-life filter to the filter, filter chamber is required.
- ²Wiring for wired remote controller should be obtained locally.
- ³Mounting plates are necessary for each adaptor marked.³
- *The indoor unit is equipped standardly with the interface adaptor for SkyAir series. An option is unnecessary.

### CEILING SUSPENDED TYPE

<table>
<thead>
<tr>
<th>No.</th>
<th>Name of option</th>
<th>Remark</th>
<th>Kit name</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Replacement long-life filter</td>
<td>Repair net</td>
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<tr>
<td>2</td>
<td>Fresh air intake kit</td>
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<td>KAFP650A140</td>
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<tr>
<td>3</td>
<td>L-type piping kit (for upward direction)</td>
<td></td>
<td>KRP937A4</td>
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<tr>
<td>4</td>
<td>Remote controller</td>
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<tr>
<td>5</td>
<td>Navigation Remote Controller</td>
<td>Wired type</td>
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<td>7</td>
<td>Unified ON/OFF controller</td>
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<td>8</td>
<td>Schedule timer</td>
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<td>DC501BA61</td>
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<tr>
<td>9</td>
<td>Intelligent Touch Controller²</td>
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<tr>
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<td>Wiring adaptor for electrical apparatus(1)</td>
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<td>KRP1BA54</td>
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<tr>
<td>12</td>
<td>Installation box for adapter PCB</td>
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<td>KRP503A5</td>
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<tr>
<td>13</td>
<td>Ceiling plate for static plate</td>
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<tr>
<td>14</td>
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<td>KRC501-48 / BRC501A-4</td>
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<tr>
<td>15</td>
<td>Electrical box with earth terminal (2 boxes)</td>
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<td>KJB212A8</td>
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</tbody>
</table>

#### Note:
- *Installing long-life filter and fresh air intake kit to the unit, filter chamber is required.
- *Wiring for wired remote controller should be obtained locally.
- *Mounting plates are necessary for each adaptor marked.³
- *The indoor unit is equipped standardly with the interface adaptor for SkyAir series. An option is unnecessary.

### FLOOR STANDING TYPE

<table>
<thead>
<tr>
<th>No.</th>
<th>Name of option</th>
<th>Remark</th>
<th>Kit name</th>
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<tr>
<td>3</td>
<td>L-type piping kit (for upward direction)</td>
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<tr>
<td>4</td>
<td>Remote controller</td>
<td>Wireless type</td>
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<td>5</td>
<td>Navigation Remote Controller</td>
<td>Wired type</td>
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<tr>
<td>6</td>
<td>Central remote controller</td>
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<td>DC502C61</td>
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<tr>
<td>7</td>
<td>Unified ON/OFF controller</td>
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<td>DC501BA61</td>
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<tr>
<td>8</td>
<td>Schedule timer</td>
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<td>DC501BA61</td>
</tr>
<tr>
<td>9</td>
<td>Intelligent Touch Controller²</td>
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<tr>
<td>10</td>
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<tr>
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<td>Wiring adaptor for electrical apparatus(1)</td>
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<td>KRP1BA54</td>
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<tr>
<td>12</td>
<td>Installation box for adapter PCB</td>
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<td>KRP503A5</td>
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<tr>
<td>13</td>
<td>Ceiling plate for static plate</td>
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<tr>
<td>14</td>
<td>Remote sensor (for indoor temperature)</td>
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<td>KRC501-48 / BRC501A-4</td>
</tr>
<tr>
<td>15</td>
<td>Electrical box with earth terminal (2 boxes)</td>
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<td>KJB212A8</td>
</tr>
</tbody>
</table>

#### Note:
- *Installing wired remote controller should be obtained locally.
- *The indoor unit is equipped standardly with the interface adaptor for SkyAir series. An option is unnecessary.
- *Installation box for adapter PCB (KRP1BA54) is necessary.

### WALL MOUNTED TYPE

<table>
<thead>
<tr>
<th>No.</th>
<th>Name of option</th>
<th>Remark</th>
<th>Kit name</th>
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<tr>
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<td>Unified ON/OFF controller</td>
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<td>6</td>
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</tr>
<tr>
<td>7</td>
<td>Intelligent Touch Controller²</td>
<td></td>
<td>DC501BA61</td>
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<tr>
<td>8</td>
<td>Adapter for wiring</td>
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<td>Wiring adaptor for electrical apparatus(2)</td>
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<tr>
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<td>Installation box for adapter PCB</td>
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<td>KRP503A5</td>
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</table>

### FLOOR STANDING TYPE

<table>
<thead>
<tr>
<th>No.</th>
<th>Name of option</th>
<th>Remark</th>
<th>Kit name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Replacement long-life filter</td>
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<td>KAFP630A56</td>
</tr>
<tr>
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<td>Fresh air intake kit</td>
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<td>3</td>
<td>L-type piping kit (for upward direction)</td>
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<td>KRP937A4</td>
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<tr>
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<td>Remote controller</td>
<td>Wireless type</td>
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<td>Wired type</td>
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<tr>
<td>6</td>
<td>Central remote controller</td>
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<td>DC502C61</td>
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<tr>
<td>7</td>
<td>Unified ON/OFF controller</td>
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<td>DC501BA61</td>
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<tr>
<td>8</td>
<td>Schedule timer</td>
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<td>DC501BA61</td>
</tr>
<tr>
<td>9</td>
<td>Intelligent Touch Controller²</td>
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<td>Adapter for wiring</td>
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<td>KRP1BA54</td>
</tr>
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<td>11</td>
<td>Wiring adaptor for electrical apparatus(1)</td>
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<td></td>
<td>KRP503A5</td>
</tr>
<tr>
<td>13</td>
<td>Ceiling plate for static plate</td>
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<td>KDAP55A1A</td>
</tr>
<tr>
<td>14</td>
<td>Remote sensor (for indoor temperature)</td>
<td></td>
<td>KRC501-48 / BRC501A-4</td>
</tr>
<tr>
<td>15</td>
<td>Electrical box with earth terminal (2 boxes)</td>
<td></td>
<td>KJB212A8</td>
</tr>
</tbody>
</table>

#### Note:
- *Installing wired remote controller should be obtained locally.
- *The indoor unit is equipped standardly with the interface adaptor for SkyAir series. An option is unnecessary.
- *Installation box for adapter PCB (KRP1BA54) is necessary.

### Outdoor unit

<table>
<thead>
<tr>
<th>No.</th>
<th>Name of option</th>
<th>Remark</th>
<th>Kit name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Central drain plug</td>
<td></td>
<td>KRP58M51</td>
</tr>
<tr>
<td>2</td>
<td>Fixture for preventing overturning</td>
<td></td>
<td>KRP58M51</td>
</tr>
<tr>
<td>3</td>
<td>Wire fixture for preventing overturning</td>
<td></td>
<td>KRP58M51</td>
</tr>
<tr>
<td>4</td>
<td>Central adaptor</td>
<td></td>
<td>KRP58M51</td>
</tr>
<tr>
<td>5</td>
<td>Overvoltage PCB</td>
<td></td>
<td>KRP58M51</td>
</tr>
</tbody>
</table>

#### Note:
- *Installation box for adapter PCB (KRP58M51) is necessary.
CEILING MOUNTED CASSETTE TYPE / Standard panel with Sensing

[FCF50-71CVM]

INSTALLATION SPACE

- The necessary space is 350 mm or more when the air-outlet is closed to the wall surface. Moreover when the corner area is blocked (both right and left of the blocked air-outlet), the necessary space is 350 mm or more. When the air-outlet is close to the wall surface (both sides of the air-outlet), the recommended space is 2000 mm or more.

1. Sticking location for Manufacturer’s label
Manufacturer’s label for indoor unit: Suction grille inner side’s electric components box’s lid surface. Manufacturer’s label for Decoration panel: Decoration panel’s corner decoration cover inner surface.

2. In case of having option part built-in, please refer outside drawing of option part.
- Fresh air intake kit........................................inspection hole    Need
- In case of having option part built-in, please refer outside drawing of option part.
- Fresh air intake kit........................................inspection hole    Need
- In case of having option part built-in, please refer outside drawing of option part.
- Fresh air intake kit........................................inspection hole    Need
- In case of having option part built-in, please refer outside drawing of option part.
- Fresh air intake kit........................................inspection hole    Need

3. In case of using wireless remote controller, this location will be a signal receiver.
- Refer to the drawing of wireless remote controller in detail.
4. Through the installation is acceptable up to maximum of 910 mm square ceiling opening, keep the clearance of 35mm or less between the indoor unit and the ceiling opening so that the panel overlap allowance can be ensured.
5. When the temperature and humidity in the ceiling exceed 32°C and 60% RH or the fresh air is induced into the ceiling or the unit continues 24 hour operation, an additional insulation (thickness 10mm or more of glasswool or polyethylene foam) is required.
6. Please do not place the thing been damp and troubled under an indoor unit. when the case where humidity is 60% or more, and the air outlet are blocked (both right and left of the blocked air-outlet), the necessary space is 350 mm or more.
7. If put vent hole, lighting, equipment near the air flow disturb equipment, ceiling surface may get dirty, therefore shall install following to diagram as below.

Model
Circulation air flow
Valid
2000 or more
3600 or more
8000 or more
Invalid
1500 or more
5655

Model
Circulation air flow
Valid
2000 or more
3600 or more
8000 or more
Invalid
1500 or more
5655

[FCF100-140CVM]

INSTALLATION SPACE

- The necessary space is 350 mm or more when the air-outlet is closed to the wall surface. Moreover when the corner area is blocked (both right and left of the blocked air-outlet), the necessary space is 350 mm or more. When the air-outlet is close to the wall surface (both sides of the air-outlet), the recommended space is 2000 mm or more.

1. Sticking location for Manufacturer’s label
Manufacturer’s label for indoor unit: Suction grille inner side’s electric components box’s lid surface. Manufacturer’s label for Decoration panel: Decoration panel’s corner decoration cover inner surface.

2. In case of having option part built-in, please refer outside drawing of option part.
- Fresh air intake kit........................................inspection hole    Need
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- Refer to the drawing of wireless remote controller in detail.
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6. Please do not place the thing been damp and troubled under an indoor unit. when the case where humidity is 60% or more, and the air outlet are blocked (both right and left of the blocked air-outlet), the necessary space is 350 mm or more.
7. If put vent hole, lighting, equipment near the air flow disturb equipment, ceiling surface may get dirty, therefore shall install following to diagram as below.

Model
Circulation air flow
Valid
2000 or more
3600 or more
8000 or more
Invalid
1500 or more
5655

Model
Circulation air flow
Valid
2000 or more
3600 or more
8000 or more
Invalid
1500 or more
5655
When using the wireless remote controller, the position will be a signal receiver. Refer to the drawing of wireless remote controller in detail. 

Notes:
1) Location of unit’s Name Plate: Bottom of fan housing inside the suction grille.
2) Please do not place the unit in high spaces or under an indoor unit. When the case where humidity is 60% or more, and the drain outlet are choked up and the air filter are dirty, dew may fall.
3) In case of using wireless remote controller, this position will be a signal receiver. Refer to the drawing of wireless remote controller in detail.
4) *Please do not place the thing been damp and troubled under an indoor unit.

For height installation
From the floor side 2500 or more

Communication position of fresh air intake kit
Position relative to being cut in pipe back

Notes:
1) Location of unit’s Name Plate: Bottom of fan housing inside the suction grille.
2) In case of using wireless remote controller, this position will be a signal receiver. Refer to the drawing of wireless remote controller in detail.
3) Please do not place the thing been damp and troubled under an indoor unit.

When the case where humidity is 80% or more, and the drain outlet are choked up and the air filter are dirty, dew may fall.

Please do not place the thing been damp and troubled under an indoor unit.
**Notes:**

1. Location of unit's of Name Plate Right side surface of casing
2. In case of using wireless remote controller, this position will be a signal receiver. Refer to the drawing of wireless remote controller in detail.
3. Please do not place the thing been damp and troubled under an indoor unit. when the case where humidity is 80% or more, the drain outlet are choked up and the air filter are dirty, dew may fall.
4. Drains pipe connection 4 holes for anchor bolts
5. Piping and wiring intake
6. Accessory
7. Please do not place the thing been damp and troubled under an indoor unit. when the case where humidity is 80% or more, the drain outlet are choked up and the air filter are dirty, dew may fall.
8. Drain pipe connection (126x130 oblong slit hole)
9. Piping hole (bottom) (80x130 oblong slit hole)
10. Gas pipe stop vale
11. Eject pipe connection
12. Earth terminal
13. Drain hose
14. Gas pipe
15. Liquid pipe
16. Fixtures for preventing overturning
17. Box cover, inside the suction grille.

OUTDOOR UNIT // RZF50/60/71CVM

- **Air suction grille**
- **Piping**
- **Liquid pipe**
- **Drain hole (bottom) (27 slit hole)**
- **Gas pipe**
- **Drain pipe connection (70x90 mm oblong holes)**
- **Hole for piping (   27 slit hole)**
- **Hole for piping (   80 slit hole)**
- **Hole for anchor bolts**
- **Wiring inlet**
- **Hole for piping (   80 slit hole)**
- **Hole for anchor bolts**
- **Wiring inlet**
- **Hole for piping (   27 slit hole)**
- **Piping hole (rear)**
- **Piping hole (bottom)**
- **Service port**
- **Service port**
- **I.D.O 18 hose for connection**
- **Water supply inlet**
- **Wiring inlet**
- **Earth terminal**
- **Drain pipe connection**
- **Drain pipe connection**

**DIMENSIONS (Unit: mm)**

**WALL MOUNTED TYPE**

- **[FAA100BVMV]**
- **[FVA100-140AMVM]**

**FLOOR STANDING TYPE**

- **[FVA50-71AMVM]**
- **OUTDOOR UNIT // RZF50/60/71CVM**
**MEMO**

**Installation service space for outdoor unit** (Unit: mm)

- **For RZF50-140CVM, RZF71-140CYM series**
  - **1.** When there is an obstruction on the inlet side
    - **1) When the overhead space is open**
      - 1. For single unit installation
        - When there is an obstruction on the inlet side
          - [Diagram]
        - When there are obstructions on both sides
          - [Diagram]
      - 2. For multiple units installation (more than two units)
        - When there are obstructions on both sides
          - [Diagram]

    - **2) When there is an obstruction in the overhead space**
      - 1. For single unit installation
        - When there is an obstruction on the inlet side
          - [Diagram]
        - When there are obstructions on the inlet and both lateral sides
          - [Diagram]
      - 2. For multiple units installation (more than two units)
        - An obstruction in the overhead space
          - [Diagram]

- **When there are obstructions on both the inlet and outlet sides**
  - (When the obstruction on the outlet side is higher than the unit itself)

    - **1) When the overhead space is open**
      - 1. For single unit installation
        - An obstruction in the overhead space
          - [Diagram]
    - 2. For series installation (more than two units)
      - 1. For single unit installation
        - An obstruction in the overhead space
          - [Diagram]

  - **Note:** For other patterns of installation, please refer to Installation manual or Engineering Data Book.