Cautions on product corrosion

1. Air conditioners should not be installed in areas where corrosive gases, such as acid gas or alkaline gas, are produced.
2. If the outdoor unit is to be installed close to the sea shore, direct exposure to the sea breeze should be avoided. If you need to install the outdoor unit close to the sea shore, contact your local distributor.
Circulation Airflow Evenly Distributes Cool Air

1. Blows horizontally

2. Strikes the wall

3. Reaches every corner of the room

Direct Airflow / Draft prevention function

Circulation Airflow

Indoor unit lineup

Ceiling Mounted Cassette (Round Flow with Sensing) Type
- FXFSQ25AVM / FXFSQ32AVM
- FXFSQ40AVM / FXFSQ50AVM
- FXFSQ63AVM / FXFSQ80AVM
- FXFSQ100AVM / FXFSQ125AVM
- FXFSQ140AVM

Panel variations (Option)

- Standard panel with sensing BYCQ125EEF (Fresh White)
- Standard panel with sensing BYCQ125EEK (Black)

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

Indoor unit lineup

Standard panel
- Fresh White -
- Black -

FXFSQ25AVM / FXFSQ32AVM
FXFSQ40AVM / FXFSQ50AVM
FXFSQ63AVM / FXFSQ80AVM
FXFSQ100AVM / FXFSQ125AVM
FXFSQ140AVM

Panel variations (Option)

- Standard panel with sensing BYCQ125EEF (Fresh White)
- Standard panel with sensing BYCQ125EEK (Black)

The illustration shows typical airflow.
Comfort and Energy Saving by Sensing Functions

Daikin Advanced Sensing Technology

Infrared presence sensor
The 4 sensors detect human presence.

<table>
<thead>
<tr>
<th>Ceiling height</th>
<th>Detection range (diameter)</th>
<th>OP-8505</th>
<th>OP-8510</th>
<th>OP-8515</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.7m</td>
<td>approx. 8.5m</td>
<td>12.7m</td>
<td>14.0m</td>
<td>17.3m</td>
</tr>
<tr>
<td>3.5m</td>
<td>approx. 11.5m</td>
<td>13.5m</td>
<td>15.0m</td>
<td>18.5m</td>
</tr>
<tr>
<td>4.0m</td>
<td>approx. 13.5m</td>
<td>15.0m</td>
<td>16.5m</td>
<td>20.0m</td>
</tr>
</tbody>
</table>

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)</th>
<th>OP-8505</th>
<th>OP-8510</th>
<th>OP-8515</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.7m</td>
<td>approx. 11m</td>
<td>13.5m</td>
<td>15.0m</td>
<td>18.5m</td>
</tr>
<tr>
<td>3.5m</td>
<td>approx. 14m</td>
<td>15.0m</td>
<td>16.5m</td>
<td>20.0m</td>
</tr>
<tr>
<td>4.0m</td>
<td>approx. 16m</td>
<td>15.0m</td>
<td>16.5m</td>
<td>20.0m</td>
</tr>
</tbody>
</table>

Various sensing functions

Sensing sensor mode (default: OFF)

- Sensing sensor low mode

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

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

Operation is reduced in places where there are no people.

Example:
- Cooling setpoint: 26°C
- Shift temperature: 1°C
- Limit cooling temperature: 30°C
- Shift time: 30 min.
- Limit cooling temperature: 16°C

Sensing sensor stop mode (default: OFF)

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

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

Sensing sensor stop mode (default: OFF)

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

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

Auto airflow function

- Heating
  - Direct Airflow
  - Draft prevention function

Draft prevention function

When human presence is not detected.

- Cooling
  - Auto airflow function

Auto airflow function

- Draft prevention function

*Airflow direction should be set to “Auto”.

Floor temperature is detected and over cooling prevented.

- Cooling

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.

- Heating

Uncomfortable draft occurs, because air is blown downward.

The floor temperature, which is lower than near the ceiling, is detected. Automatic control using the temperature near the person is the room temperature.

Energy savings

- Cooling
  - Feet are kept warm and comfortable while reducing uncomfortable drafts.

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

Energy savings

*1. Applicable when wired remote controller BR1E03 is used.
**Circulation Airflow**

**Cooling**

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

*4-way horizontal flow*
- Airflow effectively avoids blowing air directly on people.
- Cool air moves down along the walls and to every corner of the room.

*2-way horizontal flow*
- Airflow quickly makes the entire room warm and comfortable.
- Warmth reliably reaches feet.

**Heating**

Circulation airflow warms the entire room starting from your feet.

*4-way horizontal flow*
- Airflow effectively avoids blowing air directly on people.
- Warm air near windows and walls.

*2-way horizontal flow*
- Airflow quickly makes the entire room warm and comfortable.
- Warmth reliably reaches feet.

**Comfort to the entire room with even temperatures and no cold air pockets at floor level**

During 2-way horizontal flow
- Airflow warms areas around walls using 4-way down flow.
- Airflow cools areas around walls using 2-way horizontal flow.

*New wide flap*
- Area is sufficiently maintained.

*Optimizing airflow angle (Horizontally)*

Even with the flap angle raised, a sufficient airflow route is maintained to realize a more horizontal airflow angle.

*Conventional flap*
- 30° air direction
- When set to 20°, the airflow route gets narrow.

*New wide flap*
- A more horizontal 20° airflow route is realized.

*Increased velocity in 2-way flow (Strong)*

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

*Conventional flap*
- 10% increase!

*New wide flap*
- 10% increase!

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

**Three technologies that achieved circulation airflow**

1. Use of new wide flaps (Straight)
   - Compared to conventional models, the new wide flap increases straightness of the airflow, so coverage is approximately doubled.

2. Optimizing airflow angle (Horizontally)
   - *FxQ-S model*
     - 30° air direction
     - When set to 20°, the airflow route gets narrow.

3. Increased velocity in 2-way flow (Strong)
   - Velocity increased by making 2-way flow. Powerful airflow was realized.

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

*1. Applicable when wired remote controller BRC-1E63 is used.
2. Not applicable when using individual airflow direction control.*
Individual Airflow Direction Control*1

Comfortable air conditioning for all room layouts and conditions

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

Easy setting is possible with a wired remote controller.

- Position 0 (Fixed airflow to highest position)
- No individual setting (Auto airflow)
- Position 4 (Fixed airflow to the lowest position)
- Swing

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 offices
- Discussions near a hot window: Cold air blowing directly on people
- Discussions also go smoothly.

For shops and restaurant
- Sitting here is hot because of the hot air from outside.
- The seats here are comfortable.

Comfortable airflow
- Indoor unit offers 360° airflow discharges air in all directions with more uniform temperature distribution.

Dead spot of airflow
- There are areas of uneven temperature.

Example of airflow patterns
- All-round flow is available, as well as 2-way to 4-way flows, so you can choose the most suitable airflow pattern depending on location or room layout.

Easy installation
- Drain pump is equipped as a standard accessory with a 850 mm lift.

Easy maintenance
- Internal hygiene can be easily checked without removing the whole panel. Simply opening the suction panel allows the internal drain pan to be checked.

- 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.

- An antibacterial treatment that uses silver ions has been applied to the drain pan, preventing the growth of slimes, mould and bacteria that cause blockages and odours. (The lifespan of a silver ion cartridge depends on the usage environment, but should be changed once every two to three years.)

- The air filter has an anti-mould and antibacterial treatment that prevents the growth of mould generated from dust or moisture that may adhere to the filter.

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

Control of the airflow rate can be selected from 5-step control and Auto.

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

**Ceiling Mounted Cassette (Round Flow with Sensing) Type**

<table>
<thead>
<tr>
<th>Power supply</th>
<th>Power consumption</th>
<th>Sound level</th>
<th>Cooling capacity</th>
<th>Heating capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model</strong></td>
<td><strong>kW/FXFSQ25AVM</strong></td>
<td><strong>dB(A)</strong></td>
<td><strong>m3/min</strong></td>
<td><strong>Btu/h</strong></td>
</tr>
<tr>
<td></td>
<td><strong>2.4</strong></td>
<td><strong>40</strong></td>
<td><strong>1,800</strong></td>
<td><strong>10,900</strong></td>
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<tr>
<td></td>
<td><strong>3.1</strong></td>
<td><strong>41</strong></td>
<td><strong>2,200</strong></td>
<td><strong>13,600</strong></td>
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<tr>
<td></td>
<td><strong>3.9</strong></td>
<td><strong>42</strong></td>
<td><strong>2,800</strong></td>
<td><strong>17,100</strong></td>
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<tr>
<td></td>
<td><strong>4.9</strong></td>
<td><strong>47</strong></td>
<td><strong>3,100</strong></td>
<td><strong>21,500</strong></td>
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<td></td>
<td><strong>5.9</strong></td>
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<td><strong>3,600</strong></td>
<td><strong>27,300</strong></td>
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<td></td>
<td><strong>7.0</strong></td>
<td><strong>54</strong></td>
<td><strong>4,400</strong></td>
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<td><strong>8.1</strong></td>
<td><strong>58</strong></td>
<td><strong>5,200</strong></td>
<td><strong>42,700</strong></td>
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<td></td>
<td><strong>9.4</strong></td>
<td><strong>62</strong></td>
<td><strong>6,100</strong></td>
<td><strong>54,600</strong></td>
</tr>
</tbody>
</table>

**Note:** Specifications are based on the following conditions:
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.

### Option List

<table>
<thead>
<tr>
<th>No.</th>
<th>Item</th>
<th>Type</th>
<th>FXFSQ25AVM</th>
<th>FXFSQ32AVM</th>
<th>FXFSQ40AVM</th>
<th>FXFSQ50AVM</th>
<th>FXFSQ63AVM</th>
<th>FXFSQ80AVM</th>
<th>FXFSQ100AVM</th>
<th>FXFSQ125AVM</th>
<th>FXFSQ140AVM</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Decorator panel</td>
<td>Standard panel</td>
<td>Fresh white</td>
<td>Black</td>
<td>Fresh white</td>
<td>Black</td>
<td>Fresh white</td>
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<td>Fresh white</td>
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<td>2</td>
<td>Sealing material of air discharge outlet</td>
<td>2 Outlet</td>
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<td>3</td>
<td>Panel speaker</td>
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<td>4</td>
<td>Fresh air intake kit</td>
<td>Chamber type</td>
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<td>High-efficiency filter unit</td>
<td>chamber type</td>
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<td>7</td>
<td>Panel spacer</td>
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<td>9</td>
<td>Chamber type</td>
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<td>10</td>
<td>Replacement a fresh air intake kit</td>
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<td>11</td>
<td>Branch duct chamber</td>
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<td>12</td>
<td>Insulation kit for high humidity</td>
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<td>13</td>
<td>Remote controller</td>
<td>Wireless remote</td>
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<td>14</td>
<td>Remote sensor for air discharge outlet</td>
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<td>15</td>
<td>Wiring requirements for electrical appendix</td>
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<tr>
<td>16</td>
<td>Installation box for adaptor PCB</td>
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<tr>
<td>17</td>
<td>Remote sensor for indoor temperature</td>
<td></td>
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</tr>
</tbody>
</table>

**Note:**
- Specifications are based on the following conditions:
- Airflow rate (HH/HM/L/ML): 1.8/1.6/1.4/1.2 m3/min.
- Sound level: Anechoic chamber conversion value, measured at a point 0.5 m downward from the unit centre.
- Operating sound and may also influence temperature sensing.
- During actual operation, these values are normally somewhat higher as a result of ambient conditions.

---

**Note:**
- Specifications are based on the following conditions:
- During actual operation, these values are normally somewhat higher as a result of ambient conditions.
- Operating sound and may also influence temperature sensing.
- Please use in case temperature/humidity inside ceiling may get over 30˚C, 80% RH.
- Please order using the names of both components instead of set name.
- The chamber type is recommended when more fresh air is necessary.
- Please order using the names of both components instead of set name.
- Please use in case temperature/humidity inside ceiling may get over 30˚C, 80% RH.
- Installation box for adaptor PCB is necessary.
Air conditioners should not be installed in areas where corrosive gases, such as acid gas or alkaline gas, are produced.

If the outdoor unit is to be installed close to the sea shore, direct exposure to the sea breeze should be avoided. If you need to install the outdoor unit close to the sea shore, contact your local distributor.

Cautions on product corrosion
1. Air conditioners should not be installed in areas where corrosive gases, such as acid gas or alkaline gas, are produced.
2. If the outdoor unit is to be installed close to the sea shore, direct exposure to the sea breeze should be avoided. If you need to install the outdoor unit close to the sea shore, contact your local distributor.

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

If you have any enquiries, please contact your local importer, distributor and/or retailer.