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**VRV SYSTEM****Air Conditioners**

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## MODELS

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

FXFQ25SVM

FXFQ63SVM

FXFQ32SVM

FXFQ80SVM

FXFQ40SVM

FXFQ100SVM

FXFQ50SVM

FXFQ125SVM

Thank you for purchasing this product. Carefully read this operation manual to ensure proper operation. As this operation manual is dedicated for the indoor unit, refer to also the operation manuals attached to the outdoor unit and the remote controller. After reading the manual, file it away for future reference.

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## 1. SAFETY PRECAUTIONS

To gain full advantage of the air conditioner's functions and to avoid malfunction due to mishandling, please read this operation manual carefully before use.

This air conditioner comes under the term "appliances not accessible to the general public".

- **This manual classifies the precautions into WARNINGS and CAUTIONS.**  
Be sure to follow all the precautions below: They are all important for ensuring safety.

 **WARNING** .....Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

 **CAUTION** .....Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

- **After reading, keep this manual in a convenient place so that you can refer to it whenever necessary. If the equipment is transferred to a new user, be sure also to hand over the manual.**

 **WARNING** \_\_\_\_\_

**Be aware that prolonged, direct exposure to cool or warm air from the air conditioner, or to air that is too cool or too warm can be harmful to your physical condition and health.**

**When the air conditioner is malfunctioning (giving off a burning odor, etc.), turn off the power to the air conditioner and contact your local dealer.**

Continued operation under such circumstances may result in a failure, electric shocks or a fire.

**Consult your local dealer about installation work.**  
Doing the work yourself may result in water leakage, electric shocks or a fire.

**Consult your local dealer regarding modification, repair and maintenance of the air conditioner.**  
Improper workmanship may result in water leakage, electric shocks or a fire.

**Do not place objects, including rods, your fingers, etc., in the air inlet or outlet.**  
Injury may result due to contact with the air conditioner's high-speed fan blades.

### **Beware of a fire in case of refrigerant leakage.**

If the air conditioner is not operating correctly, i.e. not generating cool or warm air, refrigerant leakage could be the cause. Consult your local dealer for assistance. The refrigerant used for the air conditioner is safe and normally does not leak. However, if the refrigerant leaks and gets in contact with a naked burner, heater or cooker, it may generate hazardous compounds. Turn off the air conditioner and call your local dealer. Turn on the air conditioner after the qualified service person makes sure to confirm that the leakage is repaired.

### **Consult your local dealer regarding what to do in case of refrigerant leakage.**

When the air conditioner is installed in a small room, it is necessary to take proper measures so that the amount of any leaked refrigerant does not exceed the concentration limit in the event of a leakage. Otherwise, this may lead to an accident due to oxygen depletion.

### **Contact professional personnel about attachment of accessories and be sure to use only accessories specified by the manufacturer.**

If a defect results from your own workmanship, it may result in water leakage, electric shocks or a fire.

### **Consult your local dealer regarding relocation and reinstallation of the air conditioner.**

Improper installation work may result in leakage, electric shocks or a fire.

### **Be sure to use fuses with the correct ampere reading.**

Do not use improper fuses, copper or other wiring as a substitute, as this may result in electric shocks, a fire injury or damage to the air conditioner.

### **Be sure to earth the air conditioner.**

Do not earth the unit to a utility piping, lightning conductor or telephone earth lead.

Imperfect earthing may result in electric shocks or a fire. A high surge current from lightning or other sources may cause damage to the air conditioner.

### **Be sure to install an earth leakage breaker.**

Failure to install an earth leakage breaker may result in electric shocks or a fire.

### **Consult your local dealer if the air conditioner submerges owing to a natural disaster, such as a flood or typhoon.**

Do not operate the air conditioner in that case, or otherwise malfunction, electric shocks, or a fire may result.

### **Start or stop the air conditioner with the remote controller. Never use the power circuit breaker for this purpose.**

Otherwise, it may cause a fire or water leakage. Furthermore, if an automatic restart control is provided against power failure and the power is recovered, the fan will rotate suddenly and may cause injury.

### **Do not use the air conditioner in the atmosphere contaminated with oil vapor, such as cooking oil or machine oil vapor.**

Oil vapor may cause crack damage to the air conditioner, electric shocks, or a fire.

### **Do not use the air conditioner in places with excessive oily smoke, such as cooking rooms, or in places with flammable gas, corrosive gas, or metal dust.**

Using the air conditioner in such places may cause a fire or air conditioner failures.

**Do not use flammable materials (e.g., hairspray or insecticide) near the air conditioner.**

**Do not clean the air conditioner with organic solvents such as paint thinner.**

The use of organic solvents may cause crack damage to the air conditioner, electric shocks, or a fire.

**Be sure to use a dedicated power supply for the air conditioner.**

The use of any other power supply may cause heat generation, a fire, or air conditioner failures.

**Consult your local dealer regarding cleaning the inside of the air conditioner.**

Improper cleaning may cause breakage of plastic parts, water leakage and other damage as well as electric shocks.



#### CAUTION

**Do not use the air conditioner for purposes other than those for which it is intended.**

Do not use the air conditioner for cooling precision instruments, food, plants, animals or works of art as this may adversely affect the performance, quality and/or longevity of the object concerned.

**Do not remove the outdoor unit's outlet side grille.**

The guard protects against the unit's high-speed fan, which may cause injury.

**To avoid oxygen deficiency, ensure that the room is adequately ventilated if equipment such as a burner is used together with the air conditioner.**

**Do not place flammable sprays or operate spray containers near the air conditioner as this may result in a fire.**

**Do not put flammable containers, such as spray cans, within 1 m from the air outlet.**

The containers may explode because the warm air from the indoor or outdoor unit will affect them.

**Before cleaning, be sure to stop the air conditioner operation, turn the power circuit breaker off.**

Otherwise, an electric shocks and injury may result.

**To avoid electric shocks, do not operate with wet hands.**

**Do not place objects that are susceptible to moisture directly beneath the indoor or outdoor units.**

Under certain conditions, condensation on the unit or refrigerant piping, air filter dirt or drain blockage may cause dripping, resulting in fouling or failure of the object concerned.

**Do not place appliances that produce naked flames in places exposed to the airflow from the air conditioner as this may impair combustion of the burner.**

**Do not place heaters directly below the indoor unit, as resulting heat can cause deformation.**

**Do not allow a child to mount on the outdoor unit or avoid placing any object on it.**

Falling or tumbling may result in injury.

**Be sure that children, plants or animals are not exposed directly to airflow from the indoor unit, as adverse effects may ensue.**

**Do not wash the air conditioner with water, as this may result in electric shocks or a fire.**

**Do not place water containers (flower vases, etc.) on the indoor unit, as this may result in electric shocks or a fire.**

**Do not install the air conditioner at any place where there is a danger of flammable gas leakage.**

In the event of a gas leakage, build-up of gas near the air conditioner may result in a fire.

**Carry out drain piping properly to ensure complete drainage.**

If drain piping is not carried out properly, drain will not flow out. Then, dirt and debris may be accumulated in the drain piping and may cause water leakage. If it occurs, stop the air conditioner and call your local dealer for assistance.

**The appliance is not intended for use by unattended young children or persons who are incompetent to operate air conditioners.**

It may result in injury or electric shocks.

**Children should be watched so that they do not play with the indoor unit or its remote controller.**

Accidental operation by a child may result in injury or electric shocks.

**To avoid injury, do not touch the air inlet or aluminum fins of the air conditioner.**

**Do not place objects in direct proximity of the outdoor unit and do not let leaves and other debris accumulate around the unit.**

Leaves are a hotbed for small animals which can enter the unit. Once in the unit, such animals can cause malfunctions, smoke or a fire when making contact with electrical parts.

**Do not block air inlets nor outlets.**

Impaired airflow may result in insufficient performance or trouble.

**Do not let children play on or around the outdoor unit.**

If they touch the unit carelessly, injury may be caused.

**Turn off the power when the air conditioner is not used for long periods of time.**

Otherwise, the air conditioner may get hot or catch on a fire due to dust accumulation.

**Never touch the internal parts of the remote controller.**

Do not remove the front panel. Touching certain internal parts will cause electric shocks and damage to the remote controller. Please consult your local dealer about checking and adjustment of internal parts.

**Do not leave the remote controller wherever there is a risk of wetting.**

If water gets into the remote controller there is a risk of electrical leakage and damage to electronic components.

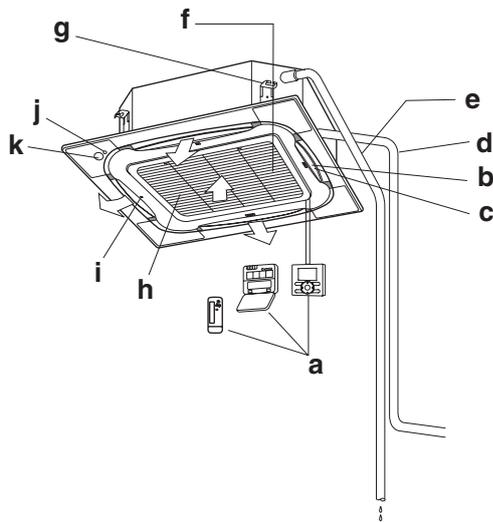
**Watch your steps at the time of air filter cleaning or inspection.**

High-place work is required, to which utmost attention must be paid.

If the scaffold is unstable, you may fall or topple down, thus causing injury.

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## 2. NAMES AND FUNCTIONS OF PARTS



<b>a</b>	Remote controller (optional accessory) The remote controller may not be needed depending on the system configuration.
<b>b</b>	Air outlet
<b>c</b>	Horizontal blade (inside air outlet)
<b>d</b>	Refrigerant piping Transmission wiring Earth wiring (Note) (Note) It is a wiring to let electricity flow from the indoor unit to the earth for prevention of electric shocks or a fire in case of emergency. Power supply wiring
<b>e</b>	Drain piping
<b>f</b>	Air filter (inside suction grille) (Refer to “3. MAINTENANCE” on page 3)
<b>g</b>	Drain device (built-in) It drains moisture in the room removed during the cooling operation.
<b>h</b>	Suction grille (Refer to “3. MAINTENANCE” on page 3)
<b>i</b>	Air outlet identification mark (□, □□, □□□, □□□□) Use this mark as a reference for setting the airflow direction. (only for BRC1E62)
<b>j</b>	Infrared floor sensor It detects the average temperature of the floor surface.
<b>k</b>	Infrared presence sensor It detects whether or not someone is there by means of four sensors corresponding to each air outlet.

## 3. MAINTENANCE (FOR SERVICE PERSONNEL)

**ONLY A QUALIFIED SERVICE PERSONNEL IS ALLOWED TO PERFORM MAINTENANCE**

### ⚠ WARNING

- Do not use flammable gas (such as hair sprays and insecticides) near the air conditioner.
- Do not wipe the air conditioner with benzine or thinner.  
It may cause cracks, electric shocks or a fire.
- Never put your fingers or rods in the air inlet, air outlet or horizontal blade.  
The fan is rotating at high speed, so you would get injured.

### ⚠ CAUTION

- Do not wash the air conditioner with water.  
It may cause electric shocks or a fire due to leakage.
- Make sure to turn off the air conditioner when taking care of the air conditioner and disconnect the power supply breaker.  
Unless the power supply is disconnected, it may cause electric shocks and injuries.
- When working at a high place, give caution to your footing.  
If the scaffold is unstable, it may cause injuries due to fall and stumbling.

### NOTE

- Do not remove the air filter unless for cleaning.  
It may cause failure.
- Do not attach substance (such as paper towels) other than the specified air filter to the air inlet.  
The performance may drop and cause freeze-up/water leakage.

### HOW TO CLEAN THE AIR FILTER

When the remote controller indicates “” or “Time to clean filter”, clean the air filter.

- It indicates after running for a certain time.

### NOTE

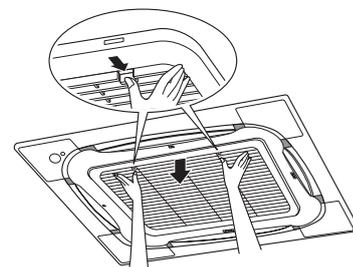
- You may change the time of indication “” or “Time to clean filter”.  
**If the unit is used in a space where the air is more contaminated, ask your local dealer for solution.**

Contamination	Time until indication is displayed
Normal	2,500 hours (equivalent to one year)
More contaminated	1,250 hours (equivalent to a half year)

- If it becomes difficult to remove contamination from the air filter, replace the air filter.  
(Air filter for replacement is an optional accessory)

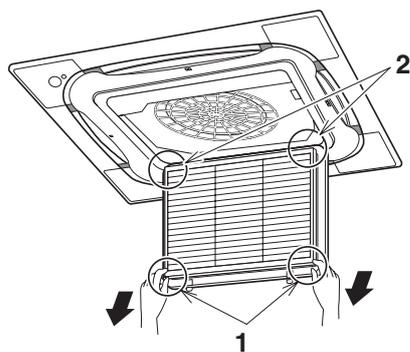
### 1. Open the suction grille.

Simultaneously press the two knobs, slowly down the suction grille.

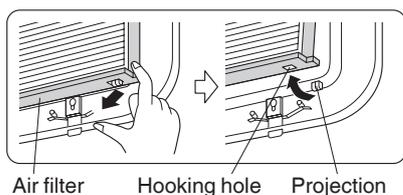


## 2. Take out the air filter.

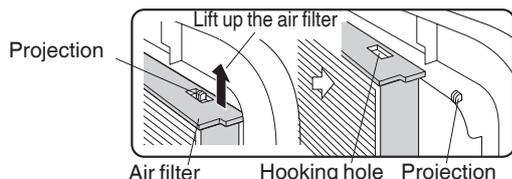
Carry out the work in the order mentioned below.



- 1 Pull the air filter end inclined downward and unhook the hooking hole of the air filter from the projection of the grille. (both right and left)



- 2 Lift the air filter and unhook the hooking hole of the air filter from the projection at the grille upper part. (both left and right)



## 3. Clean the filter.

Clean the contamination with a vacuum cleaner or wash it with water.

If the air filter is extremely contaminated, wash it with neutral detergent using a soft brush.



After dewatering, dry the air filter in the shade.

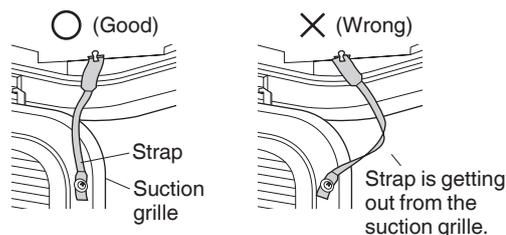
## NOTE

- Do not wash the air filter with water of 50°C or higher. It may cause decolorization and deformation.
  - Do not heat the filter with a fire. It may cause burning.
4. **Attach the air filter.**
    - Attach the air filter in the reverse order mentioned in the clause 2.
  5. **Close the suction grille.**

Slowly lift the suction grille, and finally, securely fasten it to the main body of the decoration panel, while pressing the two knobs.

## NOTE

- The straps may be caught when the suction grille is closed. Before closing the suction grille, ensure that the straps are not getting out from the side of the suction grille.



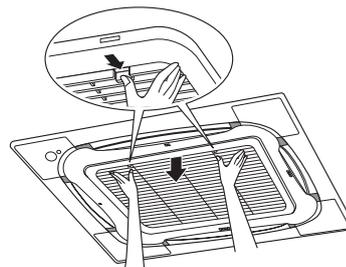
6. **Turn off the indication “” or “Time to clean filter” displayed on the remote controller after turning on the power.**

- For remote controller other than BRC1E type, press the filter sign reset button “” on the remote controller to turn off the indication. When using BRC1E type, refer to the operation manual attached to the remote controller.
- The indication can be turned off whether in operation or at stop.

## HOW TO CLEAN THE SUCTION GRILLE

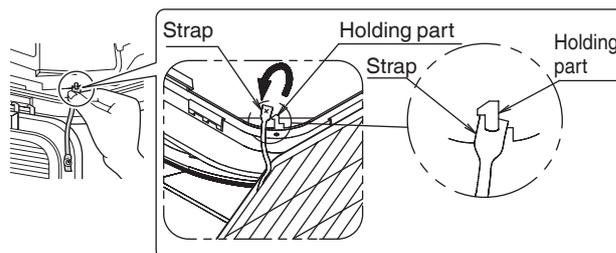
### 1. Open the suction grille.

Simultaneously press the two knobs, slowly down the suction grille.



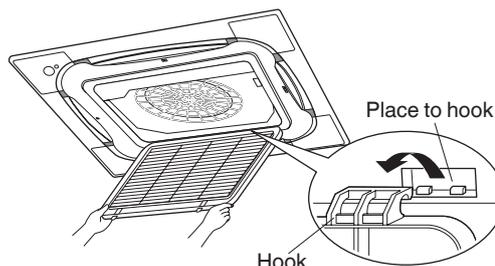
### 2. Remove the straps of the suction grille.

Remove the two straps from the holding parts on the panel main body to which the straps are attached.



### 3. Remove the suction grille.

Open the suction grille 45° and lift it. Then, unhook it from the place to hook. (3 places)

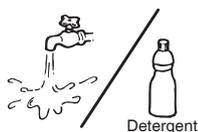


### 4. Take out the air filter.

Refer to clause 2 for “HOW TO CLEAN THE AIR FILTER”. (Page. 4)

#### 5. Clean the suction grille.

Wash the suction grille with neutral detergent using a soft brush and then dewater.



When the suction grille is extremely contaminated

- Spray the detergent for a ventilating fans and ranges directly to the suction grille, and keep it under that condition for about 10 minutes.

After that, carefully wash the suction grille with water.

#### NOTE

- **Do not wash the suction grille with water of 50°C or higher.**  
It may cause discoloration and deformation.
- **When drying the suction grille, do not heat it with fire.**  
It may cause burning.

#### 6. Attach the air filter.

Refer to clause 4 for “HOW TO CLEAN THE AIR FILTER”. (Page. 4)

#### 7. Attach the suction grille.

Attach the suction grille in the reverse order mentioned in the clause 3.

#### 8. Attach the straps of the suction grille.

Attach the straps in the reverse order mentioned in the clause 2.

#### 9. Close the suction grille.

Refer to clause 5 for “HOW TO CLEAN THE AIR FILTER”. (Page. 4)

#### HOW TO CLEAN AIR OUTLET, SUCTION GRILLE, THE EXTERIOR AND REMOTE CONTROLLER

- Wipe them with a dry soft cloth.
- When the stain cannot be wiped off, dip the cloth in the neutral detergent diluted with water and twist the cloth.  
After wiping off stain with this cloth, wipe them with dry cloth.

#### NOTE

- **Do not use such as gasoline, benzene, thinner, polishing powder and liquid insecticide sold in the market.**  
It may cause discoloration and deformation.
- **Do not wash them with water of 50°C or higher.**  
It may cause discoloration and deformation.
- **Be careful not to damage the sensor surface.**  
The sensors, if damaged, may not provide correct sensing performance.



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