

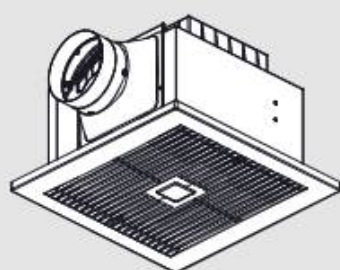
INSTALLATION AND OPERATION INSTRUCTIONS

Ventilating Fan

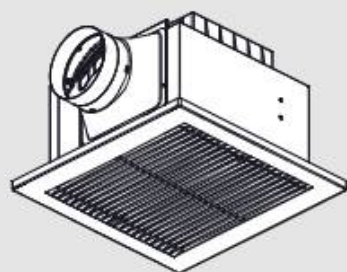
Model No. **FV-24JR4**
FV-24JA4

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FV-24JR4



FV-24JA4

Warranty card attached

Thank you for purchasing this Panasonic product.

Please read these instructions carefully before attempting to install, operate or service the Panasonic product. Please carefully read "INSTALLATION INSTRUCTIONS" (P.2~3) of this instructions before installation. Failure to comply with instructions could result in personal injury or property damage. Please explain to users how to operate and maintain the product after installation, and this booklet should be presented to users. Please carefully read "USE AND MAINTENANCE INSTRUCTIONS" (P.13) of this instructions before operation.

Please retain this booklet for future reference.

Make sure that the correct information is written on the warranty card, including the date of purchase and the name of the distributor. Keep the warranty card in a safe place along with the instructions for future reference.

- Disconnect power supply before maintenance.
- If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.
- This appliance is not intended for use by persons (Including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

The following instructions should be strictly observed in order to prevent injury to the users and other people, or damage to property.

- The degrees of injury or damage that can be occurred when the instructions are ignored and if the product is not used properly have been classified and described by the following indications.



WARNING

This indication means: Must be treated seriously that this may result in death or serious injury.



CAUTION

This indication means: Must be treated seriously that this may result in injury or physical damage.

- Types of instructions that should be observed have been classified and described by the following pictorial symbols.



This symbol indicates the item is "PROHIBITED" to do.



This symbol indicates the "COMPULSORY" item that must be followed without failure.

INSTALLATION INSTRUCTIONS



WARNING

- The product must be grounded.



Otherwise, it may cause electric shock when there is any trouble or electric leakage.

- Use a device for disconnection from the supply, which having a contact separation of at least 3 mm in all poles (Switch), which must be incorporated in the fixed wiring in accordance with the local electrical wiring rules (Only for FV-24JA4).



Otherwise, it may cause a short circuit, thus resulting in a fire.

- Do not operate the product other than the rated voltage.



Otherwise, it may cause damages to the product or a fire.

- Exhaust fans may adversely affect the safe operation of appliances burning gas or other fuels (including those in other rooms) due to back flow of combustion gases. These gases can potentially result in carbon monoxide poisoning. After installation of an exhaust fan such as a partition fan or a duct fan the operation of flued gas appliances should be tested by a competent person to ensure that back flow of combustion gases does not occur.



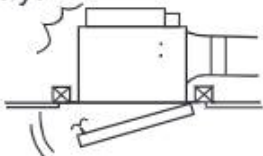
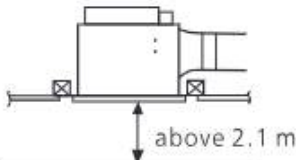
Otherwise, a fire may be caused and the gases may potentially result in carbon monoxide poisoning.

INSTALLATION INSTRUCTIONS

⚠ WARNING

- Do not install the product as the method which is not approved in the instruction.
 - ⊘ Otherwise, unreliable installation may be caused and thus the product may fall off, resulting in injuries.
- Installation of this product must comply with the relevant zoning and IP rating requirements of AS/NZS 3000.
 - ⚠ Otherwise, it may cause a short circuit or insulation breakdown, thus resulting in a fire.
- Do not install the fan out of the window and wall.
 - ⊘ Otherwise, the product may get wet in the rain and cause short circuit.
- The product must be installed by professionals or trained personnel with equivalent expertise and skills according to the national wiring rules.
 - ⚠ Otherwise, electric leakage, electric shock or a fire may be caused due to wrong wiring, twisted wiring or wire clamping.
- Please select 60227 IEC 53(RVV) ordinary polyvinyl chloride sheathed cord. Nominal cross-sectional area of conductors is $4 \times 0.75 \text{ mm}^2$ (Suited for FV-24JA4).
 - ⚠ Otherwise, it may cause fire.

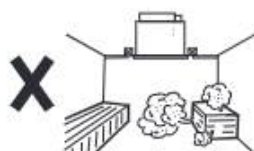
⚠ CAUTION

- Do fix this product tightly.
 - ⚠ Otherwise, it may fall off to cause personal injury.
- Components must be installed tightly.
 - ⚠  Otherwise, it may fall off to cause personal injury.
- The special-purpose or dedicated parts, such as mounting fixtures, must be used if such parts are provided.
 - ⚠ Otherwise, the product may fall down and it may cause injury.
- Do avoid the back-flow of gas into the room from the open flue of flammable gas or other open-fire appliances.
 - ⚠ Otherwise, it may cause fire.
- The lowest surface of this product should be mounted above 2.1 m from the floor after installation.
 - ⚠  Avoiding any accidents.
- The product must be mounted on a building which is strong enough. To ensure it can bear over 5 times of product weight. The building must be reinforced if its strength can not be ensured.
 - ⚠ Otherwise, the product may fall down and it may cause injury.
- Please wear the gloves when installing the product.
 - ⚠ Otherwise, it may cause damage.
- Do not reconstruct this product.
 - ⊘ Otherwise, it may cause damage to the product or injury.

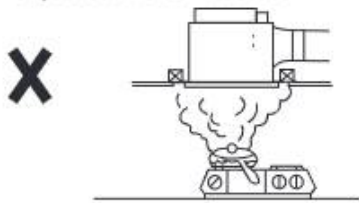
INSTALLATION REQUIREMENTS

Please observe the following requirement. Otherwise, it may cause the product aging and breakdown.

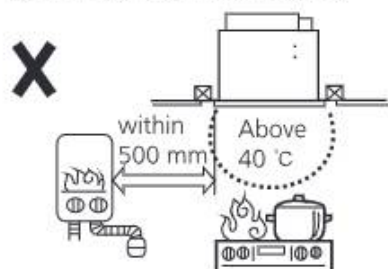
- Do not install the product where there is steam.



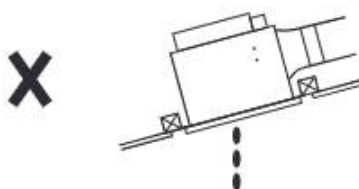
- Do not install the product where it is exposed to oil fumes.



- Do not install the product in places with high temperature.

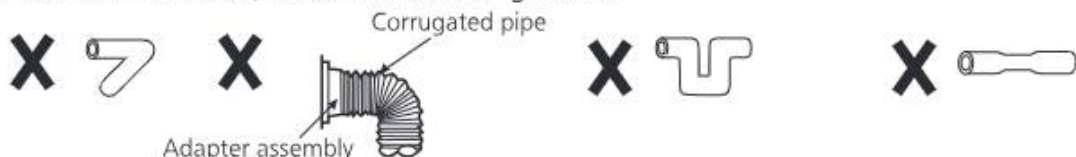


- Do not install onto slanting ceiling.

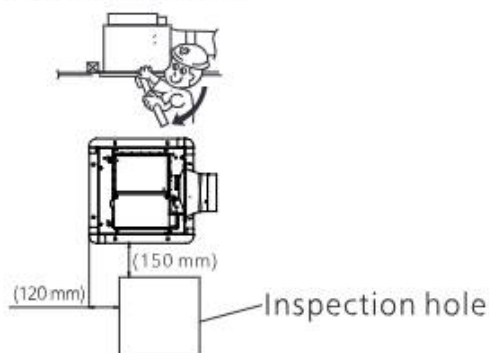


Prevent the water condensed in the duct pipe flow back into the body.

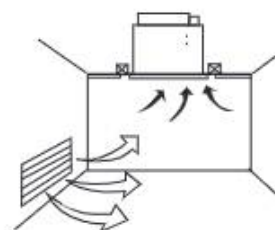
- To install the duct, avoid the following cases.



- Please set a square inspection hole of at least 45 cm.



- Please set ventilation holes.



- Do not install the product in the place with many dust.

SUPPLIED ACCESSORIES

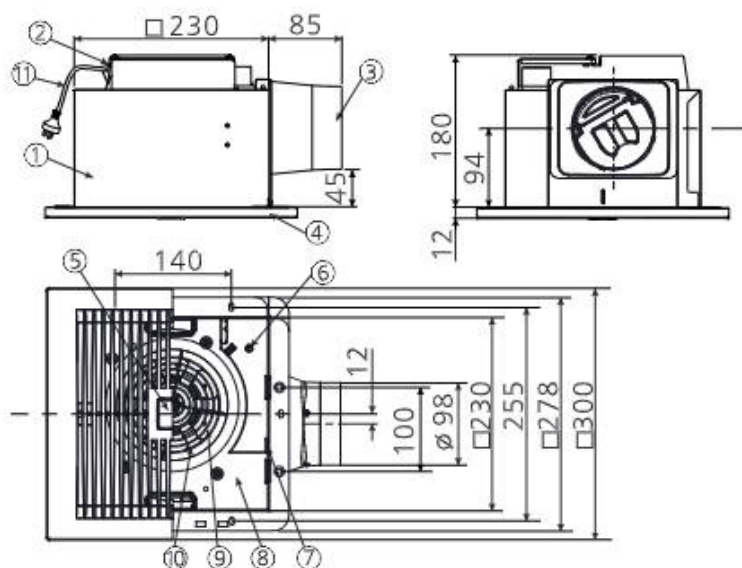
The following accessories are provided with the ventilating fan in the package. When you unpack, check if the accessories are all included. If any accessory is missing, please contact the dealer.

Appearance	Name and Purpose	Quantity
	Installation and operating instructions	1
	Tapping screw (ST4.2x20) fixing the body assembly and the adapter assembly to the wooden frame	6
	Louver (FV-24JR4 model's louver is connected with fan body)	1
	Louver (For FV-24JA4 model)	1
	Warranty card	1

PART NAMES AND DIMENSIONS

FV-24JR4

Unit:mm



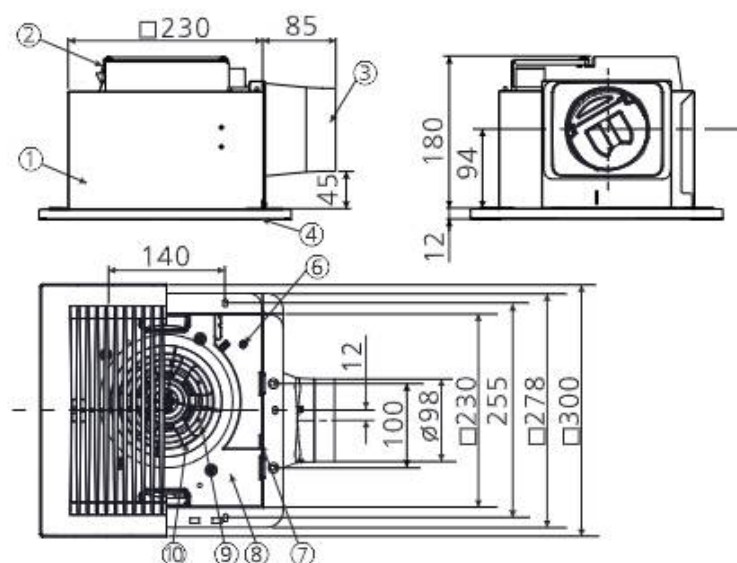
Duct Size

Ø100

PART NAMES AND DIMENSIONS

FV-24JA4

Unit:mm



Duct Size

Ø100

No.	Part name	No.	Part name	No.	Part name
①	Frame	②	Wiring box	③	Adapter assembly
④	Louver	⑤	Sensor unit (For FV-24JR4 model)	⑥	Air volume switch
⑦	Hexagon screw	⑧	Orifice	⑨	Blade
⑩	Fan guard	⑪	Power cord (For FV-24JR4 model)		

HOW TO INSTALL

- Installation illustrations are based on the FV-24JR4 model. Please wear gloves during the installation.

CAUTION

- When you unpack and take out the product, be sure to take out the louver and the fan body together, because the sensor lead wire is connected between the louver and the fan body.



The sensor lead wire or the louver may be damaged.



- Be sure not to add any tension on the sensor lead wire between the louver and the fan body when installing this fan.



The sensor lead wire or the louver may be damaged.

- When you install the fan, be careful not to be struck by the hanging louver.



This may cause injury or damage the louver.

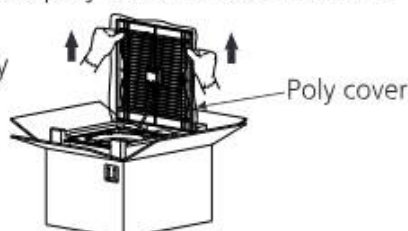
HOW TO INSTALL

CAUTION

- Do not take out the louver from the poly cover before install it.

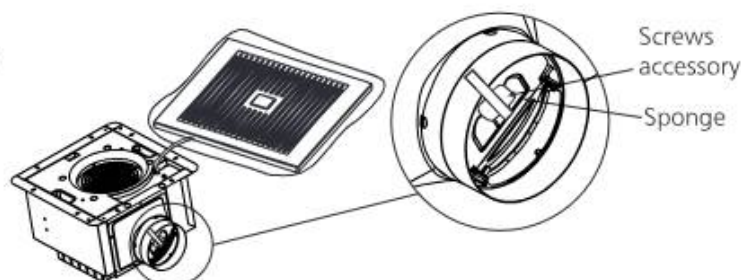


The dirt may adhere to the louver or damage may be caused.



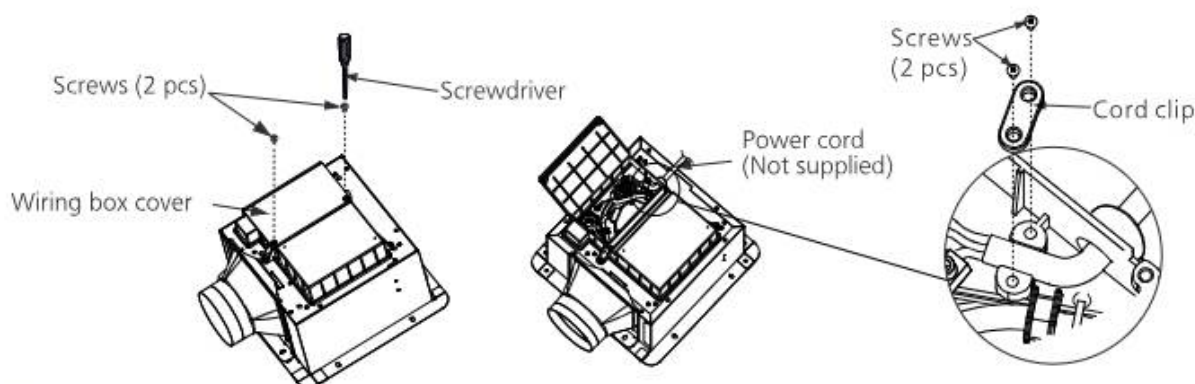
1. Preparation

Please peel off the screws accessory stuck on the adapter assembly carefully, to prevent damage the sponge on the adapter assembly.



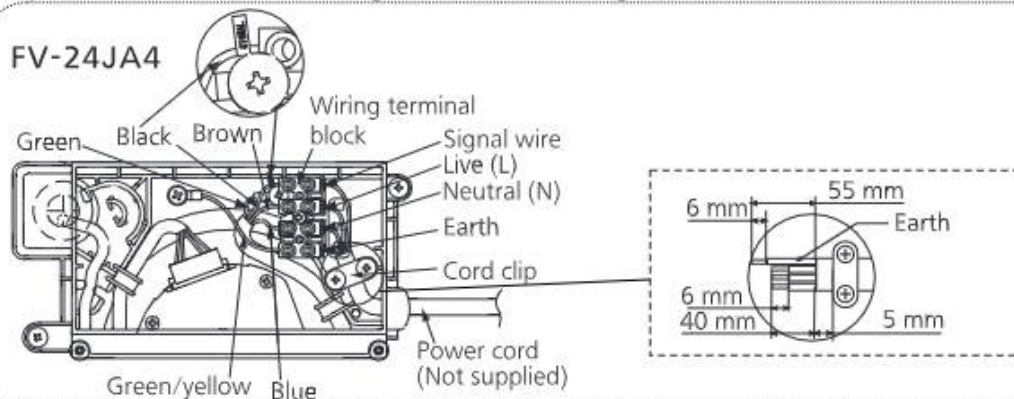
2. Power Cord Connection (For FV-24JA4 model)

- Loosen the wiring box cover screws (2 pcs) and cord clip screws (2 pcs), connect the power cord to the wiring terminal block according to wiring methods below.



- Put the power cord into the wiring box before wiring.

FV-24JA4



HOW TO INSTALL

Notice

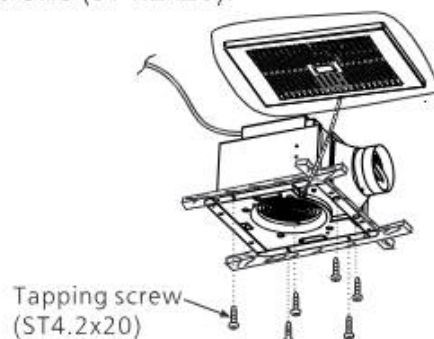
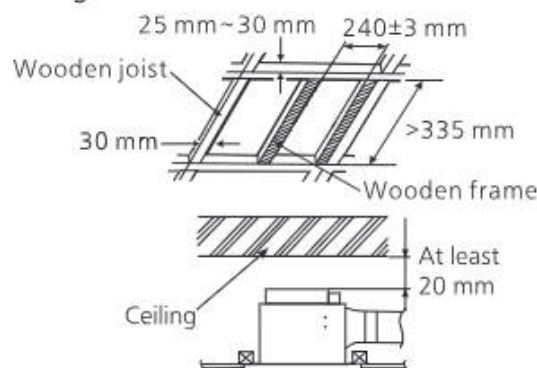
- For the stripping length, please according to the wiring sketch (Refer to page 7). If the stripping length is too long, it may cause short circuit.
 - Do not damage the sheath of the power cord.
 - Strand the core wire together into a bundle, then insert them into the deep position of the terminal block, ensuring that the screw terminal column of wiring terminal block is pressed on copper and copper core cord is exposed outside. Otherwise a short circuit or an electric shock may be caused.
 - Tighten the wiring screw, and confirm all the wires are fixed reliably.
- ② After wiring, fix the power cord with cord clip reliably, then put the wiring box cover back on and fix by screws reliably (2 pcs).

WARNING

- Be sure the screws of wiring box cover are tightened firmly.
- ❗ This may cause electric shock.
- Please select 60227 IEC 53(RVV) ordinary polyvinyl chloride sheathed cord. Nominal cross-sectional area of conductor is $4 \times 0.75 \text{ mm}^2$ (Suited for FV-24JA4).
- ❗ It may cause damage to the product or a fire may be caused.

3. Fan Body Installation Method 1 install with wooden joist

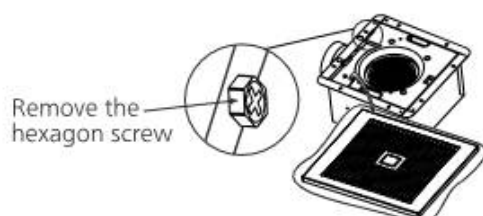
- ① Build a wooden frame horizontally from the wooden joist. Note that the distance between the top of the fan body and the ceiling should be at least 20 mm.
- ② Keep the power cord above the fan body, then insert the fan body to the wooden frame as shown in the figure and firmly secure the fan body with six tapping screws (ST4.2x20).



HOW TO INSTALL

3. Fan Body Installation Method 2 Install the adapter assembly first

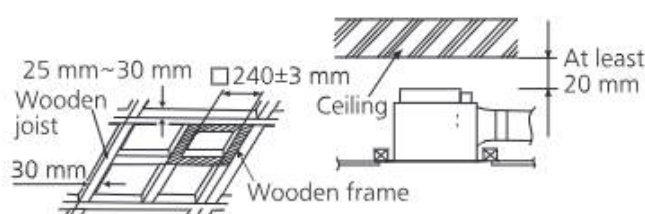
- ① First remove the hexagon screw attaching the adapter assembly to the fan body.



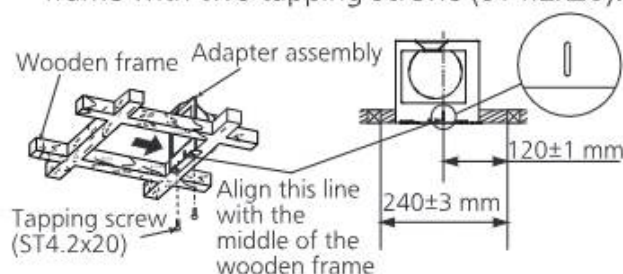
- ② Remove the adapter assembly by following steps 1 and 2 as shown in the figure.



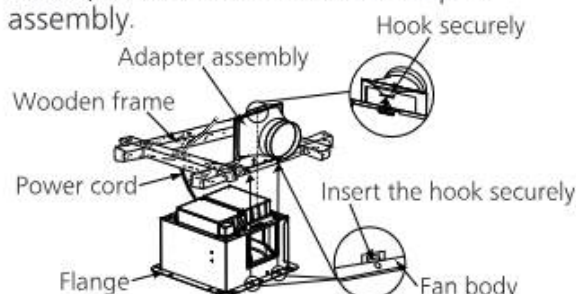
- ③ Build a wooden frame horizontally from the wooden joist. Note that the distance between the top of the fan body and the ceiling should be at least 20 mm.



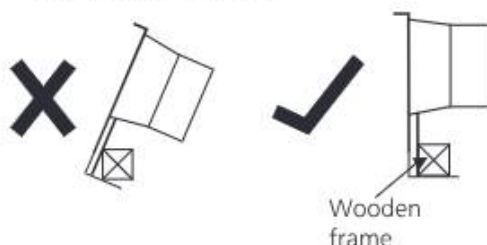
- ④ Install the adapter assembly by clinging to the wooden frame as shown in the figure, and fix the adapter assembly to the wooden frame with two tapping screws (ST4.2x20).



- ⑤ Keep the power cord above the fan body, then insert the fan body in the wooden frame, and connect it to the adapter assembly.



- If the adapter line does not align with the middle of the wooden frame, you may not be able to install the fan body onto the adapter assembly.



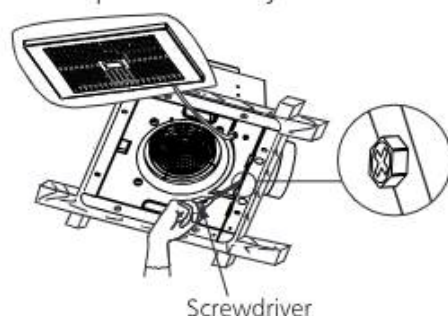
- Ensure that the power cord completely passes through the wooden frame, lest the fan body and wooden frame would clamp to damage the power cord.

- ⑥ Secure the fan body with four tapping screws (ST4.2x20).



- ⑦ Tighten the hexagon screw fixing the fan body to the adapter assembly with a screwdriver.

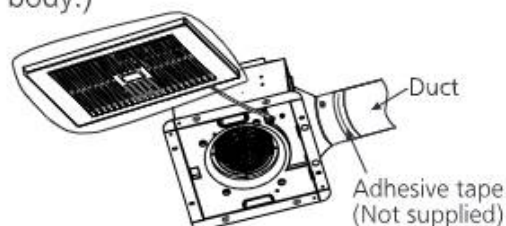
- Upon installation, check that the fan body and adapter assembly are installed securely.



HOW TO INSTALL

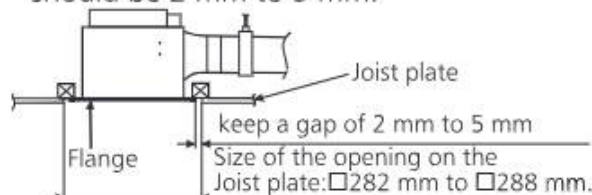
4. Duct Connection and Joist Plate Installation

- ① Insert the duct into the adapter assembly, and tighten it with adhesive tape (Not supplied). (Suspend the duct from the ceiling to prevent any external force onto the fan body.)

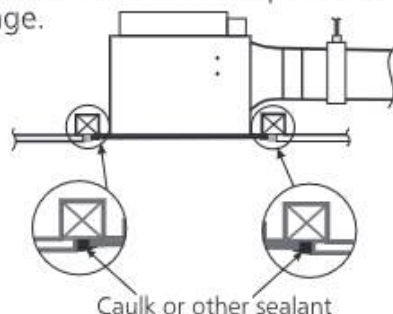


- ③ Install the pipe hood or vent cap (Not supplied) on the outer wall. (Please purchase a pipe hood or vent cap separately according to the duct size.)

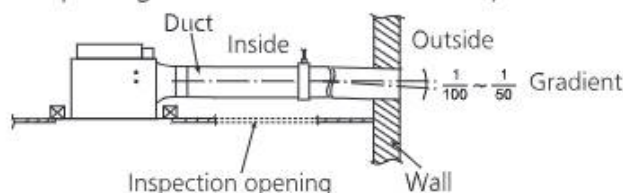
- ② Install the joist plate. Note that the gap between the flange and the joist plate should be 2 mm to 5 mm.



- After finishing the ceiling job, fill gap between flange and joist plate with caulk or other sealant to prevent air leakage.



- Slope the duct downward and guide it through the wall to the outside. Be sure to prevent rainwater from failing in the duct from its outlet. (The minimum size of the opening on the wall is: Ø116 mm)

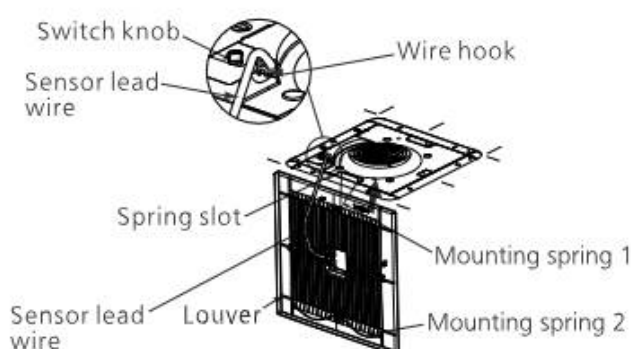


5. Louver Installation

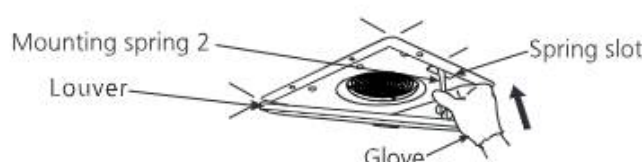
- ① Take off the poly cover before installing the louver and please wear gloves during the louver installation.
- ② First, insert the mounting spring 1 into the slot near the switch knob as shown in the figure.
- ③ Adjust the air volume switch by following the switch indication on page 12.

HOW TO INSTALL

- ④ For FV-24JR4 model: Check that the sensor lead wire is in the wire hook and does not fall off.



- ⑤ Finally, insert the mounting spring 2 into another slot and mount louver to the fan body.



TEST RUN

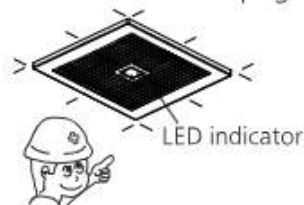
- ① When the power is turned on, check for functions as follows:

■ Fan function:

- Do the blade rotate anti-clockwise?
- Is there any abnormal sound or vibration?

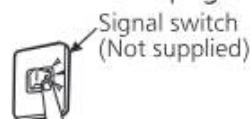
■ Sensor function (For FV-24JR4 model):

Toggle the air volume switch to the "0" position by following the switch indication on page 12. Does the LED indicator blink when the sensor detects motion of a person? Does the blade rotate properly? Do the blade stop rotating automatically in 15 minutes after the person leaves? After function check completes, toggle the air volume switch to the factory default position by following the switch indication on page 12.



■ Functions of the wall signal switch (For FV-24JA4 model):

Toggle the air volume switch to the "0" position by following the switch indication on page 12. Do the blade rotate properly after the wall signal switch (Not supplied) is turned on? Do the blade stop rotating automatically in 15 minutes after the wall signal switch is turned off? After function check completes, toggle the air volume switch to the factory default position by following the switch indication on page 12.



- ② In case of any exceptions, check whether all the parts are installed correctly.

SWITCH INDICATION

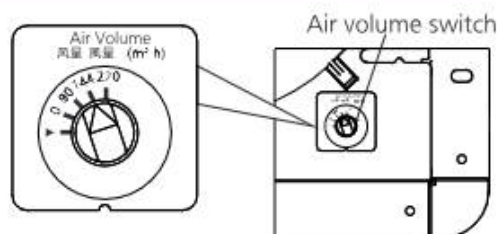
Air volume switch positions

Air volume (m ³ /h)	▼	0	90	144	220
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Initial setting: 144 m³/h

The "▼" position is used for factory test only.

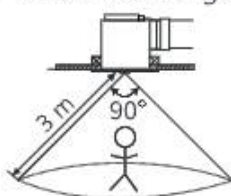
Do not use this position.



OPERATION

① Motion sensor (For FV-24JR4 model)

■ Detectable range



At the condition that the room temperature is 25 °C

- The distance that can be detected is about 3 m.
- The field of view of the sensor is about 90°.

■ When the sensor detects motion of a person, the fan keeps running at the maximum air volume until the delay time ends.

■ When new motion is detected by sensor in the delay time stage, the delay time will be counted again.

② The air volume is controlled by the air volume switch.

• Sensor function

FV-24JR4	Human action	Inside	Enter	Leave	Outside
	Fan action	The fan runs	When the sensor detects motion of a person, the fan runs at the maximum air volume.	The fan keeps running at the maximum air volume until the delay time ends, and then the initial position is restored.	
	Air volume status	220 144 90 0 (m ³ /h)			

• Functions of the wall signal switch

FV-24JA4	Human action	Inside	Enter	Leave	Outside
	Fan action	The fan runs	When the wall signal switch is turned on, the fan runs at the maximum air volume.	When the wall signal switch is turned off, the fan keeps running at the maximum air volume until the delay time ends. Then the initial position is restored.	
	Air volume status	220 144 90 0 (m ³ /h)			

USE AND MAINTENANCE INSTRUCTIONS

WARNING

- Do not disassemble this product for repair or reconstruction.



Doing this may lead to fire and electric shock.

- Do not directly spray this product with water and other liquids.



Doing this may lead to short circuit or electric shock.

- Before touching this product, ensure that the power switch connected to this product is turned off.



This may result in electric shock.

- If you will not use this product any more, remove the product.



This product may cause injuries once it falls off.

- Once flammable gas leaks, do not start any function of this product.



Doing this may generate spark and thus lead to explosion.

- Do not let water flow into the motor.



Otherwise, it may damage the product or cause fire.

- When you clean the louver, do not put your hand in the louver gap.



This may result in injury.

- This product is applicable to living rooms, washrooms and other places where the humidity is not too high.



This may cause short circuit or electric shock.

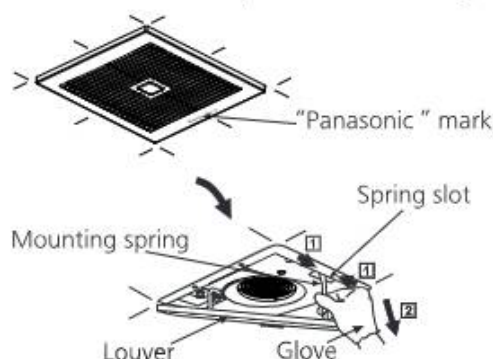
Notice

- Routine maintenance is required every year. Disconnect the power source before you conduct any maintenance.
- Do not immerse blade or other resin parts in hot water over 60 °C.
- Do not use petrol, benzene, thinner or any other such chemicals for cleaning the ventilating fan.

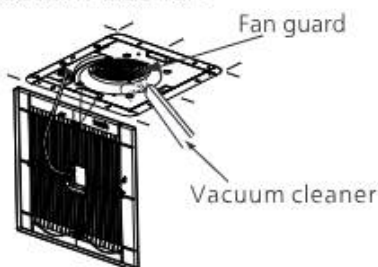
MAINTENANCE

For FV-24JR4 model:

- ① Pull down the mounting spring to the right of the "Panasonic" logo as described in steps 1 and 2 the figure.

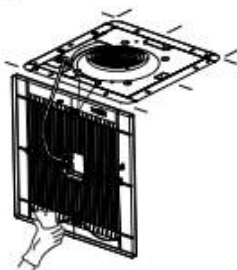


- ③ Clean the dirt from the fan body using a vacuum cleaner.



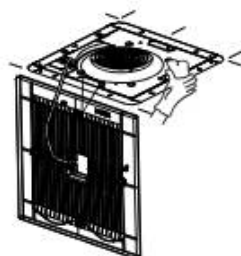
- ② Clean the louver and the sensor cover with a soft dry cloth. Be sure not to add any tension on the sensor lead wire.

- Do not use any liquid or water to clean the louver.



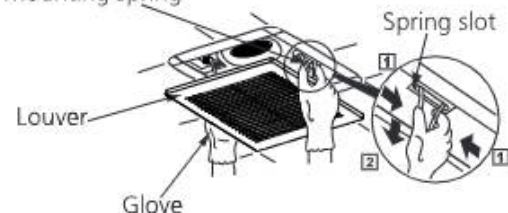
- Do not disassemble the sensor unit from the louver when cleaning.

- ④ Wipe the dust off the fan body with a soft cloth moistened with kitchen detergent. Then clear it with a clean soft cloth. Finally, replace the louver. Install the louver by referring to "Louver Installation" on page 10 to 11.

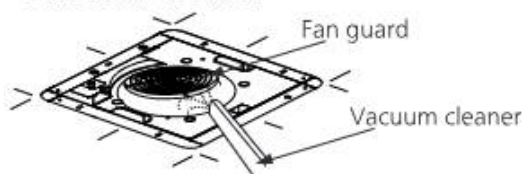


For FV-24JA4 model:

- ① Pull down the mounting spring as described in steps 1 and 2 in the figure, and then remove the louver.



- ③ Clean the dirt from the fan body using a vacuum cleaner.



- ② Rinse the louver with water, and then dry it with a soft dry cloth or leave it air dry.



- ④ Wipe the dust off the fan body with a soft cloth moistened with kitchen detergent. Then clean it with a clean soft cloth. Finally, replace the louver. Install the louver by referring to "Louver Installation" on page 10 to 11.



Notice

Please clean the louver and fan guard regularly, otherwise, dust accumulation may cause excessive noise.

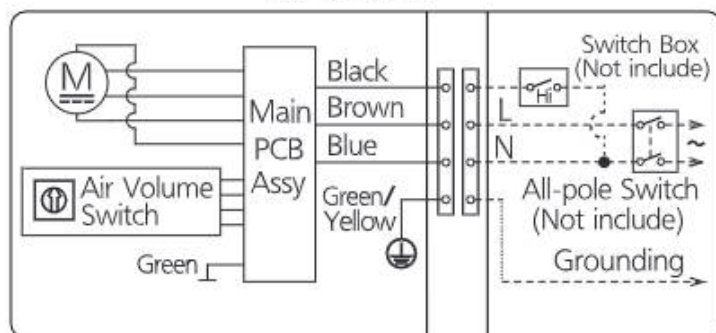
TROUBLESHOOTING

Check according to the following table and correct the problem. If the fan still does not work correctly, disconnect the power source and contact the dealer.

PROBLEM	CAUSE	ACTION
The fan does not run at the maximum air volume when a person is within the sensing range of the sensor.	Is the room temperature near the temperature of human body?	Check again after the room temperature drops.
	Is the sensor of the sensor slow to the people's motion?	Make sure there is no obstacle near the product.
	Is the sensor unit dirty?	Clean the dirt according with "MAINTENANCE" on page 14.

WIRING DIAGRAM

FV-24JA4



SPECIFICATIONS

Model No.	Voltage [V]	Frequency [Hz]	Power consumption [W]	Air volume [m³/h]	Noise [dB(A)]	Max static pressure [Pa]	Net weight [kg]
FV-24JR4/ FV-24JA4	230-240	50	23	220	43	170	3.0/ 2.9
			8	144	34	170	
			4.3	90	26	170	

1. The values of rated input, air volume and noise are specified at the static pressure of 0 pa.
2. The values of noise level is a weighted average sound pressure level, the central value are measured by our company, within +3 dB(A) and -7 dB(A) tolerance.
3. Test method: In the noise test room, measure the noise value at a position 1 m away from the left side/right side/bottom of the sample respectively, and then calculate the average value.
4. Air volume is the central value measured by this company with $\pm 10\%$ of tolerance range.
5. Max static pressure is the value of the company's test results when the air volume is 0, with a lower deviation of -10%.

Insulation Class E

IP Code: IPX2

Type of Insulation: Functional Insulation

The above specification may be changed without further notice.

Panasonic HVAC & CC Co., Ltd.

Web Site: <https://www.panasonic.com>

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