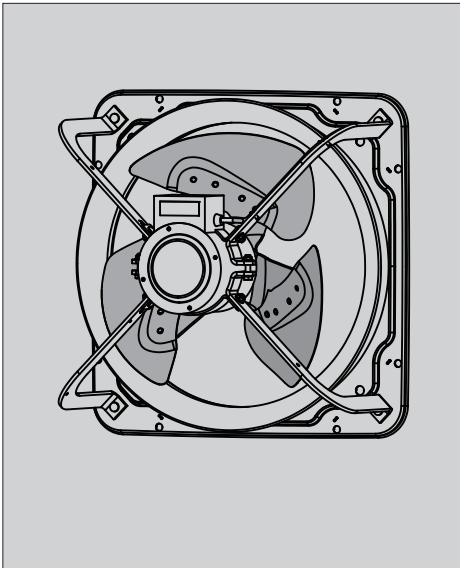


Installation and Operating Instructions Ventilating Fan

Model No. FV-45GS5
FV-50GS5
FV-60GS5



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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.7~8) of this instructions before operation. Please retain this booklet for future reference.

SAFETY INSTRUCTIONS

Please observe strictly

- Disconnect power supply before maintenance.
- This product 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 product by a person responsible for their safety. Children should be supervised to ensure that they do not play with the product.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

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

- The following displays are classified and explained to what extent harm or damage occurs when the display details are ignored and the unit in question is wrongly used.



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.

- The types of details to be observed are classified and explained in the following illustrated displays. (below are the series of illustrated displays)



This symbol indicates the item "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.

- Do not install the product as the method which is not approved in the instruction.



Otherwise, it may cause the product to fall and result in injuries.

- Do not install this fan in a place where there is explosive gas or corrosive gas existed.



Otherwise, the product may be damaged.

- 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.

INSTALLATION INSTRUCTIONS

WARNING

- Do not use power other than the rated voltage.



Otherwise, the power cord may be overheated and induce fire.

- Do not install the fan outside of the window or the wall.



Otherwise, the rain will enter product, which may cause short circuit.

- Do not install this fan in a place there is a great amount of humidity (such as the bathroom, etc.).



Otherwise, it may cause short circuit or electric shock.

- Do not disassemble the product for reconstruction.



Otherwise, it may cause electric shock.

- 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.

- Please install an all-pole switch which the contact separation is more than 3 mm (all-pole switch).



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

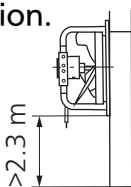
CAUTION

- Do not insert your fingers or any metallic objects into the fan blade when the product is operating.



Otherwise, it may cause hurt by the fan blade.

- The bottom surface of the product should keep a distance of over 2.3 m from the ground after installation.



Avoiding any accident

- The special-purposes or dedicated parts, such as mounting fixtures, must be used if such parts are provided.



Otherwise, it may cause the product to fall and result in injuries.

- When install the product, please wear gloves.



Otherwise, it may cause injury.

- Do fix this product tightly.



Otherwise, it may fall off to cause personal injury.

- Components must be installed tightly.



Otherwise, it may cause hurt as the product falls off.

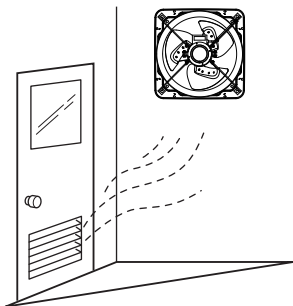
- The product must be mounted on a building which is strong enough. To ensure it can bear over 5 times of product weight. The building must be reinforced if its strength can not be ensured.



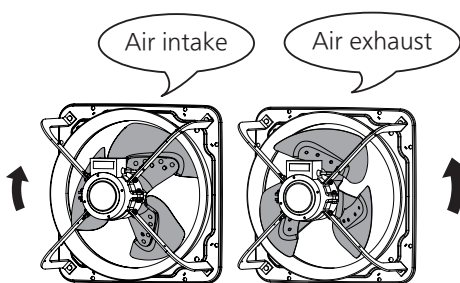
Otherwise, it may cause the product to fall and result in injuries.

INSTALLATION REQUIREMENTS

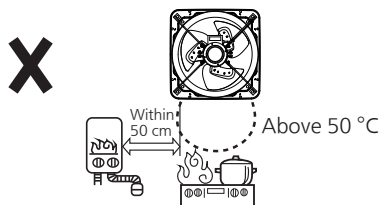
■ Please set ventilation holes.



■ Please confirm the running direction of product.

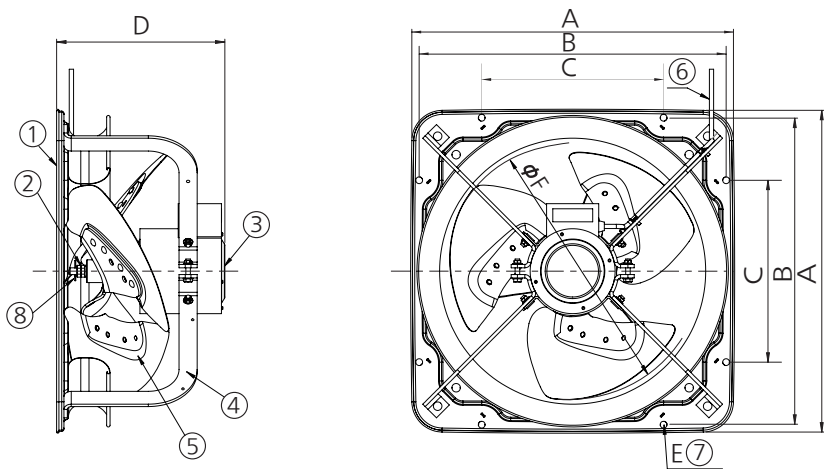


■ Do not install the product in places with high temperature.



- Disconnect the power plug immediately once it is a power failure.
- When there is typhoon or heavy rain, stop operating the fan.
- This fan is designed for industrial use, it can be used in factories, warehouses, shops and other places where large air change is necessary, and this fan is also designed for household usage.
- This product is not provided with all-pole switch and leakage protection switch. Please purchase them in market.
- The applicable ambient temperature of this product is in the range of -10 °C ~ 50 °C.

PARTS NAME AND DIMENSIONS



①	Frame
②	Hexagonal nut
③	Motor
④	Motor support
⑤	Blade
⑥	Power cord
⑦	8 Fitting holes
⑧	Snap pin

Dimensions: mm

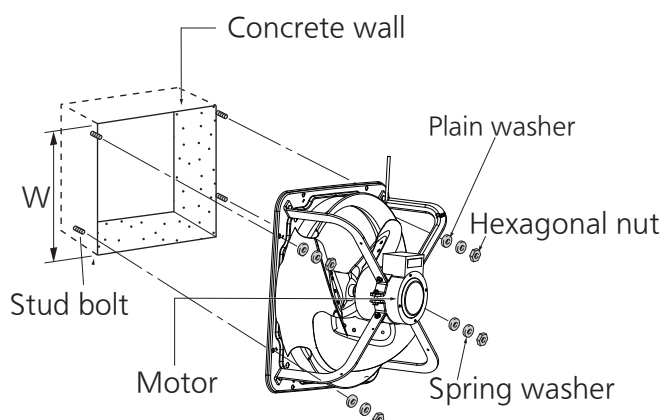
Model	A	B	C	D	E	F
FV-45GS5	570	540	320	297	12 dia.	450 dia.
FV-50GS5	659	620	355	315	15 dia.	500 dia.
FV-60GS5	760	720	400	320	15 dia.	620 dia.

HOW TO INSTALL

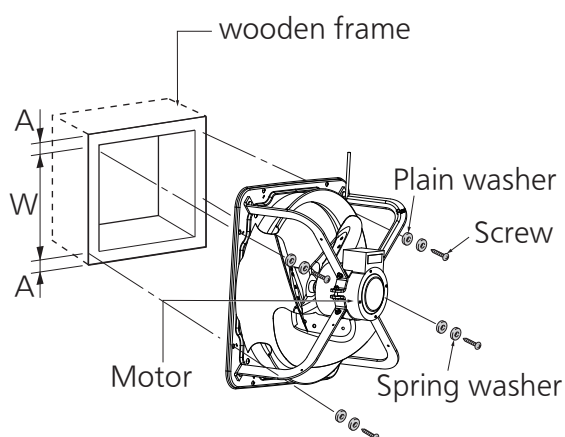
1. The installation of product

- During installation and carrying work, take special care not to deform the blade. If the blade is deformed, abnormalities such as unbalance or vibration may occur. (The product is not provided with plain washer, hexagonal nut, spring washer, screw and stud bolt. Please purchase them in market. The specifications are M6~M10 and the length is not less than 45 mm.)

Installation on concrete wall



Installation on wooden frame



Dimensions: mm

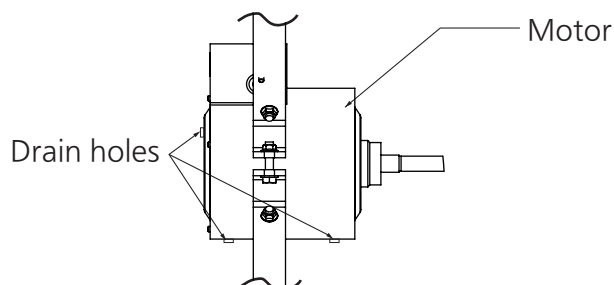
Model	W
FV-45GS5	500 sq.
FV-50GS5	555 sq.
FV-60GS5	675 sq.

Model	W	A
FV-45GS5	500 sq.	40
FV-50GS5	555 sq.	55
FV-60GS5	675 sq.	55

Notice

The holes in the wall should be not less than the sizes as showed above. Otherwise, the blades may touch the wall.

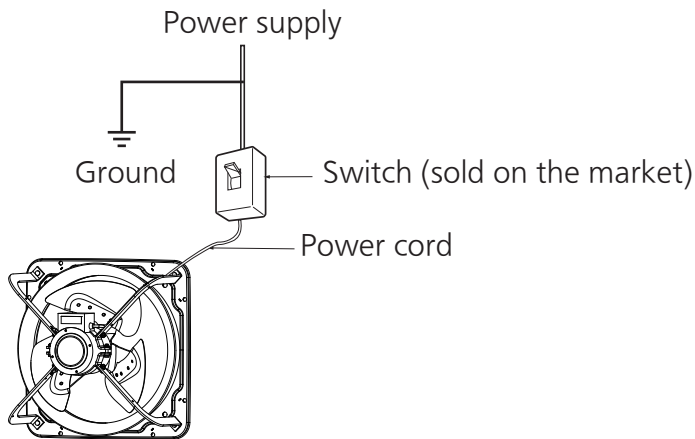
- The fan can be used facing to the side or up and be sure to remove the drain cap which is installed at the bottom.



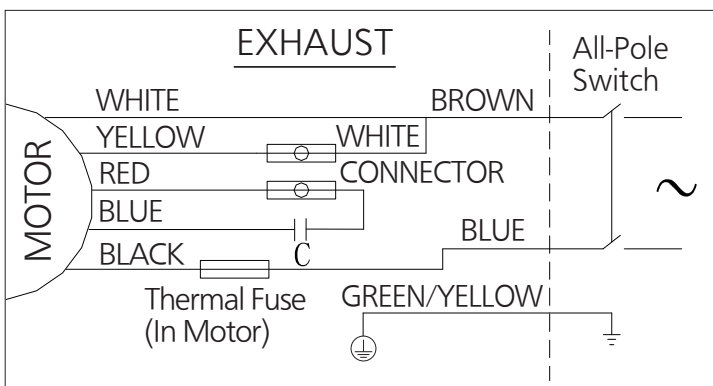
HOW TO INSTALL

2. Connecting the power cord

- Use the switch that complies with IEC 60335 and have qualified personal connect install the switch in the manner described in this manual.



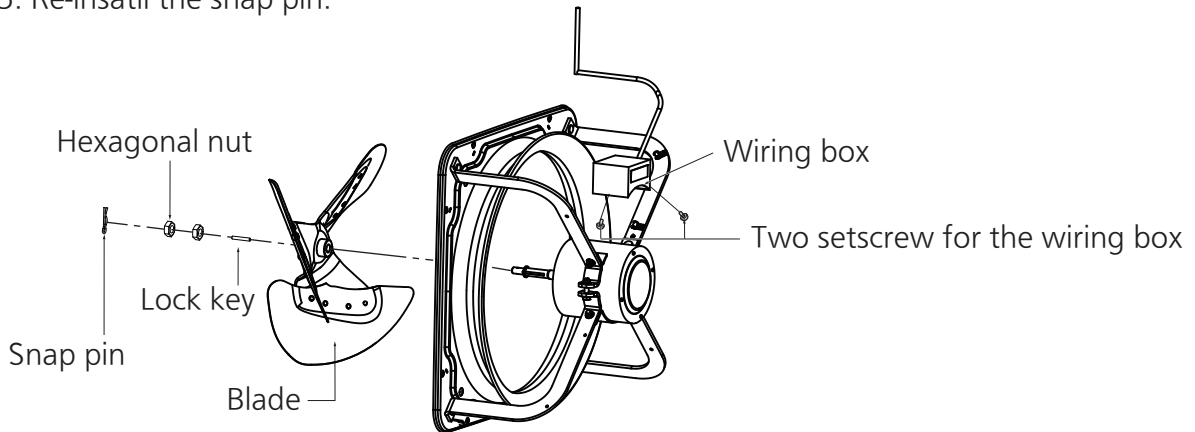
Wiring Diagram (Exhaust)



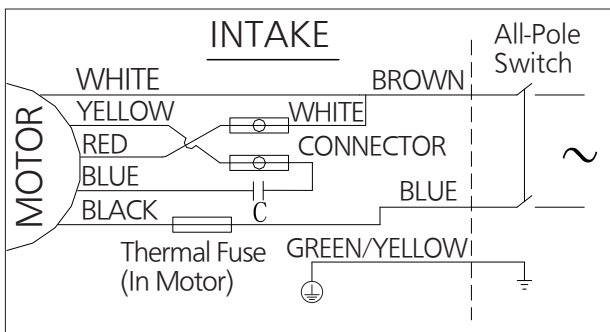
- The all-pole switch must be not less than 2 A.

HOW TO REVERSE AIR FLOW

1. Remove the snap pin.
2. Loosen the hexagonal nut to remove the blade.
3. Remove the two wiring box setscrews and exchange the yellow and red wires according to the wiring diagram. After exchanging, re-install the wiring box in its original position.
4. Mount the blade in reverse position and tighten securely with the hexagonal nut.
5. Re-insatll the snap pin.



Wiring Diagram (Air intake)



USE AND MAINTENANCE INSTRUCTIONS

⚠ WARNING

- Do not spray water or any other liquids directly onto this product or clean it with any liquids.



Otherwise, it may cause short circuit or electric shock.

- In case of gas leakage, do not turn on/off this product.



Otherwise, it may generate electric spark and lead to an explosion.

- Disconnect power supply before maintenance.



Otherwise, the product might operate with the possibility of electric shock or injury.

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



Otherwise, it may cause injuries once the product falls off.

USE AND MAINTENANCE INSTRUCTIONS

⚠ CAUTION

■ When clean the product, please wear gloves.

❗ Otherwise, it may cause injury.

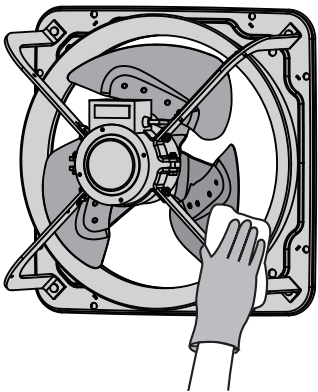
Cleaning Precautions

Never use petrol, benzene thinner or any other such chemicals for cleaning the product.

HOW TO MAINTENANCE

Cleaning method:

Wipe the dust off the product with a soft cloth moistened with kitchen detergent, then clear it with a clean soft cloth.



Notice

- All the blades need to be cleaned.
- The blades are weak, do not apply too much pressure on them.

SPECIFICATIONS

Model No.	Voltage [V]	Frequency [Hz]	Power consumption [W]	Speed [min ⁻¹]	Air delivery [m ³ /h]	Weight [kg]
FV-45GS5	220	50	227	1412	5200	18.8
FV-50GS5	220	50	249	958	6130	20.3
FV-60GS5	220	50	245	972	8040	31.5

Panasonic HVAC & CC Co., Ltd.

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

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