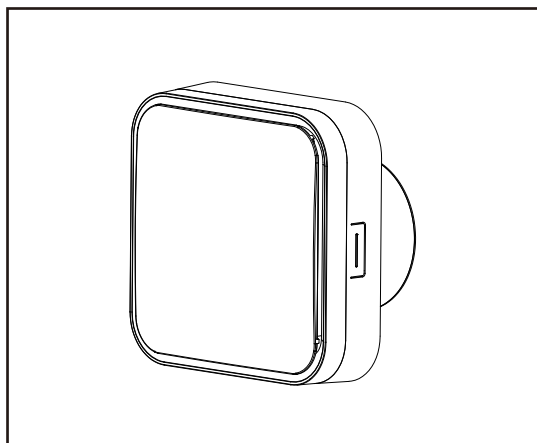


Panasonic®

INSTALLATION AND OPERATING INSTRUCTIONS

Ventilating Fan

Model No.: **FV-06PHP1**




CONTENTS	
SAFETY INSTRUCTIONS	2
INSTALLATION INSTRUCTIONS	2~3
INSTALLATION REQUIREMENTS	3
SUPPLIED ACCESSORIES	4
PART NAMES AND DIMENSIONS	4
HOW TO INSTALL	4~6
TEST RUN	7
USE AND MAINTENANCE	
INSTRUCTIONS	7
MAINTENANCE	8~9
WIRING DIAGRAM	9
SPECIFICATIONS	10


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

- Disconnect power supply before maintenance.
- 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 occur 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.

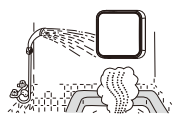
 This symbol indicates the item is "PROHIBITED" to do.

  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.
- **The special-purpose or dedicated parts, such as mounting fixtures, must be used if such parts are provided.**
- **Do not alter the internal wiring of the product.**  Otherwise, fire or electric shock may be caused due to a short circuit. If a failure occurs, please contact the dealer for repair.
- **Do not operate the product other than the rated voltage (220 V~ 50 Hz).**
- **Do not install the product as the method which is not approved in the instruction.**  Otherwise, it may cause damages to the product or a fire.
- **Please install a suitable all-pole switch(not included) which the contact separation is more than 3 mm.**  Otherwise, it may fall off to cause personal injury.
- **Do not install the product in a place where it is likely to be sprayed by water or exposed to excessive smoke or water vapor.**  Otherwise, unreliable installation may be caused and thus the product may fall off, resulting in injuries.
- **Please install a suitable all-pole switch(not included) which the contact separation is more than 3 mm.**  Otherwise, electric shock may be caused due to wrong wiring.
- **Do not install the product in a place where it is likely to be sprayed by water or exposed to excessive smoke or water vapor.**  Otherwise, fire or electric shock may be caused due to a short circuit.




INSTALLATION INSTRUCTIONS

WARNING


■ Please select 60227 IEC 53(RVV) ordinary polyvinyl chloride sheathed cord. Nominal cross-sectional area of conductors is $4 \times 0.75 \text{ mm}^2$.

 Otherwise, it may be on fire.

■ This product must be installed by professionals.

 Otherwise, the product may fall off, thus resulting in injury.

■ Do not install the main unit outside the window, ceiling or wall.

 Otherwise, the product may fall off, thus resulting in injury.

■ Do avoid the back-flow of gas into the room from the open flue of flammable gas or other open-fire appliances.


 Otherwise, a fire may be caused.

CAUTION

■ Wear gloves when installing the product.

 Otherwise, injury may be caused.


■ The building structure which are used to installed product must have sufficient installation strength and support more than 5 times weight of the product. They must be reinforced if their strength can not be sure.

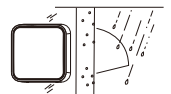
 Otherwise, it may fall off to cause personal injury.

■ Install the product at a place where the fan blade is at least 2.3 m higher than the ground surface.

 Otherwise, an accident may be caused.

■ Install an anti-bird mesh or the like at the outdoor air inlet. It is recommended to install Panasonic's standard outdoor pipe shield FV-MGP15(not included).For details, refer to the installation instructions of the outdoor pipe shield.

 Otherwise, foreign matter may enter the product and cause damage to the product or result in electric shock.



INSTALLATION REQUIREMENTS

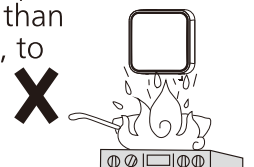
■ Do not install the product at a place where chemicals or special gases are used, to avoid accelerating product aging.

■ Do not install the product in a closed space, to maintain performance of the product.




■ Do not connect two or more products to one socket for parallel operation, to prevent damage to the product motor.

■ Select an appropriate installation location, to protect customers from the cold air blown in at low temperatures.

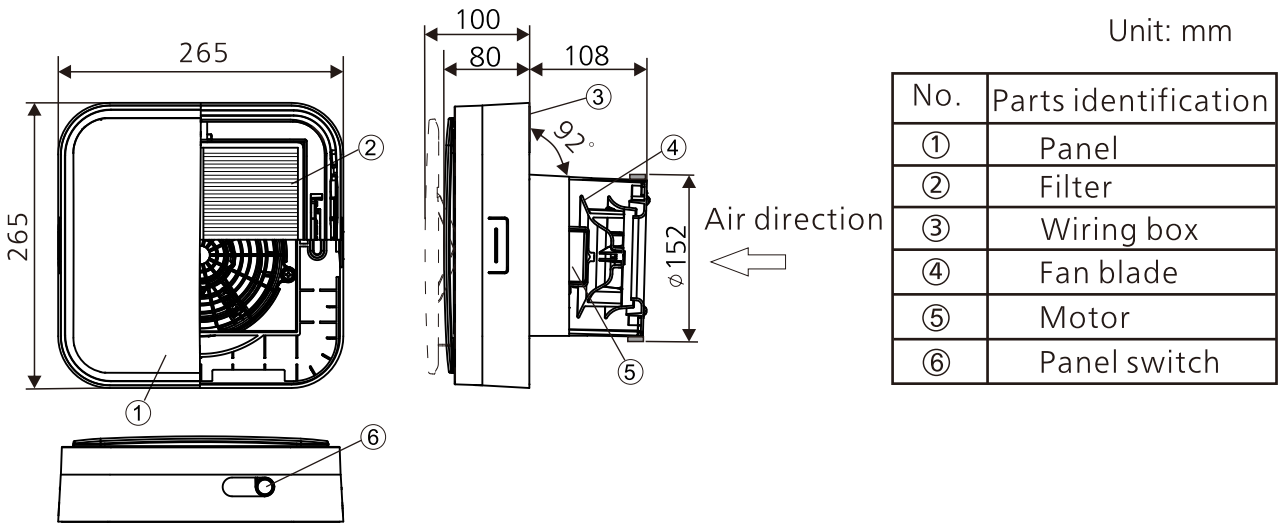
■ Do not install the product above any cooking equipment or at a place where the temperature is higher than 40°C or lower than -10°C , to prevent damage to the product.



SUPPLIED ACCESSORIES

No.	Drawing	Name and Purpose	Qty
①		Expansion screw set ($\phi 8 \times 60$, for fixing the main unit)	2
②		Filter maintenance reminder label	1
③		Installation and Operating Instructions	1

PART NAMES AND DIMENSIONS

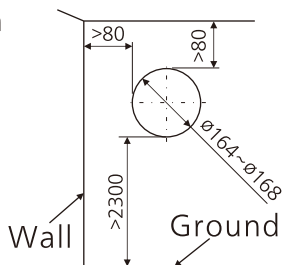


HOW TO INSTALL

1. Install the pipe

① As shown in the following figure, drill a hole with a diameter of $\phi 164 \text{ mm} - \phi 168 \text{ mm}$ that has a downward slope of $1/100 - 1/50$ ($1^\circ - 1.5^\circ$) and faces the outdoors in the wall.

Unit: mm

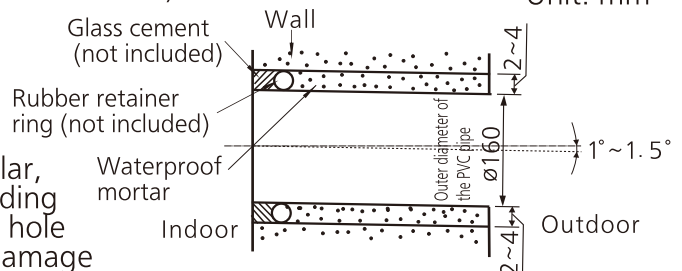


Notice

Do not drill the mounting hole in the beam, pillar, load bearing wall; otherwise, safety of the building structure may be affected. Keep the mounting hole away from electric wires in the wall, to avoid damage to the wires.

② Insert a PVC pipe (not included) (with an outer diameter of $\phi 160 \text{ mm}$, a pipe wall thickness of $3.2 \text{ mm} - 3.8 \text{ mm}$, and a length equal to the mounting wall thickness) into the hole, and seal it with waterproof materials, to prevent rain from entering the room. (The product is only applicable to walls with a thickness of 150 mm or above)

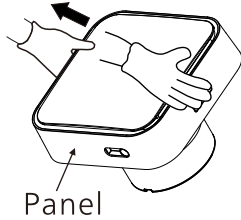
Unit: mm



HOW TO INSTALL

2. Install the main unit and connect the power cord

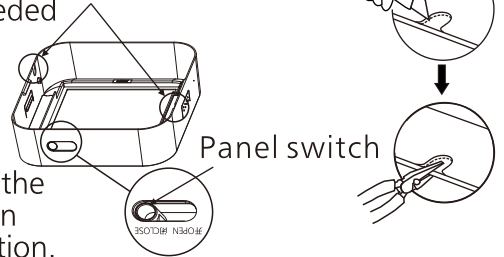
- ① Press the buttons on both sides of the panel with your hands to remove the panel.



Panel

- ② Select an appropriate wire outlet position and use a tool knife and a pair of pliers to cut out a wire outlet in the panel.

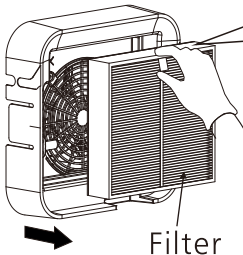
Select a wire outlet position to cut out a wire outlet as needed



Notice

Make sure that the panel switch is in the "Close" position.

- ③ Take out the filter, and fill in filter install date on the top of the filter.



开始使用日期
Date installed
วันที่ติดตั้ง

Filter

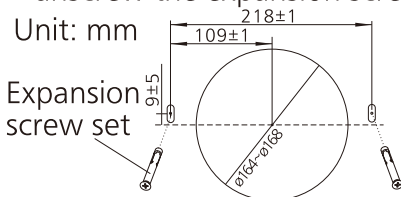
WARNING

Be sure to make the wire outlet neat.

Otherwise, electric shock may be caused due to damaged wires.

- ④ Mark a point as shown in the following figure, drill a mounting hole with a diameter of $\varnothing 8$ mm and a depth of 60 mm at the marked point, and then insert the two supplied expansion screw sets into the mounting hole. After pre-tightening, unscrew the expansion screw columns.

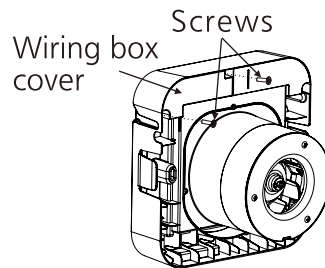
Unit: mm



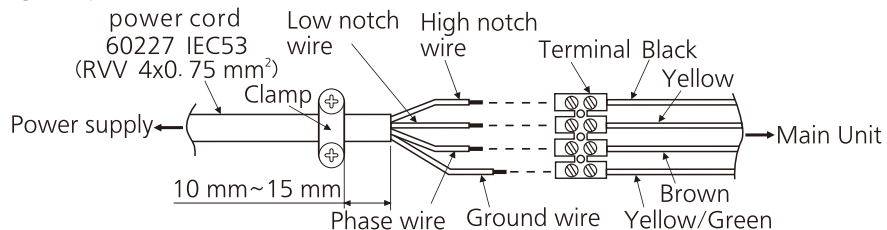
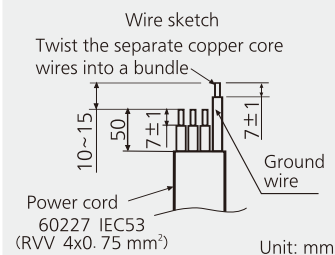
Notice

Make sure that the expansion screw sets are completely inserted into the wall.

- ⑤ Remove the two screws fixing the wiring box cover and open the wiring box cover.

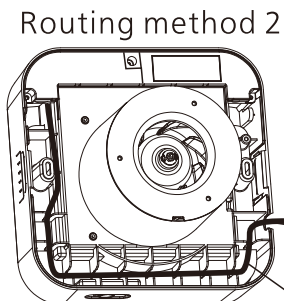
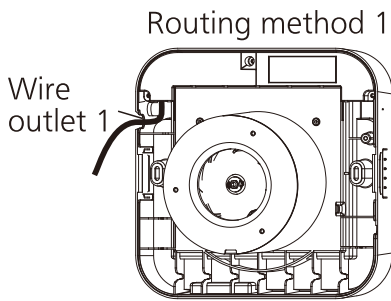


- ⑥ Release the clamp, strip the power cord (where the ground wire must be 10 mm - 15 mm longer than other leads), and twist the separate copper core wires into a bundle. Then, connect the wires according to the following wiring method (make sure that the wiring screw column of the wiring terminal is pressed on the copper wire and the copper wire is not exposed). Secure the power cord with a clamp and install the wiring box cover back. (See Page 9 for the wiring diagram)



HOW TO INSTALL

- ⑦ According to the position of the wire outlet on the panel, select an appropriate routing method and route the power cord as shown in the figure.



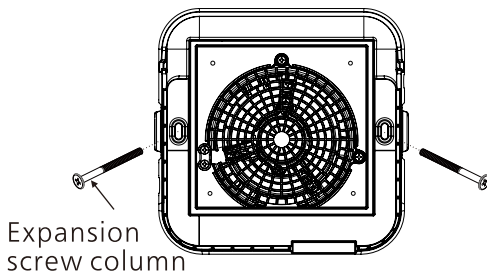
⚠ WARNING

When routing, do not press the power cord too tight.

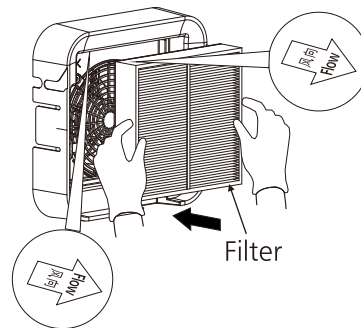
⚠ Otherwise, electric shock may be caused due to damaged wires.

The power cord must be fixed into each buckle

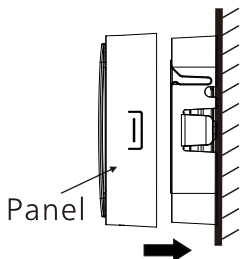
- ⑧ Insert the main unit into the air duct with the wiring box facing up, and then fix the main unit with two expansion screw columns. (Be sure to keep the main body horizontal)



- ⑨ Install the filter back into the main unit with the black side facing the main unit, making sure that the air direction arrows on the filter are in the same direction as those on the main unit.



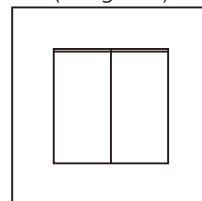
- ⑩ Install the panel onto the main unit.



- ⑪ Attach the supplied filter maintenance reminder label next to the wall switch and fill in the filter install date on the label, so that you can clean or replace the filter on schedule.

Wall switch (optional)
(Diagram)

Filter maintenance reminder label (Supplied)



Filter Maintenance	
การเตือนการบำรุงรักษาแผ่นกรอง	
Filter No. รุ่นของแผ่นกรอง	FV-FP06PHP1
Date installed วันที่เริ่มใช้งาน	

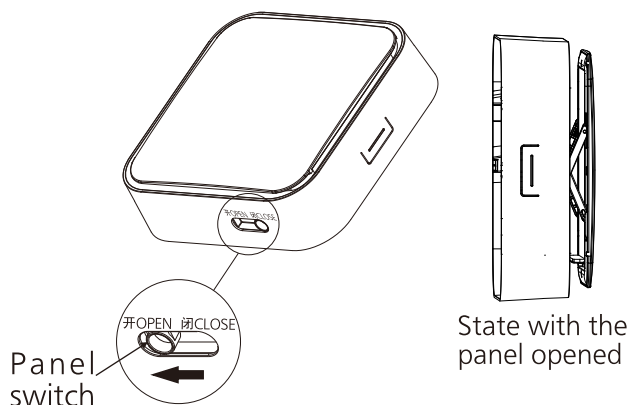
Notice

Check that the panel is properly installed onto the main unit.

- ① The bottom of the panel fits the surrounding wall.
- ② The panel should not be unbuckled by a gentle pull.

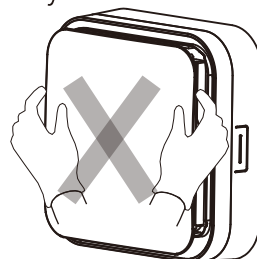
TEST RUN

Toggle the panel switch to "Open" to open the panel, and then start a trial run to check whether the product operates properly.



Notice

- Do not operate the product when the panel is closed. Otherwise, the product may be damaged.
- Closing the panel cannot stop operation of the product. Please turn off the wall switch to stop running the product.
- Open or close the panel by the panel switch. Do not pull to open or close the panel directly with your hands.



USE AND MAINTENANCE INSTRUCTIONS

⚠ WARNING

- Turn off the power before maintenance.

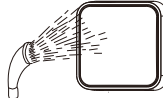
⚠ Otherwise, electric shock may be caused.

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

⚠ This product may cause injuries once it falls off.

- Do not spray water or any other liquids directly onto the product.

⚠ Otherwise, electric shock may be caused due to a short circuit.



⚠ CAUTION

- When you clean this product, please wear gloves.

⚠ Otherwise, may lead to injury.

- Take care to protect your eyes when cleaning or replacing the filter.

⚠ Otherwise, dust, insects or the like attached to the filter may fall off and get into your eyes.

Notice

Stop running the product and close the panel in rainy or windy weather, and make sure that the panel is close completely. Otherwise, noise may be caused or water may enter the room.

MAINTENANCE

Notice

- See Page 7 for how to open/close the panel.
- Do not operate the product when the panel is closed. Otherwise, the product may be damaged.
- When the outdoor temperature is lower than the indoor temperature and the temperature difference is increasing and the ambient humidity is high, condensation may be caused. In this case, stop running the product and close the panel, to prevent condensation water from entering the room.
- Depending on the operating environment and time, the air volume and filtration efficiency may decrease. If the product is used in a harsh environment (where a large amount of dust is generated), the air volume and filtration efficiency of the product may decrease drastically. In order to maintain performance of the product, please increase the frequency of cleaning or replacing the filter accordingly. If the environment continues to deteriorate, choose the low notch to reduce the air volume or stop using the product temporarily, to prevent polluted air from entering the room.
- Clean the product only with neutral cleaning agent. Do not use the chemical agents or articles shown below, as they may corrode or scratch the product.

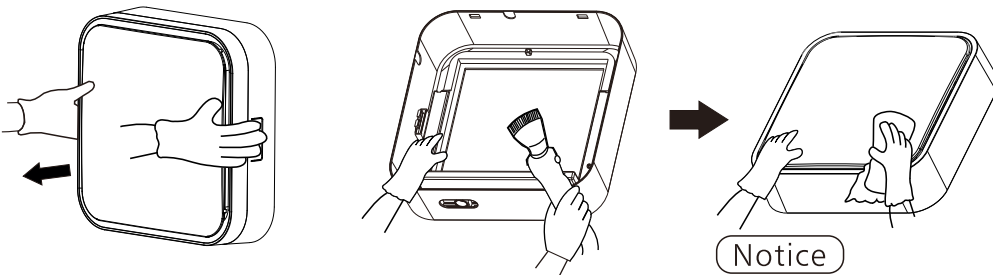


- Dry the product by wiping with a sofa clean cloth or air-dry naturally after cleaning the product. Do not heat it, otherwise the product may be damaged.
- See Pages 5 and 6 for how to remove and install the panel and filter.
- The cleaning cycle may vary with the actual operating environment.
- In order to prevent the dust adsorbed on the filter from spreading in the room during cleaning, it is recommended to clean the filter outdoors.
- If the product is abnormal after maintenance (like the main unit vibrates, the noise becomes louder, or no air comes out), the outdoor air inlet may be blocked. Please contact a professional for cleaning.

Cleaning

1. Panel (Once a month)

Press the buttons on both sides of the panel with your hands to remove the panel. Clean the dust off the inner surface of the panel with a vacuum cleaner, and then wipe it clean with a cloth.



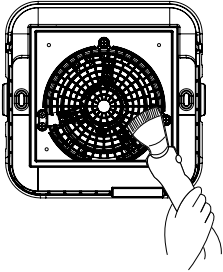
Notice

- ① Close the panel before cleaning.
- ② Do not use a cloth to wipe the sponge on the back of the panel.

MAINTENANCE

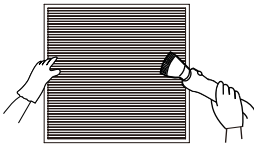
2. Main unit (Once a month)

Clean the dust off the area of the main unit where the filter is placed on with a vacuum cleaner.



3. Filter (Once a month)

Clean the dust on the black side with a vacuum cleaner. The white side does not need to be cleaned.



Notice

- ①The filter is not washable.
- ②Do not press hard when cleaning, as the filter may be damaged.

Replacing the filter

1. Replacement cycle*: it is recommended to replace the filter once every 2 to 4 months.

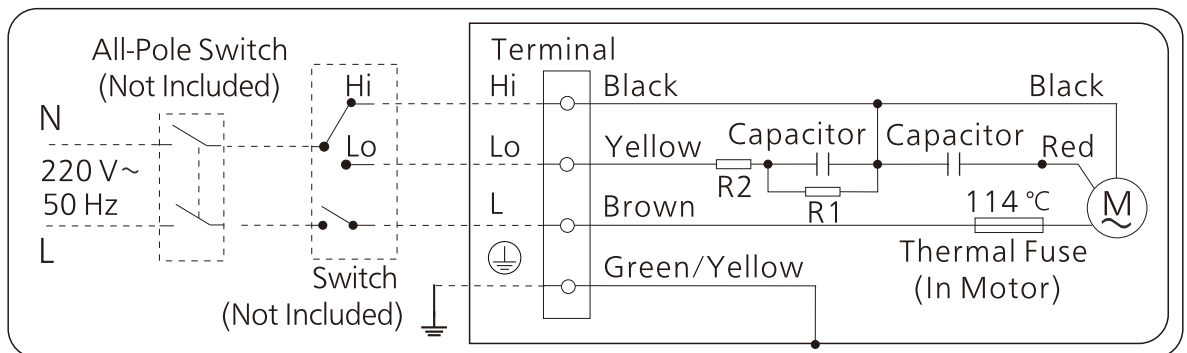
2. The replacement filter model is FV-FP06PHP1.

Fill in the filter install date on the new filter before replacement. Then, record the filter install date on the filter maintenance reminder label supplied with the new filter, and paste the new label on the old label. (Page 6)

3. Contact your dealer to replace the filter.

- ※ ①The replacement cycle may vary with the actual operating environment.
- ②When cleaning the filter, if the white side of the filter becomes completely black or the operation noise becomes significantly larger, replace the filter in time.

WIRING DIAGRAM



SPECIFICATIONS

Model No.	Notch	Rated voltage [V]	Rated frequency [Hz]	Power consumption [W]	Air volume [m ³ /h]	Noise [dB(A)]	Weight [kg]
FV-06PHP1	Hi	220	50	7.5	63	36	1.8
	Lo			3.2	32	25	

- The power consumption, air volume and noise are measured with a static pressure of 0 Pa and the installed pipe length of 300 mm.
- Noise value is the weighted sound pressure grade A, which is the central value measured by this company, its tolerance range is from +3 dB to -7 dB. The method to measure is as follows: in an anechoic chamber, measure noise value first 1 m away from the left, right and front of the sample, then get the averaged value.
- Air volume is the central value measured by this company with $\pm 10\%$ of tolerance range.
- Insulation class E

The above specification may be changed without further notice.