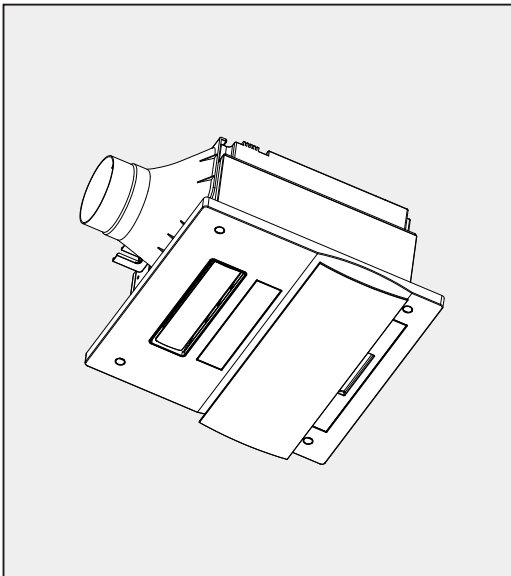


INSTALLATION AND OPERATING INSTRUCTIONS Thermo Ventilator Model No. FV-30BG4H

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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.2~4) 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.17~18) of this instructions before operation.

Please retain this booklet for future reference.

- Disconnect power supply before maintenance.
- 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.
- 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 the safety. Children should be supervised to ensure that they do not play with the product.

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.
- **Please select 60227 IEC 53 ordinary polyvinyl chloride sheathed cord.**
 Nominal cross-sectional area of conductors is $3 \times 1.5 \text{ mm}^2$.
 Otherwise, it may be on fire.
- **Make sure the power cord is installed firmly.**
 Otherwise, a fire may be caused.
- **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 install the product near curtains and other flammable materials.



Otherwise, combustibles may be inflamed.

- To avoid danger arising from wrong resetting of the thermal circuit breaker, the product can not be powered by using an external switch. For example, by a timer or connecting to a circuit that is connected/disconnected through timing of a universal part.



Otherwise, a fire may be caused.

- Please install a suitable all-pole switch which the contact separation is more than 3 mm. Please install the all-pole switch out of the bathroom where it is easily controlled.



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

- Do not operate the product other than the rated voltage (220 V~ 50 Hz).



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

- Disconnect power source before working on the product.



Otherwise, an electric shock may be caused.

- 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.

- The product is installed so that switches cannot be touched by a person in the bath or shower.



Otherwise, an electric shock may be caused.

- 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.

- The product can not be located just below a power outlet socket.



Otherwise, a fire may be caused.

CAUTION

- Please ensure two persons perform the installation of the product.



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, it may fall off to cause personal injury.

- The product should not be mounted on a ceiling or with suspenders not strong enough. If it cannot be ensured to bear the weight of the mounted product, that wall must be reinforced. Suspenders and wooden frame must be subjected to static load more than five times the weight of the product.



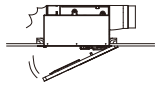
Otherwise, it may fall off to cause personal injury.

INSTALLATION INSTRUCTIONS



CAUTION

- Components must be installed tightly.



Otherwise, it may fall off to cause personal injury.

- Do fix this product tightly.



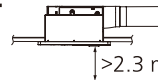
Otherwise, it may fall off to cause personal injury.

- Do not reconstruct this product.



Otherwise, it may cause damage to the product or personal injury.

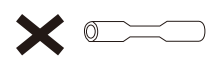
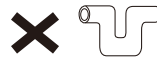
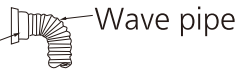
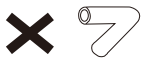
- Install this product over 2.3 m above the floor.



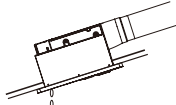
Avoiding any accidents

INSTALLATION REQUIREMENTS

- Do not form the duct as shown below:



- Do not install onto slanting ceiling.

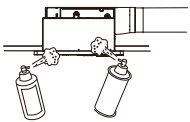


Prevent the water condensed in the duct pipe flow back into the body.

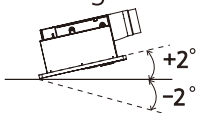
- Do not install the product in steam sauna bathroom.



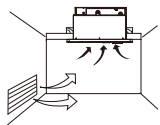
- Do not install the product in the places where the sprayer is used.



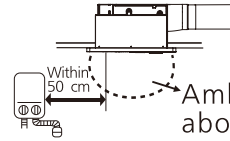
- Please make sure the product is installed horizontally and the deviation angle within the range as below figure.



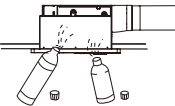
- Please set ventilation holes.



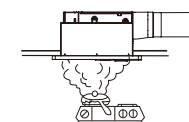
- Do not install the product in places with high temperature.



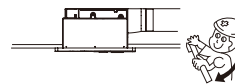
- Do not install the product in the places where the organic solvent is used.



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



- When the ceiling is unable to dismantle, please set a square inspection hole of at least 45 cm (The inspection hole should not be directly under the duct pipe).



Convenience for installation and maintenance.





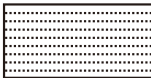


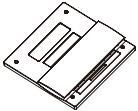




- Do not install this product in a public bath room.

- Do not install this product in a wardrobe.

INSTALLATION REQUIREMENTS

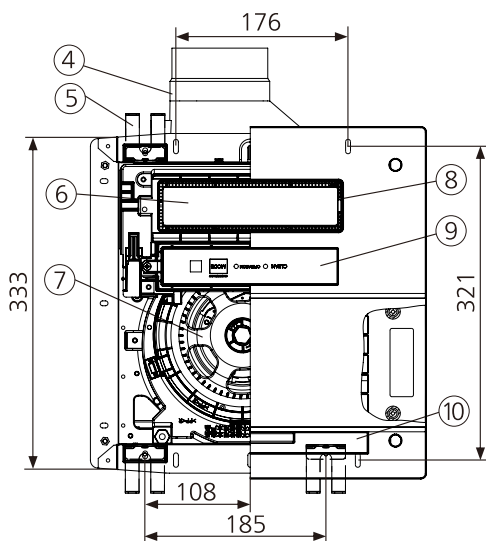
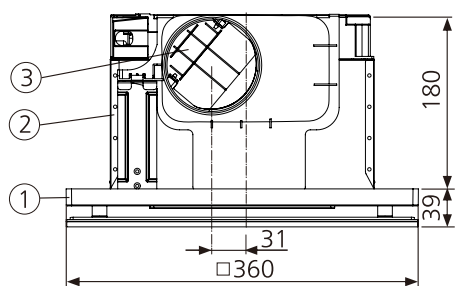
- The product is not provided with power cord, all-pole switch and leakage protection switch. Please purchase them in market. For ease of subsequent disassembly and maintenance, please leave approximately 1.5 m of extra power cord.
- The pipe for hanging clothes should be installed at the position of 250 mm apart from the product, please see P.16 for details.
- When you install plastic part, do not exert too much strength to fixing the screw, otherwise, the product would be damaged.

SUPPLIED ACCESSORIES

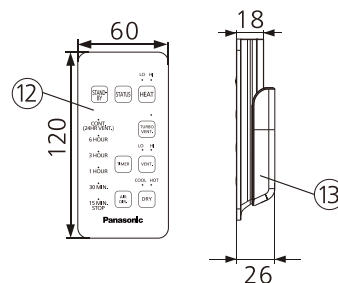
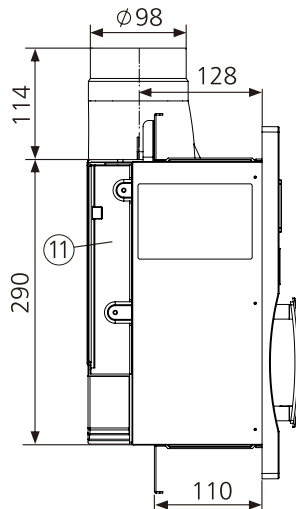
No.	Drawing	Name and Purpose	Qty
①		Machine screw (M4×8, used to install the louver assembly)	4
②		Self-tapping screw (ø4×20, used to install the main body and adapter and prevent the main body from falling)	2
③		Self-tapping screw (ø4 x 13, used to install the main body and the suspension bracket)	3
④		Remote membrane	1
⑤		Product warranty registration	1
⑥		Installation and operating instructions	1
⑦		Adapter	1
⑧		Louver assembly	1
⑨		Remote control assembly	1
⑩		Self-tapping screw (ø4x16, used to install the remote control base)	2
⑪		R03(AAA) Manganese battery	2
⑫		Suspension bracket	3

PART NAME AND DIMENSIONS

Unit: mm



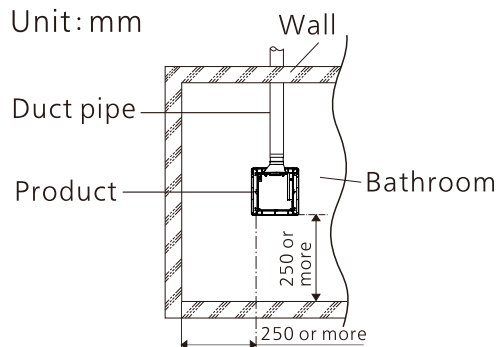
No.	Part name	No.	Part name
①	Louver assembly	⑦	Fan
②	Main body	⑧	Heater assembly
③	Shutter	⑨	Mode button panel
④	Adapter	⑩	Filter assembly
⑤	Suspension bracket	⑪	Cord cover
⑥	Baffle plate	⑫	Remote control
		⑬	Controller holder



WORK BEFORE INSTALLATION

1. Confirmation before installation

Unit: mm

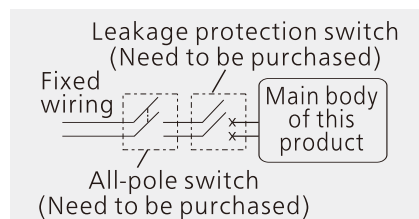


Notice

- (1) Install this product over 200 mm apart from curtains or other flammable materials. (When the mounting hole is adjacent to curtains or other flammable materials, ensure that more than 250 mm gap is required between the hole edge and wall.)
- (2) The distance between ceiling board where the product is mounted and ceiling shall be over 200 mm.
- (3) Install this product over 250 mm apart from walls.
- (4) Please reserve a sufficient length of the power cord for easy installation.

2. Preparation before installation

Install an all-pole switch with the contact separation not less than 3 mm and a leakage protection switch (with the leakage current lower than 30 mA) between the fixed wiring and the main body of this product.



HOW TO INSTALL

1. Main body installation Method 1 Ordinary ceiling mounting

① Open a 300 mm x300 mm mounting hole in the ceiling board.

② Fix the suspenders (M8 or M10, need to be purchased) on the ceiling according to dimensions on right.

③ Install the suspension brackets.

(1) Fix the suspension brackets to the suspenders.

(2) Fix the adapter and suspension brackets to the suspenders with nut.

(3) Adjust the nut on the suspenders to make the suspension bracket bottom cling to the ceiling board.

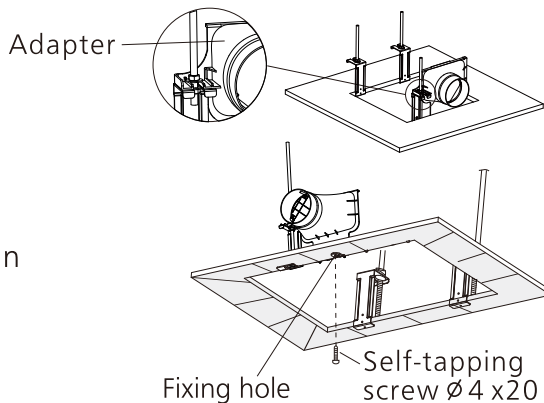
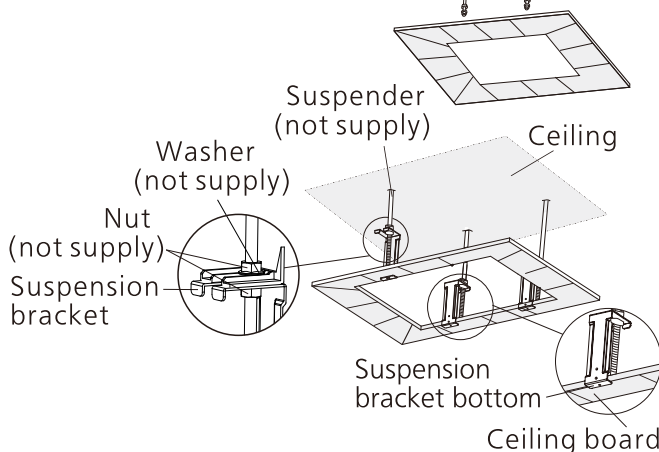
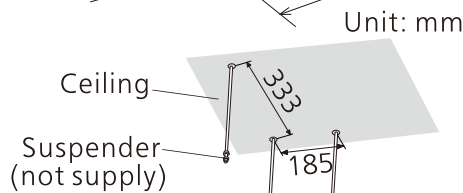
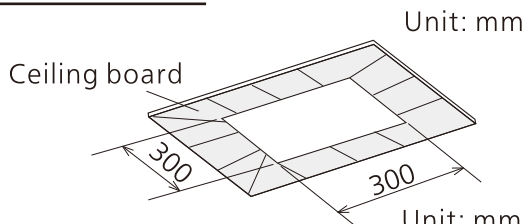
Notice

Make sure that the suspension bracket bottom clings to the ceiling board; otherwise the main body cannot be installed successfully.

④ Fix the adapter to the ceiling board using one of the supplied $\phi 4 \times 20$ self-tapping screw. (Make the fixing hole in the middle.)

⑤ Connecting the duct pipe \rightarrow Refer to Section 4. Connecting duct pipe on P. 10.

⑥ Connecting power cord



⚠ WARNING



To avoid electric shock or fire, do not remove the PCB cover.



Please select 60227 IEC 53 ordinary polyvinyl chloride sheathed cord. Nominal cross-sectional area of conductors is $3 \times 1.5 \text{ mm}^2$.



For the stripping length, please prepare according to the wiring sketch (refer to figure 1). If the stripping length is too long, it may cause short circuit.

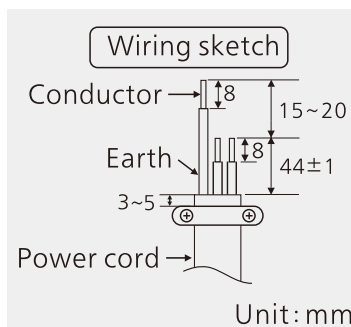


Figure 1

HOW TO INSTALL

⚠ WARNING

- ⚠ Do not damage the sheath of the power cord, otherwise an electric shock or short circuit may be caused.
- ⚠ Strand the core wire together after stripping, then insert them into about 8 mm deep position of the terminal block, ensuring that the part is under the spring slice, and no copper core cord is exposed outside. Make sure that the copper core cords are fixed by screws reliably (the recommended screw fixing torque is 0.49 N·m) (See Figure 2). Otherwise an electric shock may be caused.

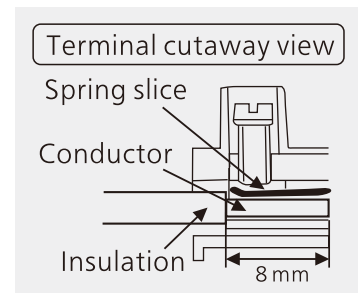


Figure 2

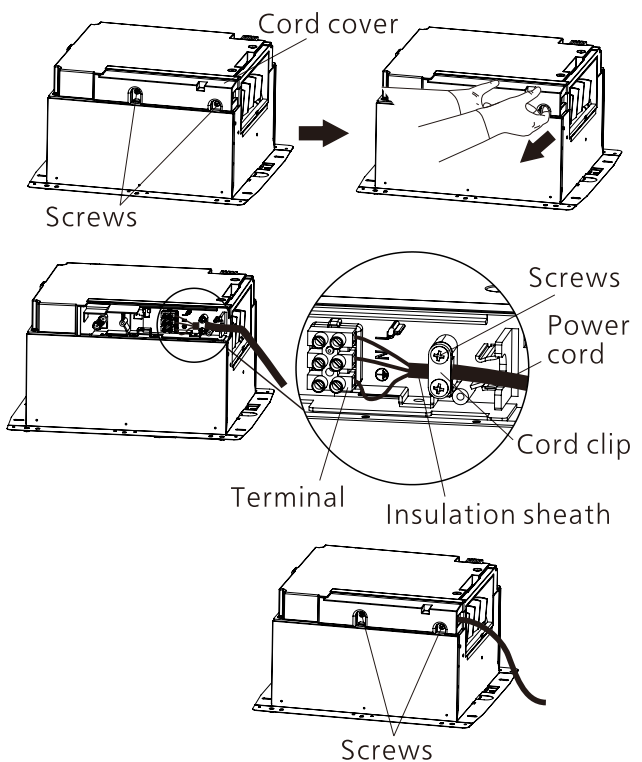
(1) Remove the screws (2 pcs) on the cord cover, then open the cord cover.

(2) Loosen the screws of the cord clip.

(3) Loosen the screws of the terminal, insert the indoor power cord (not supplied) into the terminal, then tighten the screws. Fix the power cord with the cord clip. (The cord clip must pin the insulation sheath of power cord.)

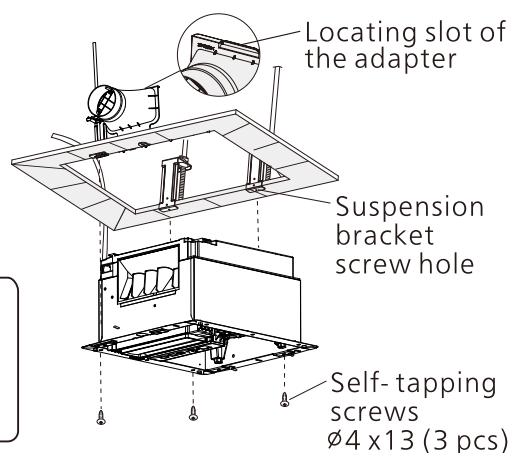
(4) Fix the cord cover by the screws which removed by step (1).

⑦ Push the main body upward into the ceiling board and wooden frame by closely leaning against the adapter, clip the clipping position of the main body into the locating slot of the adapter (otherwise, it may have air leakage), and fix the main body with three $\phi 4 \times 13$ self-tapping screws.



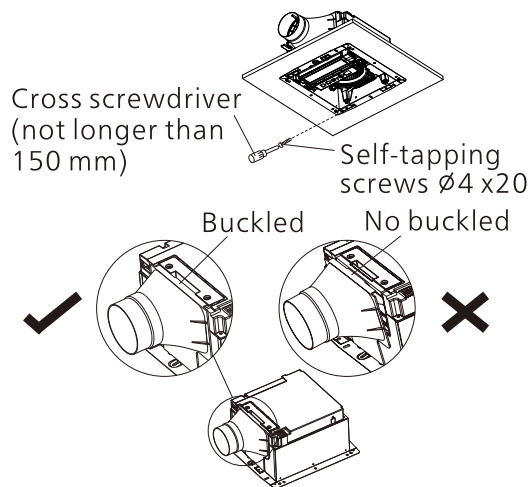
⚠ CAUTION

The screws for fixing the main body to the ceiling board should go through the hole of the suspension brackets, otherwise, product may fall down.



HOW TO INSTALL

- ⑧ Use one $\phi 4 \times 20$ self-tapping screw to fix the main body. Be sure to fix this screw because it can prevent the main body from falling off the ceiling board.
- ⑨ After completion of the installation work, be sure the condition between the main body and the adapter is proper. It can be checked from the inspection hole.



Notice

If adapter fails to cling to the main body, it may cause air leakage.

2. Main body installation Method 2 Ceiling board has not been installed

- ① Fix the suspenders (M8 or M10, need to be purchased) on the ceiling according to dimensions on right.

Unit: mm

- ② Install the suspension brackets.

- (1) Fix the suspension brackets to the suspenders.

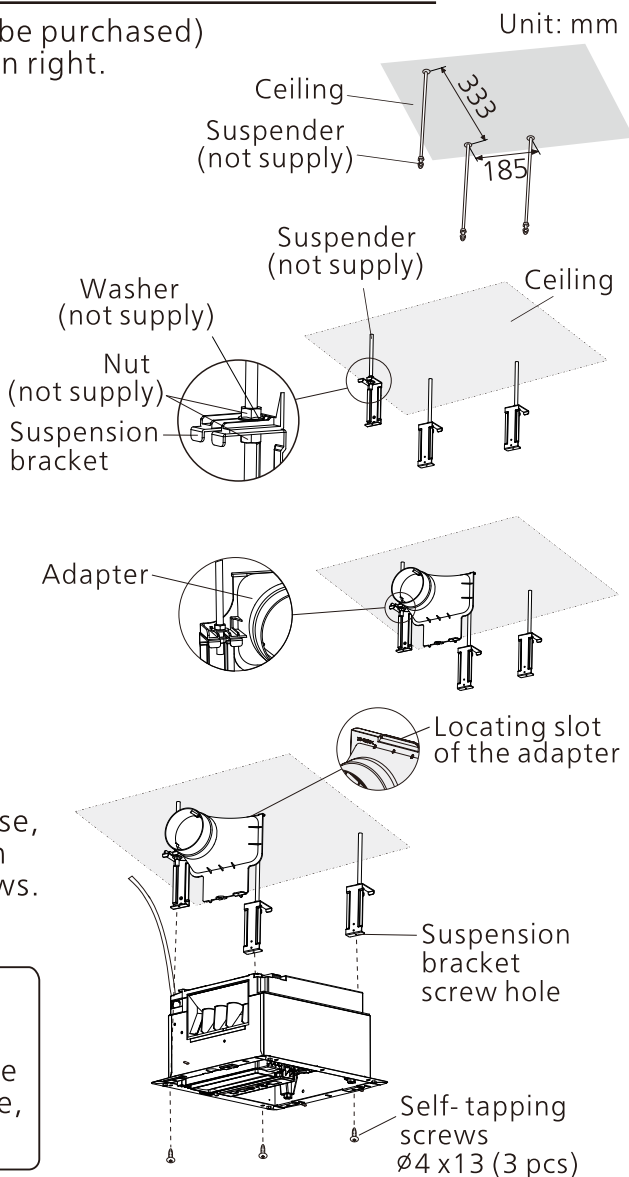
- (2) Fix the adapter and suspension brackets to the suspenders with nut.

- (3) Adjust the nut on the suspenders to make the height of the three suspension brackets from the ceiling consistent.

- ③ Connecting power cord → Refer to Section ⑥ on P.7~8.

- ④ Connecting the duct pipe → Refer to Section 4. Connecting duct pipe on P.10.

- ⑤ Push the main body upward by closely leaning against the adapter, clip the clipping position of the main body into the locating position of the adapter (otherwise, it may have air leakage), and fix the main body with three $\phi 4 \times 13$ self-tapping screws.

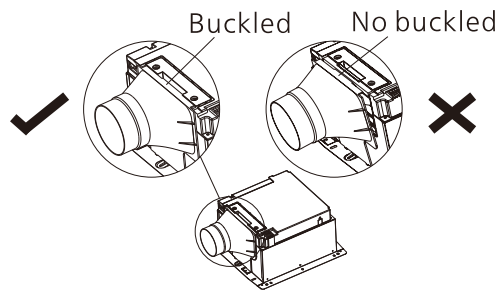


CAUTION

The screws for fixing the main body to the suspension brackets should go through the hole of the suspension brackets, otherwise, product may fall down.

HOW TO INSTALL

- ⑥ After completion of the installation work, be sure the condition between the main body and the adapter is proper.



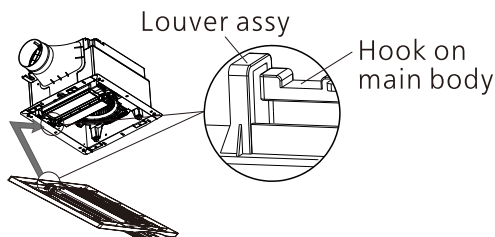
Notice

If adapter fails to cling to the main body, it may cause air leakage.

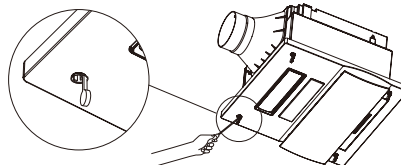
- ⑦ Install the ceiling board

3. Installing louver assembly

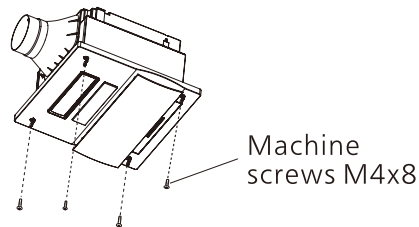
- ① Hang the louver assy into the hook on the main body.



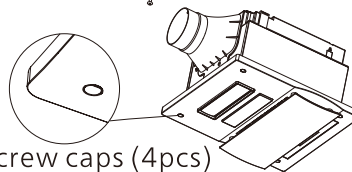
- ② Insert a straight screwdriver into the gap of the screw cap, and unclench the screw cap outward.



- ③ Fix the louver to the main body with four M4 x 8 machine screws provided in accessory package.



- ④ Attach the unclenched screw caps again.

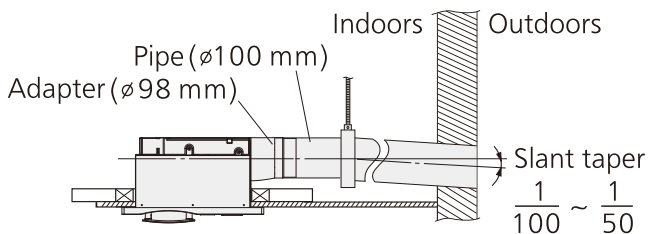


- ⑤ Please remove the protective film on the mode button panel on main body after finishing the installation.

4. Connecting duct pipe

- ① Install the duct pipe onto the adapter, and then bind them tightly with adhesive tape. Suspend the duct pipe from the ceiling to prevent external force exerted on the unit body. The duct pipe connected to outside of the room must be slanted to prevent rain or condensed water from flowing backwards. (This duct pipe should be as short as possible. Please connect straight pipe to prolong the duct pipe. Total length of the duct pipe should be shorter than 30 m.)

- ② Install the pipe cap or pipe cover on the external wall. (Please purchase pipe cap or pipe cover according to pipe size)



Notice

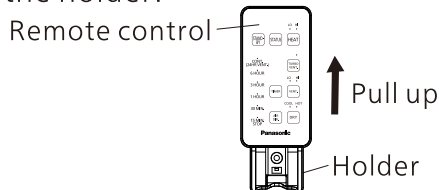
The minimum diameter of the hole: $\phi 110$ mm.

(For specific hole requirements, please refer to the instructions of the selected pipe cover or pipe cap.)

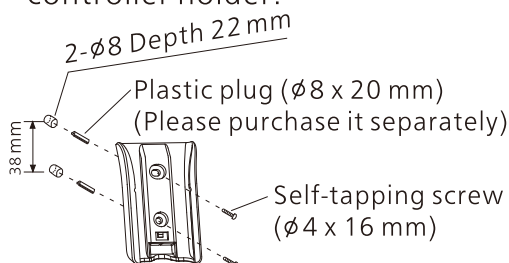
HOW TO INSTALL

5. Installing the remote control

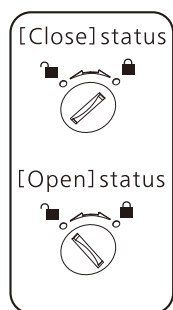
- ① Take out the remote control from the holder.



- ②-2 Open two $\phi 8$ holes in the bathroom wall as shown below. And install the controller holder.



- ③ Install two R03(AAA) manganese batteries in the remote control.



- (1) Rotate the knob "⊗" leftward to the "⊕" position.

- (3) Install two R03(AAA) manganese batteries in the remote control. (Pay attention to the directions of "⊕" and "⊖")



- (2) Open the battery cover.

- (4) Replace the battery cover.

- (5) Rotate the knob "⊗" rightward to the "⊕" position.

Knob

- ④ Please put the remote control back to the holder.

Notice

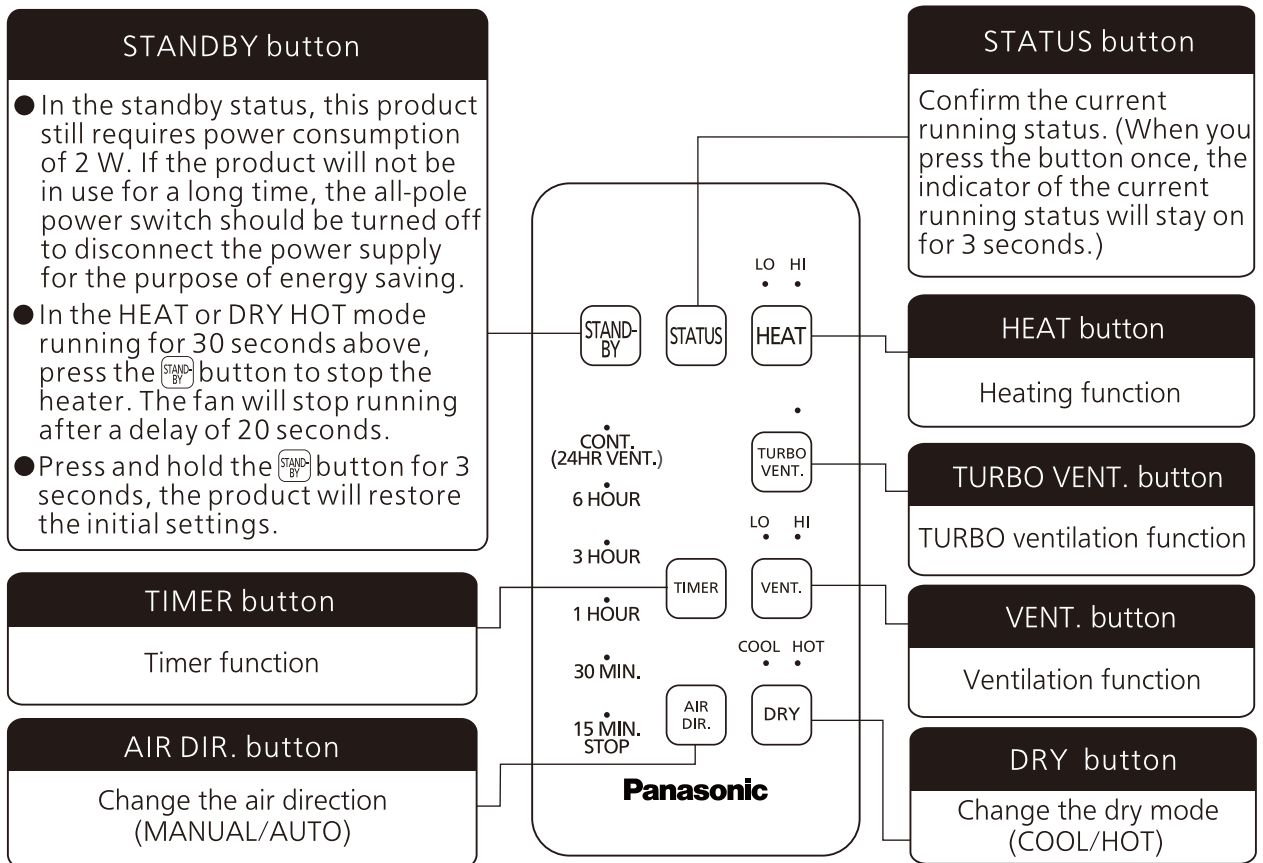
1. If you will not use the remote control for a period of time, take out the batteries.
 2. Do not replace the batteries when the remote control body is wet.
 3. Do not exert too hard when you rotate the "⊗" knob on the remote control back, otherwise the knob will be damaged.
 4. If the battery cover is not tightened, it will affect the sealing effect.
- When the battery leaks, avoid direct skin contact with the battery, and dispose the battery.
 - Please comply with local laws and regulations when dispose the battery.

TEST RUN

After connecting the power, please check the following item using the remote control:

- Does the fan revolve normally?
- Does it have abnormal vibration or noise?
- Does it blow out hot air?
- Is each button on remote control perform its right function?

FUNCTION OF REMOTE CONTROL



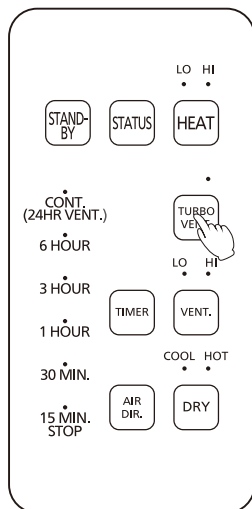
Notice

1. When the HEAT mode or DRY HOT mode is switched to the ventilation mode, the fan blade will run at a low speed for 20 seconds to cool the heater down, then enter the ventilation mode.
2. When you use the mode button on the mode button panel on main body, then press the **STATUS** button on remote control, the status displayed by the remote control may differ from the actual product status.
3. If there is no sound from product after you press the remote control, it means the product does not receive the remote control signal, you need to reoperate.
4. Please remove the protective film on the remote control before use.

HOW TO USE TURBO VENTILATION FUNCTION



Used to TURBO ventilate the bathroom



When there is a lot of steam after bathing, you can use the **TURBO VENT.** mode to quickly remove moisture from the bathroom.

① Press the **TURBO VENT.** button to start the TURBO ventilation mode.

※ The indicators of TURBO VENT. and setting time (15 MIN.) light on, then turn off automatically after about 3 seconds.

② To confirm the current running mode and remaining time for reference, press the **STATUS** button.

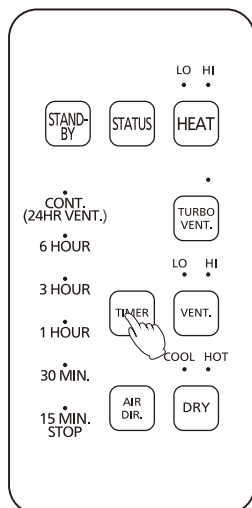
③ This product will stop automatically when the set time is up.

④ To stop midway in operation, press the **STAND-BY** button.

HOW TO USE TIMER FUNCTION



For running time adjusted



During operation, you can press the **TIMER** button to change the running time.

After the running time is set once, the system will automatically memorize the last running time of each mode.

To cancel the automatic memory content, press and hold the **STAND-BY** button for about 3 seconds.

HEAT mode

15 MIN. ~ 3 HOUR Default settings 15 MIN.

VENT. mode

15 MIN. ~ 6 HOUR ~ CONT. Default settings 15 MIN.

DRY HOT mode

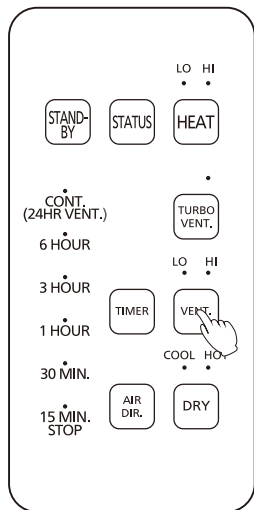
15 MIN. ~ 6 HOUR Default settings 15 MIN.

DRY COOL mode

15 MIN. ~ 6 HOUR ~ CONT. Default settings 15 MIN.

HOW TO USE VENTILATION FUNCTION

VENT. Used to ventilate the bathroom

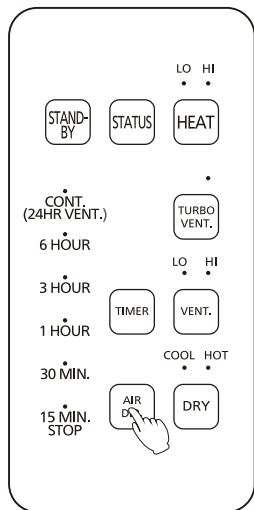


After bathing, you can use the **VENT.** mode to remove moisture from the bathroom.

- ① Press the **VENT.** button to start the ventilation mode at the HI. It will switch to the LO. mode if you press this button again.
 - ※ The indicators of VENT. and default setting time (15 MIN.) light on, then turn off automatically after about 3 seconds.
- ② During operation, you can press **TIMER** to change the running time.
- ③ To confirm the current running mode and remaining time for reference, press the **STATUS** button.
- ④ This product will stop automatically when the set time is up.
- ⑤ To stop midway in operation, press the **STAND-BY** button.

HOW TO USE AIR DIRECTION FUNCTION

AIR DIR. For adjusting air direction

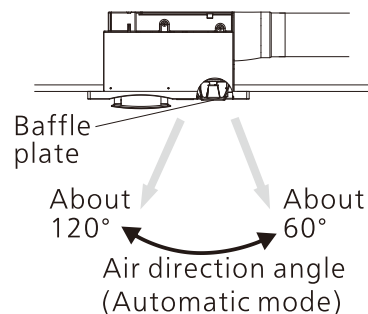


During running, you can press the **AIR DIR.** button to adjust the air direction.

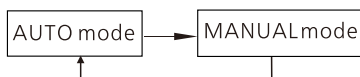
- ① The initial air direction setting of HEAT is MANUAL mode. The initial air direction setting of DRY HOT and DRY COOL is AUTO mode. You can press the **AIR DIR.** button change the mode between MANUAL and AUTO.

* AUTO mode: The baffle plate swings within the range of about 60° to 120°

* MANUAL mode: To fix the baffle plate angle, press the **AIR DIR.** button when the baffle plate turns to the required position. The baffle plate will stop.



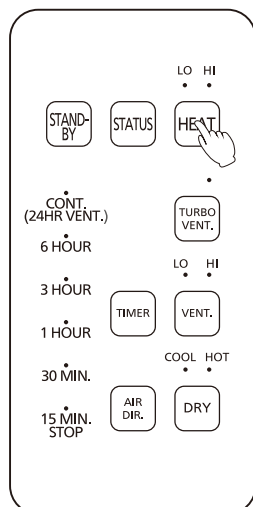
- ② The figure below shows switching sequence between the AUTO mode and MANUAL mode:



- ③ Air direction cannot be set in the ventilation mode.
- ④ Each mode will automatically memorize the air direction position set this time. To cancel the automatic memory content, press and hold the **STAND-BY** button for about 3 seconds.

HOW TO USE HEATING FUNCTION

HEAT Use when you feel cold in a bath



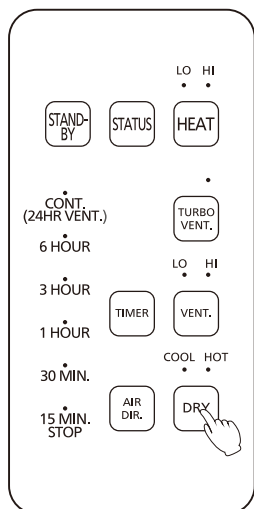
Before taking a bath, start the heating function to warm the bathroom beforehand.

- ① Press the **HEAT** button to start the HEAT mode at the HI. It will switch to the LO. mode if you press this button again.
 - ※ The indicators of HEAT and default setting time (15 MIN.) light on, then turn off automatically after about 3 seconds.
- ② During running, you can press **TIMER** to change the running time.
- ③ During operation, you can press the **AIR DIR.** button to change the air direction.
- ④ To confirm the current running mode and remaining time for reference, press the **STATUS** button.
- ⑤ This product will stop automatically when the set time is up.
- ⑥ To stop midway in running, press the **STAND-BY** button.
 - ※ In the HEAT mode running for 30 seconds above, press the **STAND-BY** button to stop the heater. The fan will stop running after a delay of about 20 seconds.

Notice

1. Hot startup function: After the product starts up in the HEAT mode when the temperature in the bathroom is lower than 20 °C, it enters the hot startup status to avoid blowing of cold air, and the fan runs at a low speed. When the temperature in the bathroom reaches 20 °C or above or after running for about 60 seconds, the hot startup status stops and the fan runs at a high speed.
2. Heater may stop heating when temperature in bathroom is up to required degree, and may restart heating as the temperature in bathroom cools down.

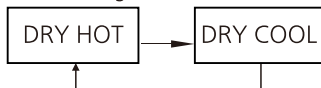
HOW TO USE DRYING FUNCTION



DRY Use when you need to dry the bathroom or clothes

- Press the **DRY** button to start the DRY HOT mode. It will switch to the DRY COOL mode if you press this button again.

(Initial settings)



- ※ The indicators of COOL or HOT and default setting time (15 MIN.) light on, then turn off automatically after about 3 seconds.
- ② During running, you can press **TIMER** to change the running time.
- ③ To confirm the current running mode and remaining time for reference, press the **STATUS** button.
- ④ This product will stop automatically when the set time is up.
- ⑤ To stop midway in running, press the **STAND-BY** button.
- ※ In the DRY HOT mode running for 30 seconds above, press the **STAND-BY** button to stop the heater. The fan will stop running after a delay of about 20 seconds.

To use the drying function to dry clothes, please install the product as shown on the right:

Unit: mm

⚠ WARNING

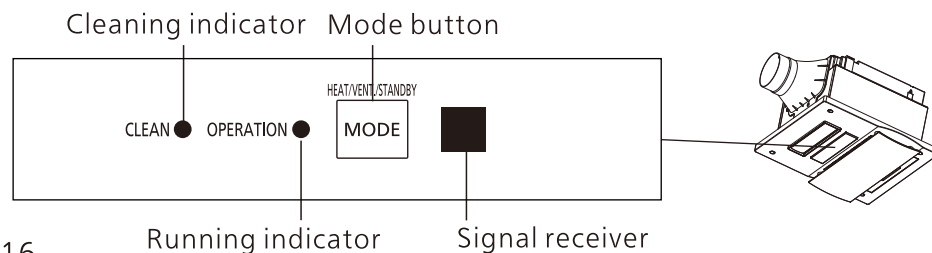
! This appliance is intended only for drying textiles washed in water. Otherwise, it may cause damage.



To make the effect of drying clothes better, please set a ventilation shutter at the lower part of the door with a valid opening area of 100 cm² or above.

MODE BUTTON PANEL ON MAIN BODY

When the remote control is lost or does not work, you can use the MODE button panel on the front surface of the main body to operate the product. (Each time can be operated for 15 mins)



MODE BUTTON PANEL ON MAIN BODY

1. The MODE button can be used to switch among the following functions:



2. Conditions of the cleaning indicator and running indicator.

Run status	Cleaning indicator	Running indicator
Stop	Off	Off
Normal running	Off	On
Abnormal running	Off	Blinking fast* ¹
Normal running + Cleaning indication	Blinking fast	On
	On	On
During the hot startup	Off	Blinking slow* ²

When the running indicator blinks quickly or cleaning indication lights on, please disconnect the power supply, and contact customer consultation service center or your distributor.

※1 Blinking fast: On for 0.5 seconds and off for 0.5 seconds

※2 Blinking slow: On for 1 second and off for 1 second



WARNING

 Do not press the MODE button during a bath or shower in the bathroom. Otherwise, you may slip.

USE AND MAINTENANCE INSTRUCTIONS



WARNING

■ Do not disassemble this product for repair or reconstruction.



Doing this may lead to fire and electric shock.

■ Before touching the main body of this product or cleaning this product, make sure that the "all-pole switch" connected to this product is disconnected.



Otherwise, may lead to electric shock.

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



Doing this may generate spark and thus lead to explosion.

■ To avoid low-temperature scalding, do not directly blow the same part of the body with hot wind for a long time (2 hours or above).



Doing this may lead to low-temperature scald.

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



Doing this may lead to short circuit or electric shock.

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



This product may cause injuries once it falls off.


USE AND MAINTENANCE INSTRUCTIONS

WARNING

- If the product will not be in use for a long time, please use the "all-pole power switch" to disconnect the power supply.


 Otherwise, may lead to electric shock.

- Do not use battery of broken casing.


 If the insulation or exhaust valve is damaged, the battery may become hot, crack.

- Please observe the following when using the batteries.


- Do not inversely install the positive pole and negative pole of batteries.
- Do not use an old battery together with a new battery or use different types of batteries in a mixed way.
- Do not short circuit.
- Do not charge non-rechargeable batteries.
- Do not use any repaired or damaged batteries.

 Otherwise, leakage or damage may be caused.


- If the alkaline liquid of battery enter eyes, clean the eyes with lots of water and seek medical help immediately, but not rub eyes with hands.

 Otherwise, it may cause blindness, etc.


- Do not clean the heating part or let water flow into the electric motor or electrical parts.

 Otherwise, may lead to electric shock.

- Do not store the batteries within the reach of children or infants.

 Swallowing may cause chemical burns, soft tissue perforation, or even death. Severe burns may be caused within 2 hours upon ingestion. If the battery is swallowed, seek medical help immediately.

- Remove the batteries from the remote control when they are discharged or not used for an extended period of time.


 Otherwise, the battery may leak, heat up or rupture.

- Do not throw the batteries into fire, or heat, disassemble or modify batteries. Do not expose the batteries to excessively high temperatures. Be aware of the risk of terminals of the battery-operated appliance or battery being short-circuited by metal objects.

 If the insulation or exhaust valve is damaged, the battery may leak, heat up or rupture.

CAUTION

- When you clean this product, please wear gloves.

 Otherwise, may lead to injury.

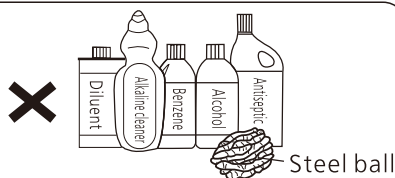
Notice

1. Do not swing the baffle plate, otherwise the baffle plate may operate in inaccurate angles.
2. The bathroom size may affect the heating performance of this product.
3. The applicable ambient temperature of this product is in the range of $-10^{\circ}\text{C} \sim 40^{\circ}\text{C}$, using it out of this range may cause a fault.

Cleaning Precautions

Cleaning the louver assembly:

1. To prevent color change and accelerated aging of the panel, do not use any type of diluent, alkaline cleaner, benzene, alcohol, antiseptic, or steel ball as is shown.
2. To use a chemical cloth, clean this product by following the instructions.

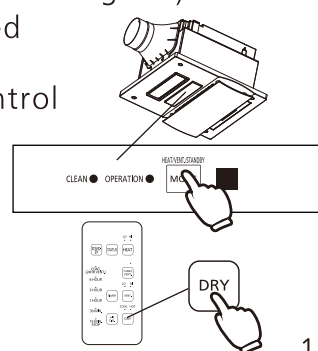
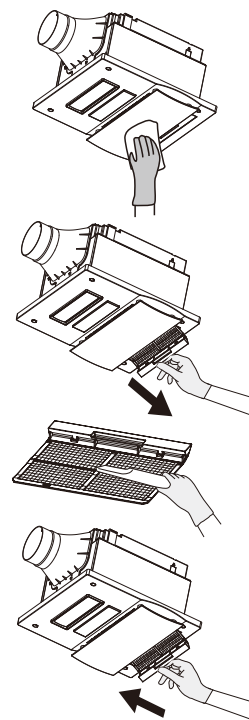


Cleaning the filter:

1. Do not use any type of diluent, alkaline cleaner, benzene, alcohol, antiseptic, or steel ball as is shown.
2. When the cleaning indicator at the receiving part of the main body blinks, it is time to clean the filter. You need to clean the filter. (When the accumulated running duration reaches 2,200 hours (continuous running about three months), the filter cleaning indicator will blink.)

Cleaning the louver assembly and filter

- ① Shut off the all-pole switch.
 - ② Wipe the front panel and the panel base with a soft cloth.
 - ③ Remove the filter from the louver assembly.
 - ④ Use a vacuum cleaner to remove dust from the filter.
 - ⑤ Reinstall the filter assembly.
 - ⑥ Turn on the all-pole switch.
 - ⑦ Clear the filter cleaning indication at the receiving part of the main body. Press and hold the MODE button at the mode button panel on main body or **DRY** button of remote control for about 3 seconds. After releasing the button, a "beep" means the filter cleaning indication is cleared. (The accumulated time of the filter cleaning indication will be reset, and the time will be accumulated again.)
- ※ Each time cleaning the filter or the main body, you are advised to reset the accumulated time of the cleaning indication.
- Press and hold the MODE button or **DRY** button of remote control for about 3 seconds, then releasing the button, a "beep" sound means the resetting is done, the accumulated time of the filter cleaning indication will be reset.
 - Press and hold the MODE button or **DRY** button of remote control for about 10 seconds, a "beep" sound means the resetting is done, the accumulated time of the main body cleaning indication will be reset.



ANTIBACTERIAL FUNCTION

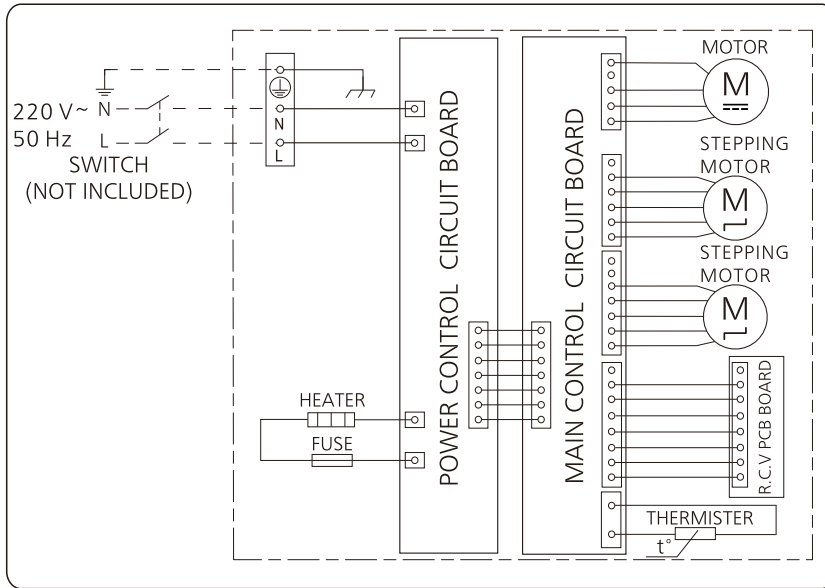
- ※The filter mesh in the filter mesh assembly provides the antibacterial function, with the antibacterial ratio against staphylococcus aureus and the antibacterial ratio against colibacillus up to 99.9% respectively (test basis: JIS Z2801).
- ※As the use time increases, the antibacterial performance of the filter mesh will decrease accordingly.

TROUBLESHOOTING

Check the product according to the table below if a fault occurs. If an error still occurs, check that the all-pole switch connected to this product is disconnected, and contact customer consultation service center or your distributor.

	Symptom	Cause	Troubleshooting
Air	No hot wind blow out	The heater may fail	Contact customer consultation service center or your distributor
	Air volume reduced	The filter may be blocked	Clean the filter
Remote control	Remote control does not work	The batteries may be exhausted	Replace the batteries
		The signal receiver may be obstructed or dirty.	Please remove the obstacle or clean the signal receiver
Mode button panel on main body	The cleaning indicator blinks quickly	It's time to clean the filter	Clean the filter
	The running indicator blinks quickly	The product is error	Contact customer consultation service center or your distributor
	The cleaning indicator lights on	It's time to clean the main body	

WIRING DIAGRAM



SPECIFICATIONS

Model No.	Rated voltage [V]	Rated frequency [Hz]	Power consumption [W]	Rated current [A]	TURBO air volume [m ³ /h]	Air volume [m ³ /h]		Weight [kg]
						HI	LO	
FV-30BG4H	220	50	2000	9.1	220	190	80	4.7

Power Consumption [W]				Noise [dB(A)]			
Heat	Dry		TURBO vent	Heat	Dry		TURBO vent
	Hot	Cool			Hot	Cool	
2000	1760	19	25	46	46	46	44

- Power consumption and rated current are obtained when the baffle plate is operating at 90°.
- Air volume, electric specification and noise value are measured when static pressure is 0 Pa.
- Noise value is the weighted sound pressure grade A, which is the central value measured by our company, its tolerance range is from +3 dB(A) to -7 dB(A). The method to measure is as follows: in an anechoic chamber, measure noise value first 1 m away from the left, right and beneath of the sample, then get the averaged value.
- Air volume is the central value measured by our company with ±10% of tolerance range.
- This product comply with the IPX2 requirement against the water drop test and its remote control comply with the IPX4 requirement against the water shower test.
- Insulation class E

The above specification may be changed without further notice.

CHECKS AFTER INSTALLATION

Check the following items before trial operation.
Be sure to put a tick mark in the corresponding tick box .
Perform trial operation after making these checks.

- (1) Product installation check Reference page
- Is the main unit installed securely, without looseness? Page 8~10
 - Are the product inlet and outlet kept unblocked? Page 12
 - (Method 1) Is the self-tapping screw $\phi 4 \times 20$ fixed the main body from inner?
..... Page 9
 - (Method 2) Is the self-tapping screw $\phi 4 \times 13$ fixed the main body in a
proper direction? Page 9
- (2) Electrical work check
- Is an earth leakage circuit breaker installed in the power supply? Page 6
 - Is a 220 VAC single-phase used for the power supply? Page 3, 21
 - Is the wiring connected according to the wiring diagram? Page 7, 8, 21
 - Are the power cable connected to the terminal block without looseness?
..... Page 8
 - Is the connected wiring secured with cable clips? Page 8
 - Is the earth connected? Page 2, 8
 - Is there enough spare in length for power cord (for easy installation,
removal and maintenance)? Page 6
- (3) Others
- Is there any air leakage from the joint between the duct and the adapter?
..... Page 10

*To prevent initial problems, be sure to perform the post-installation checks before hand-over to the customer.

Panasonic HVAC & CC Co., Ltd.

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

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Issue date: 05/2026
P0526-0 30BG44200 H