

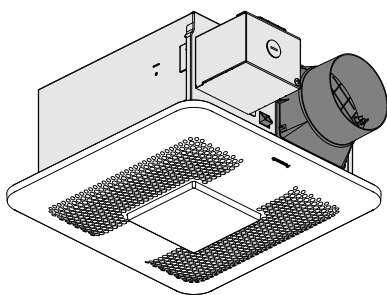
INSTALLATION INSTRUCTIONS

Ventilating Fan

ENGLISH

Model No. FV-0511VFBL1

Representative models:



FV-0511VFBL1

CONTENTS	
GENERAL SAFETY INFORMATION	2-4
DESCRIPTION.....	4
UNPACKING.....	5
SUPPLIED ACCESSORIES.....	5
DIMENSIONS.....	5
WIRING DIAGRAM.....	6
FEATURES.....	6
INSTALLATION (RETROFIT)	7-9
INSTALLATION (NEW CONSTRUCTION).....	10-11
MAINTENANCE (CLEANING)	12
BLUETOOTH CONNECTION	BACK COVER
PRACTICAL GUIDE TO INSTALLATION ..	BACK COVER
SPECIFICATIONS.....	BACK COVER
PRODUCT SERVICE.....	BACK COVER

READ AND SAVE THESE INSTRUCTIONS

Thank you for purchasing this Panasonic product.
Please carefully read the section “IMPORTANT SAFETY INFORMATION”. 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 present this manual to users.
Please retain this manual for future reference.

GENERAL SAFETY INFORMATION

For Your Safety

To reduce the risk of injury, loss of life, electric shock, fire, malfunction, and damage to equipment or property, always observe the following safety precautions.

Explanation of symbol word panels

The following symbol word panels are used to classify and describe the level of hazard, injury, and property damage caused when the denotation is disregarded and improper use is performed.



Denotes a potential hazard that could result in serious injury or death.



Denotes a hazard that could result in minor injury.



Denotes a hazard that could result in property damage.

The following symbols are used to classify and describe the type of instructions to be observed.

	This symbol is used to alert users to a specific operating procedure that must be followed in order to operate the unit safely.
	This symbol is used to alert users to a specific operating procedure that must not be performed.
	This symbol is used to alert users not to disassemble the equipment.
	This symbol is used to alert users to make sure of grounding when using the equipment with the grounding terminal.



TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS, OBSERVE THE FOLLOWING:

- Use this unit only in the manner intended by the manufacturer. If you have any questions, contact the manufacturer.
- Before servicing or cleaning unit, switch power off at service panel and lock the service disconnecting means to prevent power from being switched on accidentally. When the service disconnecting means cannot be locked, securely fasten a prominent warning device, such as a tag, to the service panel.
- Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards, including fire-rated construction.
- Sufficient air is needed for proper combustion and exhausting of gases through the flue (chimney) of fuel burning equipment to prevent back drafting. Follow the heating equipment manufacturer's guidelines and safety standards such as those published by the National Fire Protection Association (NFPA), and the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) and the local code authorities.
- When cutting or drilling into wall or ceiling, do not damage electrical wiring and other hidden utilities.
- Ducted exhaust fans must always be vented to the outdoors.
- If this unit is to be installed over a tub or shower, it must be marked as appropriate for the application and connected to a GFCI (Ground Fault Circuit Interrupter) - protected branch circuit.

GENERAL SAFETY INFORMATION CONTINUED

WARNING

-  Do not use replacement parts that have not been recommended by the manufacturer (e.g. parts made at home using a 3D printer)
-  These models are UL listed for tub and shower enclosures.
-  Do not disassemble the unit for reconstruction. It may cause fire or electric shock.
-  If this product is to no longer be used, it must be removed from ceiling to prevent it from falling.
-  The ceiling joist must be able to withstand a static load of at least five times the weight of the product.
-  Not to be installed in a ceiling thermally insulated to a value greater than R60
-  Install the fan at least 7 feet (2.1 m) above the floor.
-  This product must be properly grounded.

CAUTION

-  Do not install this ventilating fan in a location where the interior room temperature may exceed 104 °F (40 °C).
-  Make sure that the electric service supply voltage is AC 120 V, 60 Hz.
-  Follow all local electrical and safety codes, as well as the National Electrical Code (NEC) and the Occupational Safety and Health Administration (OSHA).
-  Always disconnect the power source before working on or near the fan, motor or junction box.
-  Protect the supply wiring from sharp edges, oil, grease, hot surfaces, chemicals or other objects.
-  Do not kink the supply wiring.
-  For general ventilating use only. Do not use to exhaust hazardous or explosive materials and vapors.
-  Not for use in cooking area. (Fig. A)
-  The special-purpose or dedicated parts, such as mounting fixtures, must be used if such parts are provided.

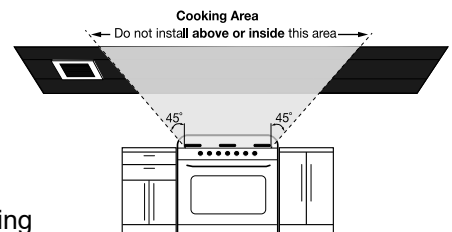


Fig. A

TRADEMARK INFORMATION

The Bluetooth® word mark and logo are registered trademarks owned by Bluetooth SIG, Inc., and any use of these marks by Panasonic Corporation is under license. Other trade names and trademarks belong to their respective owners.

This Bluetooth speaker meets FCC radiation exposure guidelines for general, non-controlled environments. Users must follow the provided usage instructions to maintain compliance with these safety standards. Do not install or operate this device near any other antenna or transmitting equipment.

GENERAL SAFETY INFORMATION CONTINUED

NOTICE



Provide make up air for proper ventilation.



Do not install the unit where ducts are configured as shown in below.



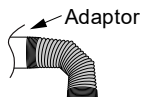
Excessive bending



Successive bending



Squeezed duct



Bend close to duct adaptor



Do not connect multiple units in parallel. If two or more units are connected to one switch in parallel, the units may not function.

DESCRIPTION

This product is listed by UL under UL file No E78414.

This product uses a sirocco fan driven by a DC motor powered by an integral transformer. The motor is designed to have long operating life, high dynamic response, higher speed ranges and energy savings. The grille covering the fan body is a spring-attached, quick removal type. A damper for preventing air counter flow is provided. The blower uses a high-capacity sirocco fan developed to reduce the noise level.

The lighting unit is an energy-saving LED device that uses one 10 W LED lamp that produces almost the same illumination as a standard 40 W incandescent lamp. The night light function consumes around 0.1 W to 0.4 W.

FCC Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning this product on and off, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect equipment into outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

Warning: This equipment must be installed by a qualified person in accordance with the provided installation instructions and all applicable codes and standards. Also, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

SDoC Responsible Party: Panasonic Corporation of North America
Two Riverfront Plaza, Newark, NJ 07102

Customer Call Center: 1-866-292-7299

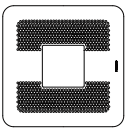
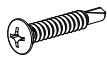
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. FCC ID: 2BP9O-Y811SL1072

Type IC-Inherently Protected

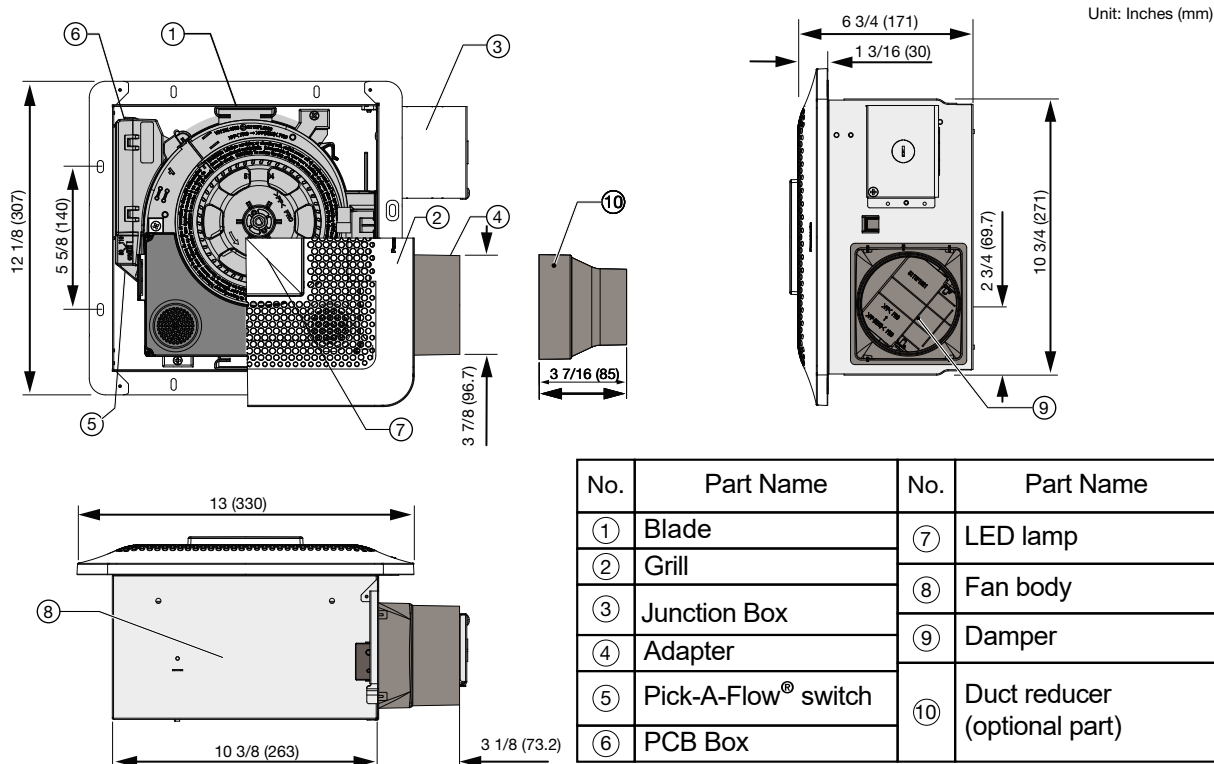
UNPACKING

Unpack and carefully remove the unit from carton.
Refer to the Supplied Accessories list to verify that all parts are present.

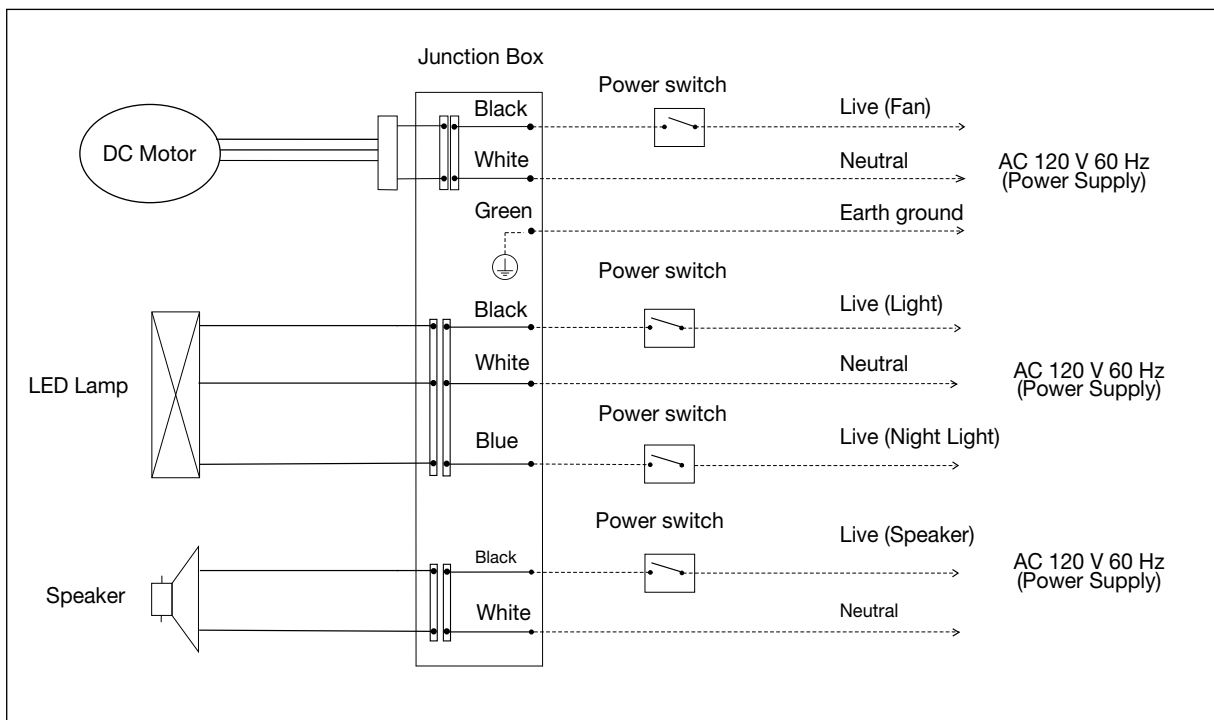
SUPPLIED ACCESSORIES

Part Name	Appearance	Quantity	Part Name	Appearance	Quantity
•Grille		1	•Installation Instructions		1
•3 Inch duct reducer (optional part)		1			
•Flex-Z Fast® Bracket		1	• Self-tapping Screw ST4.2X20		4
			•Self-drilling Screw		4

DIMENSIONS



WIRING DIAGRAM



FEATURES

These products employ innovative, state-of-the-art technologies that provide a number of customizable unique features that lead to improved indoor air quality. Please read this manual first in order to realize the benefits of this customizable, modular fan.

Optimum ventilation performance:

Duct length, elbows and other factors increase static pressure which can hinder the performance of most ventilation fans. These products utilize SmartFlow microchip technology that monitors the static pressure in the system and speeds up or slows down the rpm of the fan depending upon the amount of resistance within the ducts. This feature allows the fan to perform as rated and avoid potential installation issues.

Outstanding energy savings:

These products are built using DC motor technology. The DC motor is 30 % ~ 70 % more energy efficient than the minimum ENERGY STAR requirements.

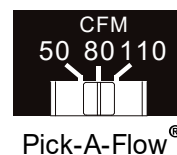
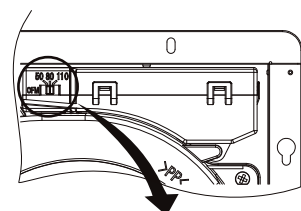
For model : FV-0511VFBL1

Pick-A-Flow[®] Feature:

This product comes with Pick-A-Flow[®] speed options.

The Pick-A-Flow[®] switch on the face of the product allows the option to choose 50, 80 or 110 CFM. This product can run continuously or intermittently, depending upon the needs of the owner.

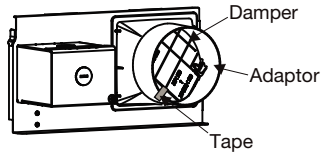
Air volume option (CFM)			Factory setting
50	80	110	80 CFM



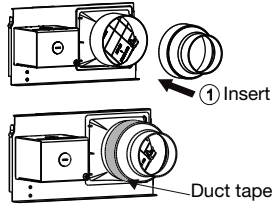
INSTALLATION (RETROFIT)

IMPORTANT:

Please remove the tape placed on the damper and adaptor before installation. Failure to do so will cause the product to work inefficiently and create a loud noise.



If you require use of the 3 inch duct reducer (optional accessory), use the following method:

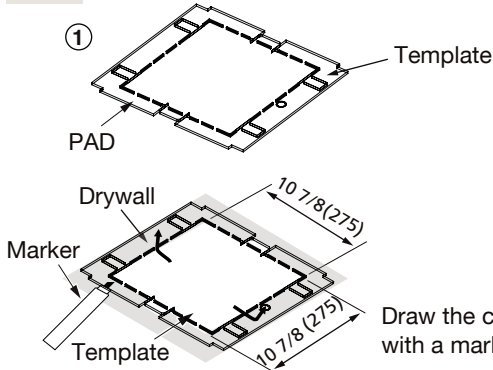


⚠ WARNING

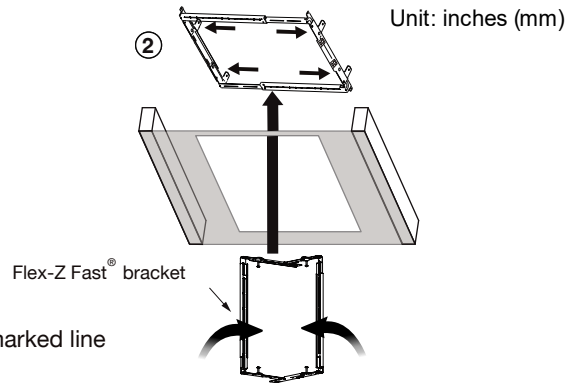
- ⚠ Disconnect power supply before installing the unit.
- ⚠ Please wear gloves to protect your hands during the installation.

1 Install Flex-Z Fast® bracket

The Flex-Z Fast® bracket position can be adjusted from 16" to 24" between joists.

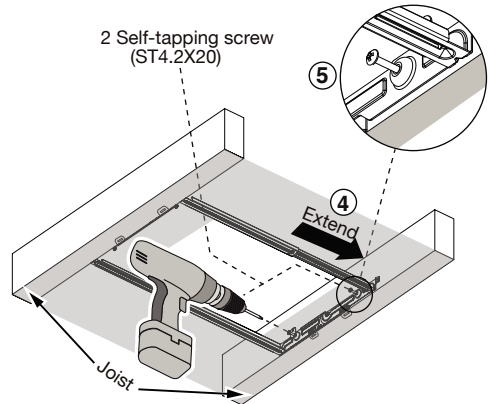
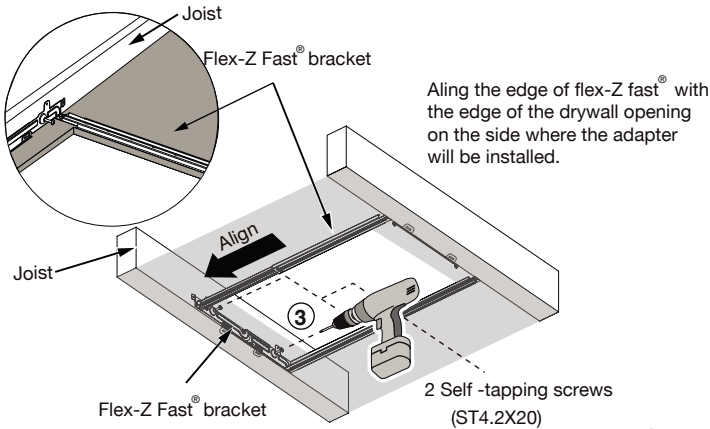


Draw the contour with a marker through marked line



- ① Remove the existing fan and use housing masking template to mark the ceiling opening and cut the ceiling along the marked line.

- ② Insert the Flex-Z Fast® bracket into the opening and extend.

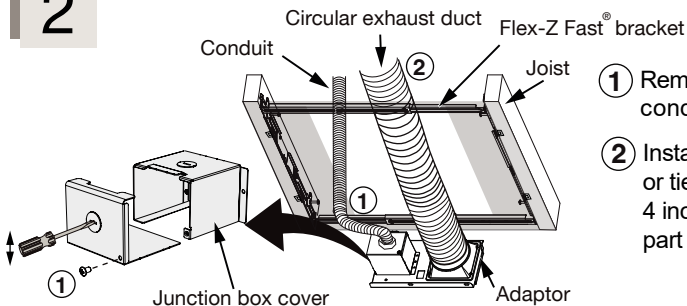


- ③ Align and install bracket to joist by using 2 self-tapping screws.

- ④ Extend bracket to the other joist.

- ⑤ Install bracket to joist by using 2 self-tapping screws.

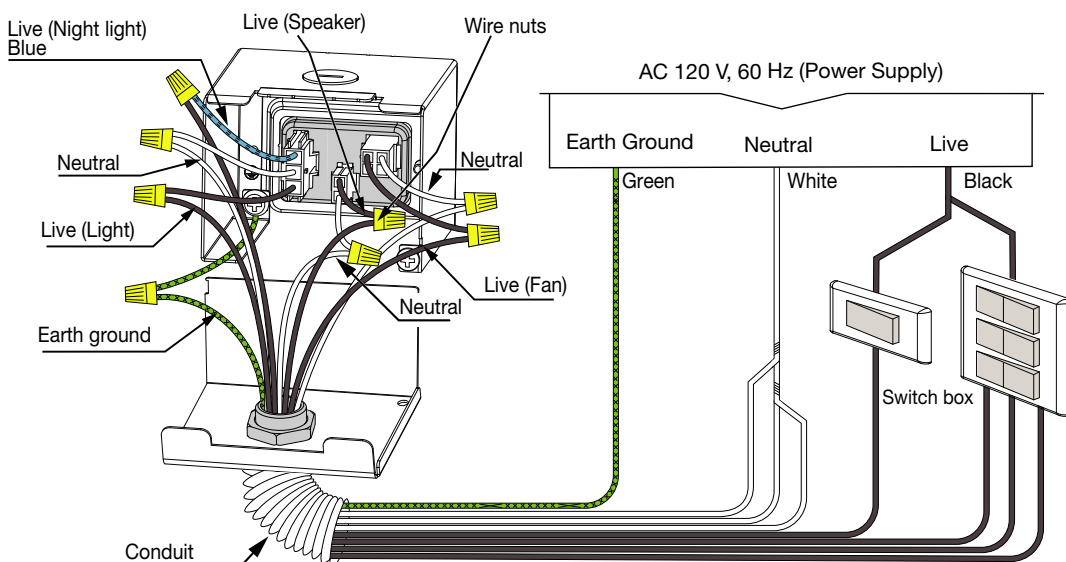
2 Install circular exhaust duct



- ① Remove screw from junction box cover and secure conduit or stress relief to junction box knock-out hole.
- ② Install the circular exhaust duct and secure it with clamps or ties and seal it with mastic or approved foil tape. A 3 or 4 inch circular duct is needed to connect to the relevant part of the adaptor.

INSTALLATION (RETROFIT) CONTINUED

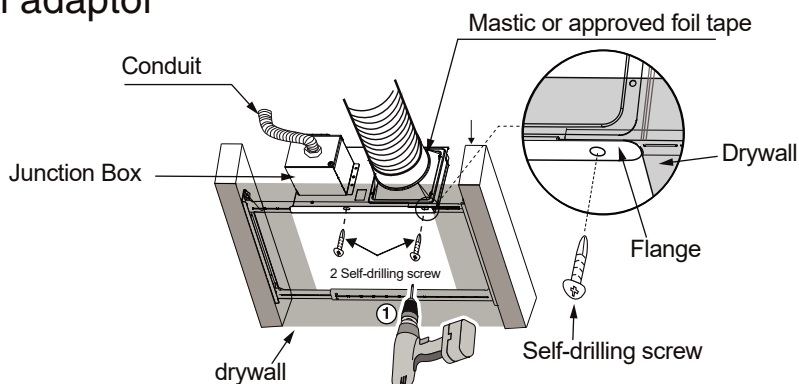
3 Connect wires



① Refer to WIRING DIAGRAM. (Page 6)

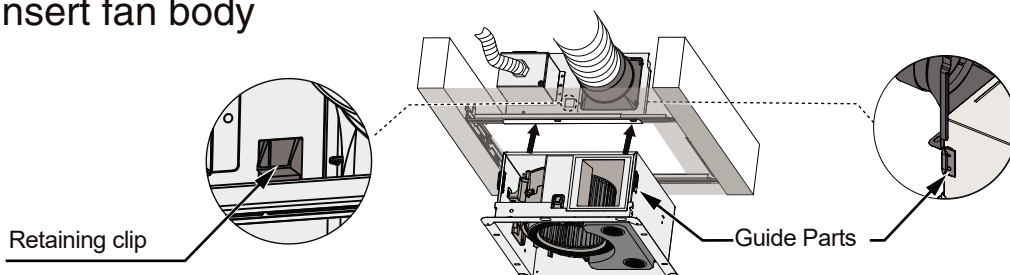
Follow all the local electrical safety codes as well as the National Electrical Code (NEC). Use UL approved wire connectors to connect fan wires. After connecting wires, replace junction box cover.

4 Install adaptor



① Insert the adaptor into the opening, aligning the flange with the roof edge, and secure it to the Flex-Z Fast® bracket using 2 self-drilling screws.

5 Insert fan body



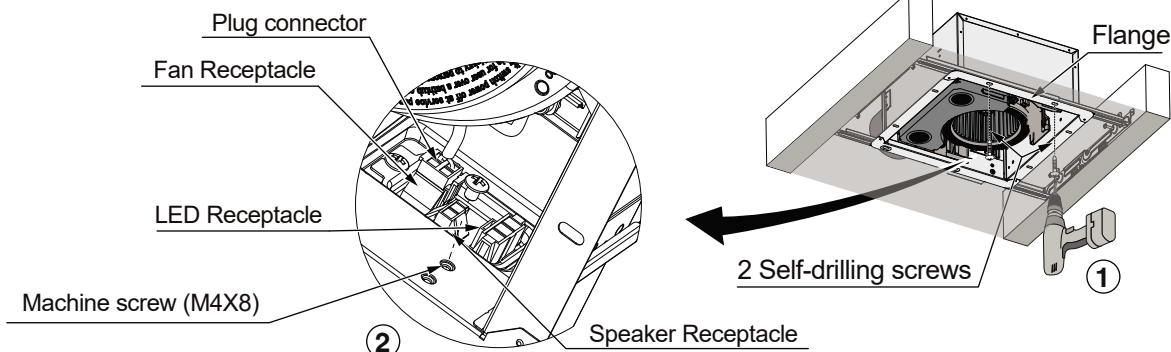
① Insert fan body and slide into adaptor assembly using the guide parts until you hear a click from Retaining clip

INSTALLATION (RETROFIT) CONTINUED

6

Secure fan body

- ① Secure the fan body to Flex-Z Fast® bracket using 2 self-drilling screws.
- ② Plug connector into receptacle and secure fan body to adaptor using the machine screw (M4X8).



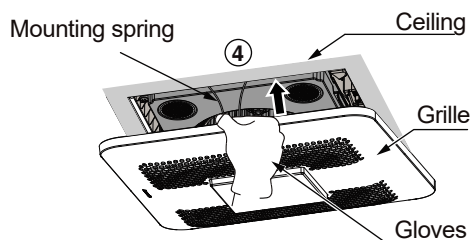
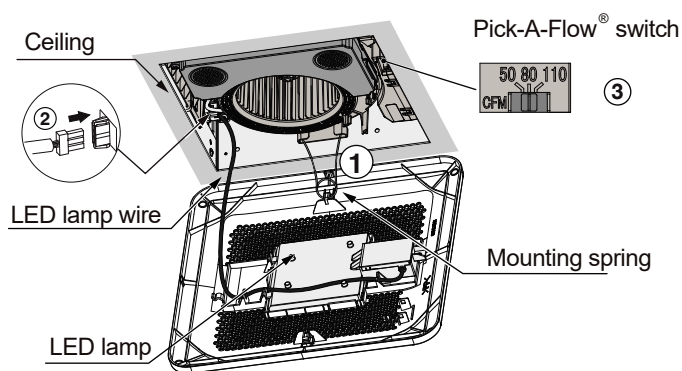
7

Install grille

- ① Insert the mounting spring into slot as shown to mount grille to fan body.
- ② Connect the LED lamp wire to fan body.
- ③ Adjust Pick-A-Flow® switch as desired. Refer to indication on "FEATURES" section, page 6.
- ④ Insert the other mounting spring into the slot as shown and mount grille to fan body

⚠ CAUTION

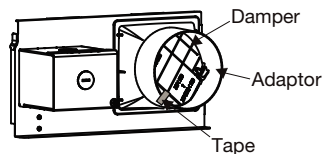
- Before turning on the light, make sure the connector is at the correct position. If not, the lighting can't work.
- Be sure to fix the cables of the lamp to the hooks prior to assembling the grill.
- The claw of LED connector must latch the rib completely.
- Mount grille carefully so that lead wire is not pinched.



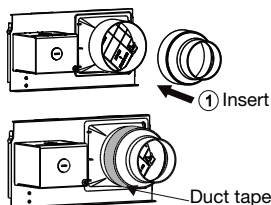
INSTALLATION (NEW CONSTRUCTION)

IMPORTANT:

Please remove the tape placed on the damper and adaptor before installation. Failure to do so will cause the product to work inefficiently and create a loud noise.



If you require use of the 3 inch duct reducer (optional accessory), use the following method:



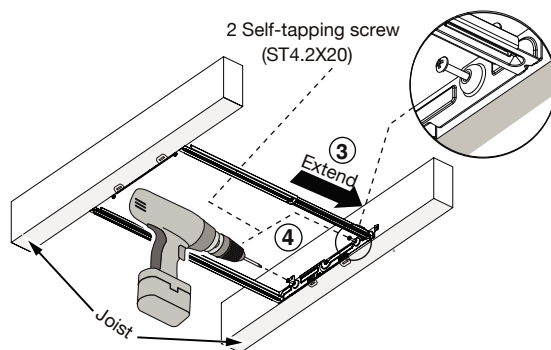
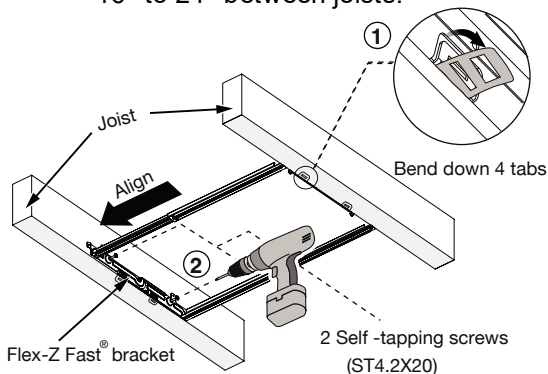
WARNING

- ❗ Disconnect power supply before installing the unit.
- ❗ Please wear gloves to protect your hands during the installation.
- ❗ Ensure the junction box cover encloses all the wires and is completely flush before locking in place with the

1

Install Flex-Z Fast® bracket

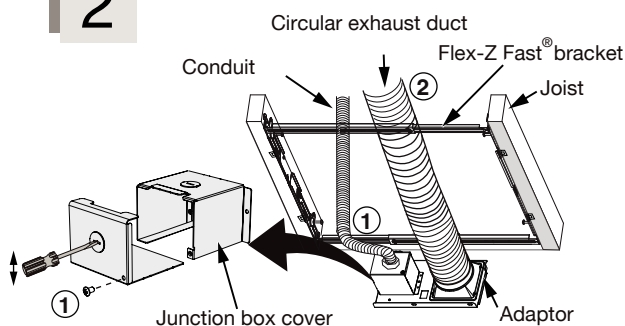
The Flex-Z Fast® bracket position can be adjusted from 16" to 24" between joists.



- ① Bend down 4 tabs and align bracket to the joist.
- ② Install bracket to joist using 2 self-tapping screws.
- ③ Extend bracket to the other joist.
- ④ Install bracket to joist using 2 self-tapping screws.

2

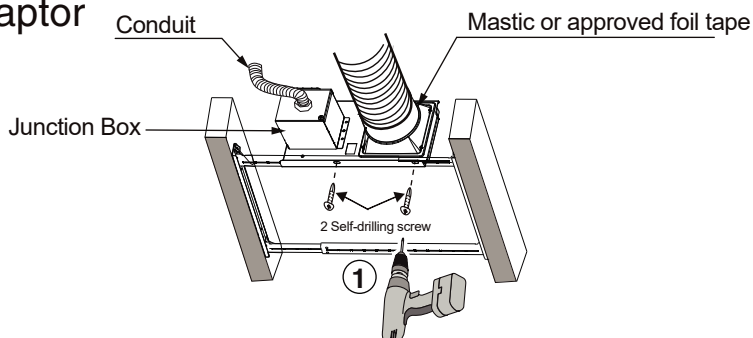
Install circular exhaust duct



- ① Remove screw from junction box cover and secure conduit or stress relief to junction box knock-out hole.
- ② Install the circular exhaust duct and secure it with clamps or ties and seal it with mastic or approved foil tape. A 3 or 4 inch circular duct is needed to connect to the relevant part of the adaptor.
- ③ Complete the wiring; please refer to step 3 on page 8.

3

Install adaptor

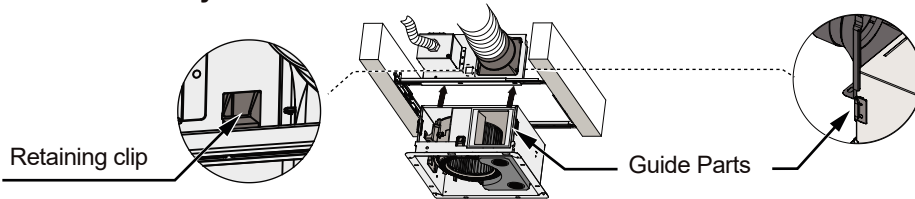


- ① Install the adaptor to Flex-Z Fast® bracket by using 2 self-drilling screws

INSTALLATION (NEW CONSTRUCTION) CONTINUED

4

Insert fan body

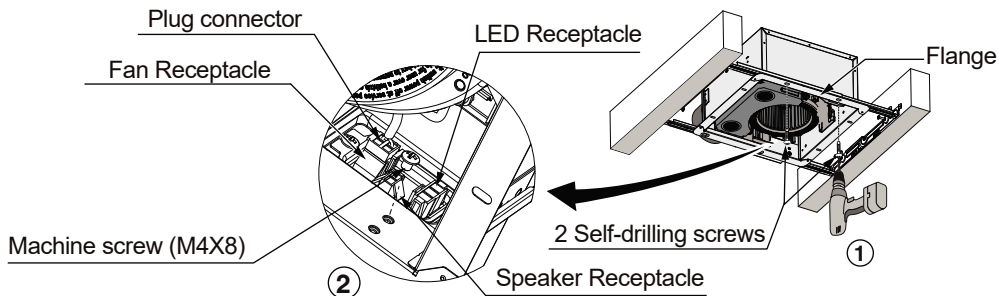


- 1 Insert fan body and slide into adaptor assembly using the guide parts until you hear a click from Retaining clip

5

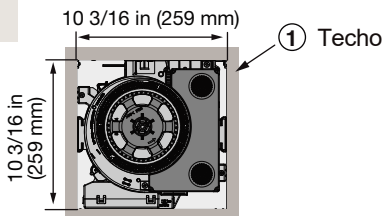
Secure fan body

- 1 Secure the fan body to Flex-Z Fast® bracket using 2 self-drilling screws.
- 2 Plug connector into receptacle and secure fan body to adaptor using the machine screw (M4X8).

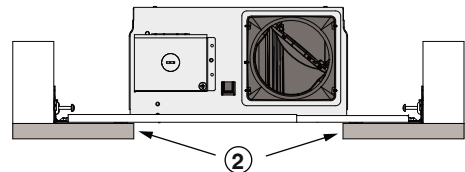


6

Sealing



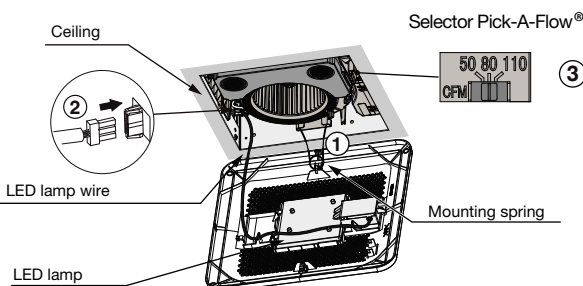
- 1 Finish ceiling work. Ceiling hole should be aligned with the inside edge of flange.
- 2 Once fan body is mounted and secure, fill gap between flange and ceiling with caulk or other sealant to prevent air leakage.



7

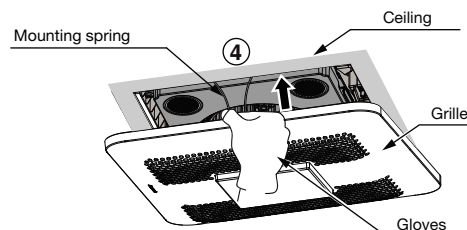
Install grille

- 1 Insert the mounting spring into slot as shown to mount grille to fan body.
- 2 Connect the LED lamp wire to fan body.
- 3 Adjust Pick-A-Flow® switch as desired. Refer to indication on "FEATURES" section, page 6. Insert the other mounting spring into the slot as shown and mount grille to fan body



! PRECAUCIÓN

- Before turning on the light, make sure the connector is at the correct position. If not, the lighting can't work.
- Be sure to fix the cables of the lamp to the hooks prior to assembling the grill.
- The claw of LED connector must latch the rib completely.
- Mount grille carefully so that lead wire is not pinched.



MAINTENANCE (CLEANING)

WARNING

 Disconnect power supply before working on unit.

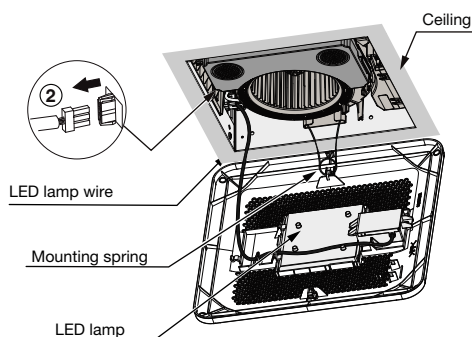
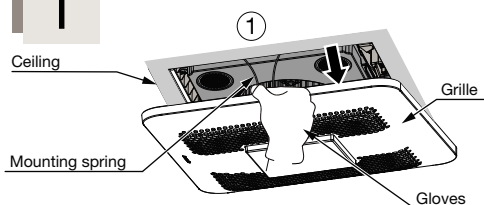
CAUTION

 Routine maintenance must be done every year. Please wear gloves during the cleaning work.

 Never use gasoline, benzene, thinner or any other such chemicals for cleaning the ventilating fan.

 Do not immerse motor in water when cleaning. Do not soak resin parts in water over 140 °F (60 °C).

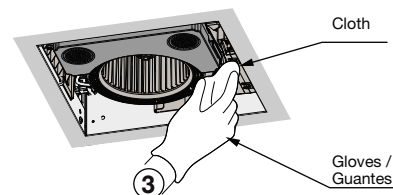
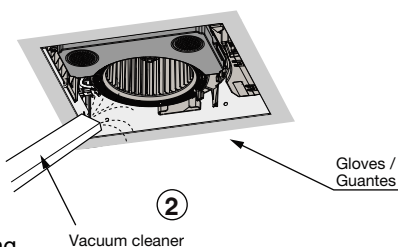
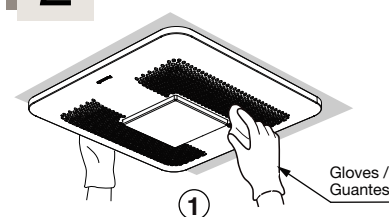
1 Remove grille



① Remove grille by pulling down one mounting spring, then pull the other.

② Disconnect the wire from the receptacle, then pull down the other mounting spring.

2 Maintenance of unit



NOTE : The grille should be dry after cleaning.

① Clean grille. (Don't put into hot water. Use non-abrasive kitchen detergent, wipe dry with clean cloth.)

② Remove dust and dirt from fan body using a vacuum cleaner.

③ Using a cloth dampened with kitchen detergent, remove any dirt from fan body. Wipe dry with clean cloth. Reinstall grille after finishing.

BLUETOOTH CONNECTION

1

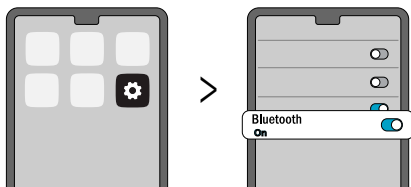
1. Turn on the speaker from wall switch.

You will hear the message "Power On, Bluetooth mode", indicating that it is ready to pair.

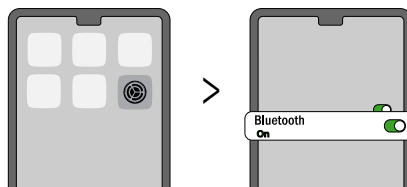
2. Turn on Bluetooth device.

Tap the settings ( / ) button on your device, and select Bluetooth and turn **on** the Bluetooth function ( Off >  On).

(Android)



(iOS)

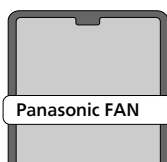


2

1.- Select connectable devices

Look for "Panasonic FAN" in the list of available devices and tap it to connect.

During initial pairing, it may take longer than 30 seconds for "Panasonic FAN" to appear.



3

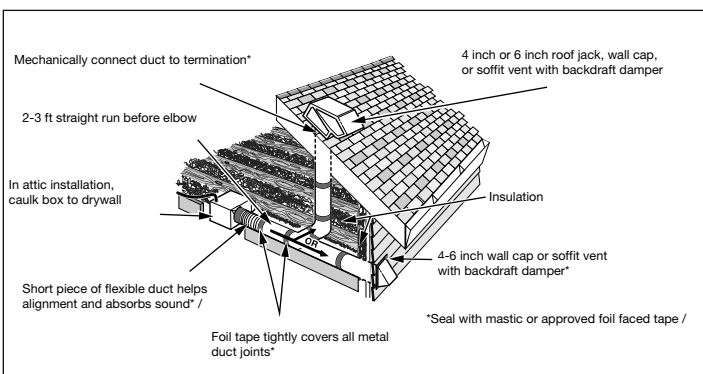
1.- Successful connection.

Once the speaker is successfully connected, you will hear the voice prompt "Connected," indicating that the pairing has been completed.

PRACTICAL GUIDE TO INSTALLATION

1. The ducting has a strong effect on the air flow, noise and energy use of the fan. Use the shortest, straightest duct routing possible for best performance, and avoid installing the fan with smaller ducts than recommended. Insulation around the ducts can reduce energy loss and inhibit mold growth. Fans installed with existing ducts may not achieve their rated airflow.

2. A circular 6-inch duct is recommended for best performance and proper fan installation.



3. Ensure duct joints and exterior penetrations are sealed with caulk or other similar material to create an airtight path and to minimize building heat loss and gain and reduce the potential for condensation.

4. Place / wrap insulation around duct and / or fan in order to minimize possible condensation buildup within the duct, as well as minimize building heat loss and gain.

SPECIFICATIONS

■ Specifications for base model fans

Model No.	Air direction	Voltage (V)	Frequency (Hz)	Duct diameter	Air volume at 0.1" WG (CFM)	Noise (sones)	Speed (rpm)	Power (W)		Weight lb. (kg)
								Fan	Lighting / Night Light	
FV-0511VFBL1	Exhaust	120	60	4"	110	1.1	1017	10.9	10 / 0.2	10.7 (4.8)
					80	0.4	899	6.7		
					50	<0.3	811	4.3		
				3"	110	2.0	1363	17.6		
					80	0.8	1104	9.0		
					50	<0.3	890	4.9		

HVI Certified performance based on HVI Procedures 915, 916, and 920.

PRODUCT SERVICE

Warning Concerning Removal of Covers. The unit should be serviced by qualified technicians only. Your product is designed and manufactured to ensure a minimum of maintenance. Should your unit require service or parts, call Panasonic Call Center at 1-866-292-7299 (USA).

Panasonic Corporation of North America

Two Riverfront Plaza, Newark, NJ 07102

www.panasonic.com