

# INSTALLATION AND OPERATING INSTRUCTIONS

## VENTILATION FAN

### READ AND SAVE THESE INSTRUCTIONS

#### GENERAL SAFETY INFORMATION

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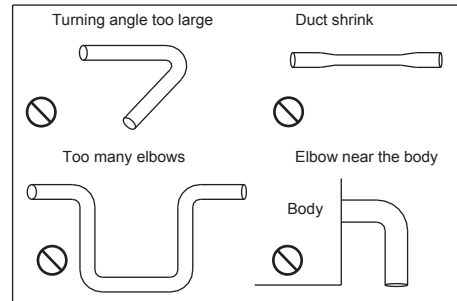
1. Make sure that the electric service supply voltage is AC 120V, 60Hz.
2. Follow all local electrical and safety codes, as well as the Nation Electrical Code (NEC) and the Occupation Safety and Healthy Act (OSH Act).
3. Always disconnect the power source before working on or near the ventilating fan, motor or junction box.
4. Protect the power cord from sharp edges, oil, grease, hot surfaces, chemicals or other objects.
5. Do not kink the power cord.
6. Do not install the unit where ducts are configured as shown in Fig. A.
7. Provide suction parts with proper ventilation.
8. This unit is UL listed for use over a bathtub or shower when installed in a GFCI protected branch circuit.
9. These ventilating fans are intended for residential usage only.

#### WARNING

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

1. Use this unit only in the manner intended by the manufacturer. If you have questions, contact the manufacturer.
2. 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.
3. Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards, including fire-rated construction.
4. 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 guideline and safety standards such as those published by the National Fire Protection Association (NFPA), and the American Society for Heating, Refrigeration and Air Conditioning Engineers (ASHRAE) and the local code authorities.
5. When cutting or drilling into wall or ceiling, do not damage electrical wiring and other hidden utilities.
6. Ducted fans must always be vented to the outdoors.
7. If this unit is to be installed over a tub or shower, it must be marked as appropriate for the application and be connected to a GFCI (Ground Fault Circuit Interrupter)-protected branch circuit.
8. Do not use this unit with any other solid-state control devices. Solid-state control devices may cause harmonic distortion, which can cause a motor humming noise.
9. **NEVER** place a switch where it can be reached from a tub or shower.

10. Not to be installed in a ceiling thermally insulated to a value greater than R40. (This is required for installation in Canada only).



**CAUTION** Fig. A

1. For general ventilating use only. Do not use to exhaust hazardous or explosive materials and vapors.
2. Not for use in cooking areas. (Fig. B)
3. This product must properly connect to the grounding conductor of the supply circuit.
4. To reduce the risk of injury to persons, install the fan at least 7 feet (2.1m) above the floor.

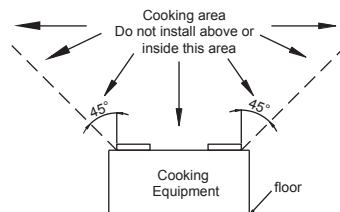
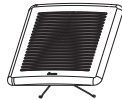
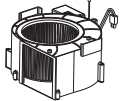
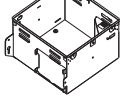


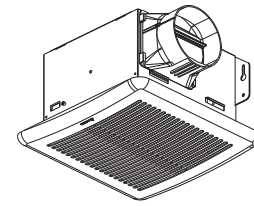


Fig. B

#### SUPPLIED ACCESSORIES

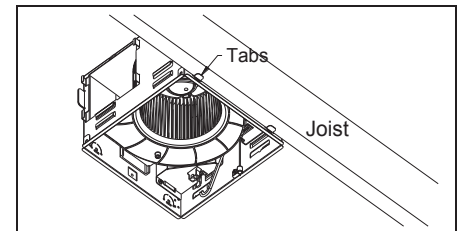
Part name	Appearance	Quantity
Grille		1
Fan		1
Housing		1
Duct Connector (4")		1
Screw (Ø4x25)		4



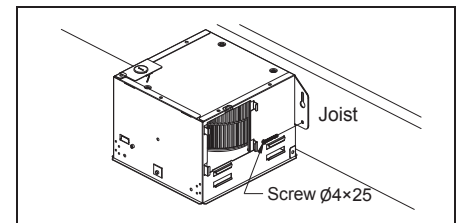
#### 1. INSTALLATIONS

##### MOUNT HOUSING WITH FLANGE:

- 1-1. To bend the housing tabs out to 90 degree and make housing tabs contact the bottom of the joist.

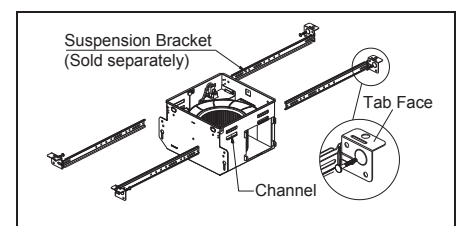


- 1-2. The housing mounts with 4 screws (Ø4x25). Screw housing to joist through lowest holes in each mounting flange, then through the other holes.

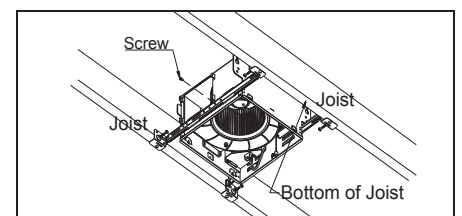


##### USING SUSPENSION BRACKETS (SOLD SEPARATELY)

- 1-3. Sliding suspension brackets available to allow for your specific positioning of housing anywhere between joists and span up to 24".
- 1-4. Insert suspension brackets into the channels on housing. Make sure tabs face "up" shown.

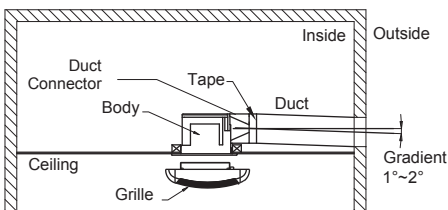


- 1-5. Extend suspension brackets to the width of the joists. Hold fan in place with the suspension brackets tabs wrapping around the bottom of joist.
- 1-6. Fasten suspension brackets to joists with nails or screws through holes near nails.
- 1-7. Secure suspension brackets together with screws.



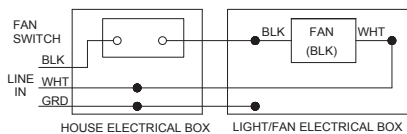
## 2. DUCT CONNECTION

- 2-1. Insert the duct into the duct connector and tape all ductworks connection to make them secure and air tight.
- 2-2. Install the duct with a gradient 1°~2° to the outside.



## 3. CONNECT WIRING

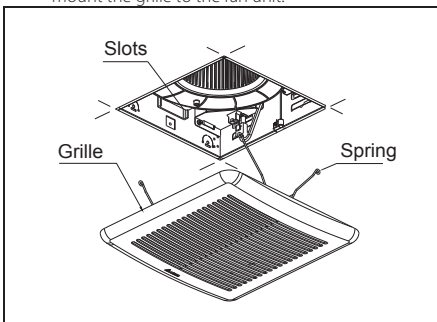
- 3-1. Follow all local electrical and safety codes.
- 3-2. NEVER place a switch where it can be reached from a tub or shower.



- 3-3. Connect wires as shown in wiring diagrams.
- 3-4. Using wire nuts (not provided), connect house power cable to ventilating fan.
- 3-5. 14 AWG (2.1 mm<sup>2</sup>) is the smallest conductor that shall be used for branch-circuit wiring.

## 4. TEST RUN & GRILLE ATTACHMENT

- 4-1. When the power on, check for abnormal vibration or sound.
- 4-2. Insert the mounting springs into the slots and mount the grille to the fan unit.



## 5. OPERATION

- 5-1. Turn on the power switch to operate ON or OFF, and LED indicator is green.

## 6. MAINTENANCE

### WARNING:

Disconnect power source before working on unit. Routine maintenance must be done every year.

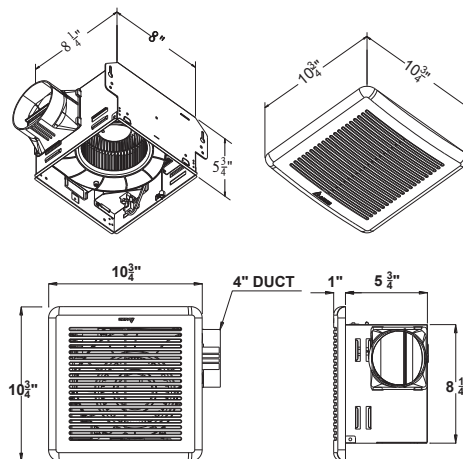
### CAUTION:

1. Never use gasoline, benzene, thinner or any other such chemicals for cleaning the ventilating fan.
2. Do not allow water to enter motor.
3. Do not soak resin parts in water over 60°C.

### CLEANING :

1. Pull down the spring to remove grille.
2. Wash and clean grille. (Use non-abrasive kitchen detergent, wipe dry with new cloth.)
3. Using a cloth dampened with non-abrasive kitchen detergent, remove dust and dirt from ventilating fan. Wipe dry with new cloth.
4. Replace grille.

## DIMENSIONS



## SPECIFICATIONS

Model No.	Voltage (V)	Frequency (Hz)	Power @ 0.1SP (W)	Air Flow @ 0.1SP (CFM)	Weight (lb.)	Power (W)
GBR50	120	60	3.8	50	5.6	6.2
GBR80	120	60	10.5	80	5.6	12.5

Note: Design and specifications subject to change without notice.

## WARRANTY

### DELTA ELECTRONICS THREE YEAR LIMITED WARRANTY

Delta Electronics Inc. ("Delta Electronics") warrants to the original consumer purchaser in the USA that the Breez ventilation fan products will be free from defects in material or workmanship. This warranty is limited to three (3) years from the original date of purchase.

### Limitations and Exclusions

1. During the warranty period, a replacement for any defective product will be supplied free of charge for installation by the consumer. The warranty provided herein does not cover charges for labor or other costs incurred in the troubleshooting, repair, removal, and installation service.
2. All returns of defective parts or products must include the product model number, and must be made through an authorized Delta Electronics distributor. Authorized returns must be shipped prepaid. Repaired or replacement products will be shipped by Delta Electronics F.O.B. shipping point.
3. Delta Electronics shall not be liable for any indirect, incidental, consequential, punitive, or special damages arising out of or in connection with products use or performance, regardless of the form of action whether in contract, tort (including negligence), strict product liability or otherwise.
4. This warranty does not extend to fluorescent lamp starters and tubes.
5. The warranty does not cover if user does not comply with manufacturer's installation manual.
6. To qualify for warranty service, you must notify Delta Electronics at the address or telephone number below.
7. Delta Electronics shall have no liability to the original owner-user with respect to any defect caused by abuse, misuse, neglect, improper transportation or storage, improper testing, improper installation, improper operation, improper use, improper maintenance, improper repair, improper alteration, improper modification, tampering or accident of products or parts thereof, or unusual deterioration or degradation of products or parts thereof due to a physical environment beyond the requirements of products' specifications.

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