

# VENTILATION FAN WITH BLUETOOTH SPEAKER

MODEL VFB25ADBT

## Installation and Operating Instructions

### READ AND SAVE THESE INSTRUCTIONS

#### GENERAL SAFETY INFORMATION

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 National Electrical Code (NEC) and the Occupational Safety and Health 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. (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.

#### 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 the unit, switch the power off at the service panel and lock the service disconnecting means to prevent the 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 a 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 backdrafting. 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 local code authorities.
5. When cutting or drilling into the 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 device. Solid-state control device may cause harmonic distortion, which can cause a motor humming noise.  
(Avertissement: ne convient pas à des régulateurs de vitesse à semi-conducteurs).
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 R50. (This is required for installation in Canada only).

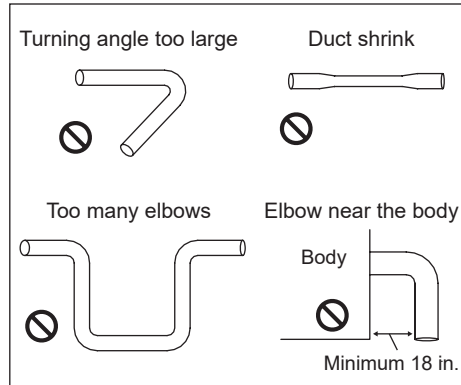


Fig. A

#### CAUTION

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 8.2 feet (2.5m) above the floor.

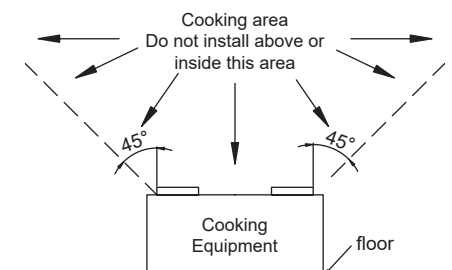


Fig. B

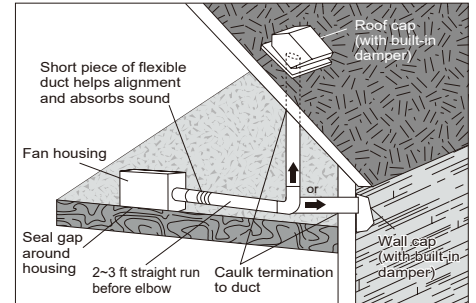
#### PREPARATION

Tools Required for Assembly (not included): Hammer, Flathead Screwdriver, Wire Nuts, Nails, Duct Tape, Phillips Head Screwdriver, and Utility Knife.  
Helpful Tools (not included): Electric Drill, Drill Bits.

#### WARNING: Turn off electricity at breaker box before beginning installation.

- Carefully remove unit from carton.
- Check area above installation location to be sure that wiring can run to the planned location and that duct work can be run. Make sure the area is sufficient for proper ventilation.
- Inspect duct work and wiring before proceeding with installation.
- Before installation, provide inspection and future maintenance access at a location that will not interfere with installation work.
- You may need the help of a second person to install this fan: one person on the attic side and one on the room side.

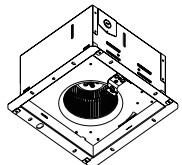





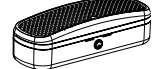
Note: Installations may vary depending on how the previous bath fan was installed. Supplies necessary for the installation of your bath fan are not all included. However, most are available at your local home improvement or hardware store.



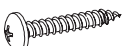

Proper insulation around the fan to minimize building heat loss and gain. 4" circular duct is recommended for installation. The ducting from this fan to the outside of building has a strong effect on the air flow, noise and energy use of the fan. Use the shortest, straightest duct routing possible for 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 air flow.

- The fan will operate most efficiently when located where the shortest possible duct run and minimum number of elbows will be needed.
- Use a roof cap or wall cap that has a built-in damper to reduce backdrafts.
- External timer switch can be used. Please contact Delta Breez customer service and consult with a licensed electrician for compatibility.

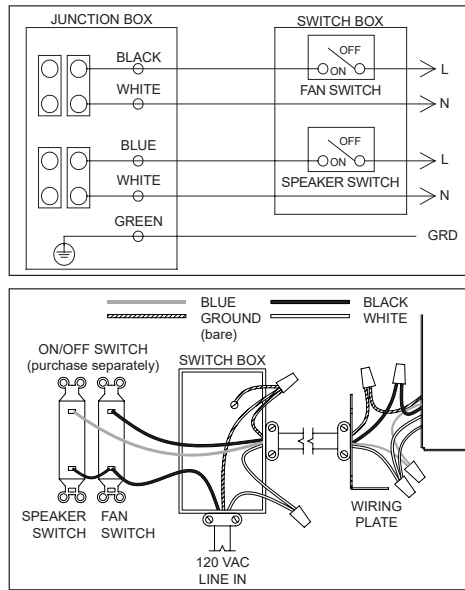
#### PACKAGE CONTENTS

PART	DESCRIPTION	APPEARANCE	QTY
1	Fan Body		1
2	Grille		1
3	Suspension Bracket I		1
4	Suspension Bracket II		1
5	Suspension Bracket III		1
6	Duct Connector		1
7	Bluetooth Speaker		1

#### HARDWARE CONTENTS (Images are to scale)

- A  × 8  
Long Wood Screw (ø 4 x 25mm)
- B  × 3  
Short Machine Screw (M4 x 12mm)

## WIRING DIAGRAM



## ASSEMBLY INSTRUCTIONS

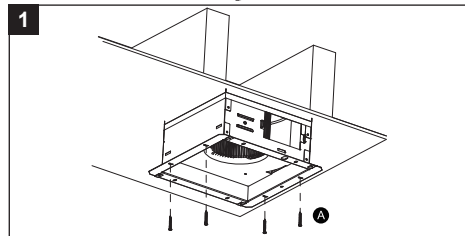
### NEW CONSTRUCTION – ATTACHING TO THE JOIST BEFORE INSTALLATION

Turn off power source. Review all safety precautions.

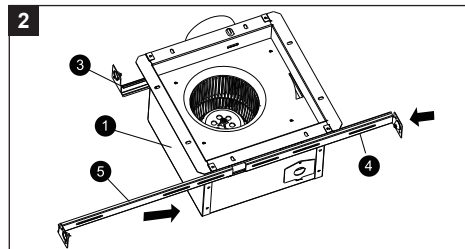
1. If spacing between joists is 12 in. apart, use four long wood screws (provided) to attach the fan body **1** to ceiling joists.

#### Hardware

- A** Long wood screw



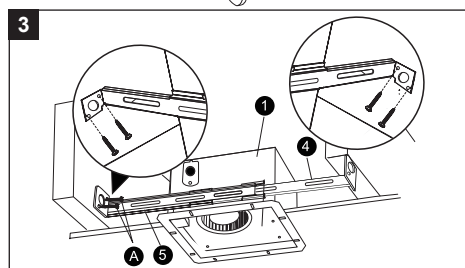
2. For joist spacing 16 in. - 24in., insert suspension bracket I **3** into the bracket cover on the duct connector side. Then, attach suspension bracket II **4** and bracket III **5** to the back of the fan body **1**.



3. Secure the fan body **1** to the joist with suspension brackets **3**, **4**, **5** using long wood screws.

#### Hardware

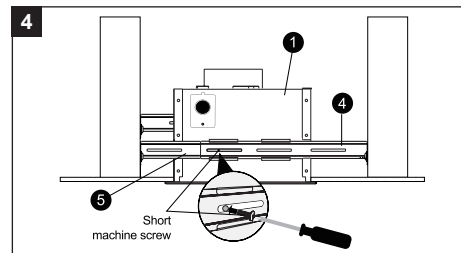
- A** Long wood screw



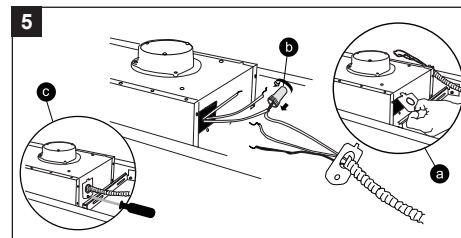
4. Secure the suspension brackets **4**, **5** to the fan body **1** using a short machine screw.

#### Hardware

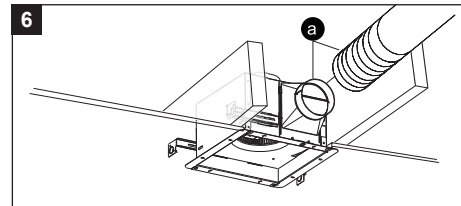
- B** Short machine screw



5. Remove the fan junction box cover **a**. Using wire nuts (not supplied), connect house wires to fan wires **b** as shown in the wiring diagram on page 2. Reattach fan junction box cover **c**.



6. Connect a 4 in. circular duct **a** (not supplied) and vent to the outside. Secure it with duct tape (not supplied) or clamp (not supplied) to make the connection secure and air tight.

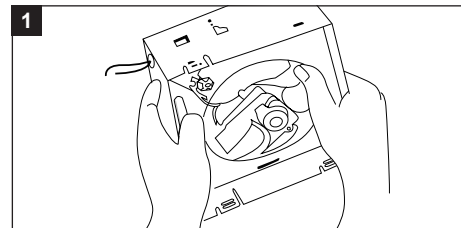


7. Turn on power source. Check fan for any abnormal sound or vibration.

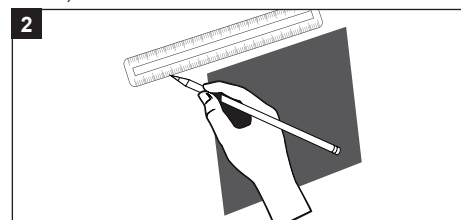
### EXISTING CONSTRUCTION BEFORE INSTALLATION

Turn off power source. Review all safety precautions.

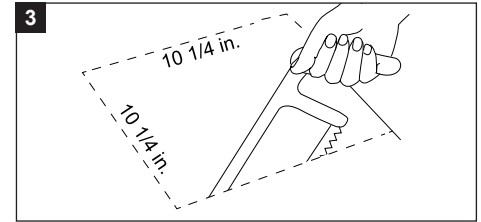
1. Remove existing fan.



2. Measure the opening to ensure it is large enough to accommodate the new fan body (10 1/4 in. x 10 1/4 in.).

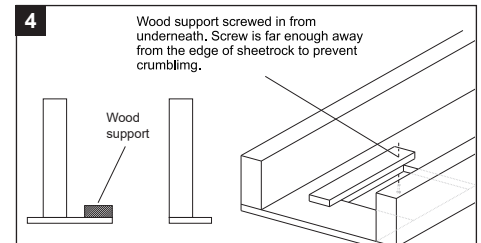


3. If this fan is not replacing an old fan, be sure to cut a 10 1/4 in. x 10 1/4 in. opening for the fan body.



### Install from below, no need for suspension brackets (no attic access)

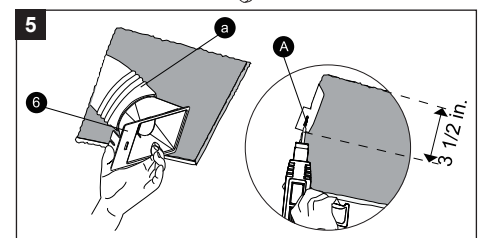
4. A piece of wood (not supplied) is screwed in from below through the ceiling board. Suggested size is 1 in. x 3 in. x 14 in. Position the screws far enough away from the edge of the ceiling board that it does not crumble and give way. Put screws in both ends of wood beyond the 10 1/4 in. hole. Keep screws in range of grille.



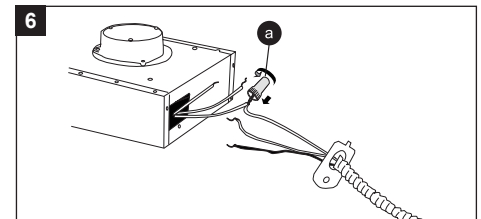
5. Place the duct connector **6** through the ceiling cut out. Connect a 4 in. circular duct (not supplied) **a** and vent to the outside. Secure it with duct tape (not supplied) or clamp (not supplied) to make connection secure and air tight. Attach the duct connector to the ceiling with one long wood screw.

#### Hardware

- A** Long wood screw



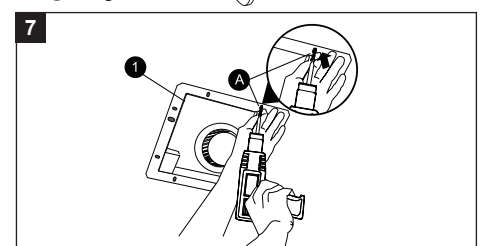
6. Remove fan junction box cover. Using wire nuts (not supplied), connect house wires to fan wires as shown in the wiring diagram on page 2.



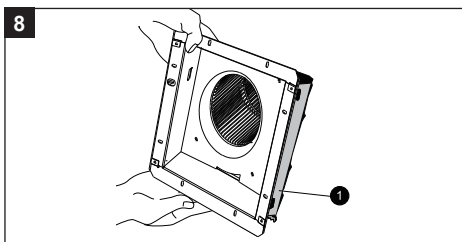
7. Secure the fan body **1** from below using long wood screws (provided). Insert at least 4 screws through the flange and drywall into the joists.

#### Hardware

- A** Long wood screw



8. Insert fan body ① into the ceiling cut out making sure to align the duct connector with the fan body ①.

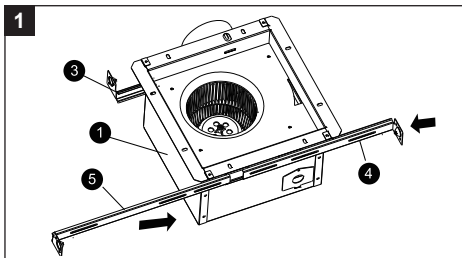


9. Turn on the power source. Check fan for any abnormal sound or vibration.

#### Install from above with suspension brackets (attic access)

#### \*ONLY IF UNABLE TO ATTACH DIRECTLY TO JOIST(S)

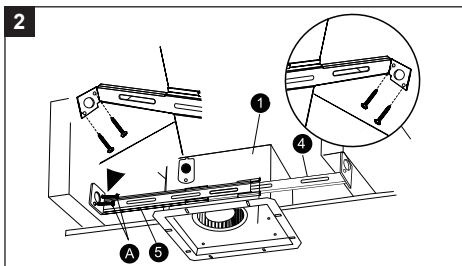
1. For joist spacing 16 in. - 24in., insert suspension bracket I ③ into the bracket cover on the duct connector side. Then, attach suspension bracket II ④ and bracket III ⑤ to the back of the fan body ①.



2. Secure the fan body ① to the joist with suspension brackets ③, ④, ⑤ using long wood screws.

#### Hardware

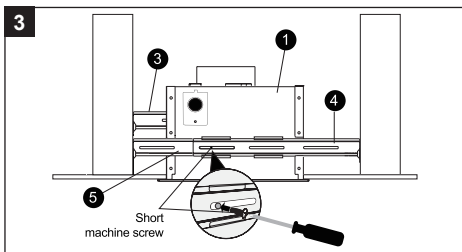
- Ⓐ Long wood screw



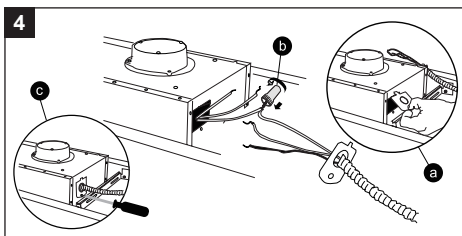
3. Secure the suspension brackets ③, ④, ⑤ to the fan body ① using a short machine screw.

#### Hardware

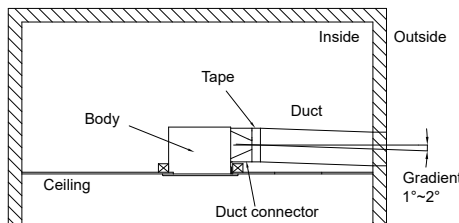
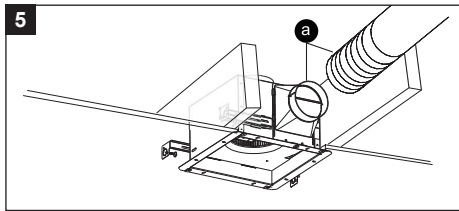
- Ⓑ Short machine screw



4. Remove the fan junction box cover Ⓐ. Using wire nuts (not supplied), connect house wires to fan wires Ⓑ as shown in the wiring diagram on page 2. Reattach fan junction box cover Ⓒ.



5. Connect a 4 in. circular duct Ⓐ (not supplied) and vent to the outside. Secure it with duct tape (not supplied) or clamp (not supplied) to make the connection secure and air tight. Install the duct with a gradient 1°~2° to the outside.



6. Turn on power source. Check fan for any abnormal sound or vibration.

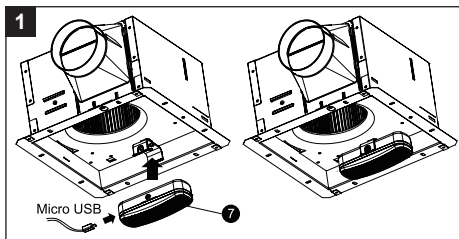
## CONNECT WIRING

### TURN OFF POWER SOURCE. REVIEW ALL SAFETY PRECAUTION.

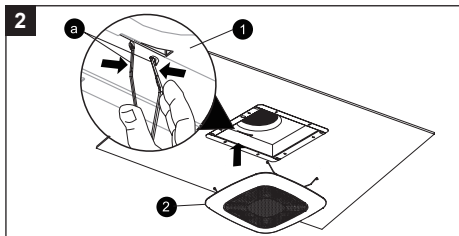
1. Follow all local electrical and safety codes, ANSI/NFPA70.
2. NEVER place a switch where it can be reached from a tub or shower.
3. 14 AWG (2.1 mm<sup>2</sup>) is the smallest conductor that shall be used for branch-circuit wiring.

## GRILLE & SPEAKER INSTALLATION

1. Plug the Micro USB connector into the speaker assembly ⑦, and secure the speaker assembly to the holder on the fan unit.



2. Attach grille ② by pinching mounting springs Ⓐ and insert into the narrow rectangular slots in fan body ①.



## FCC COMPLIANCE

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

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 the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

The Bluetooth word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Delta Electronics, Inc. is under license. Other trademarks and trade names are those of their respective owners.

The Bluetooth speaker complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying exposure compliance. This speaker must not be co-located or operate in conjunction with any other antenna or transmitter. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

NOTE: The Grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. Such modifications could void the user's authority to operate the equipment.

FCC ID: H79VFRU-25-46BT

## OPERATION

Fan Mode: Turn the Fan switch to operate ON/OFF.

Speaker Mode: Turn the Speaker switch to operate ON/OFF. (Bluetooth Speaker model : VFRU-25-46BT)

Pairing your Bluetooth device to the speaker for the first time.

1. To play your personal music or audio files, you need a Bluetooth device, like smart phone, tablet, or any other such devices.
2. Place the Bluetooth device located within 10 meters of the fan.
3. Set your device to midrange volume before connecting to the speaker.
4. Turn ON the Speaker switch, the blue LED indicator flashes in pairing mode.
5. Follow the instructions that came with your Bluetooth device to make it discoverable or to set it to search for other Bluetooth accessories. This may involve entering a passkey or PIN (Personal Identification Number).
6. From the home screen, tap Settings > Bluetooth, the device searches and a list of discoverable devices will appear, choose "DeltaBreez SIG", and enter a passkey or PIN (0000) if prompted.
7. When pairing is completed, the blue LED indicator will solid on, you can use the Bluetooth speaker to play music or audio files with your device.

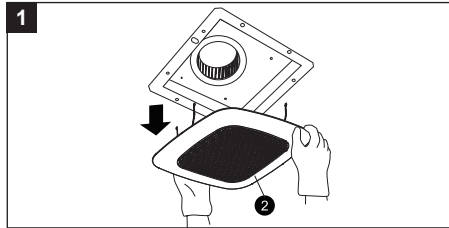
## CARE AND MAINTENANCE

TURN OFF POWER SOURCE. REVIEW ALL SAFETY PRECAUTION.

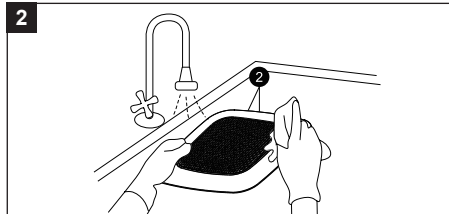
See safety information before proceeding. Routine maintenance should be done at least once a year.

- Never use solvents, thinner or harsh chemicals when cleaning the fan.
- Do not allow water to enter the motor.
- Do not immerse metal parts in water.
- Do not immerse resin parts in water over 140° Fahrenheit.
- Do not immerse Bluetooth speaker in water.

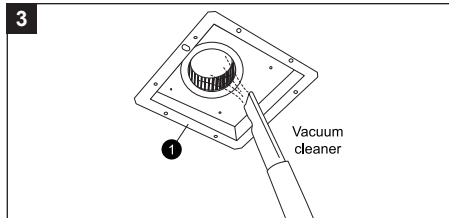
1. To remove grille ❶, squeeze springs and pull down.



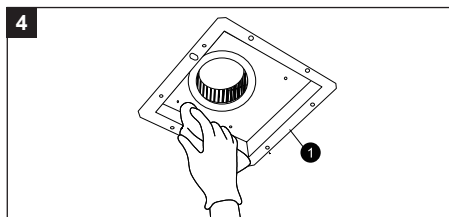
2. Wash and clean the grille ❷ in a sink and dry with a cloth.



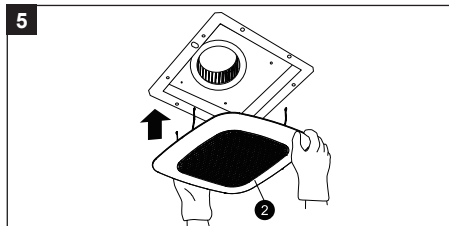
3. Remove dust and dirt from the fan body ❶ with a vacuum cleaner.



4. Dampen cloth with dust detergent and wipe the fan body ❶. Then wipe dry with a clean cloth.

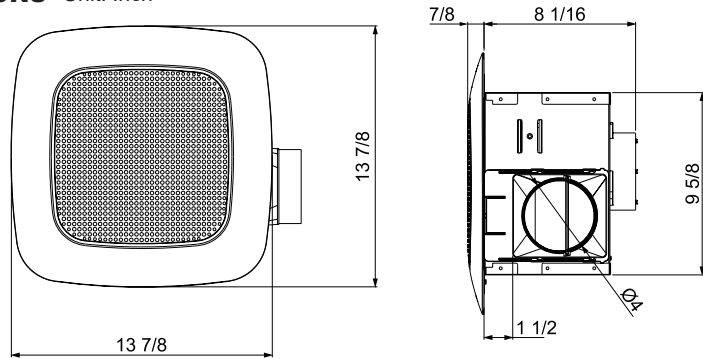


5. Replace grille ❷ back onto fan body ❶.



6. Turn on power source to operate fan again.

## DIMENSIONS Unit: Inch



## PRODUCT SPECIFICATIONS

Model No.	Voltage (V)	Frequency (Hz)	Air Flow @ 0.1"SP (CFM)	Power @ 0.1"SP (W)	Max Current (amps)	Weight (lb.)	Note
VFB25ADBT	110-220	50-60	110	21.4	0.3	7.52	

Note: Design and specifications subject to change without notice.

## TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	CORRECTIVE ACTION
The fan is not turning ON	<ol style="list-style-type: none"> <li>1. Power off</li> <li>2. Faulty switch</li> <li>3. Faulty wire connection</li> </ol>	<ol style="list-style-type: none"> <li>1. Make sure power supply is on.</li> <li>2. Test or replace switch.</li> <li>3. Check wire in switch box.</li> </ol>
The fan seems louder than it should	<ol style="list-style-type: none"> <li>1. CFM too great</li> <li>2. Damper not working properly or damaged</li> <li>3. Bend in duct too close to fan discharge</li> <li>4. Fan discharge reduced to fit smaller duct</li> <li>5. Fan body not securely attached</li> </ol>	<ol style="list-style-type: none"> <li>1. Be sure the CFM rating on the fan matches the size of your room.</li> <li>2. Check damper to ensure it is opening and closing properly. If the damper has become damaged, please call Customer Service.</li> <li>3. Be sure you do not have any sharp bends in duct closer than 18 in. to the fan discharge.</li> <li>4. Use recommended size ducting to reduce fan noise.</li> <li>5. Be sure the fan is securely attached to your ceiling joists.</li> </ol>
The fan is not clearing the room	<ol style="list-style-type: none"> <li>1. Insufficient intake airflow within room</li> <li>2. Insufficient CFM</li> </ol>	<ol style="list-style-type: none"> <li>1. Be sure a door or window is slightly ajar or opened to allow airflow. The fan is not able to draw air out of the room without enough airflow to draw in from.</li> <li>2. Be sure the CFM rating on the fan matches the requirements for your room size.</li> </ol>

## 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 requirement of products' specifications.

#### Address:

46101 Fremont Boulevard, Fremont, CA 94538

#### US Toll Free Number:

1-888-979-9889 – Technical Support

1-877-685-4384 – Customer Sales Support

www.deltabreez.com