

INSTALLATION AND OPERATING INSTRUCTIONS

SUPPLY AIR FAN

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 as shown in Fig. A.
7. Provide intake 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.
7. Do not use this unit with any solid-state control device. Solid-state controls may cause harmonic distortion, which can cause a motor humming noise. (Avertissement: ne convient pas à des régulateurs de vitesse à semi-conducteurs)
8. NEVER place a switch where it can be reached from a tub or shower.
9. Not to be installed in a ceiling thermally insulated to a value greater than R50. (This is required for installation in Canada only).

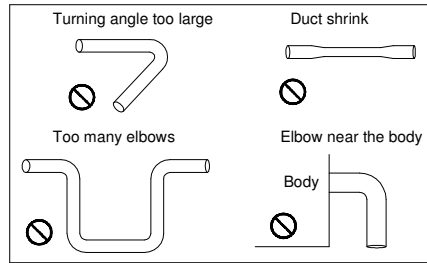


Fig. A

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 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.

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.

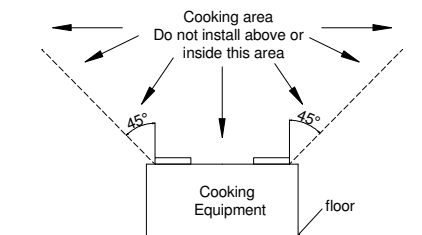
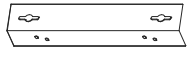
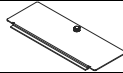




Fig. B

SUPPLIED ACCESSORIES

Part name	Appearance	Quantity
Bracket		2
Control Panel Cover		1
Tapping Screw (Ø 4x25)		4
Tapping Screw (Ø 4x10)		4

PREPARATION

1. Remove the unit from the box and inspect for damage.
2. Put the unit down on a protected surface
3. Refer to your local building code to determine the required airflow.
4. Adjust the settings according to the required airflow. (Fig. C)

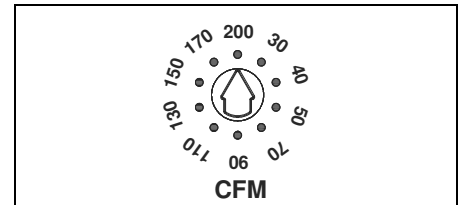


Fig. C

5. Secure control panel cover by hand screw. (Fig. D)

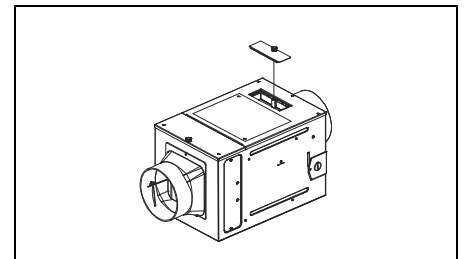
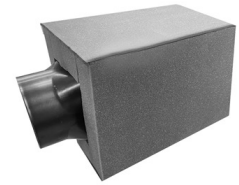


Fig. D



INSTALLATION

Proper insulation around the fan to minimize building heat loss and gain. 6" circular duct is recommended for installation. The ducting from this fan to the outside of the 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.

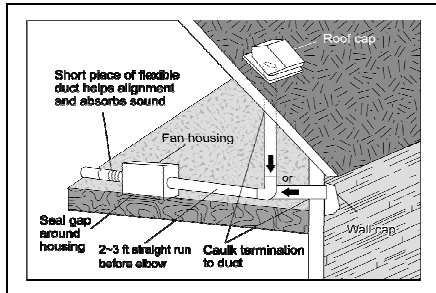


Fig. E

Preparation:

For making sure the damper would be closed by gravity when fan is power off. If choosing suspended ceiling, flush to ceiling and under ceiling installation, need to rotate outlet duct connector 90° counterclockwise.

1. Remove the screw on outlet duct connector which has damper, and rotate the duct connector 90° counterclockwise. (Fig. F)

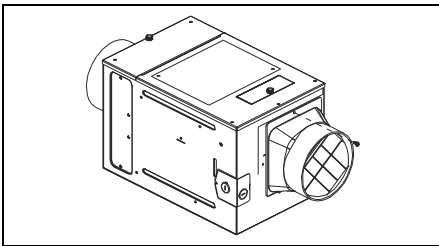


Fig. F

2. Make sure the duct connector tab inserted to the flange and secure the duct connector by screw. (Fig. G)

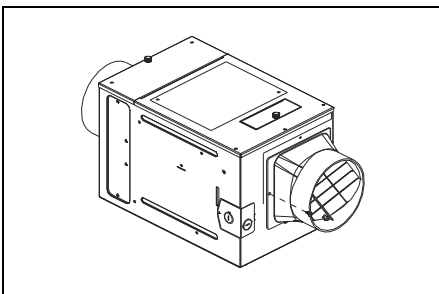


Fig. G

Install the housing (I) - Suspended ceiling

1. Assemble bracket to body. (Fig. H) Suspend body with anchor bolts. (Fig. I)

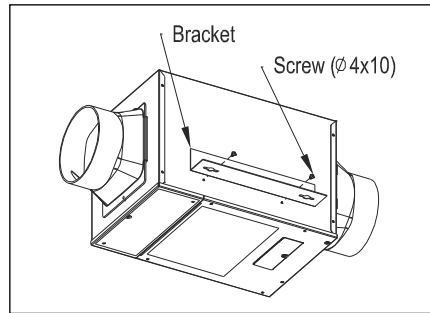


Fig. H

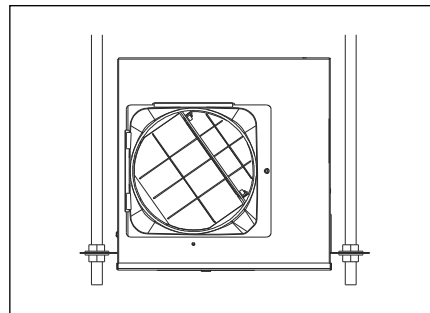


Fig. I

Install the housing (II) – Attic Mount

1. Using 4 screws (Ø 4x10), install the brackets on the unit, and using 4 screws (Ø 4x25) secure the unit to the joists or cross framing. (Fig. J)

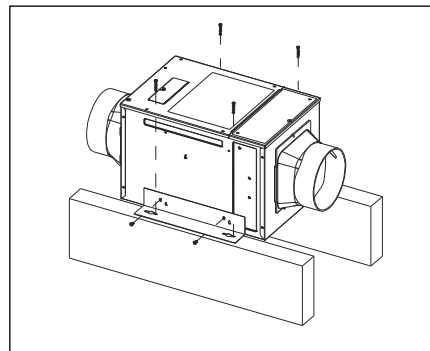


Fig. J

Install the housing (III) – Flush to ceiling

1. Using 4 screws (Ø 4x10), install the brackets on the unit and adapt to the thickness of the ceiling. (Fig. K)

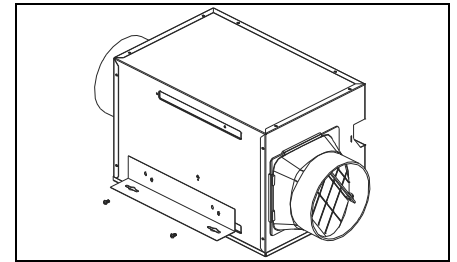


Fig. K

2. Using 4 screws (Ø 4x25), install the unit between the joists. (Fig. L)

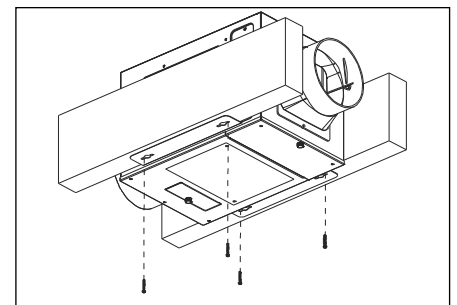


Fig. L

Install the housing (IV) – Under ceiling

1. Using 4 screws (Ø 4x10), install the brackets on the unit, and using 4 screws (Ø 4x25) secure the unit to the ceiling, into the studs, joists or other solid materials. (Fig. M)

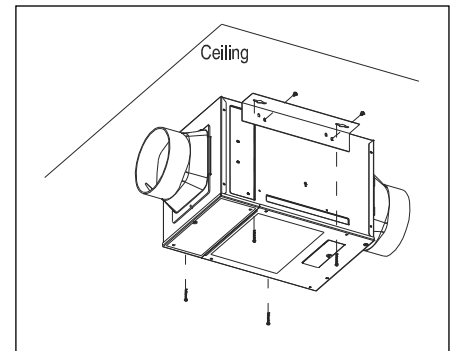


Fig. M

Install the housing (V) – Wall mounted

1. Outlet must be positioned upward, so the damper will be closed by gravity. Using 4 screws (Ø 4x10), install the brackets on the unit, and using 4 screws (Ø 4x25) secure the unit to the wall, into the studs, joists or other solid materials. (Fig. N)

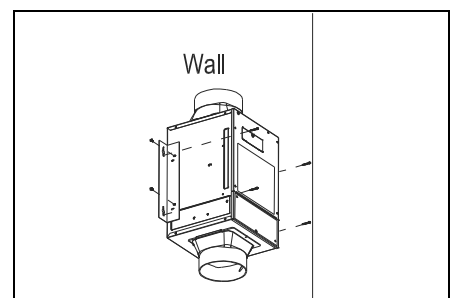


Fig. N

DUCT CONNECTION

1. Remove the tape stuck on damper before duct connection and make sure the damp is closed by gravity.
2. Attach the 6" duct (not provided) onto the duct connector and tape all ductwork connections to make them secure and airtight. (Fig. O)
3. Install the duct with a gradient 1°~2° to the outside.

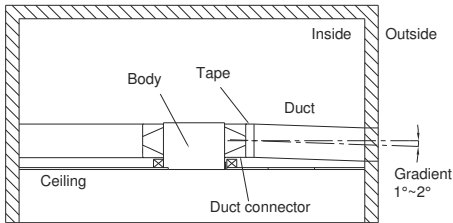


Fig. O

CONNECT WIRING

1. Follow all local electrical code and ANSI/NFPA70.
2. NEVER place a switch where it can be reached from a tub or shower.
3. Connect wires as shown in wiring diagrams.

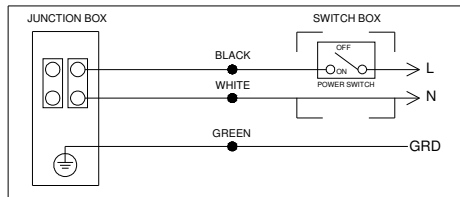


Fig. P

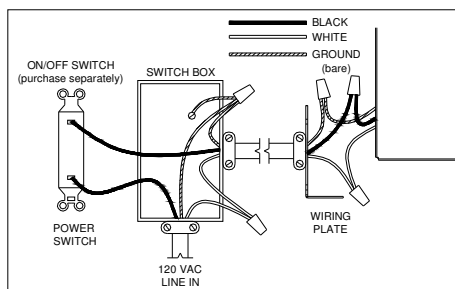


Fig. Q

4. Using wire nuts (not provided), connect the house power cable to the ventilating fan wires.
5. 14 AWG (2.1 mm²) is the smallest conductor that shall be used for branch-circuit wiring.

OPERATION

1. Turn the POWER switch on to operate.

MAINTENANCE WARNING

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

CAUTION:

1. Never use gasoline, benzene, thinner or any other such chemicals to clean the supply air fan.
2. Do not allow water to enter the motor.
3. Do not soak resin parts in water over 140°F (60°C).

CLEANING

1. Open the filter maintenance cover by turning the hand screw counterclockwise. (Fig. R)

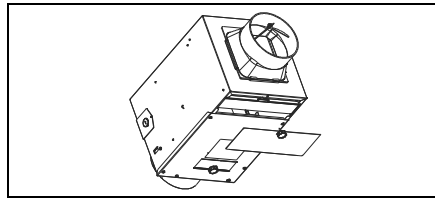


Fig. R

2. Pull out the pre-filter, clean it with water once in 3 months. (Fig. S)

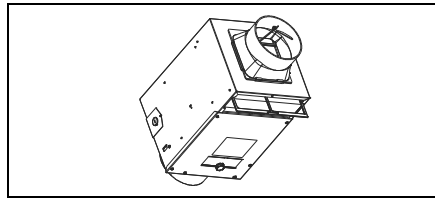


Fig. S

3. Pull out the MERV filter (optional), clean it with vacuum cleaner once in 3 months, and replace it once in 6 months. (Fig. T)

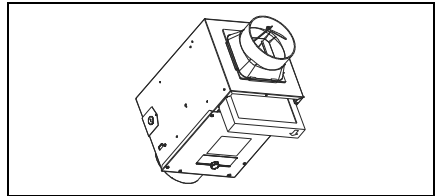


Fig. T

4. Reinstall the filters and close the maintenance cover by turning the screw clockwise.

DIMENSIONS

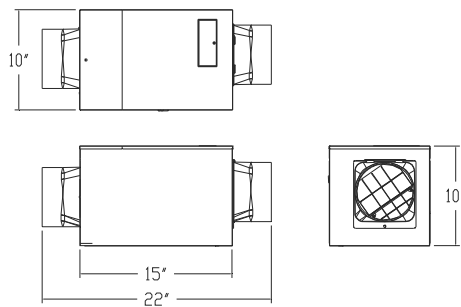


Fig. U

WARRANTY

DELTA ELECTRONICS THREE YEAR LIMITED WARRANTY

Delta Electronics Inc. ("Delta Electronics") warrants to the original consumer purchaser in the USA and Canada 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.

Address: 46101 Fremont Boulevard, Fremont, CA 94538 US
Toll Free Number: 1-888-979-9889

TROUBLE SHOOTING

PROBLEM	POSSIBLE CAUSE	CORRECTIVE ACTION
The fan is not turning on	<ol style="list-style-type: none"> 1. Power off 2. Faulty switch 3. Faulty wire connection 	<ol style="list-style-type: none"> 1. Make sure power supply is on. 2. Test or replace switch. 3. Check wire in switch box.
The fan seems louder than it	<ol style="list-style-type: none"> 1. CFM too great. 2. Damper not working properly or damaged 3. Bend in duct too close to fan discharge. 4. Fan discharge reduced to fit smaller duct. 5. Fan body not securely attached 6. Filter is clogged. 	<ol style="list-style-type: none"> 1. Be sure the CFM rating on the fan matches the size of your room. 2. Check damper to ensure it is opening and closing properly. If the damper has become damaged, please call Customer Service. 3. Be sure you do not have any sharp bends in duct closer than 18 in. to the fan discharge. 4. Use recommended size ducting to reduce fan noise. 5. Be sure the fan is securely attached. 6. Replace or clean clogged parts.

SPECIFICATIONS

Voltage (V)	Frequency (Hz)	Duct (inch)	Static Pressure (inch-w.g.)	Air volume (CFM)	Power consumption (W)	Weight (lb)
120	60	6	0.2	30	4.8	12.0
				40	5.5	
				50	6.4	
				70	8.1	
				90	10.1	
				110	11.7	
				130	16.4	
				150	19.0	
				170	23.8	
				200	33.0	

Note: Specifications subject to change without notice.

