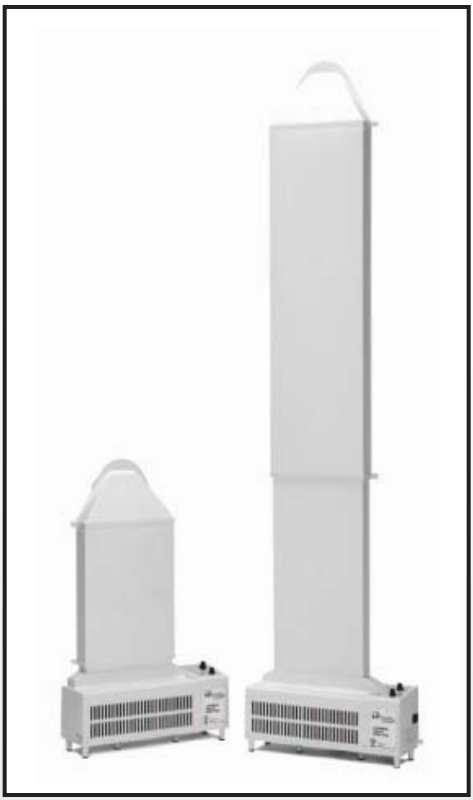
E·Z Breathe™

HEALTHY HOME SOLUTIONS

Installation Guide



Model A-400

WELCOME

You are installing the most innovative ventilation system on the market. **EZ Breathe®** is designed not only to lower humidity levels, but also to reduce moldy, musty odors and indoor pollutants. This ventilation appliance installed in the lowest level of your home/building is engineered to expel moisture-laden air that stagnated due to poor air circulation and to provide ventilation in lower levels, basements, crawlspaces as well as any other areas in need of air circulation.

The **EZ Breathe®** unit's quiet, powerful fan draws the moist polluted air through the bottom vents and then expels it outside through a 6" duct. The humidistat control continuously monitors the humidity of the air flowing out. When the humidity level of this air drops to the desired level (at a set point below 50%), the **EZ Breathe®** unit will shut off, and then come back on again when humidity levels increase.

The **EZ Breathe®** will draw on the most readily available air and works most effectively when that air is from your upstairs and your upstairs air is dry. Your upstairs air is driest when you condition it with your furnace or air conditioner. ***Allowing your EZ Breathe® to draw air from an unconditioned source, (i.e. open windows or open doors) may lead to increased humidity***. The humidity content of the replacement air that is being drawn down to your EZB unit will directly impact its performance, causing spikes in relative humidity and moisture content.

WHAT'S INSIDE

Before installing your **EZ Breathe**® ventilation unit, make sure that you have the right model and accessories. Make sure that the total length of the unit is taller than your foundation wall.

The following items should be included in the box. If parts are missing, contact Steven Levine at (203) 626-2399

- Owners Manual
- 10 Year Warranty Card
- 6" Flex Exhaust Vent
- (2) Cable Tie
- (8) ¼" x 1 ¼" Plastic Anchors
- (4) #8 x 1 ¼" Truss Quadrex Screws
- (1) 6" Pipe
- (6) Screws #8 x 2"
- (6) Screws #8 x ½"
- (1) EZ Breathe Unit

Supplies needed:

Electrical reciprocal saw or 6" diameter hole saw.

Note: a 6 ¼" hole saw may be used if a 6" saw is not available

- Electric Drill – ¼" concrete drill bit or 6" core bit assembly
- No. 2 Screwdriver
- Measuring Tape
- Duct Tape
- Hammer
- Tin Snips
- 1 tube of clear silicone caulking
- Level

TECHNICAL DATA

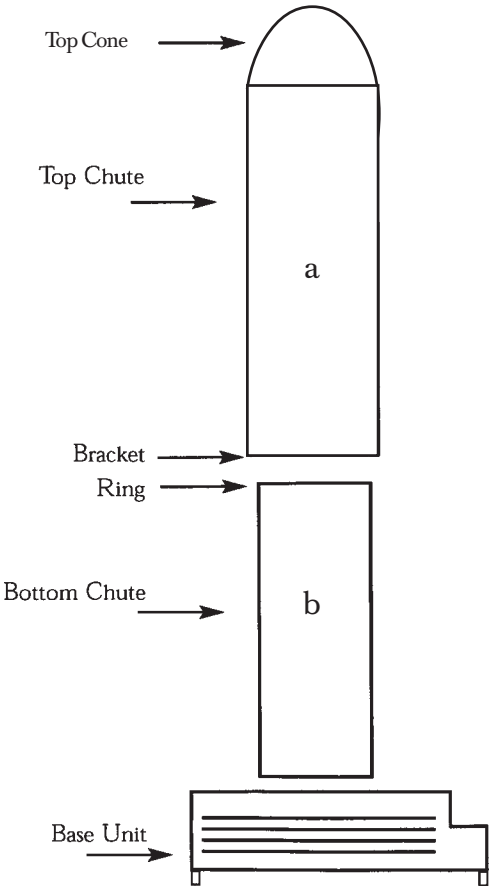
Model #A-400

Base Dimensions:
Height: 10 inches (25.40 cm)
Width: 21 inches (53.34 cm)
Depth: 6 inches (15.24 cm)
Weight: 9.25 lbs. (4.2 kg)

Chute Dimensions:
Height: Extends up
To 87" tall (220.98 cm)
Width: 12 inches (30.48 cm)
Depth: 2.5 inches (6.35 cm)

(For Taller Applications)
Extension Chute
Extends up to
102" (259.08 cm)

Service area/unit: 7000 sq. ft.
Air flow: 138 CFM's
Noise level: 42 db
Amperage: 0.27 amps
Voltage: 110 volts
Tube axle fan, 1 phase
Energy consumption: 31 watts
ETL Control # 3176995



1. LOCATION SELECTION

- The installation must be performed in the basement or lowest, wettest, coldest level of your home/building. Please find an outside wall to accommodate a 6" exit hole to the exterior of the house where no electrical wires or pipes are present. *Note: The distance between the back of the **EZ Breathe**® unit and the exterior wall should not be more than 12 feet. All rigid 6" piping is required for this application with a metal elbow.*

- Make sure the unit is NOT placed directly below the main support beam so as not to weaken the foundation integrity.

- **The minimum distance to any combustion appliance (furnace, hot water heater, gas dryer, etc.) must be 8 to 10 feet.**

- The **EZ Breathe**® appliance is designed to pull cool, damp air from the lowest level, basement, or crawlspace and expel it outside.

- Maximize the distance between the unit and your replacement air source. In many cases this might be a stairwell or opening to the upper level.

- Ensure the air from the upper level of the home/building can reach the unit in the basement/lower level. The **EZ Breathe**® ventilation unit will not serve its purpose if the air cannot flow freely between the two levels through a stairwell or by other means. An 80 sq. in. communication hole between the two levels is needed if your basement is fully isolated from the top level. Air communication can be achieved by: (1) 8" x 10" floor grill, (2) cut 1 1/2" off the basement/lower level door, (3) install a louvered door, (4) simply leave your door(s) open, (5) passive wall vent leading to stairwell. **Ensure that the air all over the basement/lower level can reach the EZ Breathe® unit.**

- Keep doors open between rooms to allow for proper air circulation or install vents in the basement/lower level between rooms.

- Do not leave furniture or boxes too close to the wall as they may restrict airflow and trap mold.

2. DRILL THE DUCT HOLE

CONSIDER LOCATION OF OUTSIDE VENT: not below deck or outside seating area. This hole is needed to pass a duct through to the outside. **Make sure that the hole location is above ground level.** Do not line up the hole with a stud, electrical wires or pipe. The exhaust hole is usually located between the floor joist of the basement/lower level ceiling.

1. From the inside, drill a pilot hole approximately ¼" at the center of the proposed hole.

Note: You may have to make inside and outside measurements to ensure accurate duct hole location.

2. Outside the home/building, find your pilot hole. Using a hole saw and the pilot hole as a guide, drill a 6" hole through the exterior of the house/building. On wood or sided installations, reverse the direction of the saw for the beginning of the cut. This will ensure a clean hole with no rough edges.

Unique foundation materials (i.e. poured concrete, cinder black, brick) require a core bit assembly.

3. PUTTING IT TOGETHER

EZ Breathe® Model A-400 is telescopic.

Slide the telescoping chute over the base unit bottom chute (b) narrow section attaches directly to base. This units base should be resting on the floor. Install 4 screws (white), two in each side to secure the chutes to the base unit motor.

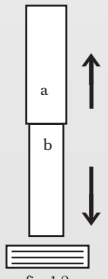


fig. 1.2

4. ATTACH FLEX, PIPE & VENT

From the inside, slide the beaded end of the pipe through the 6" outside hole so that it sticks out a couple of inches. Once this is done slide the flex onto the pipe**.** Stretch the flex and cut the excess off; if this is not done the efficiency of the unit will diminish drastically. Now that the flex is tight, it can be attached to the beaded pipe with the tie wrap. We recommend wrapping this seam where the pipe and flex meet with duct tape to ensure an airtight seal. Then from the outside, attached the vent to the 6" beaded pipe with screws provided. Hold the pipe from the inside to ensure that the screws go through the galvanized rather that bend it. Avoid pushing against flaps. Flex should not be kinked in any way.

5. SECURE OUTSIDE VENT

Insert four 2" screws to secure the vent. Make sure the vent is not twisted by inserting the screws too tight, and that the flaps are working properly. Apply clear silicone caulking to act as a weather seal.

6. FASTEN UNIT TO THE WALL

Mark where the holes for securing the unit are to be drilled (2 on the chute, and 2 on the unit itself). Move the unit to the side and drill ¼" pilot holes where you marked. Use a level to make sure the holes are even. Insert the enclosed anchors into the holes, and slide the unit back into place. Insert the screws through the unit's holes into the anchors and secure it to the wall. If attaching to paneling or drywall, screw directly to the surface.

Insert plugs into any unused holes to give the **EZ Breathe**® unit a more finished look.

7. SET HUMIDISTAT

This component continuously monitors the humidity level of the air being expelled through the **EZ Breathe**® unit. You can set this control to maintain the desirable level of humidity in your home/building.

For best results…
Set the humidistat between 35% to 40%.

Please note… even thought the ideal setting is 35%, this level of humidity, due to environmental conditions, may not be obtainable even with an **EZ Breathe**®. Consequently, the **EZ Breathe**® will run continuously. The unit has been designed to perform under these conditions.

8. SET SPEED CONTROL

The rate at which you expel the damp air outside is adjustable with the help of this control. When the humidity level is lower than the setting on the humidistat, the appliance will turn off. In the cooler months, you can set the fan on low and the humidistat to its lowest setting. This very low speed will prevent a cold draft from entering your hours/building while still allowing some ventilation for the removal of indoor pollutants.

For best results…
In the summer, set the speed control to **MED-HIGH**
In the winter, set the speed control to **MED-LOW**

PLUGGING IT IN

Your **EZ Breathe**® unit can be plugged into any 110V electrical outlet. If the cord is not long enough to reach your nearest outlet, an extension cord may be used since the unit only draws approximately .34 amps (the equivalent of a 40W light bulb).

DROP CEILINGS - "L" PIECE

1. With removable panels:

a. Move a panel to see where pilot hole in face plate will be drilled. Drill pilot hole.

b. Drill exhaust hole same directions as above.

c. Take screws out of top piece (top chute) and insert "L" piece. Attach it with 4 white screws.

d. Reattach the top piece to the other side of the "L" piece. The 6" vent will be facing up, toward the ceiling when unit is in place.

e. Cut a 6" hole in the drop ceiling panel and put it back in place.

f. Slide the unit up to the hole and push through until it's flush, while an assistant is pulling it through (from outside) the exhaust hole.

g. Finish the same as for normal installation.

h. Or snip the steel frame of the drop ceiling away, cut the drop ceiling panel to a tight fit and reinstall panel.

2. With non-removal panels, drywall, etc.

a. Use a stud finder or tap with a hammer to find floor joists, and make sure they are not in the way.

b. Cut a 6" hole in the drywall and push duct up the same way as described above.

c. Make an accurate measurement from the inside and outside, to determine where the exhaust hole is to be, then drill a pilot hole from the inside, with the drill. Note: This may require a longer bit, or angle drill.

d. Redrill the pilot hole from the outside, to make sure it is level. Drill exhaust hole and finish per normal installation.

e. Or drill a 6" hole below the ceiling in the wall (be sure this hole will be above grade)

Note: if conduit or pipes are on the wall, you may need to finish out the wall with a 2" x 4" or 1" x 4" strips.

FINISHED WALL - Z PIECE

For Finished Basements

The "Z" Piece is used to move the base of the **EZ Breathe®** unit away from the wall. Because the chute is 14" wide and 2" deep it can be placed between studs and finished over, making the finished space more usable and improve the appearance of the installation.

Install the "Z" Piece onto the base with 2 screws on each end, then lift the telescoping chute and place it over the top end of the Z Piece. Installation of the "Z" piece can be performed at the time of unit installation or added later when the space is being finished.

PLEASE REMEMBER!

- Do NOT store anything within a radius of 3 to 4 feet around the base of the **EZ Breathe®** ventilation unit. These articles will interfere with the circulation at floor level.

- Make sure that the air from the entire home/building can reach the **EZ Breathe®** ventilation unit.

- Keep doors to rooms open, or undercut doors by 1 1/2", or install a louvered door, or install vent grills in lower wall or at bottom doors, minimum 80 sq. in.

MAINTENANCE

The only maintenance needed is a periodic vacuuming of dust accumulation at the intake grills located at the bottom front of the **EZ Breathe®** unit.