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OPERATION & INSTALLATION GUIDE



Fan Air[®] AIR EXTRACTOR & DEHUMIDIFIER SYSTEM

Your system has been carefully packaged at the factory to prevent damage during shipping. However, occasional damage may occur due to rough handling.

Carefully inspect your unit for damages that could cause failures.

Report any damage to your carrier or your point of purchase.

**MODEL
F80210**

Please read these instructions carefully. **Failure** to comply to instructions and **designed operation** of this system, may **void** the warranty.

INSTALLATION GUIDE FOR THE BURCAM Fan Air MODEL F80210

SAFETY INSTRUCTIONS:

This fine product that you have just purchased is constructed from the highest quality materials and workmanship.

Before installation and operation, we recommend the following procedures:

A

CHECK WITH YOUR LOCAL ELECTRICAL AUTHORITY TO ENSURE YOU COMPLY WITH LOCAL ELECTRICAL REGULATIONS. THESE ELECTRICAL CODES HAVE BEEN DESIGNED FOR YOUR SAFETY. BE SURE TO COMPLY WITH THESE CODES.

B

WE RECOMMEND THAT A SEPARATE AND DEDICATED CIRCUIT BE PROVIDED FROM YOUR HOME ELECTRICAL DISTRIBUTION PANEL. IT SHOULD BE PROPERLY PROTECTED WITH EITHER A FUSE OR A CIRCUIT BREAKER. **A GROUND FAULT CIRCUIT INTERRUPTER (GFCI) IS MANDATORY.** CONSULT A LICENSED ELECTRICIAN FOR ALL WIRING.

C

THE GROUND TERMINAL ON THE THREE PRONG PLUG SHOULD NEVER BE REMOVED. THEY ARE SUPPLIED AND DESIGNED FOR YOUR PROTECTION.

D

NEVER MAKE ADJUSTMENTS TO ANY ELECTRICAL APPLIANCE OR PRODUCT WITH THE POWER CONNECTED. BE SURE TO UNSCREW THE FUSE OR TRIP THE BREAKER TO THE OFF POSITION AND REMOVE THE POWER PLUG FROM THE RECEPTACLE. BEFORE PROCEEDING

Preparation

The necessary tools for the installation are:

- One electric reciprocal saw or one 6¼" diameter (160 mm) hole saw.
- One electric drill with a 1¼" (6mm) diameter drill bit.
- One Robertson or Phillip screwdriver
- White weather seal caulking for around the outside vent.

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Warning

INSTALL CRAWLSPACE UNITS so that there is a minimum of 24 inches (600mm) from the bottom of the unit to the floor of the crawlspace to prevent dirt or debris from entering the suction fan.

For all other units, do not install them where the suction fan is less than 39" (975mm) from the floor of the room.

Location

- The ideal location to install your "Fan Air" unit is at the most humid part of your dwelling.
- The Unit must be installed on the inside of an outside wall to allow an outside exit for the exterior vent hole. The distance between the unit and the exterior vent hole should not be more than 24 inches (600mm).
- The unit must be installed at a minimum of 10 feet (3 meters) from a high heat source such as furnaces, boilers, radiators, baseboard heaters or any similar heat source.
- Avoid placing the unit beneath a bedroom, as the noise of the fan motor may disturb some people.

INSTALLATION STEP BY STEP

Select the appropriate location for the "Fan Air" system. It should be installed between the 2" X 10" or 2" X 12" floor joist of the basement ceiling.

STEP 1

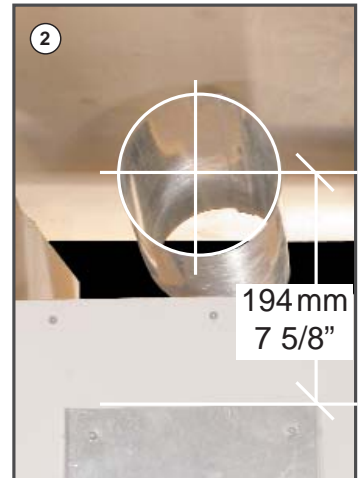
Determine the position of the air evacuation pipe. Make sure the hole position will be above ground level on the outside. Plan to leave a space between the pipe and the floor joist to avoid vibration. After choosing the ideal position, mark on the wall what would be the center opening of the pipe. Using your drill, with a 1/4" (6mm) drill bit, drill at the center opening mark from the inside of the wall to the outside. This drill hole will be used as a guide to drill the final 6 1/4" (160mm) hole for the evacuation pipe.



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STEP 2

From the center of the 1/4" (6mm) hole, calculate a distance of 7 5/8" (194mm) below the hole and make a horizontal line to mark the position of the top of the upper wall support.

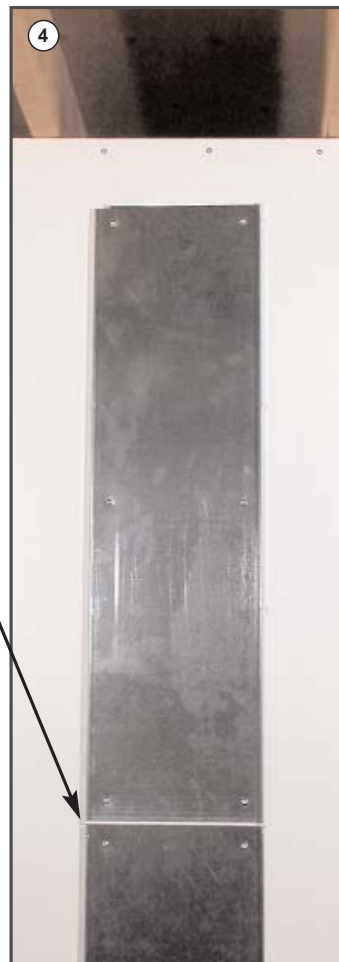


STEP 3

From the outside of the building, using the pre-drilled 1/4" (6mm) hole as a centre guide, drill a 6 1/4" (160mm) hole from the outside to the inside of the house to allow the passage of the evacuation pipe.

STEP 4

Using the provided screws and anchors, fix the long support to the wall. Then, under the long support, fix the short wall support leaving a 1/8" (3mm) space between them.



STEP 5

Still using the provided screws, fix the lower suction tunnel to the wall support. To start, screw the two mid screws first.



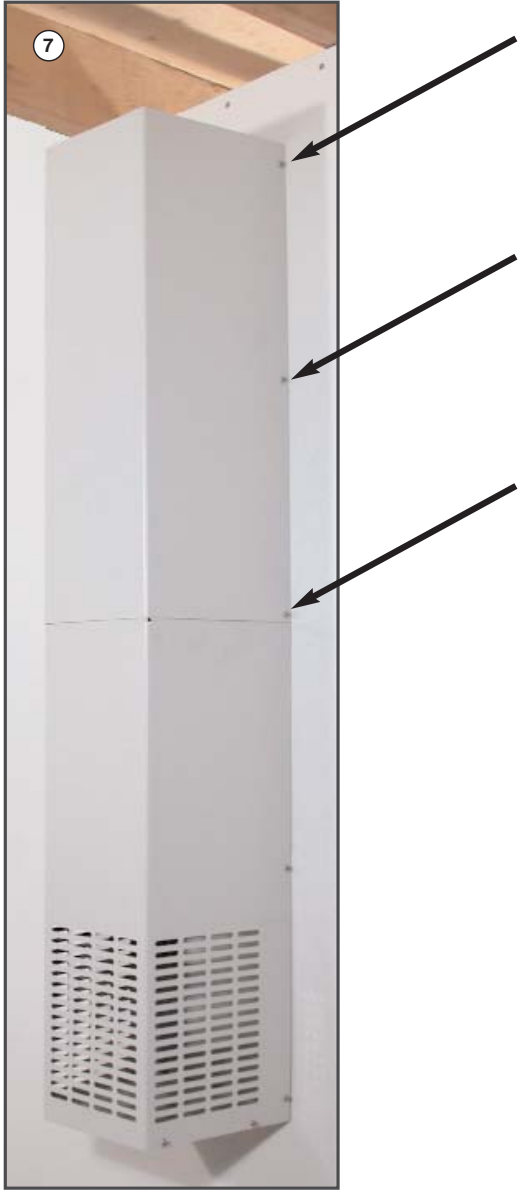
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STEP 6 Fix the base under the lower suction tunnel piece directly to the wall.



Finally, install the bottom screws of the lower suction tunnel piece.

STEP 7 Place the upper suction tunnel piece above the lower suction tunnel piece. The screws at the bottom of the upper suction tunnel also secure the top of the lower suction tunnel piece.



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STEP 8

Place the fan casing on top of the upper suction tunnel piece.



STEP 9

From the outside, slide in the evacuation pipe and adapt it to the elbow of the fan casing. This will show you where to cut the length of this pipe to finalize the installation of the outside vent.

STEP 10

It may be necessary to make several longitudinal cuts to the pipe end to secure the outside vent.



STEP 11

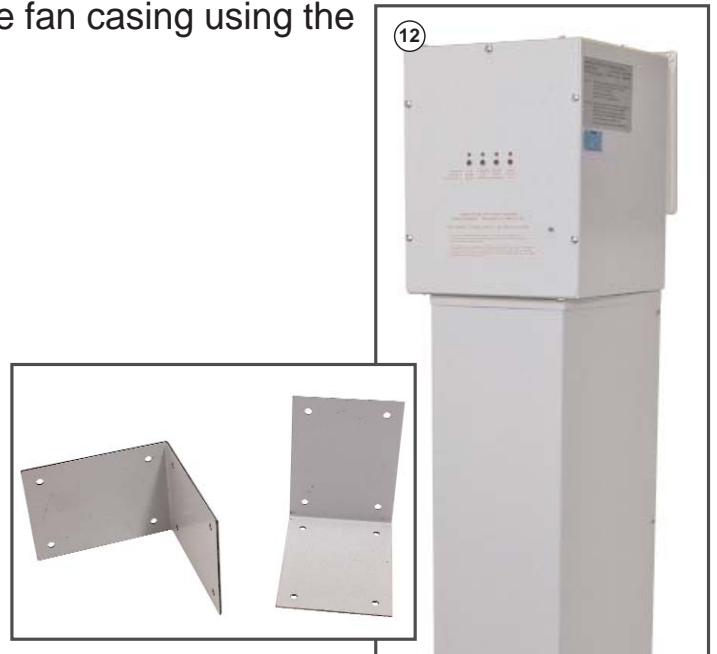
Apply the white weather seal caulking between the outside vent and the outside wall to keep the elements out.



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STEP 12

If required, you can secure the fan casing using the provided set squares.

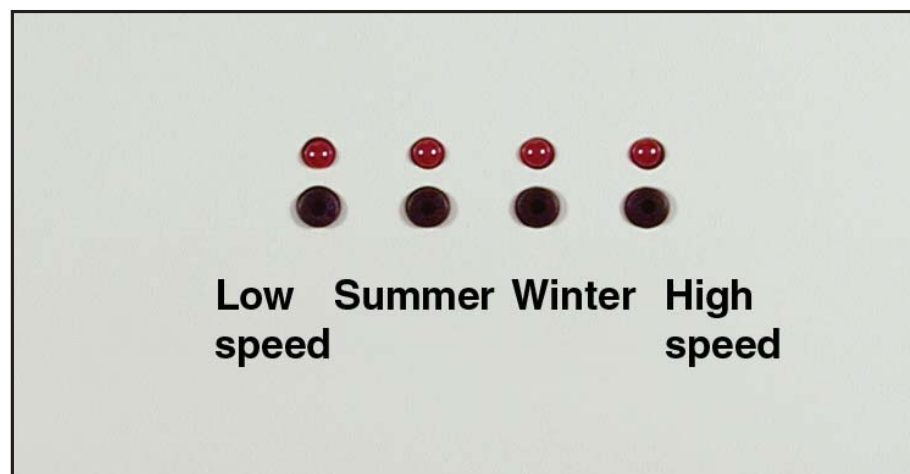


OPERATING THE UNIT

Connect the unit to a grounded receptacle (see safety instructions page 2).

At the time of connecting, the two center LED lights will illuminate during the starting process. After 15 - 20 second start-up cycle, you will be able to set the system according to your needs. At this time, the winter LED light will remain on.

Based on the season, leave the setting under winter or push the summer button.



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The seasonal setting are:

- Summer: Relative Humidity at 45% or less ∅ Low speed.
Relative Humidity at 46% or more ∅ High speed
- Winter: Relative Humidity at 55% or less ∅ Low speed.
Relative Humidity at 56% or more ∅ High speed

It is possible to override the seasonal settings. To keep the system at high speed, push the right side button. To keep the system at low speed, push the left side button. To cancel the override process, push the same button again.

Note: When you override the seasonal setting, the LED light of the overridden season remains on.

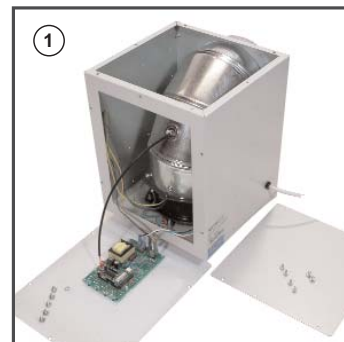
INSTALLATION ALTERNATIVE

Instead of fitting the fan casing between the floor joists, it is possible to modify the elbow to fix the fan casing below the ceiling.

The following instruction describes how to modify the elbow inside the casing.

STEP 1

Remove the top cover and the electronic control cover.



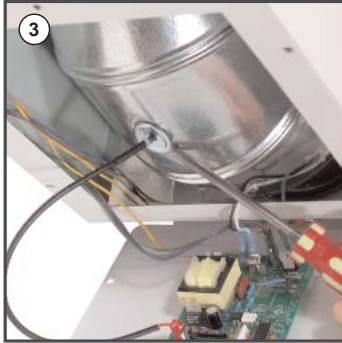
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STEP 2

Remove the fan cover to access the elbow.



STEP 3

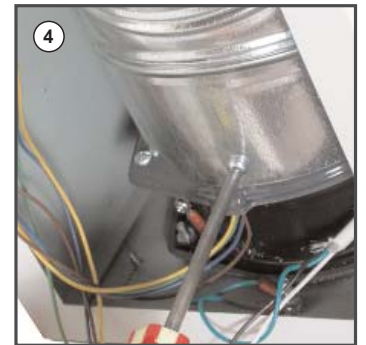


Remove the relative humidity sensor cover.

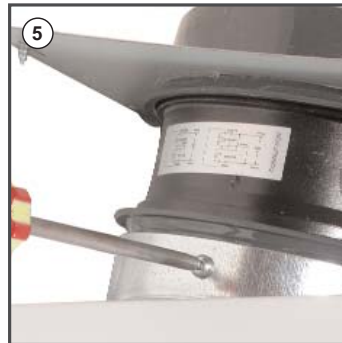
STEP 4



Remove the screw that fixes the elbow to its support.



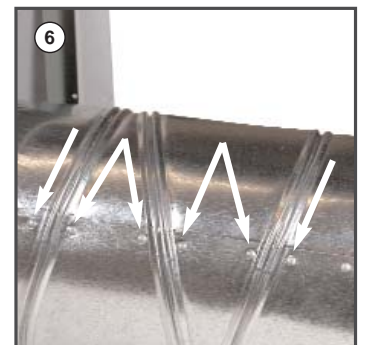
STEP 5



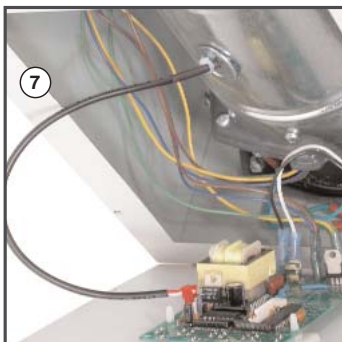
Remove the screw that fixes the elbow to its support on the opposite side. You can now remove the elbow.

STEP 6

Being careful of sharp edges, rotate the elbow to align the rivets to the same area and obtain a straight position.



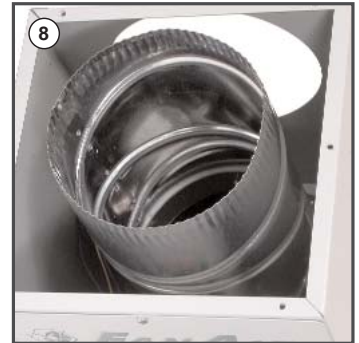
STEP 7



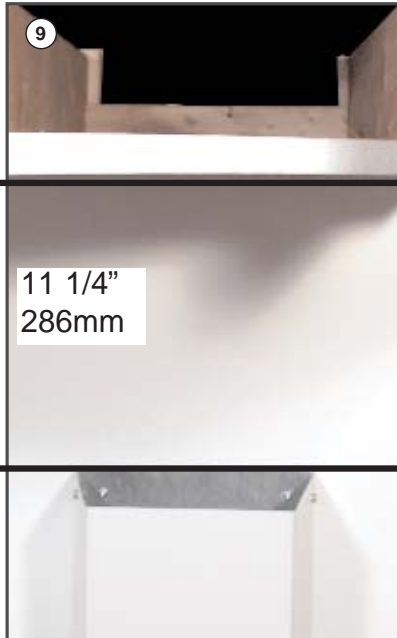
Using the screws, re-install the pipe to the support, aligning the relative humidity sensor opening towards the control panel. Then replace the sensor into its location.

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STEP 8 Using the screws, re-install the base of the fan to the fan casing. The elbow is now in a straight position pushing the air to the top.



STEP 9



In this configuration, the distance between the ceiling and the suction support is 11 1/4" (286mm).

STEP 10

The last step is to fix the elbow (not included) pre-installed in the ceiling.



PART LIST

PARTS	DESCRIPTION
F00250	Suction tunnel (3 pieces).
F00253	Suction tunnel support (2 pieces).
F00450	Fan casing (3 pieces).
F00400	Control panel.
F00401	Circuit board support (4).
F10100	Circuit board.
F10000	Relative humidity sensor kit.
F00451	Electric cord strain relief.
F00452	Electric cord.
F00351	Fan collar.
F00352	Fan and motor
F00355	Evacuation elbow.
F00254	Evacuation pipe.
F00255	Louver vent hood.