

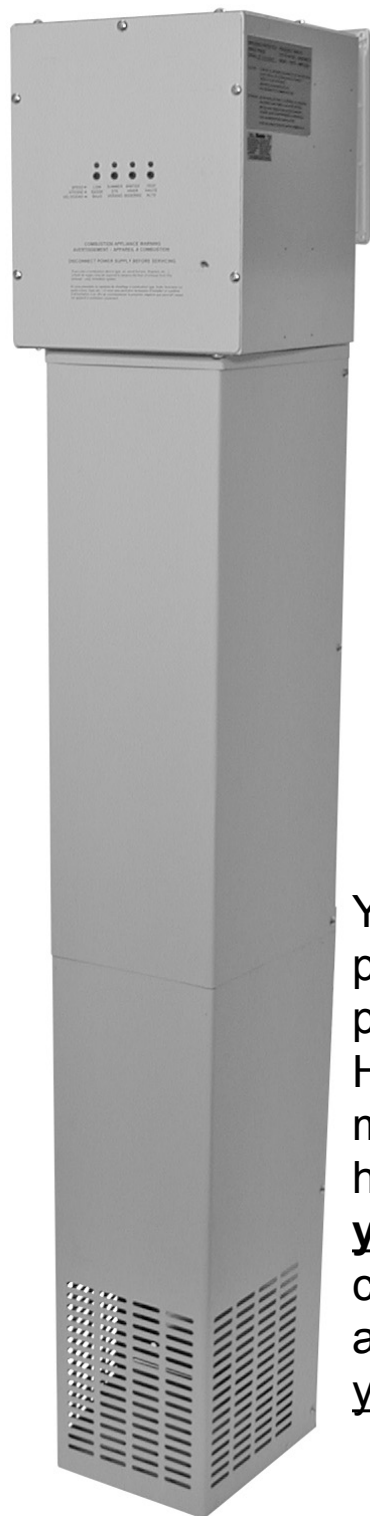
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# OPERATION & INSTALLATION GUIDE

## AIR EXTRACTOR & DEHUMIDIFIER SYSTEM



### MODEL F80210

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.

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'S Fan Air MODEL F80210

# SAFETY INSTRUCTIONS:

This fine product that you have just purchased is designed from the latest in material and workmanship.

Before installation and operation, we recommend the following procedures:

**A**

CHECK WITH YOUR LOCAL ELECTRICAL CODES TO ENSURE YOU COMPLY WITH THE LOCAL REGULATIONS. THESE CODES HAVE BEEN DESIGNED WITH YOUR SAFETY IN MIND. BE SURE YOU COMPLY WITH THEM.

**B**

WE RECOMMEND THAT A SEPARATE CIRCUIT BE LEAD FROM THE HOME ELECTRICAL DISTRIBUTION PANEL PROPERLY PROTECTED WITH A FUSE OR A CIRCUIT BREAKER. A GROUND FAULT CIRCUIT IS MANDATORY. CONSULT A LICENSED ELECTRICIAN FOR ALL WIRING.

**C**

THE GROUND TERMINAL ON THE THREE PRONG PLUGS 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. DO NOT ONLY UNSCREW THE FUSE OR TRIP THE BREAKER, REMOVE THE POWER PLUG FROM THE RECEPTACLE.

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### Preparation

The necessary tools for the installation are: One electric reciprocal saw or one 160 mm (6¼" diameter) hole saw and one 6mm (1/4") diameter drill bit with one electric drill. It is suggested to used white caulking as whether seal around your outside vent. A Robertson or Phillip screwdriver will also be necessary.

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### Warning

DO NOT INSTALL crawlspace units so that they can extend more than half way from the ceiling towards the floor of the crawlspace.

For all other units, do not install them so that they extend to a suction point less than 39" from the floor of the room.

### Location

The ideal location to install your "FanAir" is the most humid part of your dwelling. The unit must be installed at a minimum of 10 feet (3 meters) from a high heat source like a boiler, a radiator, a baseboard heater or any other similar heat source. Avoid placing the unit beneath a bedroom, as the noise of the expelled air may disturb some people.

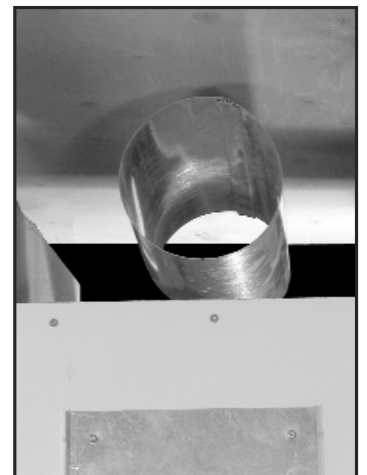
The unit must be installed inside against an outside wall to allow an outside exit for the duct. The distance between the unit and the exterior vent hole should not be more than 24" (600mm).

## INSTALLATION STEP BY STEP

Select the appropriate location for the "FanAir" system. It should be installed between the 2 X 10 or 2 X 12 (joist) of the basement ceiling.

### STEP 1

First, determine the position of the air evacuation pipe. Make sure the hole location 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 the center opening of the pipe. Then, use a drill and a drill bit of 1/4" (6mm) to make a hole representing the middle of the pipe opening, from inside to the outside. This hole will be use has a pilot to drill the final 6 1/4" (160mm) hole to introduce the evacuation pipe, to be drilled from the outside to the inside location.



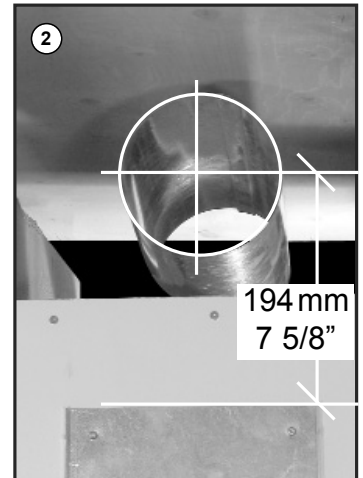
## INSTALLATION GUIDE FOR THE BURCAM'S Fan Air MODEL F80210

### STEP 2

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

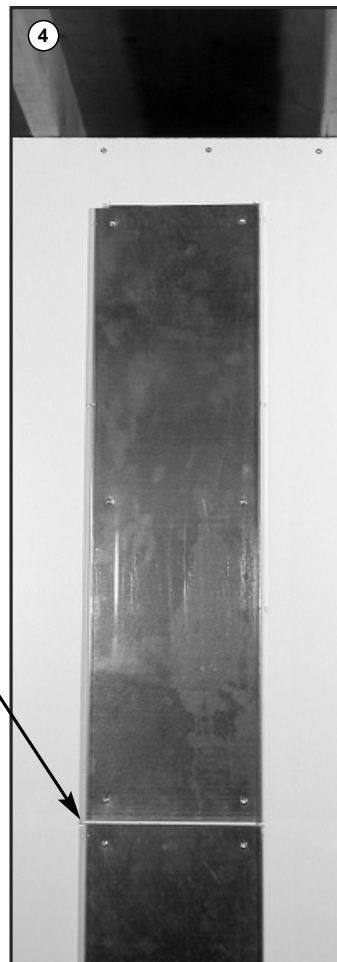
### STEP 3

From the exterior of the building, using the pre-drilled 1/4" hole as a pilot, drill a 6 1/4" (160mm) hole 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 same, fix the short wall support leaving 1/8" (3mm) in between them.



### STEP 5

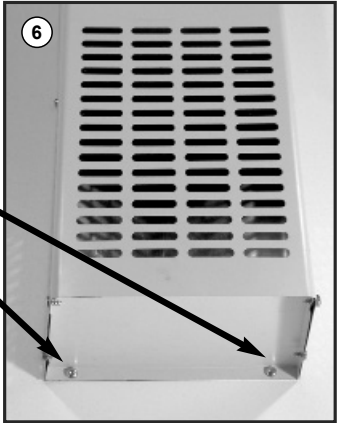
Still using the provided screws, fix the suction piece to the wall support. Then screw the mid section with 2 screws.



**INSTALLATION GUIDE FOR THE BURCAM'S Fan Air  
MODEL F80210**

**STEP 6**

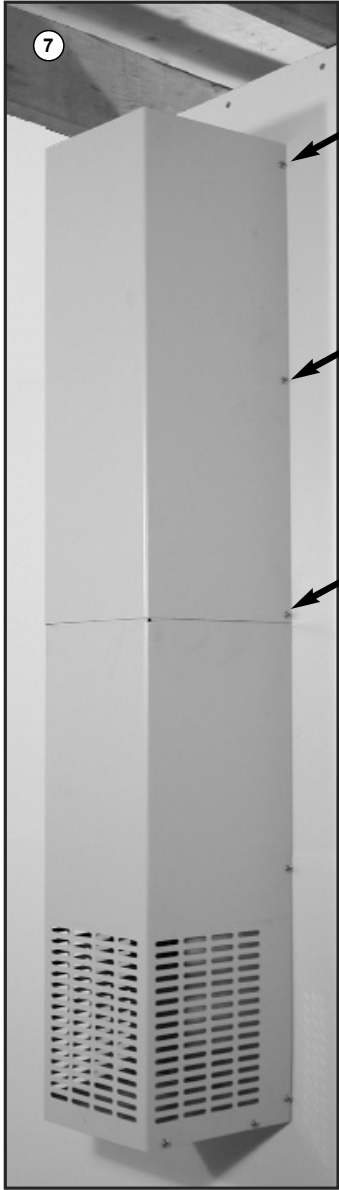
Fix the base under the suction tail end, directly to the wall.



Finally, install the bottom screws to the bottom section.

**STEP 7**

Install the top suction tunnel above the suction piece. Then screw the top suction tunnel.



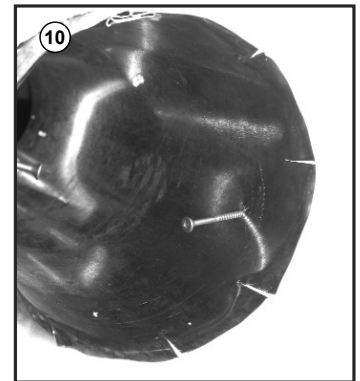
## INSTALLATION GUIDE FOR THE BURCAM'S Fan Air MODEL F80210

**STEP 8** Put the fan casing on top of the suction tunnel.

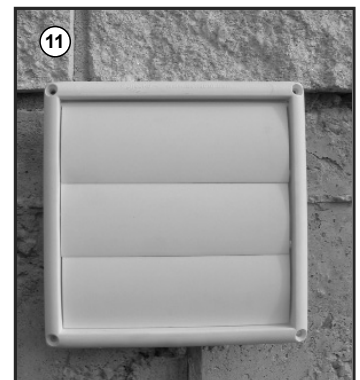
**STEP 9** Then, from the outside, slide in the evacuation pipe and adapt it to the elbow of the fan casing. This will show you where to cut the length of pipe to finalize the installation of the outside vent.



**STEP 10** It may be necessary to make several cuts to the pipe end to secure the outside vent.



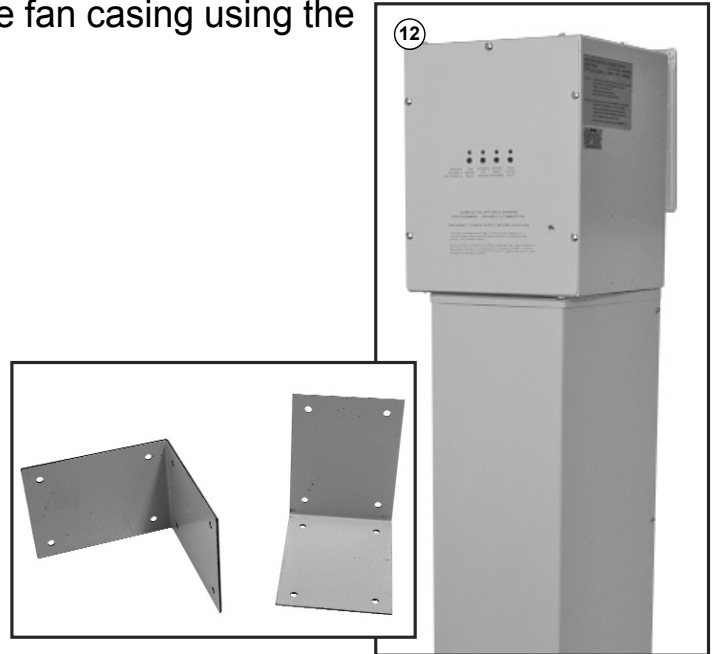
**STEP 11** Apply caulking between the outside vent and the outside wall to act as a weather seal.



## INSTALLATION GUIDE FOR THE BURCAM'S Fan Air MODEL F80210

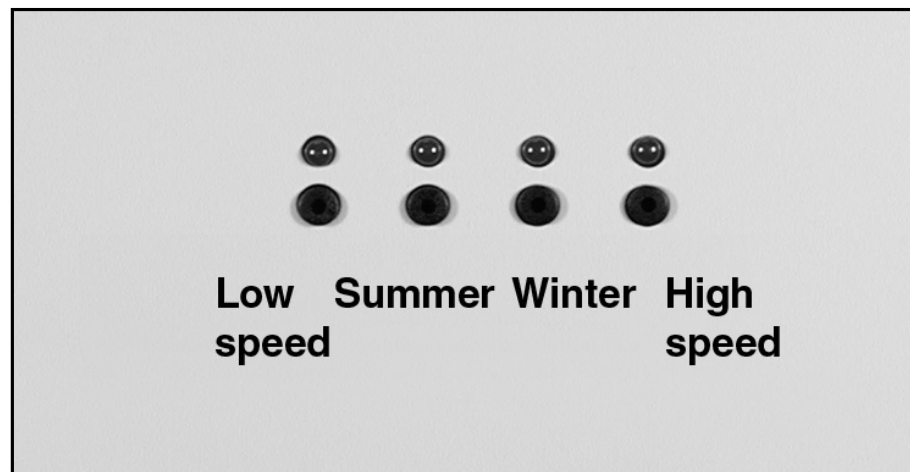
### STEP 12

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



Connect the unit to a grounded receptacle.

When connecting, the two center LED will turn on during the starting process. After 15 to 20 seconds, following this cycle, you will be able to set the system according to your needs.



## **INSTALLATION GUIDE FOR THE BURCAM'S Fan Air MODEL F80210**

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

The seasonal setting is as follow:

- 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 button. To keep the system at low speed, push the left button. To cancel the override process, push the same button again.

Note that when you override the seasonal setting, the LED of the overridden season previously setted remain on.

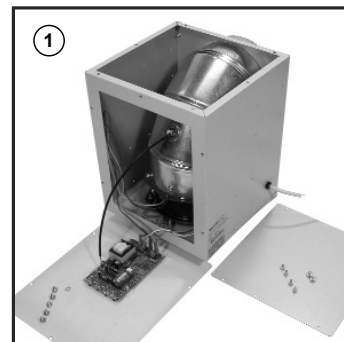
### **INSTALLATION ALTERNATIVE**

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

The following instructions describes how to modify the elbow inside the casing structure.

#### **STEP 1**

Remove the top cover and the electronic control cover.

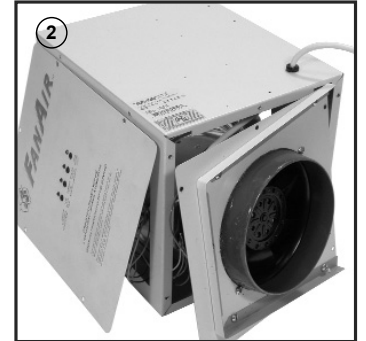




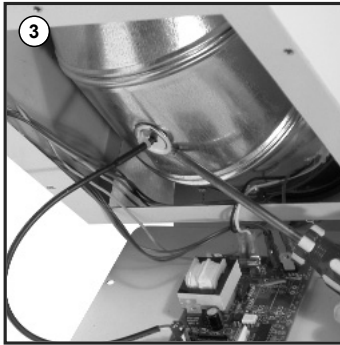
## INSTALLATION GUIDE FOR THE BURCAM'S Fan Air MODEL F80210

### STEP 2

Remove the fan cover to access the elbow.



### STEP 3



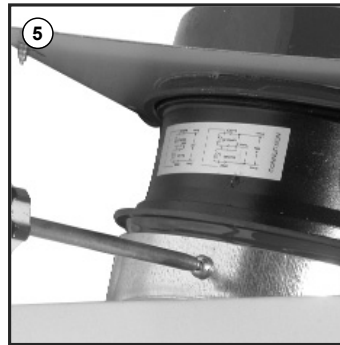
Remove the relative humidity sensor cover.

### STEP 4



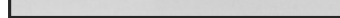
Remove the screw which fixes the elbow to its support.

### STEP 5



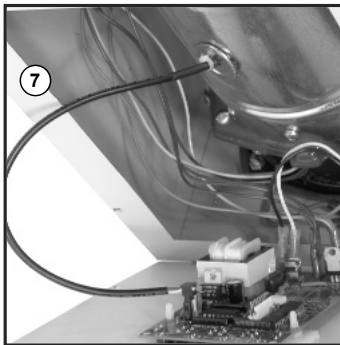
Remove the screw which fixes the elbow to its support, to the opposite side. You can now remove the elbow.

### STEP 6



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

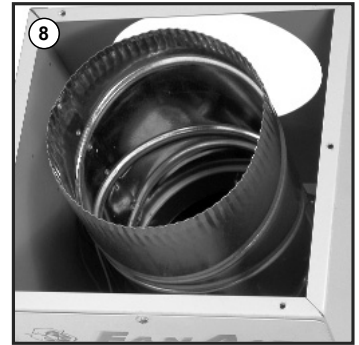
### STEP 7



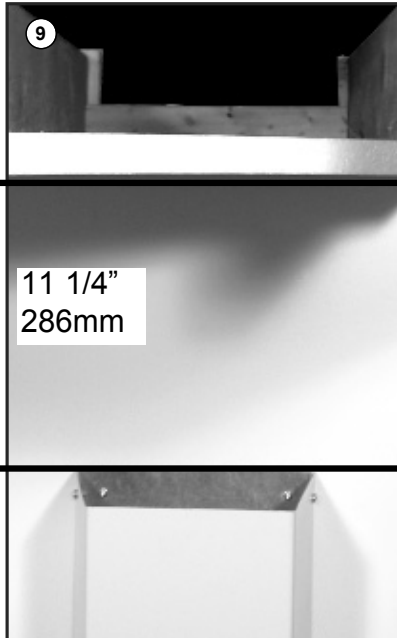
Using the screws, re-install the pipe to the support, aligning the relative humidity sensor opening towards the control panel. Then replace the sensor into its location.

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



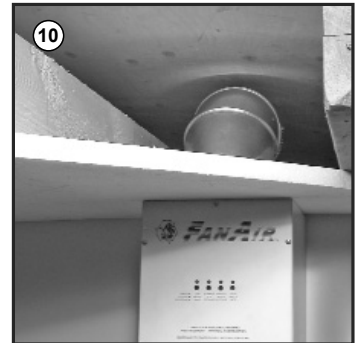
**STEP 9**



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	Panel control.
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.