

EXHAUST FAN INSTALLATION INSTRUCTIONS

C30FH, C36FH, C30FHWC, C36FHWC EC32FH,
EC36FH, EC30FHWC, EC36FHWC, FXC30FH, FXC36FH

These instructions apply to the above kilns if they are exhaust fan ready (serial number 0001 and later).

TOOLS NEEDED: 3" hole saw, 1" hole saw, 7/8" drill bit or hole saw, 1/4" x 4" drill bit, 1/8" drill bit, 1/4" slotted screw driver, 3/8 Motor Drill and a small tape measure.

MATERIALS PROVIDED: Fan assembly and wiring harness with toggle switch, Sheet metal screws, 3" x 3" perforated screen.

IMPORTANT SAFE GUARDS: DISCONNECT MAIN POWER SUPPLY AND LOCK-OUT PRIOR TO SERVICING KILN OR INSTALLING VENT. USE SAFETY GLASSES WHEN USING POWER TOOLS

Preparing the Vent Holes.

1. Locate and mark a point on the back wall of the furnace 6" from the top of the frame and 18-7/8" from the right edge of the frame.
2. Locate and mark a point directly below the first point and 4 ½ inches above the top edge of the chamber bottom frame. (If the model number has a 30 in it this point will be about 33 ½ below the first point. If the model number has a 36 in it this point will be about 39 ½ below the first point)
3. Using a 1" hole saw drill holes through the metal centered on the points marked in steps 1 and 2.
4. Using the screen provided cover the upper hole made in step 3, then mark four spots in the corners where screws may be used to attach the cover.
5. Using a 1/8" drill bit make the holes on the points marked above and using the screws provided attach the screen to the kiln.
6. For this step refer to the instructions specific to your kiln.

Model C32FH Open the door of the kiln then locate and mark three points horizontally centered on the back wall in the 2nd, 4th and 6th rows of brick from the bottom.

All other models Open the door of the kiln then locate and mark a point horizontally centered on the back wall and approximately 9" below the crown of the roof.

6. Using a 1/4" drill bit drill a holes through the points marked in step 4 through the bricks stopping when the bit hits the sheet steel at the back of the furnace.

INSTALL THE FAN ASSEMBLY:

1. Place the fan assembly over the lower 1" hole on the back side of the furnace so that the opening into the fan propellers covers the 1" hole. (Note the 4" duct fitting on the fan assembly may be oriented in any direction for convenient connection to an outside exhaust pipe).
2. Holding the fan assembly, in place mark the screw holes then remove the fan assembly.

3. Using a 1/8" drill bit make pilot holes in the locations marked in step 2 then attach the fan assembly using the screws provided.

ATTACHING THE WIRING HARNESS:

Hole for the fan cord on the back of the furnace.

1. On the back side of the furnace, locate and mark a point in the skirting below the firing chamber. This point must be near enough to the fan assembly that the black fan supply cord can reach into the hole. An exact location for this point cannot be given since a convenient spot will depend upon the orientation of the fan assembly.

2. Using a 7/8" drill bit make a hole with a center over the point marked above.

Hole for the toggle switch on the front of the furnace.

1. Locate and mark a point in the skirting below the firing chamber on the right hand side of the front side of kiln. This point should be about 4.5" from the right edge of the steel frame and 7.5" below the bottom edge of the steel frame.

2. Using a 3" drill bit make a hole with a center over the point marked above.

Installing the wiring harness.

1. Remove the skirting from the front side of the kiln.

2. Remove the wires that connect to the fan assembly from toggle switch and place the switch plate in the 3" hole. (The short wires used to connect to the power supply may remain on the switch.)

3. Center the switch plate in the 3" hole and mark the screw holes on the skirting.

6. Using a 1/8" drill bit make holes in the skirting on the spots marked above.

7. Using the screws provided attach the switch plate to the front skirt.

8. At the back of the kiln insert the wire from the fan assembly through the 7/8" hole on the back of the furnace (take care to prevent the metal edge from damaging the wire).

9. Loosen the screws on the cord clamp and insert the clamp into the 7/8" hole on the back of the furnace, then re-tighten the screws.

10. Re-attach the wires onto the switch. (Note: the wires may be connected to either side of the switch just make sure that the reds are on one side and the blacks on the other. Also be sure to connect the pilot light leads onto the terminals onto which the leads going back to the fan assembly are connected)

11. Open the power supply box and feed the connecting wires from the switch plate through the conduit connector and into the power supply box.

12. Connect the wire marked green to the ground terminal. Connect the black wire to either L1 or L2. Connect the red wire to L1 or L2 but not to the same terminal used for the black wire.

13. Replace the front skirting and the cover to the power supply box.

14. Reconnect the power supply and turn on the toggle switch to test fan.