

ENVIROCOOL INSTALLATION INSTRUCTIONS

1. Select a tentative location. Consider the likelihood of a gas pipe, water pipe, waste pipe or steel brackets being in the location by observing both inside and outside before making a final selection.
2. Inspect the wall location for obstructions using a stud finder.
3. Drill a small hole about 3" above the baseboard in each stud bay and, using a stiff wire, feel and probe for obstructions and pipes.
4. Drill a 3" hole in the inside wall using a hole saw or drywall saw in each bay and feel for obstructions, pipes, wires, and hold down brackets. .
5. Locate the center of studs and place the cutout template on the inside wall and draw the template outline. For the vertical model, the template should be centered on a stud. For the horizontal model, it should be centered between the kingstuds. (the studs on each side of the window) The template should be at least 2" above the baseboard to allow for the interior grill. Also, consider how much room you have on the outside. The unit requires at least 7 inches of free space below the cutout on the outside
6. Cutout the drywall per the template using a drywall handsaw. Do not saw through any studs.
7. Remove the drywall cutout and any insulation inside the cavity.
8. Transfer the location to the outside by drilling 3/8" holes at the 4 corners through the outside wall from inside.
9. Temporarily tape plastic or cardboard over the inside opening to keep out dust & debris while cutting the opening in the outside wall.
10. Place the template on the outside wall and draw the outline.
11. Using a circular saw, cut to the outline. Set the blade depth to the wall thickness plus approx. 1/4".
12. For under a window installation, remove all studs in the opening by saw cutting at the top and the bottom of the opening with a reciprocating saw (sawzall).

For a vertical model installation, leave the center stud intact. On the inside wall side, cut a small notch at the top and bottom face of the center stud to allow the interior grill to fit flush.
13. If electric wire is encountered in the opening, turn off the power to that circuit and then cut the wire in two at the center of the opening. Chisel a notch in the studs

at the sides of the wire hole to bring the wire to the outside, so that the wire is flush with the face of the studs.

14. If no electric wire is found in the opening, bring a wire from the nearest wall receptacle on the inside wall into the opening and route to the outside by chiseling a notch in the stud as described above.
15. Line the cutout opening with coroplast. The coroplast should be wide enough to cover the opening as well as the thickness of the inside drywall edge plus the outside wall edge. The bottom coroplast blocks should slope very slightly downhill toward the outside. Cover the sides of the opening with coroplast so that no bare wood is visible. Apply duct tape completely around the opening on both the inside and outside. Install the duct tape by allowing $\frac{1}{2}$ of the width of the tape to be on the coroplast in the opening and the other half of the tape is then folded over onto the inside and outside walls..
16. Locate and fasten the main frame to the outer wall using (3) #10 x 2" screws on each side that will go through the exterior wall and into each side stud. Where electric wire is protruding, cut a notch in the mainframe using tin snips to eliminate contact with the mainframe. Prior to fastening the mainframe to the wall, run a large bead of window and door caulk around the top and sides of the back of the mainframe to obtain a good seal to the exterior wall. After fastening the mainframe in place, apply an additional small bead of caulk around the top and sides of the mainframe to wall joint.
17. Make electrical connections at inside of mainframe and enclose with sheet metal cover and 2 screws. Then turn power back on.
18. Bring $\frac{1}{4}$ " poly waterline from nearest outside source such as a hose bib, and connect to bottom left corner of mainframe. Fasten poly pipe to wall with clamps to maintain a neat, straight installation so that there are no places for poly pipe to become snagged and damaged.
19. With water supply turned on, check for correct operation of float valve. Water should fill pan to approx. $\frac{1}{4}$ " to $\frac{3}{4}$ " below top of plastic overflow tube.
20. Install media holder by attaching to mainframe with (4) #10 x $\frac{5}{8}$ sheet metal screws.
21. Attach $\frac{5}{8}$ " poly water tube to water pump and place water pump in right rear corner of water pan. Secure tube to side of media holder with wire ties through adhesive anchor pads.
22. Check for proper flow of water through the media and back into water pan. You can use the thermostat as a switch by turning the temperature setting up or down to operate the pump. After thorough checkout of water flow, reset the thermostat to factory marking at 70 degrees.

23. Install the exterior housing. Hold in place with (2) #10 x 5/8 self drilling sheet metal screws on each side.

24. Install interior grill with white screws provided.

04/04/08

ENVIROCOOL SPECIFICATIONS

	<u>Model EC-3040</u>	<u>Model EC4824</u>
Nominal Size (wall opening)	30" w x 40" h	48" w x 24" h
Interior Grill Size	32" w x 42" h	50" w x 26" h
Exterior Dimensions	34-3/4" w x 50-1/8" h x 11-1/2" d	52-1/4" w x 34-7/8" h x 11-1/2" d
Pump Motor Voltage	120V AC 60Hz	120V AC 60Hz
Pump Motor Power Consumption	25 Watts	15 Watts
Cooling Media Thickness	8"	8"
Cooling Media Effective Area	7.92 square feet	7.33 square feet
Effective Cooling Capacity @ 87% Efficiency	7,128 CFM	6,597 CFM
Box Size	40" x 54" x 15"	40" x 55" x 15"
Weight (shipping)	145 Lbs.	143Lbs.

7060 Media:

7mm flutes 45 degrees one direction
15 degrees the other (low density)

Media Specifications	
Base Sheet	Cellulose
Max Air Temp	300 Degrees F
Max Water Temp	130 Degrees F
Dry Weight	1.8 lb/cf
Wet Weight	3.5 lb/cf
pH Range	6-9

