READ COMPLETE SAFETY INSTRUCTIONS AND INSTALLATION TEMPLATE BEFORE STARTING

ATTENTION INSTALLER:

This product must be installed by a qualified heating and air conditioning contractor. Failure to do so could result in serious injury from electrical shock. This product must be installed in compliance with all local, state and federal codes.

FAN POWERED HUMIDIFIER

WARNING

1. ELECTRICAL SHOCK HAZARD. Disconnect electrical power to the furnace and install lock-out tag before starting installation. Failure to do so could result in serious injury from electrical shock.
2. SHARP EDGES HAZARD. Sharp edges may cause serious injury from cuts. Use care when making plenum openings and handling ductwork.
3. RISK OF SCALDING. Water temperature over 125°F can cause severe burns and scald instantly. Shut off the hot water supply before disconnecting or tapping into any hot water supply line.

CAUTION

RISK OF PROPERTY AND EQUIPMENT DAMAGE.
1. Do not install humidifier where freezing temperatures could occur. The water line could freeze and crack causing water damage to the home.
2. Do not install humidifier on the furnace cabinet.
3. Do not install humidifier on a plenum face where the blanked off ends of the cooling coil will restrict air movement through the humidifier.
4. Do not set humidity level above recommended or to recommended level if condensation exists on inside windows of any unheated space, as condensation damage may result. Excess humidity can cause moisture accumulation which can allow the possibility for mold growth in the home.
5. Do not connect the humidifier power cord to multi-speed furnace blower motors or blower motors other than 120 VAC. Premature component failure may result.
6. When installing Manual Humidifier Control on a downflow furnace, ensure blower continues to run after a heat call is satisfied to eliminate high temperatures from damaging the Control.
7. Do not install humidifier where water pressure exceeds 125 psi, since damage to the humidifier may result. Follow codes in effect concerning pressure reduction.
8. Do not install humidifier where water pressure exceeds 0.4 in. wg.

SPECIFICATIONS

HUMIDIFIER DIMENSIONS
- Width 15 5/32"
- Height (including solenoid valve and drain spud) 18"
- Depth 10 11/32"

PLENUM OPENING
- 14 3/4" W x 14 5/16" H

WATER FEED RATE
- 6 gph

ELECTRICAL DATA
- 120 VAC-60 Hz, 0.8 AMP

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NOTE

1. The humidifier is not suitable for installation on ducts with horizontal airflow. Performance will be reduced.
2. When installing humidifier on a heat pump system, use hot water. The heated water supplements the reduced supply air temperature as added heat for evaporation.
1. Place the humidifier on a flat surface. Unlatch humidifier cover assembly from base assembly at the bottom of the cover, lift and set aside. Pull out the evaporative assembly by grasping at the top and tapping out. (See Figure 1)

2. Using a level, position this template at least 6" upstream of the furnace. A decrease in relative humidity reverses the process and closes the control switch. For Return Duct Mount:
   - Position manual humidistat at least 6" upstream of the furnace fan motor circuit. Outlet box can be accomplished several different ways. See wiring diagrams on other side for options.
   - Open saddle valve completely (24 VAC) applications only. Install 24 VAC wiring to Humidifier Control as shown in Wiring Diagrams, opposite side.
   - When installing humidifier on heat pump system, humidifier must be at the bottom of the scale control insert (5) sitting firmly in the inside of the drain spud attached to the base. Push the evaporative assembly in at the top between the retaining ribs that hold the assembly in place in a vertical position. Reinstall cover assembly by hooking at the top of base assembly and latching at the bottom.

3. Position the two plastic hooks on the top of base along the top edge of the plenum opening. Push base up to engage the two hooks and sheet metal along the top edge opening. Push base in and slide down so that the bottom four hooks engage the sheet metal at the bottom edge of the opening. Secure base to opening using top three screw holes in housing. An additional hole is provided at the bottom for securing the base to the plenum. (See Figure 2)

4. While pressing the base against the plenum, reach through the center opening and turn left and right swing latches down to secure the base onto the plenum. (See Figure 3)

5. Reinstall the evaporative assembly into the base, with the bottom of the scale control insert (5) sitting firmly in the inside of the drain spud. Tap into water supply line with the saddle valve (not furnished). Run drain line from drain spud to floor drain. CAUTION: If hose clamp is used, do not overtighten, drain spud could crack. Make sure drain line has constant downward slope and is not kinked. NOTE: Do not sweat or directly attach metal drain line to fitting. Do not use solvent type adhesives when connecting plastic drain line, since damage to fitting could result.

6. Locate and install the Manual Humidifier Control by following the instructions shown in step #6A. For Automatic Humidifier Control installation instructions, see Form IM-HUCRL-FP included with the Automatic Control. DISCONNECT ELECTRICAL POWER TO FURNACE BEFORE PROCEEDING!

7. The humidifier power cord must be plugged into a 120 VAC outlet. Wire an electric outlet box to power source other than furnace fan motor circuit. Outlet box can be powered off of the 120 VAC line before it enters furnace. In order for the humidifier to turn on, the furnace blower must be operating and the Humidifier Control must be calling for humidity. The interface between the humidifier and the furnace to detect blower operation can be accomplished several different ways. See wiring diagrams on other side for options.

8. Tap into water supply line with the saddle valve furnished. See instructions on saddle valve package. The humidifier will function with cold, hot, softened or unsoftened water. The use of service hot water (140°F MAX.) and constant blower operation will provide maximum evaporative capacity. When installing humidifier on heat pump system, humidifier must be supplied with service hot water.

9. Connect tubing from the saddle valve to the inlet side of the solenoid valve using ¼" O.D. copper tubing (not furnished). DOUBLE WRENCH TO PREVENT LEAKING! (See Figure 4)

10. Drain spud is designed to accept ½" I.D. plastic hose (not furnished). Run drain line from drain spud to floor drain. CAUTION: If hose clamp is used, do not overtighten, drain spud could crack. Make sure drain line has constant downward slope and is not kinked. NOTE: Do not sweat or directly attach metal drain line to fitting. Do not use solvent type adhesives when connecting plastic drain line, since damage to fitting could result.

11. Open saddle valve completely and turn on furnace. Turn up Humidifier Control so that humidifier will turn on. Allow humidifier to run until water is observed coming out of the drain line. Check to see if humidifier and saddle valve are watertight. Check operation to make sure that all electrical components function properly. Set Humidifier Control to level recommended in Owner’s Manual.

NOTE: The saddle valve is designed to be fully opened or closed. Do not use it to regulate water flow.

12. Avoid injury from sharp edges when cutting opening.

13. Use Humidifier Control in low voltage (24 VAC) applications only. Install 24 VAC wiring to Humidifier Control as shown in Wiring Diagrams, opposite side.

14. Make sure no bare wires are exposed or insulation damaged. Insulation on wire should extend to head of screws.

15. Make sure all splices are mechanically and electrically secure.

16. To remove dirt or other foreign matter from control and interior, dust lightly with a fine, soft brush.

17. Lightly with a fine, soft brush. (sheet metal screws)

18. (1/4" copper)

19. Water supply line (1/4" copper)

20. Part No. P-110-005 (if required)

21. Orifice

**IMPORTANT!** Be sure owner’s manual containing instructions for operation and warranty information is given to owner in order to avoid unnecessary calls. Warranty is void unless humidifier is installed by qualified heating and air conditioning contractor due to possible misapplication of product.