

HUMIDIFIER

Precaution:

The installer should be an experienced service technician. **DISCONNECT ELECTRICAL POWER BEFORE BEGINNING INSTALLATION.** Do not install where temperatures fall below 32° F / 0° C or where plenum temperatures exceed 150° F / 66° C. When wiring into a multi-speed blower circuit see Step 6.

Installation:

The humidifier may be mounted with the 6["] outlet to the right or left by inverting the cabinet and reversing the positions of the side panel. The humidifier may be mounted on the supply or return air plenum with equal efficiency.

FOR INSTALLATION ON A VERTICAL PLENUM SURFACE OF ANY FORCED AIR FURNACE

Additional Materials That May Be Necessary:

- 1/4["] diameter plastic supply tubing (or 1/4["] copper supply tubing for hot water applications).
- 2. 6" diameter galvanized by-pass pipe (provided with "B" models, which include a bypass kit).
- 3. 18 Gage electrical wire and wire nuts
- 4. Current sensing relay (part number HEP-GA50 suggested) or air pressure proving switch (part number HEP-12500 suggested).
- 5. #8 self piercing sheet metal screws.

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HE12

Evaporative Bypass Humidifier



DOWN FLOW



Typical Installation For Bypass Humidifiers

Important:

HVAC Installer: Read and save these instructions. This guide to be left with equipment owner. Equipment Owner: Fill out and send in the product registration card to register this product. Product registration is required to get the benefits of the warranty, except that failure by residents of California or Quebec to register the products will not diminish their warranty rights.

See the full warranty text at your dealer or at the end of this document.



This humidifier is capable of delivering up to 12 GPD of humidity, according to the industry-standard performance test, AHRI 610, which specifies an air flow of approximately 200 CFM and plenum temperature of 120° F / 49° C. If the furnace or air handler operates at lower temperatures or air flow, the amount of humidity delivered will be less than 12 GPD. If an HRV is installed in the system, some of the humidity in the house will be transferred outside by the HRV; if this is the case, the humidifier should be sized to accommodate for this humidity loss.



The Clean Comfort Model HE12 may be installed on either the supply or return plenum of a forced air handling system. Select a location for the humidifier that allows for service and maintenance. Using the installation template supplied with this humidifier, cut out a rectangle 8-7/8" wide by 9-1/2" tall. Extend horizontal centerline of cut out to the adjacent plenum. Cut a 6" hole 10" to 15" from side of humidifier, on cabinet centerline, using connecting collar as guide. The bypass is reversible and can be mounted on the right or left side of the humidifier.



Open cover and remove evaporator pad assembly. Humidifier is self retaining. Slide top side in first, then slide chassis down. Level chassis and install center screws. If by-pass pipe installs to opposite side of chassis, bend clip on chassis, remove side discharge, and reinstall discharge to opposite side of chassis. Install remaining four corner screws.



Connect by-pass pipe to collar and humidifier cabinet. Using holes at top and bottom of side panel discharge, pierce 2 self tapping screws through by-pass pipe.



Saddle Valve Installation Option: Mount the self tapping saddle valve (4a) or code valve (4b next page) on either a cold or hot water* pipe. A side or top mount is best to avoid clogging from pipe sediment. Connect 1/4["] O.D. tubing to the saddle valve. Copper tubing requires a brass compression nut and brass sleeve. Plastic tubing requires a brass compression nut, a brass insert inside the tubing and a plastic sleeve on the outside.

NOTE: DO NOT USE PLASTIC TUBING ON HOT WATER OR IN CON-TACT WITH ANY HOT PLENUM SURFACE OR DUCT. INSTALLATION OF THIS SADDLE VALVE MUST MEET OR EXCEED LOCAL CODES AND ORDINANCES. USING HOT WATER WILL INCREASE THE AMOUNT OF HUMIDITY DELIVERED TO THE HOME, AND WILL ALSO INCREASE THE DEMAND ON THE HOME'S DOMESTIC HOT WATER SYSTEM.





HEP-GCV3412 Code Valve Installation Option:

Copper Pipe

- 1. Turn off water supply.
- 2. Clean pipe, fittings and valve with sandpaper or wire brush.
- 3. Apply a thin layer of flux to all surfaces to be soldered.
- 4. Assemble valve to pipe and/or fittings.
- 5. Cooling the valve by wrapping a wetted rag around the valve is optional.
- Heat the joints with a torch. Apply solder to each joint. Continue to apply heat sufficient to keep solder liquid.
- 7. After solder has filled entire joint area, remove heat and allow joint to cool. Do not move or disturb.
- 8. Slide compression nut over 1/4" copper tube followed by compression sleeve.
- 9. Insert tube into valve fully and tighten nut.
- 10. Turn on water supply and check for leaks.
 - * CODE VALVE IS INCLUDED WITH AUTOMATIC MODELS ONLY, but can be purchased separately as part number HEP-GCV3412.



Connect 1/4" supply tube at inlet of solenoid (there is an internal brass filter beyond inlet, not shown). DO NOT USE PLASTIC TUBING IN CONTACT WITH ANY HOT PLENUM SURFACE OR DUCT. IF USING PLASTIC TUBING, USE TUBE SUPPORT HEP-P189 AND PLASTIC COM-PRESSION SLEEVE HEP-P190 (Supplied with humidifier).

Connect drain hose to $1/2^{"}$ spout on humidifier cabinet using hose clamp. Run $1/2^{"}$ hose to suitable drain such as floor drain, sewer or laundry sink. Be sure hose has continuous slope and is not kinked at any point.

Turn damper knob to winter (open) position. Turn on water supply and check operation of humidifier. Set humidistat to a demand setting. With the furnace off, the solenoid valve should be closed. Start the furnace, the solenoid valve should open when the blower or burner circuit is energized. Check flow of water through distributor trough and evaporator pad. The standard HEP-GA4231 YELLOW orifice will supply approximately 3.5 GPH of water at a line water pressure of 60 psi. For low water pressures (20-40 psi) a larger ORANGE orifice HEP-GA4299 is available to provide the same flow. Leave humidistat set at the recommended setting.



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