

READ COMPLETE SAFETY INSTRUCTIONS AND INSTALLATION TEMPLATE BEFORE STARTING

Attention Installer: **WARNING**

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. 120 volts may cause serious injury from electrical shock. Disconnect electrical power to the furnace before starting installation.
2. Sharp edges may cause serious injury from cuts. Use care when making plenum openings and handling ductwork.
3. Hot water temperatures in excess of 125°F. may cause serious injury from burns. Make sure water supply is shut off before connecting the water supply.

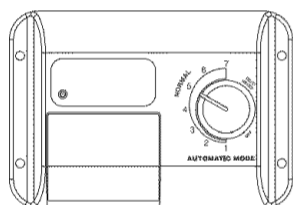
CAUTION

1. Do not install unit where freezing temperatures could occur.
2. Do not install unit on the furnace jacket.
3. Do not install unit on a plenum face where the blanked off ends of the cooling coil restrict air movement through the humidifier.
4. Do not set humidity higher than recommended. Condensation damage may result.
5. Do not set humidity up to recommended levels if there is condensation on the inside windows of any unheated living space. Condensation damage may result.
6. Do not install unit on the supply plenum where static pressure exceeds 0.3" W.C.
7. Do not install humidifier where water pressure exceeds 125 psi, since damage to the unit may result. Follow codes in effect concerning pressure reduction.

WIRING DIAGRAMS

- NOTE: 1. USE 120 VAC POWER SOURCE OTHER THAN FURNACE MOTOR CIRCUIT.
 2. DO NOT USE 24 VAC "HUM" TERMINALS ON FURNACE TO ENERGIZE HUMIDIFIER.
 3. FOR APPLICATIONS CONTROLLED WITH THERMIDISTAT, REFER TO THERMIDISTAT INSTALLATION INSTRUCTIONS.
 4. CONNECT SOLENOID VALVE TO HOT WATER IF HUMIDIFIER WILL BE OPERATED INDEPENDENT OF HEATING CALLS OR ON RETURN AIR PLENUM.

HumidiTrac™ Humidifier Control



For detailed humidifier control installation and wiring instructions, see Form IM-AHC-01 included with humidifier.

DIAGRAM A:
STANDARD FURNACE
VARIABLE SPEED FURNACE
VARIABLE SPEED FAN COIL

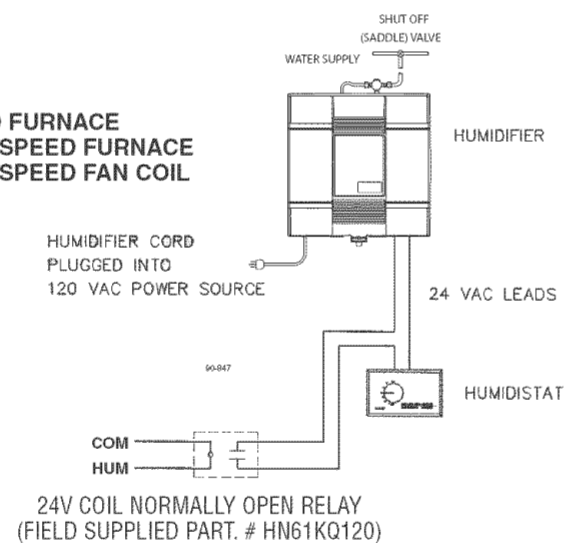


DIAGRAM B:
STANDARD FAN COIL

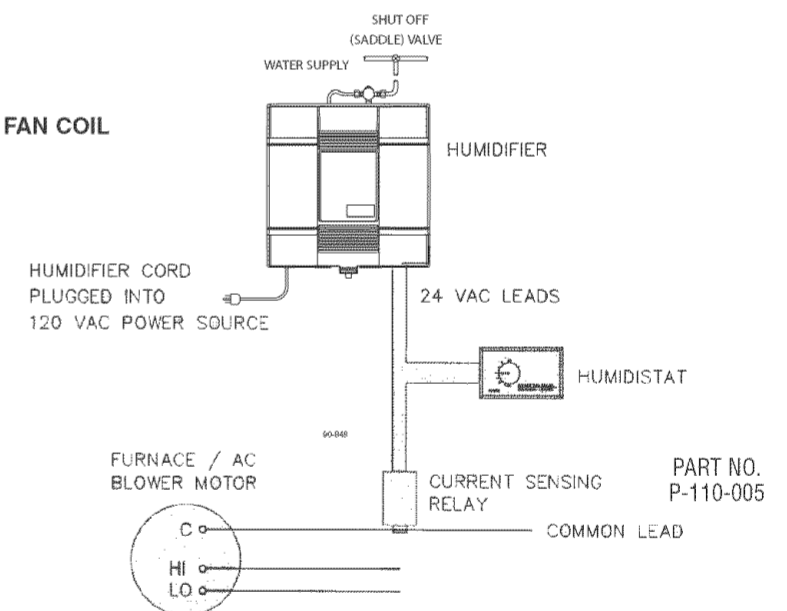


DIAGRAM C:
THERMIDISTAT™ HOOK-UP
WITH ALL INDOOR EQUIPMENT

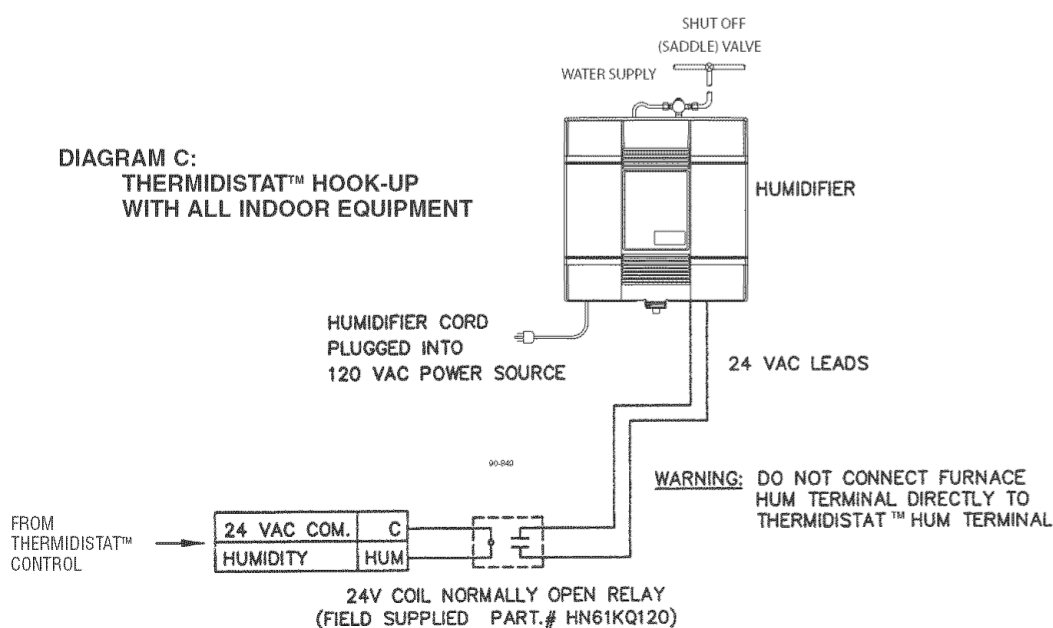


DIAGRAM D:
ZONING HOOK-UP
WITH EQUIPMENT CONTROLLER

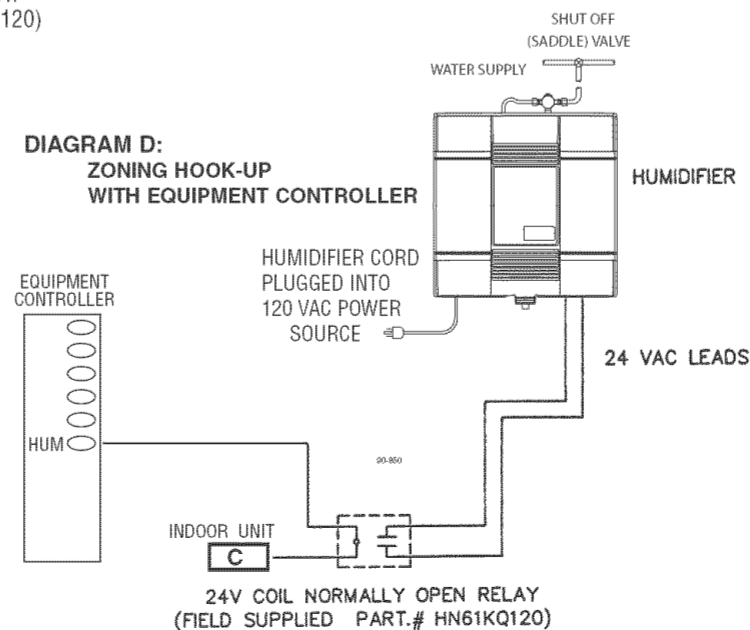
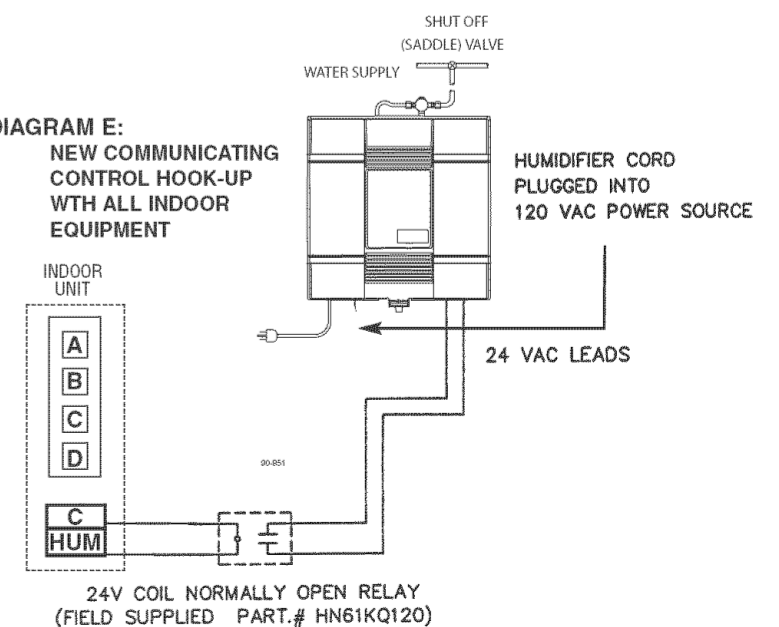
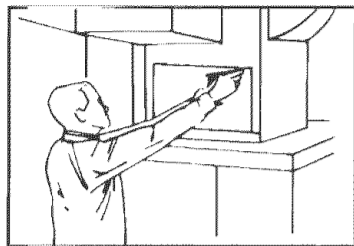


DIAGRAM E:
NEW COMMUNICATING
CONTROL HOOK-UP
WITH ALL INDOOR
EQUIPMENT

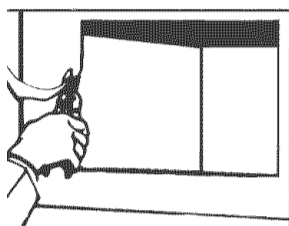


**READ COMPLETE WARNING AND CAUTION INSTRUCTIONS BEFORE STARTING
TEMPLATE MUST BE LEVEL**

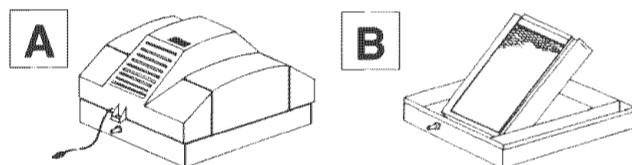
- 1.** The power humidifier is not recommended for installation on horizontal furnaces, rather a bypass unit is the best choice. For all other forced air furnaces, the power unit is normally placed on the supply plenum. If installed on the return plenum, connect the unit to service hot water (140 degrees Fahrenheit maximum) to provide a heat source for evaporation. Using a level, position the template at least 1-1/2" above the furnace housing or cooling coil (if applicable) for clearance of the drain line. Trace around template edges. Remove template.



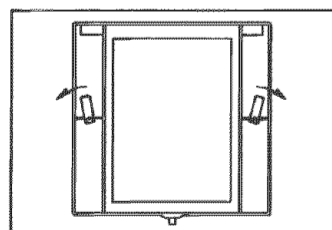
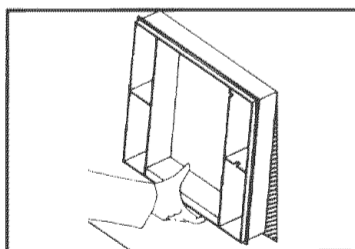
- 2.** Accurately cut the plenum opening 14-13/16"Wx14-1/4"H, being careful to avoid injury from sharp edges.



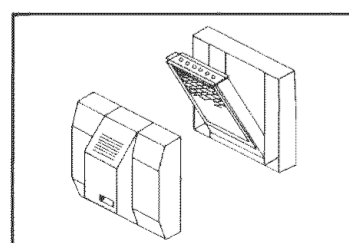
- 3.** A. Unlatch humidifier cover assembly from base assembly at the bottom of the cover, lift and set aside.
B. Pull out the evaporative assembly by grasping at the top and tipping out.



- 4.** Position the top two plastic hooks along the top edge of the plenum opening. Push base up to engage the two hooks and sheet metal along the top edge of 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.



- 5.** While pressing the base against the plenum, reach through the center opening and turn left and right swing latches down to secure the plenum onto the base.



- 6.** Reinstall the evaporative assembly complete with the Humidifier Pad into the base assembly. Push the evaporative assembly in at the top between the retaining ribs that hold the assembly in place in a vertical position. Reinstall the cover assembly by hooking at the top of base assembly and latching at the bottom.

7A. HUMIDISTAT INSTALLATION INSTRUCTIONS FOR MANUAL HUMIDISTAT

The humidistat is designed for low voltage service to control humidification equipment. An increase in relative humidity expands the nylon ribbon that opens the control switch to stop operation on the humidifier. A decrease in relative humidity reverses the process and closes the control switch. Install the humidistat.

DISCONNECT THE ELECTRICAL POWER TO FURNACE BEFORE PROCEEDING.

LOCATION

- Locate on inside wall of living area approximately 5' above floor, or in the furnace return air plenum or duct. For return air plenum installation or Humidistat Adapter Plate, Totaline Part #4402 (not included).
- Do not locate control in the direct path of furnace discharge air or drafts from open doors and windows.
- Do not install where operation might be affected by lamps, sunlight, fireplace registers, radiators, concealed air ducts and pipes, or room occupants.
- The basic rules for location of thermostats also apply to humidistats.

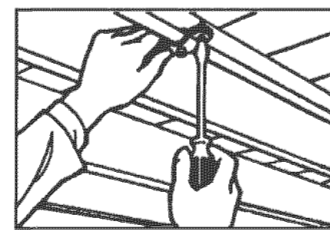
GENERAL INSTRUCTIONS

- DO NOT ATTEMPT TO REPAIR OR RECALIBRATE CONTROL. Controls requiring service should be returned to your distributor.**
- Control must be installed using 24 volts!
- Make sure no bare wires are exposed or insulation damaged. Insulation on wire should extend to head of binding screws.
- Make sure all splices are mechanically and electrically secure.
- To remove dirt or other foreign matter from nylon ribbon and control interior, dust lightly with a fine soft brush.

7B. HUMIDISTAT INSTALLATION INSTRUCTIONS FOR HUMIDITRAC™ HUMIDIFIER CONTROL

For detailed humidifier control installation and wiring instructions, see Form IM-AHC-01 included with humidifier.

- 8.** 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 the furnace. If furnace accessory terminals are 120 VAC, outlet box can be wired from this location. See manufacturer's recommendations for wiring. Do not use extension cords.



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

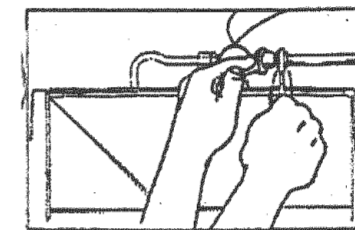
TO INSTALL ON COPPER OR PLASTIC PIPE

- Place rubber gasket in center of hole in top saddle clamp. Place top and bottom saddle clamp around water pipe. Using bolts, tighten saddle clamps evenly - clamps should be parallel - **DO NOT OVER-TIGHTEN.**
- Screw valve body into opening in top saddle clamp and tighten.
- Tighten gland nut onto valve body.

TO INSTALL ON STEEL OR BRASS PIPE

- Turn off water.
- Drill 3/16" diameter hole into pipe where saddle valve will be placed.
- Place rubber gasket in center of hole in top saddle clamp.
- Place top saddle clamp assembly over hole so that lance fits into hole.
- Place top and bottom saddle clamp around water pipe.
- Screw valve body into opening in top saddle clamp and tighten.

NOTE: For pipe over 1" O.D., use 1/4"-20, 1-3/4" long bolts.

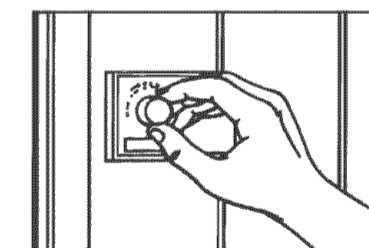


- 10.** Connect 1/4" O.D. copper tubing (not furnished) from the saddle valve to the inlet side of the solenoid valve. **DOUBLE WRENCH TO PREVENT LEAKING AND VALVE BREAKAGE!**

Turn on water (Steel or brass pipe).

You are now ready to pierce the pipe (copper or plastic pipe). Turn handle until spindle is firmly seated into valve body. The water pipe is now fully pierced. Turning spindle in shuts valve off.

- 11.** Connect 1/2" I.D. plastic hose (not furnished) from unit to floor drain. **Be sure drain hose has continuous slope. Use caution if hose clamp is used to not over tighten and crack drain spud.** **NOTE: Do not sweat or directly attach metal drain line to fitting. Do not use solvent type adhesive when connecting plastic drain hose, since damage to fitting could result.**



- 12.** Open saddle valve completely and turn on furnace. Turn up humidifier to operate unit. Allow unit to run for five minutes or until water is observed coming out of drain line. Check water connections to see if unit is water tight. Reset humidistat to recommended level.