

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.

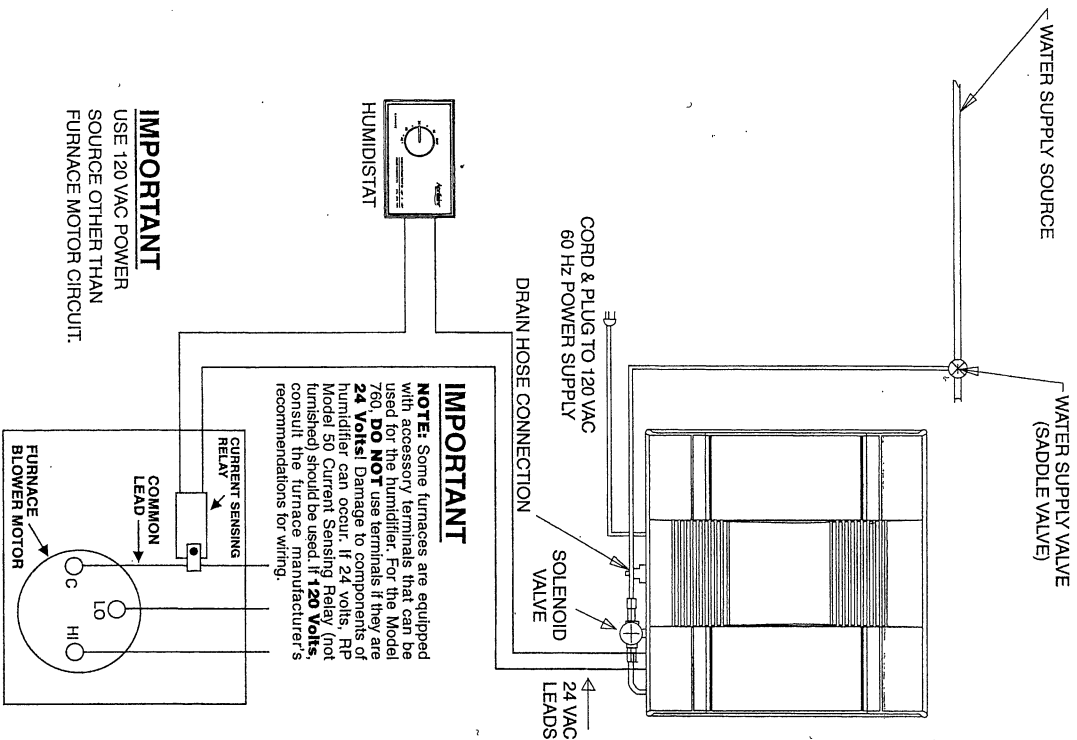
Aprilaire® HUMIDIFIER MODEL 760

WARNING

- 120 volts may cause serious injury from electrical shock. Disconnect electrical power to the furnace before starting installation.
- Sharp edges may cause serious injury from cuts. Use care when making plenum openings and handling ductwork.
- 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

- Do not install unit where freezing temperatures could occur.
- Do not install unit on the furnace jacket.
- Do not install unit on a plenum face where the blanked off ends of the cooling coil restrict air movement through the humidifier.
- Do not set humidity higher than recommended. Condensation damage may result.
- Do not connect the Model 760 power cord to multi-speed furnace blower motors or blower motors other than 120 VAC. Premature component failure may result. Use Research Products Corporation Model 50 Current Sensing Relay.
- 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.
- Do not install unit on the supply plenum where static pressure exceeds 0.4" W.C.
- Do not install unit where water pressure exceeds 125 psi. Leakage may result. Follow codes in effect concerning pressure reduction.

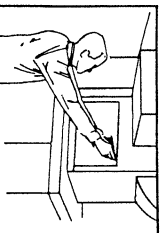


IMPORTANT

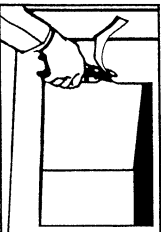
NOTE: Some furnaces are equipped with accessory terminals that can be used for the humidifier. For the Model 760, **DO NOT** use terminals if they are **24 Volts!** Damage to components of humidifier can occur. If 24 volts, RP Model 50 Current Sensing Relay (not furnished) should be used. If **120 Volts**, consult the furnace manufacturer's recommendations for wiring.

IMPORTANT

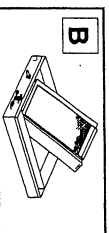
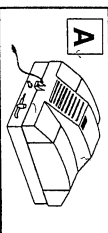
USE 120 VAC POWER SOURCE OTHER THAN FURNACE MOTOR CIRCUIT.



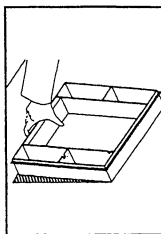
- 1 Draw a level line on furnace supply plenum at least 1-1/2" above furnace jacket to allow for water supply line and drain hose. Trace template in position and trace around entire outside edges.



- 2 Remove template and accurately cut the plenum opening accordingly, being careful to avoid injury from sharp edges.

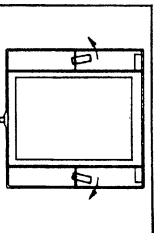


- 3A Unlatch humidifier cover assembly from base assembly at the bottom of the cover, lift and set aside.
- 3B Pull out the Water Panel® Evaporator and scale control insert by grasping at the top and tipping out.

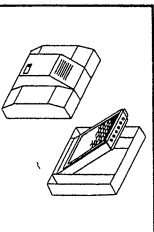


- 4 Position the top two plastic hooks along the top edge of the plenum opening. Push base up to engage these two hooks and sheet metal along the top edge of the opening. Push base in and slide down so that the bottom four hooks engage the sheet metal at the bottom edge of the opening. Secure base to opening using top three screws. An additional hole is provided at the bottom for securing the base to the plenum.

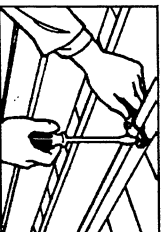
- 7 Locate and install the humidistat by following the instructions shown in step #7A. **DISCONNECT ELECTRICAL POWER TO FURNACE BEFORE PROCEEDING TO STEP #7A!**



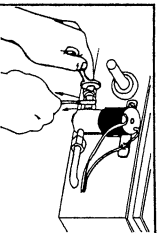
- 5 While pressing the base against the plenum, reach through the center opening and turn left and right, sliding latches down to secure the plenum onto the base.



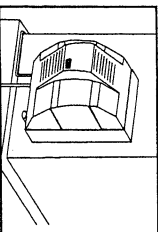
- 6 Reinstall the evaporative assembly complete with Water Panel Evaporator into the base assembly. Push the evaporative assembly in at the top between the retaining flanges that hold the assembly in place in a vertical position. Reinstall cover assembly by hooking at the top of base assembly and latching at the bottom.



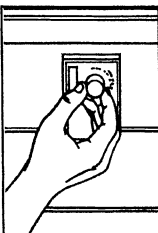
- 8 Wire an electric outlet box to power source other than furnace fan motor circuit. Outlet box can be powered off of the 120 VAC line before it enters furnace. If furnace accessory terminals are 120 VAC, outlet box can be wired from this location. See manufacturer's recommendations for wiring. Do not use extension cords.
- 9 Tap into water supply line with the saddle valve furnished. 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 capacities. **NOTE: The saddle valve is designed to be fully opened or closed. Do not use it to regulate water flow.**



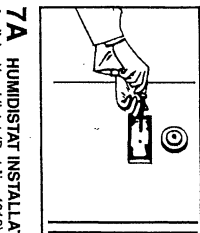
- 10 Connect tubing from the saddle valve to the inlet side of the solenoid valve using 1/4" O.D. copper tubing (not furnished). **DOUBLE WRENCH TO PREVENT LEAKING!**



- 11 Connect 1/2" I.D. plastic hose (not furnished) from unit to floor drain. Be sure floor drain hose has continuous slope. **NOTE: Do not sweat or directly attach metal drain line to fitting. Do not use solvent type adhesives when connecting plastic drain hose, since damage to fitting could result.**



- 12 Open saddle valve and turn on furnace. Turn up humidistat 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.



- 7A **HUMIDISTAT INSTALLATION INSTRUCTIONS**
Aprilaire Humidistat (Part No. 4016) is designed for low voltage service to control humidification equipment. An increase in relative humidity expands the nylon ribbon which opens the control switch to stop operation of the humidifier. A decrease in relative humidity reverses the process and closes the control switch.

1. DO NOT ATTEMPT TO REPAIR OR RECALIBRATE CONTROL. Controls requiring service should be returned to RESEARCH PRODUCTS CORPORATION, Poynton, WI 53595.
2. Control must be installed using 24 volts!
3. Make sure no bare wires are exposed or insulation damaged. Insulation on wire should extend to head of binding screws.
4. Make sure all splices are mechanically and electrically secure.
5. To remove dirt or other foreign matter from nylon ribbon and control motor, dust lightly with a fine, soft brush.

GENERAL INSTRUCTIONS

1. Do not install where operation might be affected by lamps, sunlight, fireplace registers, radiators, concealed air ducts and pipes, or room occupants.
2. The basic rules for location of thermostats also apply to humidistats.

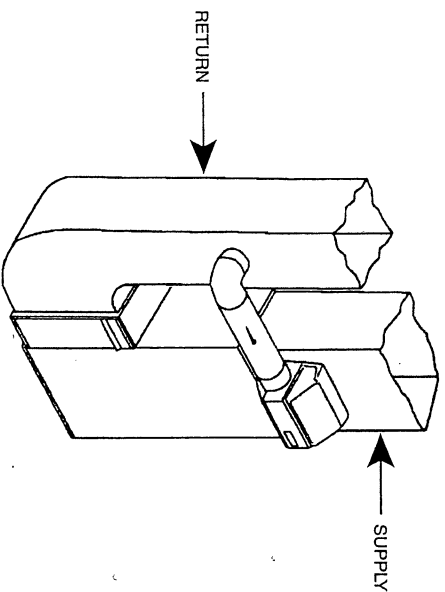
IMPORTANT!

Be sure warranty card and owner's manual containing instructions explaining operation of unit is given to owner in order to save unnecessary calls. Warranty card should be filled out and sent to factory immediately following installation. Warranty is void unless unit is installed by qualified heating and air conditioning contractor due to possible misapplication of product.

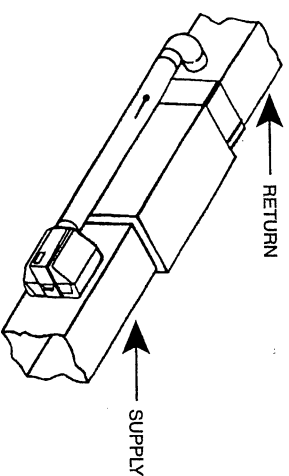
TEMPLATE MUST BE LEVEL

OPTIONAL INSTALLATIONS

OR WHERE A/C COIL
RESTRICTS LOCATION

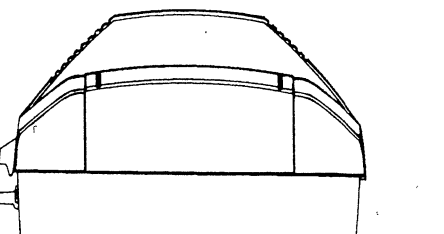


For best results when there is insufficient space on the warm air plenum for the Model 760, the unit can be installed on the return duct provided the unit is supplied with hot water service. As an alternative, the Aprilaire Model 560 humidifier can be installed on either the supply or return side of the furnace.

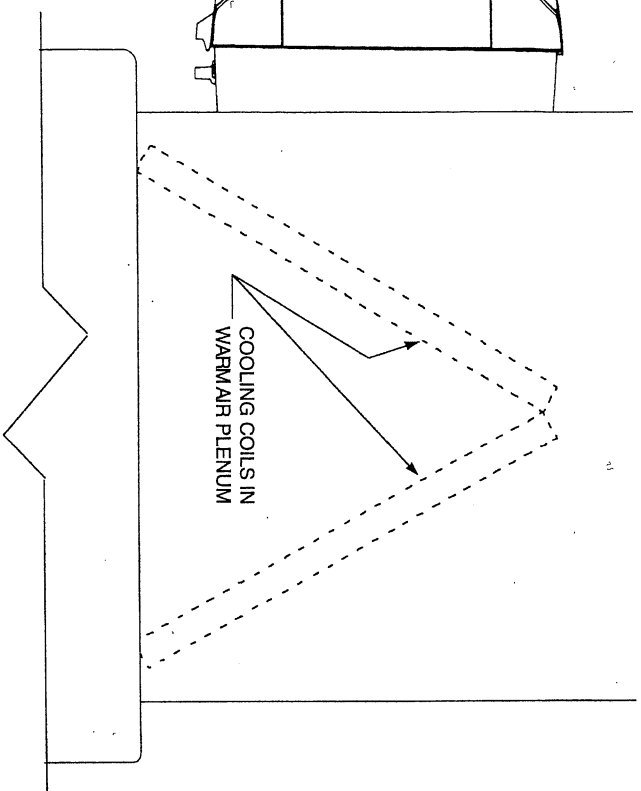


For best results when using Aprilaire humidifiers on forced warm air systems with horizontal air flow, use the Aprilaire Model 560 humidifier as shown. NOTE: The Aprilaire Model 560 can be installed on either the supply or return side of the furnace.

WHEN INSTALLING ANY APRILAIRE HUMIDIFIER ON A HEAT PUMP SYSTEM, TAP OFF THE SERVICE HOT WATER LINE. THE HEATED WATER SUPPLEMENTS THE REDUCED SUPPLY AIR TEMPERATURE AS ADDED HEAT FOR EVAPORATION.



APRILAIRE TO BE INSTALLED
AS SHOWN IN RELATION TO
COOLING COILS.



COOLING COILS IN
WARM AIR PLENUM

COOLING COIL

Suggested installation of the Aprilaire
Model 760 humidifier on plenum with
cooling coils.



RESEARCH PRODUCTS CORPORATION

P.O. BOX 1467 • MADISON, WI 53701-1467

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