

Installation Instructions & Mounting Template

COMPLETELY READ: PRE-INSTALLATION SET UP AND CHECKOUT PROCEDURE FOR BYPASS HUMIDIFIER AND INSTALLATION/TEMPLATE INSTRUCTIONS

POWER HUMIDIFIER MODEL *HUMD500A

(AUTOMATIC HUMIDIFIER CONTROL INCLUDED)

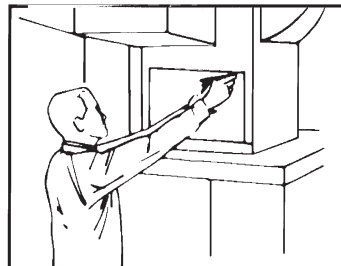
*May Be "A" or "T"

WARNING

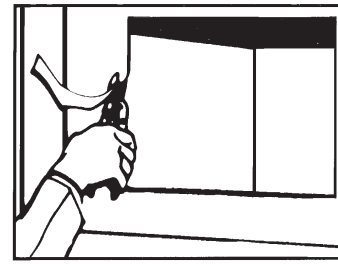
- 120 Volts may cause serious injury from electrical shock. Disconnect electrical power to the furnace before starting installation. Failure to do so could result in serious injury from electrical shock.
- Sharp edges may cause serious injury from cuts. Use care when making plenum openings and handling ductwork. Use personal protective equipment when installing or servicing HVAC equipment.
- 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.
- 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.

CAUTION

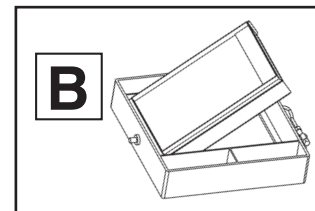
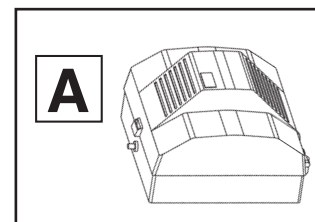
- Do not install humidifier in attic or crawl areas.
- Do not install humidifier where freezing temperatures could occur.
- Do not install humidifier on the supply plenum where static pressure exceeds 0.3" W.C.
- Do not install humidifier where water pressure exceeds 125 psi, since damage to the unit may result. Follow codes in effect concerning pressure reduction.
- Do not install humidifier to the furnace cabinet.
- Do not install humidifier on a plenum face where the blanked off ends of the cooling coil restrict air movement through the humidifier.
- Do not set humidifier control higher than recommended. Condensation damage may result.
- Do not set humidifier control up to recommended levels if there is condensation on the inside windows of any unheated living space. Condensation damage may result.
- Do not mount Automatic Humidifier Control on counterflow furnaces. High temperatures may occur when blower turns off.



1 Draw a level line on the furnace supply plenum at least 1-1/2" above the furnace or coil cabinet to provide clearance for the drain hose. Tape the installation template to the plenum and trace the outline opening on the plenum.

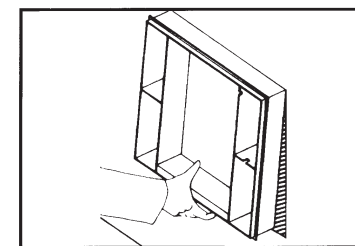


2 Remove the template and accurately cut the plenum opening, being careful to avoid injury from sharp edges.

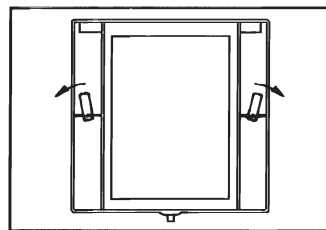


3A Unlatch the humidifier cover assembly from the base assembly at the bottom of the cover, lift the cover off and set aside.

3B Pull out the Humidifier Pad and Scale Control Insert by grasping at the top of the assembly and lift out.



4 Position the top two plastic hooks along the top edge of the plenum opening. Push the base up to engage these two hooks and sheet metal along the top edge of the opening. Push the base in and slide it down so the bottom four hooks engage the sheet metal at the bottom edge of the opening. Secure the base to the opening using the top three screw holes and the bottom three screw holes.



WARNING

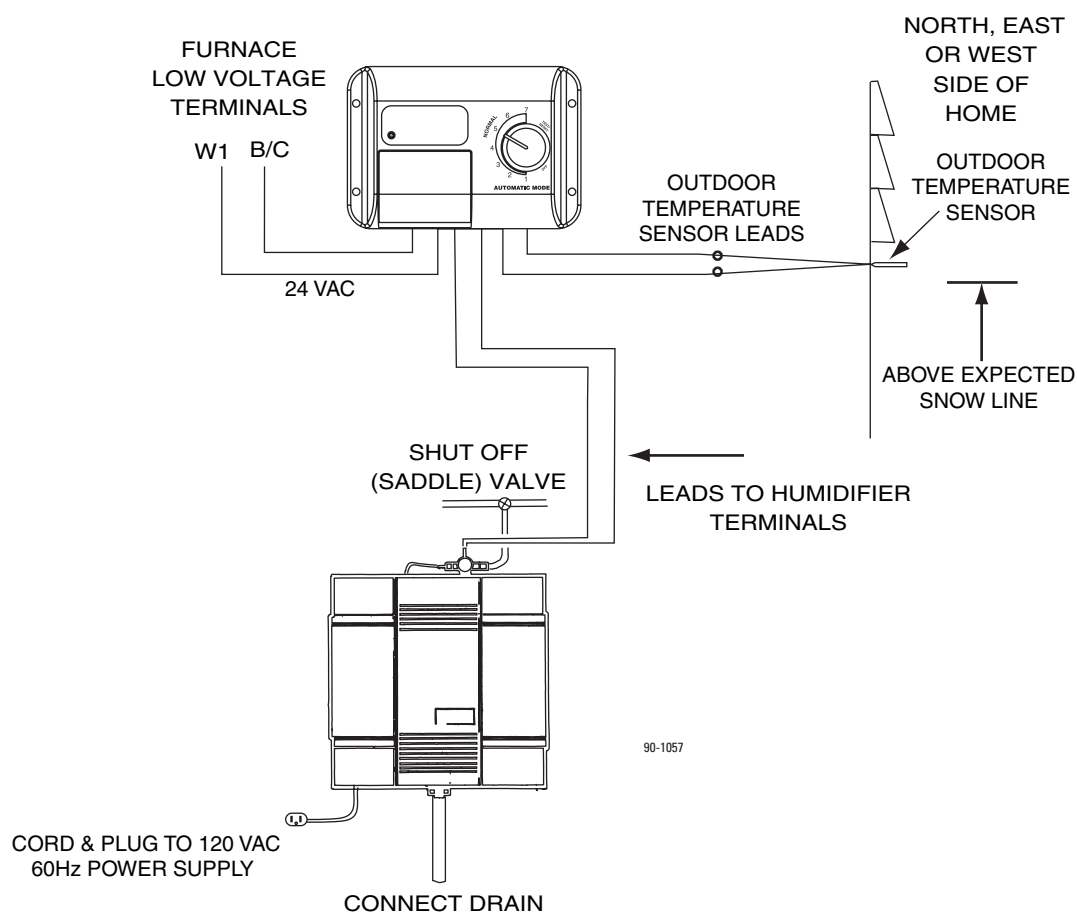
Sharp edges may cause cuts! Use care when securing humidifier base against plenum.

5 While pressing the humidifier base against the plenum, reach through the center opening and carefully turn the left and right swing clips down to further secure the base to the plenum.

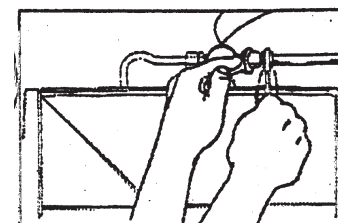
6 Reinstall the humidifier pad and scale control insert assembly into the humidifier base. Push the humidifier pad and scale control insert assembly in at the top between the retaining ribs that hold the assembly in place in a vertical position. Reinstall the cover assembly by hooking the cover over the top of the base assembly and latching at the bottom.

7 Install the Automatic Humidifier Control in the return air duct using the automatic humidifier installation instructions enclosed.

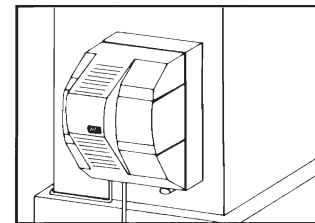
8 Wire an electric outlet box to a power source other than the furnace fan motor circuit. The outlet box can be powered off of the 120VAC line before it enters the furnace. 120 VAC power can also be supplied from the HUM accessory terminals included on most furnace models. If available, see HUM accessory terminal hook up on furnace wiring diagram. Do not use extension cords. **NOTE: For furnaces not equipped with 120VAC humidifier accessory terminals, use Current Sensing Relay, model BAYRLY10ASENSA to energize the humidifier control circuit in non-variable speed blower indoor products.**



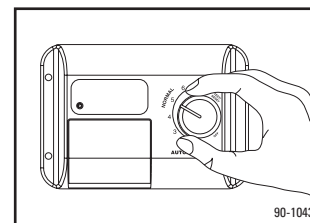
NOTE: THE INTEGRATED FURNACE CONTROL HAS OPTIONAL ACCESSORY CONNECTIONS FOR THE HUMIDIFIER. SEE THE FURNACE INSTALLER'S GUIDE FOR THE SCHEMATIC DIAGRAM OF THE FURNACE AND THE FIELD WIRING DIAGRAM FOR THE OPTIONAL ACCESSORIES.



9 Tap into the top or side (not bottom) of the water supply line with the saddle valve (furnished). The humidifier will function with cold, hot, softened or unsoftened potable 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 and secure 1/2" I.D. plastic hose (not furnished) from unit to a floor drain, wet sanitary trap or condensate drain. Be sure drain hose has continuous slope downward. It is the installer's responsibility to insure drain is of proper size and is unobstructed. Do not connect humidifier drain to the drain from condensing furnace. **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.**

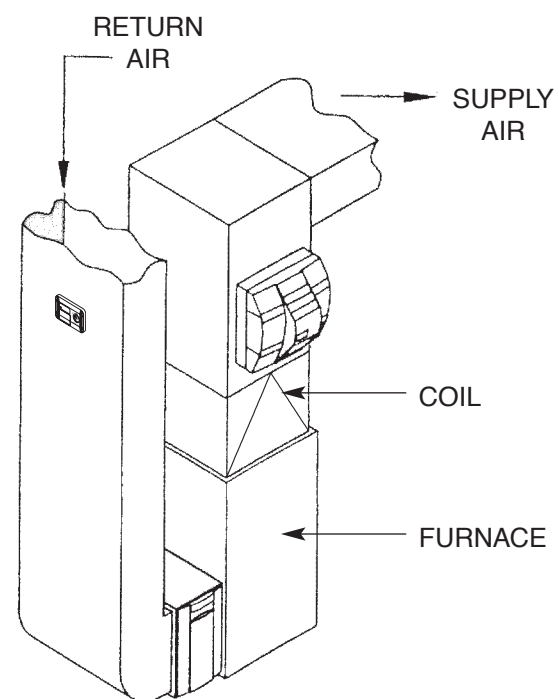
IMPORTANT

Installing Dealer: Be sure to give the Use and Care Manual included with the humidifier to the homeowner. Explain the Use and Care Manual contents including operating instructions, RECOMMENDED MAINTENANCE, and warranty information.

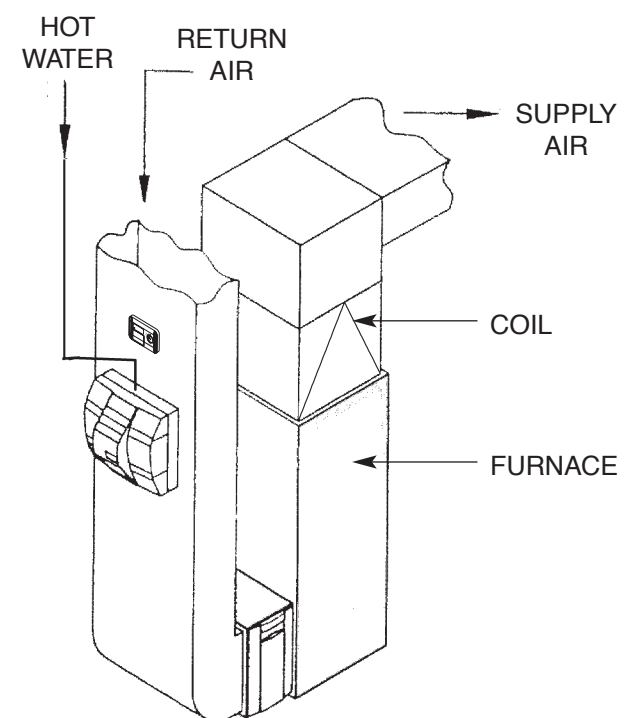
TEMPLATE MUST BE LEVEL

↑ TOP ↑

INSTALLATION OPTIONS



UPFLOW FURNANCE



UPFLOW FURNANCE

NOTES:

- 1) The Power Humidifier is not suited for use on forced warm air systems with horizontal airflow. For such applications use a large bypass humidifier.
- 2) If fresh air is piped directly into the return air duct it must be installed downstream of humidifier.