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APRILAIRE 600M Owner's Manual

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READ COMPLETE SAFETY INSTRUCTIONS AND INSTALLATION TEMPLATE BEFORE

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 this product. This product must be installed in compliance with all local, state and federal codes.

Aprilaire® AUTOMATIC HUMIDIFIER MODEL 600

⚠ WARNING

- 1. ELECTRICAL SHOCK HAZARD.** Disconnect electrical power to the furnace 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 or bypass connection on the furnace jacket.
3. Do not install humidifier or bypass connection 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 Model 600 transformer to blower motor wiring. Premature component failure may result.
6. When installing Humidifier Control on 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 on systems with greater than 0.4 in. wg pressure differential between supply and return plenums.

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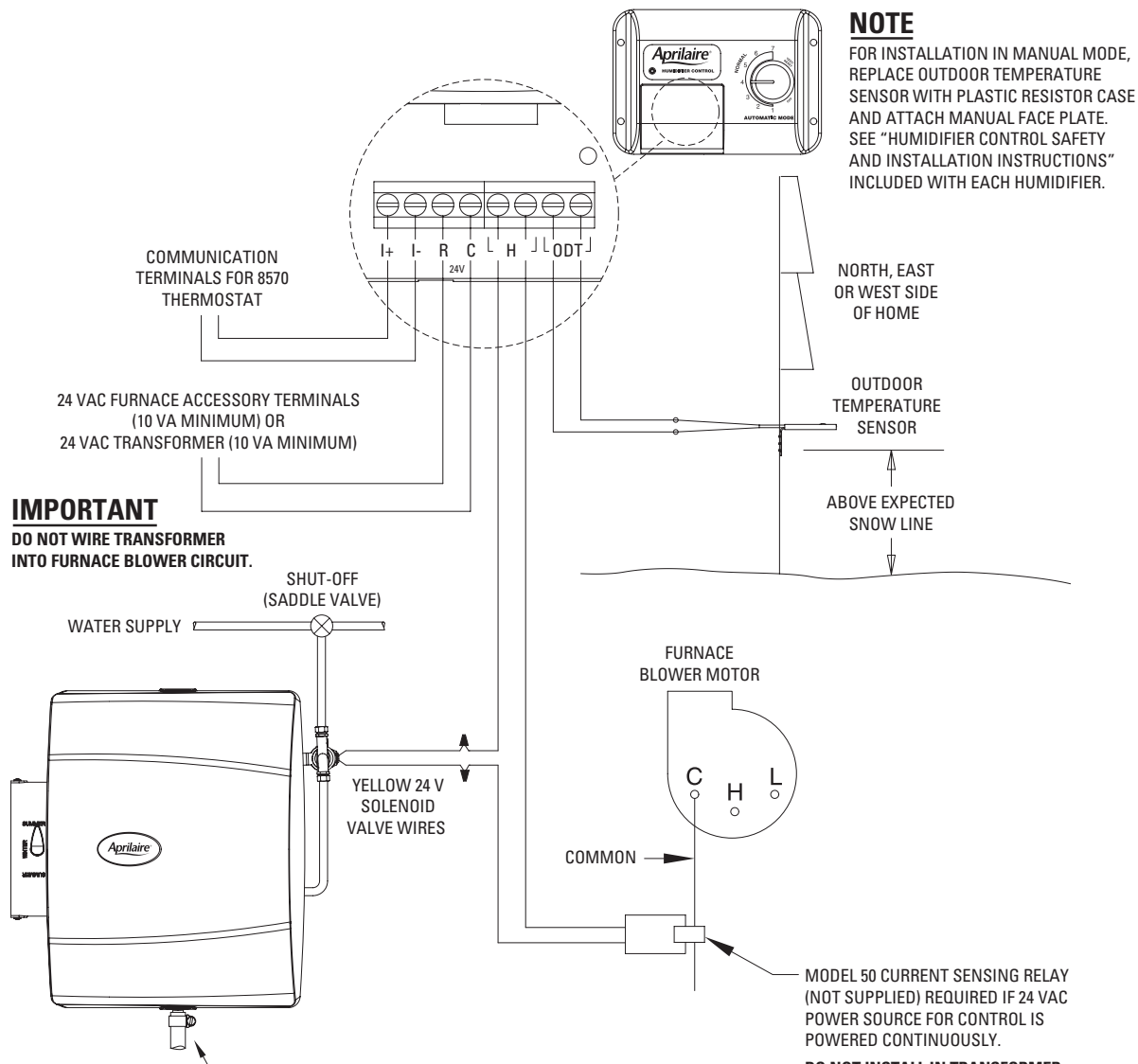
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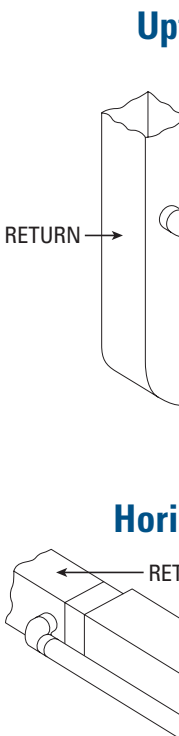
WIRING DIAGRAM

(SEE STEP 8 ON BACK AND "HUMIDIFIER CONTROL SAFETY AND INSTALLATION INSTRUCTIONS" FOR DETAILED WIRING INSTRUCTIONS)



INSTALLATION OPT

The Model 600 Aprilaire... the supply or return... handling system and... installation with right ha... connections. The hu... serviceability must be... the best location for... examples of many



READ COMPLETE SAFETY INSTRUCTIONS AND INSTALLATION TEMPLATE BEFORE

FURNISHED ITEMS
Built-in bypass damper
24 VAC Transformer
Automatic Humidifier Control
Automatic Humidifier Control Installation Sheet
Saddle valve
Humidifier Installation Template
ITEMS NOT FURNISHED
Mounting screws (sheet metal screws)
Water supply line (1/4" copper)
Drain line (1/2" I.D. hose)
Low voltage wire
Bypass ductwork
Model 50 Current Sensing Relay (if required)

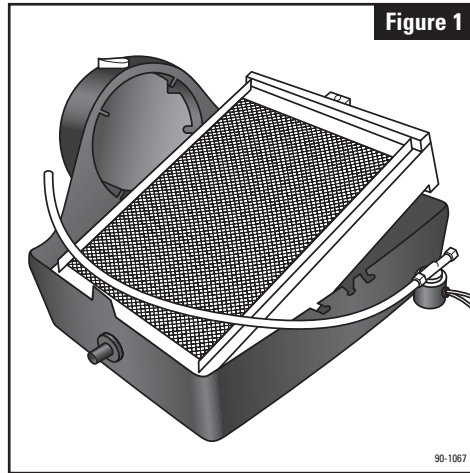


Figure 1

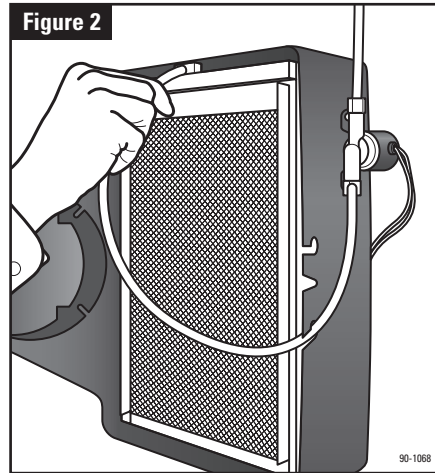


Figure 2

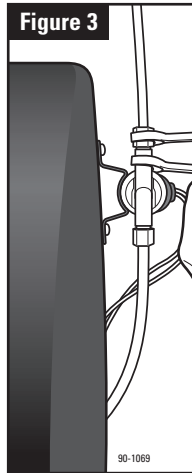


Figure 3

1. Remove front cover by pressing center tabs on top and bottom of the cover (1) and base (2). Pull feed tube (3) out of the water distribution tray (4). Tip the Water Panel® Evaporator assembly forward and lift it out of the humidifier. (See Figure 1)
2. The humidifier comes assembled for left side discharge. If converting to right side discharge, the base can be rotated so round collar is facing to the right. Swap the location of the hole plug (10) and drain spud (9) if using a right side discharge. To remove the cap, push and twist from inside the housing while lifting the cap up slightly on the outside. To remove the drain spud, twist and push from the outside of the base.
3. Using a level, position this template at least 3 inches above the furnace housing or cooling coil, if applicable, for clearance of the drain line. Trace around template edges. Remove the template and accurately cut the plenum opening 9 7/8" x 12 5/8", being careful to avoid injury from sharp edges.

4. Place the humidifier into the plenum opening, install six sheet metal mounting screws (not furnished) at the top and sides of the humidifier interior.
5. Install a 6" collar in a convenient location on the opposite plenum. Attach a 90° elbow and measure the length of 6" round duct required to make the connection. The design of the humidifier collar provides a solid connection with the bypass duct through the use of inside support ribs and pre-formed holes for sheet metal screws. Slip the duct inside the collar of the humidifier, up to the support ribs. Using the pre-formed holes at the top and bottom of the humidifier collar, secure the duct to the humidifier collar with two sheet metal mounting screws (not furnished). Support bypass ducts longer than 4 feet to prevent sagging.
6. Reinstall the Water Panel® Evaporator assembly back into the base, with the bottom of the scale control insert (6) sitting firmly in the inside of the drain spud (9). Push the

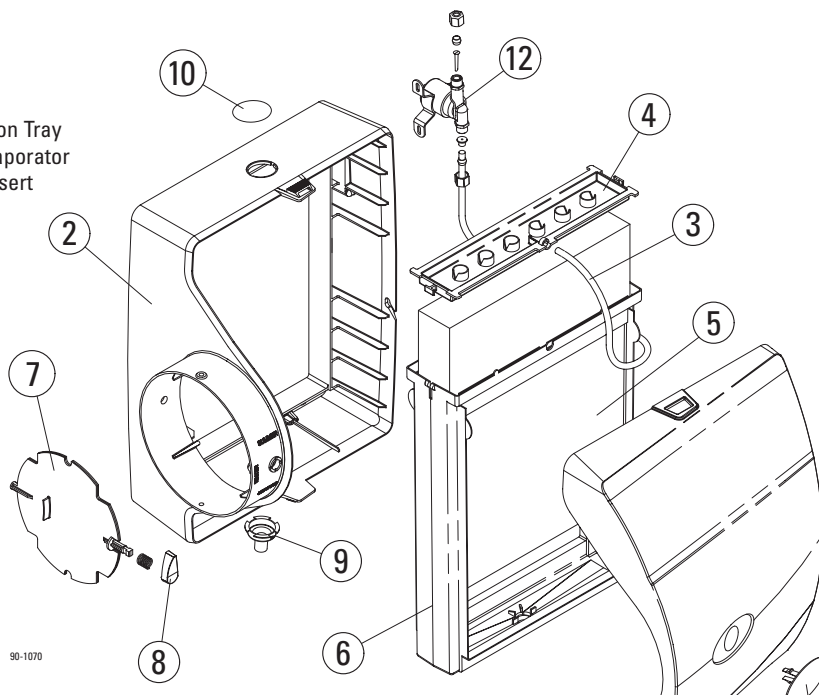
- feed tube back into the water distribution tray. (See Figure 2) Put the front cover back on. If the nameplate (11) is upside down, remove it by gently squeezing the tabs of the nameplate from inside the cover and pushing out. Rotate the nameplate so it is right side up, and snap back into place. Turn damper handle (8) to the open position "WINTER" for the heating season, or closed position "SUMMER" for the cooling season.
7. Install the Aprilaire Humidifier Control in the return duct using the installation instructions enclosed (see Wiring Diagram, opposite side). For detailed installation and wiring instructions, see "Humidifier Control Safety and Installation Instructions" included with the humidifier
8. The Automatic Humidifier Control must be powered by a 24 VAC power source connected to the "R" and "C" terminals on the Control. The 24 VAC humidifier solenoid valve receives power through the Control. Connect the yellow wires to the "H" terminals

- on the Control. **Do not connect yellow wires to "ACC" or "HUM" terminals on furnace or damage to the humidifier could result.**
- In order for the humidifier to turn on, the furnace blower must be operating and the control must be calling for humidity. The interface between the Model 600 humidifier and the furnace to detect blower operation can be accomplished several different ways:
 - A. If the Control is powered directly from 24 VAC "ACC" or "HUM" terminals on the furnace, which are activated only during furnace blower operation or a heat call, then the yellow wires from the humidifier can be connected directly to the "H" terminals on the Control.
 - B. If the Control is powered by a transformer connected to 120 VAC "ACC" or "HUM" terminals on the furnace, which are activated only during furnace blower operation or a heat call, then the yellow wires from the humidifier can be connected directly to the "H" terminals on the Control.
 - C. If the Control is powered from a continuous 24 VAC source, then a Model 50 Current Sensing Relay (not included) must be installed in the humidifier circuit. (Yellow wires connected to "H" terminals on Control.)

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NOTE: The to be fully c use it to req
10. Connect valve to the valve using (not furnis TO PREVEN (See Figure
11. Drain s accept 1/2" furnished). spud to floo clamp is us drain spud drain line h NOTE: Do n attach meta not use solv connecting damage to
12. Open s and turn on humidifier o will turn on until water of the drain humidifier a watertight. sure that al function pro humidificati section in th Safety and Set humidif recommend

PARTS LIST

1. Front Cover
2. Base
3. Feed Tube
4. Water Distribution Tray
5. Water Panel Evaporator
6. Scale Control Insert
7. Integral Damper
8. Damper Handle
9. Drain Spud
10. Hole Plug
11. Nameplate
12. Solenoid Valve



90-1070

Do not wire transformer into furnace blower circuit. The transformer can be powered from the 120 VAC line before it enters the furnace.

9. Tap into a 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**

IMPORTANT! Be sure owner's

instructions for operation and warranty inf
owner in order to avoid unnecessary calls. W
humidifier is installed by qualified heating

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