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 electrical shock. Proper humidification and humidity control also requires that the home be constructed in accordance with local codes and good building practices.

RECOMMENDED WIRING DIAGRAMS

(SEE STEP 6 ON BACK AND “HUMIDIFIER CONTROL SAFETY AND INSTALLATION INSTRUCTIONS” FOR DETAILED WIRING INSTRUCTIONS)

Model 700 Digital Humidifier Control

[Diagram showing wiring connections for Model 700]

Model 700M Manual Control

[Diagram showing wiring connections for Model 700M]

SPECIFICATIONS

HUMIDIFIER DIMENSIONS
- Width: 15 3/4" (with supply plenum)
- Height: 18" (including solenoid valve and drain spud)
- Depth: 10 1/2"

PLENUM OPENING
- 14 1/4" W x 14 1/8" H

WATER FEED RATE
- 6 gph

ELECTRICAL DATA
- 120 VAC-60 Hz, 0.8 AMP

INSTALLATION OPTIONS

Typical Installations

Alternate Installation

Orientation of Aprilaire Model 700 and 700M to Cooling Coils

NOTE

When installing the Aprilaire humidifier with the Aprilaire Digital Humidifier Control or on a heat pump system, use hot water. The heated water supplements the reduced supply air temperature as added heat for evaporation.
1. Detach the cover assembly by lifting the latch at the bottom. Remove the Water Panel® evaporator assembly by grasping at top and tipping out. See Figure 1.

2. Position template on supply plenum. Make sure template is level. Allow clearance for drain line and for servicing. See “Installation Options” on opposite side for position relative to cooling coil.

3. Position base (2) in duct opening top-first so hooks engage sheet metal at top. See Figure 2. Insert bottom of base and slide down to engage hooks at bottom.


5. Insert Water Panel Evaporator assembly into base. Make sure bottom of scale control insert (5) is over drain opening. Snap top of evaporator assembly into base.

6. Control installation and wiring. Disconnect electrical power to furnace before wiring control. In order for humidifier to operate, furnace must be on and RH must be below set-point of control. Wiring diagrams illustrate recommended method of detecting furnace operation.

7. Humidifier will function with cold, hot, softened or unsoftened water. Hot water (140°F max) is strongly recommended to provide maximum evaporative capacity. Saddle valve provided may be used to tap into water supply. See installation instructions on saddle valve package. Saddle valve is designed to be fully opened or closed. Do not use to regulate flow.

8. Run 1/4” copper tubing from saddle valve to solenoid valve. DOUBLE-WRENCH TO PREVENT LEAKING. See Figure 4.

9. INSTALL DRAIN IN ACCORDANCE WITH LOCAL CODES. Run 1/2” I.D. hose from drain spud to floor drain. Make sure drain has constant downward slope and is not kinked. Do not overtighten hose clamp onto drain spud. Do not use solvent adhesive on drain spud.

10. Check humidifier operation. Open saddle valve and turn control to highest setting. Turn on furnace. Allow humidifier to run until water flows from drain. Make sure all electrical connections are secure and all plumbing connections are watertight. Set control to proper setting.

NOTE: BEFORE LEAVING THE JOB SITE, MAKE SURE:
1. Saddle valve is fully open.
2. All plumbing connections are watertight.
3. Humidifier functions properly.

IMPORTANT! Be sure owner’s manual containing instructions for operation and warranty information is given to owner in order to avoid unnecessary calls. Warranty is void unless humidifier is installed by qualified heating and air conditioning contractor due to possible misapplication of product.