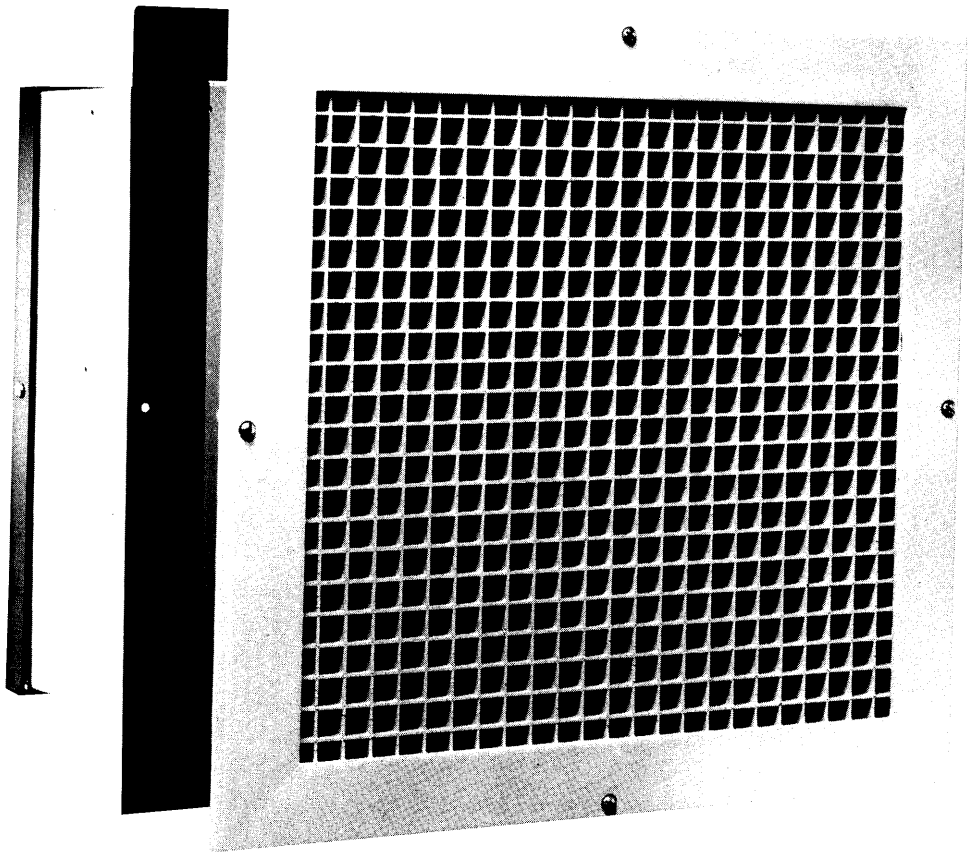
Installation Manual

Aprilaire®

HUMIDIFIER

The Best Cure For Dryness®

Model 360



Warnings

1. Disconnect electrical power before doing any 120 VAC wiring. Failure to do so could result in serious injury from electrical shock.
2. The humidifier will be hooked up to hot water. Hot water temperatures in excess of 125°F may cause burns.
3. If the humidifier is installed in a room that has any gas or oil fired equipment or fumes, the humidifier must have supply and return ductwork.
4. Avoid hazards and obstructions such as electrical wires and plumbing when cutting into walls for placement of supply and return grills.
5. To avoid head injuries, mount humidifier as high as possible out of high traffic areas.

Cautions

1. Check all state and local codes regarding electrical wiring and the air distribution system.
2. The humidifier and duct system must be installed on an inside wall with air temperature at 65°F or above. If not, condensation damage may result.
3. Do not use water in excess of 140°F at humidifier or damage to the humidifier may result.
4. Use 1/2" ID or large plastic hose to carry flushing water from humidifier to drain.
5. Do not use solvent type adhesives when connecting the plastic drain hose to the plastic drain fitting. Damage to the drain fitting will result. Be sure the drain line has an adequate slope to the drain.

Location

Locate the humidifier near a drain and a hot water supply. Allow adequate space for humidifier maintenance and service.

Mounting

(See Figures 1, 2, 3 and 4)

Use the plastic inlet wall frame as a template to determine the exact position of the humidifier.

1. Cut a 14" wide x 13" high opening through the wall centered between the vertical studs, as shown in Figure 1.
2. Secure the inlet wall frame with narrow flange into the wall opening and the wider flange with the mounting holes on the room side to the wall with the 1-1/2" long screws provided. This must be square and level and part of the inlet wall frame should rest on top of the sheet rock or paneling for additional support.
3. Secure the outlet grille frame with the screws provided. It must line up with the inlet wall frame so the housing will fit squarely into the wall.
4. Slide the housing into the inlet wall frame so the unit butts up tightly against the outlet grille frame. Check for level and squareness. To secure housing to inlet mount frame, drill at least two 1/8" holes as shown in Figure 2 and secure with screws provided.

Air Distribution

DO NOT install the Model No. 360 in a confined room that has gas or oil-fired vented equipment of fumes.

Where doors are normally closed, the door should have a 1/2" minimum undercut or have a grille installed for proper air circulation. The unit will move approximately 150 cfm of air through the wall.

Plumbing

Maximum water temperature to the unit should be 140°F. It will be necessary to blend hot and cold water whenever water temperature exceeds 140°F. (Tankless domestic water systems may have water temperatures in excess of 140°F.) Heat for evaporation is obtained from service hot water.

Some water heaters do not recover as rapidly as others; therefore, be sure that the water heater has sufficient capacity and recovery rate to supply a minimum of 6 gallons per hour of 140°F hot water to the humidifier.

Tap off the hot water line at the water heater using the saddle valve provided and 1/4" copper tubing (not furnished). The 1/4"copper tubing is connected to the inlet fitting under the humidifier. Double wrench when making the connection.

FIGURE 1

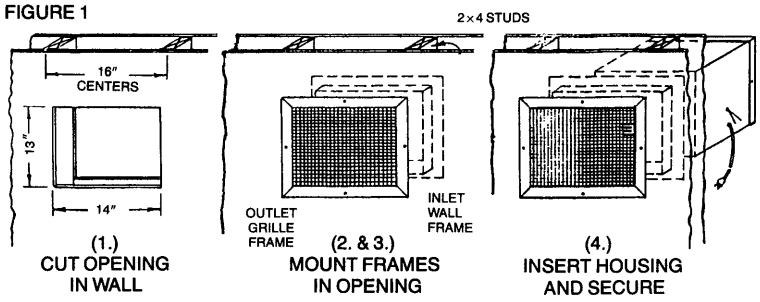


FIGURE 2

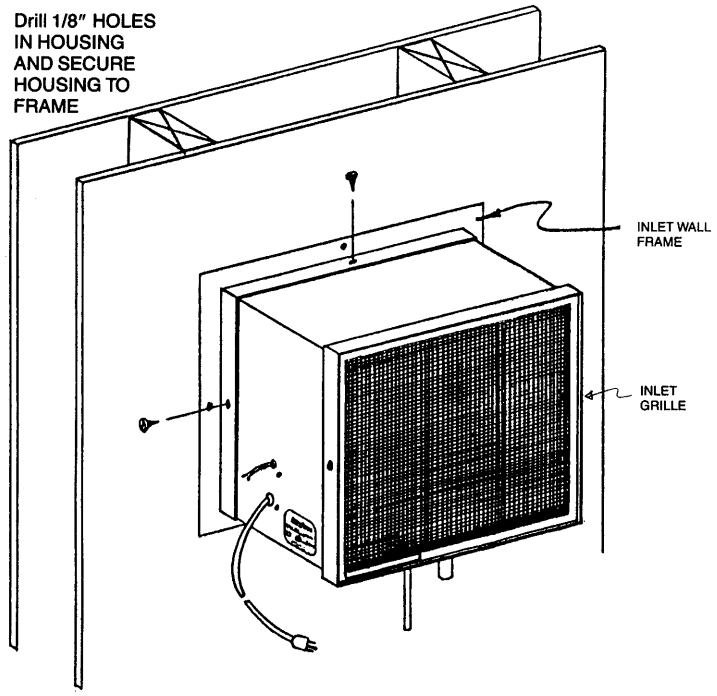
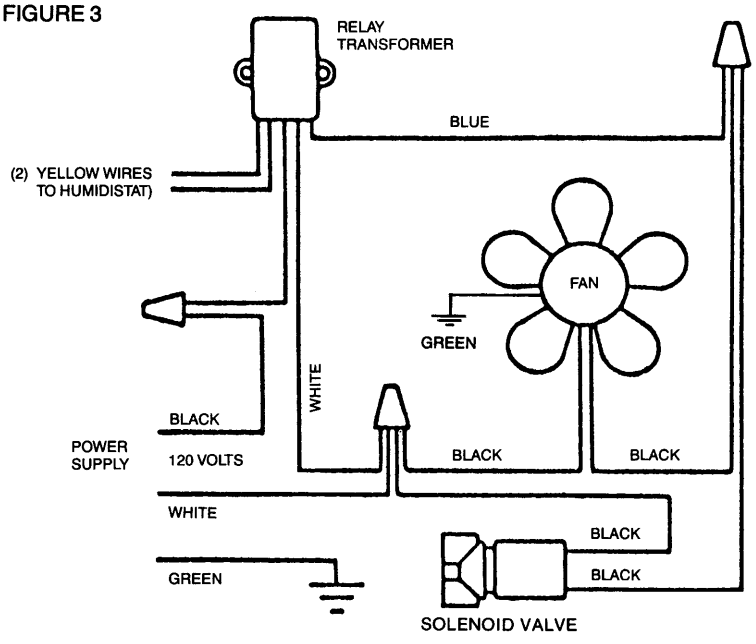


FIGURE 3



Wiring (See Figure 3)

1. Power

The Model 360 is prewired internally and equipped with a 120 VAC cord and plug.

2. Humidity Control

Locate the Aprilaire Humidistat on an easily accessible inside wall in the living area at least 5' away from the discharge grille. ***Be sure it's installed in an area not closed off from the grille.***

GENERAL INSTRUCTIONS FOR HUMIDISTAT

1. DO NOT ATTEMPT TO RECALIBRATE OR REPAIR CONTROL. Controls requiring service should be returned to RESEARCH PRODUCTS CORPORATION, Poynette, WI 53955.
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 terminal screws.
4. Make sure all splices are mechanically and electrically secure.
5. To remove dirt or other foreign matter from nylon ribbon and control interior, dust lightly with a fine, soft brush.

HUMIDISTAT LOCATION

1. Locate on inside wall of living area approximately 5' above floor.
2. Do not locate control in the direct path of furnace discharge air or drafts from open doors and windows.
3. Do not install where operation might be affected by lamps, sunlight, fireplace registers, radiators, concealed air ducts and pipes, or room occupants.
4. The basic rules for location of thermostats also apply to humidistats.

Check Unit Operation

1. Open saddle valve completely and plug in power cord.
2. Advance humidistat to call for humidity and check for waterflow out the drain.
3. Check all fittings and connections to make sure humidifier installation is water-tight.
4. Reduce humidistat to recommended level.

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