

AprilAire

Humidifier

INSTALLATION TEMPLATE

700 Series

Fan-Powered
Evaporative Humidifier

⚠ WARNING

- **ATTENTION INSTALLER:** Read this manual before installing. Improper installation or maintenance may cause property damage or injury. It is recommended that installation, service, and maintenance be performed by a trained service technician. This product must be installed in compliance with all local, state, and federal codes.
- **ELECTRIC SHOCK HAZARD:** 120 volts may cause serious injury from electric shock. Disconnect electrical power to the HVAC system and humidifier before starting installation or servicing. Leave power disconnected until installation/ service is completed.
- **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.
- Avoid obstructions such as plumbing or electrical wires when cutting into walls.

⚠ CAUTION

- **SHARP EDGES MAY CAUSE INJURY FROM CUTS.** Use care when cutting plenum openings and handling ductwork. Always wear glasses/goggles and gloves when installing the unit.
- Dropping may cause personal injury or equipment damage. Handle with care and follow installation instructions.

NOTICE

- FREEZING TEMPERATURES CAN BURST WATER PIPES.**
- Do not install the humidifier where freezing may occur. The water line could freeze and crack causing water damage to the home.
- CONDENSATION DAMAGE OR MOLD CAN OCCUR.**
- Position the return duct mounted humidifier control at least 6" upstream of the humidifier or fresh air intake for accurate humidity sensing.
 - Position the wall-mounted humidifier control in areas unaffected by drafts or heat sources for accurate humidity sensing.
 - Lower the humidity setting on the humidifier control if there is excess condensation on the inside of any windows in unheated living spaces.
- EQUIPMENT DAMAGE MAY OCCUR IF INSTALLATION INSTRUCTIONS ARE NOT FOLLOWED.**
- Do not install the humidifier on the furnace jacket.
 - Do not connect the power cord to multi-speed furnace blower motors or blower motors other than 120 VAC. Use AprilAire Model 50 Current Sensing Relay. Do not alter 120 VAC plug or hardwire the unit.
 - Do not install the humidifier on a plenum face at the blanked end of the cooling coil.
 - If water pressure exceeds 125 psi, reduce water pressure with devices allowed by local codes.
 - Use hot water with a temperature no greater than 140°F (60°C).
 - Do not install the humidifier on systems with external static pressure greater than 0.4" w.c.
 - When installing the humidifier control on the return duct of a downflow furnace, ensure blower continues to run after a heat call is satisfied to eliminate high temperatures from damaging the humidifier control.
 - Periodically check drain line to make sure water flows freely to drain.

SPECIFICATIONS

Humidifier Dimensions:
Width: 15-29/32"
Height (including solenoid valve and drain spud): 18"
Depth: 10-11/32"

Plenum Opening: 14-3/4"W x 14-5/16"H

Water Feed Rate: 3 gph

Electrical Data: 24 VAC, 60 Hz, 0.8 Amp

Water Panel®: Model 35

FURNISHED ITEMS

- 24 VAC transformer
- Automatic Digital Humidifier Control and Outdoor Temperature Sensor (Model 700 only)
- Manual Humidifier Control (Model 700M only)
- Humidifier Control Installation Instructions
- Saddle valve
- Humidifier Installation Template

ITEMS NOT FURNISHED

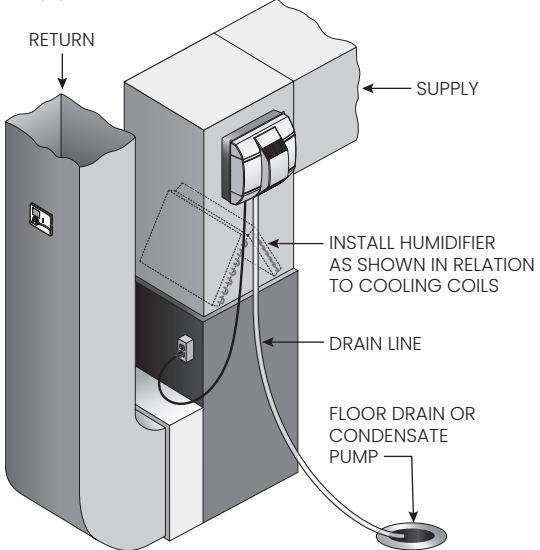
- Mounting screws (sheet metal screws)
- Water supply line (1/4" O.D. copper)
- Drain line (1/2" I.D. hose)
- Low voltage wire (18-22 gauge)
- Model 50 current sensing relay (if required)

INSTALLATION OPTIONS

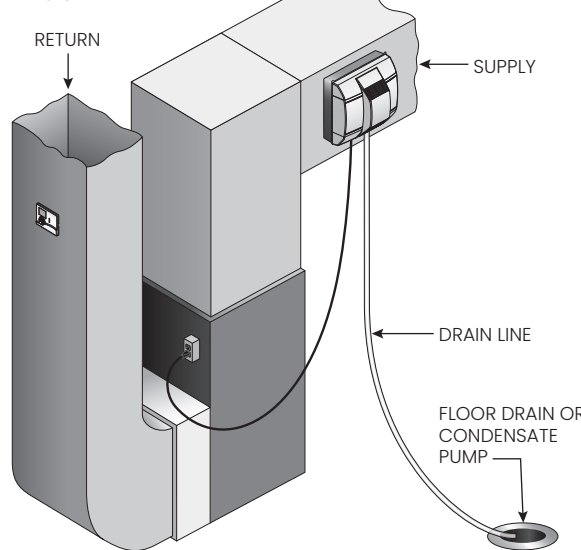
AprilAire Model 700 and 700M can be installed on either the supply plenum or cold air return of a forced air handling system. The humidifier dimensions and serviceability must be considered when selecting the best location for the humidifier.

Hot water is recommended (140°F max) for maximum evaporative capacity. It is also required when the Blower Activation Feature is used with an Automatic Digital Humidifier Control, when mounted on a heat pump system, or when the humidifier is mounted on a cold air return. The humidifier functions with cold, hot, softened, or unsoftened water.

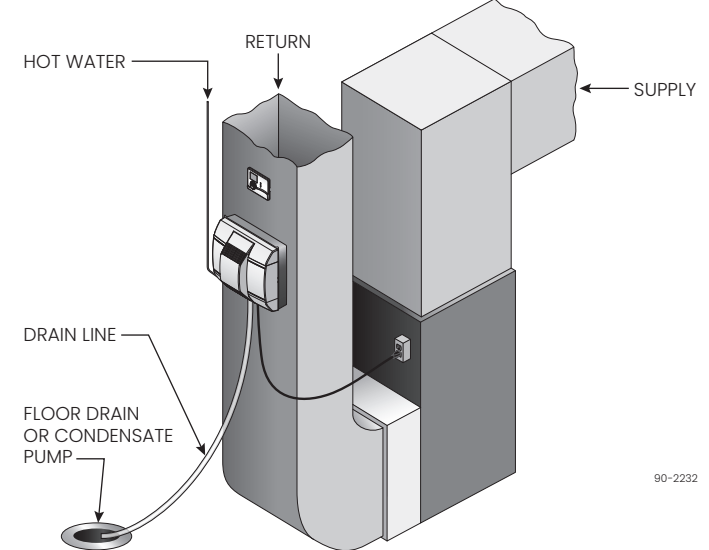
RECOMMENDED



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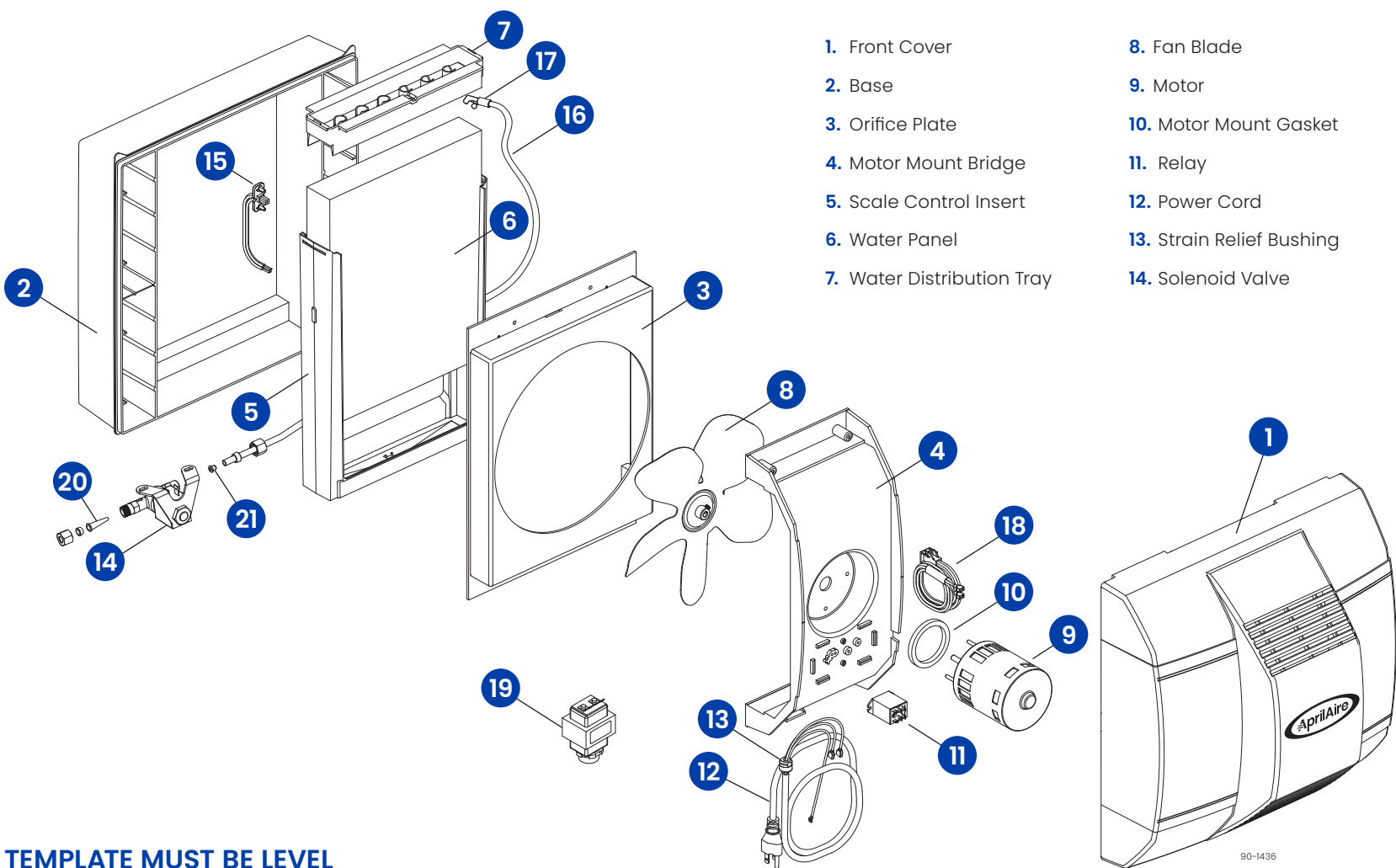


ALTERNATE



90-2232

PARTS LIST



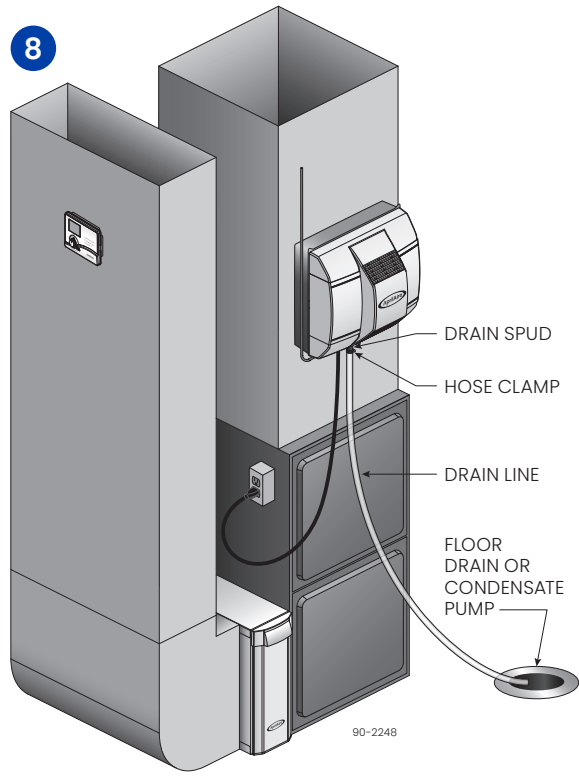
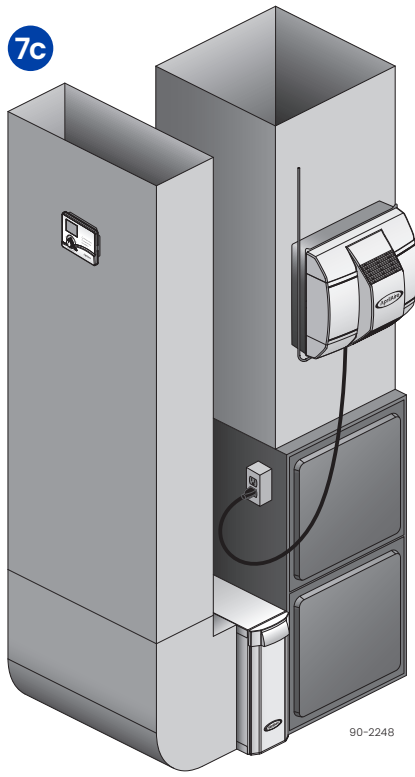
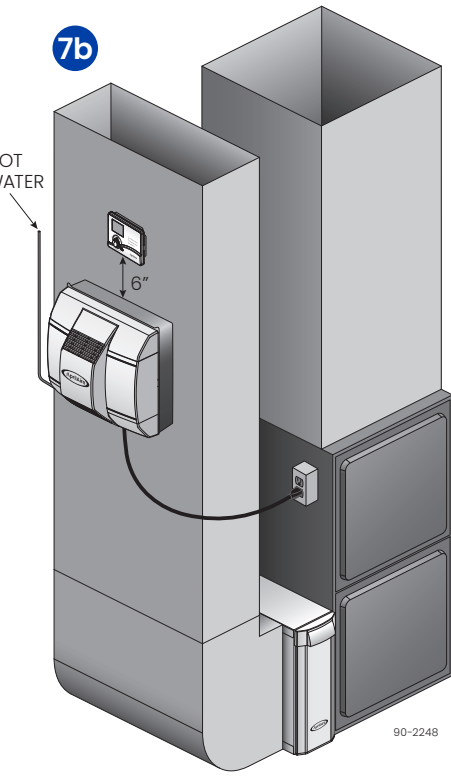
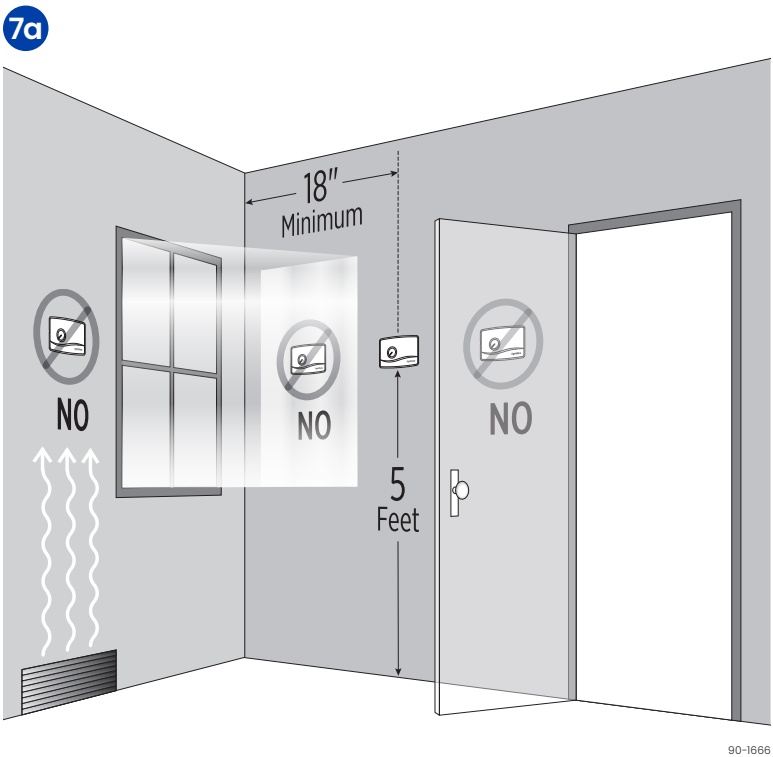
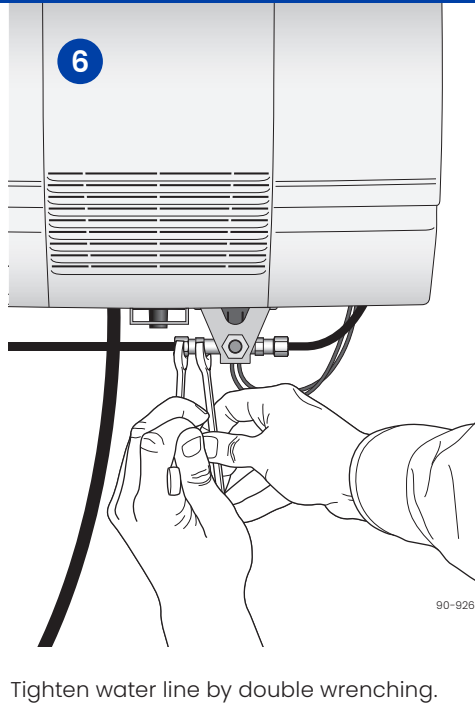
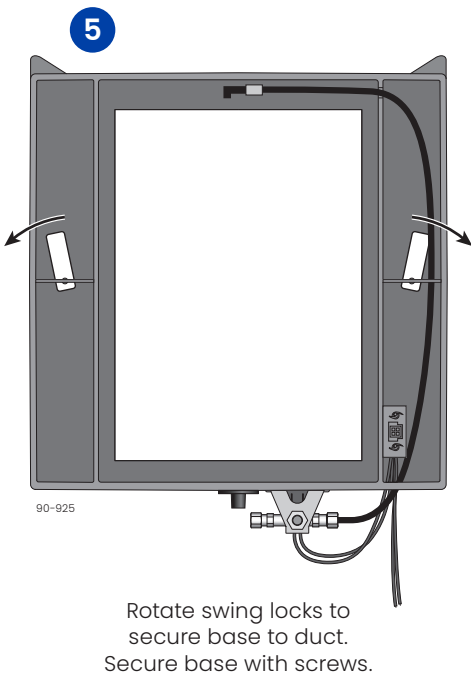
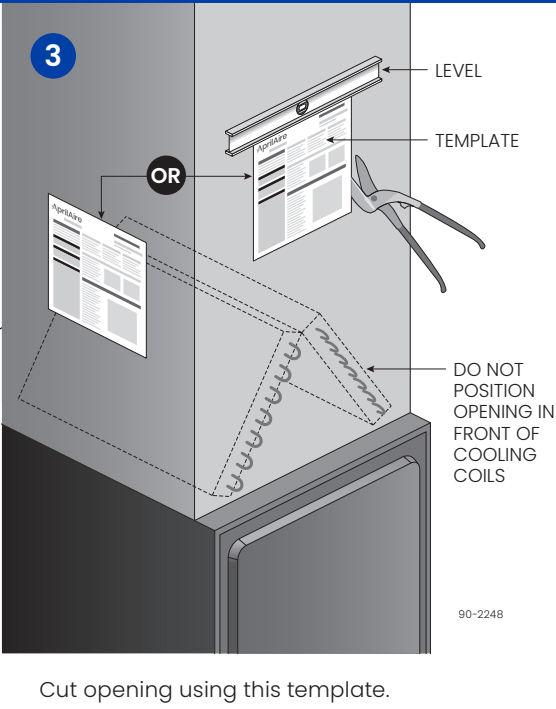
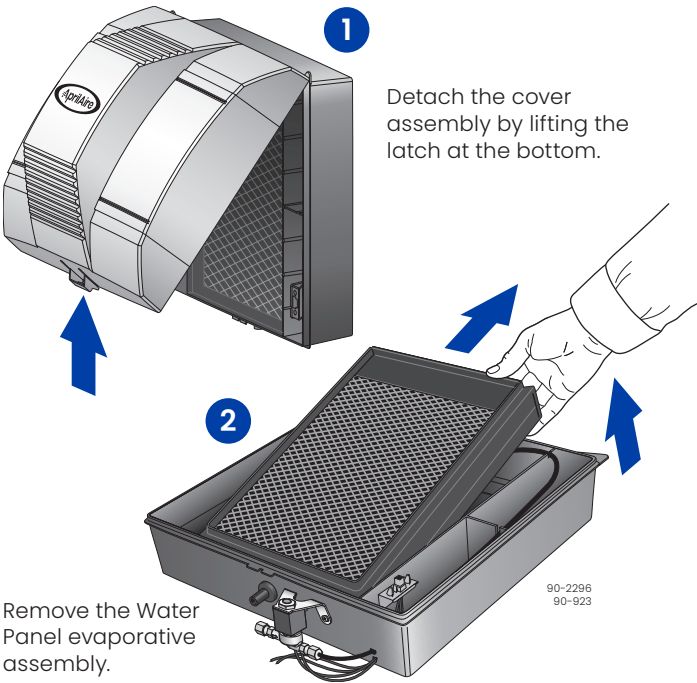
TEMPLATE MUST BE LEVEL



Product Info &
Digital Manual

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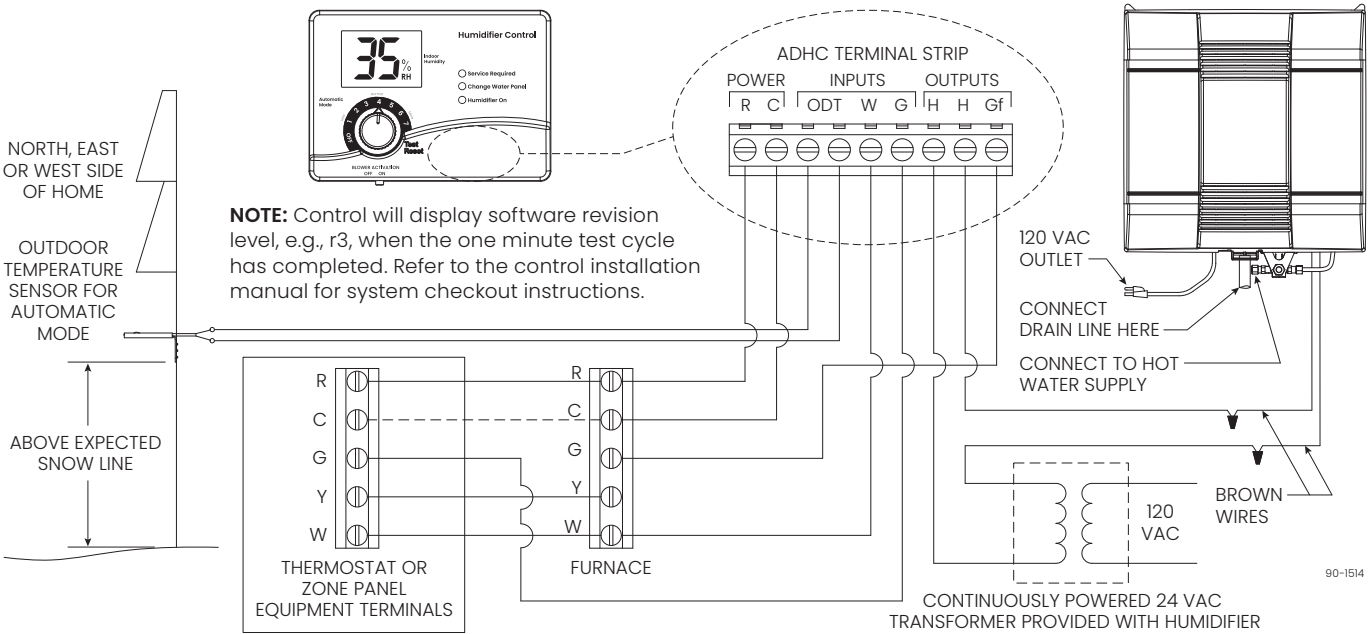
INSTALLATION INSTRUCTIONS



DRAIN LINE:

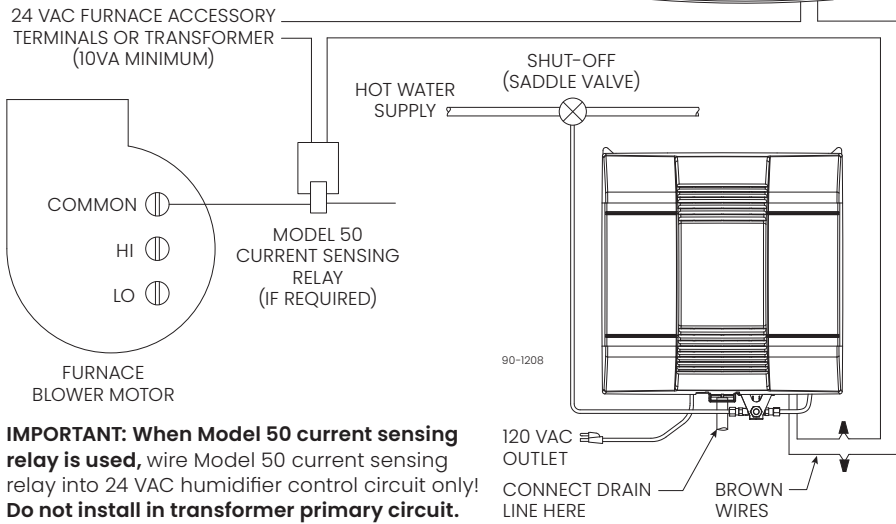
- Ensure downward slope and no kinks.
- Do not over-tighten hose clamp onto drain spud.
- Do not use solvent adhesive on drain spud.

MODEL 700 DIGITAL HUMIDIFIER CONTROL WIRING



MODEL 700M MANUAL CONTROL WIRING

IMPORTANT: Use 120 VAC power source other than furnace blower circuit. However, the transformer can be powered off the hot 120 VAC line before it enters the furnace. **Do not wire transformer into furnace blower circuit.**



IMPORTANT: When Model 50 current sensing relay is used, wire Model 50 current sensing relay into 24 VAC humidifier control circuit only! **Do not install in transformer primary circuit.**

INSTALLATION CHECKLIST

- ☐ Saddle valve is fully open.
- ☐ All plumbing connections are watertight.
- ☐ Unit is plugged into 120 VAC outlet.
- ☐ Humidifier functions properly.
- ☐ Owner's manual has been given to homeowner.