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Aprilaire 700M

AprilAire 700M Whole-House Fan Powered Humidifier Instruction Manual

Brand: AprilAire | Model: 700M

INTRODUCTION

The AprilAire 700M is a whole-house fan-powered evaporative humidifier designed to integrate with your home's HVAC system. It provides optimal humidity levels throughout your entire home, covering up to 5,300 square feet in tightly built homes with a capacity of 18 gallons per day. Maintaining proper humidity (between 40% and 60%) can help reduce respiratory infections, dry skin, and static shock, while also preserving wood furnishings and preventing damage from dry conditions.



Figure 1: AprilAire 700M Whole-House Fan Powered Humidifier

Your browser does not support the video tag.

Video 1: AprilAire Humidification Benefits Educational Overview. This video explains the advantages of maintaining optimal humidity in your home.

SETUP (INSTALLATION)

Installation of the AprilAire 700M humidifier involves integrating it with your existing HVAC system. While detailed instructions are provided in the box, professional installation is recommended. The unit is typically installed on the supply plenum of your furnace.

Your browser does not support the video tag.

Video 2: Installing AprilAire 700 Automatic Fan Powered Humidifiers. This video demonstrates the installation process for the AprilAire 700 series humidifier.

Installation Steps Overview:

- 1. Mount & Trace Template:** Position the provided template on the supply plenum, ensuring it is level and above the evaporator coil for optimal airflow. Trace the outline onto the ductwork.

2. **Cut Out the Plenum:** Use appropriate tools (e.g., tin snips) to cut along the traced lines, creating the opening for the humidifier.
3. **Secure Unit to Duct:** Insert the humidifier frame into the cut opening. Rotate the internal levers to secure the unit firmly to the ductwork, preventing shifting.
4. **Seal Unit to Duct:** Apply caulk, sealant, or metal duct tape around the edges of the humidifier frame where it meets the ductwork to prevent air leaks.
5. **Attach Water Line:** Connect a 1/4-inch water line to the humidifier's water inlet. It is recommended to use a SharkBite valve instead of the provided saddle valve for a more secure connection. Ensure a tight seal to prevent leaks.
6. **Attach Lead Wires:** Connect the lead wires from the humidifier to the furnace control board and the humidistat according to the wiring diagram in your instruction manual. This typically involves connecting to the 'C' (common) and 'W' (24V auxiliary) terminals on the furnace, and then to the humidistat.
7. **Attach Drain Hose:** Connect a 1/2-inch drain line from the humidifier's drain port to an appropriate drain. Refer to local codes for proper drainage installation.
8. **Plug in Power Cord:** Connect the humidifier's power cord to a 120V AC outlet.



Whole-House Humidification

Designed & Assembled
in the **USA**

Utilizing US and Global Components

Figure 2: AprilAire 700M Humidifier being installed on a furnace duct.

Included Components:

- AprilAire 700M Humidifier with built-in fan
- 24 VAC Transformer
- Manual Humidifier Control with Sensor
- Saddle Valve (alternative SharkBite valve recommended)
- Solenoid Valve
- Model #35 Water Panel
- Installation Instructions and Template
- 5ft Power Cord

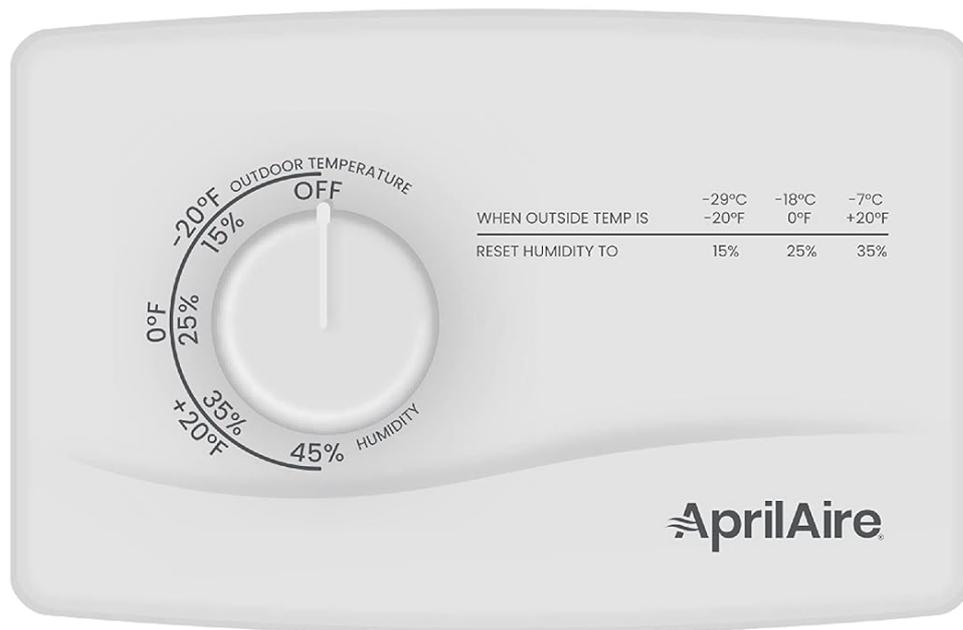


Figure 3: Components included in the AprilAire 700M box.

The AprilAire 700M features a manual control to set and maintain desired humidity levels in your home. The built-in fan pulls heated air directly from the furnace through the humidifier, distributing humidified air throughout your living space.

Setting Humidity Levels:

- The manual humidifier control includes a dial to set the desired percentage of humidity.
- Optimal indoor humidity levels are generally between 40% and 60%. Adjust the dial to your preferred setting.
- The control also features settings based on outdoor temperature to prevent condensation on windows. Adjust the humidity setting lower as outdoor temperatures drop.



MANUAL CONTROL

Manually Set and Maintain
Balanced Humidity

Figure 4: AprilAire Manual Humidifier Control.

Bypass Damper:

The AprilAire 700M includes a built-in bypass damper. This damper should be set for the season:

- **Winter Setting:** Open the damper to allow air to flow through the humidifier.
- **Summer Setting:** Close the damper when the humidifier is not in use (e.g., during cooling season) to prevent air from

bypassing the cooling coil.



BUILT-IN FAN

Pulls Heated Air Directly From Furnace
Through the Humidifier

Figure 5: Internal view of the AprilAire 700M humidifier with built-in fan.

MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your AprilAire 700M humidifier. The primary maintenance task is replacing the water panel.

Water Panel Replacement:

The Model #35 Water Panel should be replaced annually for best performance. The frequency may vary depending on your water quality.

1. **Unplug the Unit:** Always disconnect power to the humidifier before performing any maintenance.
2. **Remove the Cover:** Unlatch the bottom clip and rotate the cover upwards, then lift it off.
3. **Remove Water Panel Housing:** Rotate the water panel housing downwards and lift it out of the unit.

SPECIFICATIONS

Feature	Detail
Brand	AprilAire
Model Name	700M (Humidifiers Evaporative)
Special Feature	Adjustable Humidity Control, Auto Shut Off, Humidistat
Color	Gray
Floor Area Coverage	Up to 5,300 sq. ft. (tightly built homes); 4,200 sq. ft. (general)
Operation Mode	Evaporative
Product Dimensions	11.35"D x 15.91"W x 18"H
Item Weight	11.7 Pounds
Room Type	Whole-House
Included Components	24VAC Transformer, Humidifier Control, Valves, Instructions, 5ft Cord
Voltage	120 Volts (AC)
Wattage	120 watts
Capacity	18 Gallons per Day (GPD)
Manufacturer	Research Products Corporation



Width 15 29/32" • Height 18" • Depth 10 11/32"

Figure 7: AprilAire 700M Humidifier Dimensions.

AprilAire[®] MODEL 700 HOME SIZING

CONSTRUCTION	18 GPD
Tight	Up to 5,300 ft ²
Average	Up to 2,700 ft ²
Loose	Up to 1,800 ft ²

Values are calculated using equation 2 from AHRI 2015 Guideline F
Calculations assume 8ft ceilings

Figure 8: AprilAire Model 700 Home Sizing Chart.

WARRANTY

Specific warranty details for the AprilAire 700M Humidifier are typically provided with the product documentation. Please refer to the warranty card or the official AprilAire website for the most current and detailed warranty information.

SUPPORT

For further assistance, technical support, or to locate a professional installer, please visit the official AprilAire website or contact their customer service. You can find contact information and additional resources at [Aprilaire.com/contact](https://www.aprilaire.com/contact).