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Aprilaire 700M

AprilAire 700M Whole-House Fan Powered Humidifier User Manual

Model: 700M

1. Introduction and Overview

The AprilAire Model 700M is a whole-house fan-powered humidifier designed to integrate with your home's forced air heating and cooling system. This unit helps maintain optimal humidity levels throughout your entire home, contributing to comfort, health, and the preservation of your home's structure and furnishings.

It is designed for homes up to 5,300 square feet in tightly built conditions, with a humidification capacity of 18 gallons per day. The 700M features a manual control for precise humidity management.



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



Figure 2: The AprilAire 700M provides whole-house coverage for balanced humidity.

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Video 1: Overview of the features of the AprilAire 700 Whole-Home Furnace Humidifier.

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Video 2: Educational overview of the benefits of AprilAire humidification for a healthy home environment.

2. Safety Information

Please read and understand all safety instructions before installing, operating, or maintaining this humidifier. Failure to follow these instructions may result in property damage, personal injury, or death.

- **Electrical Safety:** Ensure power to the HVAC system is OFF before installation or servicing. All wiring must comply with local electrical codes.
- **Water Safety:** Turn off the water supply before servicing. Check for leaks after installation and periodically.

- **Installation:** Installation should be performed by a qualified HVAC professional.
- **Maintenance:** Regular maintenance is crucial for safe and efficient operation.
- **Children:** Keep children away from the humidifier during operation and maintenance.

3. What's in the Box

Carefully unpack all components and ensure all items are present before beginning installation.

- AprilAire 700M Humidifier with built-in fan
- 24 VAC Transformer
- Manual Humidifier Control with sensor
- Saddle Valve
- Solenoid Valve
- Model #35 Water Panel
- Installation Instructions and Template
- 5ft Cord



Figure 3: All components included with the AprilAire 700M Humidifier.

4. Setup and Installation

The AprilAire 700M Whole-House Humidifier is designed for professional installation into your home's HVAC system. It requires connections to your ductwork, water supply, and electrical power.
For detailed installation instructions, please refer to the dedicated Installation Manual provided with your unit or available on the AprilAire website. Key steps typically include:

1. Selecting an appropriate location on the supply or return plenum.
2. Cutting the opening in the ductwork using the provided template.
3. Mounting the humidifier securely.
4. Connecting the water supply line to the solenoid valve.
5. Connecting the drain line.
6. Wiring the humidifier to the 24 VAC transformer and the manual control.

7. Testing the system for proper operation and leaks.

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Video 3: A guide to installing AprilAire 700 Automatic Fan Powered Humidifiers.

5. Operation

The AprilAire 700M operates by drawing heated air from your furnace through a moisture-laden Water Panel evaporator. Natural evaporation turns water into vapor, which is then circulated throughout your home by your HVAC system.

5.1 Manual Control

Your humidifier is equipped with a manual control dial. This control allows you to set the desired relative humidity level in your home. The dial typically has settings that correspond to outdoor temperatures, as colder outdoor temperatures require lower indoor humidity settings to prevent condensation on windows.



Figure 4: The manual control dial for setting desired humidity levels.

5.2 Built-in Fan Operation

The 700M features a built-in fan that actively pulls heated air from your furnace directly through the humidifier's Water Panel. This fan-powered design ensures efficient humidification even when your furnace fan is not running continuously.



Figure 5: The built-in fan pulls heated air through the humidifier for efficient operation.

5.3 How Humidification Works

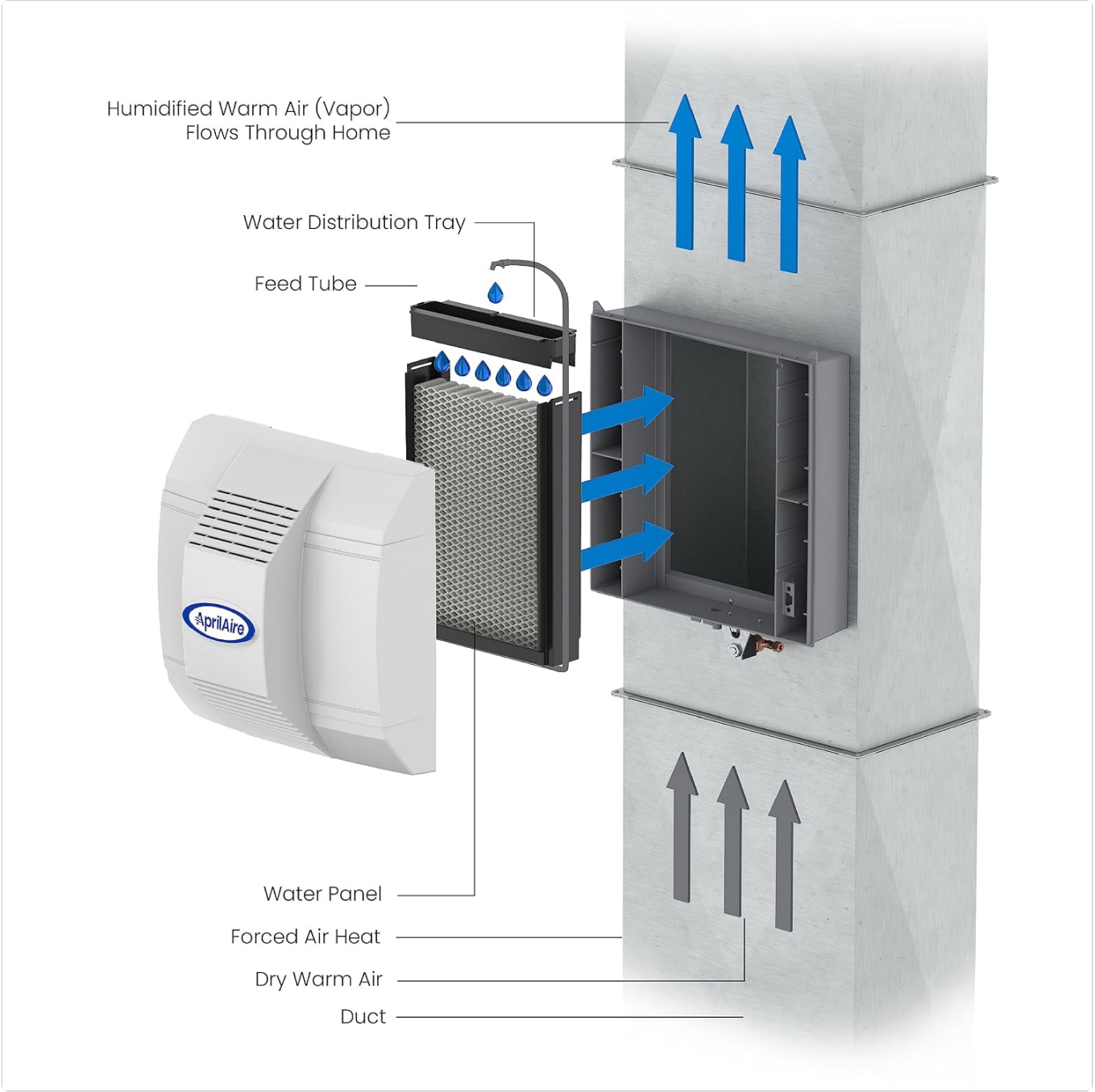


Figure 6: Diagram illustrating the humidification process within the HVAC system.

Dry warm air from the furnace duct passes through the Water Panel. Water from the distribution tray flows over the Water Panel, evaporating into the air. The humidified warm air (vapor) is then distributed throughout your home.

6. Maintenance

Regular maintenance ensures your AprilAire 700M Humidifier operates efficiently and effectively. The primary maintenance task is replacing the Water Panel.

6.1 Water Panel Replacement

The Water Panel (Model #35) should be replaced at least once per heating season, or more frequently in areas with hard water. A clean Water Panel is essential for optimal humidification performance.

1. Turn OFF power to the furnace and humidifier.
2. Turn OFF the water supply to the humidifier.

3. Remove the humidifier's cover.
4. Remove the old Water Panel and its frame.
5. Clean any mineral deposits from the humidifier's water distribution tray and drain pan.
6. Install the new Water Panel into the frame, ensuring correct orientation.
7. Reinstall the Water Panel assembly and the humidifier cover.
8. Turn ON the water supply and power to the furnace and humidifier.

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Video 4: Instructions on how to change the AprilAire Water Panel for 700 Series Humidifiers.

6.2 Seasonal Shutdown

At the end of the heating season, it is recommended to turn off the humidifier's water supply and power. You may also remove and discard the Water Panel to prevent bacterial growth during the off-season.

7. Troubleshooting

If your AprilAire 700M Humidifier is not operating as expected, consult the following common issues and solutions:

Problem	Possible Cause	Solution
No humidity output	No power to humidifier/furnace; Water supply off; Humidistat set too low; Clogged Water Panel; Solenoid valve malfunction.	Check power, water supply, humidistat setting; Replace Water Panel; Consult HVAC professional.
Excessive humidity/condensation	Humidistat set too high for outdoor temperature.	Lower humidistat setting according to outdoor temperature guidelines.
Water leaks	Loose water connections; Clogged drain line; Damaged humidifier components.	Check and tighten connections; Clear drain line; Consult HVAC professional for component replacement.
Unusual noise	Loose parts; Fan motor issue; Mineral buildup.	Inspect for loose parts; Clean humidifier; Consult HVAC professional.

If troubleshooting steps do not resolve the issue, contact a qualified HVAC professional for assistance.

8. Specifications

Detailed specifications for the AprilAire 700M Whole-House Fan Powered Humidifier:

Feature	Specification
Brand	Aprilaire
Model Number	700M
Humidification Capacity	18 Gallons Per Day (GPD)
Coverage Area (Tight Homes)	Up to 5,300 sq. ft.

Feature	Specification
Control Method	Manual Humidistat
Power Source	AC (120 Volts)
Wattage	120 Watts
Item Dimensions (D x W x H)	11.35"D x 15.91"W x 18"H
Item Weight	11.7 pounds
Filter Type	Evaporative (Water Panel #35)
Color	Gray
Material	Plastic



Figure 7: Dimensions of the AprilAire 700M Humidifier.

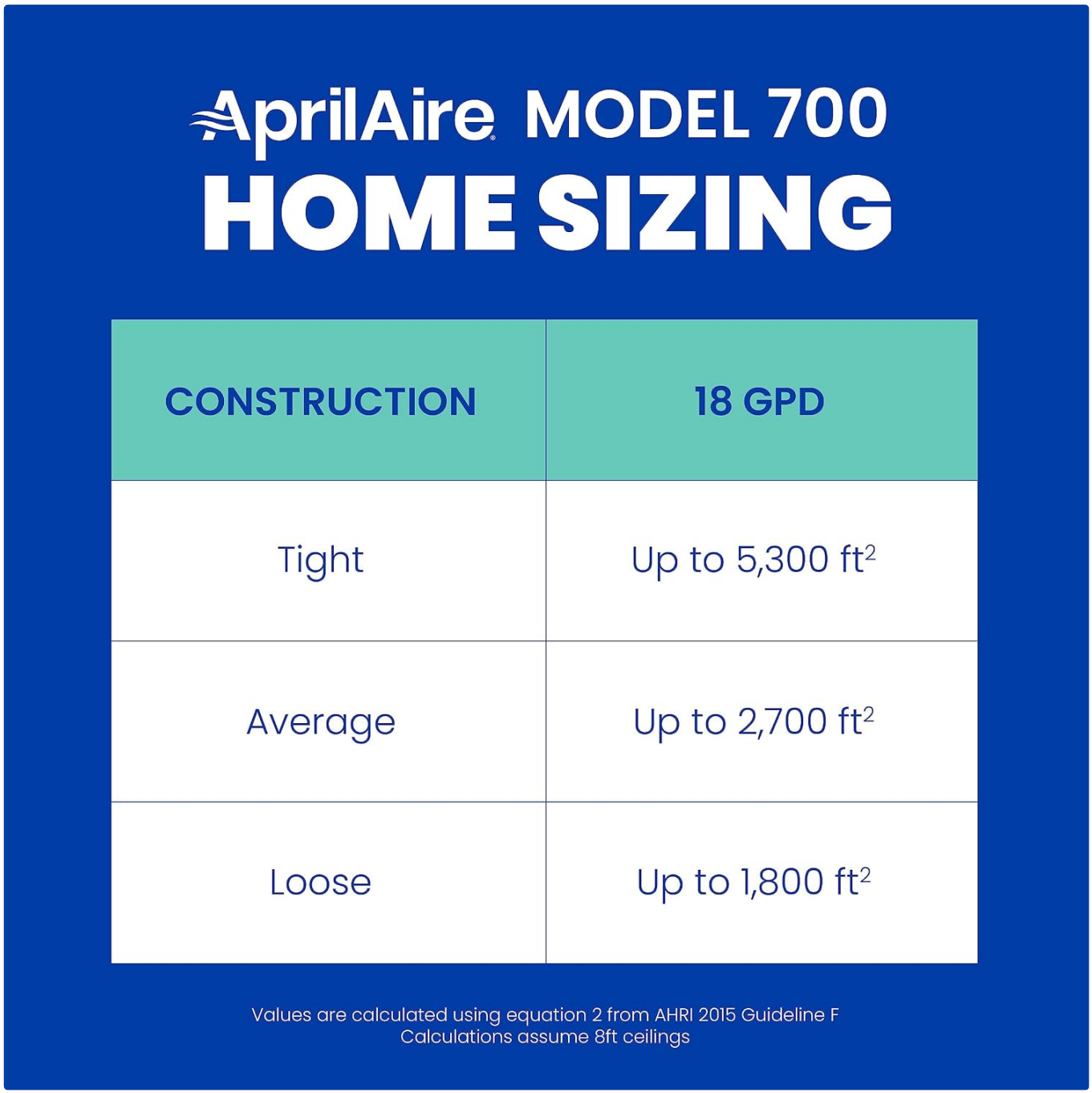


Figure 8: Home sizing chart for AprilAire Model 700 series humidifiers based on construction type.

9. Warranty and Support

9.1 Warranty

The AprilAire 700M Whole-House Fan Powered Humidifier comes with a**5-Year Manufacturer's Warranty**. Please refer to the warranty documentation included with your product for full terms and conditions.

9.2 Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty claims, please contact AprilAire Customer Support. Visit the official AprilAire website for contact information, FAQs, and additional resources.

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