

 **WHITE-RODGERS**

Comfort
plus™

**MODEL HFT2100,
HFT2700, HFT 2900FP
HOME HUMIDIFIERS**

OWNER'S MANUAL

**Includes Safety, Operating and Maintenance
Instructions**

**CAUTION: READ THESE INSTRUCTIONS THOROUGHLY
BEFORE SERVICING**

FILL IN FOR HOME OWNER REFERENCE:

Model No. Model HFT 2100 Model HFT 2700 Model 2900FP

Installation Date _____

SAVE THIS MANUAL FOR FUTURE REFERENCE

 **WHITE-RODGERS**
Controlling Indoor Comfort Worldwide
Since 1937

St. Louis, Missouri Markham, Ontario
314-577-1300 905-201-4701
www.white-roddgers.com


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HPB Part No. 000-0756-310 - Model HFT2100, HFT2700, HFT2900FP 2/02

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WARNING: Setting your humidity control higher than the listed setting could cause condensation that would damage your home. If excessive moisture appears on windows or walls, reduce humidity setting at humidistat enough to eliminate condensation. If the situation continues, turn off water valve and the humidistat until condensation is gone.

Homeowner Tips

A. In a home that has had little or no humidification, allow approximately three weeks for your new humidifier to attain the desired humidity level. Your furniture, woodwork, carpeting, plaster, houseplants and family members all need time to absorb lost moisture.

B. To eliminate drafts that allow heat and humidified air to escape, keep fireplace dampers closed when not in use.

Notes:

Maintenance Instructions for HFT2100, HFT2700 & HFT2900FP

Danger - To Avoid Hazard of Electrical Shock or Burn Turn Off Power Supplying This Equipment Before Servicing.

1. Shut off water supply.
2. Remove the humidifier cover by turning the screw located at the bottom of the cover and pulling the cover out toward you.
3. Tilt out the distribution tray and evaporator pad assembly.
4. All plastic and metal parts (except electrical parts and components) can be washed in humidifier cleaner or a 50% solution of vinegar and water.
5. Replace evaporator media, if cleaning is not satisfactory. This unit also contains a one piece wick. This wick must be changed along with the evaporator pad. The wick can be changed very easily by simply lifting out the old one and replacing it with the new one provided with the evaporator pad.
6. Evaporative media should be replaced at least once a year (once each heating season).
7. Wipe any loose sediment from the water tray (make certain no particles are allowed to plug the drain hole).

Water Hardness and Maintenance Schedule

Your humidifier will accumulate minerals such as calcium and lime after operating for a short period (accumulation of minerals is a sure sign the humidifier is producing humidity). The amount of accumulation is dependent on the hardness of the water supply in your area. Therefore the time between cleaning is unpredictable.

NOTE: Excessive buildup of these minerals is detrimental to internal parts as well as evaporative efficiency. Refer to the maintenance instructions above to achieve years of satisfactory performance from your White-Rodgers Humidifier.

Congratulations...

... on your purchase of a White-Rodgers High-Capacity Flow-Thru Humidifier—one of the finest home humidifiers made!

Caring for Your Humidifier

Please take a few minutes to read this booklet. It will familiarize you with the many features and benefits of your new humidifier, and aid you in understanding the routine maintenance that will ensure many years of efficient operation.

If, at some point, you need parts or service to maintain the superior performance of your humidifier, follow these simple procedures:

- Contact the heating and air conditioning contractor who installed your unit. Often, this information can be found on a label attached to your humidifier or heating system.
- If no label is found, look in the yellow pages of your phone book under Heating & Air Conditioning Contractors.
- Finally, if these attempts for parts or service fail, write or call White-Rodgers at the address or phone number printed on the front inside cover or page 5 of this booklet.

About Your White-Rodgers Humidifier

Principle of Operation

Your White-Rodgers Humidifier uses the same method of evaporation you observe in nature after a summer shower. Mother Nature's technique is simple: warm air passes over a thin layer of water spread over a large area, causing the water to evaporate and raising the level of humidity. Your humidifier creates the same natural response with an evaporator pad that dispenses water evenly in front of a warm air stream.

You'll notice that the evaporator pad has many holes and connecting strands. These significantly increase the surface from which water can evaporate. This warm air evaporative process, is intensified by the warm air from your furnace, this is what makes your humidifier perform efficiently.

The system is controlled by a humidistat that monitors the relative humidity in your home, and activates or deactivates the humidifier accordingly. Water evaporated from the humidifier leaves behind all its impurities (e.g., calcium, iron, lime, bacteria, etc.), thus creating a purified vapor that doesn't pollute your indoor air. As a result, your home will be free from these contaminants... and your family will almost certainly be healthier and more comfortable.

How Your Humidifier Works. . .

Model HFT2100 & HFT2700. When your home's air is dryer than the selected level of humidity, the humidistat activates the low-voltage solenoid in your humidifier, allowing water to flow across the unit's media. Warm, dry air is then forced through the humidifier cabinet by the furnace blower. As the warm air evaporates the water, the resulting moist (or humidified) air is circulated throughout your home by the heating system.

Model HFT2900FP. (White-Rodgers Model HFT2900FP operates identically to Model HFT2100 & HFT2700, except that warm air is forced through the humidifier cabinet by a humidifier fan rather than by the furnace blower.)

Operating Instructions

Your new humidifier is controlled by a humidistat that is installed either on the cold air return of your furnace, or on an interior wall of your home. The recommended settings for this control may seem illogical until you understand the principle behind them....

As you can see from the Humidistat Settings chart below, the recommended setting goes down as the outside temperature decreases—just the opposite of how your furnace's thermostat operates. To understand the reason for this, think of what happens to an ice-cold drink when it's outside on a hot summer day... water (or condensation) forms on the outside of the glass. Condensation occurs because the hot summer air contains humidity, and the cold surface of the glass cools the surrounding air. Once cooled, the air molecules become smaller and can no longer hold as much moisture. The result is that water droplets accumulate on the glass.

The same principle applies to your home during the winter, when the outside temperature drops and the inside air remains warm and humid. In order to retain moisture in your home and prevent condensation, it's necessary to turn your humidistat down as outside temperatures fall.

Recommended Humidistat Settings

At Outside Temperature	Recommended Setting	At Outside Temperature	Recommended Setting
-20°F. -29°C.	15%	+10°F. -12°C.	30%
-10°F. -23°C.	20%	+20°F. - 7°C.	35%
0°F. -18°C.	25%	Above 20° -7°C.	40%

Checking the Humidifier for Proper Operation

To check your humidifier for proper operation after servicing or winter start-up, follow these procedures:

1. Turn the furnace blower to the OFF position, making sure the solenoid valve is closed.
2. Turn the furnace blower ON and set the humidistat to the full on position. The solenoid valve should open.
3. Make sure the water flow from the solenoid falls directly into the distribution tray. (The solenoid valve should limit the flow to approximately four gallons per hour at a line pressure of 60 P.S.I.)
4. To avoid overflow, run the humidifier long enough to be sure the drain tubing is carrying water to the waste line.

▲ WARNING: DO NOT SET HUMIDITY CONTROL TOO HIGH. Use the recommended settings shown on humidistat nameplate.