

 **WHITE-RODGERS**

# **Comfort** --- **plus™**

**MODEL HDT2600**  
**WHOLEHOUSE CENTRAL HUMIDIFIER**

# **OWNER'S MANUAL**

**Includes Safety, Operating and Maintenance  
Instructions**

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

**FILL IN FOR HOME OWNER REFERENCE:**

Model No. \_\_\_\_\_ **HDT 2600** \_\_\_\_\_


Installation Date \_\_\_\_\_

**SAVE THIS MANUAL FOR FUTURE REFERENCE**

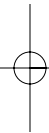


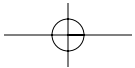
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**WARNING:** Setting your humidity control higher than the listed setting could cause condensation that would damage your home. If excessive moisture appears on windows or walls, reduce humidity setting at humidistat enough to eliminate condensation.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





**PRINCIPLE OF OPERATION**

Your White-Rodgers Humidifier uses the same natural methods of evaporation that you see in mother natures, everyday, normal, environment. Natures way is simple, a little water spread over a large area with a warm breeze will evaporate the water and raise the relative humidity, just the same as it would after a summer shower.

The humidifier accomplishes this with a polyurethane foam evaporator pad that lifts water from the water pan and into the warm air stream. You will notice that the evaporator pad has many holes and connecting strands, these drastically increase the area that the water can evaporate from. This combined with the warm air in your heating system is what makes the humidifier work.

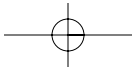
The system is controlled by a humidistat that monitors the relative humidity within your home and activates or deactivates the humidifier accordingly.

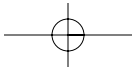
Water evaporated from this humidifier leaves behind all the impurities (Calcium, Iron, Lime, Bacteria, etc.) that were contained in the water, thus the vapor is in a pure form and these impurities are not distributed into your home. This will keep our home clean and your family safe from these contaminates.

**OPERATING INSTRUCTIONS**

Your new humidifier is controlled by a humidistat that is installed either on the cold air return or in the living area on an interior wall. The recommended settings on this control may seem a bit strange when you first read them. But there is a reason for them and it can be explained fairly easily. You will notice the recommended setting goes down with the outdoor temperature, this seems illogical. If you remember last summer when you were outdoors with a cold drink the outside of the container became wet and water began to run down the sides. This is called condensation, caused by the surface of the container reaching the dew point. This means the air surrounding the container contained humidity and the cold surface of the container cooled the air around it, when cooled the air becomes smaller and is no longer capable of holding as much moisture as it could hold when it was warm. This is what caused the moisture to accumulate and run down the container. The same thing can happen in your home in the winter when the outside temperature drops and the inside is warm and humid. This is why the settings go downward when the temperature goes down to prevent accumulation on your windows etc.

| <b>At Outside Temperature</b> | <b>Recommended Setting</b> | <b>At Outside Temperature</b> | <b>Recommended Setting</b> |
|-------------------------------|----------------------------|-------------------------------|----------------------------|
| -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%                        |





Occasionally some indoor activity may cause the humidity to rise to excess and begin to accumulate on windows. Such activities as cooking, showers, and clothes drying, etc. If this condition persist for more than a few hours the humidifier should be turned off and if this condition still continues, the home should be ventilated to remove the moisture.

### **CHECKING THE HUMIDIFIER FOR PROPER OPERATION**

To check the humidifier for proper operation, winter start up, and after servicing follow this recommended procedure.

1. Turn the water on at the saddle valve to the humidifier.
2. Check the water level in the humidifier, water level setting should be 1-3/8". Turn valve adjustment screw clockwise to lower water level and counter clockwise to raise.
3. Turn the humidistat to its highest setting and observe the humidifier evaporator pad for rotation. If the unit is not rotating turn the furnace on by setting the thermostat higher until the furnace starts and the blower is running.

**NOTE:** Wiring the unit to operate independent of or in conjunction with the furnace blower is left to the discretion of the installer. On installations where the unit might be closely sized, independent operation allows the unit to operate thru-out the full blower cycle, thereby eliminating lag time involved in starting the humidifier.

4. Reset thermostat and humidistat to their correct positions for automatic operation.

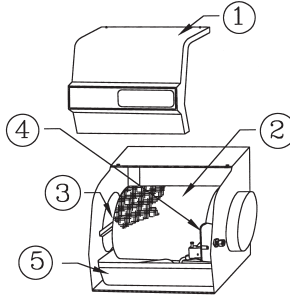
### **WATER HARDNESS AND MAINTENANCE SCHEDULE**

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. In areas with hard water where cleaning becomes frequent we suggest installation of a White-Rodgers Automatic Flushing Timer to increase time between cleaning intervals.

**NOTE:** Excessive buildup of these minerals is detrimental to internal parts as well as evaporative efficiency.

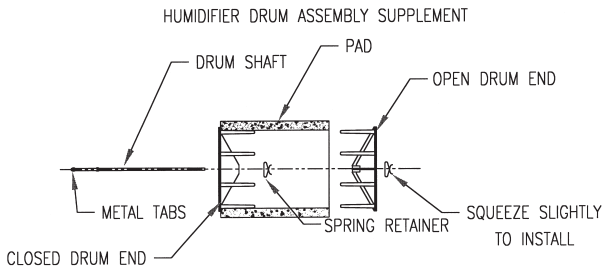
  
**MAINTENANCE INSTRUCTIONS**  
**FOR**  
**WHITE-RODGERS HUMIDIFIER MODEL HDT2600**

**MODEL HDT2600**



**REPLACEMENT PAD #  
A04-1725-034**

1. Turn the water off at the saddle valve by turning the T handle clockwise.
2. Remove the humidifier cover (1) by lifting the bottom upward on the bottom for the model HDT2600.
3. Remove the drum assembly (2) by lifting the drum shaft from the bearing end (3) and slide it out of the motor coupling, then remove drum from unit.
4. Remove the rubber valve seat by grasping it between your thumb and fore finger and lifting it upward and removing it from the valve. (see arrow 4 inside water valve opening.)
5. Now raise the float up to remove the water pan (5) for cleaning.
6. For drum disassembly and assembly see the drawing below.



7. Clean all parts in a 50% solution of vinegar or a humidifier cleaner and water. Soaking over night to remove stubborn deposits, is sometimes required.

**NOTE:** It is suggested that the evaporator pad be replaced yearly. Depending on the hardness this interval could vary.

8. For reassembly reverse procedures 1 thru 5 and return to the section labeled "CHECKING THE HUMIDIFIER FOR PROPER OPERATION" follow these steps to assure proper humidity output.



 **WHITE-RODGERS**  
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