

Aprilaire®

Humidifiers



Owner's Manual

For Models 350, 360, 400, 400M, 500,
500M, 600, 600M, 700 & 700M

Includes Safety & Operating Instructions
and Warranty Information

READ AND SAVE THESE INSTRUCTIONS

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WARNING

**120 volts may cause injury from electrical shock.
Disconnect power and shut off water supply before servicing.**

CAUTION

Sudden operation may cause personal injury or property damage. Turn the Aprilaire® Humidifier Control to "OFF" or lowest setting before servicing.

INTRODUCTION

Thank you for your recent Aprilaire® humidifier. We are pleased to serve you and your business. You have invested in the Aprilaire manufacturing process, a whole-house recognized leader in the heating and cooling industry.

Your humidifier will require periodic maintenance for peak performance. See page 11 to obtain the Water Panel® evaporators.

Please take a few minutes and read this introduction with the benefits you will receive from your humidifier and help you understand the routine maintenance required.

Be sure to register your humidifier with us at www.aprilaire.com/warranty.

Genuine Aprilaire® Replacement Water Panels® are available from your installer or from most other heating and air conditioning contractors in your area. Use the dealer locator in our website (www.aprilaire.com) or call 800-334-2222. Purchase only genuine Aprilaire® Replacement Water Panels to maintain peak performance.

PRINCIPLE OF OPERATION

With your purchase of this humidification system, you have invested in a humidifier that operates on the evaporative principle – nature's own way of adding moisture – providing optimum relative humidity (RH) throughout the heating season. It is very possible that you have questions concerning your new humidifier – questions on what it can do for you, and what you should do to receive maximum benefits from it. This booklet is intended to answer these questions.

Nature, in producing an invigorating comfortable April day, combines just the right temperature and the right amount of moisture. Aprilaire humidifiers employ the same principle, with refinements, to give you the optimum RH for maximum allowable comfort all winter long.

The important considerations in the evaluation of a humidifier are precise control, sufficient capacity, trouble-free performance and minimum maintenance. The operating principle of your Aprilaire humidifier provides all of these advantages. Here, briefly, is the method:

Except for Models 350 and 360, the Aprilaire humidifier is installed to operate in conjunction with the heating, ventilating, air conditioning equipment (HVAC) blower. When the Aprilaire Humidifier Control calls for humidity and the blower motor is operating, water flows to the distribution tray located at the top of the humidifier. The water is uniformly distributed across the width of the tray and through a scientifically designed system of outlets. It flows by gravity over the Water Panel® evaporator, the heart of the humidifier. Dry, hot air is moved through the moisture-laden Water Panel® evaporator where natural evaporation takes place. The now-humidified air carrying moisture in vapor form (nature's own way) is circulated throughout the home.

With bypass Models 400, 500 and 600 Series, HVAC system airflow is drawn through the humidifier from the supply duct to the return duct. 700 Series models, and Models 350 and 360 have a built-in fan which draws air through the Water Panel.

Models 350 and 360 must use service hot water (140°F maximum) for a heat source, as heat is needed for evaporation. The other models can work with cold or hot water, but hot water provides maximum output and is recommended if the humidifier is to be run in fan-only mode. While the water going to the humidifier is hot, the flushing water to the drain will be cold. The heat is extracted during the evaporation process.

The correct water flow is determined by an orifice provided with each drain type humidifier. When the humidifier is operating, there will be a small, steady stream of water to drain, which flushes away most of the trouble-causing minerals.

Do not use the saddle valve to regulate water flow. The saddle valve must be completely open or closed.

The minerals and solid residue not trapped by the Water Panel® evaporator are flushed down the drain. Models 350, 360, 600, 600M, 700 and 700M. This is the best method to dispose of trouble-causing minerals and prevent the problems caused by stagnant water.

Trouble-free performance and minimum maintenance are design features of the Aprilaire humidifier. Design features that come in contact with water are non-corrosive. Neither heat nor water will affect the performance.

The Water Panel® evaporator, designed for efficient evaporation, and the Scale Control Inlet Valve effectively traps mineral deposits within the humidifier. Working parts in ordinary humidifiers are subject to wear. **The Water Panel® evaporator is the heart of the humidifier. To assure high capacity trouble-free operation, the Water Panel® evaporator should be changed at least annually with Model 400M which should be changed at least annually.**

The distribution tray incorporates a series of outlets to deliver water uniformly over the Water Panel® evaporator, provided the humidifier is free of mineral deposits. Mineral deposits do form in the distribution tray during the humidification cycles. These deposits block the openings in the tray, but if they block the openings in the tray, the "Periodic Preventative Maintenance" should be performed.

Your Digital Humidifier Control works to control the operation of the humidifier. It senses outdoor temperature and automatically controls the humidifier to provide the optimum humidity.

The Automatic Control can be set to maintain a desired humidity. Plumbing the humidifier for this mode of operation.

The digital readout on the control panel shows the relative humidity in the air return duct. RH is a measure of the percentage of what the air can hold. When the RH is low, cold air can.

The control has lights which indicate humidifier operation, when the Water Panel needs to be replaced and when service is required. See "Operating Instructions" for more information.

There are many humidifiers on the market. They all add moisture... with varying degrees of efficiency. None, however, offer the features, design, and performance incorporated into your new Aprilaire humidifier.

OPERATING INSTRUCTIONS – MODELS 400, 500, 600 & 700

The Digital Humidifier Control offers two modes of operation, Automatic or Manual. An explanation of both modes follows. (See **Figure A** on page 5 for Automatic Mode. See **Figure B** on page 6 for Manual Mode.)

When in the Automatic Mode, this system offers the following benefits:

- **You will always receive the optimum amount of humidity so that your home and its furnishings are always protected from the damaging effects of excess condensation or low humidity during the heating season.** The Control automatically adjusts your home's RH based on the outdoor temperature, increasing the time maximum comfort is maintained.
- **Simple operation with few adjustments.** The Control eliminates the need to manually adjust the control when outdoor temperature changes. It also eliminates the need to turn the dial setting to "OFF" during the summer season.

DIGITAL HUMIDIFIER CONTROL INDICATOR LIGHTS

Call Dealer for Service: The red light indicates that the humidifier is not operating normally and that service is required.

Change Water Panel: The yellow light indicates that it is time to change the Water Panel in the humidifier.

Humidifier On: The green light indicates that the humidifier is operating normally.

BLOWER ACTIVATION

The Blower Activation switch is set to the "ON" position to allow the humidifier control to activate the HVAC fan for maximum humidification. For this setting the Models 500, 600 and 700 must be connected to hot water.

If the HVAC system has been idle for one hour, the humidifier control will activate the HVAC system fan to sample the air for 3 minutes. If the RH is lower than the set point, the humidifier control will activate the humidifier

and keep the fan running. The humidifier will continue to operate until the humidification set point is reached.

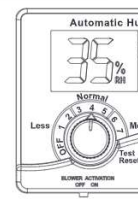
If the RH set point has not been reached, the humidifier control will continue to operate the HVAC fan until the humidification set point is reached.

When the "Blower Activation Switch" control will only operate the humidifier system fan is operating or the HVAC system fan is operating.

NOTE: If used in conjunction with a Thermostat, and the blower activation switch communication terminals.

AUTOMATIC MODE

FIGURE A – Automatic Mode



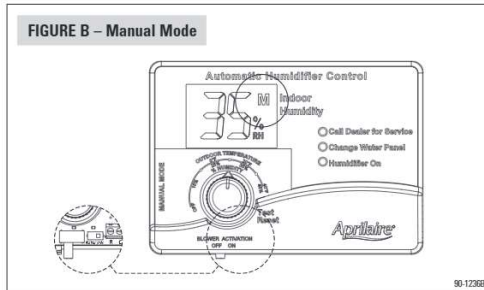
Your Aprilaire Humidifier Control is set to "Automatic" mode. During the first heating season, you should initially set the control to match your home's conditions by adjusting your control (refer to **Figure A**).

1. Turn the dial setting knob to "5". During the next 24-48 hours it may be necessary to adjust the humidity, depending on your requirements. Refer to **TABLE 3 – Humidity Requirements**.
2. During the coldest portion of the first heating season, you may be necessary to adjust the humidity. This is dependent on your requirements. Refer to **TABLE 3 – Operation Guide**.

The RH in your home will now be accurate and should not need further adjustment. Make note of the dial setting in the future to "OFF" when performing annual maintenance.

MANUAL MODE

FIGURE B – Manual Mode



When installed in the Manual Mode (see **Figure B** – internal switch in “MAN” position and “M” in the display), it is important to anticipate a drop in outdoor temperature and reduce the setting accordingly to avoid excessive condensation. For example, with an outdoor temperature of 20°F the correct setting will be 35% RH. If the temperature is expected to fall to 0°F, then merely reduce the setting to 25% several hours prior to the temperature change.

See **Table 1** for the recommended settings. These settings, which are based on years of research, represent a compromise between RH levels that would be most desirable for comfort and humidity levels that are suitable for protection of your home and to avoid condensation on your windows. For example, a wintertime indoor RH of 50% may be considered ideal for comfort, but unfortunately, it probably would result in condensation, which can cause damage to your home. Observing the recommended RH levels on your Humidifier Control is an important safeguard. Condensation of water on the inside surface of windows in the form of fogging or frost is usually an indication of too much humidity. This same condensation can occur in other areas in your home, possibly resulting in damage.

TABLE 1 – Outdoor Temperature/Indoor Relative Humidity

Outside Temperature	Recommended RH
+40°F	45%
+30°F	40%
+20°F	35%
+10°F	30%
0°F	25%
–10°F	20%
–20°F	15%

WATER PANEL CHANGE INDICAT

The control keeps track of humidifier Water Panel™ light flashes after a elapsed. This running time is preset b model and water hardness.

Refer to the Annual Maintenance se Water Panel or call your heating an After the Water Panel is replaced, tun position until the green “Humidifier l Panel change timer.

TEST/RESET

The Test/Reset feature allows the hun there is no call for humidity. See “Che

ADDITIONAL INFORMATION

Your humidifier is a precision system in your home. For every 2°F change Humidifier Control will automatically :

The Digital Humidifier Control will ar home to a maximum of 45% RH.

The RH Values in **Table 2** are targets Digital Humidifier Control setting. The in the home (cooking, showering, etc.)

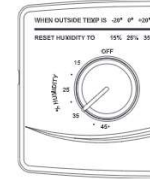
TABLE 2 – % Rela

		Outdoor		
		–10°F	0°F	10
Dial Setting	1	10%	10%	10
	2	10%	10%	15
	3	10%	15%	20
	4	15%	20%	25
	5	20%	25%	30
	6	25%	30%	35
	7	30%	35%	40

TABLE 3 – Operation Guide	
Condition	Solution
Condensation on windows.	Reduce the setting on the control dial by 1 increment.
Lack of humidity.	Increase the setting on the control dial by 1 increment. If the Humidifier Control is already at the maximum setting of “7”; set the Blower Activation Switch to “ON”. The humidifier should be plumbed to hot water when using the Blower Activation feature.
Humidifier does not operate. (Solenoid does not “click” when control is moved to “Test/Reset” position.)	Turn dial to “Test/Reset”. Make certain HVAC blower is operating. If unit still does not operate, consult a heating contractor.
Humidifier won’t shut off.	Turn dial to “Off”. If unit continues to operate, consult a heating contractor.
Test mode.	System operation is checked by setting the knob to “Test/Reset”. Make certain HVAC blower is operating. Humidifier will operate for one minute. If the control knob is left in the test/reset position, after 1 minute the display will flash the software revision level e.g. r1. NOTE: Placing the knob in “Test/Reset” resets the Water Panel change timer.
Red “Call Dealer for Service” light flashes (Figure A).	Note the error code on the display (E1, E2, E3 or E4) and call your heating and air conditioning dealer.
Yellow “Change Water Panel” light flashes (Figure A).	Refer to the Annual Maintenance section (page 11) for instructions on changing the Water Panel or call your heating and air conditioning dealer for service. After the Water Panel is replaced, turn the Control knob to the “Test/Reset” position until the green “Humidifier On” light flashes, to reset the Water Panel change timer.

OPERATING INSTRUCTIONS – MODELS 350, 360, 400M, 500M

FIGURE C – Manual Humidifier Control



Your Aprilaire humidifier is controlled (Figure C). The Manual Humidifier Control is located on the return duct or on an interior wall of the room. When using the Manual Control, it is important to anticipate a change in the setting accordingly to avoid excessive humidity. If a Digital Humidifier Control is installed in the room, the Manual Control should be set to “Off”.

To determine the indoor RH, slowly turn the knob to the “Test/Reset” position and listen for 2 clicks. The indoor RH is indicated by the number of clicks.

CHECK THE HUMIDIFIER OPERATION

DIGITAL HUMIDIFIER CONTROL

Set the knob to “Test/Reset”, make sure the unit is plugged in and that there is electricity to the humidifier. Note: The “Change Water Panel” timer. The unit will operate for 1 minute in test mode. (Model 400 and 500M have a solenoid valve to allow water flow.) If the unit is not operating, refer to the recommended inside RH, depending on the outside temperature. **NOT LEAVE IN TEST MODE AS HUMIDIFIER WILL OPERATE FOR 1 MINUTE.**

MANUAL HUMIDIFIER CONTROL

Set the knob to the highest setting, make sure the unit is plugged in and that there is electricity to the humidifier. Note: The “Change Water Panel” timer. The unit will operate for 1 minute in test mode. (Model 400 and 500M have a solenoid valve to allow water flow.) If the unit is not operating, refer to the recommended inside RH, depending on the outside temperature. **NOT LEAVE IN TEST MODE AS HUMIDIFIER WILL OPERATE FOR 1 MINUTE.**

ADDITIONAL INFORMATION FOR ALL MODELS

Be sure to keep fireplace dampers closed when not in use. They provide an excellent escape route for heat, as well as humidity.

On occasion, indoor moisture producing activities such as clothes drying, cooking, showers, etc., may raise the RH level higher than it should be, even though the Aprilaire humidifier is not operating. Telltale indications are condensation or frost on cold surfaces such as windows, doors, walls, etc. If such condensation persists for several hours, your home should be ventilated to dissipate the potentially damaging excess moisture.

EFFECT OF WATER CHARACTERISTICS

Your humidifier is designed to operate using hot, cold, hard or mechanically softened water. (Hot water is required for Models 350 and 360 and recommended for all models to ensure maximum performance.)

Water contains varying amounts of minerals. The residue remaining as a result of hard water evaporation is primarily calcium and magnesium components and is usually quite hard, scaly, and dense.

Residue from softened water tends to be soft and fluffy and has a greater volume than hard water deposits. In either case, the service life of a Water Panel evaporator will be the same. The Water Panel evaporator should be changed at least once a year with the exception of Models 400 and 400M which should be changed at least twice a heating season. In the drain-equipped models, most of the mineral solids are flushed down the drain.

Hot supply water, 140°F maximum, is recommended with drain type humidifiers for increasing capacity and is required for heat pump and air handler applications.

WARNING

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.

ANNUAL MAINTENANCE

For best performance, we recommend changing the Water Panel evaporator in your Aprilaire humidifier with the exception of Models 400 and 400M at least twice per heating season.

The "Change Water Panel" indicator light will blink when it is time to change your Water Panel. For additional maintenance.

To purchase a new Water Panel:

- Call the installer of your Aprilaire humidifier. This information is often found on the label.
- Call your heating and air conditioning contractor.
- Use our "Dealer Locator" at: www.aprilaire.com.
- Look in the Yellow Pages under Heating & Air Conditioning Contractors.
- If none of the above is successful, please feel free to write us.
- Purchase only Genuine Aprilaire Water Panels.

If your humidifier is equipped with a Water Panel change indicator, after replacing the Water Panel, turn the control knob to the "Test/Reset" position to reset its timer. (Blower must be operating to turn the control knob back to its normal position. If the light continues to blink, your humidifier is in **TEST MODE OR HUMIDITY CONTROL**.)

ANNUAL SUMMER SHUTDOWN

For Models 400, 400M, 500, 500M, 600 and 600M close the bypass damper, which is a part of the humidifier, with the small damper handle.

Humidifier Control:

Digital Humidifier Control in Automatic Mode (see **Figure A**):
No adjustment is necessary.

Digital Humidifier Control in Manual Mode (see **Figure B**):
Set the knob to the "OFF" position.

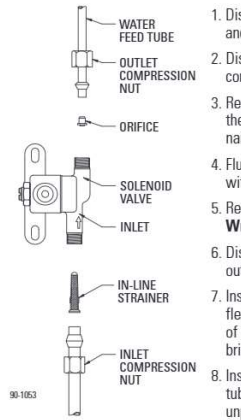
Manual Humidifier Control (see **Figure C**): Set the knob to the "OFF" position.

PERIODIC PREVENTATIVE MA

NOTE: Periodic inspection and prev heating system is important for effici contractor can service your humidifier

All models have a distribution tray ab inspected annually and cleaned of exc

WATER LINE INSPECTION A

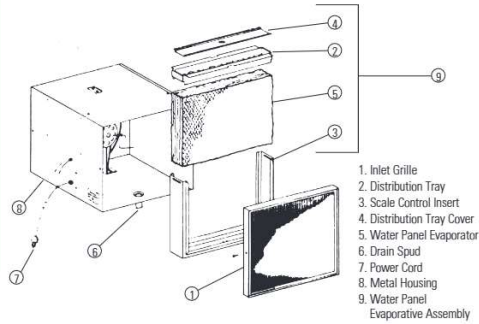


9. Reconnect the water feed tube. **D**
10. Remove the drain line from the bott to loosen any mineral deposits or bl under pressure to clear it of any deb If drain line does not flow properly, sure it has a constant downward s
11. Turn on water supply and reconne

REQUIRED MAINTENANCE INSTRUCTIONS (APRILAIRE HUMIDIFIER MODELS 350 & 360)

⚠ WARNING

120 volts may cause serious injury from electrical shock. Disconnect power and shut off water supply before servicing.



1. Note Manual Humidifier Control setting and turn dial to the "OFF" position.
2. Disconnect electrical power and turn off water supply.
3. Remove inlet grille screws (1). Remove grille from metal housing (8).
4. Lift the Water Panel evaporative assembly (9) out of the humidifier housing (8).
5. To remove the distribution tray (2) from Water Panel evaporative assembly (9), push down on tray and pull out scale control insert (3). To clean the "V" openings of the tray, gently pry the distribution tray cover (4) from the tray. Lightly scrape out or brush off any mineral deposits, being careful not to stretch or loosen the synthetic fabric liner. Soaking the tray in vinegar or a lime-removing agent is helpful when trying to remove stubborn mineral deposits.
6. Slide the Water Panel evaporator (5) out from the scale control insert (3) and dispose of the Water Panel. Clean the scale control insert of mineral deposits. Replace the Water Panel evaporator (Stock No. 35) with a Genuine Aprilaire Water Panel. Slide the Water Panel back into the scale control insert (3) and snap the distribution tray cover (4) into the distribution tray (2). Then snap the distribution tray back into the scale control insert.
7. Inspect the plastic feed tube by gently flexing it and looking for cracks or signs of wear. Replace tube if it is cracked, brittle or has been damaged.
8. Remove the drain line from the bottom of the humidifier and flex it to loosen any mineral deposits or blockage. Then flush it with water under pressure. If it does not properly clear, replace it. Slip the drain line back onto the drain fitting (6). Make sure the drain line has a constant downward slope and is not flattened or blocked.
9. Reinstall Water Panel evaporative assembly (9) and intake grille (1).
10. Reconnect electrical power (7) and turn on water supply.
11. Turn up Manual Humidifier Control and check system operation.
12. Set Manual Humidifier Control to its original position.

REQUIRED MAINTENANCE INSTRUCTIONS (APRILAIRE HUMIDIFIER MODELS 400M & 400D)

⚠ CAUTION

Sudden operation may cause personal injury. Turn Humidifier Control to "OFF" or low position before servicing.



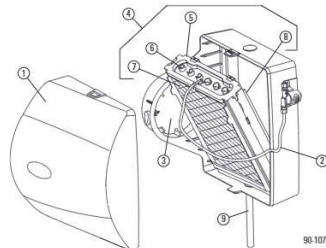
1. Note Humidifier Control setting and turn dial to the "OFF" position.
2. Turn off water supply. Turn the integral bypass damper (3) to the "OFF" position.
3. Press the tabs in the latches on the top and bottom of the front cover (1).
4. Carefully pull the plastic feed tube (2) out of the Water Panel evaporative assembly (4). Tip the Water Panel evaporative assembly (4) to avoid over-bending the water level sensor assembly (12).
5. Unsnap the distribution tray (5) from the scale control insert (8). Clean the tray of mineral deposits, being careful not to stretch or tear the synthetic fabric liner. Soaking the tray in vinegar or a lime-removing agent is helpful when trying to remove stubborn mineral deposits.
6. Slide the used Water Panel evaporator (7) out of the Water Panel.
7. Remove the float cover (10) and inspect the floats. Remove deposits as needed from floats, float cover and float chamber. Reassemble the floats and float cover through openings in float cover and that floats may be damaged.
8. Inspect the plastic feed tube (2) by gently flexing it and looking for cracks or signs of wear. Replace tube if it is cracked, brittle, or has been damaged.
9. Slide a new Aprilaire No. 45 Water Panel (part No. 45) into the scale control insert (8). Snap the distribution tray (5) back into the scale control insert (8).
10. Reinstall the Water Panel evaporative assembly (4) into the humidifier housing (8). Push the top of the assembly into place.
11. Push the end of the feed tube back firmly into the Water Panel evaporative assembly (4).
12. Under normal operation the overflow drain line (9) should be free of mineral deposits and replace if necessary. Make sure the drain line is not flattened or blocked.
13. Turn on the water supply. Return integral bypass damper (3) to the "ON" position.
14. Check system operation:
 - Manual Humidifier Control (Model 400M):** Control and check system operation.
 - Automatic Digital Humidifier Control (Model 400D):** operation and reset Change Water Panel indicator blower operating and HVAC calling for heat, humidity, or cooling. TEST MODE AS HUMIDIFIER WILL NOT OPERATE.
15. Set Humidifier Control to its original position.

REQUIRED MAINTENANCE INSTRUCTIONS (APRILAIRE HUMIDIFIER MODELS 500, 500M, 600 & 600M)

⚠ CAUTION

Sudden operation may cause personal injury or property damage.
Turn Humidifier Control to "OFF" or lowest setting before servicing.

1. Front Cover
2. Feed Tube
3. Integral Bypass Damper
4. Water Panel Evaporative Assembly
5. Distribution Tray
6. "V" Notches
7. Water Panel Evaporator
8. Scale Control Insert
9. Drain Line



1. Note Humidifier Control setting and turn dial to the "OFF" position.
2. Turn off water supply. Turn the integral bypass damper (3) to the SUMMER position.
3. Press the tabs in the latches on the top and bottom of front cover (1) and pull cover off base with both hands. Set aside.
4. Carefully pull the plastic feed tube (2) out of the distribution tray (5) at the top of the Water Panel evaporative assembly (4). Pull this assembly out by grasping at top and tipping out.
5. Unsnap the distribution tray (5) from the scale control insert (8). Lightly scrape out or brush off any mineral deposits, being careful not to stretch or loosen the synthetic fabric liner. Soaking the tray in vinegar or a lime-removing agent is helpful when trying to remove stubborn mineral deposits.
6. Slide the Water Panel evaporator (7) out from the scale control insert (8) and dispose of the Water Panel. Clean the scale control insert of mineral deposits. Replace the Water Panel evaporator (Stock No. 35 for Models 600 & 600M and Stock No. 10 for Models 500 & 500M) with a new Genuine Aprilaire Water Panel. Slide the Water Panel evaporator back into the scale control insert with the colored spot up and snap the distribution tray (5) back into place.
7. Inspect the plastic feed tube (2) by gently flexing it and looking for cracks or signs of wear. Replace tube if it is cracked, brittle, or has been damaged.
8. Reinstall the Water Panel evaporative assembly (4) into the humidifier by fitting its drain into the round receptacle at the base of the humidifier. Push the assembly in at the top until it snaps into place. Push the end of the feed tube back firmly into the distribution tray and replace the front cover.
9. Remove the drain line (9) from the bottom of the humidifier. If applicable, flex it to loosen any mineral deposits or blockage. Then flush it with water under pressure. If it does not properly clear, replace it. Slip drain line back onto the drain fitting. Make sure the drain line has a constant downward slope and is not flattened or blocked.
10. Turn on the water supply. Return integral bypass damper to appropriate position.
11. Check system operation:
Manual Humidifier Control (Models 500M & 600M): With the HVAC blower operating, turn up Humidifier Control and check system operation.
Digital Humidifier Control (Models 500 & 600): (Automatic or Manual mode) Check system operation and reset Change Water Panel indicator by setting the knob to "Test/Reset". With HVAC blower operating and HVAC calling for heat, humidifier will operate for one minute. DO NOT LEAVE IN TEST MODE AS HUMIDIFIER WILL NOT OPERATE.
12. Set Humidifier Control to its original position.

REQUIRED MAINTENANCE INSTRUCTIONS (APRILAIRE HUMIDIFIER MODEL 700M)

⚠ WARNING

ELECTRICAL SHOCK HAZARD. Can cause personal injury or property damage. Disconnect electrical power supplies before servicing. Turn Humidifier Control to "OFF" or lowest setting before servicing.

1. Humidifier Cover Assembly
2. Base Assembly
3. Water Panel Evaporative Assembly
4. Distribution Tray
5. "V" Notches
6. Water Panel Evaporator
7. Scale Control Insert
8. Drain Line
9. Power Cord



1. Note Humidifier Control setting and turn dial to the "OFF" position.
2. Disconnect electrical power and turn off water supply.
3. Unlatch humidifier front cover assembly (1) from base and set aside.
4. Pull out the Water Panel evaporative assembly (4) from the scale control insert (8).
5. Unsnap the distribution tray (4) from the scale control insert (8). Lightly scrape out or brush off any mineral deposits, being careful not to stretch or loosen the synthetic fabric liner. Soaking the tray in lime-removing agent is helpful when trying to remove stubborn mineral deposits.
6. Slide the Water Panel evaporator (6) out from the scale control insert (8) and dispose of the Water Panel. Clean the scale control insert of mineral deposits. Replace the Water Panel evaporator (Stock No. 35 for Models 600 & 600M and Stock No. 10 for Models 500 & 500M) with a new Genuine Aprilaire Water Panel. Slide the Water Panel evaporator back into the scale control insert with the colored spot up and snap the distribution tray (4) back into place.
7. Inspect the plastic feed tube by gently flexing it and looking for cracks or signs of wear. Replace tube if it is cracked, brittle, or has been damaged.
8. Reinstall the Water Panel evaporative assembly (4) into the humidifier by fitting its drain into the round receptacle at the base of the humidifier. Push the assembly in at the top until it snaps into place. Push the end of the feed tube back firmly into the distribution tray and replace the front cover.
9. Remove the drain line (8) from the bottom of the humidifier. If applicable, flex it to loosen any mineral deposits or blockage. Then flush it with water under pressure. If it does not properly clear, replace it. Slip drain line back onto the drain fitting. Make sure the drain line has a constant downward slope and is not flattened or blocked.
10. Reinstall front cover assembly (1) by hooking at bottom.
11. Reconnect electrical power (9) and turn on the HVAC blower.
12. Check system operation:
Manual Humidifier Control (Model 700M): With the HVAC blower operating, turn up Humidifier Control and check system operation.
Digital Humidifier Control (Model 700): (Automatic or Manual mode) Check system operation and reset Change Water Panel indicator by setting the knob to "Test/Reset". With HVAC blower operating and HVAC calling for heat, humidifier will operate for one minute. DO NOT LEAVE IN TEST MODE AS HUMIDIFIER WILL NOT OPERATE.
13. Set Humidifier Control to its original position.

NOTE: The motor is permanently lubricated and does not require oiling.

LIMITED WARRANTY

Your Research Products Corporation Aprilaire® humidifier unit is expressly warranted for five (5) years from date of installation to be free from defects in materials or workmanship except, however, for the disposable Water Panel which will have to be replaced from time to time depending upon the amount of use.

Research Products Corporation's exclusive obligation under this warranty shall be to supply, without charge, a replacement for any part of the humidifier which is found to be defective within such five (5) year period and which is returned not later than thirty (30) days after said five (5) year period by you to either your original supplier or to Research Products Corporation, Madison, Wisconsin 53701, together with the model number and installation date of the humidifier.

THIS WARRANTY SHALL NOT OBLIGATE RESEARCH PRODUCTS CORPORATION FOR ANY LABOR COSTS AND SHALL NOT APPLY TO DEFECTS IN WORKMANSHIP OR MATERIALS FURNISHED BY YOUR INSTALLER AS CONTRASTED TO DEFECTS IN THE HUMIDIFIER ITSELF.

IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE SHALL BE LIMITED IN DURATION TO THE AFORESAID FIVE YEAR PERIOD. RESEARCH PRODUCTS CORPORATION'S LIABILITY FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, OTHER THAN DAMAGES FOR PERSONAL INJURIES, RESULTING FROM ANY BREACH OF THE AFORESAID IMPLIED WARRANTIES OR THE ABOVE LIMITED WARRANTY IS EXPRESSLY EXCLUDED. THIS LIMITED WARRANTY IS VOID IF DEFECT(S) RESULT FROM FAILURE TO HAVE THIS UNIT INSTALLED BY A QUALIFIED HEATING AND AIR CONDITIONING CONTRACTOR. IF THE LIMITED WARRANTY IS VOID DUE TO FAILURE TO USE A QUALIFIED CONTRACTOR, ALL DISCLAIMERS OF IMPLIED WARRANTIES SHALL BE EFFECTIVE UPON INSTALLATION.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages so the above exclusion or limitations may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

WARRANTY REGISTRATION

Visit us on-line at www.aprilaire.com to register your Aprilaire product.

If you do not have on-line access, please mail a postcard with your name, address, phone number, model number of product purchased and date of installation to:

Research Products Corporation, P.O. BOX 1467, Madison, WI 53701

**Your Warranty Registration information
will not be sold or shared outside of this company.**

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