1. Note manual humidifier control setting and turn dial to the "OFF" position.
2. Disconnect electrical power. Turn off water supply.
3. Disconnect: a) 120 volt electrical service b) Copper water supply line (1) and feed tube (2).
4. Drain line, d) 24 volt leads.
5. Turn two swing locks (3), one at either side of lower housing of humidifier flange.
6. Slide off three closure clips (4 & 5) that hold 2 halves of humidifier together.
7. Remove upper half of humidifier. Remove water distribution pan cover (6) and remove any mineral deposits from the "V" notches. DO NOT scrape off granular coating from the bottom. This textured surface helps ensure even water flow for maximum performance. If the granular coating has been removed, place several drops of liquid dishwashing soap on the distribution tray. This will only need to be done once if there is no granular coating.
8. Remove Water Panel evaporator and scale control insert (if used), or directly into the humidifier if insert is not used.
9. Reinstall the Water Panel evaporator 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 in position.
10. Install a new Water Panel evaporator, with colored spot UP, in scale control insert (if used), or directly into the humidifier if insert is not used. IMPORTANT: When installing scale control insert and Water Panel evaporator into the humidifier, the insert spout must discharge directly into the drain.
11. Remove drain line (7) from the bottom of the humidifier. If applicable, flex it to loosen any mineral deposits or blockages. 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.
12. Following Water Panel evaporator replacement and maintenance, reassemble humidifier.
13. Reconnect electrical power.
14. Turn on water supply.
15. Check system operation: With the furnace blower operating, turn up manual humidifier control and check system operation.
16. Set manual humidifier control to its original position.

Note: Humidifier Control setting and turn dial to the "OFF" position.

Aprilaire Model 110
(Serial number 89414 and higher)

No. 10 Water Panel Evaporator Installation

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

Aprilaire / Chippewa
Model 220

1. Note manual humidifier control setting and turn dial to the "OFF" position.
2. Turn off water supply.
3. Remove the three "2" clips (1) that hold the top half of humidifier to furnace plenum.
4. Slide off four closure clips (2 & 3) that hold the two humidifier halves together.
5. Loosen compression fitting (4) on copper feed tube (5) and remove.
6. Remove top screw holding sheet metal ductwork to humidifier.
7. Remove top half of humidifier (lift straight up). Remove water distribution pan cover (6) and remove any mineral deposits from the "V" notches. DO NOT scrape off granular coating from the bottom. This textured surface helps ensure even water flow for maximum performance. If the granular coating has been removed, place several drops of liquid dishwashing soap on the distribution tray. This will only need to be done once if there is no granular coating.
8. Remove Water Panel evaporator and scale control insert (if used).
9. Remove Water Panel evaporator from insert (if used) and clean insert by flexing or using putty knife. If scale control insert is not used, contact your dealer about obtaining one.
10. Install a new Water Panel evaporator, with colored spot UP, in scale control insert (if used), or directly into the humidifier if insert is not used. IMPORTANT: When installing scale control insert and Water Panel evaporator into the humidifier, the insert spout must discharge directly into the drain.
11. Remove drain line (7) from the bottom of the humidifier. If applicable, flex it to loosen any internal mineral deposits or blockages. 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.
12. Following Water Panel evaporator replacement and maintenance, reassemble humidifier.
13. Turn on water supply.
14. Check system operation: With the furnace blower operating, turn up manual humidifier control and check system operation.
15. Set manual humidifier control to its original position.
1. Note Humidifier Control setting and turn dial to the “OFF” position.
2. Turn off water supply. Move the integral bypass damper (10) if present, to the SUMMER position.
3. At the side of the humidifier opposite the airflow duct, pull front cover (1) off holding with both hands and set aside.
4. Carefully pull the feed tube (2) out of the nozzle (3) at the top of the evaporator assembly (4). Pull this assembly out by grasping at top and tipping out.
5. Remove the drain tube (5) from the Water Panel evaporator assembly (4) by unsnap the plastic ends of the scale control insert (8), from the tabs at the end of the tray. Follow the instructions below depending upon the type of distribution tray in your humidifier.

For trays with a synthetic fabric liner: 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 of the scale control insert (8). Clean the scale control insert of mineral deposits. Slide the new Water Panel evaporator 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 evaporator 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 (2) firmly back into the distribution tray (5) and replace the front cover (1).

9. Remove the drain line (9) from the bottom of the humidifier. If applicable, flex it to loosen any mineral deposits or blockages. Then flush it with water under pressure. If it does not properly clear, replace it. Dip 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 (10) to appropriate position.

11. Check system operation:

   **Manual Humidifier Control:** With the furnace blower operating, turn manual humidifier control and check system operation.

   **Automatic Humidifier Control:** (Automatic or Manual model) Check system operation and reset Change Water Panel indicator by turning the knob to “Test/Reset.” With furnace blower operating, humidifier will operate for one minute. **DO NOT LEAVE IN TEST MODE AS HUMIDIFIER WILL NOT OPERATE.** For Controls with Change Water Panel indicator light, turning knob to “Test/Reset” will reset Change Water Panel indicator.

12. Set Humidifier Control to its original position.

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**Water Line Inspection and Service Instructions for all Models**

*The humidifier is equipped with an in-line water strainer. See the following instructions for strainer cleaning.*

1. Disconnect electrical power to the furnace and shut off water supply.
2. Disconnect the water line at the inlet compression nut.
3. Remove the in-line strainer from inside the inlet side of the valve by using a small nail or wire.
4. Flush the in-line strainer clean or replace with a new strainer, Service Department, Part No. 4064.
5. Reconnect the inlet water line. **Double Wrench to Prevent Leaking.**
6. Disconnect the water feed tube at the outlet compression nut.
7. Inspect the water feed tube (plastic only) 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 orifice from the copper or plastic water feed tube and make sure this small opening is unplugged.
9. Replace the orifice with Part No. 4007 (white – Models 110 and 220) or Part No. 4231 (yellow – Models 500, 500A, 500M, 550, 550A and 558) and reconnect the water feed tube. **Double Wrench to Prevent Leaking.**
10. Turn on water supply and reconnect electrical power to the furnace.