HE360 Humidifier Installation Kit

WELCOME

To the comfortable world of humidified air. When you use your Honeywell humidifier, you notice that your skin is not as dry, and that your scratchy throat and irritated nasal passages that aggravate allergies and asthma are steadily improving.

You have also taken the first step in reducing the zapping you create when you walk on your carpet and then touch your TV, computer, metal door knob or your pet. Your furniture and woodwork are also benefitting from the difference that humidified air makes.

Congratulations! You have just made a great investment in improving the comfort of your home.

APPLICATION

This installation kit contains all the parts necessary to install your new Honeywell HE360 Humidifier.

INSTALLATION

Preparing for the Installation

Be sure to identify all the required (Table 1) accessories (included) and make sure the appropriate tools are available before beginning the installation.

Required Accessories (Included)

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Accessory</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Humidifier Parts and Accessories</td>
</tr>
<tr>
<td>20 ft</td>
<td>18 gauge, two-strand thermostat wire (6.2m)</td>
</tr>
<tr>
<td>20 ft</td>
<td>1/4 in. (6.35 mm) OD feed water tubing (6.2m)</td>
</tr>
<tr>
<td>10 ft</td>
<td>1/2 in. (12.7 mm) ID drain tubing (3.1m)</td>
</tr>
<tr>
<td>1 bag</td>
<td>Connecting and mounting hardware:</td>
</tr>
<tr>
<td></td>
<td>- Wire nuts (4)</td>
</tr>
<tr>
<td></td>
<td>- No. 8 sheet metal screws (18)</td>
</tr>
<tr>
<td></td>
<td>- Drain tube clamp</td>
</tr>
<tr>
<td></td>
<td>- Feed tube mounting clamps (6)</td>
</tr>
<tr>
<td></td>
<td>- Brass inserts (2)</td>
</tr>
<tr>
<td></td>
<td>- Plastic compression rings (2)</td>
</tr>
<tr>
<td>1 roll</td>
<td>Duct tape</td>
</tr>
<tr>
<td></td>
<td>Air Pressure Switch and Accessories</td>
</tr>
<tr>
<td>2</td>
<td>Black rubber gasket (M27312)</td>
</tr>
<tr>
<td>2</td>
<td>Tubing Fitting Elbow (M27323)</td>
</tr>
<tr>
<td>1</td>
<td>10 ft. Tubing, 1/4 in. ID</td>
</tr>
</tbody>
</table>
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Required Tools
Tools required for installation include:

• Tin snip.
• Screwdriver.
• Adjustable or open-end wrench.
• Drill, punch or awl.
• Level.
• 3/4-in. Sheet Metal Drill Bit

Determining Best Location for Humidifier
- Select a location for the humidifier on the supply (warm air stream) plenum. See Fig. 1.
- Select a location that cannot damage the air conditioner A-coil during installation.
- Do not locate the humidifier on the furnace body.
- Allow adequate clearance in front of and above the humidifier so you can easily remove the cover to perform routine maintenance.
  — Mount the humidifier at least 3 in. (78 mm) above the furnace body to allow adequate space for the solenoid valve and drain line.
  — Mount the humidifier in a conditioned space to prevent freezing.

Locating Closest Floor Drain
- Select location with access to a floor drain to provide drainage for air conditioner condensation and humidifier drainage.
- If you do not have a drain available, we recommend that you install the Honeywell Whole House Drum or Disk Humidifier. Make sure that the 10 ft (3.1m) of drain tubing is adequate to reach from the humidifier drain connection to the floor drain.

Selecting Location for Humidistat
- Select a location for the humidistat on the return plenum or on the wall in the living space.
  — Mounting on the return plenum is the easiest installation for the control wiring circuit.
- For return duct mounting, the humidistat should be mounted upstream from the humidifier or bypass so that it is properly sensing the relative humidity of the living space. Locate the control at least 8 in. (203 mm) upstream from the humidifier in the return air duct. (See Fig 2.)

Locating Closest 120V Electrical Outlet
- Select location with access to an outlet. If not available, contact an electrician to have one installed.
- Make sure that the humidifier cord is adequate to reach from the humidifier to the outlet.
- Make sure that the 20 ft (6.2m) of thermostat wire is adequate to reach from the humidifier solenoid, to the sail switch, to the humidistat.

INSTALLING HUMIDIFIER

WARNING
Hazardous Voltage
Can cause personal injury or equipment damage.
Do not cut or drill into any air conditioning or electrical accessory.

CAUTION
Sharp Edges Installation Hazard
Can cause personal injury.
Wear gloves and safety glasses.

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Accessory</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Air Pressure Switch (Fig. 7)</td>
</tr>
<tr>
<td>2</td>
<td>Screws, #8 x 3/4 in. sheet metal</td>
</tr>
</tbody>
</table>
1. Turn off power to the air handling system at the circuit breaker.
2. Draw a level line on the plenum in the location chosen for the humidifier. (Leveling assures optimal humidifier performance.)
3. Locate the template in the Humidifier Installation Instructions.
4. Tape the template in position and trace around the template.
5. Remove the template and carefully cut the rectangular opening.
6. Disassemble the humidifier; remove the cover and take out the humidifier pad assembly. See Fig. 3.
7. Make sure the humidifier housing is level, then position it in the opening so the plastic tabs are in place on the lower sheet metal edge of the opening. Use pliers, as necessary, to flatten cut edges. See Fig. 4.
8. Secure the humidifier housing to the opening at the top and bottom using sheet metal screws.
9. Reinstall the humidifier pad assembly in the humidifier housing.

**IMPORTANT**
Be sure to reconnect the water feed tube and ensure that the tube is not pinched or kinked.
10. Hinge the cover in place and secure with the thumbscrew located at the bottom of the cover.

### Connecting the Plumbing

1. Shut off the water.

**CAUTION**
Chemical Hazard. Can cause personal injury or equipment damage. Do not use any line connected to an air conditioner. Do not use gas line.

2. First, connect 1/4-in. line to the humidifier’s solenoid valve, located at the bottom of the humidifier.
   a. Remove the compression nut.
   b. Discard the brass ring, replacing it with the plastic ring.
   c. Install the brass insert into the end of the tubing.
   d. Insert the tubing into the solenoid valve fitting and support the valve while tightening the compression nut.

**NOTE:** Do not over-tighten the compression nut. Moderate tightness prevents leaking.

3. Use the saddle valve (included) to tap into the water supply line at the location selected. See Fig. 8. If tapping into galvanized pipe, drain line and pre-drill 3/17-in. tap for saddle valve.

**NOTE:** The saddle valve is not designed to regulate water flow. The valve is either open or closed.

**IMPORTANT**
To prevent debris from clogging the solenoid inline filter, be sure to install the saddle valve handle pointing toward the ceiling.

4. Use 1/4-in. (6mm) OD tubing and connect the saddle valve to the inlet side of the solenoid valve on the humidifier (See Fig. 9).
5. Repeat step 2, a - d for saddle valve fitting.
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NOTE: Cut tubing to correct length so the tubing terminates at the drain.

Air Pressure Switch Installation

IMPORTANT
Do not install the switch in an area where temperature exceeds rating of -40°F to 190°F (-40°C to 88°C)

1. Disconnect power from the humidifier before installing.
2. Mount the switch vertically with pressure connectors facing down, using provided self-tapping screws to secure the switch to the duct.

IMPORTANT
Calibration accuracy requires that the switch be mounted vertically (as pictured in Fig. 7).

3. The return duct is recommended, however the switch can also be mounted to the supply duct.

You may cut the tubing to fit the connection length between the tubing fitting elbow and switch. It is also

Fig. 6. Installing the drain tubing.

Fig. 7. Pressure switch—oriented vertically.

Fig. 8. Mounting the pressure switch.

Fig. 9. Install tubing.
recommended to secure the hose to existing structures to avoid accidental disconnection.

**Installing Humidistat**

**Mounting Duct**

1. Apply the template to the duct location chosen for the humidistat. Make sure the template is level before drilling the holes.
2. Refer to the template (provided with the H8908 Humidistat Installation Instructions) to drill the control assembly opening and mounting holes for the H8908.
3. Remove the H8908 case from the base.
4. Position the foam gasket on the H8908 base.
5. Position the base on the duct with the arrow up.
6. Secure the base to the duct using the four 1 in. (25 mm) mounting screws provided with humidistat.
7. Connect the low-voltage wires to the leads and replace the H8908 case. See Fig. 11.

**NOTE:** For wall mounting instructions, see the H8908 Installation Instructions.

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**IMPORTANT**

All wiring must comply with applicable local code, ordinances and regulations.

Wire the humidifier solenoid valve, pressure switch, humidistat and transformer. See Fig. 12.

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**WIRING**

**CAUTION**

Hazardous Voltage. Can cause personal injury or equipment damage. Disconnect power supply before installing or servicing equipment.

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**NOTE:** Humidistat and pressure switch can be wired in any order.

1. Run the two-strand thermostat wire from the humidifier to the humidistat, and from the humidistat to the pressure switch and back to complete the wiring loop to the humidifier.
2. Cut lengths of thermostat wire to reach between components, leaving adequate wire at both ends for connections.
3. At the humidifier, connect the black and white conductors to the two yellow humidifier wires. (The red wires from the humidifier are not used.)
4. At the humidistat, connect both black conductors to the two humidistat terminals. Use a wire nut to connect together the two white conductors.
TESTING HUMIDIFIER OPERATION

Checklist
- Humidifier is level.
- Control wiring was reviewed using circuit diagram.
- Humidifier is plugged in.
- Feed line has no kinks.
- Drain line slopes continuously down and ends at floor drain.
- Water hose inside humidifier is connected to PerfectFlow™ water distribution tray.

After installation use the following steps to check the humidifier operation:
1. Turn on the power and the water supply
2. Turn the H8908 Humidity Control to On and turn on the heat by setting the thermostat to 10°F (6°C) above room temperature.

**IMPORTANT**
The furnace blower must be on to activate the humidifier.

3. Make sure that water is flowing out of the drain hose. If water does not flow, see Troubleshooting Your Humidifier section.
4. Check for leaks.
5. Reset the thermostat and H8908 Humidity Control to a comfortable setting for automatic operation.
# TROUBLESHOOTING YOUR HUMIDIFIER (TABLE 2)

## Table 2. Troubleshooting Humidifier.

<table>
<thead>
<tr>
<th>Problem</th>
<th>What to look for</th>
<th>What to do</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water leakage</td>
<td>Leaking joints.</td>
<td>Shut off water. Tighten connections.</td>
</tr>
<tr>
<td></td>
<td>Brass tubing inserts</td>
<td>Verify that brass tubing inserts are used.</td>
</tr>
<tr>
<td></td>
<td>Saddle valve leaking.</td>
<td>Verify rubber pad is installed on saddle valve.</td>
</tr>
<tr>
<td>No water to drain.</td>
<td>Electrical</td>
<td>Verify control circuit wiring. Check all connections.</td>
</tr>
<tr>
<td></td>
<td>Humidistat</td>
<td>Turn humidistat up and down and listen for contact to click.</td>
</tr>
<tr>
<td></td>
<td>Humidifier power</td>
<td>Verify that outlet has power.</td>
</tr>
<tr>
<td></td>
<td>Solenoid</td>
<td>After verifying other wiring components, turn on furnace fan, turn humidistat up and down, and listen for solenoid to click.</td>
</tr>
<tr>
<td>Plumbing</td>
<td>Saddle valve</td>
<td>Verify that needle pierces water line and then backs out needle to open valve.</td>
</tr>
<tr>
<td></td>
<td>Humidifier</td>
<td>Remove cover and verify that water flows into distribution tray.</td>
</tr>
<tr>
<td></td>
<td>Drain tubing</td>
<td>Verify no obstructions.</td>
</tr>
</tbody>
</table>

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