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## GEO-LENNOX HCWB3-17

# Lennox Healthy Climate HCWB3-17 Bypass Humidifier

MODEL: HCWB3-17

Brand: GEO-LENNOX

## 1. INTRODUCTION

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The Lennox Healthy Climate HCWB3-17 Bypass Humidifier is designed to integrate with your home's heating system to provide effective whole-house humidity control. This system adds moisture to the air, which is then circulated throughout your home by the furnace or air handler fan. Maintaining optimal humidity levels can enhance comfort, reduce issues associated with dry air such as skin irritation and respiratory problems, and help preserve your home's furnishings by minimizing wood warping and cracking.

This humidifier is capable of humidifying up to 17 gallons of water per day and features a manual humidistat for precise control over your home's humidity levels.

## 2. SAFETY INFORMATION

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Please read all instructions carefully before installation or operation. Failure to follow these instructions could result in property damage, personal injury, or death.

- **Electrical Safety:** Ensure the power supply to the HVAC system is disconnected before performing any installation or maintenance. The unit operates on 24 Volts AC.
- **Water Connections:** All water connections must be secure to prevent leaks. Use appropriate plumbing materials and techniques.
- **Professional Installation:** Due to the nature of whole-house humidifiers and their integration with HVAC systems, professional installation by a qualified technician is highly recommended.
- **Maintenance:** Regular maintenance is crucial for safe and efficient operation. Refer to the Maintenance section for details.
- **Children and Pets:** Keep children and pets away from the unit during operation and maintenance.

## 3. PRODUCT OVERVIEW

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The Lennox Healthy Climate HCWB3-17 is a bypass-style whole-house humidifier. It consists of the main humidifier unit and a separate manual humidistat control.



Figure 3.1: Lennox Healthy Climate HCWB3-17 Bypass Humidifier with Manual Control.

This image displays the Lennox Healthy Climate HCWB3-17 Bypass Humidifier. The main unit is a grey, rectangular device with a circular duct connection on the left side, labeled for 'WINTER' and 'SUMMER' operation. A small black nozzle is visible on the front-right side, which is typically for water drainage. Below the main unit, a separate white control module, labeled 'HUMIDIFIER CONTROL', features a dial for adjusting humidity levels and indicators for outdoor temperature to guide humidity settings.

### Key Components:

- **Humidifier Unit:** The main housing containing the water panel (wick) and water distribution system. It connects to both the supply and return air ducts of your HVAC system.
- **Bypass Duct Connection:** Allows air to flow from the supply duct, through the humidifier, and back into the return duct. Features a damper for seasonal adjustment (Winter/Summer).
- **Manual Humidistat Control:** A wall-mounted or duct-mounted control that allows you to set the desired humidity level manually. It often includes a dial and a guide for recommended humidity based on outdoor temperature.
- **Water Supply Line:** Connects the humidifier to your home's water supply.
- **Drain Line:** Carries away excess water and mineral deposits from the humidifier.

## 4. SETUP AND INSTALLATION

Installation of the Lennox Healthy Climate HCWB3-17 Bypass Humidifier requires connection to your existing HVAC ductwork, water supply, and drainage system, as well as electrical wiring (24VAC). Due to the complexity and the need for

proper integration with your heating and cooling system, **professional installation is strongly recommended**

## General Installation Steps (for reference, consult professional installer):

1. **Location Selection:** Choose a suitable location on the return or supply air duct, ensuring adequate space for the unit and access for maintenance.
2. **Ductwork Connection:** Cut openings in the ductwork and install the humidifier unit and bypass duct. Ensure the bypass damper is correctly oriented.
3. **Water Supply Connection:** Connect the humidifier to a cold water supply line using appropriate plumbing fittings. An inline saddle valve or tee fitting is typically used.
4. **Drain Line Connection:** Route a drain line from the humidifier to a suitable floor drain or utility sink, ensuring a continuous downward slope for proper drainage.
5. **Electrical Wiring:** Wire the humidifier to the 24VAC control circuit of your furnace or a dedicated 24VAC transformer, following the wiring diagram provided with the unit. Connect the manual humidistat control.
6. **Testing:** After installation, test the unit for proper operation and check for any water leaks.

**Unit Dimensions:** The product dimensions are approximately 10.5 inches (Depth) x 9.5 inches (Width) x 15.88 inches (Height).

## 5. OPERATING INSTRUCTIONS

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The Lennox Healthy Climate HCWB3-17 features a manual humidistat for controlling the humidity levels in your home. The humidifier operates when the humidistat calls for humidity and the furnace fan is running.

### Setting the Humidity Level:

1. **Locate the Humidistat:** The manual humidistat control is typically mounted on a wall in a central living area or on the return air duct.
2. **Adjust the Dial:** Rotate the dial on the humidistat to your desired humidity percentage. Common settings range from 25% to 45%.
3. **Consider Outdoor Temperature:** The humidistat often includes a guide that suggests optimal indoor humidity levels based on the outdoor temperature. In colder weather, it is generally recommended to set a lower humidity level to prevent condensation on windows and other surfaces. For example:
  - Outside Temp 20°F (-7°C) or below: Set to 25-30%
  - Outside Temp 0°F (-18°C) to 20°F (-7°C): Set to 30-35%
  - Outside Temp 0°F (-18°C) or above: Set to 35-40%
4. **Seasonal Damper:** Ensure the bypass damper on the humidifier unit is set to the "WINTER" position for humidification during heating season and "SUMMER" position when humidification is not desired (e.g., during cooling season).

The humidifier will automatically turn on and off to maintain the set humidity level as long as the furnace fan is operating and the humidistat calls for humidity.

## 6. MAINTENANCE

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While the Lennox Healthy Climate HCWB3-17 is designed for ease of use and does not require constant filling, regular maintenance is essential to ensure efficient operation and longevity. The primary maintenance task involves replacing the water panel (also known as the wick or evaporator pad).

### Recommended Maintenance Schedule:

- **Monthly (during heating season):**
  - Visually inspect the water panel for mineral buildup.
  - Check the drain line for obstructions and ensure it is draining properly.
- **Annually (before heating season or every 1-3 months depending on water hardness):**
  - **Replace the Water Panel:** The water panel collects mineral deposits from the water. A clogged or heavily scaled water panel will reduce the humidifier's efficiency. Replace it with a genuine Lennox Healthy Climate replacement water panel.
  - Clean the humidifier's water distribution tray and reservoir to remove any mineral deposits or sludge.
  - Inspect all water connections for leaks.
  - Ensure the bypass damper moves freely and is set correctly for the season.

**Note:** Always turn off the power to the furnace and humidifier before performing any maintenance.

## 7. TROUBLESHOOTING

This section provides basic troubleshooting steps for common issues. For more complex problems, contact a qualified HVAC technician.

Problem	Possible Cause	Solution
Humidifier not producing humidity	<ul style="list-style-type: none"> <li>No power to the unit.</li> <li>Humidistat set too low or not calling for humidity.</li> <li>Furnace fan not running.</li> <li>Water supply turned off or clogged.</li> <li>Water panel is dry or clogged.</li> <li>Bypass damper in "SUMMER" position.</li> </ul>	<ul style="list-style-type: none"> <li>Check electrical connections and furnace power.</li> <li>Increase humidistat setting.</li> <li>Ensure furnace fan is set to "ON" or "AUTO" and operating.</li> <li>Check water supply valve and line for blockages.</li> <li>Inspect and replace water panel if necessary.</li> <li>Set bypass damper to "WINTER" position.</li> </ul>
Water leaks from unit or drain line	<ul style="list-style-type: none"> <li>Loose water connections.</li> <li>Clogged drain line.</li> <li>Improper installation.</li> </ul>	<ul style="list-style-type: none"> <li>Tighten all water supply and drain line connections.</li> <li>Clear any obstructions from the drain line.</li> <li>Contact a professional for inspection and correction.</li> </ul>
Excessive condensation on windows	<ul style="list-style-type: none"> <li>Humidity level set too high for outdoor temperature.</li> </ul>	<ul style="list-style-type: none"> <li>Lower the humidistat setting, especially during cold weather.</li> </ul>

## 8. SPECIFICATIONS

Key technical specifications for the Lennox Healthy Climate HCWB3-17 Bypass Humidifier:

Feature	Detail
Brand	GEO-LENNOX
Model Name / Number	HCWB3-17 / Y2786

Feature	Detail
Humidification Capacity	17 Gallons Per Day (GPD)
Operation Mode	Manual (via humidistat)
Voltage	24 Volts AC
Amperage	0.5 Amps
Filter Type	Wick (Water Panel)
Product Dimensions (D x W x H)	10.5" x 9.5" x 15.88"
Recommended Coverage Area	Up to 3200 Square Feet
Room Type	Whole House

## 9. WARRANTY AND SUPPORT

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For specific warranty information regarding your Lennox Healthy Climate HCWB3-17 Bypass Humidifier, please refer to the documentation provided at the time of purchase or contact GEO-LENNOX directly. Warranty terms typically cover manufacturing defects and may vary based on region and installer.

For technical support, replacement parts, or professional service, it is recommended to contact your installing HVAC contractor or an authorized GEO-LENNOX dealer.