GEO-LENNOX HCWB3-17A

Lennox Healthy Climate HCWB3-17A By-Pass Humidifier User Manual

Model: HCWB3-17A | Brand: GEO-LENNOX

1. Introduction

This manual provides essential information for the installation, operation, and maintenance of your Lennox Healthy Climate HCWB3-17A By-Pass Humidifier. Please read these instructions thoroughly before attempting to install or operate the unit to ensure safe and efficient performance. Proper installation and regular maintenance are crucial for optimal functionality and longevity of the humidifier.

2. Product Overview

The Lennox Healthy Climate HCWB3-17A is a by-pass humidifier designed to integrate with your home's heating system. It effectively adds moisture to the air, which is then circulated throughout your home by the furnace or air handler fan. This process helps maintain optimal indoor humidity levels, especially during heating seasons, mitigating issues associated with dry air such as skin irritation, sore throats, and potential damage to wood furnishings.

Key features include:

- **By-Pass Design:** Works in conjunction with your existing HVAC system.
- **Automatic Control:** Available with automatic control to precisely manage room relative humidity.
- **Horizontal Mounting:** Can be horizontally mounted on a wall or duct.
- **Capacity:** Capable of delivering up to 17 gallons of moisture per day.



Image 1: The Lennox Healthy Climate HCWB3-17A By-Pass Humidifier unit, shown in grey, with its separate white automatic control panel. The humidifier features a circular duct connection on the left side and a water connection point on the front right.

3. Specifications

Feature	Detail
Brand	GEO-LENNOX
Model Name	HCWB3-17A
Part Number	HCWB3-17A / Y2787
Product Dimensions (D x W x H)	10.5" x 9.5" x 15.88"
Item Weight	10 pounds
Voltage	24 Volts (AC)
Amperage	0.5 Amps
Humidification Capacity	17 Gallons Per Day (GPD)

Feature	Detail
Recommended Coverage Area	Up to 3200 Square Feet
Operation Mode	Automatic and Manual
Special Feature	Automatic Control, Humidistat
Color	Grey
UPC	732003267301

4. Setup and Installation

The Lennox Healthy Climate HCWB3-17A By-Pass Humidifier is designed for integration with your home's central heating and cooling system. Due to the complexity of HVAC system modifications and electrical connections, **professional installation by a qualified HVAC technician is strongly recommended**. Incorrect installation can lead to improper operation, system damage, or safety hazards.

General installation considerations include:

- **Location:** The unit can be horizontally mounted on either the supply or return air ductwork, or on a wall near the ductwork.
- **Duct Connection:** Requires connection to the ductwork to facilitate air bypass.
- **Water Supply:** Connection to a potable water supply is necessary.
- **Drainage:** A drain connection is required for excess water.
- **Electrical Connection:** The unit operates on 24VAC and requires proper wiring to the HVAC system and the automatic control.

Refer to the detailed installation instructions provided with the physical product for specific wiring diagrams, mounting templates, and plumbing requirements.

5. Operating Instructions

The HCWB3-17A humidifier features an automatic control (humidistat) to maintain desired humidity levels. Once properly installed and connected, operation is straightforward:

1. **Power On:** Ensure your HVAC system is operational and the humidifier's power supply is active.
2. **Set Desired Humidity:** Locate the automatic control panel (humidistat). Rotate the dial to your desired relative humidity percentage. Common settings range from 25% to 45%, depending on outdoor temperature and personal comfort.
3. **Automatic Operation:** The humidifier will automatically activate when the humidity level in your home falls below the set point and your heating system is running. It will deactivate once the desired humidity is reached.
4. **Seasonal Adjustment:** It is often recommended to lower the humidity setting during colder outdoor temperatures to prevent condensation on windows and other surfaces. The control panel may include guidelines for adjusting humidity based on outdoor temperature.

The humidifier adds moisture to the air, and the fan inside the furnace or air handler circulates the humidified air to every room. This ensures consistent humidity distribution throughout your living space.

6. Maintenance

Regular maintenance ensures the efficient and hygienic operation of your humidifier. Perform the following checks periodically:

- **Power Off:** Always disconnect power to the humidifier and the HVAC system before performing any maintenance.
- **Evaporator Pad Replacement:** The humidifier uses an evaporator pad (also known as a water panel or filter). This pad should be inspected monthly during the heating season and replaced at least once per heating season, or more frequently in areas with hard water. Refer to your product's specific instructions for pad replacement.
- **Cleaning:** Periodically clean the humidifier's water distribution tray, drain pan, and other components to prevent mineral buildup and mold growth. Use a mild detergent and water, rinsing thoroughly.
- **Water Line Inspection:** Check the water supply line and drain line for any leaks, kinks, or blockages.
- **Seasonal Shut-down:** At the end of the heating season, turn off the water supply to the humidifier, drain the unit, and replace the evaporator pad. Ensure the unit is clean and dry before storing or leaving it dormant until the next heating season.

7. Troubleshooting

If your humidifier is not operating as expected, consider the following common issues and solutions:

- **No Humidity Output:**
  - Ensure the humidifier is powered on and the humidistat is set to a desired humidity level above the current room humidity.
  - Verify the water supply valve is open.
  - Check if the evaporator pad is installed correctly and not clogged.
  - Confirm the furnace fan is operating. The humidifier typically only runs when the fan is on.
- **Excessive Humidity/Condensation:**
  - Lower the humidistat setting.
  - Consider outdoor temperature; reduce humidity settings during very cold weather.
- **Water Leaks:**
  - Check all water connections for tightness.
  - Inspect the drain line for blockages or kinks.
  - Ensure the unit is level.
- **Unusual Noises:**
  - Verify all internal components are securely in place.
  - Check for mineral buildup that might be causing rattling.

If troubleshooting steps do not resolve the issue, contact a qualified HVAC technician for assistance.

8. Warranty and Support

For information regarding the product warranty, please refer to the warranty documentation included with your purchase or contact GEO-LENNOX customer support directly. Keep your proof of purchase for warranty claims.

For technical support, parts, or service inquiries, please contact GEO-LENNOX customer service or your authorized dealer. Provide your model number (HCWB3-17A) and serial number (if applicable) when seeking support.

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