This product must be installed by a qualified heating and air conditioning contractor. Failure to do so could result in serious injury from electrical shock. This product must be installed in compliance with all local, state and federal codes.

**WARNING**

1. **ELECTRICAL SHOCK HAZARD.** Can cause injury or death. Disconnect all electrical power supplies before servicing.
2. **RISK OF PROPERTY DAMAGE, INJURY OR DEATH.** Installation, adjustments, alterations, service and maintenance must be performed by your Lennox dealer.
3. **RISK OF SCALDING.** Water temperature over 125°F can cause severe burns and scalding instantly. Shut off the hot water supply before disconnecting or tapping into any hot water supply line.
4. **RISK OF SHARP EDGES HAZARD.** Equipment sharp edges can cause injuries. Avoid grasping equipment edges without protective gloves.

**CAUTION**

RISK OF PROPERTY AND EQUIPMENT DAMAGE.

1. **Water heating system can be damaged if water supply remains off.**
2. **After humidifier installation is completed, turn hot water supply back on.**
3. **Water heating system must be de-energized if the main water supply remains shut off.**
4. **Do not set humidity level above recommended or to recommended level if condensation exists on inside windows of any unheated space, as condensation damage may result. Excess humidity can cause moisture accumulation which can allow the possibility for mold growth in your home.**
5. **Do not install humidifier in location where freezing temperatures may occur. The water line could freeze and crack causing water damage to the home.**
6. **Do not install humidifier or bypass connection on furnace cabinet.**
7. **Do not install humidifier or bypass connection on blower motor wiring. Premature component failure may result.**
8. **Do not connect the transformer to blower motor wiring. Premature component failure may result.**
9. **Do not install humidifier where water pressures exceed 125 psi, since humidifier damage may result. Follow codes in effect concerning pressure reduction.**
10. **Do not install humidifier on systems with temperatures may occur. The water line could freeze and crack causing water damage to the home.**

**SPECIFICATIONS**

**HUMIDIFIER DIMENSIONS**
- Width (including drain spud): 15 3/8”
- Height (including drain spud): 15 3/4”
- Depth: 10 1/4”

**PLENUM OPENING**
- 10”W x 12 3/4”H

**ELECTRICAL DATA**
- 24 VAC-60 Hz, 0.5 AMP
- 3 gph

**RECOMMENDED WIRING DIAGRAMS**

Models HCWB3-17A & HCWB3-17AK

**AUTOMATIC HUMIDIFIER CONTROL**
For detailed Automatic Humidifier Control installation and wiring instructions, see Publication No. 504879M included with Control.

Model HCWB3-17 & HCWB3-17K

**MANUAL HUMIDIFIER CONTROL**
For detailed Manual Humidifier Control installation and wiring instructions, see Publication No. 506070-01 included with Control.

**IMPORTANT**

- Use 120 VAC power source other than furnace motor circuit. However, the transformer can be powered off the hot 120 VAC line before it enters the furnace.
- **DO NOT WIRE TRANSFORMER INTO FURNACE BLOWER CIRCUIT.**

**IMPORTANT** **WHEN CURRENT SENSING RELAY IS USED:**
- **WIRE CURRENT SENSING RELAY INTO 24 VAC HUMIDIFIER CONTROL CIRCUIT ONLY! DO NOT INSTALL IN TRANSFORMER PRIMARY CIRCUIT.**

**WARNING**

Cover on humidifier must be securely in place when blower is operating. Gas fumes, which could contain carbon monoxide, can be drawn into living space resulting in personal injury or death.

**ATTENTION INSTALLER:**

Read complete safety instructions and installation template before starting.

The humidifier can be installed on either the supply or return plenum of a forced air handling system and is easily reversible for installation with right hand or left hand bypass duct connections. The humidifier dimensions and serviceability must be considered when selecting the best location for the humidifier. Here are 2 examples of many types of installations.

**INSTALLATION OPTIONS**

- **Upflow**
- **Horizontal**
1. Remove front cover by pressing center tabs on top and bottom of the cover (1) and base (2). Pull feed tube (3) out of the water distribution tray (4). Tip the evaporative assembly forward and lift it out of the humidifier base. (See Figure 1)

2. The humidifier comes assembled for left side discharge. If converting to right side discharge, the base can be rotated so round collar is facing to the right. Swap the location of the hole plug (10) and drain spud (9) if using a right side discharge. To remove the cap, push and twist from inside the housing while lifting the cap up slightly on the outside. To remove the drain spud, twist and push from the outside of the base.

3. Using a level, position this template at least 3 inches above the furnace housing or cooling coil, if applicable, for clearance of the drain line. Trace around template edges. Remove the template and accurately cut the plenum opening 10"W x 1 23⁄4 “H, length of 6" round duct to the humidifier collar, providing a solid connection. The design of the humidifier collar provides a solid connection with the bypass duct through the use of inside support ribs and pre-formed holes for sheet metal screws. Slip the duct inside the collar of the humidifier, secure the duct to the humidifier collar with two sheet metal mounting screws (not furnished). Support bypass ducts longer than 4 feet to prevent sagging. Seal duct seams and humidifier base with foil tape or mastic.

4. Reinstall the evaporative assembly back into the base, with the bottom of the scale control inserted (9) sitting firmly in the inside of the drain spud (10). Snap into place. If evaporative assembly does not snap into place, reverse the assembly. Push the feed tube back into the water distribution tray. (See Figure 2) Put the front cover back on. If the nameplate (11) is upside down, remove it and rotate the nameplate so it is right side up, and snap back into place. Turn damper handle (8) to the open position “WINTER” for the heating season, or closed position “SUMMER” for the cooling season.

5. Locate and install the Manual Humidifier Control by following the instructions shown in step #7A. For Automatic Humidifier Control installation instructions, see Publication No. 504,879M included with the Automatic Control.

6. Make sure all splices are electrically secure. Insulation on wire should extend to head of splices. Insulation on wire should extend to head of splices. Insulation on wire should extend to head of splices. Insulation on wire should extend to head of splices. Insulation on wire should extend to head of splices.

7. Locating the Manual Humidifier Control

8. The humidifier solenoid valve and Transformer operate on 24 VAC. In order for the humidifier to turn on, the furnace blower must be operating and the Humidifier Control must be calling for humidity. See Humidifier Control manuals for Control wiring.

9. Do not wire transformer into furnace blower circuit. The transformer can be powered from the 120 VAC line before it enters the furnace. The use of service hot water (140°F MAX.) and constant blower operation will provide a direct path of furnace discharge air or drafts from open doors and windows.

10. Do not install Control in the direct path of furnace discharge air or drafts from open doors and windows.

11. Drain spud is designed to accept 1/2" I.D. plastic hose (not furnished). Run drain line from drain spud to floor drain or alternate drain location. CAUTION: If hose clamp is used, do not over tighten, drain spud could crack. Be sure drain line has continuous slope. NOTE: Do not sweat or directly attach metal drain line to fitting. Do not use solvent type adhesive when connecting plastic drain line, since damage to fitting could result.

12. Open saddle valve completely and check for leaks. Turn on blower system. HCBW3-17 & HCBW3-17K – Adjust humidifier setting so that humidifier will turn on. Allow humidifier to run until water is observed coming out of drain line. Check to see if humidifier and saddle valve are watertight. Check operation to make sure that all electrical components function properly. Set Control to recommended level. (See operating instructions in owners manual.)

13. Drainage or bypass damper is not furnished. Drain line from drain spud to floor drain or alternate drain location. CAUTION: If hose clamp is used, do not over tighten, drain spud could crack. Be sure drain line has continuous slope. NOTE: Do not sweat or directly attach metal drain line to fitting. Do not use solvent type adhesive when connecting plastic drain line, since damage to fitting could result.

14. Open saddle valve completely and check for leaks. Turn on blower system. HCBW3-17 & HCBW3-17K – Adjust humidifier setting so that humidifier will turn on. Allow humidifier to run until water is observed coming out of drain line. Check to see if humidifier and saddle valve are watertight. Check operation to make sure that all electrical components function properly. Set Control to recommended level. (See operating instructions in owners manual.)

15. Drain spud is designed to accept 1/2" I.D. plastic hose (not furnished). Run drain line from drain spud to floor drain or alternate drain location. CAUTION: If hose clamp is used, do not over tighten, drain spud could crack. Be sure drain line has continuous slope. NOTE: Do not sweat or directly attach metal drain line to fitting. Do not use solvent type adhesive when connecting plastic drain line, since damage to fitting could result.