DEHUMIDIFIERS



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HEALTHY CLIMATE® DEHUMIDIFIERS

INSTALLATION INSTRUCTIONS FOR HEALTHY CLIMATE® DEHUMIDIFIER MODELS HCWHD5-080, HCWHD5-100 AND HCWHD5-130

READ COMPLETE SAFETY INSTRUCTIONS AND INSTALLATION INSTRUCTIONS BEFORE STARTING

MODELS HCWHDS-080, HCWHDS-100 AND HCWHDS-130

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Safety Instructions

WARNING

ATTENTION INSTALLER:

- Read this manual before installing. Improper installation or maintenance may cause property damage or injury. It is recommended that installation, service, and maintenance be performed by a trained service technician. This product must be installed in compliance with all local, state, and federal codes.
- · All safety precautions must be followed.
- Dispose of properly in accordance with federal or local regulations.

ELECTRIC SHOCK HAZARD:

- 120 volts may cause serious injury from electric shock. Disconnect electrical power to the dehumidifier before starting installation or servicing. Leave power disconnected until installation/service is completed.
- To reduce the risk of electrical shock, this equipment has a grounding-type (three prong) plug. This plug will fit only into a grounding-type power outlet. If the plug does not fit into the outlet, contact qualified personnel to install the proper outlet. Do not alter this plug in any way.
- To reduce the risk of electrical shock, position the product so that the power cord can be plugged into an electrical outlet without the use of an extension cord.

RISK OF FIRE OR EXPLOSION:

- Flammable refrigerant used. Do not puncture refrigerant tubing.
- Store in well ventilated room without continuously operating flames or other potential ignition sources.
- Auxiliary devices which may be ignition sources shall not be installed in duct work.

WARNING

- Sealed Refrigeration System is not field serviceable!
- This appliance contains a mildly flammable A2L refrigerant.
- Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.
- The appliance shall be stored (when not in use) in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or operating electric heater).
- Do not pierce or burn sealed system.
- · Be aware that refrigerants may not contain odor.

A CAUTION

- SHARP EDGES MAY CAUSE INJURY FROM CUTS.
 Use care when cutting plenum openings and handling ductwork. Always wear glasses/goggles and gloves when installing the unit.
- TWO-PERSON LIFT REQUIRED. Dropping may cause personal injury or equipment damage. Handle with care and follow installation instructions.
- This unit is not intended for use by persons (including children) with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the unit by a person responsible for their safety.
- Be sure to supervise children to ensure that they do not play with the unit.
- Be sure to replace a damaged supply cord. It must be replaced by a special cord or assembly available from the manufacturer or its service agent.
- · Never operate electrical equipment in standing water.
- Do not stick your fingers or other objects through the safety grills.
- Do not sit or stand on the unit, or use the unit as a table or shelf.
- The unit is designed to be installed indoors only.
- Always place in well ventilated area to prevent the accumulation of refrigerant in the case of a refrigerant system leak or failure.

NOTICE

EQUIPMENT DAMAGE MAY OCCUR IF INSTALLATION INSTRUCTIONS ARE NOT FOLLOWED.

- Do not use in pool applications. Pool chemicals can damage the dehumidifier.
- Do not use solvents or cleaners on or near the display and circuit board. Chemicals can damage components.
- Wait 24 hours before running the unit if it was not shipped or stored in the upright position.
- Do not use dehumidification to prevent window condensation in the winter. To address window condensation, use ventilation to lower indoor humidity in the winter.

ELECTRICAL INTERFERENCE CAN CAUSE OUTDOOR TEMPERATURE SENSOR INACCURACY.

- Do not run Outdoor Temperature Sensor alongside wires carrying high voltage (120 VAC or higher).
- Do not run Outdoor Temperature Sensor wire lengths greater than 300 feet.

Packaging Content

- Dehumidifier
- Inlet/Outlet Collars
- Literature
 - · Installation instruction
 - Owner's Manual
- · Application Quick Start Guide
- · Parts Bag
 - Screws (9)
 - T20 Torx Bit
- · Barbed fitting for drain connections

Specifications

	Model HCW	/HD5-080	Model HCW	HD5-100	Model HCV	WHD5-130
Unit Dimension	26 x 14	x 15	26 x 14	x 15	30 x 19-1/2 x 18-3/4	
Unit Weight	69 lb	S.	69 lb:	S.	98 I	bs.
Shipping Dimensions	32 x 23-7/8	x 20-1/2	32 x 23-7/8	x 20-1/2	40-5/8 x 24-5/	/8 x 24-13/32
Shipping Weight	81 lb	S.	81 lb:	S.	115	lbs.
Capacity 80°F, 60% RH Conditions	80 pints p @ 185		100 pints p @ 280 0		130 pints @ 310	
Current Draw 115 VAC, Single Phase, 60Hz	4.8A operatii	ng current	6.7A operatir	ng current	7.7A operat	ing current
Dehumidifier Inlet Air Conditions	Dehumidification: 50°F – 104°F, 40°F dew point minimum Ventilation: 40°F – 140°F, 0%RH – 99%RH (non-condensing)					
Filter			MERV 8, v	vashable		
Airflow	External Static Pressure ("w.c.)	Airflow (CFM)	External Static Pressure ("w.c.)	Airflow (CFM)	External Static Pressure ("w.c.)	Airflow (CFM)
	0.0	185	0.0	280	0.0	310
	0.2	135	0.2	245	0.2	270
	0.4*	85	0.4	210	0.4	225
	_	_	0.6*	175	0.6	175
	_	_	_	_	0.7*	160

^{*}Maximum design external static pressure.

NOTE: Rated capacity and current draw measured at 80°F/60% RH inlet conditions at 0.0 external static pressure.

Preparing the Unit for Installation

MIMPORTANT

Cut the strap securing the compressor shipping support bracket and remove the strap and shipping bracket (see **Figure 1**).

- **1.** Clip off and remove the plastic straps securing the compressor to the shipping bracket.
- 2. Remove the two screws securing the shipping bracket to the housing. Remove and discard the shipping bracket, and reinstall the two screws in the dehumidifier.

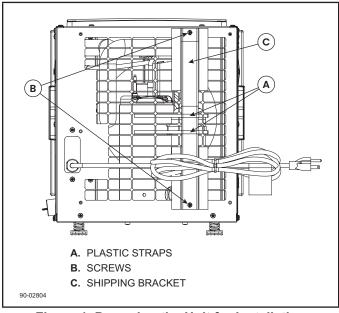


Figure 1. Preparing the Unit for Installation

REPOSITIONING THE USER INTERFACE FOR THE APPLICATION

Locate the onboard user interface (see **Figure 2**) on the top of the dehumidifier or at the front of the dehumidifier if the user interface cannot be seen/accessed in the top orientation. It may also be rotated 180 degrees in either orientation (see **Figure 3**).

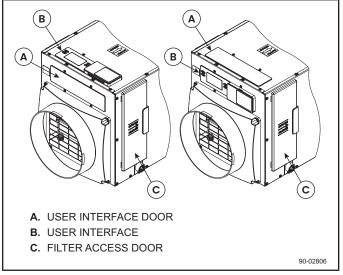


Figure 2. User Interface Location

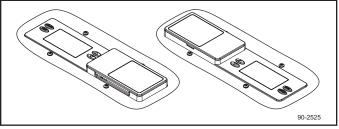


Figure 3. User Interface Rotated 180 Degrees

Moving the Control

- 1. Remove the front user interface door.
- 2. Remove the filter access door and filter.
- **3.** Detach the onboard user interface by removing the four (4) screws around the user interface.

NOTE: Use one hand to support the bottom of the onboard user interface when removing.

- Keep the user interface in the unit and relocate to the front access hole.
- **5.** Secure the user interface with the same four screws used to attach the user interface to the top of the unit.
- 6. Secure the user interface door to the top of the unit.

INSTALLING THE DUCT COLLARS

- Use the screws in the parts bag to attach the duct collars to the inlet and outlet of the dehumidifier. The outlet collar has a backflow damper.
- The outlet duct collar may be attached to the top or end of the unit. Move the outlet cover to the location not being used (see Figure 4).
- Make sure there are no bends in the ductwork coming off the outlet for a minimum of 4". This precaution will ensure that the ductwork will not interfere with the backflow damper function.

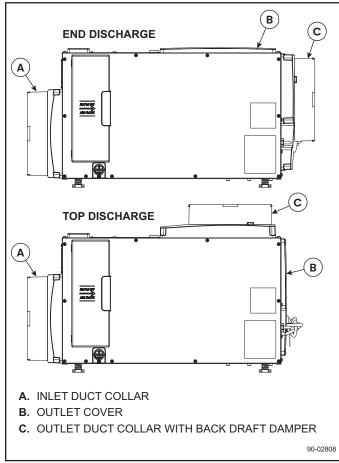


Figure 4. Fully Ducted Installations

Location Considerations

- Allow sufficient clearance for filter removal and to prevent airflow obstruction
- Electrical service access will require the removal of the side panel shown. Allow sufficient space for service on this side of the unit.
- If locating the unit in an attic or crawl space, a Lennox Smart communicating thermostat S40 or E30, M30, CS7500, or a Y6456 Wall-Mount Dehumidifier Control mounted in the living space is recommended.
- For attic installations, it is recommended that the dehumidifier be suspended.
- Always install the dehumidifier in a condensate pan when locating in or over a finished space.

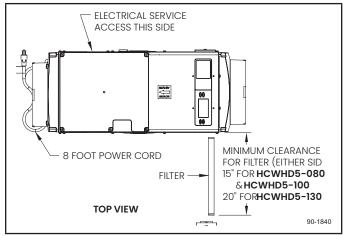


Figure 5. Filter Access Clearance

Suspended Installation

If hanging the unit, use 1/4" (minimum) threaded rod and two unistruts to support the base, just inside the leveling feet. It is recommended that vibration isolators be placed between the unistruts and dehumidifier base. See **Figure 6**. Do not position threaded rods over filter access doors. Allow 3" between the unit and threaded rods on the service access to remove the side panel if service is required. There must be clearance on one side of the unit to allow for removal of the filter.

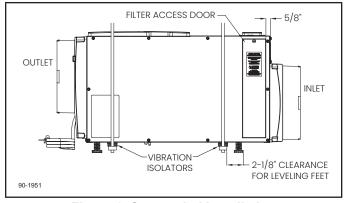


Figure 6. Suspended Installation

Drain Installation - Models HCWHD5-080, HCWHD5-100, and HCWHD5-130

The drain outlet on the dehumidifier can be hard piped using a 3/4" PVC Slip x 3/4" MNPT fitting. Always maintain a constant downward slope from the dehumidifier to the drain.

NOTE: PTFE thread seal tape is recommended for the threaded connection and **hand tighten only**. Drain insert is only applicable for HCWHD5-080 and HCWHD5-100. Remove drain insert before priming and gluing in the PVC fitting. Replace drain insert after PVC glue has finally dried.

A CAUTION

Do not damage drain insert. The drain insert is a critical feature of the dehumidifier drain management system.

WARNING

Running the dehumidifier without the drain insert can lead to condensate leaks. See Figure 7.

The dehumidifier must use a field supplied drain trap. Use Lennox trap Catalog No. 49P66 or 91P90 or any 3/4" PVC SCH 40 P- or J-trap. The trap must have a depth of 2". The use of blocks under the dehumidifier may be necessary to provide clearance. In surface mount installations, a trap depth of two (2) inches may not be available.

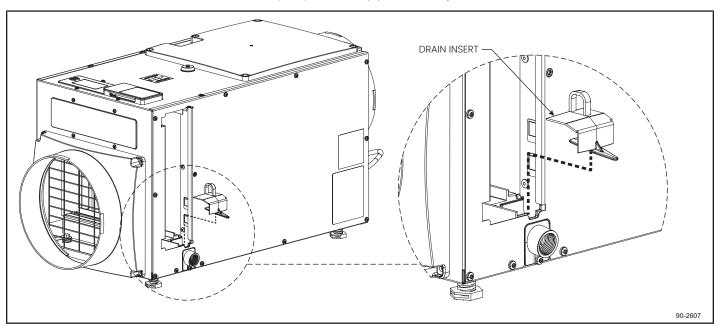


Figure 7. Drain Insert (applicable to models HCWHD5-080 and HCWHD5-100)

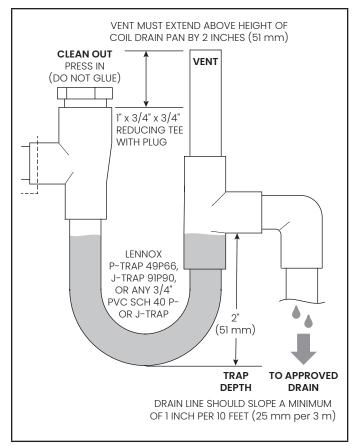


Figure 8. Drain Trap (applicable to all units)

LEVELING

The feet can be adjusted to level the unit, and if required, to accommodate drain fittings and a secondary condensate pan. Leveling is required to ensure proper drainage from the dehumidifier. See **Figure 9 and Figure 9a**.

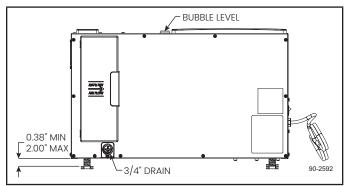


Figure 9. Level the Unit (applicable to HCWHD5-080 and HCWHD5-100)

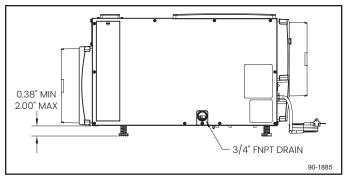


Figure 9a. Level the Unit (applicable to HCWHD5-130 only)

Condensate Pan, Condensate Pump and Float Switch

Always install the dehumidifier in a condensate pan when locating in or above a finished space. Adhere to local codes regarding draining of the condensate pan. If a condensate pump is needed, install it in the condensate pan as well.

Install a condensate overflow safety switch (i.e. float switch) in the condensate pan, remove the factory installed jumper wire between the Float Switch terminals on the control and wire the float switch to the dehumidifier as shown in **Figure 10**. Overflow safety switches on condensate pumps can be wired to the Float Switch terminals in a similar fashion.

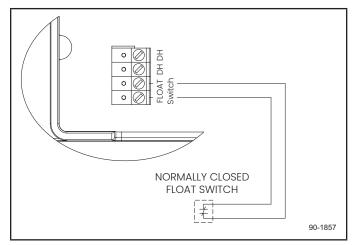


Figure 10. Float Switch Wiring

Ducting to HVAC System – Basement, Attic, and Closet Installations

The **Preferred Installation** is to duct the dehumidifier to pull air from and return dehumidified air to the HVAC return duct. This installation will ensure warm, dehumidified air is thoroughly mixed with the HVAC system air before being discharged into the living space.

The dehumidifier must be wired to turn on the HVAC fan when operating (see page 13).

Required Component

10" Duct

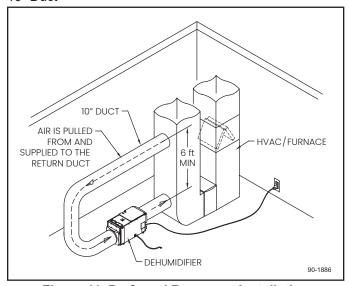


Figure 11. Preferred Basement Installation

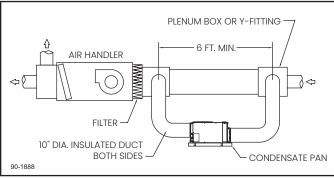


Figure 12. Preferred Attic Installation

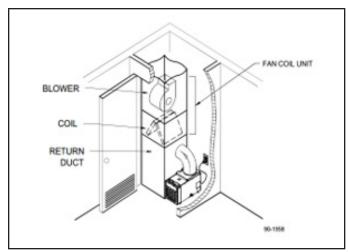


Figure 13. Preferred Closet Installation

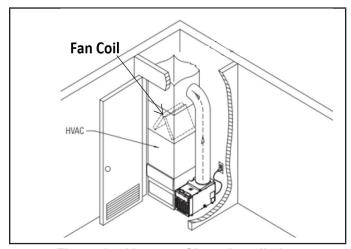


Figure 14. Alternate Closet Installation

Model HCWHD5-130 0.7" w.c. MAX, Model HWCHD5-100 0.6" w.c. MAX, Model HCWHD5-080 0.4" w.c. MAX.

WARNING

Closet installations are not approved with gas furnaces.

WARNING

Only install dehumidifier in a closet with electric heat or a fan coil system if a minimum of 70 cubic feet of volume is available.

Ducting Notes:

- Use insulated duct when the dehumidifier is located in an unconditioned space such as an attic or a garage.
- Use a minimum of 12" of flex duct at the dehumidifier inlet and outlet to prevent vibration noise transmission.
- When ducting return to supply, allow adequate space before the first branch duct to ensure the warm dehumidified air is thoroughly mixed with the HVAC system air.

Ducting for Stand Alone Installations

In this installation the dehumidifier is not ducted to the HVAC system and is used to dehumidify a specific area. This installation is typically in basements or crawl spaces.

Components

10" Duct

Grilles with 10" Duct Collars (optional)

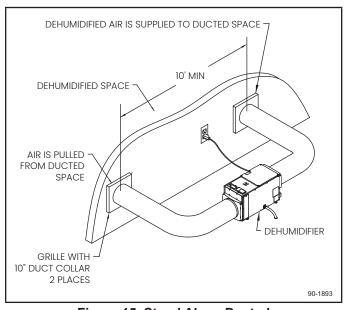


Figure 15. Stand Alone Ducted

Ducting for Two Zone Installations (Not for Lennox® Smart Zoning System)

In this installation the dehumidifier controls the humidity in two separate zones, a Primary and Secondary Zone. The dehumidifier will dehumidify the Primary Zone as the first priority, and will switch to the Secondary Zone after the dehumidification needs of the Primary Zone have been satisfied.

NOTE: Dehumidifier controls will not work with Lennox® Smart Zoning System.

A IMPORTANT

Normally Closed dampers must be installed in the ducts serving the Primary Zone and Normally Open dampers installed in the ducts serving the Secondary Zone.

Required Components
10" Duct and Fittings
Grilles with 10" Duct Collars
Drain Line
Y6451 Zoning Kit: Includes 2 – Y6483 Normally Closed
Dampers, 2 – X4211 Normally Open Dampers and
Y7128 24VAC (40VA) transformer

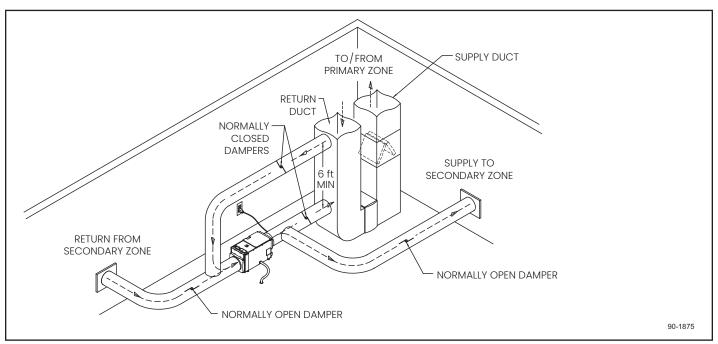


Figure 16. Whole Home as Primary Zone

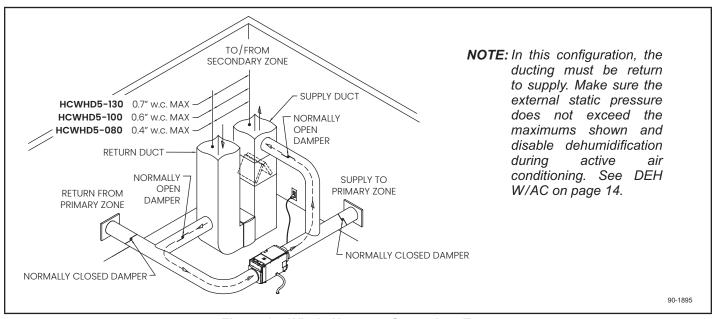


Figure 17. Whole Home as Secondary Zone

Lennox Control

All Lennox thermostats can be used as an external control if used with a SPDT relay. The recommended relay is Catalog No. 69J79. See **Figure 20 & Figure 21** for wiring with SPDT. **NOTE:** The NC NO slide switch should remain in the NO position.

When an external control is enabled, **EXTERNAL** will be displayed on the dehumidifier control. External controls are recommended when the dehumidifier is installed in an attic and is ducted to the HVAC system.

If an external control is used in a zoned application, it must be located in the Primary Zone (refer to **TWO ZONE – PRIMARY AND SECONDARY** zoned installation on page 16 for details).

NOTE: When using an external control, there is a 3 minute delay at start-up or whenever power is cycled to the dehumidifier. As with any configuration, the compressor has a 3-minute minimum on and off time.

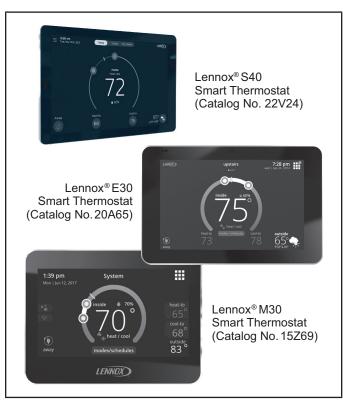


Figure 18. Lennox Communicating Thermostats

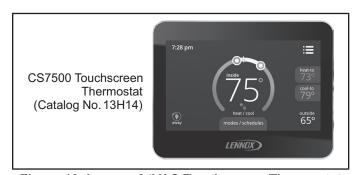


Figure 19. Lennox 24VAC Touchscreen Thermostat

NOTE: All Lennox thermostats use reverse logic for dehumidification. There is 24VAC between the DH and C terminals when there is no call for dehumidification. Figure 20 & Figure 21 show relay position when there is a call for dehumidification and 0VAC between the DH and C terminals.

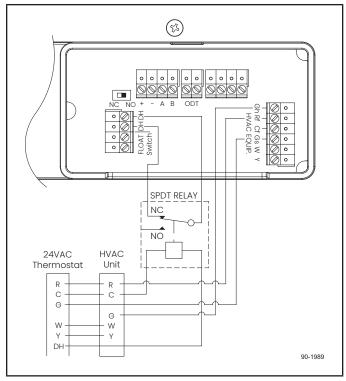


Figure 20. 24VAC Thermostat Connections

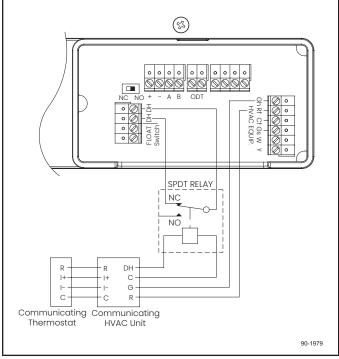


Figure 21. Communicating Thermostat Connections

Y6456 - External Control or Crawl Space/Sealed Attic Control and Wiring

NOTE: Use 18-22 AWG wire for control wiring.

EXTERNAL CONTROL

Used as an external control, the Y6456 is mounted in the space that is to be dehumidified. When the dehumidifier is powered, the display on the dehumidifier control will show **EXTERNAL** to indicate that an external control is being used. External controls are recommended when the dehumidifier is installed in an attic and is ducted to the HVAC system.

The Y6456 uses a normally open (NO), dry contact (i.e. not a triac or other semiconductor) relay to complete the circuit between the DH terminals of the dehumidifier control. If using other controls such as a thermostat with dehumidification outputs, ensure the output is a dry contact type and set the NO/NC switch on the dehumidifier control (see **Figure 22**) to correspond with the control being used.

If an external control is used in a zoned application, it must be located in the Primary Zone (refer to **TWO ZONE – PRIMARY AND SECONDARY** zoned installation on page 16 for details).

NOTE: When using an external control, there is a 3-minute delay at start up or whenever power is cycled to the dehumidifier.

CRAWL SPACE/SEALED ATTIC CONTROL

Used as crawl space or sealed attic control (or wired remote control), the Y6456 is mounted in the living space while the dehumidifier is located in the area to be dehumidified. When the dehumidifier is powered, the display on the dehumidifier control will show **REMOTE** to indicate that a wired remote control is being used. The RH shown on the Y6456 is the RH measured at the dehumidifier.

Wired remote control is typically used for crawl space or sealed attic applications, but is also recommended when the dehumidifier and the space being dehumidified are inconvenient or difficult for the homeowner to access. Examples of this type of application include basements that may be inconvenient to access or storage areas.

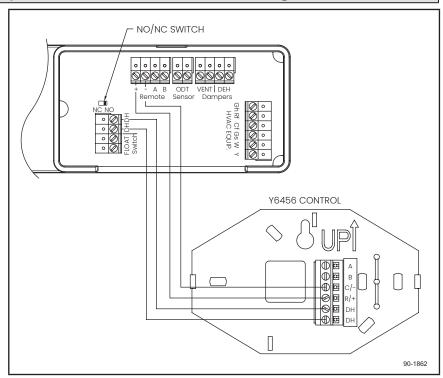


Figure 22. Y6456 External Control Wiring

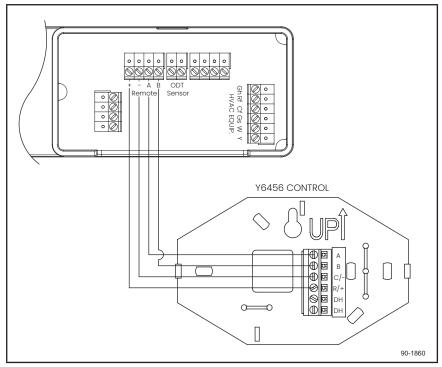


Figure 23. Y6456 Crawl Space/Sealed Attic (Wired Remote) Wiring

Wiring the Dehumidifier to the HVAC System and Zone Dampers

NOTE: Use 18-22 AWG wire for wiring to HVAC system and zone dampers.

Pull off the wiring access cover near the dehumidifier control to access the wiring terminals. Snap the wiring access cover back into place after completing all wiring.

WIRING TO THE HVAC SYSTEM

When the dehumidifier is ducted to the HVAC system, it is recommended that it also be wired to the HVAC system as shown in **Figure 24**. If ducted to the HVAC system in return to return configuration, the dehumidifier **must** be wired to the HVAC system to prevent short circuiting dehumidified air directly back to the dehumidifier inlet. In return to supply ducting configuration, running the HVAC fan with the dehumidifier ensures the warm dry air is mixed with room air before being discharged to the home.

NOTE: Make sure the external static pressure does not exceed the maximums shown on page 3, and disable dehumidification during active air conditioning (see DEH W/AC on page 15).

Optional W & Y Wiring

Wire the W and/or Y terminal to the HVAC system when using the ventilation feature of the dehumidifier (see **Ventilation** on page 17).

Wire the dehumidifier Y terminal to the HVAC system if it is desired to disable the dehumidifier compressor from operating when the air conditioning is running. See **DEH W/AC** in **System Set-up** on page 15 for additional set up steps required to access this feature.

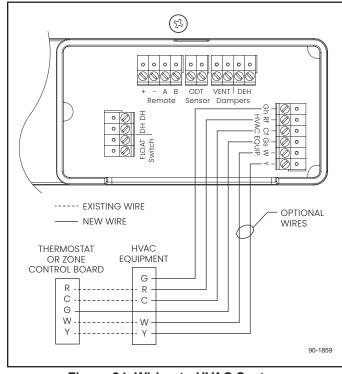


Figure 24. Wiring to HVAC System

WIRING TO ZONE DAMPERS

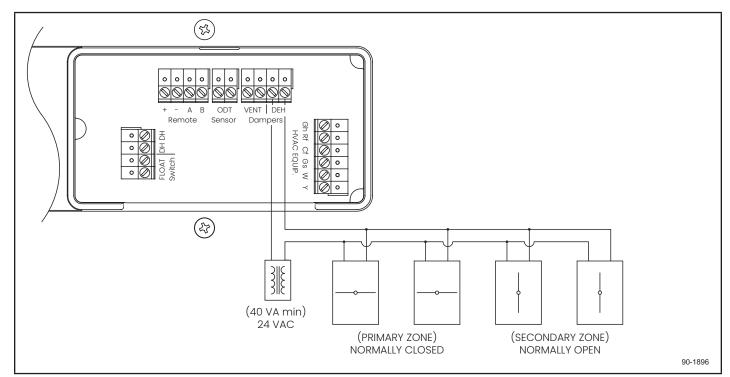
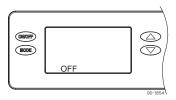


Figure 25. Two Zone Wiring On-Board Control

System Set-up and Checkout

If dehumidifier installation does not include ventilation or zoning and will not be wired to an external control, remote control or the HVAC system, proceed to **INSTALLER TEST MODE** section on page 15.

- 1. Check all wiring.
- **2.** Make sure the wire access cover has been snapped back onto the on-board control.
- 3. Plug unit in to supply power to the dehumidifier.
- **4.** The on-board control screen should display **OFF**.

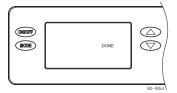


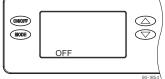
NOTE: If the display backlight is not on, the first button press (any button) will only turn on the backlight. Press the button a second time to achieve function.

- **5.** Hold the MODE button on the on-board control for 3 seconds to enter the Installer Set-up Menu.
- **6.** Navigate through the following screens to set up the dehumidifier for the installed application.

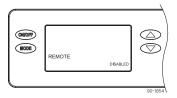
Use the ▲ or ▼ buttons to select items and use MODE to switch to the next set-up option. To exit installer set-up, all options must be scrolled through using the MODE button.

7. After the installer set up options have been completed, DONE will blink for 3 seconds and the control will return to the OFF screen.

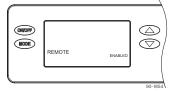




REMOTE CONTROL – CRAWL SPACE/SEALED ATTIC

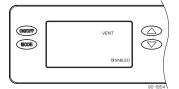


If not installing in a crawl space or sealed attic with Y6456 remote control, press MODE to go to **VENT** screen selections.

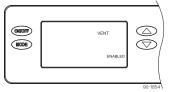


If installing in a crawl space or sealed attic with remote control, enable and press MODE. The installer set-up is complete, proceed to **INSTALLER TEST MODE** section on page 15.

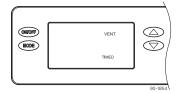
VENTILATION



If not using the dehumidifier to bring in outdoor air, press MODE to go to **ZONE** screen selections.

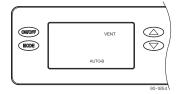


If using the dehumidifier for ventilation, enable and press MODE to select **TIMED** or **AUTO**.

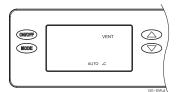


If ventilating based on time only (no outdoor temperature restrictions), press MODE at the **VENT TIMED** screen to go to ventilation time selection screen.

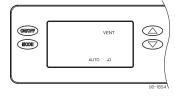
If ventilating with outdoor temperature restrictions, use the ▲ button to go from VENT TIMED to VENT AUTO-B and then the ▲ or ▼ buttons to select the desired ventilation mode, B, C, or D. Press MODE to go to the ventilation time selection screen.



VENT AUTO-B: Ventilation prevented when outdoor temperature is below 0°F and above 100°F. Between 0°F – 20°F ventilation is only allowed during a HVAC heat call.



VENT AUTO-C: Ventilation prevented when outdoor temperature is below 0°F and above 100°F.



VENT AUTO-D: Ventilation prevented when outdoor temperature is below 0°F and above 90°F. Between 0°F – 40°F ventilation is only allowed during a HVAC heat call.

VENT AUTO-B, -C, -D modes apply outdoor temperature limits and require an outdoor temperature sensor to be installed.

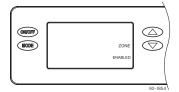


Press the ▲ or ▼ buttons to adjust the ventilation time per hour from 0 to 60 minutes. After selecting time, press MODE to go to the **ZONE** screen selections.

ZONE

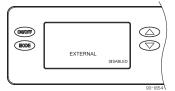


If installing the dehumidifier in a single zone application, select **DISABLED** and press MODE to go to the **EXTERNAL** control screen selections.

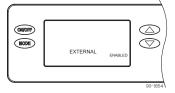


If installing the dehumidifier in a two zone application, use the ▲ or ▼ buttons to select **ENABLED** and press MODE to go to the **EXTERNAL** control screen selections.

EXTERNAL CONTROL

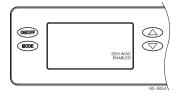


If using the dehumidifier on-board control select **DISABLED** and press MODE to go to the dehumidification with air conditioning (**DEH W/AC**) screen selections.

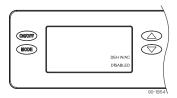


If using a Lennox®
Communicating Thermostat or a Y6456 as an external control or other third-party external control, such as a thermostat with dehumidifier outputs, use the ▲ or ▼ buttons to select ENABLED and press MODE to go to the dehumidification with air conditioning (DEH W/AC) screen selections.

DEH W/AC

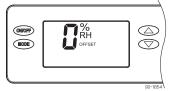


To allow dehumidification during active air conditioning, select **ENABLED** and press MODE.



To disable dehumidification when the air conditioning is on, select **DISABLED** and press MODE.

RH OFFSET



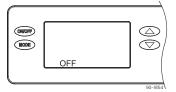
An offset can be applied to the on-board humidity reading to avoid discrepancies with other humidity measuring devices in the home. Use the ▲ or ▼ buttons to select an offset from -5% to 5%. Press MODE to exit the installer set-up screens.

Installer Test Mode

If everything is properly wired, the dehumidifier and all of the wired components will turn on and off during Installer Test Mode to demonstrate that all are properly operating. Installer Test Mode lasts for 4 minutes. If the ON/OFF button is pressed during test mode, the dehumidifier will exit Installer Test Mode and return to the **OFF** screen.

If any of the outputs in the Installer Test do not turn on or a diagnostic code is displayed, see the **Troubleshooting** section beginning on page 22.

Dehumidification Only



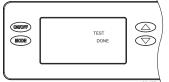
If the dehumidifier is not already OFF, press the ON/ OFF button to turn it off.



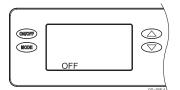
Press and hold the ON/ OFF button and MODE buttons for 3 seconds. The measured humidity, AIR SAMPLING and TEST will show on the display. If wired to the HVAC system, the HVAC blower will turn on and if there is/are damper(s) wired to the DEH DAMPER terminals of the control, the damper(s) will energize.



After three (3) minutes the dehumidifier compressor will turn on and **DEHUMIDIFYING** will replace **AIR SAMPLING** on the control screen.



After one minute of compressor operation, all outputs will turn off and **DONE** will blink for 3 seconds and then return to the **OFF** screen.



Zoning and/or Ventilation



If the dehumidifier has been set up for ventilation, **VENTILATING** will appear on the display throughout Installer Test Mode, and the ventilation damper will be energized.



If the dehumidifier has been set up for zoning, **PRIMARY ZONE** will show on the display for the first minute of dehumidifier blower operation. After one minute, **SECONDARY ZONE** will show on the display and the zone dampers will de-energize.

Start Up and Sequence of Operation

SINGLE ZONE WHOLE HOUSE OR STAND ALONE USING THE DEHUMIDIFIER CONTROL

- Press the ON/OFF button to turn the dehumidifier control ON. The display will show the current setting, and the dehumidifier blower and HVAC blower (if wired to the HVAC system) will turn on to start sampling the air.
 - The setting will be replaced by the measured humidity and **AIR SAMPLING** will show on the display.
- 2. Use the ▲ or ▼ button to adjust the humidity setting as desired. The recommended initial setting is 55%.
- 3. After three (3) minutes of sampling, the measured humidity will be compared to the setting:
 - a. If the humidity is above the setting, the dehumidifier compressor turns on and AIR SAMPLING will be replaced by DEHUMIDIFYING. The compressor remains on until the measured humidity falls 3% RH below the setting.
 - b. If the measured humidity is below the setting, the blowers turn off and the display returns to showing the RH setting.
- 4. The dehumidifier will sample again every 60 minutes, or at any time if the humidity setting is lowered.

SINGLE ZONE WHOLE HOUSE OR STAND ALONE USING A LENNOX COMMUNICATING THERMOSTAT OR Y6456 EXTERNAL CONTROL

- Press the ON/OFF button to turn the dehumidifier control ON. EXTERNAL will show on the display to indicate that an external control is wired to the dehumidifier.
- At the Lennox Communicating Thermostat, make sure the Aux dehumidifier is selected in installer setup and humidity display is turned on from the HO system settings screen. At the Y6456, press the ON button; the Y6456 will display the measured RH.
- 3. From the Lennox Communicating Thermostat home screen, press the arrow on the right side of the screen to access the features screen, then select system setting icon and adjust dehumidify setting to desired setting. Use the ▲ or ▼ button on the Y6456 to adjust the humidity setting as desired. The recommended initial setting is 55%.
- 4. If the %RH measured by the Lennox Communicating Thermostat rises above the dehumidification setting, the dehumidifier will turn on as will the indoor blower, and the home screen will show the system is dehumidifying. The system will turn off when the %RH set point is reached. If the RH measured by the Y6456 rises above the setting, the dehumidifier will turn on as will the HVAC blower (if wired to the HVAC system). **DEHUMIDIFYING** will appear on the dehumidifier control display to show that the Y6456 is calling for dehumidification. The dehumidifier and HVAC blower (if on) will turn off when the RH measured by the Y6456 drops 3% RH below the setting.

CRAWL SPACE OR SEALED ATTIC (REMOTE) CONTROL USING Y6456

- Press the ON/OFF button to turn the dehumidifier control ON. REMOTE will show on the display to indicate that a remote control is wired to the dehumidifier.
- At the Y6456, press the ON button; the Y6456 will display the RH measured at the dehumidifier, and the dehumidifier blower will turn on to start sampling the air.
- 3. Use the ▲ or ▼ button on the Y6456 to adjust the dryness level as desired. The dryness levels are from 1 to 7, with 1 being least dry and 7 being most dry; the recommended initial setting is 3.
- 4. After three (3) minutes of sampling, the measured humidity will be compared to the setting:
 - a. If the humidity is above the setting, the dehumidifier compressor turns on and ON flashes on the Y6456 display.
 - b. If the measured humidity is below the setting, the dehumidifier blower turns off.
- 5. The dehumidifier will sample again every 60 minutes, or at any time if the dryness level is increased.

TWO ZONE - PRIMARY AND SECONDARY

 Press the ON/OFF button to turn the dehumidifier control ON.

Dehumidification of the Primary Zone follows the same sequence as described to the left for Single Zone, with or without a Y6456 external control installed in the Primary Zone. The dehumidifier control display will show **PRIMARY ZONE** in addition to that described to the left when sampling or dehumidifying the Primary Zone. The zone dampers are energized when sampling or dehumidifying the Primary Zone.

2. The Secondary Zone uses the humidity setting on the dehumidifier control. During Secondary Zone sampling or dehumidification, the zone dampers are de-energized and the HVAC blower (if on) stops. SECONDARY ZONE will show on the dehumidifier control display when the Secondary Zone is either sampling or dehumidifying. If the Primary Zone had just finished a dehumidification demand, the compressor will continue to run during Secondary Zone sampling to prevent short cycling of the compressor.

The Secondary Zone is sampled immediately after the Primary Zone has finished sampling, or if there is a call for dehumidification from the Primary Zone, immediately after the call has been satisfied. When a Y6456 external control is installed, the Secondary Zone will be sampled once per hour if there has not been a call for dehumidification from the Primary Zone. Secondary Zone sampling will also occur whenever the setting on the dehumidifier control is lowered.

HVAC UNIT MITIGATION STRATEGY

- If the Dehumidifier is connected to non-communicating thermostats when the system enters mitigation mode, the thermostat will turn off. This also turns off the Dehumidifier.
- If the Dehumidifier is connected to a communicating thermostat when the system enters mitigation mode, the Dehumidifier will continue normal operation.
- If the Dehumidifier is connected to Y6456 Wall-mount Dehumidifier Control when the system enters mitigation mode, the Dehumidifier will continue normal operation.

Ventilation

The dehumidifier can activate a normally closed damper to bring in outdoor air through a fresh air intake duct. This feature can not be used when a Y6456 has been installed in a Remote Control application, and is not recommended for two zone installations.

Required Components

X4152 Ventilation Damper – 6 in. Normally Closed (NC) 6" Insulated Duct for Fresh Air Intake Duct 22N03 (24 VAC, 40 VA) 24 VAC Transformer for Ventilation Damper Intake Hood 18-22 AWG Wire

Optional Component

58N66 Outdoor Temperature Sensor

INSTALLATION & WIRING

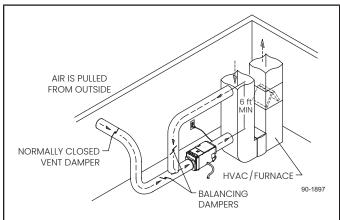


Figure 26. Single Zone, On-Board Control Ventilation Installation

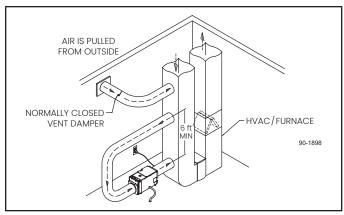


Figure 27. Single Zone, External Control Ventilation Installation

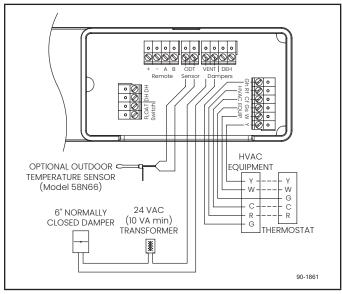


Figure 28. Ventilation Wiring

VENT AUTO & VENT TIMED

The dehumidifier can ventilate in four modes.

VENT TIMED: Ventilation occurs based only on time

setting; no temperature restrictions.

VENT AUTO-B: Ventilation prevented when

outdoor temperature is below 0°F and above 100°F. Between 0°F – 20°F ventilation is only allowed during a HVAC heat

call.

VENT AUTO-C: Ventilation prevented when

outdoor temperature is below

0°F and above 100°F.

VENT AUTO-D: Ventilation prevented when

outdoor temperature is below 0°F and above 90°F. Between 0°F – 40°F ventilation is only allowed during a HVAC heat

call.

VENT AUTO-B, -C, -D modes apply outdoor temperature limits and require the 58N66 Outdoor Temperature Sensor to be installed.

OUTDOOR TEMPERATURE SENSOR INSTALLATION

The 58N66 Outdoor Temperature Sensor should be installed outside in a shaded location, or in the outdoor air intake duct.

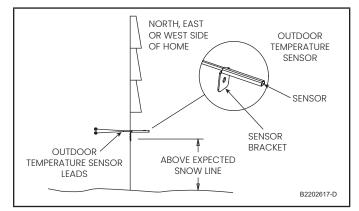


Figure 29. ODT Mounted Outside

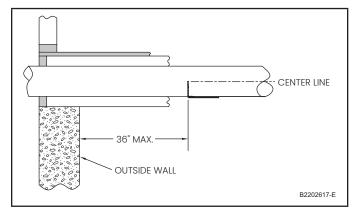


Figure 30. ODT Mounted in Intake Duct

DETERMINE VENTILATION REQUIREMENTS

Calculating Airflow Requirement

1. The MINIMUM ventilation requirement is calculated using ASHRAE 62.2-2010.

ASHRAE Airflow in CFM = [House Area in Sq. Ft. \times 0.01] + [(Number of Bedrooms +1) \times 7.5]

NOTE: Use 'Number of Bedrooms + 1' or 'Number of Occupants', whichever is larger.

2. **Table 1** shows the calculated airflow values to the nearest 5 CFM.

3. Record the required CFM. _____

Table 1. CFM Required

	Number of Bedrooms						
House Sq. Ft.	2	3	4	5	6		
1000	35	40	50				
1500	40	45	55	60	70		
2000	45	50	60	65	75		
2500	50	55	65	70	80		
3000	55	60	70	75	85		
3500			75	80	90		

Determine Fresh Air Delivery Rate

- 1. Measure the negative static pressure of the return system at the location where the fresh air intake duct enters the return duct or dehumidifier inlet.
- See Table 2 for estimated inlet airflow in CFM, based on duct type, length and available negative pressure. Use an airflow measuring device for a more accurate airflow delivery rate.
- 3. Record the delivered CFM. _____

Table 2. CFM Delivered

	Negative Static Pressure ("w.c.) as Measured for Return Duct or Plenum											
Duct Length	0.	05	0	.1	0.	15	0	.2	0.	25	0	.3
	Flex	Pipe	Flex	Pipe	Flex	Pipe	Flex	Pipe	Flex	Pipe	Flex	Pipe
10 ft.	60	65	85	90	105	110	120	125	135	140	150	160
20 ft.	55	60	80	85	100	105	115	120	130	135	140	150
30 ft.	50	55	75	80	95	100	110	115	125	130	130	140

NOTE: For the table above, 6" flex duct is laid loose with two, wide 90° bends and a fully opened damper. Rigid pipe values are based on 6" duct, two 90° elbows, and a fully open damper. In both cases, the air intake is through a metal vent hood with inlet screen. Airflow may need to be adjusted up or down for variations in duct system.

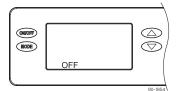
Determine Cycle Time

- 1. Use the Required CFM and Delivered CFM from the above steps to determine the Cycle Time from Table 3.
- 2. The values highlighted in gray cannot be set due to the maximum 60-minute Cycle Time. A second ventilation device (i.e., bigger duct or second duct) will be required to meet ventilation needs.

Table 3. Cycle Time Setting (minutes) for Airflow Delivered vs. Airflow Required for 1 Hour Cycle

CEM Delivered	CFM Required								
CFM Delivered	20	30	40	50	60	70	80	90	100
60	20	30	40	50	60	70	80	90	100
80	15	25	30	40	45	55	60	70	75
100	15	20	25	30	35	40	50	55	60
120	10	15	20	25	30	35	40	45	50
140	10	15	15	20	25	30	35	40	45
160	10	10	15	20	25	25	30	35	40

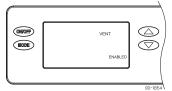
INSTALLER SETTINGS



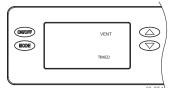
With power supplied to the dehumidifier, press the ON/OFF button to turn the dehumidifier off.



Press and hold the MODE button for 3 seconds to access the installer settings menu. Press and release the MODE button repeatedly until the **VENT DISABLED** screen appears.



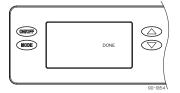
Press the ▲ or ▼ button to **ENABLE** ventilation, then press the MODE button to set Timed or Auto ventilation.



Press the ▲ or ▼ button to toggle between VENT TIMED, VENT AUTO-B, VENT AUTO-C and VENT AUTO-D (refer to page 16 for a description of each). Press the MODE button to select the desired ventilation method and adjust the ventilation time.



Press the ▲ or ▼ button to set the desired amount of ventilation time per hour from 0 to 60 minutes.



To complete, press the MODE button repeatedly until **DONE** appears on the display.

SEQUENCE OF OPERATION

When wired as shown in **Figure 28**, the ventilation damper will open whenever there is an HVAC heating (W), cooling (Y) or fan (Gs) call, allowing fresh air to be brought in when the HVAC blower is running (see **Ventilation with an External Control** section below for exceptions). The ventilation damper will also open if the dehumidifier is operating. **VENTILATING** will show on the dehumidifier control when the dehumidifier is actively ventilating. When the HVAC call ends, the dehumidifier stops, or after the set amount of ventilation time has been met, the ventilation damper will be closed.

If the set amount of ventilation time has not been met before the end of the one-hour cycle, the dehumidifier will open the ventilation damper and turn on the HVAC blower to ensure the desired ventilation time is satisfied.

If the dehumidifier has been set up to operate ventilation with outdoor temperature restrictions (AUTO-B, AUTO-C or AUTO-D – refer to page 17) then ventilation will be limited as described.

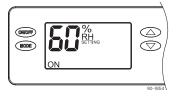
Dehumidifying the Fresh Air

When the dehumidifier is set up for single zone and there is no external control installed, the dehumidifier will turn on its blower and measure the RH of the air entering the dehumidifier during ventilation when ducted as shown in **Figure 26**. If the relative humidity of the air entering the dehumidifier is higher than the setting, the dehumidifier compressor will turn on to remove moisture.

Ventilation with an External Control

When an external control is installed the dehumidifier will open the ventilation damper only when there is a cooling call (Y) or when the dehumidifier is operating, unless the ventilation need has not been met. If the set amount of ventilation time has not been met before the end of the one-hour cycle, the dehumidifier will open the ventilation damper and turn on the HVAC blower to ensure the desired ventilation time is satisfied.

Adjusting Ventilation Time After Initial Set Up



Press the ▲ or ▼
 button to access the RH
 adjustment screen or to
 turn on the backlight if
 using an External Control.



- Press the MODE button to toggle to the VENT TIMED setting.
- Press the ▲ or ▼ button to adjust the ventilation time (minutes). After adjusted, press nothing else; the screen will return to home screen after three (3) seconds.

Troubleshooting

IMPORTANT

Troubleshooting and repairs shall be performed by a qualified HVAC service technician, and all safety procedures shall be followed.

Technical Support is available Monday through Friday, 6:30 a.m. to 6:30 p.m. CST, at 1-800-LENNOX (800-453-6669). Use the guides on the following pages to identify and correct system faults. Contact Technical Support before replacing the unit or any components and for additional troubleshooting.

DIAGNOSTIC CODES

When an error occurs, the Diagnostic Code along with **SERVICE REQUIRED** will be displayed on the control screen. See **Table 4** for possible Diagnostic Codes and **Table 5** for the Troubleshooting Guide.

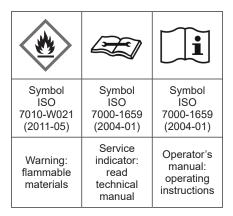


	Table 4. Diagnostic Codes						
Diagnostic Code	Failure Mode	Action	Reset				
E1	Internal Humidity or Temperature Sensor Open or Shorted	Cycle power to clear error code. If error code reoccurs replace User Interface, Catalog No. Y6459.	Cycle Power				
E2	High Refrigeration Pressure	Verify that the fan works, the backflow damper swings freely and there is no blocked or restricted duct. If the fault persists, call Technical Support.	Cycle Power				
E3	Y6456 Remote Control Communication Loss	 Check connections between Y6456 and dehumidifier control board. Terminals should be fully inserted and secured in the control board and Y6456 control terminals. If connections are correct and secure, turn off the dehumidifier and remove the Y6456. Use a short section of 4-wire cable to reconnect the Y6456 to the control board. Turn the dehumidifier back on and increase the dryness level setting on the Y6456. If the dehumidifier turns on, the problem is with the wiring between the dehumidifier and control. If the dehumidifier does not turn on, call Technical Support at 1-800-453-6669. 	Self-Correcting				
E4	Insufficient Capacity	 Check the frost sensor connection at the power board. Terminal should be fully seated on the power board pins. Remove the side access panel and verify that the sensor is secured to the suction line. If the sensor is connected and secured to the refrigeration line proceed to the next step. Reset the fault by cycling power to the dehumidifier. Turn the humidity setting down (below room/home humidity level) to make a dehumidification call. Allow the fan and compressor to run for approximately 10-15 minutes and then enter diagnostic test mode by simultaneously pressing the ▲ and MODE buttons for 3 seconds. The LCD will display the temperature measured by the internal sensor while also displaying AIR SAMPLING and ON, the humidity measured by the internal sensor while also displaying %RH and ON, and the frost sensor temperature while also displaying ON. Scroll through these values and by using the ▲ or ▼ buttons. Record values and call Technical Support. 	Cycle Power				
E5	High Temperature Thermistor Failure	 Check the high temperature sensor connection (if equipped) at the power board. Terminal should be fully seated on the power board pins. Remove the side access panel and verify the sensor is not damaged and connected to the refrigeration line coming from the compressor. If the sensor is connected and secured to the refrigeration line, contact Technical Support. 	Cycle Power				
E6	Low Temperature Thermistor Failure	 Check the low temperature sensor connection at the power board. Remove the side access panel and verify the sensor is not damaged and connected to the suction line. If the sensor is connected and secured to the refrigeration line, contact Technical Support. 	Cycle Power				
E7	Float Switch Open	1. Empty the condensate pan. 2. Check the float switch connection at the control board. 3. If not using a float switch, verify jumper is between float switch terminals on dehumidifier control board. 4. If the problem persists, replace the float switch.	Self-Correcting				
E8	Inlet Air Temperature Out of 50°F – 104°F or dew point below 40°F	 Verify all duct is properly sealed. If no signs of leak points, contact Technical Support. If the air temperature is in range and the dew point is above 40°F, contact Technical Support. 	Self-Correcting				
E9	Outdoor Temperature Sensor Open or Shorted	Check the sensor connection at the power board. Remove the wires from the terminals and measure the resistance. A short circuit will have a resistance very close to 0 Ohms and an open circuit will have a very high resistance. The table at right can be used to approximate the resistance based on outdoor temperature. 3. If the sensor is not reading correctly, replace the sensor, Catalog No. 58N66. Outdoor Temperature 0°F 84,500 Ohms 20°F 46,000 Ohms 40°F 26,000 Ohms 60°F 15,500 Ohms 80°F 9,500 Ohms 100°F 6,000 Ohms	Self-Correcting				

Table 5. Troubleshooting Guide							
Symptom	Possible Reason	Troubleshooting Procedure					
Dehumidifier does not turn on/run.	No power to unit	 Check that the dehumidifier is plugged in. Check that power is supplied to the outlet. Check that the control is turned ON. Check that the circuit breaker has not tripped. 					
Dehumidifier blower is running but with little or no airflow.	Pressure drop across dehumidifier is higher than 0.4"w.c. for HCWHD5-080, 0.6"w.c. for HCWHD5-100, or 0.7"w.c. for HCWHD5-130	 Check dehumidifier air filter and wash or replace. Check for blocked duct and clear. Verify that the outlet collar with backflow damper is installed on the outlet side of the dehumidifier. Check if backflow damper is blocked or stuck and remove obstruction. 					
Dehumidifier blower is running but compressor is not.	Float switch open (E7 appears on display)	If float switch installed, check connections at control board and empty condensate pan. If no float switch installed, check that the jumper is installed at the float switch terminals on the control board.					
	Unit is defrosting	Frosting occurs when the incoming air is cool and dry, airflow is restricted. Frosting due to cold/dry conditions DEFROSTING will show on the display. If it is not cool dirty filter.	is a normal part of	operation and			
	Inlet air temperature is outside of the 50°F – 104°F range or the dew point is below 40°F and there is a demand for dehumidification	Verify all ductwork is properly sealed. Dehumidification air temperature is within range and the dew point is about the many services when inlet air conditions prevent operation.					
When zoned, the dehumidifier damper does not open in INSTALLER TEST mode.	Incorrect damper wiring or bad connection	 Verify wiring between dampers and 24 VAC transformer. If wired for Two Zone operation, verify that 24 VAC transformer is 40 VA minimum. Check all wiring connections between dampers and control board. Verify the normally closed dampers are in the Primary Zone duct system and the normally open dampers are in the Secondary Zone duct system. 					
The ventilation damper does not open when the HVAC fan is	Cycle time has been met	The damper will not open if the Ventilation Time has all	ready been met.				
active.	ODT error or outdoor air outside of ODT range	Check that the ODT is wired correctly to the dehumidifier control board and connections are secure. Check that the ODT is installed in the outdoor air intake according to the set-up specified in the Ventilation section beginning on page 17.	Outdoor Temperature 0°F 20°F 40°F	Resistance 84,500 Ohms 46,000 Ohms 26,000 Ohms			
		Remove the ODT leads from the dehumidifier control board and check the resistance. Compare the reading with the table shown. 100°F 15,500 Ohms 100°F 6,000 Ohms					
Dehumidifier is not draining properly.	Drain line blocked or unit not level	Verify that the unit is level. Check the drain line blockages and for a continuous do For HCWHD5-080 and HCWHD5-100 only: Verify pres Maintenance in Owner's Manual for cleaning procedure missing or damaged.	ence and condition				
The HVAC fan turns on unexpectedly.	Dehumidifier is sampling or ventilation in progress	The dehumidifier will turn on the HVAC fan during air so ventilation time.	ampling or as need	ed to meet the			
Dehumidifier is producing hot air.	Normal function	Air is reheated across the condenser coil, resulting in a outlet.	temperature rise b	etween inlet and			

Service Instructions

SYMBOLS



SAFETY INSTRUCTIONS

A CAUTION

When connected via air ducts to one or more rooms the appliance shall be directly ducted to the space. Open areas such as false ceilings shall not be used as a return air duct.

SERVICE

Approved auxiliary devices: Only approved auxiliary devices approved by the appliance manufacturer shall be installed in the ductwork.

Fresh Air Ventilator, Stock # 8190FF

The following checks shall be applied to installations using FLAMMABLE REFRIGERANTS:

- The ventilation machinery and outlets are operating adequately and are not obstructed.
- Marking on the equipment shall be visible and legible. Markings and signs that are illegible shall be corrected.
- When opening the ventilated enclosure for repair of electrical components, be sure to check for refrigerant leaks with a certified flammable refrigerant leak detector.

Repair Initial safety checks shall include:

- Servicing the electrical system on the unit should be carried out by a qualified and licensed electrician.
- Disconnect power from the unit (unplug) before attempting service or repair.
- The capacitors are discharged: this shall be done in a safe manner to avoid possibility of sparking; that no live electrical components and wiring are exposed in case of a leak.
- · There is continuity of earth bonding.

- Sealed electrical components shall be replaced, not repaired.
- Do not apply any permanent inductive or capacitance loads to the circuit without ensuring that this will not exceed the permissible voltage and current permitted for the equipment in use.
- Intrinsically safe components must be replaced if tripped.
- Replace components only with parts specified by the manufacturer. Other parts may result in the ignition of refrigerant in the atmosphere from a leak.
- Prior to beginning work on systems containing FLAMMABLE REFRIGERANTS, safety checks are necessary to ensure that the risk of ignition is minimized.
- Ensure that the area is in the open or that it is adequately ventilated before removal of the dehumidifier panels for servicing or conducting any hot work in the vicinity of the unit. A degree of ventilation shall continue during the period that the work is carried out. The ventilation should safely disperse any released refrigerant and preferably expel it externally into the atmosphere.
- The refrigeration system is considered factory sealed and puncturing the refrigerant tubing in any way is prohibited.
- Repairing the refrigeration system shall not be performed in the field and must be done at the manufacturing facility by trained personnel.
- Check that cabling will not be subject to wear, corrosion, excessive pressure, vibration, sharp edges, or any other adverse environmental effects. The check shall also consider the effects of aging or continual vibration from sources such as compressors or fans.
- If a leak is suspected, all naked flames shall be removed/ extinguished.

The following leak detection methods are deemed acceptable for all refrigerant systems:

- If the Dehumidifier is connected to non-communicating thermostats when the system enters mitigation mode, the thermostat will turn off. This also turns off the Dehumidifier.
- If the Dehumidifier is connected to a communicating thermostat when the system enters mitigation mode, the Dehumidifier will continue normal operation.
- · If the Dehumidifier is connected to

- Y6456 Wall-mount Dehumidifier Control when the system enters mitigation mode, the Dehumidifier will continue normal operation.
- Under no circumstances shall potential sources of ignition be used in the searching for or detection of refrigerant leaks. A halide torch (or any other detector using a naked flame) shall not be used.
- Electronic leak detectors may be used to detect refrigerant leaks but must be calibrated correctly for Flammable Refrigerants. (Detection equipment shall be calibrated in a refrigerant-free area.)
- Ensure that the detector is not a potential source of ignition and is suitable for the refrigerant used.
- Leak detection equipment shall be set at a percentage of the Lower Flammability Limit (LFL) of the refrigerant and shall be calibrated to the refrigerant employed, and the appropriate percentage of gas (25 % maximum) is confirmed.
- Leak detection fluids are also suitable for use with most refrigerants but the use of detergents containing chlorine shall be avoided as the chlorine may react with the refrigerant and corrode the copper pipe work. Examples of leak detection fluids are:
 - bubble method,
 - fluorescent method agents.

NOTE: The use of silicon sealant can inhibit the effectiveness of some types of leak detection equipment.

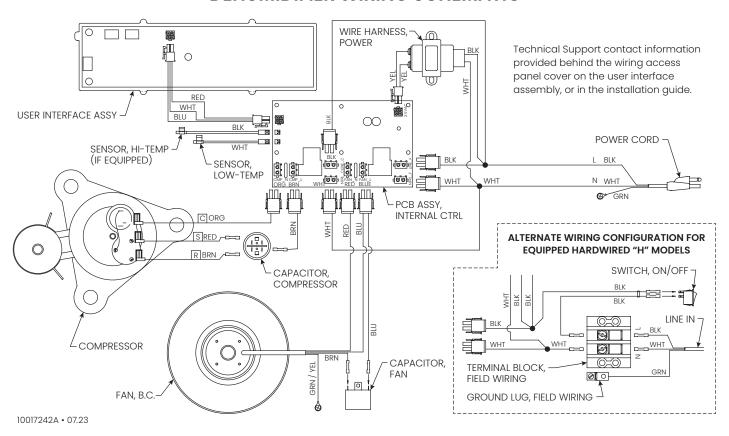
FOR ADDITIONAL ASSISTANCE:

Technical Support is available Monday through Friday (see Troubleshooting).

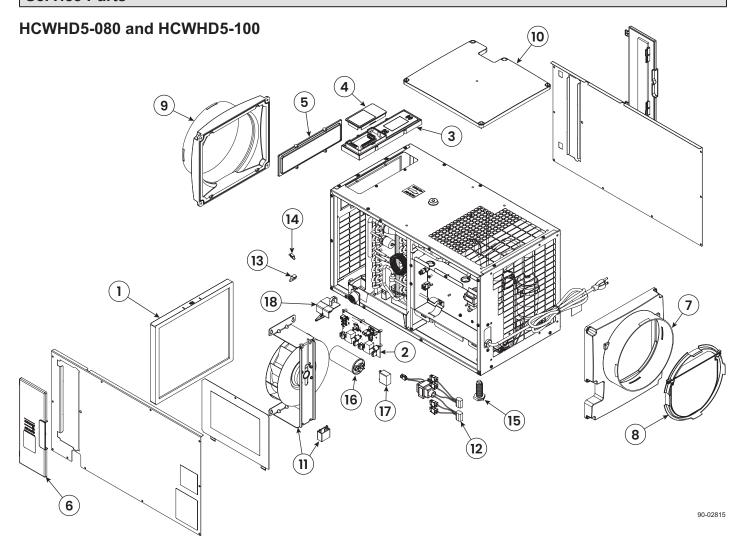
Wiring Diagram

Applicable to models: HCWHD5-080, HCWHD5-100, and HCWHD5-130.

DEHUMIDIFIER WIRING SCHEMATIC



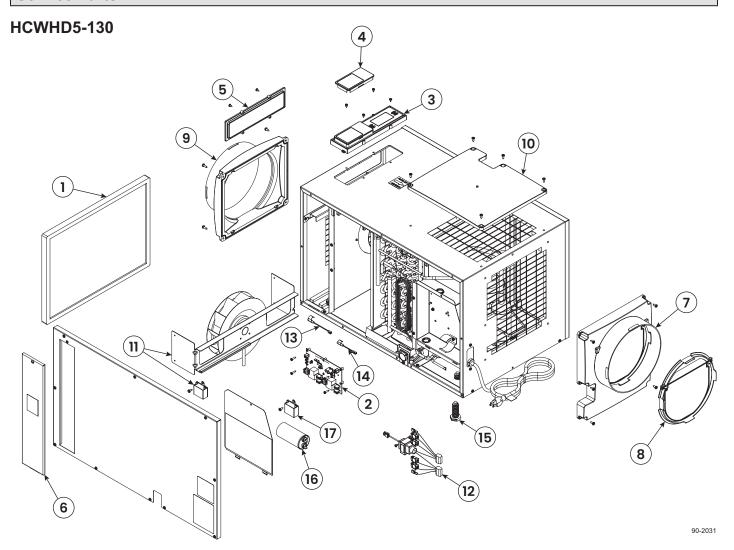
Service Parts



No.	Description	Catalog No.
1	EZK Filter, 13.5" x 11.875" x 0.875"	22H31
2	Internal Control Board	Y6458
3	User Interface Assembly	Y6459
4	Wiring Access Door	Y6460
5	Hole Cover, UI Ctrl	Y6461
6	Door, Filter Access	28B69
7	Outlet Duct Panel	Y6463
8	Backflow Damper, 10"	Y6464
9	Inlet Duct Panel	Y6465
10	Cover, Outlet	Y6466
11	Fan, 80pt Deh, with 6MFD Capacitor	22H29
11	Fan, 100pt Deh, with 12MFD Capacitor	22H28

No.	Description	Catalog No.
12	Wire Harness, Power	22H27
13	Sensor, Low Temperature	Y6470
14	Sensor, High Temperature	Y6471
15	Leveling Foot	Y6472
16	Compressor Capacitor, Run, 50µF	Y7123
17	Fan Capacitor, 6MFD, 250VAC, 80pt Deh	22H25
17	Fan Capacitor, 12MFD, 450VAC, 100pt Deh	Y6475
18	Drain Insert	22H26
Not Shown	Outdoor Temperature Sensor	58N66

Service Parts



No.	Description	Catalog No.
1	Filter, 14" x 19" x 1" EZK	Y7120
2	Internal Control Board	Y6458
3	User Interface Assembly	Y6459
4	Wiring Access Door	Y6460
5	Hole Cover, UI Ctrl	Y6461
6	Door, Filter Access	Y7121
7	Outlet Duct Panel	Y6463
8	Backflow Damper, 10"	Y6464
9	Inlet Duct Panel	Y6465

No.	Description	Catalog No.
10	Cover, Outlet	Y6466
11	Fan, 130pt Deh, with 10MFD Capacitor	Y7122
12	Wire Harness, Power	Y6469
13	Sensor, Low Temperature	Y6470
14	Sensor, High Temperature	Y6471
15	Leveling Foot	Y6472
16	Compressor Capacitor, 70MFD, 250VAC	22J26
17	Fan Capacitor, 10MFD, 250VAC	Y7124



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