**INSTALLATION INSTRUCTIONS**

**Elite® Series XC14 Units**

**AIR CONDITIONER**

507018-01

6/2013

Supersedes 7/2012

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**WARNING**

The State of California has determined that this product may contain or produce a chemical or chemicals, in very low doses, which may cause serious illness or death. It may also cause cancer, birth defects, or reproductive harm.

**General**

This XC14 outdoor air conditioner is designed for use with HFC-410A refrigerant only. This unit must be installed with an approved indoor air handler or coil. See the Lennox XC14 Product Specifications bulletin (EHB) for approved indoor component match ups.

These instructions are intended as a general guide and do not supersede local codes in any way. Consult authorities having jurisdiction before installation.

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**STEP 1 -- SETTING THE UNIT -- Clearances**

**NOTES:**

Service clearance of 30 in. must be maintained on one of the sides adjacent to the control box.

Clearance to one of the other three sides must be 36 in.

Clearance to one of the remaining two sides may be 12 in. and the final side may be 6 in..

A clearance of 24 in. must be maintained between two units.

48 in. clearance required on top of unit.

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**FIGURE 1**
UNIT DIMENSIONS - INCHES (MM)

ELECTRICAL INLETS
SIDE VIEW
SUCTION LINE CONNECTION
LIQUID LINE CONNECTION

A
B
C
D
E
F
G
H
I
J

XC14 Dimensions - in. (mm)

<table>
<thead>
<tr>
<th>Model</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
<th>J</th>
</tr>
</thead>
</table>

XC14-018 BASE SECTION (SMALL)

XC14-024 TO -060 BASE WITH ELONGATED LEGS
**NOTICE !**

Roof Damage!
This system contains both refrigerant and oil. Some rubber roofing material may absorb oil, causing the rubber to degrade. Failure to follow this notice could result in damage to roof surface.

**IMPORTANT !**

Exhaust vents from dryers, water heaters and furnaces should be directed away from the outdoor unit. Prolonged exposure to exhaust gases and the chemicals contained within them may cause condensation to form on the steel cabinet and other metal components of the outdoor unit. This will diminish unit performance and longevity.

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**PLACEMENT**

Install unit away from windows.

**FIGURE 2**

TWO 90° ELBOWS INSTALLED IN LINE SET WILL REDUCE LINE SET VIBRATION.

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**SLAB MOUNTING**

Install unit level or, if on a slope, maintain slope tolerance of 2 degrees (or 2 inches per 5 feet [50 mm per 1.5 m]) away from building structure.

**FIGURE 3**

BUILDING STRUCTURE

GROUND LEVEL

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**SLAB MOUNTING (Continued)**

Install unit level or, if on a slope, maintain slope tolerance of 2 degrees (or 2 inches per 5 feet [50 mm per 1.5 m]) away from building structure.

**FIGURE 4**

Use additional 2" SCH 40 male threaded adapters which can be threaded into the female threaded adapters to make additional adjustments to the level of the unit.

**FIGURE 5**

CAUTION

Before attempting to perform any service or maintenance, turn the electrical power to unit OFF at disconnect switch.

**STABILIZING UNIT ON UNEVEN SURFACES**

- #10 X 1/2" LONG SELF-DRILLING SHEET METAL SCREWS
- STABILIZING BRACKET (18 GAUGE METAL — 2" WIDTH; HEIGHT AS REQUIRED)
- #10 X 1-1/4" LONG HEX HD SCREW AND FLAT WASHER

Concrete slab — use two plastic anchors (hole drill 1/4")

**IMPORTANT !**

Unit Stabilizer Bracket Use (field-provided):
Always use stabilizers when unit is raised above the factory height. (Elevated units could become unstable in gusty wind conditions.) Stabilizers may be used on any unit installed on unstable and uneven surfaces.
To prevent personal injury, as well as damage to panels, unit or structure, observe the following:
While installing or servicing this unit, carefully stow all removed panels so that the panels will not cause injury to personnel, objects or nearby structures. Also, take care to store panels where they will not be subject to damage (e.g., being bent or scratched).

While handling or stowing the panels, consider any weather conditions (especially wind) that may cause panels to be blown around and damaged.

STEP 2 -- REFRIGERANT PIPING -- Flushing Existing Line Set & Indoor Coil

Flush the existing line set per the following instructions. For more information, refer to the Installation and Service Procedures manual available on DaveNet. CAUTION - DO NOT attempt to flush and re-use existing line sets or indoor coil when the system contains contaminants (i.e., compressor burn out).

IMPORTANT!

If this unit is being matched with an approved line set or indoor unit coil that was previously charged with mineral oil, or if it is being matched with a coil which was manufactured before January of 1999, the coil and line set must be flushed prior to installation. Take care to empty all existing traps. Polyol ester (POE) oils are used in Lennox units charged with HFC-410A refrigerant. Residual mineral oil can act as an insulator, preventing proper heat transfer. It can also clog the expansion device and reduce system performance and capacity.

Failure to properly flush the system per this instruction and the detailed Installation and Service Procedures manual will void the warranty.

<table>
<thead>
<tr>
<th>Model Number (-xx*)</th>
<th>Valve Size Connections</th>
<th>Recommended Line Sets</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Liquid Line</td>
<td>Suction Line</td>
</tr>
<tr>
<td>XC14-018-230-XX</td>
<td>3/8&quot; (10 mm)</td>
<td>3/4&quot; (19 mm)</td>
</tr>
<tr>
<td>XC14-024-230-XX</td>
<td>3/8&quot; (10 mm)</td>
<td>3/4&quot; (19 mm)</td>
</tr>
<tr>
<td>XC14-030-230-XX</td>
<td>3/8&quot; (10 mm)</td>
<td>3/4&quot; (19 mm)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>XC14-036-230-XX</td>
<td>3/8&quot; (10 mm)</td>
<td>7/8&quot; (22 mm)</td>
</tr>
<tr>
<td>XC14-041-230-XX</td>
<td>3/8&quot; (10 mm)</td>
<td>7/8&quot; (22 mm)</td>
</tr>
<tr>
<td>XC14-042-230-XX</td>
<td>3/8&quot; (10 mm)</td>
<td>7/8&quot; (22 mm)</td>
</tr>
<tr>
<td>14ACX-060-230-XX</td>
<td>3/8&quot; (10 mm)</td>
<td>1-1/8&quot; (29 mm)**</td>
</tr>
</tbody>
</table>

** Some applications may required a field-provided 1-1/8" to 7/8" adapter.

NOTE - When installing refrigerant lines longer than 50 feet, refer to the Refrigerant Piping Design and Fabrication Guidelines manual available on DaveNet (Corp. 9351-L9), or contact the Technical Support Department Product Application group for assistance.

NOTE - For new or replacement line set installation, refer to Service and Application Note - Corp. 9112-L4 (C-91-4).
STEP 2 -- REFRIGERANT PIPING -- Removing Existing Indoor Metering Device

1A TYPICAL EXISTING FIXED ORIFICE REMOVAL PROCEDURE (UNCASED COIL SHOWN)

A. On fully cased coils, remove the coil access and plumbing panels.
B. Remove any shipping clamps from the liquid line and distributor assembly.
C. Using two wrenches, disconnect liquid line from liquid line orifice housing. Take care not to twist or damage distributor tubes during this process.
D. Remove and discard fixed orifice, valve stem assembly (if present) and Teflon® washer as illustrated above.
E. Use a field-provided fitting to temporarily reconnect the liquid line to the indoor unit's liquid line orifice housing.

1B TYPICAL EXISTING EXPANSION VALVE REMOVAL PROCEDURE (UNCASED COIL SHOW)

A. On fully cased coils, remove the coil access and plumbing panels.
B. Remove any shipping clamps from the liquid line and distributor assembly.
C. Disconnect the equalizer line from the expansion valve equalizer line fitting on the vapor line.
D. Remove the vapor line sensing bulb.
E. Disconnect the liquid line from the expansion valve at the liquid line assembly.
F. Disconnect the expansion valve from the liquid line orifice housing. Take care not to twist or damage distributor tubes during this process.
G. Remove and discard expansion valve and the two Teflon® rings.
H. Use a field-provided fitting to temporarily reconnect the liquid line to the indoor unit's liquid line orifice housing.

2 CONNECT GAUGES AND EQUIPMENT FOR FLUSHING PROCEDURE

A. HCFC-22 cylinder with clean refrigerant (positioned to deliver liquid refrigerant) to the vapor service valve.
B. HCFC-22 gauge set (low side) to the liquid line valve.
C. HCFC-22 gauge set center port to inlet on the recovery machine with an empty recovery tank connected to the gauge set.
D. Connect recovery tank to recovery machine per machine instructions.

3 FLUSHING LINE SET

The line set and indoor unit coil must be flushed with at least the same amount of clean refrigerant that previously charged the system. Check the charge in the flushing cylinder before proceeding.

A. Set the recovery machine for liquid recovery and start the recovery machine. Open the gauge set valves to allow the recovery machine to pull a vacuum on the existing system line set and indoor unit coil.
B. Position the cylinder of clean HCFC-22 for delivery of liquid refrigerant and open its valve to allow liquid refrigerant to flow into the system through the vapor line valve. Allow the refrigerant to pass from the cylinder and through the line set and the indoor unit coil before it enters the recovery machine.
C. After all of the liquid refrigerant has been recovered, switch the recovery machine to vapor recovery so that all of the HCFC-22 vapor is recovered. Allow the recovery machine to pull the system down to 0.
D. Close the valve on the inverted HCFC-22 drum and the gauge set valves. Pump the remaining refrigerant out of the recovery machine and turn the machine off.
**STEP 2 -- REFRIGERANT PIPING -- Brazing Procedures**

1. **CUT AND DEBUR**
   Cut ends of the refrigerant lines square (free from nicks or dents) and debur the ends. The pipe must remain round. Do not crimp end of the line.

2. **CAP AND CORE REMOVAL**
   Remove service cap and core from both the suction / vapor and liquid line service ports.

3. **ATTACH THE MANIFOLD GAUGE SET FOR BRAZING LIQUID AND SUCTION / VAPOR LINE SERVICE VALVES**
   Flow regulated nitrogen (at 1 to 2 psig) through the low-side refrigeration gauge set into the liquid line service port valve, and out of the suction / vapor line service port valve.
   - **A.** Connect gauge set low pressure side to liquid line service valve (service port).
   - **B.** Connect gauge set center port to bottle of nitrogen with regulator.
   - **C.** Remove core from valve in suction / vapor line service port to allow nitrogen to escape.

**CAUTION**
Brazing alloys and flux contain materials which are hazardous to your health. Avoid breathing vapors or fumes from brazing operations. Perform operations only in well-ventilated areas. Wear gloves and protective goggles or face shield to protect against burns. Wash hands with soap and water after handling brazing alloys and flux.

**WARNING**
Danger of fire. Bleeding the refrigerant charge from only the high side may result in pressurization of the low side shell and suction tubing. Application of a brazing torch to a pressurized system may result in ignition of the refrigerant and oil mixture. Check the high and low pressures before applying heat.
4 WRAP SERVICE VALVES
To help protect service valve seals during brazing, wrap water-saturated cloths around service valve bodies and copper tube stubs. Use additional water-saturated cloths underneath the valve body to protect the base paint.

5 FLOW NITROGEN
Flow regulated nitrogen (at 1 to 2 psig) through the refrigeration gauge set into the valve stem port connection on the liquid service valve and out of the suction / vapor valve stem port. See steps 3A, 3B and 3C on manifold gauge set connections.

6 BRAZE LINE SET
Wrap both service valves with water-saturated cloths as illustrated here and as mentioned in step 4, before brazing to line set. Cloths must remain water-saturated throughout the brazing and cool-down process.

IMPORTANT — Allow braze joint to cool. Apply additional water-saturated cloths to help cool brazed joint. Do not remove water-saturated cloths until piping has cooled. Temperatures above 250°F will damage valve seals.

WARNING
FIRE, PERSONAL INJURY, OR PROPERTY DAMAGE may result if you do not wrap a water-saturated cloth around both liquid and suction line service valve bodies and copper tube stub while brazing the line set! The braze, when complete, must be quenched with water to absorb any residual heat. Do not open service valves until refrigerant lines and indoor coil have been leak-tested and evacuated. Refer to Installation and Service Procedures manual found on DAVENET.

7 PREPARATION FOR NEXT STEP
After all connections have been brazed, disconnect manifold gauge set from service ports. Apply additional water-saturated cloths to both services valves to cool piping. Once piping is cool, remove all water-saturated cloths.

FIGURE 7 (CONTINUED)
STEP 3 -- INSTALLING INDOOR EXPANSION VALVE

This outdoor unit is designed for use in systems that use an expansion valve metering device. See the XC14 Product Specifications bulletin (EHB) for approved expansion valve kit match-ups and application information. The expansion valve can be installed internal or external to the indoor coil. In applications where an uncased coil is being installed in a field-provided plenum, install the expansion valve in a manner that will provide access for future field service of the expansion valve. Refer to below illustration for reference during installation of expansion valve.

INDOOR EXPANSION VALVE INSTALLATION

A. Attach the vapor line sensing bulb in the proper orientation as illustrated to the right using the clamp and screws provided.

NOTE — Confirm proper thermal contact between vapor line and expansion bulb before insulating the sensing bulb once installed.

B. Connect the equalizer line from the expansion valve to the liquid line orifice housing. Finger tighten and use an appropriately sized wrench to turn an additional 1/2 turn clockwise as illustrated in the figure above, or tighten to 20 ft-lb.

C. Install one of the provided Teflon® rings around the stubbed end of the expansion valve and lightly lubricate the connector threads and expose surface of the Teflon® ring with refrigerant oil.

D. Attach the stubbed end of the expansion valve to the liquid line orifice housing. Finger tighten and use an appropriately sized wrench to turn an additional 1/2 turn clockwise as illustrated in the figure above, or tighten to 20 ft-lb.

E. Place the remaining Teflon® washer around the other end of the expansion valve. Lightly lubricate connector threads and expose surface of the Teflon® ring with refrigerant oil.

F. Attach the liquid line assembly to the expansion valve. Finger tighten and use an appropriately sized wrench to turn an additional 1/2 turn clockwise as illustrated in the figure above or tighten to 20 ft-lb.

SENSING BULB INSTALLATION

A. Attach the vapor line sensing bulb in the proper orientation as illustrated to the right using the clamp and screws provided.

NOTE — Confirm proper thermal contact between vapor line and expansion bulb before insulating the sensing bulb once installed.

B. Connect the equalizer line from the expansion valve to the liquid line orifice housing. Finger tighten and use an appropriately sized wrench to turn an additional 1/2 turn clockwise as illustrated in the figure above, or tighten to 20 ft-lb.

Sensing bulb insulation is required if mounted external to the coil casing, sensing bulb installation for bulb positioning.

EQUALIZER LINE INSTALLATION

A. Remove and discard either the flare seal cap or flare nut with copper flare seal bonnet from the equalizer line port on the vapor line as illustrated in the figure below.

B. Remove the field-provided fitting that temporarily reconnected the liquid line to the indoor unit's distributor assembly.

NOTE — NEVER MOUNT THE SENSING BULB ON BOTTOM OF LINE.

FIGURE 8
STEP 4 -- LEAK TEST AND EVACUATION

### CONNECT GAUGE SET

A. Connect the high pressure hose of an HFC-410A manifold gauge set to the vapor valve service port.

**NOTE** — Normally, the high pressure hose is connected to the liquid line port. However, connecting it to the vapor port better protects the manifold gauge set from high pressure damage.

B. With both manifold valves closed, connect the cylinder of HFC-410A refrigerant to the center port of the manifold gauge set.

**NOTE** — Later in the procedure, the HFC-410A container will be replaced by the nitrogen container.

### TEST FOR LEAKS

After the line set has been connected to the indoor and outdoor units, check the line set connections and indoor unit for leaks. Use the following procedure to test for leaks:

A. With both manifold valves closed, connect the cylinder of HFC-410A refrigerant to the center port of the manifold gauge set. Open the valve on the HFC-410A cylinder (vapor only).

B. Open the high pressure side of the manifold to allow HFC-410A into the line set and indoor unit. Weigh in a trace amount of HFC-410A. *A trace amount is a maximum of two ounces (57 g) refrigerant or three pounds (31 kPa) pressure.* Close the valve on the HFC-410A cylinder and the valve on the high pressure side of the manifold gauge set. Disconnect the HFC-410A cylinder.

C. Connect a cylinder of nitrogen with a pressure regulating valve to the center port of the manifold gauge set.

D. Adjust nitrogen pressure to 150 psig (1034 kPa). Open the valve on the high side of the manifold gauge set in order to pressurize the line set and the indoor unit.

E. After a few minutes, open one of the service valve ports and verify that the refrigerant added to the system earlier is measurable with a leak detector.

F. After leak testing, disconnect gauges from service ports.

**FIGURE 9**
STEP 4 -- LEAK TEST AND EVACUATION (Continued)

3 CONNECT GAUGE SET

NOTE — Remove cores from service valves (if not already done).

A Connect low side of manifold gauge set with 1/4 SAE in-line tee to vapor line service valve
B Connect high side of manifold gauge set to liquid line service valve
C Connect available micron gauge connector on the 1/4 SAE in-line tee.
D Connect the vacuum pump (with vacuum gauge) to the center port of the manifold gauge set. The center port line will be used later for both the HFC-410A and nitrogen containers.

4 EVACUATE THE SYSTEM

A Open both manifold valves and start the vacuum pump.
B Evacuate the line set and indoor unit to an absolute pressure of 23,000 microns (29.01 inches of mercury).
   NOTE — During the early stages of evacuation, it is desirable to close the manifold gauge valve at least once. A rapid rise in pressure indicates a relatively large leak. If this occurs, repeat the leak testing procedure.
   NOTE — The term absolute pressure means the total actual pressure above absolute zero within a given volume or system. Absolute pressure in a vacuum is equal to atmospheric pressure minus vacuum pressure.
C When the absolute pressure reaches 23,000 microns (29.01 inches of mercury), perform the following:
   • Close manifold gauge valves.
   • Close valve on vacuum pump.
   • Turn off vacuum pump.
   • Disconnect manifold gauge center port hose from vacuum pump.
   • Attach manifold center port hose to a nitrogen cylinder with pressure regulator set to 150 psig (1034 kPa) and purge the hose.
   • Open manifold gauge valves to break the vacuum in the line set and indoor unit.
   • Close manifold gauge valves.
D Shut off the nitrogen cylinder and remove the manifold gauge hose from the cylinder. Open the manifold gauge valves to release the nitrogen from the line set and indoor unit.
E Reconnect the manifold gauge to the vacuum pump, turn the pump on, and continue to evacuate the line set and indoor unit until the absolute pressure does not rise above 500 microns (29.9 inches of mercury) within a 20-minute period after shutting off the vacuum pump and closing the manifold gauge valves.
F When the absolute pressure requirement above has been met, disconnect the manifold hose from the vacuum pump and connect it to a cylinder of HFC-410A positioned to deliver liquid refrigerant. Open the manifold gauge valve 1 to 2 psig in order to release the vacuum in the line set and indoor unit.
G Perform the following:
   • Close manifold gauge valves.
   • Shut off HFC-410A cylinder.
   • Reinstall service valve cores by removing manifold hose from service valve. Quickly install cores with core tool while maintaining a positive system pressure.
   • Replace stem caps and finger tighten them, then tighten an additional one-sixth (1/6) of a turn as illustrated.

WARNING!
Possible equipment damage. Avoid deep vacuum operation. Do not use compressors to evacuate a system. Extremely low vacuum can cause internal arcing and compressor failure. Damage caused by deep vacuum operation will void warranty.
STEP 5 -- ELECTRICAL -- Circuit Sizing and Wire Routing

In the U.S.A., wiring must conform with current local codes and the current National Electric Code (NEC). In Canada, wiring must conform with current local codes and the current Canadian Electrical Code (CEC).

Refer to the furnace or air handler installation instructions for additional wiring application diagrams and refer to unit nameplate for minimum circuit ampacity and maximum overcurrent protection size.

24VAC TRANSFORMER

Use the transformer provided with the furnace or air handler for low-voltage control power (24VAC - 40 VA minimum)

**WARNING**

Electric Shock Hazard. Can cause injury or death. Unit must be grounded in accordance with national and local codes.

Line voltage is present at all components when unit is not in operation on units with single-pole contactors. Disconnect all remote electric power supplies before opening access panel. Unit may have multiple power supplies.

**NOTE — 24VAC, Class II circuit connections are made in the control panel.**

2 INSTALL THERMOSTAT

Install room thermostat (ordered separately) on an inside wall approximately in the center of the conditioned area and 5 feet (1.5m) from the floor. It should not be installed on an outside wall or where it can be affected by sunlight or drafts.

**NOTE — Units are approved for use only with copper conductors. Ground unit at disconnect switch or connect to an earth ground.**

**FIGURE 11**
A. Run 24VAC control wires through cutout with grommet.
B. Run 24VAC control wires through wire tie.
C. Make 24VAC control wire connections using field provided wire nuts.
D. Tighten wire tie to security 24V control wiring.

NOTE - FOR PROPER VOLTAGES, SELECT THERMOSTAT WIRE (CONTROL WIRES) GAUGE PER TABLE ABOVE.
NOTE - WIRE TIE PROVIDES LOW VOLTAGE WIRE STRAIN RELIEF AND MAINTAINS SEPARATION OF FIELD-INSTALLED LOW AND HIGH VOLTAGE CIRCUITS.
NOTE - DO NOT BUNDLE ANY EXCESS 24VAC CONTROL WIRES INSIDE CONTROL BOX.

### Table: Wire Run Length

<table>
<thead>
<tr>
<th>Wire Run Length</th>
<th>AWG</th>
<th>Insulation Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>LESS THAN 100' (30 METERS)</td>
<td>18</td>
<td>TEMPERATURE RATING</td>
</tr>
<tr>
<td>MORE THAN 100' (30 METERS)</td>
<td>16</td>
<td>35ºC MINIMUM.</td>
</tr>
</tbody>
</table>

24VAC Control Wiring Diagrams (Field Installed)

NOTE - Refer to furnace, blower coil and accessory instructions for additional wiring configurations with other optional controls.
Charging

The XC14 unit is factory-charged with enough HFC-410A refrigerant to accommodate a 15-foot length of refrigerant piping. Charge should be checked and adjusted using the tables provided on the charging procedure sticker on the unit access panel. Detailed information is given in the XC14 Installation and Service Procedures manual, which is available on DaveNet.

IMPORTANT!

Some scroll compressors have an internal vacuum protector that will unload scrolls when suction pressure goes below 20 psig. A hissing sound will be heard when the compressor is running unloaded. Protector will reset when low pressure in system is raised above 40 psig. DO NOT REPLACE COMPRESSOR.

XC14 Start-Up and Performance Checklist

<table>
<thead>
<tr>
<th>Customer</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indoor Unit Model</td>
<td>Serial</td>
</tr>
<tr>
<td>Outdoor Unit Model</td>
<td>Serial</td>
</tr>
<tr>
<td>Notes:</td>
<td></td>
</tr>
</tbody>
</table>

### START UP CHECKS

**Refrigerant Type:**

**Rated Load Amps:**

**Actual Amps:**

**Rated Volts:**

**Actual Volts:**

**Condenser Fan Full Load Amps:**

**Actual Amps:**

### COOLING MODE

**Suction Pressure:**

**Liquid Pressure:**

**Supply Air Temperature:**

**Ambient Temperature:**

**Return Air Temperature:**

### System Refrigerant Charge

(Refer to manufacturer’s information on unit or installation instructions for required subcooling and approach temperatures.)

**Subcooling:**

\[
A - B = \text{SUBCOOLING}
\]

Saturated Condensing Temperature (A) minus Liquid Line Temperature (B)

**Approach:**

\[
A - B = \text{APPROACH}
\]

Liquid Line Temperature (A) minus Outdoor Air Temperature (B)

**Indoor Coil Temperature Drop (18 to 22°F):**

**Return Air Temperature:**

**Supply Air Temperature:**

\[
A - B = \text{COIL TEMP DROP}
\]

### HIGH PRESSURE SWITCH (S4)

This unit is equipped with a high pressure switch which is located on the liquid line. The SPST, normally closed pressure switch opens when liquid line pressure rises above the factory setting of 590 ± 15 psig and automatically resets at 418 ± 15 psig.
**Homeowners Information**

**CAUTION**
Before attempting to perform any service or maintenance, turn the electrical power to unit OFF at disconnect switch.

Cleaning of the outdoor unit's coil should be performed by a licensed professional service technician (or equivalent). Contact your dealer and set up a schedule (preferably twice a year, but at least once a year) to inspect and service your outdoor unit. The following maintenance may be performed by the homeowner.

**IMPORTANT !**
Sprinklers and soaker hoses should not be installed where they could cause prolonged exposure to the outdoor unit by treated water. Prolonged exposure of the unit to treated water (i.e., sprinkler systems, soakers, waste water, etc.) will corrode the surface of steel and aluminum parts, diminish performance and affect longevity of the unit.

Outdoor Coil
The outdoor unit must be properly maintained to ensure its proper operation.

- Please contact your dealer to schedule proper inspection and maintenance for your equipment.
- Make sure no obstructions restrict airflow to the outdoor unit.
- Grass clippings, leaves, or shrubs crowding the unit can cause the unit to work harder and use more energy.
- Keep shrubbery trimmed away from the unit and periodically check for debris which collects around the unit.
- Keep snow level below the louvered panels to ensure proper performance.

Routine Maintenance
In order to ensure peak performance, your system must be properly maintained. Clogged filters and blocked airflow prevent your unit from operating at its most efficient level.  

*NOTE — The filter and all access panels must be in place any time the unit is in operation. If you are unsure about the filter required for your system, call your Lennox dealer for assistance.*

A.. Ask your Lennox dealer to show you where your indoor unit's filter is located. It will be either at the indoor unit (installed internal or external to the cabinet) or behind a return air grille in the wall or ceiling. Check the filter monthly and clean or replace it as needed.

B.. Disposable filters should be replaced with a filter of the same type and size.

C.. The indoor evaporator coil is equipped with a drain pan to collect condensate formed as your system removes humidity from the inside air. Have your dealer show you the location of the drain line and how to check for obstructions. (This would also apply to an auxiliary drain, if installed.)

Thermostat Operation
See the ComfortSense® 7000 thermostat homeowner manual for instructions on how to operate your thermostat.

Preservice Check
If your system fails to operate, check the following before calling for service:

- Verify room thermostat settings are correct.
- Verify that all electrical disconnect switches are ON.
- Check for any blown fuses or tripped circuit breakers.
- Verify unit access panels are in place.
- Verify air filter is clean.
- If service is needed, locate and write down the unit model number and have it handy before calling.