



#### RETAIN THESE INSTRUCTIONS FOR FUTURE REFERENCE

### General

This EL16XC1 outdoor air conditioner **with all-aluminum coil** 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 EL16XC1 Product Specifications bulletin (EHB) for approved indoor component match ups.

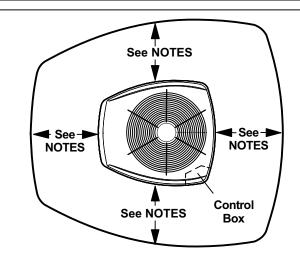
These instructions are intended as a general guide and do not supersede local codes in any way. Consult authorities having jurisdiction before installation.

**IMPORTANT:** Special procedures are required for cleaning the aluminum coil in this unit. See page 15 in this instruction for information.

### NOTICE !

For more in-depth information, consult the Installation and Service Procedures manual, available as Corp. 1503-L7 on LennoxPros.com or through the Technical Support department at 800-453-6669.

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



# INSTALLATION

### Elite<sup>®</sup> Series EL16XC1 Units

AIR CONDITIONER 507525-01 02/2019

# **A**WARNING

Improper installation, adjustment, alteration, service or maintenance can cause property damage, personal injury or loss of life.

Installation and service must be performed by a licensed professional installer (or equivalent) or service agency.

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As with any mechanical equipment, contact with sharp sheet metal edges can result in personal injury. Take care while handling this equipment and wear gloves and protective clothing.

#### 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.

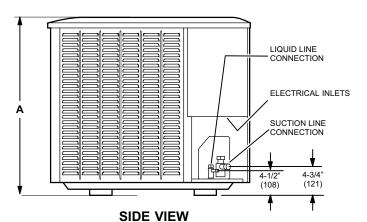
A clearance of 24 in. must be maintained between two units.

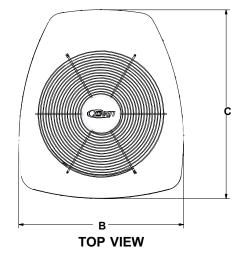
48 in. clearance required on top of unit.

**NOTICE:** Specific applications may require adjustment of the listed installation clearances to provide protection for the unit from physical damage or to avoid conditions which limit operating efficiency. (Example: Clearances may have to be increased to prevent snow or ice from falling on the top of the unit. Additional clearances may also be required to prevent air recirculation when the unit is installed under a deck or in another tight space.)





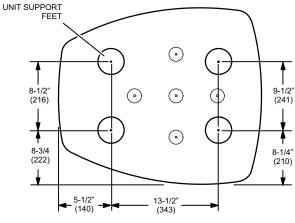




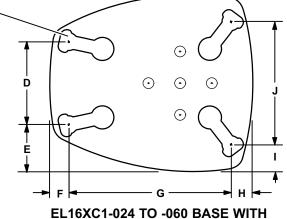
EL16XC1 Dimensions - in. (mm) Model Α В С D Ε F G Н T J 27 28 EL16XC1-018-230A 31 (787) See EL16XC1-018 base section below. (686) (711) 30-1/2 35 13-7/8 7-3/4 3-1/4 27-1/8 3-5/8 4-1/2 20-5/8 EL16XC1-024-230A 31 (787) (889) (197) (83) (689) (524) (775)(352) (92) (114) EL16XC1-030-230A EL16XC1-041-230A 3-1/4 30-1/2 35 13-7/8 7-3/4 27-1/8 3-5/8 4-1/2 20-5/8 39 (991) EL16XC1-042-230A (775) (889) (352)(197)(83) (689) (92) (114)(524) EL16XC1-048-230A 30-1/2 35 13-7/8 7-3/4 3-1/4 27-1/8 3-5/8 4-1/2 20-5/8 EL16XC1-036-230B 31 (787) (889) (775) (352) (197)(83) (689) (92) (114)(524) 30-1/2 13-7/8 7-3/4 3-1/4 27-1/8 20-5/8 35 3-5/8 4-1/2 EL16XC1-036-230C 35 (889) (889) (689) (775) (352) (197) (83) (92) (114)(524) EL16XC1-047-230A 35 (889) 35-1/2 39-1/2 16-7/8 8-3/4 3-1/8 30-3/4 4-5/8 3-3/4 26-7/8 (902) (1003) (429) (222) (79) (781) (117) (95) (683) EL16XC1-060-230A 45 (1143)

UNIT SUPPORT

FEET



EL16XC1-018 BASE SECTION (SMALL)



ELONGATED LEGS

### STEP 1 -- SETTING THE UNIT (Continued) -- Unit Placement

### 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.

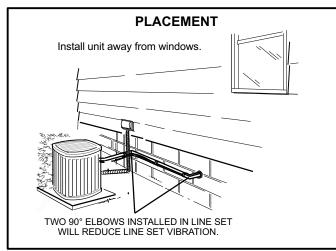


FIGURE 2

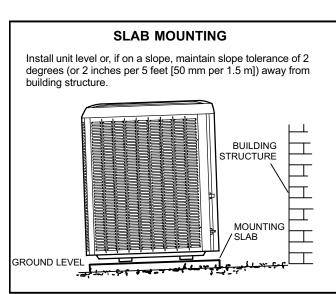
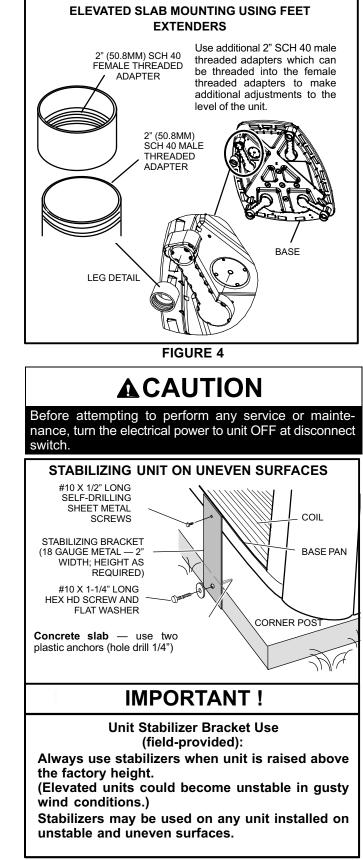


FIGURE 3



**FIGURE 5** 

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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 LennoxPros.com. 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.

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When using a high pressure gas such as nitrogen to pressurize a refrigeration or air conditioning system, use a regulator that can control the pressure down to 1 or 2 psig (6.9 to 13.8 kPa).

# A WARNING

Refrigerant can be harmful if it is inhaled. Refrigerant must be used and recovered responsibly. Failure to follow this warning may result in personal injury or death.

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Fire, Explosion and Personal Safety Hazard. Failure to follow this warning could result in damage, personal injury or death. Never use oxygen to pressurize or purge refrigeration lines. Oxygen, when exposed to a spark or open flame, can cause fire and/or an explosion, that could result in property damage, personal injury or death.

# **A** WARNING

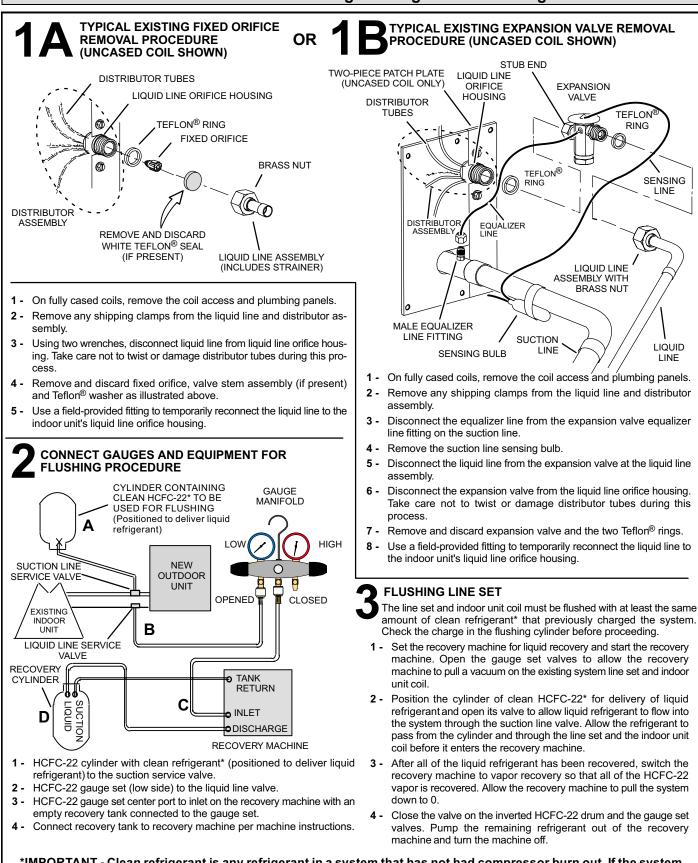
Polyol ester (POE) oils used with HFC-410A refrigerant absorb moisture very quickly. It is very important that the refrigerant system be kept closed as much as possible. DO NOT remove line set caps or service valve stub caps until you are ready to make connections.

TABLE 1
REFRIGERANT LINE SET — INCHES (MM)

Valve Size Connections		Recommended Line Sets			
Liquid Line	Suction Line	L15 Line Set Model	Line Set Length	Catalog Number	
18-230 24-230 3/8" (10 mm) 30-230	3/4" (19 mm)	L15-41-20	20 feet (6.1 m)	89J56	
		L15-41-30	30 feet (9.1 m)	89J57	
		L15-41-40	40 feet (12.2 m)	89J58	
		L15-41-50	50 feet (15.2 m)	89J59	
		L15-65-30	30 feet (9.1 m)	89J60	
3/8" (10 mm)	7/8" (22 mm)	L15-65-40	40 feet (12.2 m)	89J61	
		L15-65-50	50 feet (15.2 m)	89J62	
3/8" (10 mm)	1-1/8" (29 mm) *	Field-fabricated	N/A	N/A	
	Liquid Line 3/8" (10 mm) 3/8" (10 mm)	Liquid Line Suction Line   3/8" (10 mm) 3/4" (19 mm)   3/8" (10 mm) 7/8" (22 mm)	Liquid Line Suction Line L15 Line Set Model   3/8" (10 mm) 3/4" (19 mm) L15-41-20   3/8" (10 mm) 3/4" (19 mm) L15-41-30   115-41-20 L15-41-30   L15-41-30 L15-41-30   115-41-50 L15-41-50   3/8" (10 mm) 7/8" (22 mm) L15-65-30   3/8" (10 mm) 7/8" (22 mm) L15-65-50	Liquid Line Suction Line L15 Line Set Model Line Set Length   3/8" (10 mm) 3/4" (19 mm) L15-41-20 20 feet (6.1 m)   3/8" (10 mm) 3/4" (19 mm) L15-41-30 30 feet (9.1 m)   L15-41-40 40 feet (12.2 m) L15-41-50 50 feet (15.2 m)   3/8" (10 mm) 7/8" (22 mm) L15-65-30 30 feet (9.1 m)   3/8" (10 mm) 7/8" (22 mm) L15-65-40 40 feet (12.2 m)	

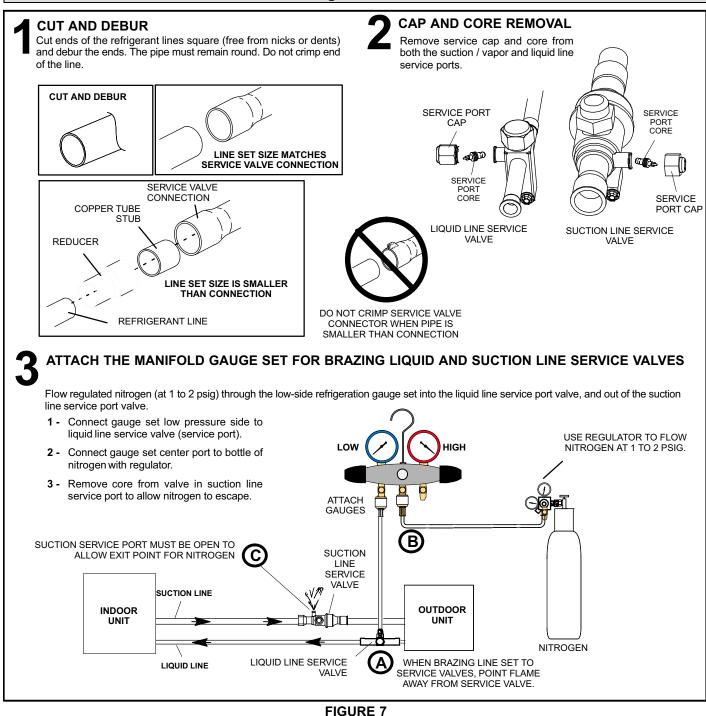
**NOTE** - When installing refrigerant lines longer than 50 feet, refer to the Refrigerant Piping Design and Fabrication Guidelines manual available on LennoxPros.com (Corp. 9351-L9), or contact the Technical Support Department Product Application group for assistance. **NOTE** - For new or replacement line set installation, refer to Service and Application Note - Corp. 9112-L4 (C-91-4).

### **STEP 2 -- REFRIGERANT PIPING -- Removing Existing Indoor Metering Device**



\*IMPORTANT - Clean refrigerant is any refrigerant in a system that has not had compressor burn out. If the system has experienced burn out, it is recommended that the existing line set and indoor coil be replaced.

### **STEP 2 -- REFRIGERANT PIPING -- Brazing Procedures**



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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.

### 



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.

### 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.

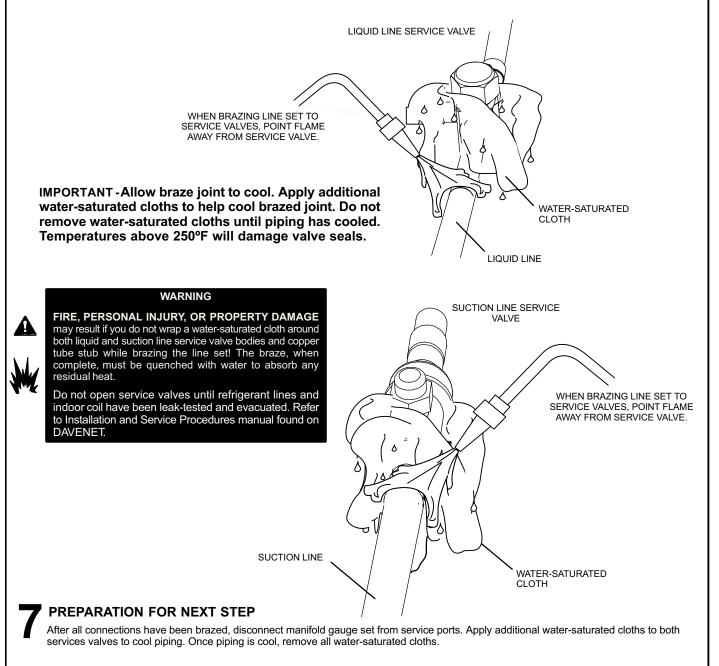


### FLOW NITROGEN

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 valve stem port. See steps **3A**, **3B** and **3C** on manifold gauge set connections.

### BRAZE LINE SET

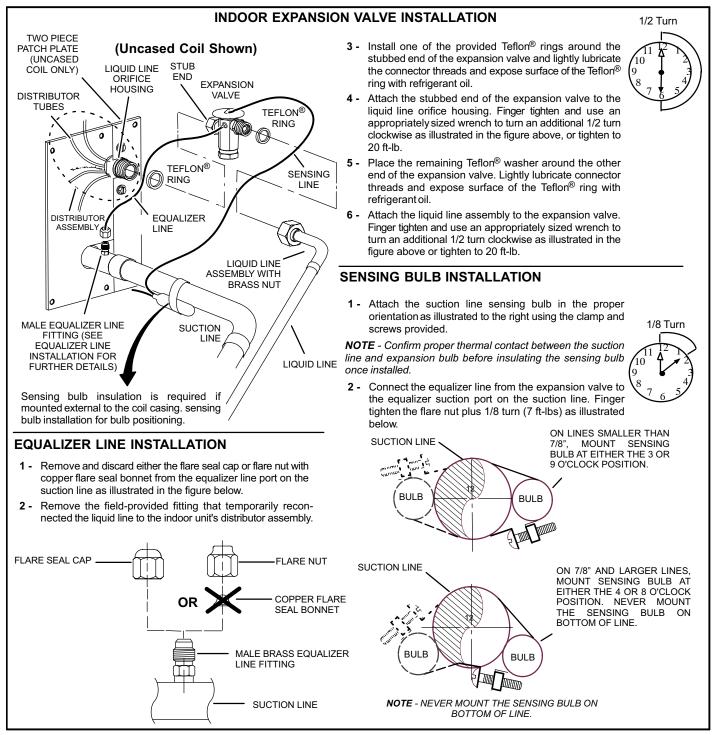
Wrap both service valves with water-saturated cloths as illustrated here and as mentioned in step 4, before brazing to line set. Cloths must remain water-saturated throughout the brazing and cool-down process.

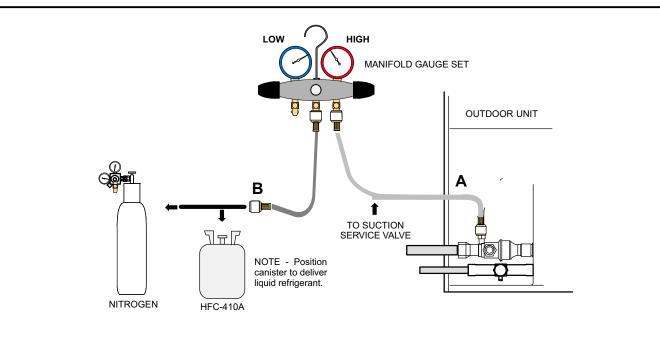


**FIGURE 7 (CONTINUED)** 

### STEP 2 — REFRIGERANT PIPING — Installing Indoor Expansion Valve

This outdoor unit is designed for use in systems that use a expansion valve metering device. See the *EL16XC1 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.





#### CONNECT GAUGE SET

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

**NOTE** - Normally, the high pressure hose is connected to the liquid line port. However, connecting it to the suction 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.

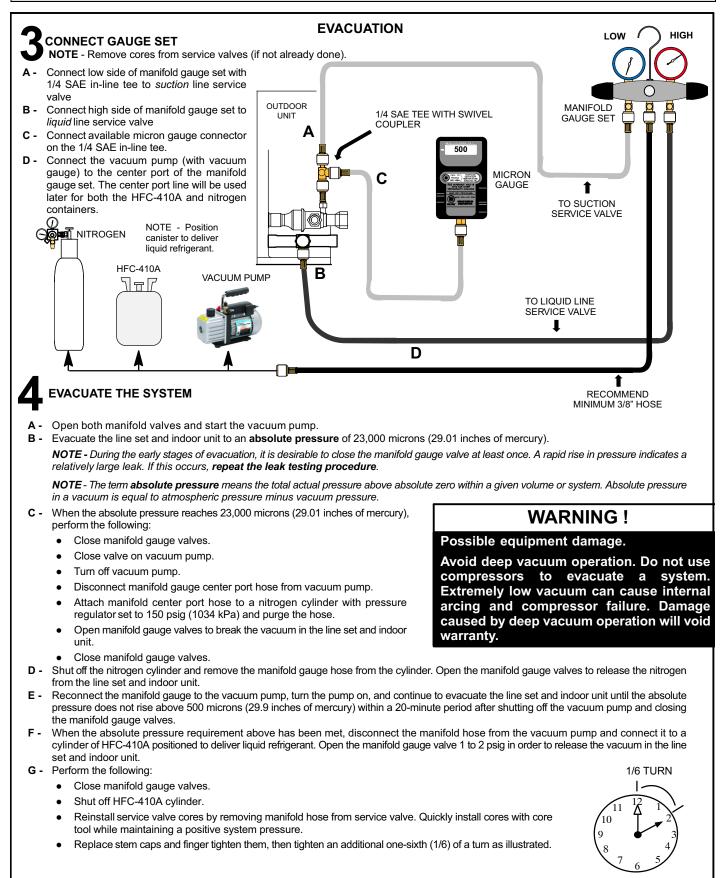
**NOTE** - Later in the procedure, the HFC-410A container will be replaced by the nitrogen container.

### 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.

### **STEP 3 -- LEAK TEST AND EVACUATION (Continued)**



### STEP 4 -- 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)

# A WARNING

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

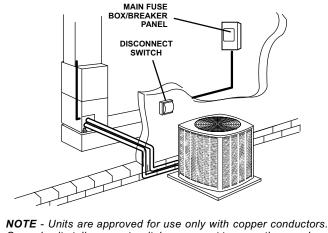
Line voltage is present at all components when unit is not in operation on units with single-pole contactors. Disconnect all remote electric power supplies before opening access panel. Unit may have multiple power supplies.

### **IMPORTANT** !

If unit is equipped with a crankcase heater, it should be energized 24 hours before unit start-up to prevent compressor damage as a result of slugging.

#### SIZE CIRCUIT AND INSTALL SERVICE **DISCONNECT SWITCH**

Refer to the unit nameplate for minimum circuit ampacity, and maximum fuse or circuit breaker (HACR per NEC). Install power wiring and properly sized disconnect switch



Ground unit at disconnect switch or connect to an earth ground.

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Fire Hazard. Use of aluminum wire with this product may result in a fire, causing property damage, severe injury or death. Use copper wire only with this product.

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Failure to use properly sized wiring and circuit breaker may result in property damage. Size wiring and circuit breaker(s) per Product Specifications bulletin (EHB) and unit rating plate.



electroniccomponents. Takecareduring unit installation and service to protect the unit's electronic controls. Precautions ELECTROSTATIC will help to avoid control exposure to electrostatic discharge by putting the unit, the control and the technician at the Precautions and same electrostatic potential. Touch hand and all tools on an unpainted unit surface beforeperforminganyserviceprocedure to neutralize electrostatic charge.

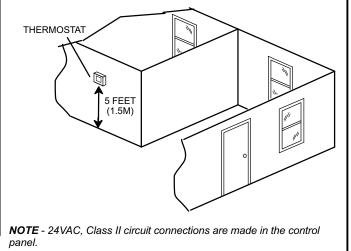
DISCHARGE

(ESD)

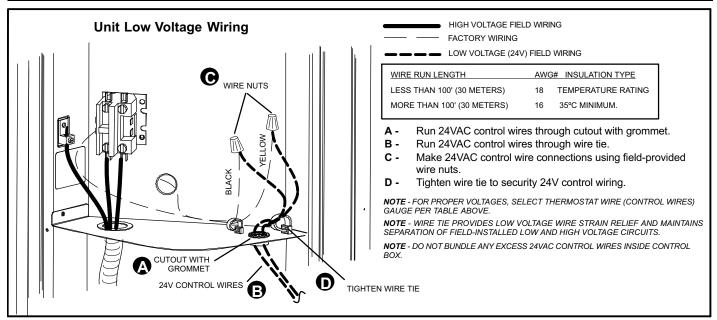
Procedures

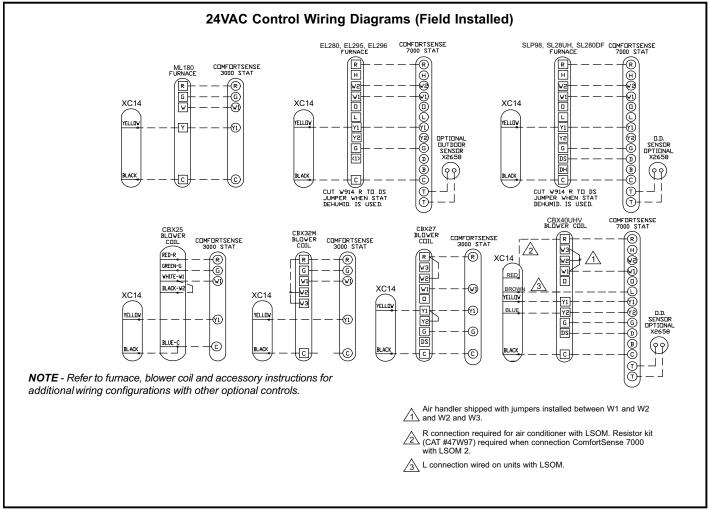
### **INSTALL THERMOSTAT**

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.



### STEP 4 -- ELECTRICAL (CONTINUED) -- Field Wiring





**STEP 5 -- UNIT START-UP** 

# IMPORTANT

If unit is equipped with a crankcase heater, it should be energized 24 hours before unit start-up to prevent compressor damage as a result of slugging.

- 1 Rotate fan to check for binding.
- 2 Inspect all factory- and field-installed wiring for loose connections.
- 3 After evacuation is complete, open the liquid line and suction line service valve stems to release the refrigerant charge (contained in outdoor unit) into the system.
- 4 Replace the stem caps and tighten to the value listed in table 2.
- 5 Check voltage supply at the disconnect switch. The voltage must be within the range listed on the unit's nameplate. If not, do not start the equipment until you have consulted with the power company and the voltage condition has been corrected.
- 6 Connect manifold gauge set for testing and charging using figure 11 as a guideline.
- 7 Set the thermostat for a cooling demand. Turn on power to the indoor indoor unit and close the outdoor unit disconnect switch to start the unit.
- 8 Recheck voltage while the unit is running. Power must be within range shown on the unit nameplate.
- 9 Check system for sufficient refrigerate using the procedures outlined in under *System Refrigerant*.

# OPERATING MANIFOLD GAUGE SET AND SERVICE VALVES

The liquid and suction line service valves are used for removing refrigerant, flushing, leak testing, evacuating, checking charge and charging.

Each valve is equipped with a service port which has a factory-installed valve stem. Figures 14 and 15 provide information on how to access and operate both angle- and balltype service valves.

#### **Torque Requirements**

When servicing or repairing heating, ventilating, and air conditioning components, ensure the fasteners are appropriately tightened. Table 2 lists torque values for fasteners.

TABLE 2						
TORQUE	REQUIREMENTS					

Parts	Recommended Torque			
Service valve cap	8 ft lb.	11 NM		
Sheet metal screws	16 in lb.	2 NM		
Machine screws #10	28 in lb.	3 NM		
Compressor bolts	90 in lb.	10 NM		
Gauge port seal cap	8 ft lb.	11 NM		

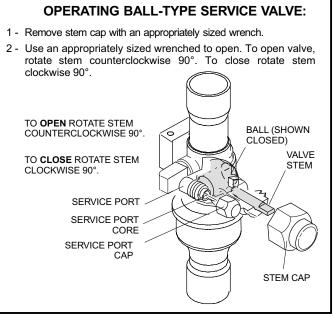
# IMPORTANT

To prevent stripping of the various caps used, the appropriately sized wrench should be used and fitted snugly over the cap before tightening.

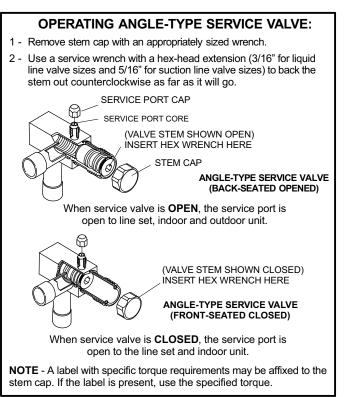
### Using Manifold Gauge Set

When checking the system charge, only use a manifold gauge set that features low loss anti-blow back fittings.

Manifold gauge set used with HFC-410A refrigerant systems must be capable of handling the higher system operating pressures. The gauges should be rated for use with pressures of 0 - 800 psig on the high side and a low side of 30" vacuum to 250 psig with dampened speed to 500 psi. Gauge hoses must be rated for use at up to 800 psig of pressure with a 4000 psig burst rating.



### **FIGURE 14**



### TO ACCESS SERVICE PORT:

A service port cap protects the service port core from contamination and serves as the primary leak seal.

- 1 Remove service port cap with an appropriately sized wrench.
- 2 Connect gauge set to service port.
- 3 When testing is completed, replace service port cap and tighten as follows:
  - With torque wrench: Finger tighten and torque cap per table 2.
  - Without torque wrench: Finger tighten and use an appropriately sized wrench to turn an additional 1/6 turn clockwise.



#### **Reinstall Stem Cap:**

Stem cap protects the valve stem from damage and serves as the primary seal. Replace the stem cap and tighten as follows:

1/12 TURN

- With Torque Wrench: Finger tighten and then torque cap per table 2.
- Without Torque Wrench: Finger tighten and use an appropriately sized wrench to turn an additional 1/12 turn clockwise.



#### **FIGURE 16**

### **Checking and Adding System Charge**

The EL16XC1 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 EL16XC1 Installation and Service Procedures manual (Corp1503-L7), 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 COMPRES-SOR.

### **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  $590 \pm 15$  psig and automatically resets at  $418 \pm 15$  psig.

**Homeowner Information** 

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Before attempting to perform any service or maintenance, turn the electrical power to unit OFF at disconnect switch. 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. The system should be inspected and serviced before each cooling season by a licensed professional HVAC service technician (or equivalent).

#### **Homeowner Maintenance**

The following maintenance may be performed by the homeowner.

- Contact a licensed professional HVAC technician to schedule a yearly inspection and maintenance appointment for your equipment.
- Check the indoor unit filter each month and replace the filter, if necessary.

Have your Lennox dealer show you where your indoor unit 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.

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

 Check the indoor unit drain line for obstructions monthly during the cooling season.

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.)

- Check the area around the outdoor unit monthly and remove any obstructions that may restrict airflow to the outdoor unit. This would include grass clippings, leaves, or papers that may have settled around the unit.
- Trim shrubbery away from the unit and periodically check for debris which collects around the unit.
- During the winter months, keep the snow level below the louvered panels.

**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.

### **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.

#### **Thermostat Operation**

See the thermostat owner's 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.

#### **Professional Maintenance**

Your heating and air conditioning system should be inspected and maintained twice each year (before the start of the heating and cooling seasons) by a licensed professional HVAC technician. You can expect the technician to check the following items. **These checks may only be conducted by a licensed professional HVAC technician. Outdoor Unit** 

- Inspect component wiring for loose, worn or damaged connections. Also check for any rubbing or pinching of wires. Confirm proper voltage plus amperage for outdoor unit.
- 2 Check the cleanliness of outdoor fan and blade assemblies. Check condition of fan blades (cracks). Clean or replace them, if necessary.
- 3 Inspect base pan drains for debris and clean as necessary.
- Inspect the condition of refrigerant piping and confirm that pipes are not rubbing copper-to-copper. Also, check the condition of the insulation on the refrigerant lines. Repair, correct, or replace as necessary.
- 5 Test capacitor. Replace as necessary.
- 6 Inspect contactor contacts for pitting or burn marks. Replace as necessary.
- 7 Check outdoor fan motor for worn bearings/bushings. Replace as necessary.
- 8 Inspect and **clean** outdoor coils, if necessary and note any damage to coils or signs of leakage.

### NOTICE !

Failure to follow instructions will cause damage to the unit.

This unit is equipped with an aluminum coil. Aluminum coils may be damaged by exposure to solutions with a pH below 5 or above 9. The aluminum coil should be cleaned using potable water at a moderate pressure (less than 50psi). If the coil cannot be cleaned using water alone, Lennox recommends use of a coil cleaner with a pH in the range of 5 to 9. The coil must be rinsed thoroughly after cleaning. In coastal areas, the coil should be cleaned with potable water several times per year to avoid corrosive buildup (salt).

#### Indoor Unit (Air Handler or Furnace)

- Inspect component wiring for loose, worn or damaged connections. Confirm proper voltage plus amperage for indoor unit.
- 2 Inspect and clean or replace air filters in indoor unit.
- 3 Check the cleanliness of indoor blower and clean blower, if necessary.
- Inspect the evaporator coil (Indoor) drain pans and condensate drains for rust, debris, obstructions, leaks or cracks. Pour water in pans to confirm proper drainage from the pan through to the outlet of the pipe. Clean or replace as necessary.
- 5 Inspect and clean evaporator (indoor) coil, if necessary.
- 6 Inspect the condition of the refrigerant lines and confirm that pipes are not rubbing copper-to-copper. Also, ensure that refrigerant pipes are not being affected by indoor air contamination. Check condition of insulation on the refrigerant lines. Repair, correct, or replace as necessary.
- 7 Inspect the duct system for leaks or other problems. Repair or replace as necessary.
- 8 Check for bearing/bushing wear on indoor blower motor. Replace as necessary.
- 9 Indoor unit inspections of gas- or oil-fired furnaces will also include inspection and cleaning of the burners and and a full inspection of the gas valve, heat exchanger and flue (exhaust) system.

#### General System Test with System Operating

- Your technician should perform a general system test. He will turn on the air conditioner to check operating functions such as the start-up and shut-off operation. He will also check for unusual noises or odors, and measure indoor/outdoor temperatures and system pressures as needed. He will check the refrigerant charge per the charging sticker information on the outdoor unit.
- 2 Verify that system total static pressure and airflow settings are within specific operating parameters.
- 3 Verify correct temperature drop across indoor coil.

EL16XC1 Start-Up and Performance Checklist							
Customer	Addres	s					
Indoor Unit Model							
Outdoor Unit Model							
Notes:							
START UP CHECKS							
Refrigerant Type:	-						
Rated Load Amps:	Actual Amps F	ated Vo	olts		Ac	tual Volts	
Condenser Fan Full Load Amps	Actual Amps:						
Suction Pressure:	Liquid Pressure:						
Supply Air <b>Temperature</b> :	_ Ambient <b>Temperature:</b> Return	Air: <b>Te</b>	mpera	iture	:		
System Refrigerant Charge (Refer to manufacturer's information on unit or installation instructions for required subcooling and approach temperatures.)							
Subcooling:		А	_	В	=	SUBCOOLING	
s	Saturated Condensing Temperature ( <i>minus</i> Liquid Line Temperature (						
Approach:		А	_	В	=	APPROACH	
	Liquid Line Temperature ( <i>minus</i> Outdoor Air Temperature (						
Indoor Coil Temperature Drop (18 to 2	2°F)	А		В	=	COIL TEMP DROP	
	Return Air Temperature ( <i>minus</i> Supply Air Temperature (						