



THIS MANUAL MUST BE LEFT WITH THE HOMEOWNER FOR FUTURE REFERENCE

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 XC21 outdoor unit is designed for use with HFC-410A refrigerant only. This unit must be installed with an approved indoor unit. See the Lennox XC21 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.

STEP 1 -- SETTING THE UNIT -- Clearances

INSTALLATION INSTRUCTIONS

Dave Lennox Signature® Collection XC21 System

AIR CONDITIONERS 506923-01 7/2012 Supersedes 4/2012

Technical Publications
Litho U.S.A.

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.

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

NOTICE !

For more in-depth information, consult the Installation and Service Procedures manual, available as Corp.1007-L2 on DaveNet or through the Technical Support department at 800-453-6669.



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BASE WITH ELONGATED LEGS

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

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.

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

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

ELEVATED SLAB MOUNTING USING FEET EXTENDERS Use additional 2" SCH 40 male 2" (50.8MM) SCH 40 threaded adapters which can FEMALE THREADED be threaded into the female ADAPTER threaded adapters to make additional adjustments to the level of the unit. 2" (50.8MM) SCH 40 MALE THREADED ADAPTER BASE LEG DETA **FIGURE 4**



FIGURE 5

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 Dave-Net. 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).

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).

 TABLE 1

 REFRIGERANT LINE SET — INCHES (MM)

Models	Liquid Line	Vapor/ Suction Line	L15 Line Set			
-024, -036 and-048	3/8 (10)	7/8 (22)	L15 line set sizes are dependent on unit match up. See XP21 Engineering Handbook to determine correct line set sizes.			
-060	3/8 (10)	1-1/8" (29)	Field Fabricated			
NOTE — Some applications may required a field-provided 7/8" to 1-1/8" adapter.						

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.



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).

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.



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.

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.

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 COM-PRESSOR.

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

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



- 2. HCFC-22 gauge set (low side) to the liquid line valve.
- HCFC-22 gauge set center port to inlet on the recovery machine with an 3 empty recovery tank connected to the gauge set.
- 4. Connect recovery tank to recovery machine per machine instructions.



- On fully cased coils, remove the coil access and plumbing panels.
- 2. Remove any shipping clamps from the liquid line and distributor assembly
- 3. Disconnect the equalizer line from the check expansion valve equalizer line fitting on the vapor line.
- 4. Remove the vapor line sensing bulb.
- 5. Disconnect the liquid line from the check expansion valve at the liquid line assembly.
- Disconnect the check expansion valve from the liquid line orifice 6 housing. Take care not to twist or damage distributor tubes during this process.
- Remove and discard check expansion valve and the two Teflon[®] rings. 7.
- 8 Use a field-provided fitting to temporarily reconnect the liquid line to the indoor unit's liquid line orifice housing.

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.
- Set the recovery machine for liquid recovery and start the recovery 1. 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.
- Position the cylinder of clean HCFC-22 for delivery of liquid refrigerant 2. 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.
- After all of the liquid refrigerant has been recovered, switch the 3. 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.
- Close the valve on the inverted HCFC-22 drum and the gauge set 4. valves. Pump the remaining refrigerant out of the recovery machine and turn the machine off.

FIGURE 6

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.

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 under 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 / vapor valve stem port. See steps **3A**, **3B** and **3C** on previous page and below for manifold gauge setup.

BRAZE LINE SET

Cloths must remain water-saturated throughout the brazing and cool-down process.

- 1. Braze liquid line to liquid line service valve.
- 2. Braze suction / vapor line to suction / vapor service valve.



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.



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.



FIGURE 8

STEP 3 -- INSTALLING INDOOR EXPANSION VALVE

This outdoor unit is designed for use in systems that include an expansion valve metering device. See the *XC21 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.



EQUALIZER LINE INSTALLATION

bulb positioning.

- 1. 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.
- 2. Remove the field-provided fitting that temporarily reconnected the liquid line to the indoor unit's distributor assembly.



- Install one of the provided Teflon[®] rings around the stubbed end of the expansion valve and use refrigerant oil to lightly lubricate the connector threads and exposed surface of the Teflon[®] ring.
- 4. Attach the stubbed end of the expansion valve to the liquid line orifice housing. Finger tighten, then use an appropriately sized wrench to turn an additional 1/2 turn clockwise as illustrated in the figure to the right, or tighten to 20 ft-lb.



- 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.
- 6. Attach the liquid line assembly to the expansion valve. Finger tighten, then 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

- Attach the vapor line sensing bulb in the proper orientation as illustrated below using the clamp and screws provided.
- NOTE Though it is preferred to have the sensing bulb installed on a horizontal run of the vapor line, installation on a vertical run of piping is acceptable if necessary.

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

3. Connect the equalizer line from the expansion valve to the equalizer vapor port on the vapor line. Finger tighten the flare nut, then tighten an additional 1/8 turn (7 ft-lbs) as illustrated to the right.





FIGURE 9



- **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 4 -- LEAK TEST AND EVACUATION (Continued)



FIGURE 11

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)

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.

SIZE CIRCUIT AND INSTALL DISCONNECT SWITCH

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



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

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.

ELECTROSTATIC DISCHARGE (ESD) Precautions and Procedures

Electrostatic discharge can affect electronic components. Take care during unit installation and service to protect the unit's electronic controls. Precautions will help to avoid control exposure to electrostatic discharge by putting the unit, the control and the technician at the same electrostatic potential. Touch hand and all tools on an unpainted unit surface before performing any service procedure to neutralize electrostatic charge.



INSTALL THERMOSTAT

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



 $\operatorname{\textbf{NOTE}}$ — 24VAC, Class II circuit connections are made in the control box.

A. ROUTE CONTROL WIRES - NON-COMMUNICATING

Install low voltage control wiring from outdoor to indoor unit and from thermostat to indoor unit. All low voltage wiring must enter unit through provided field-installed busing installed in electrical inlet.

Run 24VAC control wires through hole with grommet. Make 24VAC control wire connections to outdoor control (A175).

NOTE — Do not bundle any excess 24VAC control wires inside control box.

NOTE — Wire tie provides low voltage wire strain relief and maintains separation of field-installed low and high voltage circuits.

NOTE — For proper voltages, select control wires gauge per table below.

WIRE RUN LENGTH	AWG	# INSULATION TYPE
LESS THAN 100' (30 METERS)	18	TEMPERATURE RATING
MORE THAN 100' (30 METERS)	16	35°C MINIMUM.



B. ROUTE CONTROL WIRES — COMMUNICATING

Maximum length of wiring (18 gauge) for all connections on the RSBus is 1500 feet (457 meters). Wires should be color-coded, with a temperature rating of 95°F (35°C) minimum, and solid-core (Class II Rated Wiring). All low voltage wiring must enter unit through provided field-installed busing installed in electrical inlet.

Communicating systems using the icomfort[™] -enabled thermostat require four thermostat wires between the thermostat and the furnace/air handler control and four wires between the outdoor unit and the furnace/air handler control. When a thermostat cable with more than four wires is used, the extra wires must be properly connected to avoid electrical noise (see illustration below).

Use a wire nut to bundle the four unused wires at each end of the cable. Each bundle should also include an additional wire that should be connected on each end to the C terminal as shown in the figure below.



ROUTE HIGH VOLTAGE AND GROUND WIRES

Any excess high voltage field wiring should be trimmed and secured away from any low voltage field wiring. To facilitate a conduit, a cutout is located in the bottom of the control box. Connect conduit to the control box using a proper conduit fitting.



FIGURE 13

STEP 5 -- ELECTRICAL (Continued) -- Outdoor Control (A175) Jumpers and Terminals

Communication System

The jumper settings and link are default settings and ONLY control system operation if configuration settings in the icomfort[™] -enabled thermostat are not available.

Non-Communicating System

The unit will operate based on jumper settings and **R-TO- DS** link on the **MAIN CONTROL**. All unit setting changes must be done at the **MAIN CONTROL**. The Lennox ComfortSense® 7000 thermostat may be used, as well as other non-communicating electronic-only thermostats.

The Lennox icomfort[™]-enabled thermostat must be used in communicating applications.

NOTE — Fan cycling routine when activated will cycle the fan **ON** for five minutes if the outdoor ambient air temperature is between 15°F and 35°F and the compressor has been **OFF** for 25 to 30 minutes. This option is to help reduce the potential for ice build up on the orifice ring during system **OFF** cycles that are greater than 25 to 30 minutes.



FIGURE 14

STEP 5 -- ELECTRICAL (Continued) -- Field Control Wiring

The following two illustrations provide examples of control wiring connections when using a non-communicating thermostat. For examples of control wiring in complete or partial communicating systems, see the icomfort $^{\mathbb{M}}$ -enabled thermostat **Quick Start Guide** which is provided with the thermostat.



- 1. Thermostat T terminals are used for outdoor sensor input. Use for thermostat's outdoor temperature display (optional).
- 2. R to L connection is required for this model when using the ComfortSense® 7000 catalog number Y0349 only. Resistor Kit (catalog number 47W97) required and ordered separately.
- 3. Air handler control ships from factory with metal jumpers installed across W1, W2 and W3. For one-stage electric heat, do not remove factory installed metal jumpers.
- 4. Air handler control ships from factory with metal jumpers installed across W1, W2 and W3. For two-stage electric heat, remove factory installed metal jumper between W1 to W2. Then connect thermostat wire between the air handler control's W2 and the thermostat's W2 terminal.
- 5. Cut on-board link (clippable wire) from Y1-Y2 2 STAGE COMPR for two-stage compressor and two-speed fan operation.
- Cut loop jumper (clippable wire) DS to R on two-stage units for Humiditrol[®] applications. This will slow the outdoor unit's fan speed to a specific RPM. A wire must be installed between the DS terminals on the air handler and outdoor unit controls.
- 7. Cut on-board link (clippable wire) **DS-R** for Humiditrol[®] or Harmony III [™] applications. This will slow the indoor blower motor to the lowest speed setting. See air handler installation instruction or engineering handbook for lowest fan speed information.



- 1. Thermostat T terminals are used for outdoor sensor input. Use for thermostat's outdoor temperature display (optional).
- R to L connection is required for this model when using the ComfortSense[®] 7000 catalog number Y0349 only. Resistor Kit (catalog number 47W97) required and ordered separately.
- 3. Cut on-board link **W915** (clippable wire) for two-stage operation.
- 4. Cut loop jumper (clippable wire) DS to R on two-stage units for Humiditrol[®] applications. This will slow the outdoor unit's fan speed to a specific RPM. A wire must be installed between the DS terminals on the furnace and outdoor unit controls.
- 5. Cut on–board link (clippable wire) **DS–R** for Humiditrol[®] or Harmony III [™] applications. This will slow the indoor blower motor to the lowest speed setting. See furnace installation instruction or engineering handbook for lowest fan speed information.

Charging

The XC21 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 XC21 Installation and Service Procedures manual, which is available on DaveNet.

Start-Up Checklists

TWO-STAGE COMPRESSOR PERFORMANCE

Use this procedure to verify part- and full-load capacity operation of the two-stage compressor.

IMPORTANT !

This performance check is ONLY valid on systems that have clean indoor and outdoor coils, proper airflow over coils, and correct system refrigerant charge. All components in the system must be functioning properly to correctly perform compressor operational check. (Accurate measurements are critical to this test as indoor system loading and outdoor ambient can affect variations between low and high capacity readings).

TOOLS REQUIRED

- · Refrigeration gauge set
- Digital volt/amp meter
- Electronic temperature thermometer
- On-off toggle switch

PROCEDURE

1. Turn main power OFF to outdoor unit.

- 2. Adjust room thermostat set point 5°F above (heating operation) or 5°F below (cooling operation) the room temperature.
- 3. Remove control access panel. Install refrigeration gauges on unit. Attach the amp meter to the common (black wire) wire of the compressor harness. Attach thermometer to discharge line as close as possible to the compressor.
- 4. Turn toggle switch OFF. Install switch in series with Y2 wire from room thermostat. (See note ** in the *Field Operational Checklist* on page 17).
- 5. Cycle main power ON.
- 6. Allow pressures and temperatures to stabilize before taking any reading (may take up to 10 minutes).
- 7. Record all of the readings for the Y1 demand.
- 8. Close switch to energize Y2 demand. Verify power is going to compressor solenoid (see note ** in the *Field Operational Checklist* on page 17).
- 9. Allow pressures and temperatures to stabilize before taking any reading (may take up to 10 minutes).
- 10. Record all of the readings with the Y1 and Y2 demand.
- 11. If temperatures and pressures change in the direction noted in chart, the compressor is properly modulating from low to high capacity. (If no amperage, pressures or temperature readings change when this test is performed, the compressor is not switching between low and high capacity and replacement is necessary.)
- 12. After testing is complete, return unit to original set up.

XC21 Field Operational Checklist								
		Cooling***			Heating***			
Unit Readings	Y1 First Stage	Expected results during Y2 demand (toggle switch ON)	Y2 Second Stage	Y1 First Stage	Expected results during Y2 demand (toggle switch ON)	Y2 Second Stage		
Compressor								
Voltage		Same			Same			
Amperage		Higher			Higher			
Condenser Fan motor								
Amperage		Same or Higher			Same or Higher			
Temperature								
Ambient		Same			Same			
Outdoor Coil Discharge Air		Higher			Lower			
Compressor Discharge Line		Higher			Higher			
Indoor Return Air		Same			Same			
Indoor Coil Discharge Air		Lower			Higher			
Pressures								
Suction (Vapor)		Lower			Down			
Liquid		Higher			Higher			
Note - Unit may have a low ambie from the control when perfo	ent control or co orming this chec	" ntrol that locks in second-si ck.	tage operation	below its set poin	nt. It may be necessary to r	emove a wire		

** On the XC21 units, the System Operation Monitor controls the second-stage solenoid coil in compressor.

*** Cooling Mode Operation - Block outdoor coil to maintain a minimum of 375 psig during testing.

XC21 Start-Up and Performance Checklist									
Customer			Address						
Indoor Unit Model			Serial						
Outdoor Unit Model			Serial						
Solar Module Mfg and Model			_ Serial						
Notes:									
START-UP CHECKS									
Refrigerant Type:									
Rated Load Amps	Actual Amps	Rate	ed Vo	lts		Ac	tual Volts		
Condenser Fan Full Load Amps	Actual Amps:	_							
COOLING MODE									
Vapor Pressure:	Liquid Pressure:	_							
Supply Air Temperature:	Ambient Temperature:	Return Air Temperature:							
HEATING MODE									
Vapor Pressure:	Liquid Pressure:	_							
Supply Air Temperature:	Ambient 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:									
S	aturated Condensing Temperatu <i>minus</i> Liquid Line Temperatu	ure (A) ure (B)	A		В	=	SUBCOOLING		
Approach:	Liquid Line Temperatu minus Outdoor Air Temperatu	ure (A) ure (B)	A	_	В	=	APPROACH		
Indoor Coil Temp. Drop (18 to 22°F)									
	Return Air Temperatu <i>minus</i> Supply Air Temperatu	ure (A) ure (B)	A		В	=	COIL TEMP DROP		

Homeowner Information

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.

- 1. 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.
- 2. Disposable filters should be replaced with a filter of the same type and size.
- 3. 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 $^{\textcircled{\sc 8}}$ 7000 or icomfort $^{\scriptsize \mbox{\tiny TM}}$ -enabled 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.

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