

# EL22KCV

## ELITE® SERIES

Variable Capacity | Precise Comfort® Technology | Quantum™ Coil | **R-454B** | 60Hz

### RESIDENTIAL PRODUCT SPECIFICATIONS (EHB)

2 to 5 Tons

SEER2 up to 22.9

Cooling Capacity | 23,400 to 56,000 Btuh



S40 Smart Wi-Fi  
Communicating Thermostat  
(Not Furnished)

## ELITE® SERIES



2025 COMPLIANT  
REFRIGERANT



### MODEL NUMBER IDENTIFICATION

**EL 22 K C V - 036 - 230 A 01**

**Product Tier**  
EL = Elite® Series

**Nominal SEER2**  
22 = 22.0 to 22.9

**Refrigerant Type**  
K = R-454B

**Unit Type**  
C = Air Conditioner (Condenser)

**Cooling Stages**  
V = Variable Capacity Compressor

**Revision Level**

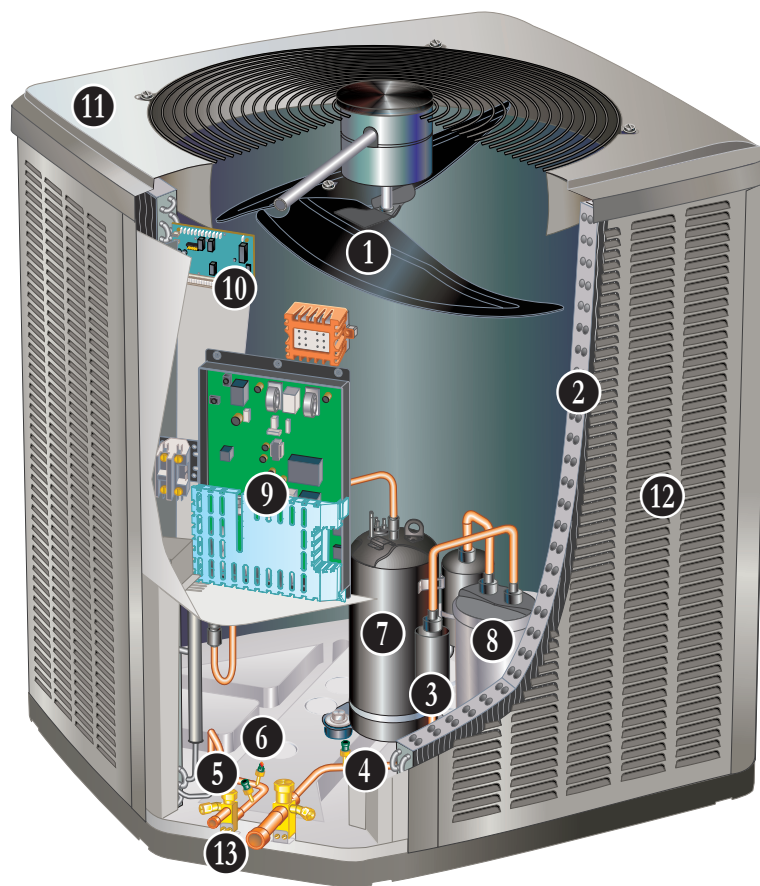
**Ratings Revision Level**

**Voltage**  
230 = 208/230V-1 phase-60Hz

**Nominal Cooling Capacity**  
024 = 2 tons  
036 = 3 tons  
048 = 4 tons  
060 = 5 tons

## FEATURE HIGHLIGHTS

1. Outdoor Coil Fan
2. Quantum™ Coil
3. High Capacity Suction Line Drier
4. Low Pressure Transducer
5. High Pressure Transducer
6. High Pressure Switch
7. Variable Capacity Compressor
8. Accumulator
9. DC Inverter Control
10. Lennox® Communicating Control
11. Composite Unit Top and Base
12. Louvered Steel Coil Protection
13. Refrigerant Line Connections and Access



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## APPROVALS AND WARRANTY

### APPROVALS

- AHRI Standard 210-240-2023 certified
- AHRI Certified system match-ups and expanded ratings, visit [www.LennoxPros.com](http://www.LennoxPros.com)

**NOTE** - AHRI certified ratings are based on the following control conditions:

A Lennox® Communicating thermostat matched with a “communicating” indoor unit.

Any conventional non-communicating thermostat matched with a conventional “non-communicating” indoor unit.

- ENERGY STAR® Certified
- Sound rated to AHRI Standard 270-2008 test conditions
- Tested in Lennox’ Research Laboratory environmental test room
- Rated According to U.S. Department of Energy (DOE) test procedures
- Unit and components ETL, NEC and CEC bonded for grounding to meet safety standards for servicing
- ETL certified (U.S. and Canada)
- ISO 9001 Registered Manufacturing Quality System

### WARRANTY

- Compressor:
  - Limited ten years in residential installations
  - Limited five years in non-residential installations
- All other covered components:
  - Limited five years in residential installations
  - Limited one year in non-residential installations

**NOTE** - Refer to Lennox® Basic Limited Warranty at [www.Lennox.com](http://www.Lennox.com) for additional details.

## FEATURES

### APPLICATIONS

- 2 through 5 tons
- Sound levels as low as 60 dBA
- Single-phase power supply
- Vertical air discharge
- Applicable to indoor air handlers or gas furnaces with indoor add-on coils
- Shipped completely factory assembled, piped and wired

### REFRIGERATION SYSTEM

#### R-454B Refrigerant

- Low GWP (Global Warming Potential)
- Zero ODP (Ozone Depletion Potential)
- Low Toxicity/Lower Flammability - A2L
- Unit is factory pre-charged

**NOTE** - Total system refrigerant charge is dependent on outdoor unit size, indoor unit size and refrigerant line length.

**NOTE** - Refer to the unit-mounted charging sticker to determine correct amount of charge required.

#### 1 Outdoor Coil Fan

- Direct drive fan
- ECM motor
- Vertical air discharge
- Totally enclosed fan motor
- Ball bearings
- Inherently protected
- PVC (polyvinyl chloride) coated steel fan guard

#### 2 Quantum™ Coil

- Lennox designed and fabricated coil
- Enhanced aluminum alloy tube/enhanced fin coil
- Superior corrosion resistance
- Ripple-edged aluminum fins
- Aluminum tube construction
- Lanced fins for maximum fin surface exposure
- Fin collars grip tubing for maximum contact area
- Flared shoulder tubing connections
- Factory tested under high pressure
- Entire coil is accessible for cleaning

#### 3 High Capacity Suction Line Drier

- Factory installed in the suction line
- Drier traps moisture or dirt that could contaminate the system.
- 100% molecular-sieve, bead type, one-way drier

## FEATURES

### **REFRIGERATION SYSTEM (continued)**

- 4 Low Pressure Transducer**
  - Shuts off unit if suction pressure falls below setting
  - Provides loss of charge and freeze-up protection
- 5 High Pressure Transducer**
  - Measures pressure in the liquid line
  - Pressure readings are used to calculate subcooling values to assist with charging
- 6 High Pressure Switch**
  - Protects the system from high pressure conditions that can be a result of fan failure or a blocked/dirty coil.
  - Automatic reset

#### **Optional Accessories**

##### **Expansion Valve Kits**

- Field installed on indoor units (if required)
- See TXV Usage table
- Chatleff-style fitting

##### **Freezestat**

- Senses suction line temperature
- Cycles compressor off when suction line temperature falls below freezestat setpoint
- Opens at 29°F and closes at 58°F
- Installs on or near the discharge line of the evaporator or on the suction line

##### **Loss of Charge Switch Kit**

- Protects compressor from damage from low refrigerant charge conditions
- SPST, normally-closed
- Automatic reset

##### **Refrigerant Line Kits**

- Refrigerant lines are shipped refrigeration clean
- Lines are cleaned, dried, pressurized and sealed at factory
- Suction line fully insulated
- Lines are stubbed at both ends

**NOTE** - EL22KCV is a variable capacity air conditioner utilizing variable speed compressor technology. With the variable speed compressor and variable pumping capacity, additional consideration must be given to refrigerant piping sizing and application.

Refer to the Installation Instructions for Line Set Requirements and Refrigerant Piping Guidelines

### **INDOOR REFRIGERANT DETECTION SYSTEM (RDS)**

- Complies with UL 60335-2-40 approved standard
- Required for all systems using R-454B refrigerant
- Factory or field installed on all indoor units
- Consists of a RDS refrigerant detection sensor and a mitigation control in the indoor unit
- Ensures safe operation for systems equipped with R-454B refrigerant
- Indoor sensor will detect any R-454B refrigerant
- If R-454B refrigerant is detected, the refrigerant detection system will stop compressor operation and operate the blower to reduce concentrations in the conditioned space
- Once safe levels are reached the HVAC system will resume normal operation
- Refer to indoor unit Product Specifications documents for additional details

### **PRECISE COMFORT® TECHNOLOGY**

The Variable Capacity Rotary Compressor and DC Inverter Control is an integrated system that operates together to reduce overall energy usage when compared to conventional air conditioners.

#### **7 Variable Capacity Rotary Compressor**

- High volumetric efficiency
- Uniform suction flow
- Constant discharge flow
- Quiet operation
- Low gas pulses during compression reduces operational sound levels
- Compressor motor is internally protected from excessive current and temperature
- Compressor is installed in the unit on resilient rubber mounts for vibration free operation

##### **Rotary Compressor Operation**

- Rotary compressor has a cylindrical chamber
- A roller is mounted to the motor shaft and is offset to rotate in the center of the chamber
- Two spring-loaded vanes sweep the sides of the chamber as the roller rotates
- Roller touches the chamber at a point between the intake and the discharge ports as the roller rotates
- While rotating, the roller draws vapor into the chamber through the intake port
- Vapor is trapped in the space between the chamber wall, the vane, and the point of contact between the roller and the chamber
- As the next vane passes the contact point vapor is compressed
- The space becomes smaller compressing the vapor as the roller rotates
- Vapor is discharged through the discharge port

## FEATURES

### **PRECISE COMFORT® TECHNOLOGY (continued)**

#### **8 Accumulator**

- Standard in all models

#### **Compressor Crankcase Heater**

- Crankcase heater prevents migration of liquid refrigerant into compressor and ensures proper compressor lubrication
- Factory Installed

#### **Compressor Sound Dampening System**

- Polyethylene compressor cover
- 2-inch thick batt fiberglass insulation
- All open edges sealed with one-inch wide hook and loop fastening tape

#### **9 DC Inverter Control**

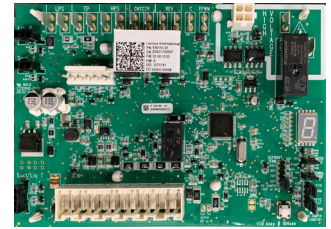
- Converts AC line voltage into filtered variable DC voltage
- Provides continuous compressor operation, while adjusting the capacity according to indoor temperature
- Adjusts compressor output in increments as small as 1%
- The accurate sensing of cooling load prevents frequent changes in capacity and ensures efficient, economical operation
- Power Factor Correction (PFC) circuit monitors the DC bus for high, low and abnormal voltage conditions to protect the compressor
- Two LEDs (red and green) indicate inverter operating status and aid in troubleshooting
- Noise filter reduces unwanted electromagnetic interference (EMI)
- Integrated on the Lennox® Communicating Control for 024 and 036 models,
- Separate external inverter control for 048 and 060 models
- The inverter reactor (mounted separately) adds inductance to the line between the inverter and the compressor to limit current rise and protect the compressor



## **CONTROLS**

#### **10 Lennox® Communicating Control**

- Advanced control communicates information about various operating parameters in the air conditioner to the Lennox® Communicating Thermostat to constantly maintain the highest level of comfort, performance and efficiency available
- **Auto Configuration** - On start-up the control automatically sends a description of the unit to the Lennox® Communicating Thermostat to automatically configure the features available
- Control also features:
  - **Seven-Segment Display** - Shows information about outdoor unit type and capacity and also displays alerts for common fault conditions (electrical and mechanical)
  - **Low Voltage Protection** - Prevents compressor operation when voltage is not within the specified range
  - High and low pressure transducer monitoring with provisions for lockout
  - Five-Strike lockout protection protects compressor
  - Liquid line temperature and ambient sensor monitoring
  - EEPROM storage of all local configurations
  - Non-volatile memory storage of 100 alarm codes with display of last 10 codes for troubleshooting
  - Built-in low-ambient control



**NOTE** - Two RAST connectors for a conventional heating/cooling thermostat are also provided for connection to the control. A two-stage or single-stage thermostat can be used.

#### **Low Ambient Operation**

- Air conditioner can operate down to 0°F outdoor air temperature

**NOTE** - A freeze stat is recommended for extra protection during low ambient operation.

#### **Climate IQ™ Technology**

- Optimizes dehumidification settings for specific climates to improve home comfort during cooling operation

#### **Lennox® S40 Thermostat Setting:**

- **Climate IQ (Auto)** - Dry, Normal, Basic and Humid modes are automatically set based on the difference between the measured relative humidity and the relative humidity setting
- All modes are selected on the Lennox® Communicating Thermostat

#### **Outdoor Air Temperature Sensor**

- Used with Lennox® Communicating Thermostats
- Sensor allows thermostat to display outdoor temperature
- Sensor is auto-detected when connected to thermostat



## FEATURES

### CONTROLS (continued)

**NOTE** - The EL22KCV Air Conditioner can be used with an Lennox® Communicating Thermostat matched with a “communicating” indoor unit, or a conventional non-communicating thermostat matched with a “non-communicating” indoor unit.

| Thermostat        | Model No.               | Indoor Unit Type  |
|-------------------|-------------------------|-------------------|
| Communicating     | S40                     | Communicating     |
| Non-Communicating | E30, M30, CS7500        | Non-Communicating |
|                   | Conventional thermostat |                   |

### Optional Accessories

#### S40 Smart Wi-Fi Thermostat (part of the Lennox® Residential Communicating Control System)

- Recognizes and connects to all Lennox® Communicating products to automatically configure and control the heating/cooling system (based on user-specified settings) for the highest level of comfort, performance and efficiency
- Recognizes model and serial number information for Lennox® Communicating products to simplify system setup
- Lennox Smart Room Sensors, Lennox Wireless Extenders and Lennox Smart Air Quality Monitor can be added to the system
- Smart home automation compatible with Amazon Alexa®, Google Assistant, Control4® and Building36®
- Sends service alerts and reminders
- Lennox Smart Thermostat App features Wi-Fi remote temperature monitoring and adjustment through a home wireless network apps for smartphones or tablets
- Lennox Smart Technician App allows installer to manage systems in the home
- Service Dashboard features online real-time monitoring and advanced diagnostics of installed Lennox® Communicating systems
- Simple easy-to-use touchscreen allows complete system configuration
- Scheduled maintenance alerts, system warnings and troubleshooting are also displayed on thermostat screen
- Easy to read 7 inch high definition color display (measured diagonally)
- Conventional outdoor units (not Lennox® Communicating) can easily be added and controlled by the S40 Thermostat
- Installer setup screens allow quick and simple system configuration without a manual, Installer can also run tests on complete system or individual components for easy maintenance and troubleshooting
- Serial communications bus (RSBus), with less wiring than a conventional heating/cooling system, allows system communication
- Uses standard 4-wire unshielded thermostat wiring
- High Definition Color Display with Subbase and wallplate furnished for easy installation

**NOTE** - See the Lennox® S40 Thermostat Product Specifications bulletin for more information.



#### E30 Smart Wi-Fi Thermostat

- Wi-Fi enabled, electronic 7-day, universal, multi-stage, programmable, touchscreen thermostat
- 3 Heat/2 Cool
- Auto-changeover
- Controls dehumidification during cooling mode and humidification during heating mode
- Offers enhanced capabilities including humidification / dehumidification / dewpoint measurement and control, Humiditrol® control, and equipment maintenance reminders
- Easy to read 7 in. color touchscreen (measured diagonally)
- LCD display with backlight shows the current and set temperature, time, inside relative humidity, system status (operating mode and schedules) and outside temperature (optional outdoor sensor required)
- Smooth Setback Recovery starts system early to achieve setpoint at start of program period
- Compressor short-cycle protection (5 minutes)
- Up to four separate schedules are available plus Schedule IQ™
- One-Touch Away Mode - A quick and easy way to set the cooling and heating setpoints while away
- Smart Away™ - Uses geo-fencing technology to determine when the homeowner is within a predetermined distance from the home to operate the system when leaving, away and arriving
- Wi-Fi remote monitoring and adjustment through a home wireless network for desktop PCs, laptops and apps for smartphones or tablets
- Smart home automation compatible with Apple HomeKit™, Amazon Alexa®, Google Assistant and IFTTT
- Service Dashboard features online real-time monitoring of installed Lennox® thermostats
- High Definition Color Display with Subbase, Smart Hub Controller, wallplate (for retrofit installations) furnished for easy installation



**NOTE** - See the Lennox® E30 Smart Wi-Fi Thermostat Product Specifications bulletin for more information.

#### Thermostat

- Thermostat is not furnished with unit
- See Lennox Price Book or [Lennox Pros](#) for selection

## FEATURES

### **CABINET**

- 11** • Composite unit base and top resists corrosion
  - Louvered steel panels surround unit on all four sides
  - Pre-painted powder paint finish for all metal surfaces
  - Control box is conveniently located with all controls factory wired
  - Corner patch plate allows access to compressor components
  - Drainage holes are provided in base section for moisture removal
  - Composite base raises the unit off of the mounting surface, away from damaging moisture

- 12** **Louvered Coil Protection**
  - Steel louvered panels provides complete coil protection
  - Lift-off panels are easily removed to allow easy cleaning and servicing of coils
  - Interlocking tabs and slots assure tight fit on cabinet

- 13** **Refrigerant Line Connections, Electrical Inlets and Service Valves**
  - Sweat connection suction and liquid lines
  - Located on corner of unit cabinet
  - Suction valve can be fully shut off, while liquid valve may be front seated to manage refrigerant charge while servicing system
  - Refrigerant line connections and field wiring inlets are located in one central area of the cabinet
  - See dimension drawing

### **Braze-Free/Press Fitting Flexibility**

- Units can accommodate braze-free or press fittings for installation versatility

### **Optional Accessories**

#### **Stand-Off Guard-Edge Raiser Kit**

- High density polyethylene feet raise unit off of mounting surface
- Available in 3 in. (76 mm) and 6 in. (152 mm) heights
- Four feet are furnished per order number

| SPECIFICATIONS                    |                                  |  |            | ALL REGIONS  |                 |                 |                 |
|-----------------------------------|----------------------------------|--|------------|--|-----------------|-----------------|-----------------|
| Size                              |                                  |  |            | 024  | 036             | 048             | 060             |
| Nominal Tonnage                   |                                  |  |            | 2  | 3               | 4               | 5               |
| Sound Rating Number Range         |                                  |  |            | dBA 60-68  | 61-73           | 62-74           | 63-75           |
| Connections<br>(Sweat)            | Liquid line (OD) - in.           |  |            | 3/8  | 3/8             | 3/8             | 3/8             |
|                                   | Suction line (OD) - in.          |  |            | 3/4  | 7/8             | 7/8             | 1-1/8           |
| Compressor Type                   |                                  |  |            | Variable Rotary                                    | Variable Rotary | Variable Rotary | Variable Rotary |
| Refrigerant                       |                                  |  |            | <sup>1</sup> R-454B charge furnished 6 lbs. 10 oz. | 6 lbs. 11 oz.   | 10 lbs. 3 oz.   | 10 lbs. 7 oz.   |
| Indoor Unit Expansion Valve (TXV) |                                  |  |            | 26Z70  | 26Z70           | 26Z71           | 26Z72           |
| Outdoor<br>Coil                   | Net face area - ft. <sup>2</sup> |  | Outer coil | 26.24  | 26.24           | 26.24           | 26.24           |
|                                   |                                  |  | Inner coil | - - -  | - - -           | 25.49           | 25.49           |
|                                   | Tube diameter - in.              |  |            | 5/16   | 5/16            | 5/16            | 5/16            |
|                                   | Rows                             |  |            | 1  | 1               | 2               | 2               |
|                                   | Fins - in.                       |  |            | 22   | 22              | 22              | 22              |
|                                   | HP                               |  |            | 1/3 (ECM)  | 1/3 (ECM)       | 1/3 (ECM)       | 1/3 (ECM)       |
| Outdoor<br>Fan                    | Diameter - in.                   |  |            | 28   | 28              | 28              | 28              |
|                                   | Blades                           |  |            | 2  | 2               | 2               | 2               |
|                                   | Cfm - minimum speed              |  |            | 1630   | 1952            | 2216            | 3017            |
|                                   | maximum speed                    |  |            | 2900   | 4042            | 3556            | 4274            |
|                                   | Rpm - minimum speed              |  |            | 275  | 334             | 372             | 495             |
|                                   | maximum speed                    |  |            | 492  | 672             | 577             | 715             |
|                                   | Watts - minimum speed            |  |            | 14   | 22              | 30              | 60              |
|                                   | maximum speed                    |  |            | 55   | 113             | 84              | 141             |
| Shipping Data - lbs.              |                                  |  |            | 230  | 230             | 283             | 283             |

| ELECTRICAL DATA   |                 |              |              |              |              |
|---|-----------------|--------------|--------------|--------------|--------------|
| Line voltage data (Volts-Phase-Hz)                      |                 | 208/230-1-60 | 208/230-1-60 | 208/230-1-60 | 208/230-1-60 |
| <sup>2</sup> Maximum overcurrent protection (MOCP) amps |                 | 20           | 35           | 40           | 50           |
| <sup>3</sup> Minimum circuit ampacity (MCA)             |                 | 15           | 21.5         | 26.4         | 30.4         |
| Compressor  | Rated load amps | 9.9          | 15.1         | 19           | 22.2         |
| Fan Motor   | Full load amps  | 2.6          | 2.6          | 2.6          | 2.6          |

| OPTIONAL CONTROLS - ORDER SEPARATELY          |       |   |   |   |   |
|---|-------|---|---|---|---|
| S40 Smart Wi-Fi Thermostat                    | 22V24 | • | • | • | • |
| <sup>4</sup> Discharge Air Temperature Sensor | 88K38 | • | • | • | • |
| E30 Smart Wi-Fi Thermostat                    | 20A65 | • | • | • | • |

| OPTIONAL ACCESSORIES - ORDER SEPARATELY |   |       |   |   |   |   |
|---|---|-------|---|---|---|---|
| <sup>5</sup> Freezestat                 | 3/8 in.   | 93G35 | • | • | • | • |
| Refrigerant<br>Line Sets                | 3/8 x 3/4   3/8   20 ft.                        | 89J56 | • |   |   |   |
|   | 3/8 x 3/4   3/8   30 ft.                        | 89J57 |   |   |   |   |
|   | Liquid x Suction OD   3/8 x 3/4   3/8   40 ft.  | 89J58 |   |   |   |   |
|   | Insulation Thickness   3/8 x 3/4   3/8   50 ft. | 89J59 |   |   |   |   |
|   | 3/8 x 7/8   3/8   30 ft.                        | 89J60 | • | • |   |   |
|   | 3/8 x 7/8   3/8   40 ft.                        | 89J61 |   |   |   |   |
|   | 3/8 x 7/8   3/8   50 ft.                        | 89J62 |   |   |   |   |
|   | 3/8 x 1-1/8   3/8   50 ft.                      | 73P91 |   |   |   | • |
| Stand-Off Guard-Edge<br>Raiser Kit      | 3 in. (76 mm)                                   | 27X34 | • | • | • | • |
|   | 6 in. (152 mm)                                  | 27X35 | • | • | • | • |

NOTE - Extremes of operating range are plus 10% and minus 5% of line voltage.

<sup>1</sup> Refrigerant charge sufficient for 15 ft. length of refrigerant lines. For longer line set requirements see the Installation Instructions for information about line set length and additional refrigerant charge required.

<sup>2</sup> HACR type breaker or fuse.

<sup>3</sup> Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

<sup>4</sup> Used with the Lennox® S40 Smart Wi-Fi Thermostat for optional service diagnostics.

<sup>5</sup> Freezestat is recommended for low ambient operation.



## EXPANDED SOUND DATA

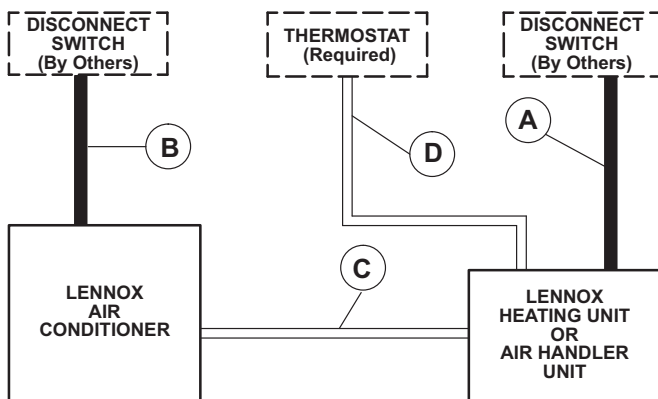
| Size     | Octave Band Sound Power Levels dBA, re 10 <sup>-12</sup> Watts<br>Center Frequency - HZ |      |      |      |      |      |      | <sup>1</sup> Sound<br>Rating<br>Number<br>(dBA) | <sup>2</sup> Estimated Sound Pressure Level at<br>Distance From Unit (dBA at distance in ft.) |    |    |    |    |
|----------|---|------|------|------|------|------|------|---|---|----|----|----|----|
|          | 125   | 250  | 500  | 1000 | 2000 | 4000 | 8000 |   | 3   | 5  | 10 | 15 | 50 |
| 024 Min. | 38.5  | 54.5 | 54.5 | 49   | 53   | 47   | 53   | 60  | 53  | 48 | 42 | 39 | 28 |
| 024 Max. | 52  | 58.5 | 63   | 58.5 | 63.5 | 59   | 54   | 68  | 61  | 56 | 50 | 47 | 36 |
| 036 Min. | 42  | 54   | 55.5 | 49   | 53   | 47   | 54   | 61  | 54  | 49 | 43 | 40 | 29 |
| 036 Max. | 56.5  | 64   | 67   | 66   | 65.5 | 65   | 57   | 73  | 66  | 61 | 55 | 52 | 41 |
| 048 Min. | 50.5  | 58   | 57.5 | 53.5 | 48.5 | 48   | 50   | 62  | 55  | 50 | 44 | 41 | 30 |
| 048 Max. | 54  | 67.5 | 70   | 61.5 | 66.5 | 64.5 | 56.5 | 74  | 67  | 62 | 56 | 53 | 42 |
| 060 Min. | 51  | 58   | 58.5 | 55.5 | 50.5 | 47   | 50   | 63  | 56  | 51 | 45 | 42 | 31 |
| 060 Max. | 56  | 69   | 69   | 65.5 | 70   | 67.5 | 57.5 | 75  | 68  | 63 | 57 | 54 | 43 |

NOTE - The octave sound power data does not include tonal correction.

<sup>1</sup> Tested according to AHRI Standard 270-2008 test conditions. Sound rating Number is the overall A-Weighted Sound Power Level, (LWA), dB (100 Hz to 10,000 Hz).

<sup>2</sup> Estimated sound pressure level at distance based on AHRI Standard 275-2010 method for equipment located on the ground, roof, or on side of building wall with no adjacent reflective surface within 9.8 feet. Sound pressure levels will increase based on changes to assumptions. For other applications, refer to AHRI Standard 275.

## FIELD WIRING



**A - Two Wire Power**

**B - Two Wire Power** (see Electrical Data)

**C - Lennox® Communicating Thermostat:**

- Four Wire, 18AWG (RSBus)

**C - Conventional Thermostat:**

- Four Wire Low Voltage, 18AWG

**D - Lennox® Communicating Thermostat:**

- Four Wire, 18 to 22AWG (RSBus) standard thermostat cable for terminals (R, C, I+, I-).

**D - Conventional Thermostat:**

- Six Wire Low Voltage, 18AWG

NOTE - All wiring must conform to NEC or CEC and local electrical codes.

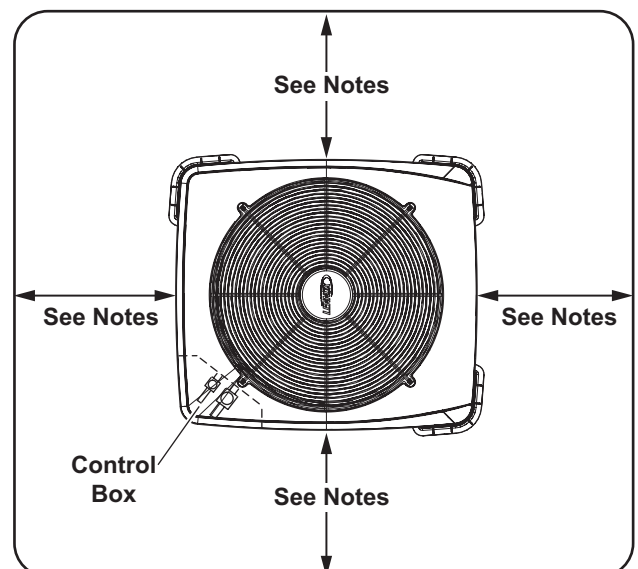
NOTE - Refer to the S40 Installation Instructions for optional wiring connections for communicating thermostats.

NOTE - Field wiring not furnished.

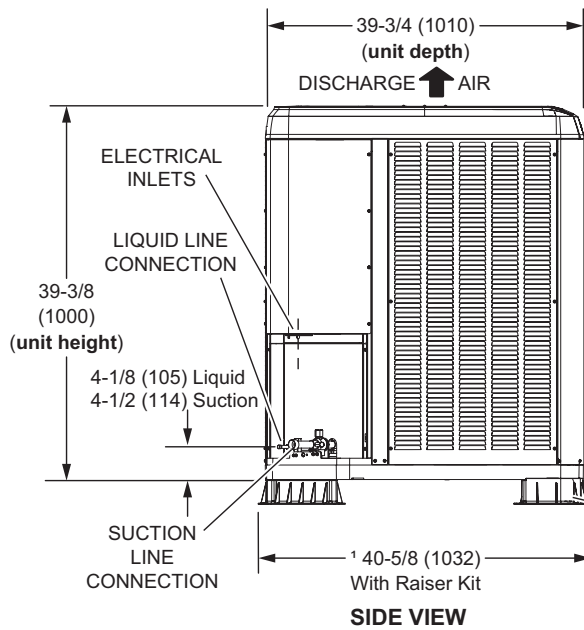
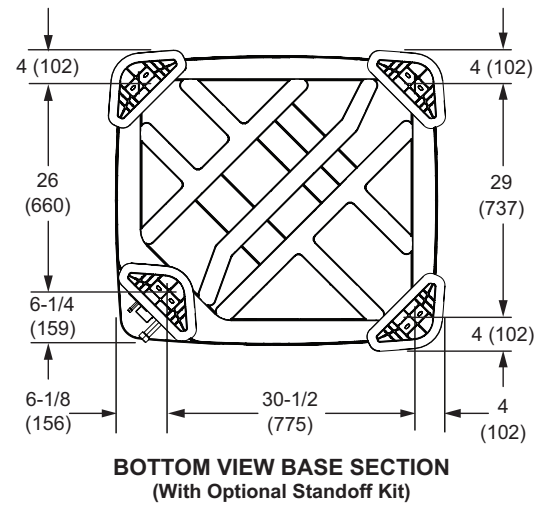
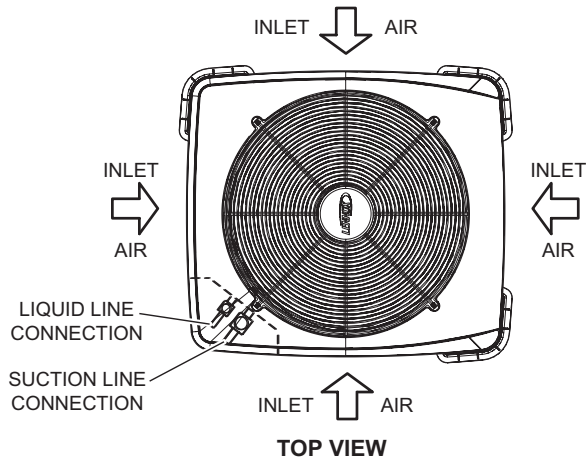
## INSTALLATION CLEARANCES

### NOTES:

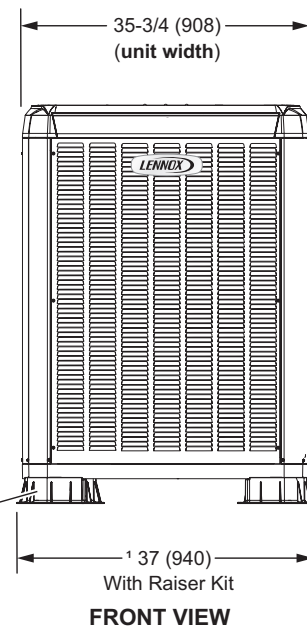
- Service Clearance – 30 in. (762 mm) on one of the sides adjacent to the Control Box.
- One of other three sides must be 36 in. (914 mm).
- One of the two remaining sides may be 12 in. (305 mm).
- The remaining side may be 6 in. (152 mm).
- 48 in. (1219 mm) clearance required on top of unit
- 24 in. (610 mm) required between two units



## DIMENSIONS - UNIT



<sup>1</sup> OPTIONAL  
STAND-OFF  
GUARD-EDGE  
RAISER KIT (4)  
(Field Installed)



<sup>1</sup> Adds 3 in. (76 mm) or  
6 in. (152 mm) to unit height  
Adds 1-1/4 in. (32 mm) to unit width and depth

## TXV USAGE

All Lennox coils and air handlers are shipped with a factory installed TXV. In most cases, no substitution is needed. If a different size TXV is required, it will be listed in the "TXV SUBSTITUTION" table by size. The correct TXV must be ordered separately and field installed.

| Size | Order Number |
|------|--------------|
| 024  | <b>26Z70</b> |
| 036  | <b>26Z70</b> |
| 048  | <b>26Z71</b> |
| 060  | <b>26Z72</b> |

## AHRI STANDARD 210-240-2023

Standard Ratings relating to cooling or heating capacities shall be net values, including the effects of circulating-fan heat, but not including supplementary electric heat. Power input used for calculating efficiency shall be the Total Power.

Standard Ratings of units which do not have indoor air-circulating fans furnished as part of the model, i.e., Coil-only System, shall be established by subtracting from the total cooling capacity 1,505 Btu/h per 1,000 SCFM, and by adding the same amount to the heating capacity for non-mobile-home, non-Space Constrained units. Total Power for both heating and cooling shall be increased by 441 W per 1,000 SCFM of indoor air circulated.

## TXV SUBSTITUTION - R-454B

A general guide for replacing the factory installed R-454B TXV if the indoor unit (coil/air handler) is larger or smaller than the outdoor unit.

| Outdoor Unit |      | Indoor Unit |       | Indoor TXV<br>Furnished | Indoor TXV<br>Replacement |
|--------------|------|-------------|-------|-------------------------|---------------------------|
| Size         | Tons | Size        | Tons  |                         |                           |
| 024          | 2    | 42          | 3.5   | <b>26Z71</b>            | <b>26Z70</b>              |
| 024          | 2    | 48          | 4     | <b>26Z71</b>            | <b>26Z70</b>              |
| 024          | 2    | 49          | 4     | <b>26Z71</b>            | <b>26Z70</b>              |
| 024          | 2    | 50/60       | 4/5   | <b>26Z71</b>            | <b>26Z70</b>              |
| 024          | 2    | 51/61       | 4/5   | <b>26Z71</b>            | <b>26Z70</b>              |
| 024          | 2    | 60          | 5     | <b>26Z72</b>            | <b>26Z70</b>              |
| 036          | 3    | 42          | 3.5   | <b>26Z71</b>            | <b>26Z70</b>              |
| 036          | 3    | 48          | 4     | <b>26Z71</b>            | <b>26Z70</b>              |
| 036          | 3    | 49          | 4     | <b>26Z71</b>            | <b>26Z70</b>              |
| 036          | 3    | 50/60       | 4/5   | <b>26Z71</b>            | <b>26Z70</b>              |
| 036          | 3    | 51/61       | 4/5   | <b>26Z71</b>            | <b>26Z70</b>              |
| 036          | 3    | 60          | 5     | <b>26Z72</b>            | <b>26Z70</b>              |
| 048          | 4    | 30/36       | 2.5/3 | <b>26Z70</b>            | <b>26Z71</b>              |
| 048          | 4    | 36          | 3     | <b>26Z70</b>            | <b>26Z71</b>              |
| 048          | 4    | 60          | 5     | <b>26Z72</b>            | <b>26Z71</b>              |
| 060          | 5    | 50/60       | 4/5   | <b>26Z71</b>            | <b>26Z72</b>              |
| 060          | 5    | 51/61       | 4/5   | <b>26Z71</b>            | <b>26Z72</b>              |

### TXV Ranges:

**26Z70** - 1.5 to 3 ton systems - Use on 3 ton (036) and lower systems.

**26Z71** - 3.5-4 ton systems - Use on 4 ton (048) and down to 3.5 ton (042) systems.

**26Z72** - 5 ton systems - Use on 5 ton (060) systems only.

## REVISIONS

| Sections   | Description of Change   |
|------------|---|
| Dimensions | Updated to show unit dimensions (H x W x D) with and without the optional Raiser Kit. |



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NOTE - Due to Lennox' ongoing commitment to quality, Specifications, Ratings and Dimensions subject to change without notice and without incurring liability. Improper installation, adjustment, alteration, service or maintenance can cause property damage or personal injury. Installation and service must be performed by a qualified installer and servicing agency.

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