# EL16KC1

**ELITE® SERIES** 

Single-Stage | Quantum™ Coil | R-454B | 60Hz

RESIDENTIAL PRODUCT SPECIFICATIONS (EHB)



1.5 to 5 Tons SEER2 up to 17.0 Cooling Capacity | 17,000 to 59,000 Btuh



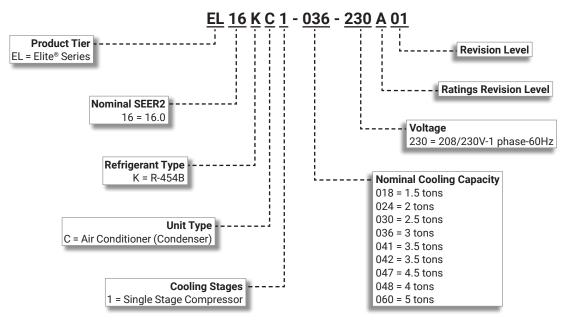








#### MODEL NUMBER IDENTIFICATION



# **FEATURE HIGHLIGHTS**

- 1. Outdoor Coil Fan
- 2. Quantum™ Coil
- 3. High Capacity Liquid Line Drier
- 4. High Pressure Switch
- 5. Low Pressure Switch
- 6. Scroll Compressor
- 7. Heavy Gauge Steel Cabinet
- 8. Louvered Coil Protection
- 9. 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
- 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 <a href="www.Lennox.com">www.Lennox.com</a> for additional details.

#### **FEATURES**

#### **APPLICATIONS**

- 1.5 through 5 tons
- Sound levels as low as 71 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
- · Factory test operated

#### **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.

# Outdoor Coil Fan

- Direct drive fan
- 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 Liquid Line Drier

- Factory installed in the liquid line
- Drier traps moisture or dirt that could contaminate the system
- 100% molecular-sieve, bead type

# 4 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

#### 5 Low Pressure Switch

- · Shuts off unit if suction pressure falls below setting
- Provides loss of charge and freeze-up protection
- Automatic reset

#### **FEATURES**

#### **REFRIGERATION SYSTEM (Continued)**

#### **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

#### **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

### **COMPRESSOR**



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

#### Scroll Compressor Operation

- Two involute spiral scrolls matched together generate a series of crescent-shaped gas pockets between them
- During compression, one scroll remains stationary while the other scroll orbits around it
- Gas is drawn into the outer pocket, the pocket is sealed as the scroll rotates
- As the spiral movement continues, gas pockets are pushed to the center of the scrolls. Volume between the pockets is simultaneously reduced
- When the pocket reaches the center, gas is now at high pressure and is forced out of a port located in the center of the fixed scrolls
- During compression, several pockets are compressed simultaneously resulting in a smooth continuous compression cycle
- Continuous flank contact, maintained by centrifugal force, minimizes gas leakage and maximizes efficiency
- Compressor is tolerant to the effects of slugging and contaminants. If this occurs, scrolls separate, allowing liquid or contaminants to be worked toward the center and discharged

#### Compressor Crankcase Heater (041 through 060 Models)

 Prevents migration of liquid refrigerant into compressor and ensures proper compressor lubrication

#### Compressor Sound Dampening System

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



#### **FEATURES**

#### **COMPRESSOR** (continued)

#### **Optional Accessories**

#### Compressor Crankcase Heater (018 through 036 Models)

 Prevents migration of liquid refrigerant into compressor and ensures proper compressor lubrication

#### Compressor Hard Start Kit

- Single-phase units are equipped with a PSC compressor motor
- This type of motor normally does not need a potential relay and start capacitor
- For conditions such as low voltage kit may be required to increase the compressor starting torque

#### Compressor Low Ambient Cut-Off Switch

- Non-adjustable switch (low ambient cut-out)
- Prevents compressor operation when outdoor temperature is below 35°F

#### Compressor Timed-Off Control

- Prevents compressor short-cycling
- Allows time for suction and discharge pressure to equalize
- Permits compressor start-up in an unloaded condition
- Automatic reset with 5 minute delay between compressor shut-off and start-up

#### **CONTROLS**

#### **Optional Accessories**

#### Thermostat

- · Thermostat is not furnished with unit
- · See page 6

#### Indoor Blower Off Delay Relay

Delays the indoor blower-off time during the cooling cycle

#### Low Ambient Kit

- Air conditioners can operate down to 45°F outdoor air temperature without additional controls
- Allows unit to operate properly down to 30°F
- **NOTE** Crankcase heater and freezestat should be installed on compressors equipped with a low ambient kit.
- **NOTE** A compressor lock-out thermostat should be added to terminate compressor operation below recommended operation conditions.

#### **CABINET**



- Heavy-gauge steel construction
- · Pre-painted powder paint cabinet finish
- Louvered heavy gauge steel panels surround unit on all four sides
- 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
- High density polyethylene unit support feet raise the unit off of the mounting surface, away from damaging moisture

#### Zinc-Coated Steel Unit Base

· Resists rust and corrosion

# 8 Louvered Coil Protection

- Steel louvered panels provides complete coil protection
- Panels are hinged to allow easy cleaning and servicing of coils
- Panels may be completely removed
- Interlocking tabs and slots assure tight fit on cabinet



# 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

#### **CONTROL OPTIONS**

#### E30 Smart Wi-Fi Thermostat

- 4 Htg.-2 Clg.
- 7-day, universal, programmable, touchscreen thermostat
- Controls dehumidification during cooling mode and humidification during heating mode
- Smooth Setback Recovery and compressor short-cycle protection
- One-Touch Away Mode, Smart Away<sup>™</sup> (geo-fencing), equipment maintenance reminders and scheduling
- Smart home automation compatible with Apple HomeKit<sup>™</sup>, Amazon Alexa<sup>®</sup> and Google Assistant
- Lennox® Home App controls temperature, fan operation, set programs/schedules and set Away mode on a smartphone
- Lennox Smart Tech App allows the installer to commission the system and remotely turn the system on and off during setup or service call on a smartphone

#### L40 Smart Wi-Fi Thermostat

- · 2 Htg.-1 Clg.
- 7-day, universal, programmable, touchscreen thermostat
- Provides temperature control for gas, electric and heat pumps for single-stage heating or cooling systems (including dual-fuel operation)



- One-Touch Away Mode, Smart Away<sup>™</sup> (geo-fencing), equipment maintenance reminders and scheduling
- Smooth Setback Recovery and compressor short-cycle protection
- Smart home automation compatible with Amazon Alexa®, Google Assistant, Control4® and Building36®
- Lennox® Home App controls temperature, fan operation, set programs/schedules and set Away mode on a smartphone
- Lennox Smart Tech App allows the installer to commission the system and remotely turn the system on and off during setup or service call on a smartphone

#### M30 Smart Wi-Fi Thermostat

- 4 Htg.-2 Clg.
- 7-day, universal, programmable, touchscreen thermostat
- Humidification / dehumidification / dewpoint measurement and control, Humiditrol ® control



- Smooth Setback Recovery and compressor short-cycle protection
- One-Touch Away Mode, Smart Away<sup>™</sup> (geo-fencing), equipment maintenance reminders and scheduling
- Smart home automation compatible with Apple HomeKit™, Amazon Alexa® and Google Assistant
- Lennox® Home App controls temperature, fan operation, set programs/schedules and set Away mode on a smartphone
- Lennox Smart Tech App allows the installer to commission the system and remotely turn the system on and off during setup or service call on a smartphone

**NOTE** - Please refer to the individual Product Specifications for these products for full information.

CONTROLS - ORDERING						
E30 Smart Wi-Fi Thermostat	5 x 7-1/2 x 1	20A65				
L40 Smart Wi-Fi Thermostat	2-13/16 x 2-13/16 x 1/4	27V51				
M30 Smart Wi-Fi Thermostat	3-5/16 x 4-5/16 x 7/8	15Z69				
Thermostat Accessories						
<sup>1</sup> Discharge Air Temperature Sensor (For E30	88K38					
<sup>2</sup> Remote Outdoor Air Temperature Sensor (F	X2658					

<sup>&</sup>lt;sup>1</sup> Optional for service diagnostics (E30).

<sup>&</sup>lt;sup>2</sup> Remote Outdoor Air Temperature Sensor is used with conventional (non-Lennox® Communicating) outdoor units (sensor is furnished with Lennox® Communicating outdoor units). Allows the thermostat to display outdoor temperature. Required in dual-fuel and Humiditrol® applications.

Nominal Tonnage	73 3/8 3/4	030 2.5 72 3/8	<b>036</b> 3 73
Sound Rating Number   dBA   72	73 3/8 3/4	72 3/8	
Connections	3/8 3/4	3/8	73
Suction line (OD) - in.   3/4	3/4		
Compressor Type			3/8
Refrigerant (15 ft. Line Set)         ¹R-454B charge furnished         4 lbs. 14 oz           Refrigerant (30 ft. Line Set)         ¹R-454B charge furnished         5 lbs. 7 oz           Indoor Unit Expansion Valve (TXV)         26Z70           Outdoor         Net face area - ft.² Outer coil         16.33           Coil         Inner coil            Tube diameter - in.         5/16           Rows         1           Fins - in.         26           Outdoor         HP 1/8           Fan         Diameter - in.           Blades         2           Cfm         2610           Rpm         825           Watts         160           Shipping Data - lbs.         185           ELECTRICAL DATA         Line voltage data (Volts-Phase-Hz)         208/230-1-6           ² Maximum overcurrent protection (MOCP) amps         15	roll 1 Stage Carell	3/4	7/8
Refrigerant (15 ft. Line Set)         ¹R-454B charge furnished         4 lbs. 14 oz           Refrigerant (30 ft. Line Set)         ¹R-454B charge furnished         5 lbs. 7 oz           Indoor Unit Expansion Valve (TXV)         26Z70           Outdoor         Net face area - ft.² Outer coil         16.33           Coil         Inner coil            Tube diameter - in.         5/16           Rows         1           Fins - in.         26           Outdoor         HP         1/8           Fan         Diameter - in.         22           Blades         2         2           Cfm         2610         Rpm         825           Watts         160         Shipping Data - lbs.         185           ELECTRICAL DATA         Line voltage data (Volts-Phase-Hz)         208/230-1-6           ² Maximum overcurrent protection (MOCP) amps         15	roll   1-Stage Scroll	1-Stage Scroll	1-Stage Scroll
Indoor Unit Expansion Valve (TXV)		5 lbs. 10 oz.	6 lbs. 13 oz.
Outdoor Coil         Net face area - ft.²         Outer coil Inner coil         16.33           Coil         Tube diameter - in.         5/16           Rows         1           Fins - in.         26           Outdoor         HP         1/8           Fan         Diameter - in.         22           Blades         2         2           Cfm         2610         Rpm         825           Watts         160           Shipping Data - Ibs.         ELECTRICAL DATA           Line voltage data (Volts-Phase-Hz)         208/230-1-6           2 Maximum overcurrent protection (MOCP) amps         15	. 5 lbs. 7 oz.	6 lbs. 3 oz.	7 lbs. 6 oz.
Coil         Inner coil            Tube diameter - in.         5/16           Rows         1           Fins - in.         26           Outdoor         HP 1/8           Fan         Diameter - in.         22           Blades         2         2           Cfm         2610         Rpm         825           Watts         160         Shipping Data - Ibs.         185           ELECTRICAL DATA           Line voltage data (Volts-Phase-Hz)         208/230-1-6           2 Maximum overcurrent protection (MOCP) amps         15	26Z70	26Z70	26Z70
Tube diameter - in.	21.00	16.33	21.00
Rows   1		15.75	20.25
Fins - in.   26	5/16	5/16	5/16
Outdoor         HP fan         1/8 1/8 22           Blades         2         2           Cfm 2610         2610         2610           Rpm 825         825         825           Watts         160         160           Shipping Data - Ibs.         185         185           ELECTRICAL DATA         Line voltage data (Volts-Phase-Hz)         208/230-1-6           2 Maximum overcurrent protection (MOCP) amps         15	1	2	2
Fan         Diameter - in.         22           Blades         2           Cfm         2610           Rpm         825           Watts         160           Shipping Data - Ibs.         185           ELECTRICAL DATA         Line voltage data (Volts-Phase-Hz)         208/230-1-6           2 Maximum overcurrent protection (MOCP) amps         15	26	22	22
Blades   2     2610     2610       2610       2610	1/8	1/8	1/6
Cfm   2610   Rpm   825   Watts   160	22	22	22
Rpm 825 Watts 160 Shipping Data - Ibs. 185 ELECTRICAL DATA Line voltage data (Volts-Phase-Hz) 208/230-1-6  2 Maximum overcurrent protection (MOCP) amps 15	3	3	3
Shipping Data - Ibs. 185  ELECTRICAL DATA  Line voltage data (Volts-Phase-Hz) 208/230-1-6  2 Maximum overcurrent protection (MOCP) amps 15	2990	2820	3040
Shipping Data - Ibs. 185  ELECTRICAL DATA  Line voltage data (Volts-Phase-Hz) 208/230-1-6  2 Maximum overcurrent protection (MOCP) amps 15	825	825	825
ELECTRICAL DATA  Line voltage data (Volts-Phase-Hz) 208/230-1-6 <sup>2</sup> Maximum overcurrent protection (MOCP) amps 15	160	160	190
Line voltage data (Volts-Phase-Hz) 208/230-1-6 <sup>2</sup> Maximum overcurrent protection (MOCP) amps 15	205	210	235
<sup>2</sup> Maximum overcurrent protection (MOCP) amps 15			
	60 208/230-1-60	208/230-1-60	208/230-1-60
<sup>3</sup> Minimum circuit ampacity (MCA) 11.2	20	25	30
	13.6	16.6	21.8
Compressor Rated load amps 8.3	10.3	12.7	16.7
Locked rotor amps 45	60.2	75.6	93.5
Fan Motor Full load amps 0.74	0.74	0.74	1.0
Locked rotor amps 1.65	1.65	1.65	1.9
OPTIONAL ACCESSORIES - ORDER SEPARATELY			
Compressor Copeland 27V63 •	•	•	•
Crankcase Heater LG 27U16 •	•	•	•
Compressor Hard Copeland 63W22 •			
Start Kit 10J42	•	•	•
LG <b>10J42</b> •	•	•	•
Compressor Low Ambient Cut-Off Switch 45F08 •	•	•	•
Compressor Timed-Off Control 47J27 •	•	•	•
Freezestat         3/8 in.         93G35         •	•	•	•
Indoor Blower Off Delay Relay 58M81 •	•	•	•
Loss of Charge Switch Kit 84M23 •	•	•	•
<sup>4</sup> Low Ambient Kit (Fan Cycling) 34M72 •	•	•	•
<b>Refrigerant</b> 3/8 x 3/4   3/8   20 ft. <b>89J56</b>			
Line Sets 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			
Length 3/8 x 7/8   3/8   30 ft. 89J60			
3/8 x 7/8   3/8   40 ft. <b>89J61</b>			•
3/8 x 7/8   3/8   50 ft. 89J62 NOTE - Extremes of operating range are plus 10% and minus 5% of line voltage.		l	

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

<sup>&</sup>lt;sup>1</sup> Refrigerant charge sufficient for the line set length listed in parenthesis. For longer line set requirements see the Installation Instructions or unit Charging Label for information about line set length and additional refrigerant charge required.

<sup>&</sup>lt;sup>2</sup> HACR type breaker or fuse.

Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

<sup>&</sup>lt;sup>4</sup> Crankcase Heater and Freezestat are recommended with Low Ambient Kit.

SPECIFICATION	IS					ALL	REGIONS
Size			041	042	047	048	060
Nominal Tonnage			3.5	3.5	4	4	5
Sound Rating Number	r	dBA	72	72	73	75	74
Connections	Liquid line	e (OD) - in.	3/8	3/8	3/8	3/8	3/8
(Sweat)	Suction line	e (OD) - in.	7/8	7/8	7/8	7/8	1-1/8
Refrigerant (15 ft. Line	e <b>Set</b> ) <sup>1</sup> R-454B charge	furnished	7 lbs. 7 oz.	7 lbs. 2 oz.	7 lbs. 13 oz.	8 lbs. 14 oz.	8 lbs. 14 oz.
Refrigerant (30 ft. Line	e Set) 1R-454B charge	furnished	8 lbs. 0 oz.	7 lbs. 11 oz.	8 lbs. 6 oz.	9 lbs. 7 oz.	9 lbs. 7 oz.
Indoor Unit Expansion	n Valve (TXV)		26Z71	26Z71	26Z71	26Z71	26Z72
Outdoor	Net face area - ft.2	Outer coil	22.17	22.17	22.17	24.93	29.09
Coil		Inner coil	21.33	21.33	21.33	24.13	28.16
	Tube dia	meter - in.	5/16	5/16	5/16	5/16	5/16
		Rows	2	2	2	2	2
		Fins - in.	22	22	22	22	22
Outdoor		HP	1/3	1/4	1/3	1/4	1/4
Fan	Dia	meter - in.	26	26	26	22	26
		Blades	3	3	3	4	4
		Cfm	3920	4060	3920	3700	4180
		Rpm	825	825	825	825	825
		Watts	180	260	180	290	290
Shipping Data - Ibs.			260	260	260	275	300
ELECTRICAL DA	ATA	•					
	Line voltage data (Volts-l	Phase-Hz)	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60
<sup>2</sup> Maximur	m overcurrent protection (MO	CP) amps	30	35	40	45	50
	<sup>3</sup> Minimum circuit ampa	city (MCA)	21	23.2	25.2	29.7	31.2
Compressor	Rated	load amps	14.7	17.3	18.1	22.4	23.7
	Locked r	rotor amps	109	123	126	126	157
Fan Motor	Full	load amps	2.6	1.56	2.6	1.7	1.56
	Locked r		3.2		3.2	3.2	
OPTIONAL ACC	ESSORIES - ORDER	SEPARA	ATELY		'	'	
Compressor Hard	Copeland	10J42	•	•	•	•	•
Start Kit	LG	10J42		•			
	LG	88M91	•		•	•	•
Compressor Low Amb	pient Cut-Off Switch	45F08	•	•	•	•	•
Compressor Timed-O	ff Control	47J27	•	•	•	•	•
Freezestat	3/8 in.	93G35	•	•	•	•	•
Indoor Blower Off Del	ay Relay	58M81	•	•	•	•	•
Loss of Charge Switch	h Kit	84M23	•	•	•	•	•
<sup>4</sup> Low Ambient Kit (Fa	n Cycling)	34M72	•	•	•	•	•
Refrigerant	3/8 x 7/8   3/8   30 ft.	89J60					
Line Sets	3/8 x 7/8   3/8   40 ft.	89J61	•	•	•	•	
Liquid x Suction OD	3/8 x 7/8   3/8   50 ft.	89J62					
Insulation Thickness	3/8 x 1-1/8   3/8 - 50 ft.	73P91					•
Length	g range are plus 10% and minus 5%						<u> </u>

 $<sup>\</sup>ensuremath{\mathsf{NOTE}}$  - Extremes of operating range are plus 10% and minus 5% of line voltage.

Refrigerant charge sufficient for the line set length listed in parenthesis. For longer line set requirements see the Installation Instructions or unit Charging Label for information about line set length and additional refrigerant charge required.

<sup>&</sup>lt;sup>2</sup> HACR type breaker or fuse.

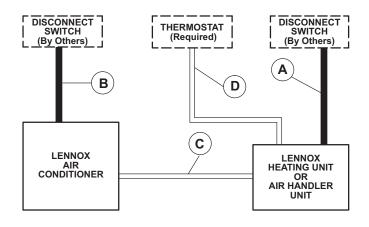
<sup>&</sup>lt;sup>3</sup> Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

<sup>&</sup>lt;sup>4</sup> Crankcase Heater and Freezestat are recommended with Low Ambient Kit.

#### **SOUND DATA** Octave Band Sound Power Levels dBA, re 10-12 Watts <sup>1</sup>Sound <sup>2</sup> Estimated Sound Pressure Level at Center Frequency - HZ Rating Distance From Unit (dBA at distance in ft.) Size Number (dBA) 67.5 60.5 60.5 67.5 69.5 51.5 50.5 56.5 68.5 66.5 63.5 68.5 64.5 58.5 51.5 66.5 54.5 55.5 68.5 56.5 47.5 59.5 58.5 67.5 55.5 62.5 65.5 61.5 53.5

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

#### FIELD WIRING

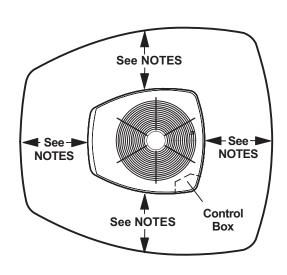


- A Two Wire Power (not furnished)
- B Two Power (not furnished). See Electrical Data
- C Four Wire Low Voltage (not furnished). 18 ga. minimum
- D Five Wire Low Voltage (not furnished). 18 ga. minimum
- All wiring must conform to NEC or CEC and local electrical codes.

#### **INSTALLATION CLEARANCES**

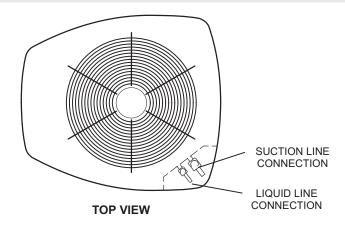
#### NOTES:

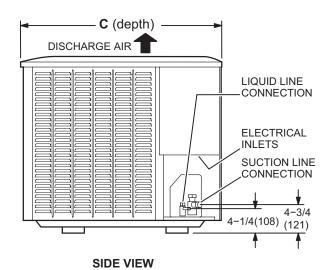
- Service Clearance 30 in. (762 mm) on one of the sides adjacent to the Control Box.
- One of other three sides must be 36 in. (914 mm).
- One of the two remaining sides may be 12 in. (305 mm).
- The remaining side may be 6 in. (152 mm).
- 48 in. (1219 mm) clearance required on top of unit
- 24 in. (610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

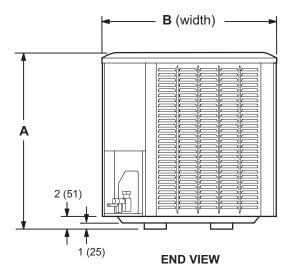


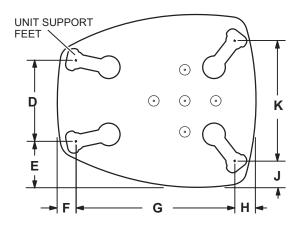
<sup>1</sup> Tested according to AHRI Standard 270-2008 test conditions.

<sup>&</sup>lt;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.









BASE SECTION (Medium and Large Base)

Size		A ight)	(Wid		C (Dep		D		E		F		G		Н		J		К	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
018	31	787	30-1/2	775	35	889	13-7/8	352	7-3/4	197	3-1/4	83	27-1/8	689	3-5/8	92	4-1/2	114	20-5/8	524
024	39	991	30-1/2	775	35	889	13-7/8	352	7-3/4	197	3-1/4	83	27-1/8	689	3-5/8	92	4-1/2	114	20-5/8	524
030	31	787	30-1/2	775	35	889	13-7/8	352	7-3/4	197	3-1/4	83	27-1/8	689	3-5/8	92	4-1/2	114	20-5/8	524
036	39	991	30-1/2	775	35	889	13-7/8	352	7-3/4	197	3-1/4	83	27-1/8	689	3-5/8	92	4-1/2	114	20-5/8	524
041	35	889	35-1/2	902	39-1/2	1003	16-7/8	429	8-3/4	222	3-1/8	79	30-3/4	781	4-5/8	117	3-3/4	95	26-7/8	683
042	35	889	35-1/2	902	39-1/2	1003	16-7/8	429	8-3/4	222	3-1/8	79	30-3/4	781	4-5/8	117	3-3/4	95	26-7/8	683
047	35	889	35-1/2	902	39-1/2	1003	16-7/8	429	8-3/4	222	3-1/8	79	30-3/4	781	4-5/8	117	3-3/4	95	26-7/8	683
048	45	1143	30-1/2	775	35	889	13-7/8	352	7-3/4	197	3-1/4	83	27-1/8	689	3-5/8	92	4-1/2	114	20-5/8	524
060	45	1143	35-1/2	902	39-1/2	1003	16-7/8	429	8-3/4	222	3-1/8	79	30-3/4	781	4-5/8	117	3-3/4	95	26-7/8	683

EL16KC1 | 1.5 to 5 Ton Air Conditioner | Page 10

#### **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
018	26Z70
024	26Z70
030	26Z70
036	26Z70
041	26Z71
042	26Z71
047	26Z71
048	26Z71
060	26Z72

# 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 aircirculating fans furnished as part of the model, i.e., Coilonly 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.

Outdoo	door Unit Indoor Unit Indoor Indoor					
Size	Tons	Size	Tons	TXV	TXV	
				Furnished	Replacement	
018	1.5	42	3.5	26Z71	26Z70	
018	1.5	48	4	26Z71	26Z70	
018	1.5	49	4	26Z71	26Z70	
018	1.5	50/60	4/5	26Z71	26Z70	
018	1.5	51/61	4/5	26Z71	26Z70	
018	1.5	60	5	26Z72	26Z70	
024	2	42	3.5	26Z71	26Z70	
024	2	48	4	26Z71	26Z70	
024	2	49	4	26Z71	26 <b>Z</b> 70	
024	2	50/60	4/5	26Z71	26 <b>Z</b> 70	
024	2	51/61	4/5	26Z71	26Z70	
024	2	60	5	26Z72	26 <b>Z</b> 70	
030	2.5	42	3.5	26Z71	26Z70	
030	2.5	48	4	26Z71	26Z70	
030	2.5	49	4	26Z71	26Z70	
030	2.5	50/60	4/5	26Z71	26Z70	
030	2.5	51/61	4/5	26Z71	26Z70	
030	2.5	60	5	26Z72	26Z70	
036	3	42	3.5	26Z71	26Z70	
036	3	48	4	26Z71	26Z70	
036	3	49	4	26Z71	26Z70	
036	3	50/60	4/5	26Z71	26Z70	
036	3	51/61	4/5	26Z71	26Z70	
036	3	60	5	26Z72	26Z70	
041/042	3.5	24	2	26Z70	26Z71	
041/042	3.5	30	2.5	26Z70	26Z71	
041/042	3.5	30/36	2.5/3	26Z70	26Z71	
041/042	3.5	36	3	26Z70	26Z71	
041/042	3.5	60	5	26Z72	26Z71	
047/048	4	30/36	2.5/3	26Z70	26Z71	
047/048	4	36	3	26Z70	26 <b>Z</b> 71	
047/048	4	60	5	26Z72	26Z71	
060	5	50/60	4/5	26Z71	26Z72	
060	5	51/61	4/5	26Z71	26 <b>Z</b> 72	
TVV Don					•	

#### 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
New Section	Added Control Options.









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