

# ML13KC1

MERIT® SERIES

Single-Stage | Quantum™ Coil | **R-454B** | 1-Phase | 60Hz

RESIDENTIAL  
PRODUCT SPECIFICATIONS (EHB)



1.5 to 5 Tons

SEER2 up to 16.0

Cooling Capacity | 17,000 to 59,000 Btuh



**MERIT®**  
SERIES

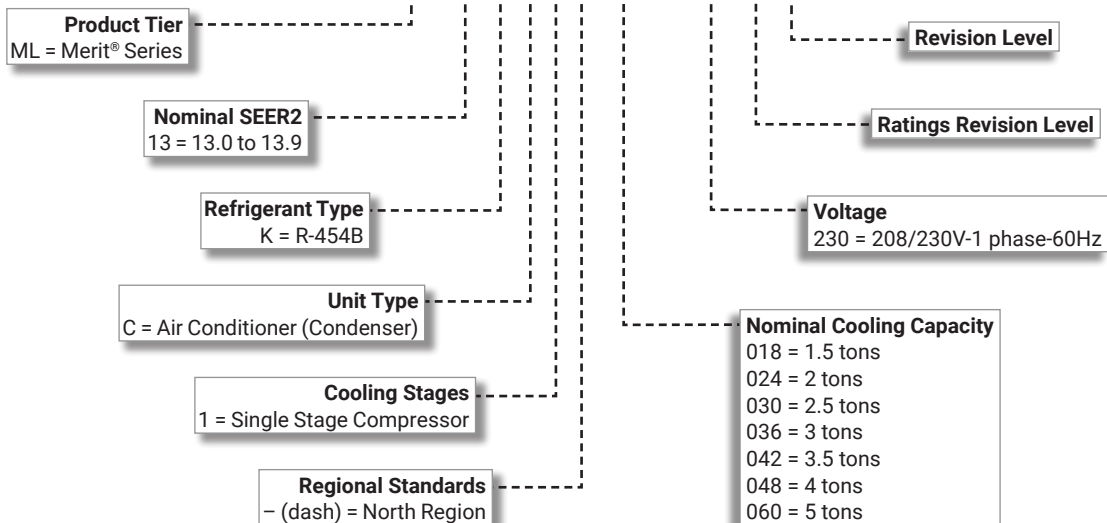


2025 COMPLIANT  
REFRIGERANT



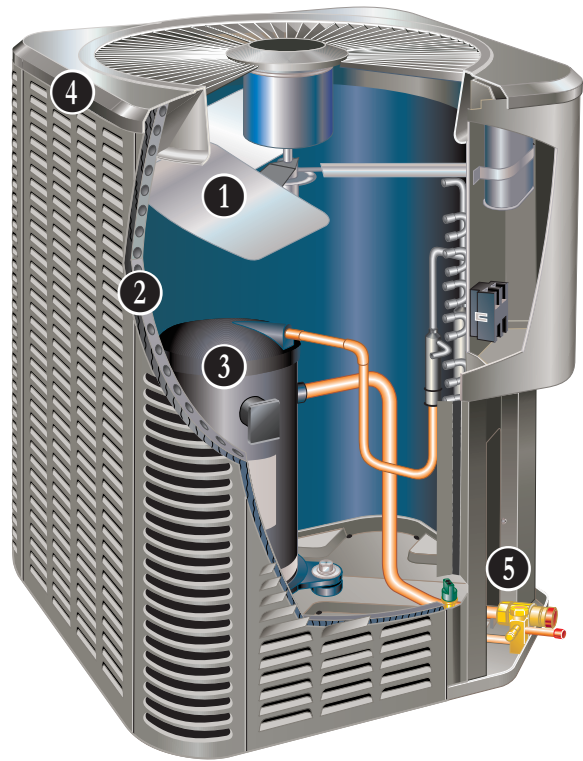
## MODEL NUMBER IDENTIFICATION

**ML 13 K C 1 - 036 - 230 A 01**



## FEATURE HIGHLIGHTS

1. Outdoor Coil Fan
2. Quantum™ Coil
3. Scroll Compressor
4. Heavy Gauge Steel Cabinet
5. 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)
- 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
- Region specific models meet the minimum efficiency requirements for U.S. DOE Federal Regional Standards in that area
- 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 five 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**

- 1.5 through 5 tons
- Sound levels as low as 76 dBA
- Single-phase power supply
- 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

#### **1 Outdoor Coil Fan**

- Direct drive fan
- Vertical air discharge
- Totally enclosed fan motor
- Sleeve bearings (018 through 048 and 060 models)
- Ball bearings (059 model)
- Inherently protected
- Motor rain shield
- Louvered 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

#### **High Capacity Liquid Line Drier**

- Furnished with unit for field installation
- Drier traps moisture or dirt that could contaminate the system
- 100% molecular-sieve, bead type drier

#### **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

#### **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

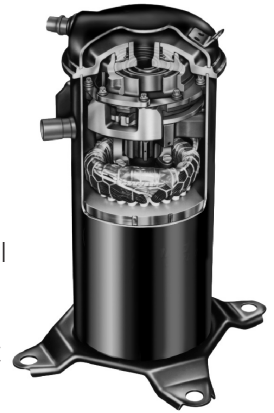
### **INDOOR REFRIGERANT DETECTION SYSTEM (RDS)**

- 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**

#### **3 Single-Stage Scroll Compressor**

- High volumetric efficiency
- Uniform suction flow
- Constant discharge flow
- High 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 (048, 060 Models)**

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

#### **Optional Accessories**

#### **Compressor Crankcase Heater (018 thru 042 models)**

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

#### **Compressor Sound Cover**

- Reinforced vinyl compressor cover
- 1-1/2 inch thick batt fiberglass insulation
- All open edges are sealed with a one-inch wide hook and loop fastening tape

## FEATURES

### COMPRESSOR (continued)

#### Optional Accessories (continued)

##### 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 Time-Off Control

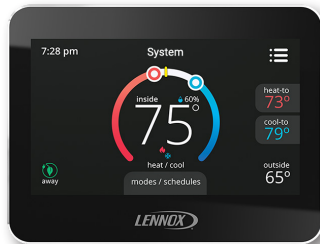
- Kit prevents compressor short-cycling
- Allows time for suction and discharge pressure to equalize.
- Permits compressor start-up in an unloaded condition.
- Automatic reset with 5 minute delay between compressor shut-off and start-up

## CONTROLS

#### Optional Accessories

##### M30 Smart Wi-Fi Thermostat

- Wi-Fi-enabled, electronic 7-day, universal, multi-stage, programmable, touchscreen thermostat
- 4 Heat/2 Cool
- Auto-changeover
- Dual-fuel control with optional outdoor sensor
- 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 4.3 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 Amazon Alexa®, Google Assistant and IFTTT
  - Service Dashboard features online real-time monitoring of installed Lennox® Communicating thermostats
- NOTE** - See the Lennox® M30 Smart Wi-Fi Thermostat Product Specifications bulletin for more information.

##### Remote Outdoor Temperature Sensor

- Used with the Lennox® M30 Smart Wi-Fi Thermostat
- Outdoor sensor allows thermostat to display outdoor temperature



##### Thermostat

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

##### 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 freeze-stat 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.

## FEATURES

### **CABINET**

- 4 • Heavy gauge steel construction
- Louvered heavy gauge steel panels surround unit on all four sides
- Pre-painted powder paint cabinet finish
- 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

#### **Zinc-Coated Steel Unit Base**

- Resists rust and corrosion

### **5 Refrigerant Line Connections, Electrical Inlets, 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**

#### **Unit Stand-Off Kit**

- Black high density polyethylene feet raise unit off of mounting surface
- Four feet are furnished per order number

| SPECIFICATIONS                             |                                                         |       | NORTH REGION   |                |                |                |
|--------------------------------------------|---------------------------------------------------------|-------|----------------|----------------|----------------|----------------|
| Size                                       |                                                         |       | 018            | 024            | 030            | 036            |
| Nominal Tonnage                            |                                                         |       | 1.5            | 2              | 2.5            | 3              |
| Sound Rating Number                        | dBA                                                     |       | 73             | 76             | 76             | 76             |
| Connections                                | Liquid line (OD) - in.                                  |       | 3/8            | 3/8            | 3/8            | 3/8            |
| (Sweat)                                    | Suction line (OD) - in.                                 |       | 3/4            | 3/4            | 3/4            | 7/8            |
| Compressor Type                            |                                                         |       | 1-Stage Scroll | 1-Stage Scroll | 1-Stage Scroll | 1-Stage Scroll |
| Refrigerant (15 ft. Line Set)              | <sup>1</sup> R-454B charge furnished                    |       | 4 lbs. 0 oz.   | 4 lbs. 7 oz.   | 4 lbs. 14 oz.  | 5 lbs. 10 oz.  |
| Refrigerant (30 ft. Line Set)              | <sup>1</sup> R-454B charge furnished                    |       | 4 lbs. 9 oz.   | 5 lbs. 0 oz.   | 5 lbs. 7 oz.   | 6 lbs. 3 oz.   |
| Indoor Unit Expansion Valve (TXV)          |                                                         |       | 26Z70          | 26Z70          | 26Z70          | 26Z70          |
| Outdoor                                    | Net face area - ft. <sup>2</sup>                        |       | 11.33          | 13.22          | 16.33          | 18.67          |
| Coil                                       | Tube diameter - in.                                     |       | 5/16           | 5/16           | 5/16           | 5/16           |
|                                            | Rows                                                    |       | 1              | 1              | 1              | 1              |
|                                            | Fins - in.                                              |       | 26             | 26             | 26             | 26             |
| Outdoor                                    | HP                                                      |       | 1/10           | 1/10           | 1/6            | 1/6            |
| Fan                                        | Diameter - in.                                          |       | 18             | 18             | 22             | 22             |
|                                            | Blades                                                  |       | 3              | 3              | 3              | 3              |
|                                            | Cfm                                                     |       | 2290           | 2350           | 2610           | 2800           |
|                                            | Rpm                                                     |       | 1075           | 1075           | 825            | 825            |
|                                            | Watts                                                   |       | 150            | 155            | 160            | 190            |
| Shipping Data - lbs.                       |                                                         |       | 128            | 134            | 152            | 161            |
| 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 |       | 15             | 20             | 25             | 30             |
|                                            | <sup>3</sup> Minimum circuit ampacity (MCA)             |       | 11.1           | 13.5           | 16.6           | 17.8           |
| Compressor                                 | Rated load amps                                         |       | 8.3            | 10.2           | 12.5           | 13.4           |
|                                            | Locked rotor amps                                       |       | 45             | 60.2           | 67.8           | 82.5           |
| Fan Motor                                  | Full load amps                                          |       | 0.65           | 0.65           | 1.0            | 1.0            |
|                                            | Locked rotor amps                                       |       | 1.3            | 1.3            | 1.9            | 1.9            |
| OPTIONAL CONTROLS - ORDER SEPARATELY       |                                                         |       |                |                |                |                |
| M30 Smart Wi-Fi Thermostat                 | 15Z69                                                   |       | •              | •              | •              | •              |
| Remote Outdoor Temperature Sensor          | X2658                                                   |       | •              | •              | •              | •              |
| OPTIONAL ACCESSORIES - ORDER SEPARATELY    |                                                         |       |                |                |                |                |
| Compressor                                 | Copeland                                                | 27V63 | •              | •              | •              | •              |
| Crankcase Heater                           | LG                                                      | 27U16 | •              | •              | •              | •              |
| Compressor Hard                            | Copeland                                                | 63W22 | •              |                |                |                |
| Start Kit                                  |                                                         | 10J42 |                | •              | •              | •              |
|                                            | LG                                                      | 10J42 | •              | •              | •              | •              |
| Compressor Low Ambient Cut-Off Switch      |                                                         | 45F08 | •              | •              | •              | •              |
| Compressor Timed-Off Control               |                                                         | 47J27 | •              | •              | •              | •              |
| Compressor Sound Cover                     |                                                         | 18J42 | •              | •              | •              | •              |
| 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 | •              | •              | •              | •              |
| Refrigerant                                | 3/8 x 3/4   3/8   20 ft.                                | 89J56 |                |                |                |                |
| 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.                                | 89J61 |                |                |                | •              |
|                                            | 3/8 x 7/8   3/8   50 ft.                                | 89J62 |                |                |                |                |
| Unit Stand-Off Kit                         |                                                         | 94J45 | •              | •              | •              | •              |

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

<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>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> Crankcase Heater and Freezestat are recommended with Low Ambient Kit.

| SPECIFICATIONS                             |                                                         |                     | NORTH REGION   |                |                |
|--------------------------------------------|---------------------------------------------------------|---------------------|----------------|----------------|----------------|
| Size                                       |                                                         |                     | 042            | 048            | 060            |
| Nominal Tonnage                            |                                                         |                     | 3.5            | 4              | 5              |
| Sound Rating Number                        | dBA                                                     |                     | 76             | 78             | 80             |
| Connections<br>(Sweat)                     | Liquid line (OD) - in.                                  |                     | 3/8            | 3/8            | 3/8            |
|                                            | Suction line (OD) - in.                                 |                     | 7/8            | 7/8            | 1-1/8          |
| Compressor Type                            |                                                         |                     | 1-Stage Scroll | 1-Stage Scroll | 1-Stage Scroll |
| Refrigerant (15 ft. Line Set)              | <sup>1</sup> R-454B charge furnished                    |                     | 6 lbs. 2 oz.   | 7 lbs. 10 oz.  | 8 lbs. 8 oz.   |
| Refrigerant (30 ft. Line Set)              | <sup>1</sup> R-454B charge furnished                    |                     | 6 lbs. 11 oz.  | 8 lbs. 3 oz.   | 9 lbs. 1 oz.   |
| Indoor Unit Expansion Valve (TXV)          |                                                         |                     | 26Z71          | 26Z71          | 26Z72          |
| Outdoor<br>Coil                            | Net face area - ft. <sup>2</sup>                        | Outer coil          | 21.00          | 16.33          | 21.00          |
|                                            |                                                         | Inner coil          | - - -          | 16.33          | 20.25          |
|                                            |                                                         | Tube diameter - in. | 5/16           | 5/16           | 5/16           |
|                                            |                                                         | Rows                | 1              | 2              | 2              |
|                                            |                                                         | Fins - in.          | 26             | 22             | 22             |
| Outdoor<br>Fan                             |                                                         | HP                  | 1/3            | 1/4            | 1/6            |
|                                            |                                                         | Diameter - in.      | 22             | 22             | 22             |
|                                            |                                                         | Blades              | 3              | 3              | 4              |
|                                            |                                                         | Cfm                 | 2985           | 2875           | 3250           |
|                                            |                                                         | Rpm                 | 825            | 825            | 845            |
|                                            |                                                         | Watts               | 150            | 160            | 280            |
| Shipping Data - lbs.                       |                                                         |                     | 195            | 215            | 218            |
| ELECTRICAL DATA                            |                                                         |                     |                |                |                |
|                                            | Line voltage data (Volts-Phase-Hz)                      |                     | 208/230-1-60   | 208/230-1-60   | 208/230-1-60   |
|                                            | <sup>2</sup> Maximum overcurrent protection (MOCP) amps |                     | 35             | 40             | 50             |
|                                            | <sup>3</sup> Minimum circuit ampacity (MCA)             |                     | 21.2           | 24.3           | 31.3           |
| Compressor                                 | Rated load amps                                         |                     | 14.9           | 18.0           | 23.7           |
|                                            | Locked rotor amps                                       |                     | 109            | 126            | 157            |
| Fan Motor                                  | Full load amps                                          |                     | 2.6            | 1.7            | 1.7            |
|                                            | Locked rotor amps                                       |                     | - - -          | 3.2            | 3.2            |
| OPTIONAL CONTROLS - ORDER SEPARATELY       |                                                         |                     |                |                |                |
| E30 Smart Wi-Fi Thermostat                 | 20A65                                                   |                     | •              | •              | •              |
| Remote Outdoor Temperature Sensor          | X2658                                                   |                     | •              | •              | •              |
| OPTIONAL ACCESSORIES - ORDER SEPARATELY    |                                                         |                     |                |                |                |
| Compressor                                 | Copeland                                                | 27P59               | •              | Factory        | Factory        |
| Crankcase Heater                           | LG                                                      | 27U16               | •              | Factory        | Factory        |
| Compressor Hard                            | Copeland                                                | 10J42               | •              | •              | •              |
| Start Kit                                  | LG                                                      | 88M91               |                | •              | •              |
| Compressor Low Ambient Cut-Off Switch      |                                                         | 45F08               | •              | •              | •              |
| Compressor Sound Cover                     |                                                         | 18J42               | •              | •              | •              |
| 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               | •              | •              | •              |
| 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                       |                                                         |                     |                |                |                |
| Length                                     | 3/8 x 1-1/8   3/8   50 ft.                              | 73P91               |                |                | •              |
| Unit Stand-Off Kit                         |                                                         | 94J45               | •              | •              | •              |

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

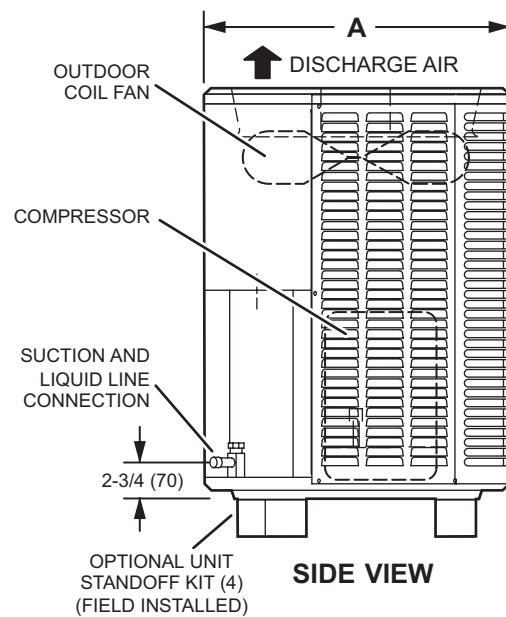
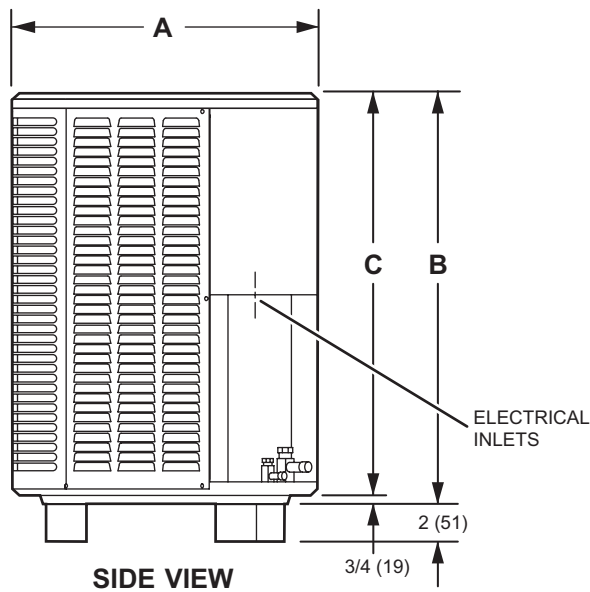
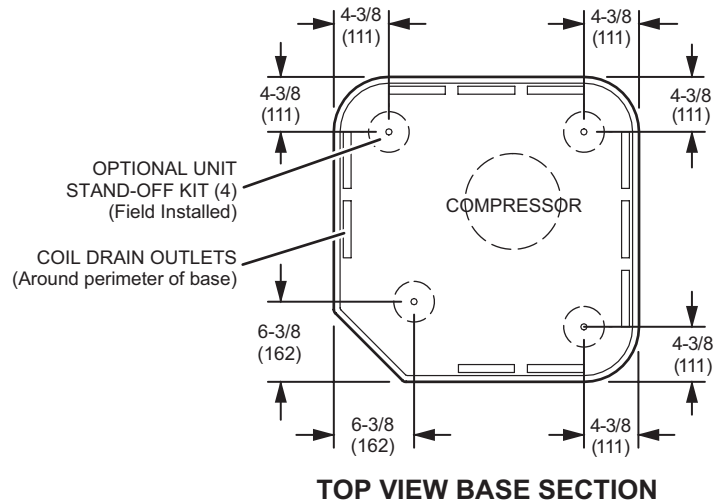
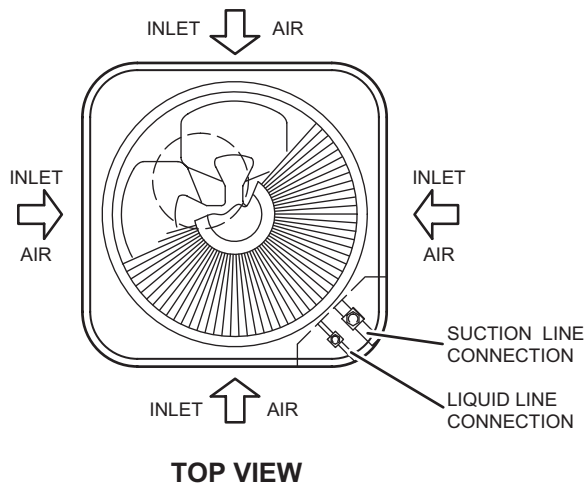
<sup>1</sup> Refrigerant charge sufficient for the line set length listed in parenthesis. For longer line set requirements see the Installation Instructions or unit Charging Label for information about line set length and additional refrigerant charge required.

<sup>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.

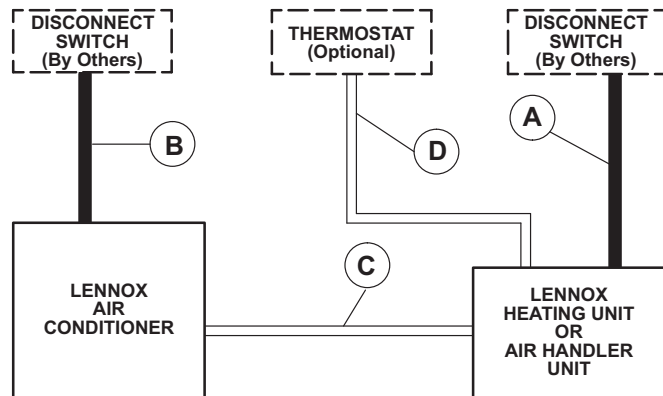
<sup>4</sup> Crankcase Heater and Freezestat are recommended with Low Ambient Kit.

## DIMENSIONS - UNIT



| Size | A<br>Width and Depth |     | B<br>Height |     | C      |     |
|------|----------------------|-----|-------------|-----|--------|-----|
|      | inches               | mm  | inches      | mm  | inches | mm  |
| 018  | 24-1/4               | 616 | 25-1/4      | 641 | 24-1/2 | 622 |
| 024  | 24-1/4               | 616 | 29-1/4      | 743 | 28-1/2 | 724 |
| 030  | 28-1/4               | 718 | 29-1/4      | 743 | 28-1/2 | 724 |
| 036  | 28-1/4               | 718 | 33-1/4      | 845 | 32-1/2 | 826 |
| 042  | 28-1/4               | 718 | 37-1/4      | 946 | 36-1/2 | 927 |
| 048  | 28-1/4               | 718 | 29-1/4      | 743 | 28-1/2 | 724 |
| 060  | 28-1/4               | 718 | 37-1/4      | 946 | 36-1/2 | 927 |

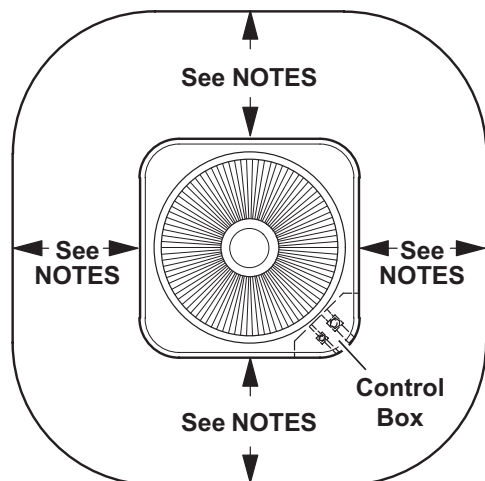
## FIELD WIRING



- A - Two Wire Power (not furnished). See Indoor Unit Electrical Data  
 B - Two Wire 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

## SOUND DATA

| Size | Octave Band Sound Power Levels dBA, re 10 <sup>-12</sup> Watts<br>Center Frequency - HZ |      |      |      |      |      |      | <sup>1</sup> Sound Rating Number (dBA) | <sup>2</sup> Estimated Sound Pressure Level at Distance From Unit (dBA at distance in ft.) |    |    |    |    |
|------|-----------------------------------------------------------------------------------------|------|------|------|------|------|------|----------------------------------------|--------------------------------------------------------------------------------------------|----|----|----|----|
|      | 125                                                                                     | 250  | 500  | 1000 | 2000 | 4000 | 8000 |                                        | 3                                                                                          | 5  | 10 | 15 | 50 |
| 018  | 53                                                                                      | 58.5 | 66.5 | 69.5 | 65   | 62.5 | 54.5 | 73                                     | 66                                                                                         | 61 | 55 | 52 | 41 |
| 024  | 56                                                                                      | 66   | 72   | 71   | 67   | 63   | 56.5 | 76                                     | 69                                                                                         | 64 | 58 | 55 | 44 |
| 030  | 55                                                                                      | 64.5 | 70.5 | 72.5 | 67.5 | 61   | 54   | 76                                     | 69                                                                                         | 64 | 58 | 55 | 44 |
| 036  | 58                                                                                      | 67.5 | 71.5 | 70.5 | 66.5 | 61.5 | 55   | 76                                     | 69                                                                                         | 64 | 58 | 55 | 44 |
| 042  | 56                                                                                      | 65   | 71   | 71.5 | 67.5 | 62   | 55   | 76                                     | 69                                                                                         | 64 | 58 | 55 | 44 |
| 048  | 61.5                                                                                    | 68   | 73.5 | 72.5 | 69   | 64   | 56.5 | 78                                     | 71                                                                                         | 66 | 60 | 57 | 46 |
| 060  | 63.5                                                                                    | 70   | 75   | 75   | 70.5 | 68   | 61   | 80                                     | 73                                                                                         | 68 | 62 | 59 | 48 |

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

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

<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.

## 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  | <b>26Z70</b> |
| 024  | <b>26Z70</b> |
| 030  | <b>26Z70</b> |
| 036  | <b>26Z70</b> |
| 042  | <b>26Z71</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  |                         |                           |
| 018          | 1.5  | 42          | 3.5   | <b>26Z71</b>            | <b>26Z70</b>              |
| 018          | 1.5  | 48          | 4     | <b>26Z71</b>            | <b>26Z70</b>              |
| 018          | 1.5  | 49          | 4     | <b>26Z71</b>            | <b>26Z70</b>              |
| 018          | 1.5  | 50/60       | 4/5   | <b>26Z71</b>            | <b>26Z70</b>              |
| 018          | 1.5  | 51/61       | 4/5   | <b>26Z71</b>            | <b>26Z70</b>              |
| 018          | 1.5  | 60          | 5     | <b>26Z72</b>            | <b>26Z70</b>              |
| 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>              |
| 030          | 2.5  | 42          | 3.5   | <b>26Z71</b>            | <b>26Z70</b>              |
| 030          | 2.5  | 48          | 4     | <b>26Z71</b>            | <b>26Z70</b>              |
| 030          | 2.5  | 49          | 4     | <b>26Z71</b>            | <b>26Z70</b>              |
| 030          | 2.5  | 50/60       | 4/5   | <b>26Z71</b>            | <b>26Z70</b>              |
| 030          | 2.5  | 51/61       | 4/5   | <b>26Z71</b>            | <b>26Z70</b>              |
| 030          | 2.5  | 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>              |
| 042          | 3.5  | 24          | 2     | <b>26Z70</b>            | <b>26Z71</b>              |
| 042          | 3.5  | 30          | 2.5   | <b>26Z70</b>            | <b>26Z71</b>              |
| 042          | 3.5  | 30/36       | 2.5/3 | <b>26Z70</b>            | <b>26Z71</b>              |
| 042          | 3.5  | 36          | 3     | <b>26Z70</b>            | <b>26Z71</b>              |
| 042          | 3.5  | 60          | 5     | <b>26Z72</b>            | <b>26Z71</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                                        |
|----------------------|--------------------------------------------------------------|
| Optional Accessories | Updated Compressor Sound Cover usage for 048 and 060 models. |
| Specifications       | Refrigerant charge updated for 30 ft. of refrigerant lines.  |



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