



## LX Series XC3 Models -13.4 SEER2 Split-System Air Conditioner – Three-Phase R-454B - 3 nominal ton to 5 nominal ton

### Product Features

- The XC3 models are the latest iteration in our successful LX Series split system air conditioner lineup. Optimized for the 13.4 SEER2 Regional Minimum Efficiency in the North US and Canada using LGWP R-454B refrigerant.

### Unit Features

- Small Footprint - Minimum footprint for easier handling, transportation, and installation.
- Easier Installation- Independent panels provide quick access for unit setup. Installation time is reduced by easy power and control wiring access. Matched with indoor TXV for optimal size and performance. The filter-drier is loose shipped for field installation and factory charged for a 15-Ft line set means less time spent brazing and charging the system. The small base dimension and reduced unit clearances make for easier retrofits.
- Accessible Information - QR code on unit provides quick access to technical documents and warranty information.
- Durable Finish - The coated steel wire fan guard, coated external fasteners, and pre-treated G90-equivalent galvanized steel chassis components resist corrosion and rust creep. Powdercoat paint further protects external panels.
- Quality Coils - The high efficiency microchannel aluminum coil is manufactured using an improved material system providing reliable performance and small unit size.
- Rugged Coil Protection - Coils are protected from mechanical damage by a proven stamped steel coil guard design.
- Protected Compressor - Compressors are protected internally by a high pressure relief valve and a temperature sensor, and externally by the system high pressure switch.
- Reliable Operation - Ball bearing fan motors provide superior performance in extreme temperatures.
- Environmentally Friendly - CFC-free LGWP R-454B refrigerant delivers environmentally friendly performance with zero ozone depletion.
- Low Operating Sound Levels - Developed using CFD and FEA tools, the sturdy cabinet and top design provides sound performance of 76 dBA or lower. Compatible accessories for further sound reduction are also available.

### Warranty

- Standard 1-year limited parts warranty.
- Standard 5-year limited compressor warranty

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## Description

The XC3 3-phase models are part of our successful 13.4 SEER2 Regional Minimum Efficiency product line available in the United States and Canada. These outdoor units are specifically designed to be matched with our residential indoor coils, furnaces, and air handlers to provide a complete system solution.

**Figure 1: Installation map**

FOR INSTALLATION IN ALL US REGIONS AND CANADA



Due to continuous product improvement, specifications are subject to change without notice.

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Additional rating information can be found at [www.ahridirectory.org](http://www.ahridirectory.org).

# Tabular Data Sheet

## LX Series Split System Air Conditioners

13.4 SEER2 – R-454B – 3 Phase – 3 to 5 Nominal Ton

Models: XC336 to 60

### Physical and electrical data

| Model                                                      |                   | XC336E3S11              | XC348E3S11 | XC360E3S11 | XC336E4S11            | XC348E4S11 | XC360E4S11 | XC336E5S11            | XC348E5S11 | XC360E5S11 |
|------------------------------------------------------------|-------------------|-------------------------|------------|------------|-----------------------|------------|------------|-----------------------|------------|------------|
| Unit supply voltage                                        |                   | 230 V, 3 $\phi$ , 60 Hz |            |            | 460V, 3 $\phi$ , 60Hz |            |            | 575V, 3 $\phi$ , 60Hz |            |            |
| Normal voltage range <sup>1</sup> (V)                      |                   | 187 to 252              |            |            | 432 to 504            |            |            | 540 to 630            |            |            |
| Minimum circuit ampacity (A)                               |                   | 16.9                    | 18.9       | 24.0       | 6.9                   | 8.1        | 10.8       | 6.0                   | 7.8        | 8.6        |
| Maximum overcurrent device (A) <sup>2</sup>                |                   | 25                      | 30         | 40         | 15                    | 15         | 15         | 15                    | 15         | 15         |
| Minimum overcurrent device (A) <sup>3</sup>                |                   | 20                      | 20         | 25         | 15                    | 15         | 15         | 15                    | 15         | 15         |
| Compressor                                                 | Type <sup>4</sup> | Scroll                  | Scroll     | Scroll     | Scroll                | Scroll     | Scroll     | Scroll                | Scroll     | Scroll     |
|                                                            | Rated load (A)    | 12.8                    | 14.3       | 18.3       | 5.1                   | 6.0        | 8.2        | 4.5                   | 5.8        | 6.4        |
|                                                            | Locked rotor (A)  | 97.5                    | 120.4      | 156.4      | 44.3                  | 49.4       | 69.0       | 27.1                  | 41.0       | 47.8       |
| Crankcase heater                                           |                   | No                      | No         | No         | No                    | No         | No         | No                    | No         | No         |
| Factory external discharge muffler                         |                   | No                      | No         | No         | No                    | No         | No         | No                    | No         | No         |
| Hard start kit required with TXV <sup>5</sup>              |                   | No                      | No         | No         | No                    | No         | No         | No                    | No         | No         |
| Fan diameter (in.)                                         |                   | 18                      | 24         | 26         | 18                    | 24         | 26         | 18                    | 24         | 26         |
| Fan motor                                                  | Rated HP          | 1/4                     | 1/4        | 1/4        | 1/4                   | 1/4        | 1/4        | 1/4                   | 1/4        | 1/4        |
|                                                            | Rated load (A)    | 1.33                    | 1.30       | 1.30       | 0.69                  | 0.65       | 0.65       | 0.53                  | 0.60       | 0.60       |
|                                                            | Nominal RPM       | 1100                    | 850        | 850        | 1100                  | 850        | 850        | 1100                  | 850        | 850        |
|                                                            | Nominal CFM       | 2575                    | 3500       | 4300       | 2575                  | 3500       | 4300       | 2575                  | 3500       | 4300       |
| Coil                                                       | Face area (sq ft) | 13.84                   | 18.7       | 23.33      | 13.84                 | 18.7       | 23.33      | 13.84                 | 18.7       | 23.33      |
|                                                            | Rows deep         | 1                       | 1          | 1          | 1                     | 1          | 1          | 1                     | 1          | 1          |
|                                                            | Fins per inch     | 23                      | 23         | 23         | 23                    | 23         | 23         | 23                    | 23         | 23         |
| Liquid refrigerant piping OD (field-installed)             |                   | 3/8                     | 3/8        | 3/8        | 3/8                   | 3/8        | 3/8        | 3/8                   | 3/8        | 3/8        |
| Vapor refrigerant piping OD (field-installed) <sup>6</sup> |                   | 3/4                     | 7/8        | 1 1/8†     | 3/4                   | 7/8        | 1 1/8†     | 3/4                   | 7/8        | 1 1/8†     |
| Unit charge (lb - oz) <sup>7</sup>                         |                   | 2-14                    | 3-4        | 3-10       | 2-14                  | 3-4        | 3-10       | 2-14                  | 3-4        | 3-10       |
| Charge (oz/ft)                                             |                   | 0.57                    | 0.60       | 0.67       | 0.57                  | 0.60       | 0.67       | 0.57                  | 0.60       | 0.67       |
| Operating weight (lb)                                      |                   | 140                     | 230        | 255        | 140                   | 230        | 255        | 140                   | 230        | 255        |

1. Rated in accordance with AHRI Standard 110-2012, utilization range A.

2. Dual element fuses or HACR circuit breaker. Maximum allowable overcurrent protection.

3. Dual element fuses or HACR circuit breaker. Minimum recommended overcurrent protection.

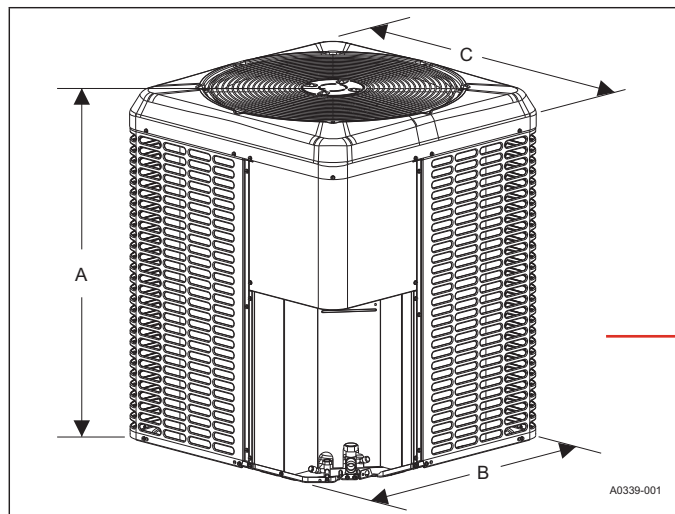
4. Rotary compressor models are limited to an equivalent length of refrigerant piping of 100 ft with no exceptions.

5. Refer to the *Hard Start Kit Accessory Installation Manual* for the hard start kit part number for each model. The hard start kit is a field-installed accessory.

6. For applications with non-standard vapor line sizes, refer to the *Applications and accessories* section in the *Technical Guide*.

7. The unit charge is correct for the outdoor unit, smallest matched indoor unit, and 15 ft of refrigerant tubing. For tubing lengths other than 15 ft, add or subtract the amount of refrigerant, using the difference in actual refrigerant piping length (not the equivalent length) multiplied by the per foot value.

† The adapter fitting must be field-installed for the required 1 1/8 in. refrigerant piping.



### Dimensions

| Unit model | Dimensions<br>(in.) |        |        | Refrigerant connection<br>service valve size (in.) |                  |
|------------|---------------------|--------|--------|----------------------------------------------------|------------------|
|            | A                   | B      | C      | Liquid                                             | Vapor            |
| XC336E3S11 | 36 1/4              | 24     | 24     | 3/8                                                | 3/4              |
| XC336E4S11 |                     |        |        |                                                    |                  |
| XC336E5S11 |                     |        |        |                                                    |                  |
| XC348E3S11 | 33 1/4              | 35 1/4 | 31 3/4 |                                                    | 7/8              |
| XC348E4S11 |                     |        |        |                                                    |                  |
| XC348E5S11 |                     |        |        |                                                    |                  |
| XC360E3S11 | 36 1/4              | 38     | 34 1/4 |                                                    | 7/8 <sup>‡</sup> |
| XC360E4S11 |                     |        |        |                                                    |                  |
| XC360E5S11 |                     |        |        |                                                    |                  |

### Notes:

† Adapter fitting must be field-installed for the required 1 1/8 in. refrigerant piping.

All dimensions are in inches and are subject to change without notice.

Overall height is from the bottom of the base pan to the top of the fan guard.

Overall length and width include screw heads.

## System charge for various matched systems

| Outdoor unit                                   | XC336E3S11             | XC336E4S11 | XC336E5S11 | XC348E3S11 | XC348E4S11 | XC348E5S11 | XC360E3S11 | XC360E4S11 | XC360E5S11 |
|------------------------------------------------|------------------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Required indoor metering device <sup>1,2</sup> | 5C1                    | 5C1        | 5C1        | 5C1        | 5C1        | 5C1        | 5C1        | 5C1        | 5C1        |
| Indoor unit <sup>3,4,5</sup>                   | Additional charge (oz) |            |            |            |            |            |            |            |            |
| JHE18B**B                                      | —                      | —          | —          | —          | —          | —          | —          | —          | —          |
| JHE24B**C                                      | —                      | —          | —          | —          | —          | —          | —          | —          | —          |
| JHE30B**D                                      | —                      | —          | —          | —          | —          | —          | —          | —          | —          |
| JHE36(B,C)**D                                  | 12                     | 12         | 12         | —          | —          | —          | —          | —          | —          |
| JHE42C**F                                      | —                      | —          | —          | —          | —          | —          | —          | —          | —          |
| JHE48(C,D)**G                                  | —                      | —          | —          | 16         | 16         | 16         | —          | —          | —          |
| JHE60(C,D)**H                                  | —                      | —          | —          | —          | —          | —          | 23         | 23         | 23         |
| JHC18B**B                                      | —                      | —          | —          | —          | —          | —          | —          | —          | —          |
| JHC24B**C                                      | —                      | —          | —          | —          | —          | —          | —          | —          | —          |
| JHC36(B,C)**D                                  | —                      | —          | —          | —          | —          | —          | —          | —          | —          |
| JHC42(C,D)**F                                  | —                      | —          | —          | —          | —          | —          | —          | —          | —          |
| JHC48(C,D)**G                                  | —                      | —          | —          | 16         | 16         | 16         | —          | —          | —          |
| JHC60(C,D)**H                                  | —                      | —          | —          | —          | —          | —          | 23         | 23         | 23         |
| CT(F,M,U)18A**A                                | —                      | —          | —          | —          | —          | —          | —          | —          | —          |
| CTF18B**A                                      | —                      | —          | —          | —          | —          | —          | —          | —          | —          |
| CT(F,M,U)24A**B                                | —                      | —          | —          | —          | —          | —          | —          | —          | —          |
| CT(F,M)24B**B                                  | —                      | —          | —          | —          | —          | —          | —          | —          | —          |
| CTF30A**D                                      | —                      | —          | —          | —          | —          | —          | —          | —          | —          |
| CT(F,M,U)30B**C                                | —                      | —          | —          | —          | —          | —          | —          | —          | —          |
| CT(F,M)30C**C                                  | —                      | —          | —          | —          | —          | —          | —          | —          | —          |
| CT(F,M,U)36B**D                                | 12                     | 12         | 12         | —          | —          | —          | —          | —          | —          |
| CTF36B**E                                      | 14                     | 14         | 14         | —          | —          | —          | —          | —          | —          |
| CT(F,M)36C**D                                  | 12                     | 12         | 12         | —          | —          | —          | —          | —          | —          |
| CTF42C**E                                      | 14                     | 14         | 14         | —          | —          | —          | —          | —          | —          |
| CTM42C**E                                      | 14                     | 14         | 14         | —          | —          | —          | —          | —          | —          |
| CT(F,M,U)48C**F                                | —                      | —          | —          | 12         | 12         | 12         | —          | —          | —          |
| CT(F,M)48D**F                                  | —                      | —          | —          | 12         | 12         | 12         | —          | —          | —          |
| CT(F,M,U)60C**G                                | —                      | —          | —          | 16         | 16         | 16         | 19         | 19         | 19         |
| CT(F,M,U)60D**G                                | —                      | —          | —          | 16         | 16         | 16         | 19         | 19         | 19         |
| CT(F,M)60C**H                                  | —                      | —          | —          | —          | —          | —          | 23         | 23         | 23         |
| CT(F,M,U)60D**H                                | —                      | —          | —          | —          | —          | —          | 23         | 23         | 23         |
| CXF36(B,C)**4                                  | 0                      | 0          | 0          | —          | —          | —          | —          | —          | —          |
| CXF42C**5                                      | 1                      | 1          | 1          | —          | —          | —          | —          | —          | —          |
| CXF48(C,D)**6                                  | —                      | —          | —          | 0          | 0          | 0          | —          | —          | —          |
| CXF60(C,D)**7                                  | —                      | —          | —          | 1          | 1          | 1          | 0          | 0          | 0          |

**Note:** Some of the combinations shown in this table require advanced main air circulating fan indoor product. For approved coil only matches, refer to the *Cooling capacity - upflow, downflow, and horizontal furnaces and coils* table in the *Technical Guide*.

- For applications that require a TXV, use S1-1TVM\*\*\* series kit.
- Use a TXV kit with these indoor units to obtain system performance.
- Systems matched with furnaces or air handlers not equipped with blower-off delays may require blower time delay.
- Do not use CTF, CTU, or CXF coils in horizontal applications. CTM coils can be used in horizontal, upflow or downflow applications.
- Charge adders shown above do not indicate that coils are rated for every application. Refer to the performance data tables in the *Technical Guide* for actual performance for specified system matches. Obtain certified system ratings from [www.ahridirectory.org](http://www.ahridirectory.org).

## Charging

- Check the factory unit charge listed on the unit nameplate to verify the refrigerant charge for the outdoor unit, the smallest matched indoor unit, and the 15 ft of interconnecting refrigeration piping.
- Verify the indoor metering device and additional charge required for the specific matched indoor unit in the system using the table above.
- Add additional charge for the amount of interconnecting refrigeration piping greater than 15 ft at the rate specified in the *Physical and electrical data* table.
- For installations requiring additional charge, weigh in refrigerant for the specific matching indoor unit and actual refrigeration piping length.
- After weighing in the charge adders for the matched indoor unit and refrigeration piping, verify the system operation against the temperatures and pressures in the charging chart for the outdoor unit. Locate the charging charts on the outdoor unit and also in the *Service Data Application Guide* on [www.simplygettingthejobdone.com](http://www.simplygettingthejobdone.com). Follow the subcool or superheat charging procedure in the *Installation Manual* according to the type of indoor metering device in the system, and allow 10 min after each charge adjustment for the system operation to stabilize. Record the charge adjustment made to match the charging chart.
- Permanently stamp the unit nameplate with the total system charge defined as follows: total system charge = base charge (as shipped) + charge adder for matched indoor unit + charge adder for actual refrigeration piping length + charge adjustments to match the charging chart.