**RESIDENTIAL PRODUCT SPECIFICATIONS**

**HEAT PUMP OUTDOOR UNITS**

**SL25XPV**

DAVE LENNOX SIGNATURE® COLLECTION

Variable Capacity - Precise Comfort® Technology - 60 Hz

Bulletin No. 210813

September 2021

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**SEER up to 24.0**

**HSPF up to 11.8**

2 to 5 Tons

Cooling Capacity - 22,600 to 56,000 Btuh

Heating Capacity - 21,200 to 60,000 Btuh

---

**MODEL NUMBER IDENTIFICATION**

<table>
<thead>
<tr>
<th>Product Tier</th>
<th>SL = Dave Lennox Signature® Collection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Series</td>
<td></td>
</tr>
<tr>
<td>Refrigerant Type</td>
<td>X = R-410A</td>
</tr>
<tr>
<td>Unit Type</td>
<td>P = Heat Pump Outdoor Unit</td>
</tr>
<tr>
<td>Cooling Stages</td>
<td>V = Variable Capacity Compressor</td>
</tr>
<tr>
<td>Minor Revision Number</td>
<td></td>
</tr>
<tr>
<td>Ratings Revision Level</td>
<td></td>
</tr>
<tr>
<td>Voltage</td>
<td>230 = 208/230V-1ph-60Hz</td>
</tr>
</tbody>
</table>
| Nominal Cooling Capacity | 024 = 2 tons  
|                  | 036 = 3 tons  
|                  | 048 = 4 tons  
|                  | 060 = 5 tons  |

* iComfort® S30 Ultra-Smart Wi-Fi Communicating Thermostat required. Not furnished - Order separately.
FEATURE HIGHLIGHTS

1. Outdoor Coil Fan with Silent Comfort™ Technology Fan Guard
2. Variable-Speed Outdoor Coil Fan Motor with Integrated Control
3. Quantum™ Outdoor Coil
4. Electronic Check/Expansion Valve (EEV)
5. High Pressure Transducer
6. Low Pressure Transducer
7. High Capacity Liquid Line Drier
8. Four-Way Reversing Valve
9. Variable Speed Scroll Compressor
10. Accumulator
11. DC Inverter Control
12. iComfort® Communicating Control
13. SmartHinge™ Louvered Coil Protection
14. Refrigerant Line Connections and Access

NOTE - SL25XPV MODELS CAN ONLY BE MATCHED WITH iCOMFORT®-ENABLED VARIABLE-SPEED INDOOR FURNACES AND AIR HANDLERS.
NOTE - SL25XPV MODELS CAN ONLY BE USED WITH AN iCOMFORT® COMMUNICATING THERMOSTAT.

CONTENTS

Approvals And Warranty ................................................................. 3
Dimensions - Unit ......................................................................... 10
Electrical Data ................................................................................. 8
Features ......................................................................................... 3
Field Wiring ..................................................................................... 9
Installation Clearances ................................................................. 9
Model Number Identification ...................................................... 1
Optional Accessories - Order Separately .................................. 8
Required Components - Order Separately ................................ 8
Sound Data ..................................................................................... 9
Specifications ................................................................................. 8
TXV Substitution ............................................................................. 11
TXV Usage ....................................................................................... 11
**APPROVALS AND WARRANTY**

**APPROVALS**
- AHRI Standard 210/240 certified
- AHRI Certified system match-ups and expanded ratings, visit www.LennoxPros.com
- ENERGY STAR® Certified (certain units)
- Sound rated to AHRI Standard 270 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 ten years in residential installations
  - Limited one year in non-residential installations

**NOTE** - Refer to Lennox Equipment Limited Warranty certificate included with unit for specific details.

**FEATURES**

**APPLICATIONS**
- 2 through 5 ton
- Sound levels as low as 55 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

**NOTE** - The SL25XPV heat pump can only be matched with iComfort® Communicating variable-speed indoor furnaces and air handlers.

**REFRIGERATION SYSTEM**
- R-410A Refrigerant
  - Non-chlorine, ozone friendly
  - Unit is factory pre-charged

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

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

1. **Outdoor Coil Fan with Silent Comfort™ Technology**
   - Specially-designed, SilentComfort™ fan guard uses Passive Vortex Suppression to reduce air noise
   - Fan guard constructed of corrosion-resistant PVC (polyvinyl chloride) coated steel
   - Specially designed fan blades reduce operating sound levels
   - Direct drive fan moves large air volumes uniformly through entire condenser coil for high refrigerant cooling capacity
   - Vertical air discharge
   - Fan service access by removal of fan guard

2. **Variable-Speed Outdoor Coil Fan Motor With Integrated Control**
   - Programmed for variable capacity operation
   - Fan speed is directly controlled by the iComfort® communications between the outdoor unit iComfort® control and the iComfort® thermostat
   - Inherently protected
   - Totally enclosed

3. **Quantum™ Coil**
   - Enhanced aluminum alloy tube/enhanced fin coil
   - Superior corrosion resistance
   - Lennox designed and fabricated coil
   - 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
REFRIGERATION SYSTEM (continued)

4 Electronic Check/Expansion Valve (EEV) - Outdoor Unit
   • Designed and sized for heat pump systems
   • Precise refrigerant flow is controlled by signals from the iComfort Control
   • Measures pressure and temperature for precise superheat control

Discharge Temperature Switch
   • Shuts off unit if operating conditions cause the compressor discharge line temperature to rise above setpoint
   • Protects compressor from excessive pressure / temperature
   • Automatic reset when temperature drops below setpoint

5 High Pressure Transducer
   • Measures pressure in the liquid line
   • Pressure readings are used to calculate subcooling values to assist with charging

6 Low Pressure Transducer
   • Shuts off unit if suction pressure falls below setting
   • Provides loss of charge and freeze-up protection

High Pressure Switch
   • Protects the system from high pressure conditions
   • Automatic reset

Low Pressure Switch
   • Shuts off unit if suction pressure falls below setting
   • Loss of charge and freeze-up protection
   • Automatic reset

7 High Capacity Liquid Line Drier
   • Factory installed in the liquid line
   • Traps moisture or dirt
   • 100% molecular-sieve, bead type, drier

8 Four-Way Reversing Valve
   • Rapid changeover of refrigerant flow direction from cooling to heating and vice versa
   • Operates on pressure differential between outdoor unit and indoor coil
   • Factory installed

Optional Accessories

Check/Expansion Valve Kits
   • Field installed on certain indoor units
   • See TXV Usage table
   • Chatleff style fitting

Freezestat
   • Senses suction line temperature
   • Cycles compressor off when suction line temperature falls below its 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

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

NOTE - The SL25XPV is a variable capacity heat pump utilizing variable speed compressor technology. With the variable speed compressor and variable pumping capacity, additional consideration must be given to refrigerant piping sizing and application. Refer to the Installation Instructions or Service Literature for Line Set Requirements and Refrigerant Piping Guidelines.
**PRECISE COMFORT® TECHNOLOGY**

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

![Variable Speed Scroll Compressor](image1)

**Variable Speed Scroll Compressor**
- Operates on a variable frequency determined by the DC Inverter Control to vary capacity based on the cooling load required
  - High volumetric efficiency
  - Uniform suction flow
  - Constant discharge flow
  - Quiet operation

**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

**Accumulator**
- Standard in all models

**Compressor Crankcase Heater**
- Protects against refrigerant migration that can occur during low ambient operation
- Factory Installed

**Compressor Sound Dampening System**
- Comprised of a vinyl and polyester composite
- Inner and outer layer sound cover standard on all sizes
- Inner layer sound cover (2 and 3 ton units only)
- All open edges sealed with one-inch wide hook and loop fastening tape
- Rubber dampeners standard on all sizes to reduce sound levels

![DC Inverter Control](image2)

**DC Inverter Control**
- Converts AC line voltage into filtered variable DC voltage
- Provides continuous compressor operation, while adjusting the capacity according to indoor temperature
- Adjusts compressor output in increments as small as 1%
- The accurate sensing of cooling or heating load prevents frequent changes in capacity and ensures efficient, economical operation
- Power Factor Correction (PFC) circuit monitors the DC bus for high, low and abnormal voltage conditions to protect the compressor
- Integrated noise filter reduces unwanted electromagnetic interference (EMI)
- The inverter reactor (mounted separately) adds inductance to the line between the inverter and the compressor to limit current rise and protect the compressor
CONTROLS

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

NOTE - A 6-pin RAST connector is also provided for outdoor unit wiring connections to the control.

Low Ambient Operation
- Cooling Mode - The heat pump can operate down to 0°F outdoor air temperature in the cooling mode.

NOTE - A freezeestat is recommended for extra protection during low ambient cooling operation.
- Heating Mode (Low Temperature Protection)
  Outdoor unit will not operate in the heating mode when the outdoor temperature is at or below −4°F
  If the unit is operating and the outdoor temperature drops below −4°F, the unit will continue to operate until the room thermostat is satisfied or the outdoor temperature drops to −15°F

Climate IQ™ Technology
- Optimizes dehumidification settings for specific climates to improve home comfort during cooling or heating operation

iComfort Communicating Thermostat Settings:
- Cooling Mode
  - Three climate settings are available:
    - Dry - The system supplies higher indoor airflow at all compressor capacities, increasing efficiency by operating at a higher sensible to total ratio
    - Moderate - The system supplies indoor airflow that balances efficiency and comfort
    - Humid - The system supplies lower indoor airflow at all compressor capacities, improving humidity removal by operating at a lower sensible to total ratio

- Heating Mode
  - Two climate settings are available:
    - Comfort - The system reduces indoor airflow, increasing supply air temperature
    - Normal - Standard system operation

iComfort® S30 Thermostat Setting:
- Climate IQ (Auto) - Dry, Normal, Basic and Humid modes are automatically set based on the difference between the measured relative humidity and the relative humidity setting
  - All modes are selected on the iComfort® Communicating Thermostat

TruHeat Performance
- Optimizes system heating performance by providing higher discharge air temperatures, resulting in higher levels of comfort
  - More closely resembles the warm discharge air of a furnace and is significantly warmer than typical heat pump systems
  - Enabled on the iComfort Thermostat (Select “Comfort” in User Settings under “Select Heat Pump Mode”)

Outdoor Air Temperature Sensor
- Used with iComfort® Communicating Thermostats
- Sensor allows thermostat to display outdoor temperature
- Sensor is auto-detected when connected to thermostat
CONTROLS (continued)

REQUIRED COMPONENTS

NOTE - The SL25XPV heat pump can only be used with an iComfort® Communicating Thermostat

iComfort® S30 Ultra-Smart Wi-Fi Thermostat (part of the iComfort® Residential Communicating Control System)

- Recognizes and connects to all iComfort® Communicating products to automatically configure and control the heating/cooling system (based on user-specified settings) for the highest level of comfort, performance and efficiency
- Recognizes model and serial number information for iComfort® Communicating products to simplify system setup
- Wi-Fi remote temperature monitoring and adjustment through a home wireless network for desktop PCs, laptops and apps for smartphones or tablets
- Smart home automation compatible with Apple HomeKit™, Amazon Alexa®, Google Assistant and IFTTT
- Service alerts and reminders sent via text message or e-mail
- Service Dashboard features online real-time monitoring of installed iComfort® Communicating systems
- Simple, easy-to-use touchscreen allows complete system configuration
- Scheduled maintenance alerts, system warnings and troubleshooting are also displayed on thermostat screen
- Easy to read 7 inch high definition color display (measured diagonally)
- Installer setup screens allow quick and simple system configuration without a manual, Installer can also run tests on complete system or individual components for easy maintenance and troubleshooting
- Serial communications bus (RSBus), with less wiring than a conventional heating/cooling system, allows system communication
- Uses 4-wire standard thermostat wiring
- High Definition Color Display with Subbase, Smart Hub Controller, wallplate (for retrofit installations) furnished for easy installation

NOTE - See the iComfort® S30 Thermostat Product Specifications bulletin in the Controls section for more information.

CABINET

- Heavy-gauge steel construction
- Louvered steel panels surround unit on all four sides
- Pre-painted cabinet finish
- Control box is conveniently located with all controls factory wired
- 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

PermaGuard™ Unit Base

- Durable zinc-coated base section resists rust and corrosion

SmartHinge™ 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

Optional Accessories

Snow Guard

- For use in locations where the possibility of heavy snow or freezing rain accumulation may occur
- Heavy gauge powder coated steel guard
- Deflects snow and ice away from the outdoor fan
## SPECIFICATIONS

### General Data

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Tonnage</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
</tbody>
</table>

### Connections (sweat)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid line (o.d.) - in.</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8</td>
</tr>
<tr>
<td>Vapor line (o.d.) - in.</td>
<td>7/8</td>
<td>7/8</td>
<td>7/8</td>
<td>1-1/8</td>
</tr>
</tbody>
</table>

### Refrigerant

1 R-410A charge furnished:

<table>
<thead>
<tr>
<th></th>
<th>13 lbs. 3 oz.</th>
<th>12 lbs. 10 oz.</th>
<th>16 lbs. 0 oz.</th>
<th>15 lbs. 14 oz.</th>
</tr>
</thead>
</table>

### Outdoor Coil

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Net face area - sq. ft.</td>
<td>20.73</td>
<td>20.73</td>
<td>27.21</td>
<td>27.21</td>
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<tr>
<td>Outer coil</td>
<td>20.08</td>
<td>20.08</td>
<td>26.36</td>
<td>26.36</td>
</tr>
<tr>
<td>Inner Coil</td>
<td>5/16</td>
<td>5/16</td>
<td>5/16</td>
<td>5/16</td>
</tr>
<tr>
<td>No. of rows</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Fins per inch</td>
<td>22</td>
<td>22</td>
<td>22</td>
<td>22</td>
</tr>
</tbody>
</table>

### Outdoor Fan

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Diameter - in.</td>
<td>26</td>
<td>26</td>
<td>26</td>
<td>26</td>
</tr>
<tr>
<td>No. of blades</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Motor hp (W)</td>
<td>1/3</td>
<td>1/3</td>
<td>1/3</td>
<td>1/3</td>
</tr>
<tr>
<td>Cfm - Max. Speed</td>
<td>3800</td>
<td>4300</td>
<td>4300</td>
<td>4300</td>
</tr>
<tr>
<td>Min. Speed</td>
<td>2100</td>
<td>1900</td>
<td>1700</td>
<td>1700</td>
</tr>
<tr>
<td>Rpm - Max. Speed</td>
<td>607</td>
<td>734</td>
<td>861</td>
<td>872</td>
</tr>
<tr>
<td>Min. Speed</td>
<td>406</td>
<td>353</td>
<td>416</td>
<td>385</td>
</tr>
<tr>
<td>Watts - Max. Speed</td>
<td>101</td>
<td>216</td>
<td>229</td>
<td>229</td>
</tr>
<tr>
<td>Min. Speed</td>
<td>35</td>
<td>36</td>
<td>34</td>
<td>30</td>
</tr>
</tbody>
</table>

### Shipping Data - lbs. - 1 pkg.

|               | 268         | 275         | 313         | 318         |

### ELECTRICAL DATA

<table>
<thead>
<tr>
<th>Line voltage data - 60hz</th>
<th>208/230V-1ph</th>
<th>208/230V-1ph</th>
<th>208/230V-1ph</th>
<th>208/230V-1ph</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 Maximum overcurrent protection (MOCP) amps</td>
<td>25</td>
<td>30</td>
<td>35</td>
<td>35</td>
</tr>
<tr>
<td>3 Minimum circuit ampacity (MCA)</td>
<td>20.3</td>
<td>25.6</td>
<td>32.8</td>
<td>32.8</td>
</tr>
<tr>
<td>Compressor Inverter Input Current Amps</td>
<td>14</td>
<td>18.2</td>
<td>24</td>
<td>24</td>
</tr>
<tr>
<td>Outdoor Coil Fan Motor Full load amps</td>
<td>2.6</td>
<td>2.6</td>
<td>2.6</td>
<td>2.6</td>
</tr>
</tbody>
</table>

### REQUIRED COMPONENTS - ORDER SEPARATELY

- iComfort® S30 Ultra-Smart Wi-Fi Thermostat: 19V30
- Discharge Air Temperature Sensor: 88K38
- Freezestat 3/8 in. tubing: 93G35
- Freezestat 5/8 in. tubing: 50A93
- Snow Guard 40 x 36 in.: X8782

### OPTIONAL ACCESSORIES - ORDER SEPARATELY

- iComfort® Communicating Thermostats for optional service diagnostics.
- Freezestat is recommended for Low Ambient operation.
- Refer to the Installation Instructions or Service Literature for Line Set Requirements and Refrigerant Piping Guidelines.

```
1 Refrigerant charge sufficient for 15 ft. length of refrigerant lines. For longer line set requirements see the Installation Instructions for information about line set length and additional refrigerant charge required.
2 HACR type breaker or fuse.
3 Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.
4 Used with the iComfort® Communicating Thermostats for optional service diagnostics.
5 Freezestat is recommended for Low Ambient operation.
6 Refer to the Installation Instructions or Service Literature for Line Set Requirements and Refrigerant Piping Guidelines.
7 Adds 11-1/2 inches (292 mm) to unit height.
```
### Sound Data

<table>
<thead>
<tr>
<th>Octave Band</th>
<th>Sound Power Levels dBA, re 10^-12 Watts</th>
<th>Sound Rating Number (dBA)</th>
<th>Estimated Sound Pressure Level at Distance From Unit (dBA at distance in ft.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center Frequency - HZ</td>
<td>125</td>
<td>250</td>
<td>500</td>
</tr>
<tr>
<td>024 Min.</td>
<td>48.4</td>
<td>49.5</td>
<td>45.7</td>
</tr>
<tr>
<td>024 Max.</td>
<td>54.3</td>
<td>54.9</td>
<td>54.1</td>
</tr>
<tr>
<td>036 Min.</td>
<td>47.8</td>
<td>44.6</td>
<td>42.9</td>
</tr>
<tr>
<td>036 Max.</td>
<td>57.7</td>
<td>59.5</td>
<td>60.3</td>
</tr>
<tr>
<td>048 Min.</td>
<td>52.2</td>
<td>51.4</td>
<td>48.6</td>
</tr>
<tr>
<td>048 Max.</td>
<td>59.4</td>
<td>62.2</td>
<td>63.6</td>
</tr>
<tr>
<td>060 Min.</td>
<td>54.8</td>
<td>53.5</td>
<td>54.2</td>
</tr>
<tr>
<td>060 Max.</td>
<td>63.7</td>
<td>62.1</td>
<td>65.3</td>
</tr>
</tbody>
</table>

1. The octave sound power data does not include tonal correction.

2. Estimated sound pressure level at distance based on AHRI Standard 275 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.

### Installation Clearances

**Notes**

- One of these three sides must be 36 in. (914 mm).
- One of the remaining sides may be 12 in. (305 mm).
- The remaining side may be 6 in. (152 mm).

**Service Clearance**

- 30 in. (762 mm)

**48 in. (1219 mm) clearance required on top of unit**

**24 in. (610 mm) required between two units**

### Field Wiring

- **A** - Two Wire Power
- **B** - Two or Three Wire Power (size to heater capacity)
- **C** - iComfort® Communicating Thermostat:
  - Four Wire, 18AWG (RBus)
- **D** - iComfort® Communicating Thermostat:
  - Two Wire, 18AWG (RBus) unshielded thermostat cable for low voltage Smart Hub power terminals (R, C, + and -)
  - Two Wire, 18 to 22AWG (RBus) shielded thermostat cable recommended for Smart Hub communications terminals (I+, I-, A and B)

**Note**

- All wiring must conform to NEC or CEC and local electrical codes.
- Field wiring is not furnished.
**DIMENSIONS - UNIT**

**TOP VIEW**

**SIDE VIEW**

**ACCESS VIEW**

**UNIT SUPPORT FEET**

- 16-7/8 (429)
- 8-3/4 (222)
- 3-1/8 (79)
- 30-3/4 (781)
- 4-5/8 (117)
- 3-3/4 (95)

**TOP VIEW BASE SECTION**

(Large Base)

- 26-7/8 (683)
- 35-1/2 (902) (Width)
- 39-1/2 (1003) (Depth)

**DIMENSIONS - UNIT**

- DISCHARGE AIR
- LIQUID LINE INLET
- SUCTION LINE INLET

**HIGH VOLTAGE ELECTRICAL INLET**
- (024, 036)
- (048, 060)

**LOW VOLTAGE ELECTRICAL INLET**
- 16-5/8 (422)
- 18-1/2 (470)

- 8 (203)
- 1 (25)
AHRI STANDARD 210/240

Cooling or heating capacities are net values, including the effects of blower motor heat, and do not include supplementary heat. Power input is the total power input to the compressor(s) and fan(s), plus any controls and other items required as part of the system for normal operation.

Units which do not have an indoor air-circulating blower furnished as part of the model, i.e., split system with indoor coil only, is established by subtracting from the total cooling capacity 1250 Btu/h per 1,000 cfm, and by adding the same amount to the heating capacity. Total power input for both heating and cooling is increased by 365 W per 1,000 cfm of indoor air circulated.

TXV SUBSTITUTION

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

<table>
<thead>
<tr>
<th>Outdoor Unit Model No.</th>
<th>TXV Furnished</th>
<th>TXV Replacement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SL25XPV-024 12J18</td>
<td>12J20</td>
<td>12J18</td>
</tr>
<tr>
<td>SL25XPV-036 12J19</td>
<td>12J20</td>
<td>12J18</td>
</tr>
<tr>
<td>SL25XPV-048 12J20</td>
<td>12J20</td>
<td>12J18</td>
</tr>
<tr>
<td>SL25XPV-060 12J20</td>
<td>12J20</td>
<td>12J18</td>
</tr>
</tbody>
</table>

TXV Ranges:

- **12J18** - 1.5 to 2.5 ton systems - Use on 2.5 ton (030) and lower systems.
- **12J19** - 3 ton systems - Use down to 2 ton (024) systems.
- **12J20** - 3.5 to 5 ton systems - Use down to 3 ton (036) systems.

TXV USAGE

Use this table for C35, CH23, CH35 and CR33 Field Installed TXV Match-Ups (if a valid match)

<table>
<thead>
<tr>
<th>Outdoor Unit Model No.</th>
<th>Order No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SL25XPV-024</td>
<td>12J18</td>
</tr>
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<td>SL25XPV-060</td>
<td>12J20</td>
</tr>
</tbody>
</table>

CX35 and CHX35 coils and all Lennox air handlers are shipped with a factory installed TXV.

C35 and CH35 coils - Replace the factory installed orifice with the expansion valve listed.

CH23 and CR33 - Use the expansion valve listed.