

HEAT PUMP OUTDOOR UNITS



XP25

DAVE LENNOX SIGNATURE® COLLECTION
Variable Capacity - Precise Comfort® Technology

PRODUCT SPECIFICATIONS

Bulletin No. 210659
 October 2017
 Supersedes August 2017

DAVE LENNOX
signature
 COLLECTION



iComfort®

So simple. So smart. So comfortable.



* iComfort® S30
 Thermostat

SUNSOURCE®
 Home Energy System



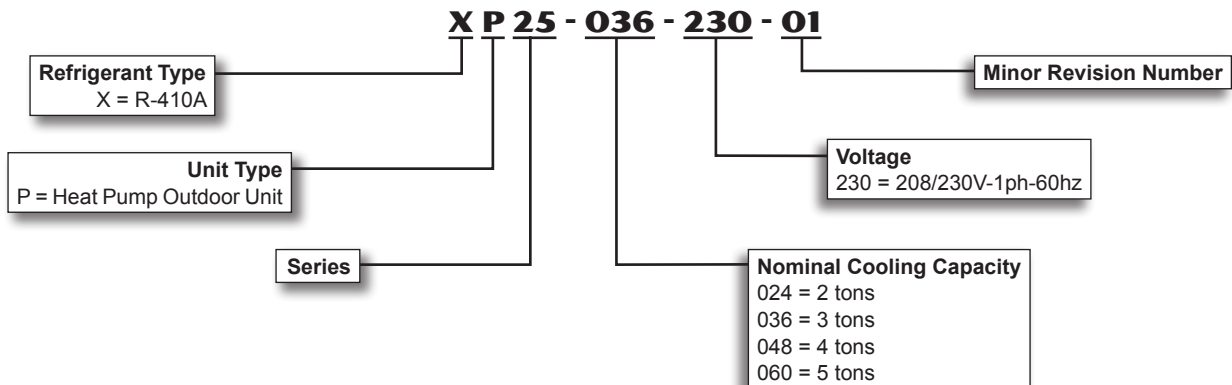
SEER up to 23.50

2 to 5 Tons

Cooling Capacity - 22,200 to 60,500 Btuh

Heating Capacity - 20,800 to 55,500 Btuh

MODEL NUMBER IDENTIFICATION



* iComfort® Communicating Thermostat required. Not furnished - Order separately.

FEATURES

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WARRANTY

Compressor - Ten year limited warranty in residential installations and five years in non-residential installations.

All other covered components - Ten years in residential installations and one year in non-residential installations.

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

APPROVALS

AHRI Certified to AHRI Standard 210/240-2008.

Sound rated in Lennox reverberant sound test room in accordance with test conditions included in AHRI Standard 270-2008.

Tested in the Lennox Research Laboratory environmental test room.

Rated according to U.S. Department of Energy (DOE) test procedures.

Heat pumps and components within bonded for grounding to meet safety standards for servicing required by UL, NEC and CEC.

Units are ETL certified for the U.S. and Canada.

ISO 9001 Registered Manufacturing Quality System.

For expanded ratings, see www.LennoxPROs.com.

ENERGY STAR® certified units are designed to use less energy, help save money on utility bills, and help protect the environment. Many Lennox home comfort systems meet ENERGY STAR requirements when used with matching components.

APPLICATIONS

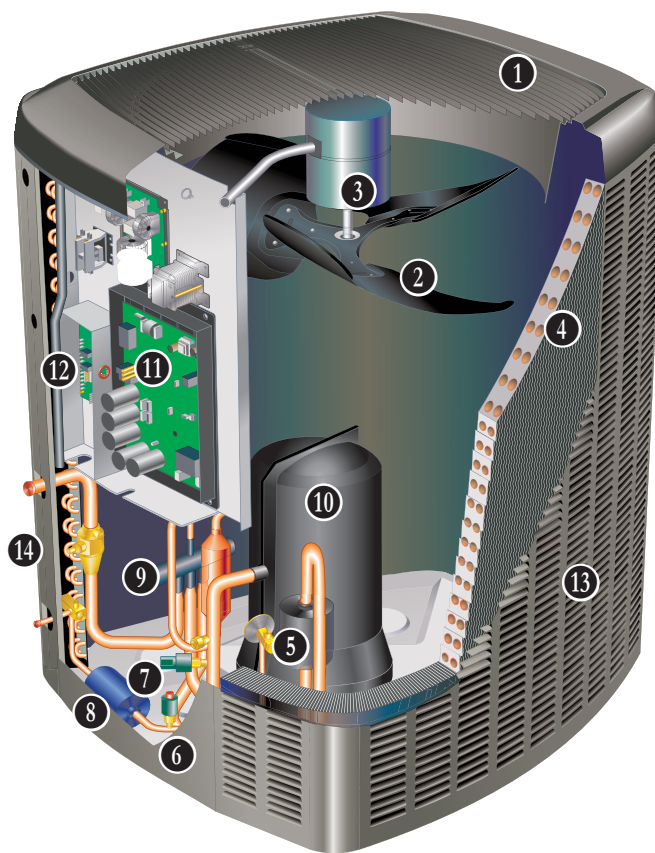
SEER up to 23.50.

HSPF up to 10.20.

2 through 5 ton.

Single phase power supply.

Sound levels as low as 58 dB.



Vertical air discharge allows concealment behind shrubs at grade level or out of sight on a roof.

Designed for applications with remotely located indoor air handler units or gas furnaces with indoor add-on coils.

See Indoor Coils and Air Handlers sections for indoor unit data.

Units shipped completely factory assembled, piped, and wired. Each unit is test operated at the factory ensuring proper operation.

Installer must set heat pump, connect refrigerant lines, and make electrical connections to complete job.

When heat pumps are used with gas furnaces, a dual-fuel compatible thermostat or a zone control system with dual-fuel capabilities must be used (order separately).

NOTE - The XP25 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, R-410A.

Unit is factory pre-charged with refrigerant. Total system refrigerant charge is dependant on outdoor unit size, indoor unit size and refrigerant line length.

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

See Specification table.



FEATURES

REFRIGERATION SYSTEM (continued)

- 1 Outdoor Coil Fan with SilentComfort™ Technology**

Specially-designed, SilentComfort™ fan guard uses Passive Vortex Suppression to reduce air noise.
Constructed of corrosion-resistant PVC (polyvinyl chloride) coated steel.
- 2** Direct drive fan moves large air volumes uniformly through entire outdoor coil for high refrigerant cooling capacity.
Vertical air discharge minimizes operating sounds and eliminates damage to lawn and shrubs.
Fan service access accomplished by removal of fan guard.
- 3 Variable-Speed Outdoor Coil Fan Motor With Integrated Control**

Outdoor coil fan motor with integrated control is programmed for variable capacity operation. Fan speed is directly controlled by the iComfort® communications between the outdoor unit iComfort® control and the iComfort Wi-Fi® thermostat.
Fan motor is inherently protected.
Motor totally enclosed for maximum protection from weather, dust and corrosion.
- 4 Copper Tube/Enhanced Fin Coil**

Lennox designed and fabricated coil.
Ripple-edged aluminum fins.
Copper tube construction.
Lanced fins provide maximum exposure of fin surface to air stream resulting in excellent heat transfer.
Fin collars grip tubing for maximum contact area.
Inverted coil circuiting prevents ice buildup at coil base in low ambients. Discharge gas enters bottom of coil during defrost and heat of refrigerant flows counter to water drainage resulting in extremely clean and unobstructed fins and tubes.
Fin spacing allows rapid and complete water drainage.
Flared shoulder tubing connections/silver soldering construction.
Coil is factory tested under high pressure to ensure leakproof construction.
Entire coil is accessible for cleaning.
- 5 Check/Expansion Valve - Outdoor Unit**

Designed and sized specifically for use in heat pump system.
Sensing bulb is located on the suction line between reversing valve and compressor thus sensing suction temperature in the heat cycle.
Factory installed and piped.

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.

- 6 High Pressure Switch**

Shuts off unit if abnormal operating conditions cause the discharge pressure to rise above setting.
Protects compressor from excessive condensing pressure.
Automatic reset.
- 7 Low Pressure Switch**

Shuts off unit if suction pressure falls below setting.
Provides loss of charge and freeze-up protection.
Automatic reset.
- 8 Hi-Capacity Liquid Line Drier**

Factory installed in the liquid line, the drier traps moisture or dirt that could contaminate the refrigerant system.
100% molecular-sieve bead type drier.
- 9 Reversing Valve**

4-way interchange reversing valve effects a rapid change in direction of refrigerant flow resulting in quick changeover from cooling to heating and vice versa.
Valve operates on pressure differential between outdoor unit and indoor unit of the system. Factory installed.

Optional Accessories

Check/Expansion Valve Kits

Must be ordered separately and field installed on certain indoor units. See TXV Usage table.

Chatleff style fitting.

Freezestat

Installs on or near the discharge line of the evaporator or on the suction line.

Senses suction line temperature and cycles the compressor off when suction line temperature falls below it's setpoint.

Opens at 29°F and closes at 58°F.

Refrigerant Line Kits

Refrigerant lines (suction & liquid) are shipped refrigeration clean. Lines are cleaned, dried, pressurized, and sealed at factory.

Suction line fully insulated.

L15 lines are stubbed at both ends.

See Specifications table for selection.

Not available for -060 model and must be field fabricated.

NOTE - The XP25 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.

Please refer to the Installation Instructions or Service Literature for Line Set Requirements and Refrigerant Piping Guidelines.

FEATURES

PRECISE COMFORT® TECHNOLOGY

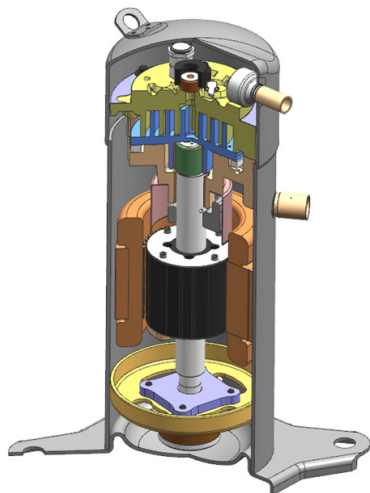
The Variable Capacity Compressor and DC Inverter Control is an integrated system that operates together to reduce overall energy usage when compared to conventional heat pumps.

10 Variable Capacity Scroll Compressor

Operates on a variable frequency determined by the DC Inverter Control to vary capacity based on the heating or cooling load required.

Features high efficiency with uniform suction flow, constant discharge flow, high volumetric efficiency and quiet operation.

Consists of two involute spiral scrolls matched together to 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.

Top Cap Thermal Sensor Switch

Located on top of the compressor casing.

Discontinues compressor operation in case of abnormal operating conditions.

Compressor Sound Dampening System

A polyethylene compressor cover containing a 2 inch thick batt of fiberglass insulation for better sound dampening.

All open edges are sealed with a one-inch wide hook and loop fastening tape.

11 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 loads prevents frequent changes in capacity and ensures efficient, economical operation.

Noise filter reduces unwanted electromagnetic interference (EMI). Integrated on the control for 024 and 036 models, external to the control for 048 and 060 models.

Power Factor Correction (PFC) circuit monitors the DC bus for high, low and abnormal voltage conditions to protect the compressor.

Two LEDs (red and green) indicate inverter operating status and aid in troubleshooting.

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

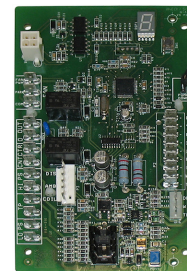
12 iComfort® Communicating Control

Advanced control communicates information about various operating parameters in the air conditioner to the iComfort® Communicating 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 also features:

- Seven-Segment Display shows information about outdoor unit type and capacity and also displays alerts for common fault conditions (electrical and mechanical).
- Low voltage protection prevents compressor operation when voltage is not within the specified range.
- Compressor defrost shift delay - Adjustable 0 (factory) or 30 seconds.
- Demand defrost using outdoor ambient air temperature, coil temperature and compressor run-time inputs. 14 minute maximum defrost time.



FEATURES

CONTROLS (continued)

Comfort® Control (continued)

- Selectable defrost termination temperature - 50, 70, 90 or 100°F. Default setting is 50°F.
- High and low pressure switch monitoring with provisions for lockout.
- Five-Strike lockout protection protects compressor.
- Discharge line temperature and outdoor air temperature 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.

Low Ambient Operation

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

NOTE - A freeze-stat 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 Wi-Fi® 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.

Outdoor Air Temperature Sensor

Used with iComfort® Communicating Thermostats.

Sensor allows thermostat to display outdoor temperature. Sensor is auto-detected when connected to thermostat.

REQUIRED COMPONENTS

NOTE - The XP25 heat pump can only be used with an iComfort® Communicating Thermostat.

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

The *iComfort® S30 Thermostat* 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. Also 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. Also displays service alerts and reminders.

Dealer Dashboard features online real-time monitoring of installed iComfort® Communicating systems.

A simple easy-to-use touchscreen allows complete system configuration. Scheduled maintenance alerts, system warnings and troubleshooting are also displayed on thermostat screen.

Works with Amazon® Alexa-enabled products.

Easy to read 7 in. 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, 18-gauge standard thermostat wiring.

Remote outdoor temperature sensor (furnished with outdoor unit) allows the thermostat to display outdoor temperature. Required in dual-fuel and applications.

High Definition Color Display, Mag-Mount, Smart Hub Controller, wallplate (for retrofit installations) furnished for easy installation.

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

FEATURES

CONTROLS (continued)

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

The *iComfort Wi-Fi® Thermostat* recognizes and connects to all iComfort® Communicating products

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A 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 color screen (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, 18-gauge standard thermostat wiring.

Remote outdoor temperature sensor (furnished with outdoor unit) allows the thermostat to display outdoor temperature. Required in dual-fuel applications.

See the *iComfort Wi-Fi® Thermostat* Product Specifications bulletin in the Controls section for more information.

CABINET

Heavy-gauge steel construction

Pre-painted cabinet finish.

Compressor and control box located in a separate compartment, insulated with thick fiberglass insulation.

Compartment provides protection from the weather and keeps sound transmission at a minimum.

Control box is conveniently located with all controls factory wired.

Large removable panel provides service access.

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.

13 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.



14 Refrigerant Line Connections, Electrical Inlets and Service Valves

Vapor and liquid lines are located on corner of unit cabinet and are made with sweat connections. See dimension drawing.

Fully serviceable brass service valves prevent corrosion and provide access to refrigerant system. Vapor valve can be fully shut off, while liquid valve may be front seated to manage refrigerant charge while servicing system.

Vapor and liquid line service valves and gauge ports are located inside the cabinet.

Refrigerant line connections and field wiring inlets are located in one central area of the cabinet. See dimension drawing.

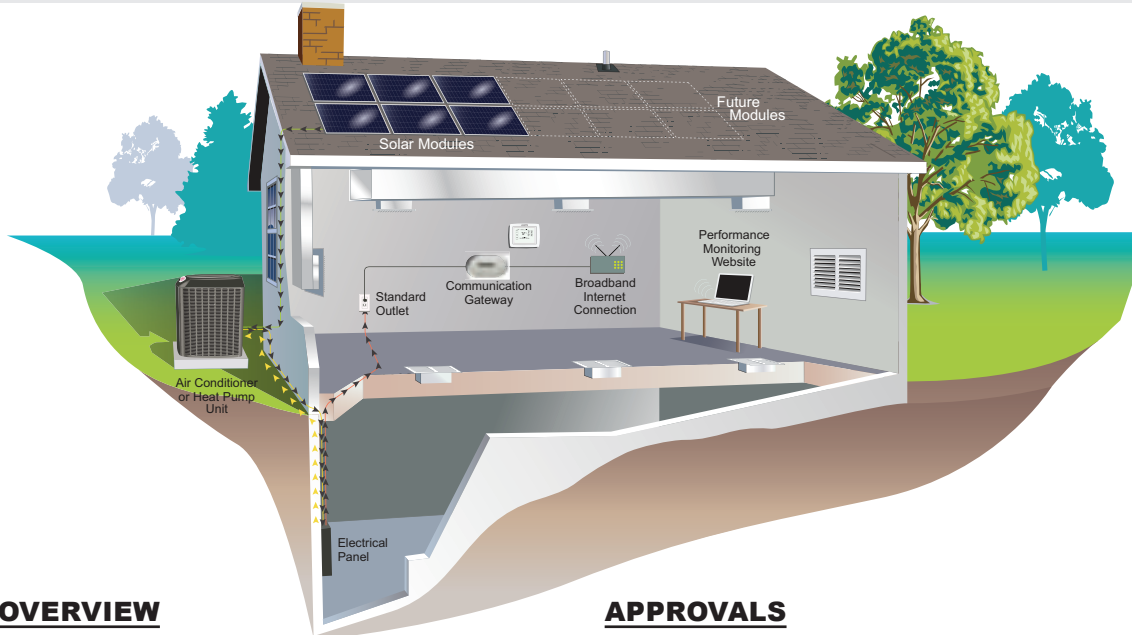
Optional Accessories

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 and prevents buildup on the fan guard.

SUNSOURCE® HOME ENERGY SYSTEM - COMPONENTS



SYSTEM OVERVIEW

All Dave Lennox Signature® Collection air conditioners and heat pumps are equipped at the factory for upgrading to the SunSource® Home Energy System. Units can be upgraded at the time of installation or in the future.

Solar energy is first used to meet cooling/heating demands. When the cooling/heating system is not operating, the system powers lighting, appliances and other electronic devices in the home. And in some locations, any surplus power is sent back to the utility company for a possible credit (check with your local utility company for availability).

The SunSource system consists of the following components:

- Lennox Solar Sub-Panel field installed in a Dave Lennox *Signature*® Collection air conditioner or heat pump unit.
- SolarWorld Pre-Engineered Kits consisting of:
 - SolarWorld Solar Modules (1 to 16 may be used to vary the amount of electricity generated).
 - Enphase Microinverter that converts Direct Current to Alternating Current.
 - Enphase Envoy Communications Gateway for solar power performance monitoring.
 - Roof Mounting Components.

Wiring from the roof mounted solar modules is routed to the outdoor unit. From there power travels to the home electrical service panel using the existing outdoor unit power wiring.

NOTE - Refer to separate Product Specifications Bulletin for the SunSource® Home Energy System for more detailed information. See section Solar - Kits/ Accessories.

Also refer to **SunSource® Home Energy System Applications and Design Guidelines** Manual (Corp. 1312-L2) for complete information on designing, sizing and installing a complete system.

APPROVALS

The SunSource® Home Energy System meets the requirements for federal tax credit eligibility listed under the U.S. Emergency Economic Stabilization Act of 2008, covering 30% of the cost of the solar modules, including installation.

LENNOX® SOLAR SUB-PANEL

The Lennox® Solar Sub-Panel replaces the factory piping panel on the outdoor unit and provides circuit breaker protection and power entry for both HVAC (line) and solar power wiring.

Sub-Panel is equipped with separate circuit breakers for both HVAC (line) voltage and solar power.

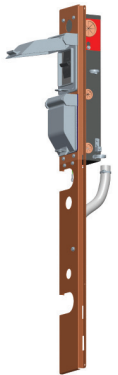
Equipped with pigtail connections for easy field wiring.

Sub-Panel is an ETL listed accessory.

Split design (upper/lower panel) allows installation on different size outdoor units. Sub-Panel is furnished with three separate lower panels. See Outdoor Unit Usage table for correct lower panel size.

NOTE - Sub-Panel is not backwards compatible with older non Solar-Ready Dave Lennox Signature® Collection outdoor units.

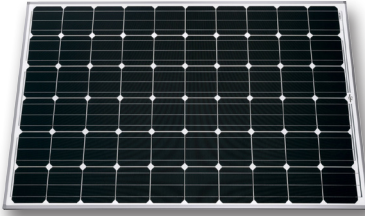
Disconnects for HVAC (line) and solar power wiring are not furnished and must be field provided.



SUNSOURCE® HOME ENERGY SYSTEM - COMPONENTS

SOLAR MODULE

Captures solar energy to convert into AC power through the Enphase Microinverter.



Laminated solar module structure consists of the solar glass, two ethylene vinyl acetate (EVA) sheets, the solar cell matrix and a back sheet.

Thick low-iron safety glass withstands extreme weather conditions and heavy snow loads.

Solar modules are ETL/Intertek listed for the US and Canada to UL Standard 1703 and meet National and Canadian Electrical Code requirements.

Solar Module Frame

Available in black or clear anodized silver frame with cast aluminum corner keys.

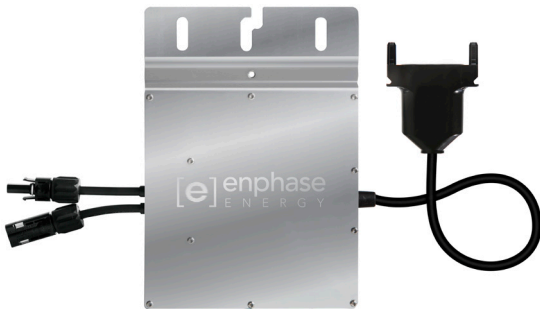
Low profile with extended flange.

Compatible with “top-down” and “bottom-up” mounting methods.

Eight grounding locations (Four corners of the frame and four locations along the length of the module in the extended flange).

Extended cable lengths for easier installation.

ENPHASE MICROINVERTER



Converts Direct Current (DC), captured by a solar module, to Alternating Current (AC) power. Each solar module is paired with one Enphase Microinverter.

Installed beneath each solar module on the roof.

Enphase Microinverters operate independently from each other allowing solar modules that are not shaded or dirty to operate with optimum performance.

Supports low-light and low-voltage operation.

SYSTEM MONITORING

Enphase Envoy Communications Gateway (Communications Booster Furnished)

The Enphase Envoy Communications Gateway monitors microinverter (on solar modules) performance and can be connected to a broadband internet connection to send data to the Enphase Enlighten™ web site for online monitoring by the homeowner. The Enphase Envoy Communications Gateway is not required, but must be used if system performance monitoring is desired.



System monitoring is also available locally with the Enphase Envoy Communications Gateway and a personal computer if no internet connection is available.

Various Event Messages are also available when monitoring the system via a personal computer locally.

Contents - (1) Enphase Envoy Communications Gateway, (1) 6 ft. power cord, (1) 10 ft. Ethernet cable, communications booster.

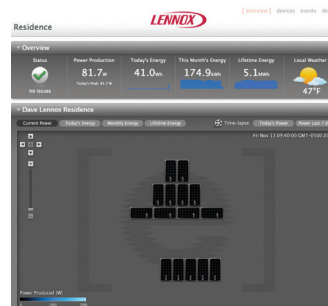
CSA (US/C) listed.

The Enphase Envoy Communications Gateway includes a Communications Booster which may or may not be needed depending upon how far the Envoy is away from the solar modules.

Communications Booster

Ethernet bridge signal booster for the Enphase Envoy Communications Gateway. Booster is only needed if the communications gateway is installed and signal is not strong enough in the installed location. Allows the unit to be plugged into an outlet closer to the distribution panel, yet still plug into the broadband router.

Enphase Enlighten™ Performance Monitoring Website

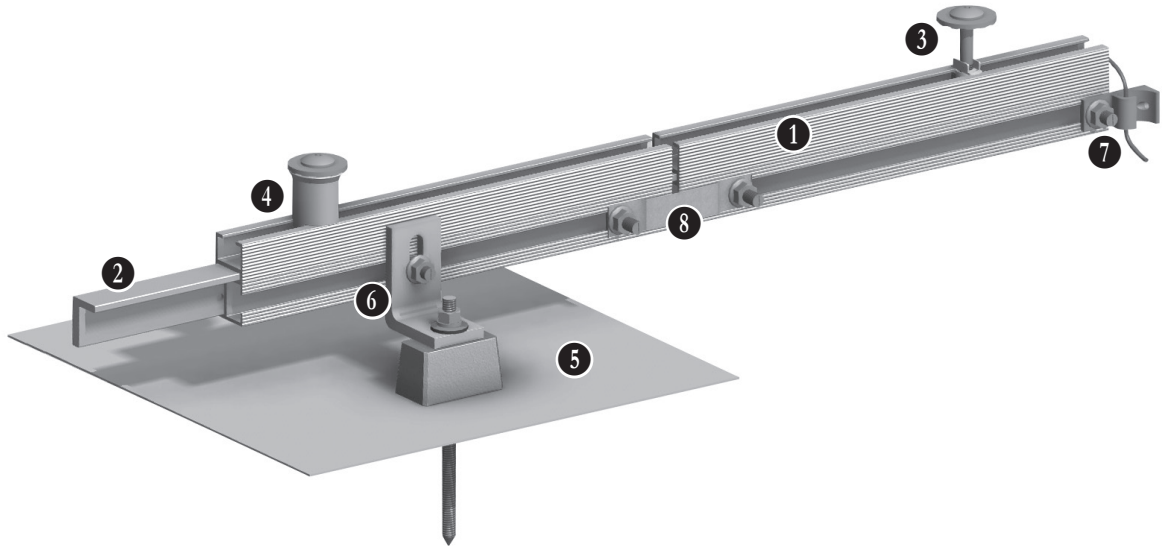


Powered by the Enphase Envoy Communications Gateway, the Enphase Enlighten™ Performance Monitoring website allows the homeowner to keep track of home energy usage and see environmental benefits in real time. Also aids in troubleshooting any solar-related issues.

See demos, view reference installations and other additional information at:

<http://enlighten.enphaseenergy.com>

ROOF MOUNTING COMPONENTS



- 1 **Rails** - Provides a mounting surface for Solar Modules in portrait orientation using associated hardware. Serrations on sides of rails provide a secure and stable mating surface for hardware (L-Brackets, Rail Splice Ground Jumper, Ground Lug). Available in 122 in. (3099 mm) and 162 in. (4115 mm) lengths.
 - 2 **Rail Splice Bar Connector** - For connecting two lengths of rail together. No fasteners required. Pin on center of splice leaves a gap between rails to allow for thermal expansion.
 - 3 **Top Clamp Assembly (Silver or Black)** - M8 T40 bolt with channel nut, bolt positioning retainer and serrated module clamping washer. Inserts into rail slot to secure modules and set spacing in-between each one.
 - 4 **End Clamp Aluminum Spacer (Silver or Black)** - Used with Top Clamp Assembly for securing the end of module mounting row.
 - 5 **Composition Roof Mount/Flashing (Mil Aluminum or Bronze)** - Provides roof mounting surface for mounting system. Size - 12 x 12 in. (305 x 305 mm). Base block, hanger bolt and hardware furnished. Adds 1-1/4 in. (32 mm) height below the L-Bracket.
 - 6 **L-Bracket** - Clear anodized aluminum with serrated mating surface. Fastens rail to Roof Mount/Flashing. Has two 1 in. (25 mm) slots that provide adjustment from 2-1/2 to 3-1/2 in. (64 to 89 mm).
- Wire Clip (not shown)** - Provides wire management for solar array wiring. Fastens to edge of rail. For 10 AWG.
- Ground Lug (not shown)** - Tin plated, WEEB 8.0, lay-in type. Mounts to corner of solar module.
- 7 **Rail-Equipment Ground WEEB 8.0 Lug** - T-bolt slides into rail for secure connection.
 - 8 **Rail Splice Ground Jumper** - WEEB 8.0, pre-assembled with T-bolts. Electrically bonds rails together. Required at each rail splice.

Rooftop Junction Box (not shown) - Soladeck JBox with flashing. Used to transition from the AC-Interconnection cable to wiring/conduit to the outdoor unit. ETL-listed weather-tight enclosure.

Passthru Kit (not shown) - Used with Rooftop Junction Box. One-branch AC passthru kits. Contains all necessary wiring hardware.

ENPHASE ENGAGE CABLE COMPONENTS

Enphase Engage Cable - The Engage Cable (shown with connector) is a 12 AWG cable with pre-installed connectors (portrait aligned) that plug into the Microinverter. Four wire cable (240V single-phase).



Enphase Engage Cable Terminator - Each Engage Cable is terminated at a junction or combiner box. The opposite end of the cable must be terminated with an Engage Cable Terminator cap.



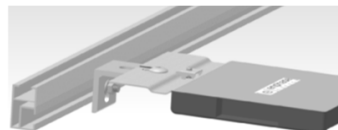
Enphase Engage Disconnect Tool - Specialized tool that disconnects the Engage Cable from a Microinverter or watertight sealing cap.



Enphase Engage Water-tight Sealing Cap - Use when open connections on the Engage Cable are not mated to a Microinverter.



ENPHASE MICROINVERTER MOUNTING



L-Bracket and associated hardware to mount microinverter to rail.

SUNSOURCE® - PRE-ENGINEERED KITS

ORDERING

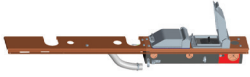
SunSource® Pre-Engineered Kits are available for composition shingle roofs, standing seam roofs, trapezoid metal roofs, flat tile roofs and S tile roofs. See the Sunsource Home Energy System Product Specifications bulletin for complete Pre-Engineered Kits ordering instructions and the Ordering Process Flowchart/Worksheet.

The Installation Package contains the appropriate number of required Rails, Splices, Brackets, Clamps, Clips and assorted hardware (nuts/bolts/washers) for the installation.

NOTE

The Lennox® Solar Sub-Panel for the outdoor unit must be ordered separately. See below for ordering information.

Lennox® Solar Sub-Panel



Order one per outdoor unit. Replaces the outdoor unit piping panel and provides the connection between the solar modules and outdoor unit.

62E02

LENNOX® SOLAR SUB-PANEL - OUTDOOR UNIT USAGE

Outdoor Unit Model No.	Lower Sub-Panel Height - in. (mm)	
	17 (432)	27 (686)
XP25-024-036	X	
XP25-048-060		X

SPECIFICATIONS

General Data		Model No.	XP25-024	XP25-036	XP25-048	XP25-060
		Nominal Tonnage	2	3	4	5
Connections (sweat)	Liquid line (o.d.) - in.		3/8	3/8	3/8	3/8
	Vapor line (o.d.) - in.		7/8	7/8	7/8	1-1/8
Refrigerant		¹ R-410A charge furnished	11 lbs. 5 oz.	11 lbs. 8 oz.	13 lbs. 14 oz.	13 lbs. 0 oz.
Outdoor Coil	Net face area - sq. ft.		20.73	20.73	27.21	27.21
	Outer coil					
	Inner Coil		20.08	20.08	26.36	26.36
	Tube diameter - in.		5/16	5/16	5/16	5/16
	No. of rows		2	2	2	2
		Fins per inch	22	22	22	22
Outdoor Fan	Diameter - in.		26	26	26	26
	No. of blades		3	3	3	3
	Motor hp (W)		1/3	1/3	1/3	1/3
	Cfm - Max. Speed		2580	4130	4040	4240
	Min. Speed		1845	1865	3315	3025
	Rpm - Max. Speed		723	850	805	845
	Min. Speed		515	390	658	600
	Watts - Max. Speed		70	214	172	198
	Min. Speed		32	40	98	76
Shipping Data - lbs. - 1 pkg.			277	277	341	335

ELECTRICAL DATA

Line voltage data - 60hz		208/230V-1ph	208/230V-1ph	208/230V-1ph	208/230V-1ph	
² Maximum overcurrent protection (amps)		25	30	50	50	
³ Minimum circuit ampacity		15.7	20.3	33.7	34.9	
Compressor	Rated load amps		10.3	14.0	24.7	25.7
	Locked rotor amps		18	18	29	29
	Power factor		0.98	0.98	0.99	0.99
Outdoor Coil Fan Motor - Full load amps			2.8	2.8	2.8	2.8

REQUIRED COMPONENTS - ORDER SEPARATELY

iComfort® S30 Thermostat	12U67	•	•	•	•
iComfort Wi-Fi® Thermostat	10F81	•	•	•	•
⁴ Discharge Temperature Sensor	88K38	•	•	•	•

OPTIONAL ACCESSORIES - ORDER SEPARATELY

⁵ Freezestat	3/8 in. tubing	93G35	•	•	•	•
	5/8 in. tubing	50A93	•	•	•	•
⁶ Refrigerant Line Sets	L15-65-30	L15-65-40	•	•	•	
		L15-65-50				
		Field Fabricate				•
⁷ Snow Guard	40 x 36 in.	X8782	•	•	•	•

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

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.

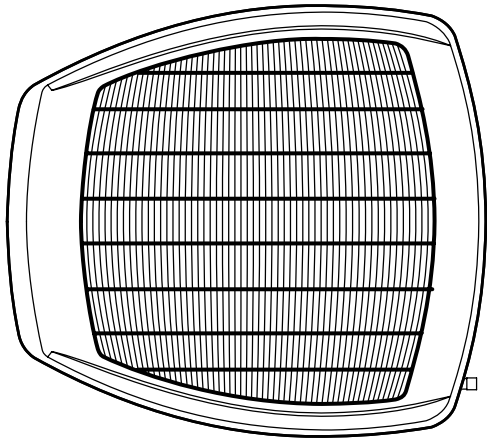
⁴ Used with the iComfort® Communicating Thermostats for optional service diagnostics.

⁵ Freezestat is recommended for Low Ambient operation.

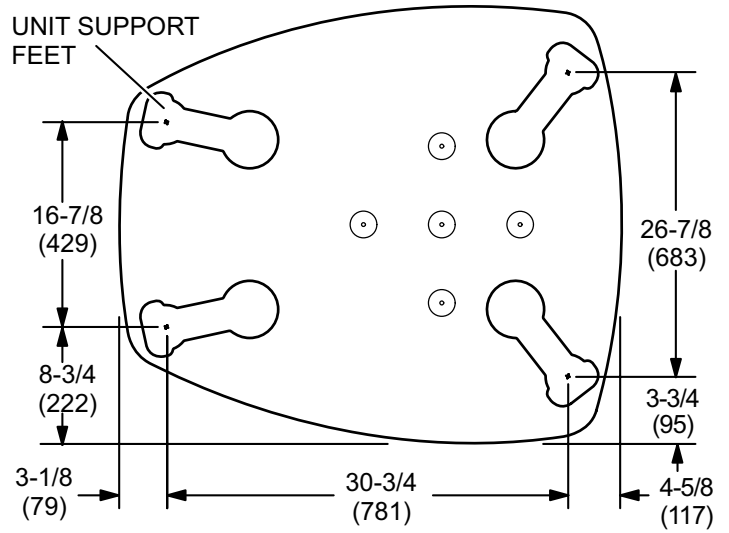
⁶ Refer to the Installation Instructions or Service Literature for Line Set Requirements and Refrigerant Piping Guidelines.

⁷ Adds 11-1/2 inches (292 mm) to unit height,

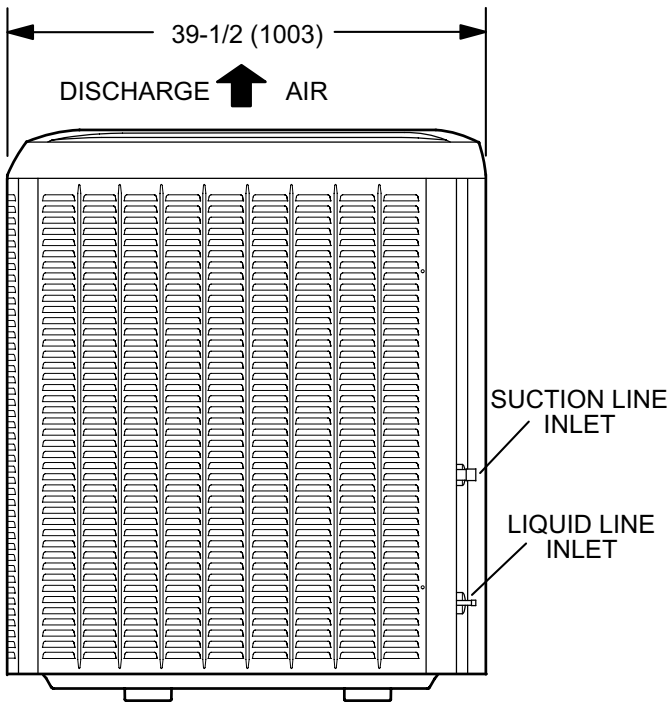
DIMENSIONS - INCHES (MM)



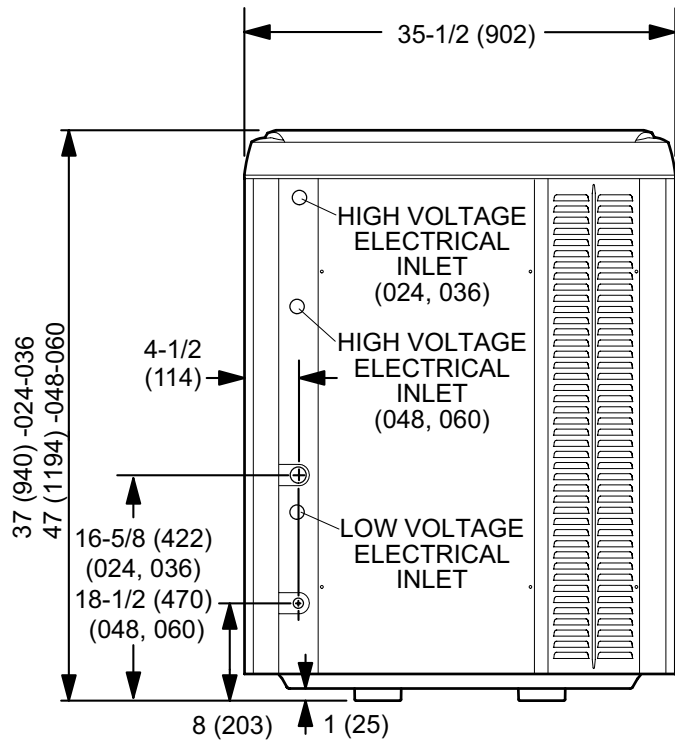
TOP VIEW



**TOP VIEW BASE SECTION
(Large Base)**



SIDE VIEW



ACCESS VIEW

SOUND DATA

Unit Model	Operation	Octave Band Linear Sound Power Levels dB, re 10 ⁻¹² Watts - Center Frequency - Hz								1 Sound Rating Number (SRN) (dBA)
		63	125	250	500	1000	2000	4000	8000	
024	Min.	56.6	49.0	46.3	47.6	45.1	40.3	38.3	34.8	58
	Max.	56.9	52.2	54.6	55.3	51.8	49.6	45.9	39.0	68
036	Min.	55.8	47.5	46.1	42.8	42.1	35.8	36.5	32.6	58
	Max.	59.2	59.7	63.5	63.0	59.2	54.4	49.7	42.7	73
048	Min.	56.0	50.9	52.8	55.5	50.9	46.6	40.6	39.4	64
	Max.	60.9	58.0	59.0	59.2	57.1	53.3	50.2	44.0	74
060	Min.	57.2	51.7	51.6	53.9	49.7	44.1	38.5	38.2	64
	Max.	59.2	56.6	60.0	62.1	57.7	53.8	48.4	42.6	74

¹ Sound Rating Number according to ANSI/AHRI Standard 270-2008. "SRN" is the overall A-Weighted Sound Power Level, (LWA), dB (100 Hz to 10,000 Hz).

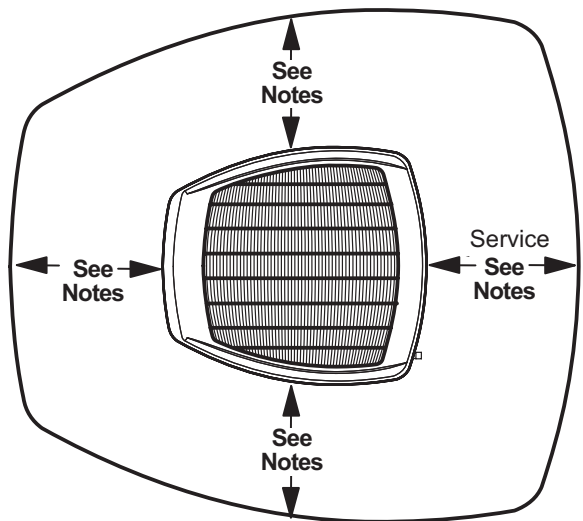
INSTALLATION CLEARANCES - INCHES (MM)

NOTES -

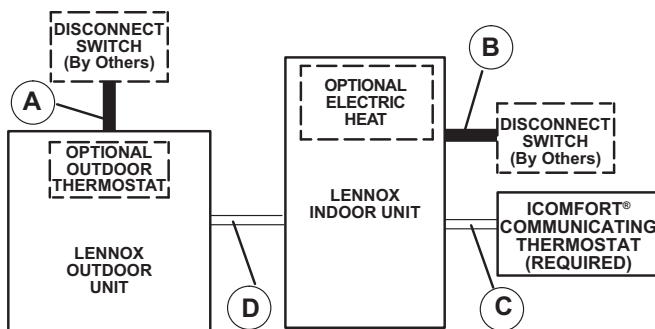
One of these three sides must be 36 in. (914 mm).
 One of the two remaining sides may be 12 in. (305 mm).
 The remaining side may be 6 in. (152 mm).

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 (see Electrical Data)
- B - Two or Three Wire Power (size to heater capacity)
- C - Four Wire Low Voltage RSBus (not furnished) 18 ga. minimum
- D - Four Wire Low Voltage RSBus (not furnished) 18 ga. minimum

NOTE - Field Wiring Not Furnished

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

CHECK/EXPANSION VALVE USAGE

Use this table for C33, CH23, CH33 and CR33 Field Installed TXV Match-Ups.

Model No.	Order No.
XP25-024	12J18
XP25-036	12J19
XP25-048	12J20
XP25-060	12J20

CX34 upflow coils and all Lennox air handlers are shipped with a factory installed check/expansion valve. In most cases, no change out of the valve is needed.

C33 and CH33 coils - Replace the factory installed orifice with the expansion valve listed.

CR33 and CH23 - Use the expansion valve listed.

MOST POPULAR MATCHES

Outdoor Unit Model No.	Indoor Unit Model No
XP25-024	CBX40UHV-024
XP25-036	CBX40UHV-036
XP25-048	CBX40UHV-060
XP25-060	CBX40UHV-060

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.

AHRI SYSTEM MATCHES

Model No.	Cooling Capacity	SEER	EER	Heat Capacity		Heat COP		HSPF (IV)	Coil or Air Handler	Furnace	AHRI Reference
				High	Low	High	Low				
XP25-024-230	22600	22	15	20800	13400	3.38	2.32	9.7	C33-31A	SL280UH070V36A	5947727
XP25-024-230	22400	22.5	15	20800	13300	3.34	2.3	9.6	C33-31B	EL296UH045XV36B	5947245
XP25-024-230	22400	22.5	15	20800	13300	3.34	2.3	9.7	C33-31B	EL296UH070XV36B	5947246
XP25-024-230	22600	22.5	15	20800	13200	3.38	2.3	9.7	C33-31B	SL280UH090V36B	5947247
XP25-024-230	22400	22.5	15	20800	13300	3.34	2.3	9.7	C33-31B	SLP98UH070XV36B	5947248
XP25-024-230	23000	22	15.5	21400	13800	3.12	2.12	9.2	C33-38A	SL280UH070V36A	5947249
XP25-024-230	23000	22.5	15.5	21400	13800	3.1	2.12	9.2	C33-38B	EL296UH045XV36B	5947250
XP25-024-230	23000	23	15.5	21400	13800	3.1	2.12	9.2	C33-38B	EL296UH070XV36B	5947251
XP25-024-230	23000	23	15.5	21200	13700	3.12	2.12	9.2	C33-38B	SL280UH090V48B	5947252
XP25-024-230	23000	23	15.5	21400	13800	3.1	2.12	9.2	C33-38B	SLP98UH070XV36B	5947253
XP25-024-230	22800	23	15.5	21600	13900	3.38	2.32	9.6	C33-48B	EL296UH045XV36B	5947254
XP25-024-230	22800	23.5	15.5	21600	13900	3.38	2.32	9.6	C33-48B	EL296UH070XV36B	5947255
XP25-024-230	22800	23.5	16	21400	13900	3.4	2.36	9.7	C33-48B	SL280UH090V36B	5947256
XP25-024-230	22800	23.5	15.5	21600	13900	3.38	2.32	9.6	C33-48B	SLP98UH070XV36B	5947257
XP25-024-230	22400	20.5	15	21400	13800	3.44	2.66	9.2	C35-36B	EL296UH045XV36B	10092279
XP25-024-230	22400	21	15	21400	13800	3.44	2.68	9.2	C35-36B	EL296UH070XV36B	10092280
XP25-024-230	22600	21	15.5	21400	13700	3.5	2.72	9.2	C35-36B	SL280UH090V36B	10092278
XP25-024-230	22400	21	15	21400	13800	3.44	2.68	9.2	C35-36B	SLP98DF070XV36B	10092281
XP25-024-230	22600	22	15	20800	13400	3.38	2.32	9.7	C37-31A	SL280UH070V36A	10259672
XP25-024-230	22400	22.5	15	20800	13300	3.34	2.3	9.6	C37-31B	EL296UH045XV36B	10259651
XP25-024-230	22400	22.5	15	20800	13300	3.34	2.3	9.7	C37-31B	EL296UH070XV36B	10259652
XP25-024-230	22600	22.5	15	20800	13200	3.38	2.3	9.7	C37-31B	SL280UH090V36B	10259653
XP25-024-230	22400	22.5	15	20800	13300	3.34	2.3	9.7	C37-31B	SLP98UH070XV36B	10259654
XP25-024-230	23000	22	15.5	21400	13800	3.12	2.12	9.2	C37-38A	SL280UH070V36A	10259655
XP25-024-230	23000	22.5	15.5	21400	13800	3.1	2.12	9.2	C37-38B	EL296UH045XV36B	10259656
XP25-024-230	23000	23	15.5	21400	13800	3.1	2.12	9.2	C37-38B	EL296UH070XV36B	10259657
XP25-024-230	23000	23	15.5	21200	13700	3.12	2.12	9.2	C37-38B	SL280UH090V48B	10259658
XP25-024-230	23000	23	15.5	21400	13800	3.1	2.12	9.2	C37-38B	SLP98UH070XV36B	10259659
XP25-024-230	22800	23	15.5	21600	13900	3.38	2.32	9.6	C37-48B	EL296UH045XV36B	10259660
XP25-024-230	22800	23.5	15.5	21600	13900	3.38	2.32	9.6	C37-48B	EL296UH070XV36B	10259661
XP25-024-230	22800	23.5	16	21400	13900	3.4	2.36	9.7	C37-48B	SL280UH090V36B	10259662
XP25-024-230	22800	23.5	15.5	21600	13900	3.38	2.32	9.6	C37-48B	SLP98UH070XV36B	10259663
XP25-024-230	23000	22	15.5	21400	13500	3.5	2.34	10	CBX32MV-036		5947726
XP25-024-230	22800	22	15.5	21600	13600	3.52	2.34	10	CBX40UHV-024		5947243
XP25-024-230	22800	22	15.5	21600	13600	3.5	2.34	10	CBX40UHV-030		5947244
XP25-024-230	22400	23.5	15.5	22200	14600	3.64	2.58	10.2	CH33-31B	EL296UH045XV36B	5947275
XP25-024-230	22400	23.5	16	22200	14600	3.66	2.6	10.2	CH33-31B	EL296UH070XV36B	5947276
XP25-024-230	22400	23	16	22200	14600	3.66	2.6	10.2	CH33-31B	SL280UH070V36A	5947277
XP25-024-230	22400	23.5	16	22200	14500	3.68	2.6	10.2	CH33-31B	SL280UH090V36B	5947278
XP25-024-230	22400	23.5	16	22200	14600	3.66	2.6	10.2	CH33-31B	SLP98UH070XV36B	5947279
XP25-024-230	22200	22.5	15.5	22200	14600	3.58	2.54	10	CH33-42B	EL296UH045XV36B	5947280
XP25-024-230	22200	22.5	15.5	22200	14600	3.62	2.56	10.2	CH33-42B	EL296UH070XV36B	5947281
XP25-024-230	22200	22	15.5	22200	14600	3.62	2.56	10.2	CH33-42B	SL280UH070V36A	5947282
XP25-024-230	22200	23	15.5	22000	14600	3.62	2.58	10.2	CH33-42B	SL280UH090V36B	5947283
XP25-024-230	22200	22.5	15.5	22200	14600	3.62	2.56	10.2	CH33-42B	SLP98UH070XV36B	5947284
XP25-024-230	22200	21	15	21200	14600	3.66	2.64	9	CH35-42B	EL296UH045XV36B	10092239
XP25-024-230	22200	21	15	21200	14600	3.66	2.64	9	CH35-42B	EL296UH070XV36B	10092240

NOTES:

Ratings are AHRI certified to AHRI Standard 210/240 (with 25 ft. of connecting refrigerant lines);

- Cooling Ratings - 95°F outdoor air temperature and 80°F db/67°F wb entering indoor coil air.
- High Temperature Heating Ratings - 47°F db/43°F wb outdoor air temperature and 70°F db entering indoor coil air.
- Low Temperature Heating Ratings - 17°F db/15°F wb outdoor air temperature and 70°F db entering indoor coil air.

All ratings include the use of a blower time delay relay (TDR). All Lennox variable-speed Furnaces and Air Handlers have time delay capabilities. Other Furnaces and Air Handlers may require an optional time delay relay (**58M81**) for field installation. See furnace or air handler specifications to determine if relay is needed.

Also see TXV Substitution Table at the beginning of the Heat Pump AHRI System Matches section.

When used with gas furnaces, a dual-fuel control, a control system with dual-fuel capabilities (LZP-2 or LZP-4), or a thermostat with dual-fuel capabilities must be used (order separately).

To convert HSPF from Region IV to Region V - Divide by 1.15.

AHRI SYSTEM MATCHES

Model No.	Cooling Capacity	SEER	EER	Heat Capacity		Heat COP		HSPF (IV)	Coil or Air Handler	Furnace	AHRI Reference
				High	Low	High	Low				
XP25-024-230	22200	21	15	21200	14600	3.72	2.66	9	CH35-42B	SL280UH090V36B	10092238
XP25-024-230	22200	21	15	21200	14600	3.68	2.64	9	CH35-42B	SLP98UH070XV36B	10092241
XP25-024-230	22800	21	15.5	21800	14200	3.64	2.7	9.2	CH35-42C	EL296UH090XV36C	10092242
XP25-024-230	22800	21	15.5	21800	14200	3.64	2.7	9.2	CH35-42C	SLP98UH090XV36C	10092243
XP25-024-230	23000	22.5	15.5	23600	15000	3.5	2.4	8.5	CR33-48B	EL296DF045XV36B	7505748
XP25-024-230	23000	22.5	16	23600	15000	3.54	2.42	8.5	CR33-48B	SL280DF070V36A	5947272
XP25-024-230	23000	23	16	23600	15000	3.54	2.42	8.5	CR33-48B	SLP98DF070XV36B	5947273
XP25-024-230	23000	23.5	16	23600	14900	3.58	2.44	8.7	CR33-48B	SLP98DF090XV36C	5947274
XP25-024-230	22600	22	15	20800	13400	3.38	2.32	9.7	CX34-31A	SL280UH070V36A	5947728
XP25-024-230	22400	22.5	15	20800	13300	3.34	2.3	9.6	CX34-31B	EL296UH045XV36B	5947258
XP25-024-230	22400	22.5	15	20800	13300	3.34	2.3	9.7	CX34-31B	EL296UH070XV36B	5947259
XP25-024-230	22600	22.5	15	20800	13200	3.38	2.3	9.7	CX34-31B	SL280UH090V36B	5947260
XP25-024-230	22400	22.5	15	20800	13300	3.34	2.3	9.7	CX34-31B	SLP98UH070XV36B	5947261
XP25-024-230	23000	22.5	15.5	21400	13800	3.1	2.12	9.2	CX34-38B	EL296UH045XV36B	5947263
XP25-024-230	23000	23	15.5	21400	13800	3.1	2.12	9.2	CX34-38B	EL296UH070XV36B	5947264
XP25-024-230	23000	23	15.5	21200	13700	3.12	2.12	9.2	CX34-38B	SL280UH090V36B	5947265
XP25-024-230	23000	23	15.5	21400	13800	3.1	2.12	9.2	CX34-38B	SLP98UH070XV36B	5947266
XP25-024-230	22400	20.5	15	21400	13800	3.44	2.66	9.2	CX35-36B	EL296UH045XV36B	10092245
XP25-024-230	22400	21	15	21400	13800	3.44	2.68	9.2	CX35-36B	EL296UH070XV36B	10092246
XP25-024-230	22600	21	15.5	21400	13700	3.5	2.72	9.2	CX35-36B	SL280UH090V36B	10092244
XP25-024-230	22400	21	15	21400	13800	3.44	2.68	9.2	CX35-36B	SLP98UH070XV36B	10444469
XP25-024-230	22600	22	15	20800	13400	3.38	2.32	9.7	CX38-31A	SL280UH070V36A	10259673
XP25-024-230	22400	22.5	15	20800	13300	3.34	2.3	9.6	CX38-31B	EL296UH045XV36B	10259664
XP25-024-230	22400	22.5	15	20800	13300	3.34	2.3	9.7	CX38-31B	EL296UH070XV36B	10259665
XP25-024-230	22600	22.5	15	20800	13200	3.38	2.3	9.7	CX38-31B	SL280UH090V36B	10259666
XP25-024-230	22400	22.5	15	20800	13300	3.34	2.3	9.7	CX38-31B	SLP98UH070XV36B	10259667
XP25-024-230	23000	22.5	15.5	21400	13800	3.1	2.12	9.2	CX38-38B	EL296UH045XV36B	10259668
XP25-024-230	23000	23	15.5	21400	13800	3.1	2.12	9.2	CX38-38B	EL296UH070XV36B	10259669
XP25-024-230	23000	23	15.5	21200	13700	3.12	2.12	9.2	CX38-38B	SL280UH090V36B	10259670
XP25-024-230	23000	23	15.5	21400	13800	3.1	2.12	9.2	CX38-38B	SLP98UH070XV36B	10259671
XP25-036-230	35000	21	13	31600	20000	2.96	1.78	8.7	C33-38A	SL280UH070V36A	5947681
XP25-036-230	35000	21	13	31600	20000	2.94	1.78	8.7	C33-38B	EL296UH045XV36B	5947682
XP25-036-230	35000	21.5	13	31600	20000	2.96	1.78	8.7	C33-38B	EL296UH070XV36B	5947683
XP25-036-230	35200	21.5	13.5	31400	19800	3.02	1.8	8.7	C33-38B	SL280UH090V36B	5947684
XP25-036-230	35000	21.5	13	31600	20000	2.96	1.8	8.7	C33-38B	SLP98UH070XV36B	5947685
XP25-036-230	35200	20	13	31200	20800	2.96	2.08	9.2	C33-43B	EL296UH045XV36B	5947686
XP25-036-230	35400	20	13	31200	20800	2.98	2.1	9.2	C33-43B	EL296UH070XV36B	5947687
XP25-036-230	35600	20.5	13.5	31000	20400	3.04	2.1	9.2	C33-43B	SL280UH090V36B	5947688
XP25-036-230	35400	20	13	31200	20800	2.98	2.1	9.2	C33-43B	SLP98UH070XV36B	5947689
XP25-036-230	35400	20.5	13.5	31000	20600	3.02	2.12	9.2	C33-43C	EL296UH090XV36C	5947690
XP25-036-230	35400	20.5	13.5	31000	20600	3.02	2.12	9.2	C33-43C	SLP98UH090XV36C	5947691
XP25-036-230	34600	21	13	31800	20600	2.8	1.8	8.5	C33-48B	EL296UH045XV36B	5947692
XP25-036-230	34600	21	13	31600	20400	2.8	1.8	8.5	C33-48B	EL296UH070XV36B	5947693
XP25-036-230	34800	21.5	13.5	31400	20200	2.84	1.82	8.7	C33-48B	SL280UH090V36B	5947694
XP25-036-230	34600	21	13	31600	20400	2.8	1.8	8.5	C33-48B	SLP98UH070XV36B	5947695
XP25-036-230	34800	21	13	31600	20200	2.84	1.82	8.5	C33-48C	EL296UH090XV36C	5947696
XP25-036-230	34800	21	13	31600	20200	2.84	1.82	8.5	C33-48C	SLP98UH090XV36C	5947697

NOTES:

Ratings are AHRI certified to AHRI Standard 210/240 (with 25 ft. of connecting refrigerant lines);

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- High Temperature Heating Ratings - 47°F db/43°F wb outdoor air temperature and 70°F db entering indoor coil air.

- Low Temperature Heating Ratings - 17°F db/15°F wb outdoor air temperature and 70°F db entering indoor coil air.

All ratings include the use of a blower time delay relay (TDR). All Lennox variable-speed Furnaces and Air Handlers have time delay capabilities. Other Furnaces and Air Handlers may require an optional time delay relay (**58M81**) for field installation. See furnace or air handler specifications to determine if relay is needed.

Also see TXV Substitution Table at the beginning of the Heat Pump AHRI System Matches section.

When used with gas furnaces, a dual-fuel control, a control system with dual-fuel capabilities (LZP-2 or LZP-4), or a thermostat with dual-fuel capabilities must be used (order separately).

To convert HSPF from Region IV to Region V - Divide by 1.15.

AHRI SYSTEM MATCHES

Model No.	Cooling Capacity	SEER	EER	Heat Capacity		Heat COP		HSPF (IV)	Coil or Air Handler	Furnace	AHRI Reference
				High	Low	High	Low				
XP25-036-230	35200	20	13	31000	20400	3	2.08	9.2	C33-50/60C	EL296UH090XV36C	5947698
XP25-036-230	35200	20	13	31000	20400	3	2.08	9.2	C33-50/60C	SLP98UH090XV36C	5947699
XP25-036-230	34600	20	13	33600	20400	3.1	2.08	8.5	C35-50/60C	EL296UH090XV36C	10092282
XP25-036-230	34600	20	13	33600	20400	3.1	2.08	8.5	C35-50/60C	SLP98UH090XV36C	10092283
XP25-036-230	35000	21	13	31600	20000	2.96	1.78	8.7	C37-38A	SL280UH070V36A	10084825
XP25-036-230	35000	21	13	31600	20000	2.94	1.78	8.7	C37-38B	EL296UH045XV36B	10084810
XP25-036-230	35000	21.5	13	31600	20000	2.96	1.78	8.7	C37-38B	EL296UH070XV36B	10084831
XP25-036-230	35200	21.5	13.5	31400	19800	3.02	1.8	8.7	C37-38B	SL280UH090V36B	10084828
XP25-036-230	35000	21.5	13	31600	20000	2.96	1.8	8.7	C37-38B	SLP98UH070XV36B	10084816
XP25-036-230	35200	20	13	31200	20800	2.96	2.08	9.2	C37-43B	EL296UH045XV36B	10084819
XP25-036-230	35400	20	13	31200	20800	2.98	2.1	9.2	C37-43B	EL296UH070XV36B	10084813
XP25-036-230	35600	20.5	13.5	31000	20400	3.04	2.1	9.2	C37-43B	SL280UH090V36B	10084822
XP25-036-230	35400	20	13	31200	20800	2.98	2.1	9.2	C37-43B	SLP98UH070XV36B	10084826
XP25-036-230	35400	20.5	13.5	31000	20600	3.02	2.12	9.2	C37-43C	EL296UH090XV36C	10084811
XP25-036-230	35400	20.5	13.5	31000	20600	3.02	2.12	9.2	C37-43C	SLP98UH090XV36C	10084832
XP25-036-230	34600	21	13	31800	20600	2.8	1.8	8.5	C37-48B	EL296UH045XV36B	10084829
XP25-036-230	34600	21	13	31600	20400	2.8	1.8	8.5	C37-48B	EL296UH070XV36B	10084817
XP25-036-230	34800	21.5	13.5	31400	20200	2.84	1.82	8.7	C37-48B	SL280UH090V36B	10084820
XP25-036-230	34600	21	13	31600	20400	2.8	1.8	8.5	C37-48B	SLP98UH070XV36B	10084814
XP25-036-230	34800	21	13	31600	20200	2.84	1.82	8.5	C37-48C	EL296UH090XV36C	10084823
XP25-036-230	34800	21	13	31600	20200	2.84	1.82	8.5	C37-48C	SLP98UH090XV36C	10084827
XP25-036-230	35200	20	13	31000	20400	3	2.08	9.2	C37-50/60C	EL296UH090XV36C	10084812
XP25-036-230	35200	20	13	31000	20400	3	2.08	9.2	C37-50/60C	SLP98UH090XV36C	10084833
XP25-036-230	34400	21.5	13	32200	21000	3.28	2.26	10	CBX32MV-036		5947680
XP25-036-230	34400	21.5	13.5	32000	21000	3.28	2.28	10	CBX40UHV-036		5947679
XP25-036-230	35200	21	13.5	31000	20600	3	2.1	9.2	CH33-43C	EL296UH090XV36C	5947720
XP25-036-230	35200	20	13	31000	20600	2.98	2.08	9.2	CH33-43C	SLP98UH070XV36B	6810978
XP25-036-230	35200	21	13.5	31000	20600	3	2.1	9.2	CH33-43C	SLP98UH090XV36C	5947721
XP25-036-230	34600	20	12.5	31200	20800	2.96	2.06	9.2	CH33-44/48B	EL296UH045XV36B	5947722
XP25-036-230	34600	20	12.5	31200	20800	2.98	2.08	9.2	CH33-44/48B	EL296UH070XV36B	5947723
XP25-036-230	34800	20.5	13	31000	20600	3.04	2.12	9.2	CH33-44/48B	SL280UH090V36B	5947724
XP25-036-230	34800	20	13	31200	20600	3.02	2.1	9.2	CH33-44/48B	SLP98UH070XV36B	5947725
XP25-036-230	35200	20	12.5	33600	19800	3.16	2.14	9.5	CH35-42B	EL296UH045XV36B	10092249
XP25-036-230	35200	20	12.5	33600	19800	3.16	2.16	9.5	CH35-42B	EL296UH070XV36B	10092250
XP25-036-230	35400	20	13	33400	19400	3.22	2.18	9.5	CH35-42B	SL280UH090V36B	10092248
XP25-036-230	35200	20	12.5	33600	19600	3.16	2.14	9.5	CH35-42B	SLP98UH070XV36B	10092251
XP25-036-230	35200	20.5	13.5	30200	19900	3.5	2.38	9.5	CR33-50/60	SL280DF090V48B	7176690
XP25-036-230	35000	20.5	13	30200	20000	3.44	2.36	9.5	CR33-50/60	SLP98DF070XV36B	7133800
XP25-036-230	35200	21	13.5	30200	20000	3.48	2.38	10	CR33-50/60	SLP98DF090XV36C	5947719
XP25-036-230	35000	21	13	31600	20000	2.96	1.78	8.7	CX34-38A	SL280UH070V36A	5947700
XP25-036-230	35000	21	13	31600	20000	2.94	1.78	8.7	CX34-38B	EL296UH045XV36B	5947701
XP25-036-230	35000	21.5	13	31600	20000	2.96	1.78	8.7	CX34-38B	EL296UH070XV36B	5947702
XP25-036-230	35200	21.5	13.5	31400	19800	3.02	1.8	8.7	CX34-38B	SL280UH090V36B	5947703
XP25-036-230	35000	21.5	13	31600	20000	2.96	1.8	8.7	CX34-38B	SLP98UH070XV36B	5947704
XP25-036-230	35600	20.5	13.5	31000	20400	3.04	2.1	9.2	CX34-43B	SL280UH090V36B	5947707
XP25-036-230	35400	20	13	31200	20800	2.98	2.1	9.2	CX34-43B	SLP98UH070XV36B	9921767
XP25-036-230	34800	21	13	31600	20200	2.84	1.82	8.5	CX34-43C	SLP98UH090XV36C	8935136

NOTES:

Ratings are AHRI certified to AHRI Standard 210/240 (with 25 ft. of connecting refrigerant lines);

- Cooling Ratings - 95°F outdoor air temperature and 80°F db/67°F wb entering indoor coil air.
- High Temperature Heating Ratings - 47°F db/43°F wb outdoor air temperature and 70°F db entering indoor coil air.
- Low Temperature Heating Ratings - 17°F db/15°F wb outdoor air temperature and 70°F db entering indoor coil air.

All ratings include the use of a blower time delay relay (TDR). All Lennox variable-speed Furnaces and Air Handlers have time delay capabilities. Other Furnaces and Air Handlers may require an optional time delay relay (**58M81**) for field installation. See furnace or air handler specifications to determine if relay is needed.

Also see TXV Substitution Table at the beginning of the Heat Pump AHRI System Matches section.

When used with gas furnaces, a dual-fuel control, a control system with dual-fuel capabilities (LZP-2 or LZP-4), or a thermostat with dual-fuel capabilities must be used (order separately).

To convert HSPF from Region IV to Region V - Divide by 1.15.

AHRI SYSTEM MATCHES

Model No.	Cooling Capacity	SEER	EER	Heat Capacity		Heat COP		HSPF (IV)	Coil or Air Handler	Furnace	AHRI Reference
				High	Low	High	Low				
XP25-036-230	34800	21.5	13.5	31400	20200	2.84	1.82	8.7	CX34-44/48B	SL280UH090V36B	9104552
XP25-036-230	34800	21	13	31600	20200	2.84	1.82	8.5	CX34-44/48C	SLP98UH090XV36C	8103443
XP25-036-230	34600	20	13	33600	20400	3.1	2.08	8.5	CX35-50/60C	EL296UH090XV36C	10092252
XP25-036-230	34600	20	13	33600	20400	3.1	2.08	8.5	CX35-50/60C	SLP98UH090XV36C	10092253
XP25-036-230	35000	21	13	31600	20000	2.96	1.78	8.7	CX38-38A	SL280UH070V36A	10084830
XP25-036-230	35000	21	13	31600	20000	2.94	1.78	8.7	CX38-38B	EL296UH045XV36B	10084818
XP25-036-230	35000	21.5	13	31600	20000	2.96	1.78	8.7	CX38-38B	EL296UH070XV36B	10084821
XP25-036-230	35200	21.5	13.5	31400	19800	3.02	1.8	8.7	CX38-38B	SL280UH090V36B	10084815
XP25-036-230	35000	21.5	13	31600	20000	2.96	1.8	8.7	CX38-38B	SLP98UH070XV36B	10084824
XP25-036-230	35600	20.5	13.5	31000	20400	3.04	2.1	9.2	CX38-43B	SL280UH090V36B	10084834
XP25-036-230	35400	20	13	31200	20800	2.98	2.1	9.2	CX38-43B	SLP98UH070XV36B	10086052
XP25-036-230	34800	21	13	31600	20200	2.84	1.82	8.5	CX38-43C	SLP98UH090XV36C	10085642
XP25-036-230	34800	21.5	13.5	31400	20200	2.84	1.82	8.7	CX38-44/48B	SL280UH090V36B	10085644
XP25-036-230	34800	21	13	31600	20200	2.84	1.82	8.5	CX38-44/48C	SLP98UH090XV36C	10085012
XP25-048-230	47500	20	12.5	45000	29600	3.18	2.3	9.2	C33-49C	EL296UH090XV48C	5947733
XP25-048-230	47500	20	12.5	45000	29600	3.2	2.32	9.2	C33-49C	EL296UH090XV60C	5947734
XP25-048-230	47500	20	12.5	45000	29600	3.2	2.32	9.2	C33-49C	EL296UH110XV48C	5947735
XP25-048-230	47500	20	12.5	45000	29600	3.2	2.32	9.2	C33-49C	EL296UH110XV60C	5947736
XP25-048-230	47500	20	13	45000	29400	3.22	2.32	9.2	C33-49C	SL280UH090V60C	5947737
XP25-048-230	47500	19.5	12.5	45000	29600	3.2	2.32	9.2	C33-49C	SL280UH110V60C	5947738
XP25-048-230	47500	20	12.5	45000	29600	3.2	2.3	9.2	C33-49C	SLP98UH090XV48C	5947739
XP25-048-230	47500	20	12.5	45000	29600	3.2	2.32	9.2	C33-49C	SLP98UH090XV60C	5947740
XP25-048-230	47500	20	12.5	45000	29600	3.2	2.32	9.2	C33-49C	SLP98UH110XV60C	5947741
XP25-048-230	49000	20	13	46000	30000	2.94	2.24	9.5	C33-62C	EL296UH090XV48C	5947742
XP25-048-230	49000	20	13	46000	30000	2.96	2.24	9.5	C33-62C	EL296UH090XV60C	5947743
XP25-048-230	49000	20	13	46000	30000	2.96	2.24	9.5	C33-62C	EL296UH110XV48C	5947744
XP25-048-230	49000	20	13	46000	30000	2.96	2.24	9.5	C33-62C	EL296UH110XV60C	5947745
XP25-048-230	49000	20	13	46000	29800	2.98	2.24	9.6	C33-62C	SL280UH090V60C	5947746
XP25-048-230	49000	19.5	13	46000	30000	2.96	2.24	9.5	C33-62C	SL280UH110V60C	5947747
XP25-048-230	49000	20	13	46000	30000	2.94	2.24	9.5	C33-62C	SLP98UH090XV48C	5947748
XP25-048-230	49000	20	13	46000	30000	2.96	2.24	9.5	C33-62C	SLP98UH090XV60C	5947749
XP25-048-230	49000	20	13	46000	30000	2.96	2.24	9.5	C33-62C	SLP98UH110XV60C	5947750
XP25-048-230	47500	19.5	13	45000	28600	3.38	2.32	9.7	C33-62D	EL296UH135XV60D	5947751
XP25-048-230	47500	19.5	13	45000	28400	3.4	2.32	9.7	C33-62D	SL280UH135V60D	5947752
XP25-048-230	47500	19.5	13	45000	28600	3.38	2.32	9.7	C33-62D	SLP98UH135XV60D	5947753
XP25-048-230	46000	19	12	46000	28000	3.12	1.88	8.2	C35-60C	EL296UH090XV48C	10092288
XP25-048-230	46000	19	12	46000	28000	3.14	1.88	8.2	C35-60C	EL296UH090XV60C	10092289
XP25-048-230	46000	19	12	46000	28000	3.12	1.88	8.2	C35-60C	EL296UH110XV48C	10092290
XP25-048-230	46000	19	12	46000	28000	3.12	1.88	8.2	C35-60C	EL296UH110XV60C	10092291
XP25-048-230	46500	19	12.5	46000	27800	3.16	1.88	8.2	C35-60C	SL280UH090V60C	10092284
XP25-048-230	46500	19	12.5	46000	27800	3.16	1.88	8.2	C35-60C	SL280UH090XV60C	10092285
XP25-048-230	46000	19	12	46000	28000	3.14	1.88	8.2	C35-60C	SL280UH110V60C	10092286
XP25-048-230	46000	19	12	46000	28000	3.14	1.88	8.2	C35-60C	SL280UH110XV60C	10092287
XP25-048-230	46000	19	12	46000	28000	3.12	1.88	8.2	C35-60C	SLP98UH090XV48C	10092292
XP25-048-230	46000	19	12	46000	28000	3.14	1.88	8.2	C35-60C	SLP98UH090XV60C	10092293
XP25-048-230	46000	19	12	46000	28000	3.12	1.88	8.2	C35-60C	SLP98UH110XV60C	10092294
XP25-048-230	47500	20	12.5	45000	29600	3.18	2.3	9.2	C37-49C	EL296UH090XV48C	10084849

NOTES:

Ratings are AHRI certified to AHRI Standard 210/240 (with 25 ft. of connecting refrigerant lines);

- Cooling Ratings - 95°F outdoor air temperature and 80°F db/67°F wb entering indoor coil air.

- High Temperature Heating Ratings - 47°F db/43°F wb outdoor air temperature and 70°F db entering indoor coil air.

- Low Temperature Heating Ratings - 17°F db/15°F wb outdoor air temperature and 70°F db entering indoor coil air.

All ratings include the use of a blower time delay relay (TDR). All Lennox variable-speed Furnaces and Air Handlers have time delay capabilities. Other Furnaces and Air Handlers may require an optional time delay relay (**58M81**) for field installation. See furnace or air handler specifications to determine if relay is needed.

Also see TXV Substitution Table at the beginning of the Heat Pump AHRI System Matches section.

When used with gas furnaces, a dual-fuel control, a control system with dual-fuel capabilities (LZP-2 or LZP-4), or a thermostat with dual-fuel capabilities must be used (order separately).

To convert HSPF from Region IV to Region V - Divide by 1.15.

AHRI SYSTEM MATCHES

Model No.	Cooling Capacity	SEER	EER	Heat Capacity		Heat COP		HSPF (IV)	Coil or Air Handler	Furnace	AHRI Reference
				High	Low	High	Low				
XP25-048-230	47500	20	12.5	45000	29600	3.2	2.32	9.2	C37-49C	EL296UH090XV60C	10084835
XP25-048-230	47500	20	12.5	45000	29600	3.2	2.32	9.2	C37-49C	EL296UH110XV48C	10084858
XP25-048-230	47500	20	12.5	45000	29600	3.2	2.32	9.2	C37-49C	EL296UH110XV60C	10084863
XP25-048-230	47500	20	13	45000	29400	3.22	2.32	9.2	C37-49C	SL280UH090V60C	10084853
XP25-048-230	47500	19.5	12.5	45000	29600	3.2	2.32	9.2	C37-49C	SL280UH110V60C	10084841
XP25-048-230	47500	20	12.5	45000	29600	3.2	2.3	9.2	C37-49C	SLP98UH090XV48C	10084845
XP25-048-230	47500	20	12.5	45000	29600	3.2	2.32	9.2	C37-49C	SLP98UH090XV60C	10084838
XP25-048-230	47500	20	12.5	45000	29600	3.2	2.32	9.2	C37-49C	SLP98UH110XV60C	10084850
XP25-048-230	49000	20	13	46000	30000	2.94	2.24	9.5	C37-62C	EL296UH090XV48C	10084836
XP25-048-230	49000	20	13	46000	30000	2.96	2.24	9.5	C37-62C	EL296UH090XV60C	10084859
XP25-048-230	49000	20	13	46000	30000	2.96	2.24	9.5	C37-62C	EL296UH110XV48C	10084864
XP25-048-230	49000	20	13	46000	30000	2.96	2.24	9.5	C37-62C	EL296UH110XV60C	10084854
XP25-048-230	49000	20	13	46000	29800	2.98	2.24	9.6	C37-62C	SL280UH090V60C	10084842
XP25-048-230	49000	19.5	13	46000	30000	2.96	2.24	9.5	C37-62C	SL280UH110V60C	10084846
XP25-048-230	49000	20	13	46000	30000	2.94	2.24	9.5	C37-62C	SLP98UH090XV48C	10084860
XP25-048-230	49000	20	13	46000	30000	2.96	2.24	9.5	C37-62C	SLP98UH090XV60C	10084865
XP25-048-230	49000	20	13	46000	30000	2.96	2.24	9.5	C37-62C	SLP98UH110XV60C	10084855
XP25-048-230	47500	19.5	13	45000	28600	3.38	2.32	9.7	C37-62D	EL296UH135XV60D	10084843
XP25-048-230	47500	19.5	13	45000	28400	3.4	2.32	9.7	C37-62D	SL280UH135V60D	10084847
XP25-048-230	47500	19.5	13	45000	28600	3.38	2.32	9.7	C37-62D	SLP98UH135XV60D	10084839
XP25-048-230	48000	20.5	13	47500	30600	3.18	2.3	9.7	CBX32MV-048		5947732
XP25-048-230	47000	20	13	47000	30000	3.24	2.4	10	CBX32MV-060		5947730
XP25-048-230	48000	20	13	47500	30600	3.18	2.3	9.7	CBX40UHV-048		5947731
XP25-048-230	47000	20.5	13	47000	30000	3.24	2.42	10.2	CBX40UHV-060		5947729
XP25-048-230	48000	20.5	12.5	46500	30400	3	2.12	9.5	CH33-49	EL296UH090XV48C	5947782
XP25-048-230	48000	20	12.5	46500	30400	3	2.14	9.2	CH33-49	EL296UH090XV60C	5947783
XP25-048-230	48000	20	12.5	46500	30400	3	2.14	9.2	CH33-49	EL296UH110XV48C	5947784
XP25-048-230	48000	20	12.5	46500	30400	3	2.14	9.2	CH33-49	EL296UH110XV60C	5947785
XP25-048-230	48000	20	13	46000	30200	3	2.14	9.5	CH33-49	SL280UH090V60C	5947786
XP25-048-230	48000	20	12.5	46500	30400	3	2.14	9.2	CH33-49	SL280UH110V60C	5947787
XP25-048-230	48000	20.5	12.5	46500	30400	3	2.12	9.5	CH33-49	SLP98UH090XV48C	5947788
XP25-048-230	48000	20	12.5	46500	30400	3	2.14	9.2	CH33-49	SLP98UH090XV60C	5947789
XP25-048-230	48000	20	12.5	46500	30400	3	2.14	9.2	CH33-49	SLP98UH110XV60C	5947790
XP25-048-230	47500	20	12.5	46500	30400	2.98	2.12	9.2	CH33-50/60C	EL296UH090XV48C	5947791
XP25-048-230	47500	19.5	12.5	46500	30400	2.98	2.12	9.2	CH33-50/60C	EL296UH090XV60C	5947792
XP25-048-230	47500	20	12.5	46500	30400	3	2.14	9.2	CH33-50/60C	EL296UH110XV48C	5947793
XP25-048-230	47500	19.5	12.5	46500	30400	3	2.14	9.2	CH33-50/60C	EL296UH110XV60C	5947794
XP25-048-230	47500	19.5	12.5	46000	30200	3	2.14	9.2	CH33-50/60C	SL280UH090V60C	5947795
XP25-048-230	47500	19.5	12.5	46500	30400	3	2.14	9.2	CH33-50/60C	SL280UH110V60C	5947796
XP25-048-230	47500	20	12.5	46500	30400	2.98	2.12	9.2	CH33-50/60C	SLP98UH090XV48C	5947797
XP25-048-230	47500	19.5	12.5	46500	30400	2.98	2.12	9.2	CH33-50/60C	SLP98UH090XV60C	5947798
XP25-048-230	47500	19.5	12.5	46500	30400	3	2.14	9.2	CH33-50/60C	SLP98UH110XV60C	5947799
XP25-048-230	47500	19.5	13	46000	30200	3.04	2.18	9.5	CH33-62D	SL280UH135V60D	5947801
XP25-048-230	47500	19.5	12.5	46000	30200	3.04	2.18	9.5	CH33-62D	SLP98UH135XV60D	5947802
XP25-048-230	47000	18.5	12.5	46000	30200	2.98	2.16	9	CH35-60D	EL296UH135XV60D	10092255
XP25-048-230	47000	19	12.5	46000	30200	2.96	2.16	9	CH35-60D	SL280UH135V60D	10092254
XP25-048-230	47000	18.5	12.5	46000	30200	2.98	2.16	9	CH35-60D	SLP98UH135XV60D	10092256

NOTES:

Ratings are AHRI certified to AHRI Standard 210/240 (with 25 ft. of connecting refrigerant lines);

- Cooling Ratings - 95°F outdoor air temperature and 80°F db/67°F wb entering indoor coil air.
- High Temperature Heating Ratings - 47°F db/43°F wb outdoor air temperature and 70°F db entering indoor coil air.
- Low Temperature Heating Ratings - 17°F db/15°F wb outdoor air temperature and 70°F db entering indoor coil air.

All ratings include the use of a blower time delay relay (TDR). All Lennox variable-speed Furnaces and Air Handlers have time delay capabilities. Other Furnaces and Air Handlers may require an optional time delay relay (**58M81**) for field installation. See furnace or air handler specifications to determine if relay is needed.

Also see TXV Substitution Table at the beginning of the Heat Pump AHRI System Matches section.

When used with gas furnaces, a dual-fuel control, a control system with dual-fuel capabilities (LZP-2 or LZP-4), or a thermostat with dual-fuel capabilities must be used (order separately).

To convert HSPF from Region IV to Region V - Divide by 1.15.

AHRI SYSTEM MATCHES

Model No.	Cooling Capacity	SEER	EER	Heat Capacity		Heat COP		HSPF (IV)	Coil or Air Handler	Furnace	AHRI Reference
				High	Low	High	Low				
XP25-048-230	46500	19.5	12.5	46000	30400	2.96	2.18	9	CR33-50/60	EL296DF090XV60C	5947775
XP25-048-230	46500	19.5	12.5	46000	30400	2.96	2.18	9	CR33-50/60	EL296DF110XV60C	5947776
XP25-048-230	46500	19.5	12.5	45500	30000	2.98	2.18	9	CR33-50/60	SL280DF090V60C	5947777
XP25-048-230	47000	20	12.5	45500	30000	3	2.2	9	CR33-50/60	SL280DF110V60C	5947778
XP25-048-230	46500	20	12	46000	30400	2.94	2.16	9	CR33-50/60	SLP98DF090XV48C	5947779
XP25-048-230	46500	19.5	12.5	46000	30400	2.96	2.18	9	CR33-50/60	SLP98DF090XV60C	5947780
XP25-048-230	46500	19.5	12.5	46000	30400	2.96	2.18	9	CR33-50/60	SLP98DF110XV60C	5947781
XP25-048-230	46500	19.5	12.5	46000	30400	2.96	2.18	9	CR33-60	EL296DF090XV60C	5947849
XP25-048-230	46500	19.5	12.5	46000	30400	2.96	2.18	9	CR33-60	EL296DF110XV60C	5947850
XP25-048-230	46500	19.5	12.5	45500	30000	2.98	2.18	9	CR33-60	SL280DF090V60C	5947851
XP25-048-230	47000	20	12.5	45500	30000	3	2.2	9	CR33-60	SL280DF110V60C	5947852
XP25-048-230	46500	20	12	46000	30400	2.94	2.16	9	CR33-60	SLP98DF090XV48C	5947853
XP25-048-230	46500	19.5	12.5	46000	30400	2.96	2.18	9	CR33-60	SLP98DF110XV60C	5947854
XP25-048-230	47500	20	12.5	45000	29600	3.18	2.3	9.2	CX34-49C	EL296UH090XV48C	5947754
XP25-048-230	47500	20	12.5	45000	29600	3.2	2.32	9.2	CX34-49C	EL296UH090XV60C	5947755
XP25-048-230	47500	20	12.5	45000	29600	3.2	2.32	9.2	CX34-49C	EL296UH110XV48C	5947756
XP25-048-230	47500	20	12.5	45000	29600	3.2	2.32	9.2	CX34-49C	EL296UH110XV60C	5947757
XP25-048-230	47500	20	13	45000	29400	3.22	2.32	9.2	CX34-49C	SL280UH090XV60C	5947758
XP25-048-230	47500	19.5	12.5	45000	29600	3.2	2.32	9.2	CX34-49C	SL280UH110V60C	5947759
XP25-048-230	47500	20	12.5	45000	29600	3.2	2.3	9.2	CX34-49C	SLP98UH090XV48C	5947760
XP25-048-230	47500	20	12.5	45000	29600	3.2	2.32	9.2	CX34-49C	SLP98UH090XV60C	5947761
XP25-048-230	47500	20	12.5	45000	29600	3.2	2.32	9.2	CX34-49C	SLP98UH110XV60C	5947762
XP25-048-230	49000	20	13	46000	30000	2.94	2.24	9.5	CX34-62C	EL296UH090XV48C	8203147
XP25-048-230	49000	20	13	46000	30000	2.96	2.24	9.5	CX34-62C	EL296UH090XV60C	8203148
XP25-048-230	49000	20	13	46000	30000	2.96	2.24	9.5	CX34-62C	EL296UH110XV48C	8203152
XP25-048-230	49000	20	13	46000	30000	2.96	2.24	9.5	CX34-62C	EL296UH110XV60C	8203151
XP25-048-230	49000	20	13	46000	29800	2.98	2.24	9.6	CX34-62C	SL280UH090V60C	8203149
XP25-048-230	49000	19.5	13	46000	30000	2.96	2.24	9.5	CX34-62C	SL280UH110V60C	8203150
XP25-048-230	49000	20	13	46000	30000	2.94	2.24	9.5	CX34-62C	SLP98UH090XV48C	8203154
XP25-048-230	49000	20	13	46000	30000	2.96	2.24	9.5	CX34-62C	SLP98UH090XV60C	8203155
XP25-048-230	49000	20	13	46000	30000	2.96	2.24	9.5	CX34-62C	SLP98UH110XV60C	8203153
XP25-048-230	47500	19.5	13	45000	28600	3.38	2.32	9.7	CX34-62D	EL296UH135XV60D	5947772
XP25-048-230	47500	19.5	13	45000	28400	3.4	2.32	9.7	CX34-62D	SL280UH135V60D	5947773
XP25-048-230	47500	19.5	13	45000	28600	3.38	2.32	9.7	CX34-62D	SLP98UH135XV60D	5947774
XP25-048-230	46000	19	12	46000	28000	3.12	1.88	8.2	CX35-60C	EL296UH090XV48C	10092261
XP25-048-230	46000	19	12	46000	28000	3.14	1.88	8.2	CX35-60C	EL296UH090XV60C	10092262
XP25-048-230	46000	19	12	46000	28000	3.12	1.88	8.2	CX35-60C	EL296UH110XV48C	10092263
XP25-048-230	46000	19	12	46000	28000	3.12	1.88	8.2	CX35-60C	EL296UH110XV60C	10092264
XP25-048-230	46500	19	12.5	46000	27800	3.16	1.88	8.2	CX35-60C	SL280UH090V60C	10092257
XP25-048-230	46500	19	12.5	46000	27800	3.16	1.88	8.2	CX35-60C	SL280UH090XV60C	10092258
XP25-048-230	46000	19	12	46000	28000	3.14	1.88	8.2	CX35-60C	SL280UH110V60C	10092259
XP25-048-230	46000	19	12	46000	28000	3.14	1.88	8.2	CX35-60C	SL280UH110XV60C	10092260
XP25-048-230	46000	19	12	46000	28000	3.12	1.88	8.2	CX35-60C	SLP98UH090XV48C	10092265
XP25-048-230	46000	19	12	46000	28000	3.14	1.88	8.2	CX35-60C	SLP98UH090XV60C	10092266
XP25-048-230	46000	19	12	46000	28000	3.12	1.88	8.2	CX35-60C	SLP98UH110XV60C	10092267
XP25-048-230	47500	20	12.5	45000	29600	3.18	2.3	9.2	CX38-49C	EL296UH090XV48C	10084851
XP25-048-230	47500	20	12.5	45000	29600	3.2	2.32	9.2	CX38-49C	EL296UH090XV60C	10084837

NOTES:

Ratings are AHRI certified to AHRI Standard 210/240 (with 25 ft. of connecting refrigerant lines);

- Cooling Ratings - 95°F outdoor air temperature and 80°F db/67°F wb entering indoor coil air.

- High Temperature Heating Ratings - 47°F db/43°F wb outdoor air temperature and 70°F db entering indoor coil air.

- Low Temperature Heating Ratings - 17°F db/15°F wb outdoor air temperature and 70°F db entering indoor coil air.

All ratings include the use of a blower time delay relay (TDR). All Lennox variable-speed Furnaces and Air Handlers have time delay capabilities. Other Furnaces and Air Handlers may require an optional time delay relay (**58M81**) for field installation. See furnace or air handler specifications to determine if relay is needed.

Also see TXV Substitution Table at the beginning of the Heat Pump AHRI System Matches section.

When used with gas furnaces, a dual-fuel control, a control system with dual-fuel capabilities (LZP-2 or LZP-4), or a thermostat with dual-fuel capabilities must be used (order separately).

To convert HSPF from Region IV to Region V - Divide by 1.15.

AHRI SYSTEM MATCHES

Model No.	Cooling Capacity	SEER	EER	Heat Capacity		Heat COP		HSPF (IV)	Coil or Air Handler	Furnace	AHRI Reference
				High	Low	High	Low				
XP25-048-230	47500	20	12.5	45000	29600	3.2	2.32	9.2	CX38-49C	EL296UH110XV48C	10084861
XP25-048-230	47500	20	12.5	45000	29600	3.2	2.32	9.2	CX38-49C	EL296UH110XV60C	10084866
XP25-048-230	47500	20	13	45000	29400	3.22	2.32	9.2	CX38-49C	SL280UH090XV60C	10084856
XP25-048-230	47500	19.5	12.5	45000	29600	3.2	2.32	9.2	CX38-49C	SL280UH110V60C	10084844
XP25-048-230	47500	20	12.5	45000	29600	3.2	2.3	9.2	CX38-49C	SLP98UH090XV48C	10084848
XP25-048-230	47500	20	12.5	45000	29600	3.2	2.32	9.2	CX38-49C	SLP98UH090XV60C	10084840
XP25-048-230	47500	20	12.5	45000	29600	3.2	2.32	9.2	CX38-49C	SLP98UH110XV60C	10084852
XP25-048-230	49000	20	13	46000	30000	2.94	2.24	9.5	CX38-62C	EL296UH090XV48C	10086774
XP25-048-230	49000	20	13	46000	30000	2.96	2.24	9.5	CX38-62C	EL296UH090XV60C	10086775
XP25-048-230	49000	20	13	46000	30000	2.96	2.24	9.5	CX38-62C	EL296UH110XV48C	10086779
XP25-048-230	49000	20	13	46000	30000	2.96	2.24	9.5	CX38-62C	EL296UH110XV60C	10086778
XP25-048-230	49000	20	13	46000	29800	2.98	2.24	9.6	CX38-62C	SL280UH090V60C	10086776
XP25-048-230	49000	19.5	13	46000	30000	2.96	2.24	9.5	CX38-62C	SL280UH110V60C	10086777
XP25-048-230	49000	20	13	46000	30000	2.94	2.24	9.5	CX38-62C	SLP98UH090XV48C	10086781
XP25-048-230	49000	20	13	46000	30000	2.96	2.24	9.5	CX38-62C	SLP98UH090XV60C	10086782
XP25-048-230	49000	20	13	46000	30000	2.96	2.24	9.5	CX38-62C	SLP98UH110XV60C	10086780
XP25-048-230	47500	19.5	13	45000	28600	3.38	2.32	9.7	CX38-62D	EL296UH135XV60D	10084862
XP25-048-230	47500	19.5	13	45000	28400	3.4	2.32	9.7	CX38-62D	SL280UH135V60D	10084867
XP25-048-230	47500	19.5	13	45000	28600	3.38	2.32	9.7	CX38-62D	SLP98UH135XV60D	10084857
XP25-060-230	57500	18.5	12	52000	33200	3.26	2.32	9.7	C33-49C	EL296UH090XV60C	5947804
XP25-060-230	57500	18.5	12	52000	33200	3.26	2.34	9.7	C33-49C	EL296UH110XV60C	5947805
XP25-060-230	58000	19	12	51500	32800	3.3	2.36	9.7	C33-49C	SL280UH090V60C	5947806
XP25-060-230	58000	18.5	12	51500	33000	3.26	2.34	9.7	C33-49C	SL280UH110V60C	5947807
XP25-060-230	57500	18.5	12	52000	33200	3.26	2.32	9.7	C33-49C	SLP98UH090XV60C	5947808
XP25-060-230	58000	18.5	12	52000	33200	3.26	2.34	9.7	C33-49C	SLP98UH110XV60C	5947809
XP25-060-230	60000	19	12	54000	33400	3.22	2.28	9.7	C33-62C	EL296UH090XV60C	5947810
XP25-060-230	60000	19	12	54000	33400	3.22	2.28	10	C33-62C	EL296UH110XV60C	5947811
XP25-060-230	60500	19.5	12.5	54000	33200	3.28	2.32	10	C33-62C	SL280UH090V60C	5947812
XP25-060-230	60000	19	12.5	54000	33200	3.24	2.3	10	C33-62C	SL280UH110V60C	5947813
XP25-060-230	60000	19	12	54000	33400	3.22	2.28	9.7	C33-62C	SLP98UH090XV60C	5947814
XP25-060-230	60000	19	12	54000	33400	3.22	2.28	10	C33-62C	SLP98UH110XV60C	5947815
XP25-060-230	58500	19	12.5	53000	33400	3.3	2.36	9.7	C33-62D	EL296UH135XV60D	5947816
XP25-060-230	58500	19	12.5	53000	33400	3.32	2.36	9.7	C33-62D	SL280UH135V60D	5947817
XP25-060-230	58500	19	12.5	53000	33400	3.3	2.36	9.7	C33-62D	SLP98UH135XV60D	5947818
XP25-060-230	59500	19	12	54000	32000	2.96	2.12	9	C35-60C	EL296UH110XV60C	10092299
XP25-060-230	60000	19	12.5	54000	32000	3	2.14	9	C35-60C	SL280UH090V60C	10092295
XP25-060-230	60000	19	12.5	54000	32000	3	2.14	9	C35-60C	SL280UH090XV60C	10092296
XP25-060-230	60000	19	12	54000	32000	2.96	2.12	9	C35-60C	SL280UH110V60C	10092297
XP25-060-230	60000	19	12	54000	32000	2.96	2.12	9	C35-60C	SL280UH110XV60C	10092298
XP25-060-230	59500	19	12	54000	32000	2.94	2.12	9	C35-60C	SLP98UH090XV60C	10092300
XP25-060-230	59500	19	12	54000	32000	2.96	2.12	9	C35-60C	SLP98UH110XV60C	10092301
XP25-060-230	58500	18.5	12	51500	29400	3.2	2.04	8.5	C35-60D	EL296UH135XV60D	10092306
XP25-060-230	58500	18.5	12	51500	29400	3.22	2.04	8.5	C35-60D	SL280UH135V60D	10092305
XP25-060-230	58500	18.5	12	51500	29400	3.2	2.04	8.5	C35-60D	SLP98UH135XV60D	10092307
XP25-060-230	57500	18.5	12	52000	33200	3.26	2.32	9.7	C37-49C	EL296UH090XV60C	10084884
XP25-060-230	57500	18.5	12	52000	33200	3.26	2.34	9.7	C37-49C	EL296UH110XV60C	10084887
XP25-060-230	58000	19	12	51500	32800	3.3	2.36	9.7	C37-49C	SL280UH090V60C	10084873

NOTES:

Ratings are AHRI certified to AHRI Standard 210/240 (with 25 ft. of connecting refrigerant lines);

- Cooling Ratings - 95°F outdoor air temperature and 80°F db/67°F wb entering indoor coil air.
- High Temperature Heating Ratings - 47°F db/43°F wb outdoor air temperature and 70°F db entering indoor coil air.
- Low Temperature Heating Ratings - 17°F db/15°F wb outdoor air temperature and 70°F db entering indoor coil air.

All ratings include the use of a blower time delay relay (TDR). All Lennox variable-speed Furnaces and Air Handlers have time delay capabilities. Other Furnaces and Air Handlers may require an optional time delay relay (**58M81**) for field installation. See furnace or air handler specifications to determine if relay is needed.

Also see TXV Substitution Table at the beginning of the Heat Pump AHRI System Matches section.

When used with gas furnaces, a dual-fuel control, a control system with dual-fuel capabilities (LZP-2 or LZP-4), or a thermostat with dual-fuel capabilities must be used (order separately).

To convert HSPF from Region IV to Region V - Divide by 1.15.

AHRI SYSTEM MATCHES

Model No.	Cooling Capacity	SEER	EER	Heat Capacity		Heat COP		HSPF (IV)	Coil or Air Handler	Furnace	AHRI Reference
				High	Low	High	Low				
XP25-060-230	58000	18.5	12	51500	33000	3.26	2.34	9.7	C37-49C	SL280UH110V60C	10084876
XP25-060-230	57500	18.5	12	52000	33200	3.26	2.32	9.7	C37-49C	SLP98UH090XV60C	10084880
XP25-060-230	58000	18.5	12	52000	33200	3.26	2.34	9.7	C37-49C	SLP98UH110XV60C	10084870
XP25-060-230	60000	19	12	54000	33400	3.22	2.28	9.7	C37-62C	EL296UH090XV60C	10084868
XP25-060-230	60000	19	12	54000	33400	3.22	2.28	10	C37-62C	EL296UH110XV60C	10084890
XP25-060-230	60500	19.5	12.5	54000	33200	3.28	2.32	10	C37-62C	SL280UH090V60C	10084885
XP25-060-230	60000	19	12.5	54000	33200	3.24	2.3	10	C37-62C	SL280UH110V60C	10084888
XP25-060-230	60000	19	12	54000	33400	3.22	2.28	9.7	C37-62C	SLP98UH090XV60C	10084874
XP25-060-230	60000	19	12	54000	33400	3.22	2.28	10	C37-62C	SLP98UH110XV60C	10084877
XP25-060-230	58500	19	12.5	53000	33400	3.3	2.36	9.7	C37-62D	EL296UH135XV60D	10084881
XP25-060-230	58500	19	12.5	53000	33400	3.32	2.36	9.7	C37-62D	SL280UH135V60D	10084871
XP25-060-230	58500	19	12.5	53000	33400	3.3	2.36	9.7	C37-62D	SLP98UH135XV60D	10084869
XP25-060-230	57500	19	12	54500	35800	3.28	2.46	10.2	CBX32MV-060		5947803
XP25-060-230	58000	19.5	12.5	54500	35600	3.28	2.46	10.2	CBX40UHV-060		5947855
XP25-060-230	58000	19	12	54000	33800	2.94	2.08	9.2	CH33-49	EL296UH090XV60C	5947834
XP25-060-230	58000	19	12	54000	33600	2.96	2.06	9.2	CH33-49	EL296UH110XV60C	5947835
XP25-060-230	58000	19	12	54000	33400	3	2.1	9.2	CH33-49	SL280UH090V60C	5947836
XP25-060-230	58000	19	12	54000	33400	3	2.1	9.2	CH33-49	SL280UH090XV60C	8177629
XP25-060-230	58000	19	12	54000	33600	2.98	2.08	9.2	CH33-49	SL280UH110V60C	5947837
XP25-060-230	58000	19	12	54000	33600	2.98	2.08	9.2	CH33-49	SL280UH110XV60C	8177630
XP25-060-230	58000	19	12	54000	33800	2.94	2.08	9.2	CH33-49	SLP98UH090XV60C	5947838
XP25-060-230	58000	19	12	54000	33600	2.96	2.08	9.2	CH33-49	SLP98UH110XV60C	5947839
XP25-060-230	57500	18.5	11.5	54000	33800	2.94	2.06	9.2	CH33-50/60C	EL296UH090XV60C	5947840
XP25-060-230	57500	18.5	11.5	54000	33600	2.96	2.06	9.2	CH33-50/60C	EL296UH110XV60C	5947841
XP25-060-230	58000	19	12	54000	33400	3	2.08	9.2	CH33-50/60C	SL280UH090V60C	5947842
XP25-060-230	58000	19	12	54000	33400	3	2.08	9.2	CH33-50/60C	SL280UH090XV60C	8177631
XP25-060-230	57500	18.5	12	54000	33600	2.96	2.08	9.2	CH33-50/60C	SL280UH110V60C	5947843
XP25-060-230	57500	18.5	12	54000	33600	2.96	2.08	9.2	CH33-50/60C	SL280UH110XV60C	8177632
XP25-060-230	57500	18.5	11.5	54000	33800	2.94	2.06	9.2	CH33-50/60C	SLP98UH090XV60C	5947844
XP25-060-230	57500	18.5	11.5	54000	33600	2.96	2.06	9.2	CH33-50/60C	SLP98UH110XV60C	5947845
XP25-060-230	59000	19	12	55500	35600	3	2.22	8.7	CH33-62D	EL296UH135XV60D	5947846
XP25-060-230	59000	19	12	55000	35400	3	2.22	8.7	CH33-62D	SL280UH135V60D	5947847
XP25-060-230	59000	19	12	55500	35600	3	2.22	8.7	CH33-62D	SLP98UH135XV60D	5947848
XP25-060-230	59000	19	12	54000	35000	2.94	2.02	8.7	CH35-60D	EL296UH135XV60D	10092269
XP25-060-230	59000	19	12	54000	35000	2.96	2	8.7	CH35-60D	SL280UH135V60D	10092268
XP25-060-230	59000	19	12	54000	35000	2.94	2.02	8.7	CH35-60D	SLP98UH135XV60D	10092270
XP25-060-230	57500	18.5	11.5	53500	35600	3.08	2.32	9.7	CR33-60	EL296DF090XV60C	5947856
XP25-060-230	58000	18.5	12	53500	35600	3.08	2.32	9.7	CR33-60	EL296DF110XV60C	5947857
XP25-060-230	58000	19	12	53000	35200	3.14	2.36	10	CR33-60	SL280DF090V60C	5947858
XP25-060-230	58000	19	12	53000	35200	3.14	2.36	10	CR33-60	SL280DF110V60C	5947859
XP25-060-230	57500	18.5	11.5	53500	35600	3.08	2.32	9.7	CR33-60	SLP98DF090XV60C	7979864
XP25-060-230	58000	18.5	12	53500	35600	3.08	2.32	9.7	CR33-60	SLP98DF110XV60C	5947861
XP25-060-230	57500	18.5	12	52000	33200	3.26	2.32	9.7	CX34-49C	EL296UH090XV60C	5947819
XP25-060-230	57500	18.5	12	52000	33200	3.26	2.34	9.7	CX34-49C	EL296UH110XV60C	5947820
XP25-060-230	58000	19	12	51500	32800	3.3	2.36	9.7	CX34-49C	SL280UH090V60C	5947821
XP25-060-230	58000	18.5	12	51500	33000	3.26	2.34	9.7	CX34-49C	SL280UH110V60C	5947822
XP25-060-230	57500	18.5	12	52000	33200	3.26	2.32	9.7	CX34-49C	SLP98UH090XV60C	5947823

NOTES:

Ratings are AHRI certified to AHRI Standard 210/240 (with 25 ft. of connecting refrigerant lines);

- Cooling Ratings - 95°F outdoor air temperature and 80°F db/67°F wb entering indoor coil air.

- High Temperature Heating Ratings - 47°F db/43°F wb outdoor air temperature and 70°F db entering indoor coil air.

- Low Temperature Heating Ratings - 17°F db/15°F wb outdoor air temperature and 70°F db entering indoor coil air.

All ratings include the use of a blower time delay relay (TDR). All Lennox variable-speed Furnaces and Air Handlers have time delay capabilities. Other Furnaces and Air Handlers may require an optional time delay relay (**58M81**) for field installation. See furnace or air handler specifications to determine if relay is needed.

Also see TXV Substitution Table at the beginning of the Heat Pump AHRI System Matches section.

When used with gas furnaces, a dual-fuel control, a control system with dual-fuel capabilities (LZP-2 or LZP-4), or a thermostat with dual-fuel capabilities must be used (order separately).

To convert HSPF from Region IV to Region V - Divide by 1.15.

AHRI SYSTEM MATCHES

Model No.	Cooling Capacity	SEER	EER	Heat Capacity		Heat COP		HSPF (IV)	Coil or Air Handler	Furnace	AHRI Reference
				High	Low	High	Low				
XP25-060-230	58000	18.5	12	52000	33200	3.26	2.34	9.7	CX34-49C	SLP98UH110XV60C	5947824
XP25-060-230	60000	19	12	54000	33400	3.22	2.28	9.7	CX34-62C	EL296UH090XV60C	8203141
XP25-060-230	60000	19	12	54000	33400	3.22	2.28	10	CX34-62C	EL296UH110XV60C	8203142
XP25-060-230	60500	19.5	12.5	54000	33200	3.28	2.32	10	CX34-62C	SL280UH090V60C	8203145
XP25-060-230	60000	19	12.5	54000	33200	3.24	2.3	10	CX34-62C	SL280UH110V60C	8203146
XP25-060-230	60000	19	12	54000	33400	3.22	2.28	9.7	CX34-62C	SLP98UH090XV60C	8203143
XP25-060-230	60000	19	12	54000	33400	3.22	2.28	10	CX34-62C	SLP98UH110XV60C	8203144
XP25-060-230	58500	19	12.5	53000	33400	3.3	2.36	9.7	CX34-62D	EL296UH135XV60D	5947831
XP25-060-230	58500	19	12.5	53000	33400	3.32	2.36	9.7	CX34-62D	SL280UH135V60D	5947832
XP25-060-230	58500	19	12.5	53000	33400	3.3	2.36	9.7	CX34-62D	SLP98UH135XV60D	5947833
XP25-060-230	59500	19	12	54000	32000	2.96	2.12	9	CX35-60C	EL296UH110XV60C	10092275
XP25-060-230	60000	19	12.5	54000	32000	3	2.14	9	CX35-60C	SL280UH090V60C	10092271
XP25-060-230	60000	19	12.5	54000	32000	3	2.14	9	CX35-60C	SL280UH090XV60C	10092272
XP25-060-230	60000	19	12	54000	32000	2.96	2.12	9	CX35-60C	SL280UH110V60C	10092273
XP25-060-230	60000	19	12	54000	32000	2.96	2.12	9	CX35-60C	SL280UH110XV60C	10092274
XP25-060-230	59500	19	12	54000	32000	2.94	2.12	9	CX35-60C	SLP98UH090XV60C	10092276
XP25-060-230	59500	19	12	54000	32000	2.96	2.12	9	CX35-60C	SLP98UH110XV60C	10092277
XP25-060-230	58500	18.5	12	51500	29400	3.2	2.04	8.5	CX35-60D	EL296UH135XV60D	10092303
XP25-060-230	58500	18.5	12	51500	29400	3.22	2.04	8.5	CX35-60D	SL280UH135V60D	10092302
XP25-060-230	58500	18.5	12	51500	29400	3.2	2.04	8.5	CX35-60D	SLP98UH135XV60D	10092304
XP25-060-230	57500	18.5	12	52000	33200	3.26	2.32	9.7	CX38-49C	EL296UH090XV60C	10084891
XP25-060-230	57500	18.5	12	52000	33200	3.26	2.34	9.7	CX38-49C	EL296UH110XV60C	10084886
XP25-060-230	58000	19	12	51500	32800	3.3	2.36	9.7	CX38-49C	SL280UH090V60C	10084889
XP25-060-230	58000	18.5	12	51500	33000	3.26	2.34	9.7	CX38-49C	SL280UH110V60C	10084875
XP25-060-230	57500	18.5	12	52000	33200	3.26	2.32	9.7	CX38-49C	SLP98UH090XV60C	10084878
XP25-060-230	58000	18.5	12	52000	33200	3.26	2.34	9.7	CX38-49C	SLP98UH110XV60C	10084882
XP25-060-230	60000	19	12	54000	33400	3.22	2.28	9.7	CX38-62C	EL296UH090XV60C	10086768
XP25-060-230	60000	19	12	54000	33400	3.22	2.28	10	CX38-62C	EL296UH110XV60C	10086769
XP25-060-230	60500	19.5	12.5	54000	33200	3.28	2.32	10	CX38-62C	SL280UH090V60C	10086772
XP25-060-230	60000	19	12.5	54000	33200	3.24	2.3	10	CX38-62C	SL280UH110V60C	10086773
XP25-060-230	60000	19	12	54000	33400	3.22	2.28	9.7	CX38-62C	SLP98UH090XV60C	10086770
XP25-060-230	60000	19	12	54000	33400	3.22	2.28	10	CX38-62C	SLP98UH110XV60C	10086771
XP25-060-230	58500	19	12.5	53000	33400	3.3	2.36	9.7	CX38-62D	EL296UH135XV60D	10084879
XP25-060-230	58500	19	12.5	53000	33400	3.32	2.36	9.7	CX38-62D	SL280UH135V60D	10084883
XP25-060-230	58500	19	12.5	53000	33400	3.3	2.36	9.7	CX38-62D	SLP98UH135XV60D	10084872

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To convert HSPF from Region IV to Region V - Divide by 1.15.

REVISIONS

Sections	Description of Change
AHRI System Matches	Updated



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