

4SHP22LX

PRODUCT SPECIFICATIONS

HIGH EFFICIENCY
SPLIT HEAT PUMP SYSTEM
UP TO 22 SEER (20.9 SEER2)
& 10.5 HSPF (9.5 HSPF2)

FORM NO. 4SHP22LX-100 (01/2023)



COMFORT SYNC
COMMUNICATING THERMOSTAT ENABLED

COMPRESSOR

- Inverter-driven compressor for true variable capacity operation, precision environmental control, and exceptional energy savings
- R410A refrigerant
- Grommet-mounted compressor for quiet operation
- Heavy-duty compressor sound blanket for quiet operation
- Internally protected against high temperature motor overload conditions

CABINET

- Full metal louvered construction to protect the coil
- Individual metal louvered panels remove easily for coil cleaning and service
- Specialized corner-mounted controls for easy service
- Baked polyester paint finished over galvanized steel for maximum durability
- Removable PVC coated wire fan discharge grill
- External gauge ports for easy service
- Removable service panel for internal access
- Compliant with Florida Building Code 2020

COILS

- Omniguard® coil corrosion protection with all-aluminum tube-and-fin coil design
- Lanced fins for maximum heat transfer
- Factory tested for leakproof construction
- Raised coil prevents debris from impeding airflow and helps prevent ice buildup

DESIGN

- Designed for installation as a fully communicating system or with a standard 24V thermostat and non-communicating equipment
- Offers five total operating modes, three in cooling and two for heating, to fine-tune the unit's performance to the application and consumer's needs
- Clean-sweep defrost provides a more thorough defrost, reducing the number of cycles during heating operation
- Designed to perform in temperatures from -15°F to 125°F

COMPONENTS

- 45-degree offset gauge ports are positioned for quick installation and easy service
- Variable speed condenser fan motor
- Swept wing fan blade for quiet operation
- Factory-installed crankcase heater
- Factory-installed TXV for excellent refrigeration control
- Factory-installed high and low pressure switches
- Thread-on pressure switches for simple, quick service
- Fan orifice for smoother airflow and sound level reduction
- Comfort Sync® enabled for communicating systems
- Shipped factory charged for 15 feet of line set
- Discharge muffler for quiet operation
- Demand defrost for increased energy efficiency
- Quiet Shift™ capable to reduce noise during defrost

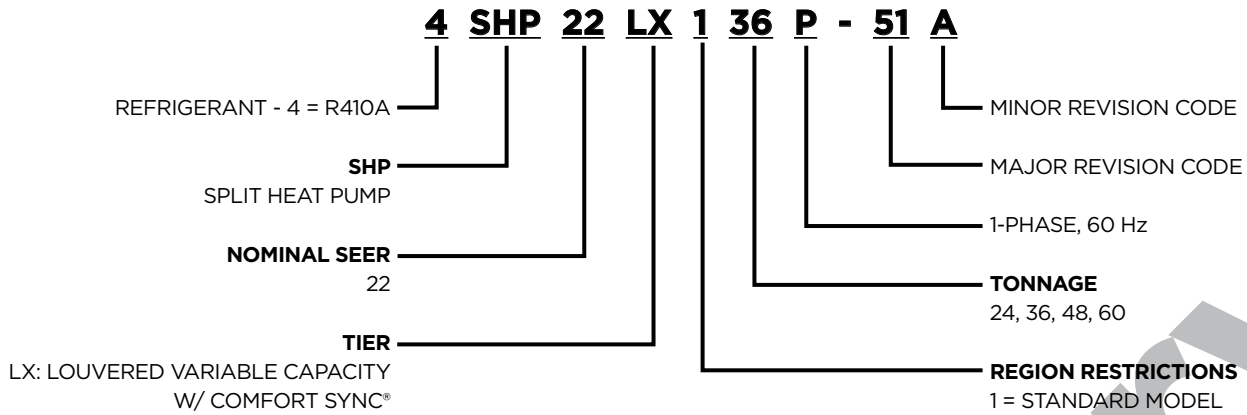
WARRANTY

- 5-year limited warranty
- 10-year limited extended warranty available on all parts and compressor

**Warranty provides for a total of 10 years of limited warranty coverage (Standard 5-year limited parts warranty plus an additional 5-year limited extended parts warranty). Warranty must be registered online within 60 days of installation to qualify for 10-year coverage. Unregistered equipment defaults to 5-year coverage. Lifetime limited heat exchanger warranty applies to registered equipment only (Standard 20 years with no online registration). See full warranty at www.alliedair.com for terms, conditions and exclusions.*



MODEL NUMBER GUIDE



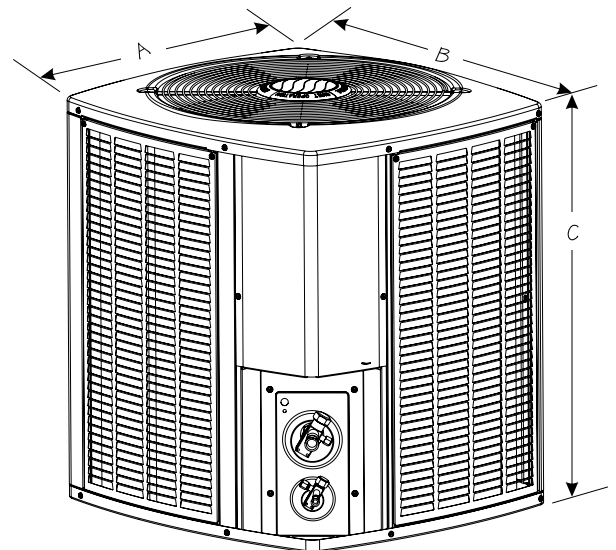
PHYSICAL AND ELECTRICAL DATA

Model	Voltage/Hz/Phase	Voltage Range	Min. Circuit Amp.	Max. Over Current Device (amps)	Compressor	Outdoor Fan Motor		
					Input (amps)	Full Load (amps)	Rated HP	Nom. RPM
4SHP22LX124P-51A	208-230/60/1	197-253	13.4	20	Data to be released with final technical specifications.			
4SHP22LX136P-51A	208-230/60/1	197-253	19.9	30				
4SHP22LX148P-51A	208-230/60/1	197-253	24.6	40				
4SHP22LX160P-51A	208-230/60/1	197-253	33.5	50				

UNIT DIMENSIONS (IN.)

Model	Dimensions (inch)			Shipping Weight (Lbs.)
	A - Width	B - Depth	C - Height	
4SHP22LX124P-51A	38.88	36.88	38.25	Data to be released with final technical specifications.
4SHP22LX136P-51A	38.88	36.88	38.25	
4SHP22LX148P-51A	38.88	36.88	43.75	
4SHP22LX160P-51A	38.88	36.88	43.75	

*Note: Dimensions listed are unit sizes w/o packaging
Weights listed are unit weights with packaging*



SOUND RATINGS

Model	Sound Power ¹ (Low)	Estimated Sound Pressure (dBA) ²			Sound Power ¹ (High)	Estimated Sound Pressure (dBA) ²		
		Approximate Distance ³				Approximate Distance ³		
		One Meter (3.3 feet)	Two Meters (6.6 feet)	Three Meters (9.8 feet)		One Meter (3.3 feet)	Two Meters (6.6 feet)	Three Meters (9.8 feet)
4SHP22LX124P-51A		Data to be released with final technical specifications.						
4SHP22LX136P-51A								
4SHP22LX148P-51A								
4SHP22LX160P-51A								

1 Rated in accordance with AHRI standard 270 (2015)
 2 Rated in accordance with AHRI standard 275 (2010)
 3 Based only on distance factor; other factors may change this value such as:
 • Unit location (reflective surfaces adjacent to the unit)
 • Barrier shielding sources
 • Sound path/elevation
 • Outside noise sources

REFRIGERATION DATA

Model	Refrig. Charge (oz.) [*]	TXV	Refrigerant Line Size		Outdoor Unit Connection		Indoor Unit Connection	
			Suction	Liquid	Suction	Liquid	Suction	Liquid
4SHP22LX124P-51A	Data to be released with final technical specifications.		3/4	3/8	3/4	3/8	3/4	3/8
4SHP22LX136P-51A			7/8	3/8	7/8	3/8	7/8	3/8
4SHP22LX148P-51A			7/8	3/8	7/8	3/8	7/8	3/8
4SHP22LX160P-51A			1-1/8	3/8	1-1/8	3/8	7/8	3/8

^{*} Factory charged for 15 feet of line set; adjust per installation instructions
 NOTE: Refrigerant charge also varies with indoor unit; refer to refrigerant charge label

COOLING PERFORMANCE WITH DTC¹

Outdoor Model	Indoor Model	Cooling				Heating				High CFM	Med CFM	Low CFM		
		Evap. Coil or Air Handler ³	SEER ²	EER ²	AHRI Rated Capacity ²	Sensible Capacity	HSPF ²	47°					17°	
								Btuh	COP				Btuh	COP
4SHP22LX124P-51A		Data to be released with final technical specifications.												
4SHP22LX136P-51A														
4SHP22LX148P-51A														
4SHP22LX160P-51A														

Note:
 1 DTC = Designated tested combination
 2 Certified in accordance with Unitary Air Conditioner Certification Program, which is based on AHRI Standard 210/240
 3 A blower time delay relay is standard on all Allied Air Enterprises furnace and air handler products

ACCESSORIES

Description	Where Used	Kit Number
H4TXV01 (TXV Kit)	24	1.851363
H4TXV02 (TXV Kit)	36	1.851364
H4TXV03 (TXV Kit)	48, 60	1.851365
Freezestat	3/8 tubing	93G35
Crankcase Heater	All models	Factory Installed
Sound Cover	All models	Factory Installed
Loss of Charge Kit	All models	Factory Installed
Comfort Sync® Thermostat	All Models	1.841226
Comfort Sync® Zoning Controller	All models	1.851399
Comfort Sync® Zone Sensor	All Models	1.851422
Discharge Temperature Sensor	All models	88K38



1-800-448-5872

All specifications and illustrations subject to change without notice and without incurring obligations.