

# 4SCU17LE

## PRODUCT SPECIFICATIONS

## SPLIT SYSTEM AIR CONDITIONER UP TO 17 SEER

FORM NO. 4SCU17LE-100 (01/2023)



### COMPRESSOR

- High-efficiency scroll compressor
- R410A refrigerant
- Grommet mounted compressor for quiet operation
- Internally protected against high temperature motor overload conditions
- Heavy-duty compressor sound blanket for quiet operation factory installed

### CABINET

- Full metal louvered panel with 2 screws to remove for ease of coil cleaning and service
- Corner-mounted controls for easy service
- Rounded corners for safety and attractive, clean appearance
- Baked polyester paint finished over galvanized steel for maximum durability
- Removable PVC coated wire fan discharge grill
- External gauge ports for easy service

### COILS

- Omniguard™ total corrosion protection technology designed coil
- Enhanced tube-and-fin coil design featuring MHT™ Technology
- Lanced fins for maximum heat transfer
- Every coil factory tested for leakproof construction
- Raised coil prevents debris from impeding airflow

### COMPONENTS

- 45-degree offset gauge ports for easy service
- Factory installed high and low pressure switches
- Thread-on pressure switches with Schrader core for simple, quick replacement
- Filter drier shipped loose for installation flexibility
- Fan orifice for smoother airflow and sound level reduction
- Charged for 15 feet of line set
- Sealed Contactor with lugs

### WARRANTY

10 year limited warranty on compressor

10 year limited warranty on all parts, extended warranty available\*

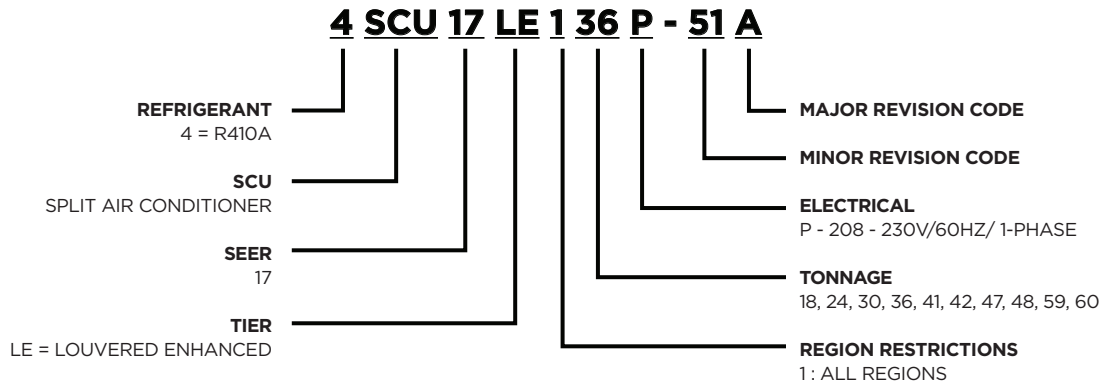
*\*Warranty provides for a total of 10 years of limited warranty coverage (Standard 5-year limited parts warranty plus an additional 5-year limited extended parts warranty). Warranty must be registered online within 60 days of installation to qualify for 10-year coverage. Unregistered equipment defaults to 5-year coverage. See full warranty at [www.alliedair.com](http://www.alliedair.com) for terms, conditions and exclusions.*

### **NOTE:**

For the latest AHRI system matches, please visit [www.alliedratings.com](http://www.alliedratings.com) or [www.AHRIdirectory.org](http://www.AHRIdirectory.org)



**MODEL NUMBER GUIDE**

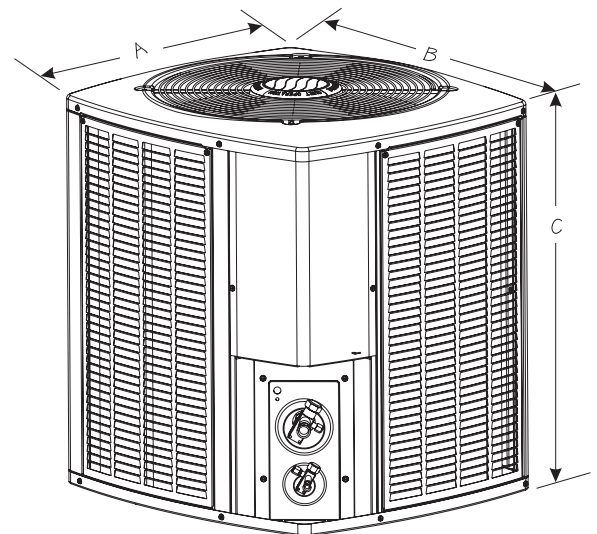


**PHYSICAL AND ELECTRICAL DATA**

Model	Voltage/Hz/Phase	Voltage Range	Min. Circuit Amp.	Max. Over Current Device (amps)	Compressor		Outdoor Fan Motor		
					Rated Load (amps)	Locked Rotor (amps)	Full Load (amps)	Rated HP	Nom. RPM
4SCU17LE118P	208-230/60/1	197-253	12.0	15	8.8	42.6	1.0	1/6	825
4SCU17LE124P	208-230/60/1	197-253	15.4	20	11.7	59.5	0.7	1/8	1075
4SCU17LE130P	208-230/60/1	197-253	18.4	25	14.1	71.3	0.7	1/8	1075
4SCU17LE136P	208-230/60/1	197-253	17.4	30	13.1	83.1	1.0	1/6	825
4SCU17LE141P	208-230/60/1	197-253	21.9	35	15.4	92.1	2.6	1/3	825
4SCU17LE142P	208-230/60/1	197-253	24.6	35	18.6	110.0	1.4	1/4	825
4SCU17LE147P	208-230/60/1	197-253	27.5	35	19.9	110.0	2.6	1/3	825
4SCU17LE148P	208-230/60/1	197-253	33.0	50	25.0	120.0	1.7	1/4	825
4SCU17LE159P	208-230/60/1	197-253	35.5	50	26.3	140.6	2.6	1/3	825
4SCU17LE160P	208-230/60/1	197-253	31.3	50	23.9	124.5	1.4	1/4	825

**UNIT DIMENSIONS (IN.)**

Model	Dimensions (inch)			Shipping Weight (Lbs.)
	A - Width	B - Depth	C - Height	
4SCU17LE118P	29.38	31.25	29.75	170
4SCU17LE124P	29.38	31.25	37.75	190
4SCU17LE130P	29.38	31.25	29.75	190
4SCU17LE136P	29.38	31.25	37.75	220
4SCU17LE141P	35.75	37.75	33.75	270
4SCU17LE142P	35.75	37.75	33.75	250
4SCU17LE147P	35.75	37.75	33.75	270
4SCU17LE148P	29.38	31.25	43.75	260
4SCU17LE159P	35.75	37.75	43.75	300
4SCU17LE160P	35.75	37.75	43.75	305



## SOUND RATINGS

Model	Sound Power <sup>1</sup>	Estimated Sound Pressure (dBA) <sup>2</sup>		
		Approximate Distance <sup>3</sup>		
		3.3 Feet (1 Meter)	6.6 Feet (2 Meters)	9.8 Feet (3 Meters)
4SCU17LE118P	76	68	62	58
4SCU17LE124P	75	67	61	57
4SCU17LE130P	72	64	58	54
4SCU17LE136P	73	65	59	55
4SCU17LE141P	74	66	60	56
4SCU17LE142P	76	68	62	58
4SCU17LE147P	74	66	60	56
4SCU17LE148P	75	67	61	57
4SCU17LE159P	73	65	59	55
4SCU17LE160P	75	67	61	57

<sup>1</sup> Rated in accordance with AHRI standard 270 (2015). AHRI Standard 270 establishes a method of rating outdoor unitary equipment in terms of Sound Power.

<sup>2</sup> Rated in accordance with AHRI standard 275 (2018). AHRI Standard 275 provides the calculations for estimating the A-Weighted Sound Pressure at a given distance from the equipment. That is a more useful number because that is what humans will hear.

<sup>3</sup> 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

## ACCESSORIES

System Accessory	Where Used	Kit Number	Purpose
Liquid Line Solenoid	All models	60M52	Prevents liquid migration to the compressor especially for high liquid riser applications
Low Ambient (cooling operation)	All models	34M72	Enables cooling demand down to 30 °F. Will require freeze stat, CC heater and TXV
Compressor Short Cycle Protector	All models	47J27	Delays compressor start 5-7 minutes to prevent short cycling
Hard Start	Copeland	10J42	Scroll compressors usually do not require hard start; maybe needed for utility brown-out or low voltage areas
	LG	88M91	
Crankcase Heater	18, 24, 30, 36, 42	93M04	Prevents liquid migration to compressor in cold weather
	41, 47, 48, 59, 60	Factory Installed	
Sound Cover	18, 24, 30, 36, 41	14W00	Lowers compressor sound level
	42, 47, 48, 59, 60	14W01	
Additional System Accessories (indoor section)			
TXV Kit	18, 24, 30	H4TXV01	TXVs provide superior refrigerant flow control, comfort and efficiency compared to pistons
	36, 41, 42, 47, 48	H4TXV02	
	59, 60	H4TXV03	
Outdoor Thermostat - Electric Heat	All models	10Z23	Prevents electric heat operation above specific ambient conditions
Outdoor Thermostat - Mounting Box	All models	31461	Mounting box for outdoor thermostat
Freezestat	All models	93G35	Protects the compressor at low suction pressure conditions
Overflow Switch	All models	11U75	Turn the system off, if condensate water overflows due to clogged drain pipes
Blower Time Delay	All models	58M81	Improves system efficiency and comfort
Single Point Power Supply	All models	21H39	Provide single power source in one junction box
Auxiliary Blower Relay	All models	85W66	Maybe required to select multiple indoor blower speeds

**REFRIGERATION DATA**

Model	Refrig. Charge (oz.) *	Piston Size	TXV	Refrigerant Line Size		Outdoor Unit Connection		Indoor Unit Connection	
				Suction	Liquid	Suction	Liquid	Suction	Liquid
4SCU17LE118P	72	0.051	H4TXV01	3/4	3/8	3/4	3/8	3/4	3/8
4SCU17LE124P	82	0.059	H4TXV01	3/4	3/8	3/4	3/8	3/4	3/8
4SCU17LE130P	104	0.067	H4TXV01	3/4	3/8	3/4	3/8	3/4	3/8
4SCU17LE136P	136	0.072	H4TXV02	7/8	3/8	7/8	3/8	7/8	3/8
4SCU17LE141P	140	N/A	H4TXV02	7/8	3/8	7/8	3/8	7/8	3/8
4SCU17LE142P	146	0.081	H4TXV02	7/8	3/8	7/8	3/8	7/8	3/8
4SCU17LE147P	157	N/A	H4TXV02	7/8	3/8	7/8	3/8	7/8	3/8
4SCU17LE148P	152	0.084	H4TXV02	7/8	3/8	7/8	3/8	7/8	3/8
4SCU17LE159P	190	N/A	H4TXV03	1-1/8	3/8	1-1/8	3/8	7/8	3/8
4SCU17LE160P	200	0.092	H4TXV03	1-1/8	3/8	1-1/8	3/8	7/8	3/8

\*Factory charged for 15 feet of line set

\*\* Adapter shipped with unit

† TXV only

**COOLING PERFORMANCE WITH DTC<sup>1</sup>**

Outdoor Model	Indoor Model	Capacity (BTUH)	EER2	SEER2
4SCU17LE118P	EAC4X24B	17600	11.7	14.3
4SCU17LE124P	EAC4X30B	23200	11.7	14.3
4SCU17LE130P	EAC4X30B	28600	11.7	14.3
4SCU17LE136P	EAC4X36B	34200	11.7	14.3
4SCU17LE141P	EAC4X49C	40500	12.2	14.8
4SCU17LE142P	EAC4X49C	41500	11.7	14.3
4SCU17LE147P	EAC4X60C	45500	11.7	14.3
4SCU17LE148P	EAC4X60C	47000	11.2	13.8
4SCU17LE159P	EAC4X60C	55000	11.7	14.3
4SCU17LE160P	EAC4X60C	57000	11.2	13.8

<sup>1</sup> DTC = Designated Tested Combination**NOTE:**

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