

4SCU16LE

PRODUCT SPECIFICATIONS

HIGH EFFICIENCY
SPLIT SYSTEM AIR CONDITIONER
UP TO 15.2 SEER2

FORM NO. 4SCU16LE-100 (11/2022)



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*

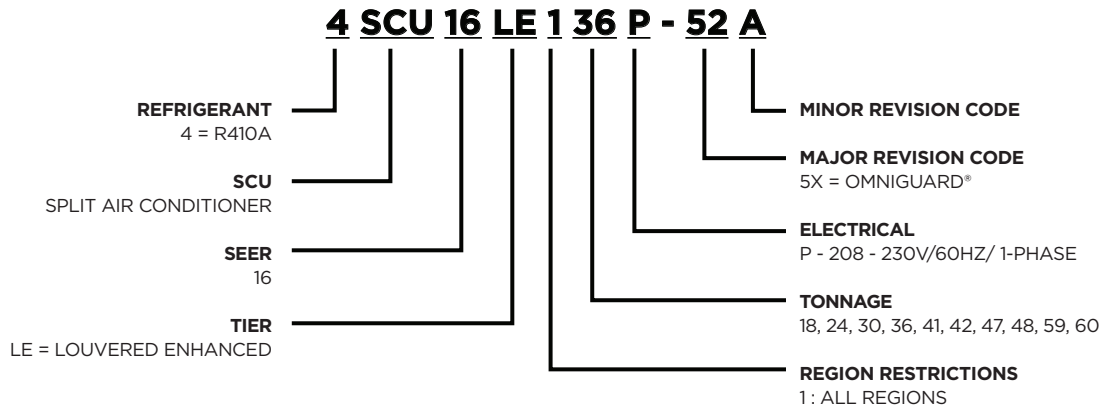
**Warranty provides for a total of 10 years of limited warranty coverage (Standard 5-year limited parts warranty plus an additional 5-year limited extended parts warranty). Warranty must be registered online within 60 days of installation to qualify for 10-year coverage. Unregistered equipment defaults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

NOTE:

For the latest AHRI system matches, please visit www.alliedratings.com or www.AHRIdirectory.org



MODEL NUMBER GUIDE

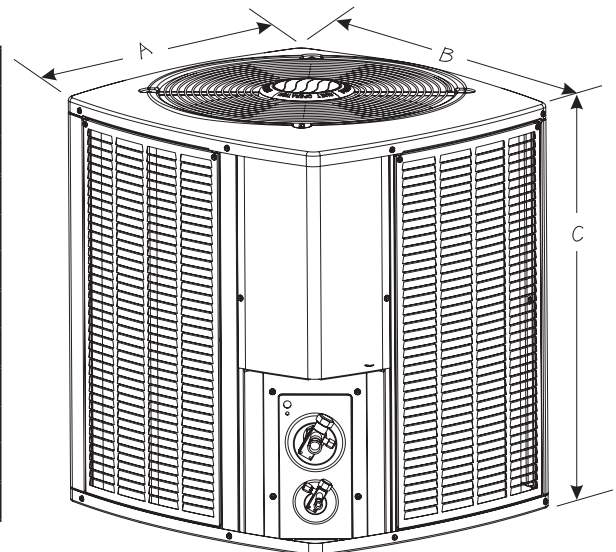


PHYSICAL AND ELECTRICAL DATA

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
4SCU16LE118P-52	208-230/60/1	197-253	11.9	20	7.7	48	0.7	1/10	1075
4SCU16LE118P-53	208-230/60/1	197-253	11.9	20	10.0	48	0.7	1/10	1075
4SCU16LE124P-52	208-230/60/1	197-253	15.7	25	10.1	52	1.0	1/6	825
4SCU16LE124P-53	208-230/60/1	197-253	17.0	25	12.1	63	1.0	1/6	825
4SCU16LE130P-53	208-230/60/1	197-253	20.0	25	14.3	68	1.0	1/6	825
4SCU16LE136P-52	208-230/60/1	197-253	21.2	30	13.6	79	1.0	1/6	825
4SCU16LE141P-52	208-230/60/1	197-253	22.9	30	14.7	75	1.0	1/6	825
4SCU16LE142P-52	208-230/60/1	197-253	24.8	40	15.9	112	1.0	1/6	825
4SCU16LE147P-52	208-230/60/1	197-253	26.3	35	16.9	94	1.8	1/3	825
4SCU16LE148P-52	208-230/60/1	197-253	26.3	40	16.9	94	1.7	1/4	825
4SCU16LE159P-52	208-230/60/1	197-253	32.5	45	20.8	127	2.8	1/3	V Spd
4SCU16LE160P-52	208-230/60/1	197-253	34.7	50	22.2	128	1.8	1/3	825

UNIT DIMENSIONS (IN.)

Model	Dimensions (inch)			Shipping Weight (Lbs.)
	A - Width	B - Depth	C - Height	
4SCU16LE118P-52,53	24.75	26.75	29.75	155
4SCU16LE124P-52,53	29.38	31.25	29.75	171
4SCU16LE130P-53	29.38	31.25	37.75	187
4SCU16LE136P-52	29.38	31.25	29.75	205
4SCU16LE141P-52	29.38	31.25	37.75	227
4SCU16LE142P-52	29.38	31.25	37.75	234
4SCU16LE147P-52	35.75	37.75	33.75	272
4SCU16LE148P-52	29.38	31.25	37.75	255
4SCU16LE159P-52	35.75	37.75	43.75	284
4SCU16LE160P-52	35.75	37.75	43.75	284



Note:
Dimensions listed are unit sizes w/o packaging

SOUND RATINGS

Model	Sound Power ¹	Estimated Sound Pressure (dBA) ²		
		Approximate Distance ³		
		3.3 Feet (1 Meter)	6.6 Feet (2 Meters)	9.8 Feet (3 Meters)
4SCU16LE118P-52,53	70	62	56	52
4SCU16LE124P-52,53	77	69	63	59
4SCU16LE130P-53	75	67	61	57
4SCU16LE136P-52	78	70	64	60
4SCU16LE141P-52	74	66	60	56
4SCU16LE142P-52	77	69	63	59
4SCU16LE147P-52	79	71	65	61
4SCU16LE148P-52	76	68	62	58
4SCU16LE159P-52	77	69	63	59
4SCU16LE160P-52	78	70	64	60

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

² Rated in accordance with AHRI standard 275 (2010). 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.

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

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	18	10J42	Scroll compressors usually do not require hard start; maybe needed for utility brown-out or low voltage areas
	24 thru 60	88M91	
Crankcase Heater	18, 24, 30, 36	93M04	Prevents liquid migration to compressor in cold weather
	41, 42	93M05	
	47, 48, 59, 60	Factory Installed	
Sound Cover	Factory Installed		Lowers compressor sound level
Loss of Charge Kit	Factory Installed		Protects the compressor if refrigerant charge is too low
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
4SCU16LE118P-52	81	0.049	H4TXV01	3/4	3/8	3/4	3/8	3/4	3/8
4SCU16LE118P-53	62	0.049	H4TXV01	3/4	3/8	3/4	3/8	3/4	3/8
4SCU16LE124P-52	69	0.057	H4TXV01	3/4	3/8	3/4	3/8	3/4	3/8
4SCU16LE124P-53	81	0.057	H4TXV01	3/4	3/8	3/4	3/8	3/4	3/8
4SCU16LE130P-53	112	0.060	H4TXV01	3/4	3/8	3/4	3/8	3/4	3/8
4SCU16LE136P-52	121	0.067	H4TXV02	7/8	3/8	7/8	3/8	7/8	3/8
4SCU16LE141P-52	148	†	H4TXV02	7/8	3/8	7/8	3/8	7/8	3/8
4SCU16LE142P-52	146	0.076	H4TXV02	7/8	3/8	7/8	3/8	7/8	3/8
4SCU16LE147P-52	180	†	H4TXV02	7/8	3/8	7/8	3/8	7/8	3/8
4SCU16LE148P-52	152	0.083	H4TXV02	7/8	3/8	7/8	3/8	7/8	3/8
4SCU16LE159P-52	186	†	H4TXV03	1 1/8	3/8	7/8**	3/8	7/8	3/8
4SCU16LE160P-52	203	0.097	H4TXV03	1 1/8	3/8	7/8**	3/8	7/8	3/8

*Factory charged for 15 feet of line set

** Adapter shipped with unit

† TXV only

COOLING PERFORMANCE WITH DTC¹

Outdoor Model	Indoor Model	Capacity (BTUH)	EER2	SEER2
4SCU16LE118P-52,53	EAC4X24B	18,000	11.5	13.4
4SCU16LE124P-52,53	EAC4X24B	23,600	11.7	13.4
4SCU16LE130P-53	EAC4X30B	28,200	11.5	13.4
4SCU16LE136P-52	EAC4X36B	34,000	11.2	13.4
4SCU16LE141P-52	EAC4X49C	36,600	11.7	13.4
4SCU16LE142P-52	EAC4X49C	39,500	11.2	13.4
4SCU16LE147P-52	EAC4X60C	46,500	12.2	13.4
4SCU16LE148P-52	EAC4X60C	45,500	11.5	13.4
4SCU16LE159P-52	EAC4X60C	56,000	11.7	13.4
4SCU16LE160P-52	EAC4X60C	58,000	11.5	13.4

¹ DTC = Designated Tested Combination

NOTE:

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1-800-448-5872

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