4AC16LT
PRODUCT SPECIFICATIONS

16 SEER SPLIT SYSTEM AIR CONDITIONER

FORM NO. 4AC16LT-100 (07/2019)



DESIGN

- Designed for ambients up to 125°F
- All units are ETL and ETLC approved and AHRI listed
- Top discharge with fan orifice to direct hot air away from living area and shrubbery
- Thread-on pressure switches for simple, quick replacement

COMPONENTS

- Service valves positioned for quick installation and easy service
- Thread-on pressure switches for simple, quick replacement
- Comfort Alert 2™ diagnostics is factory installed
- Trade available components
- Factory installed crank case heater
- Charged for 15 ft. of line set

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. 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.*

COMPRESSOR

- High-efficiency 2 stage Copeland UltraTech™ 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 (optional accessory)

NOTE:

For the latest ratings, please see www.alliedratings.com or www.AHRIdirectory.org

CABINET

- Full metal louvered panels remove for easy coil cleaning and service
- Controls located in corner post for easy installation and service
- Rounded corners for safety and attractive, clean appearance
- Baked polyester paint finish over galvanized steel for maximum durability
- PVC-coated wire fan discharge grill
- External gauge ports for easy service

COILS

- Enhanced aluminum fins and copper tubing for higher efficency and capacity
- Raised coil prevents debris from collecting in bottom of coil and causing loss of airflow

MODEL NUMBER GUIDE

4 AC 16 LT 24 P - 3 A

- **REFRIGERANT** 4=R410A
- **AC** AIR CONDITIONER
- **SEER** 16
- **LT** LOUVERED TWO STAGE
- **TONNAGE** 24, 36, 48, 60
- **ELECTRICAL** P - 1-PHASE, 208/230V, 60 HZ
- **MAJOR REVISION CODE**
- **MINOR REVISION CODE**

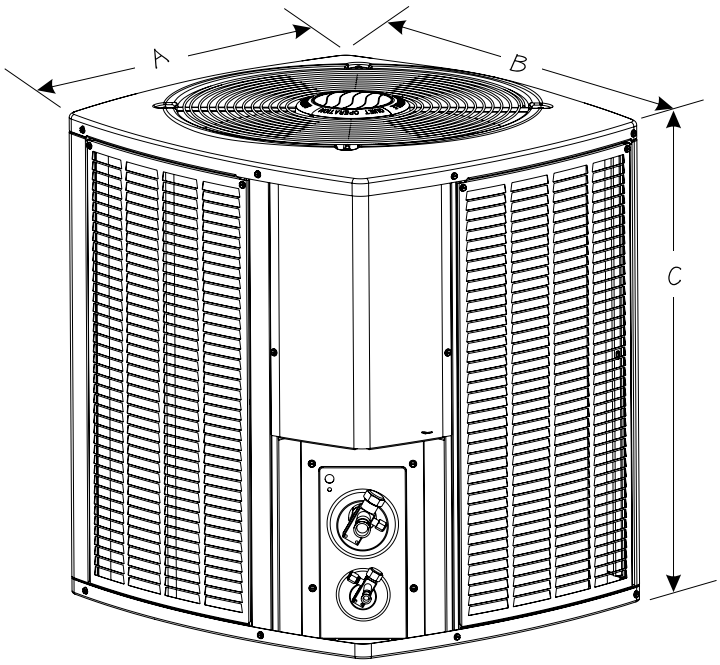
PHYSICAL AND ELECTRICAL

Model	Voltage/Hz/ Phase	Voltage Range	Min. Circuit Amp.	Max. Over Current Device (amps)	Compressor		Fan Motor			Refrig. Charge (oz.)
					Rated Load (amps)	Locked Rotor (amps)	Rated Load (amps)	Rated HP	Nom. RPM	
4AC16LT24P	230/60/1	197 - 253	13.9	20	11.4	52.0	1.1	1/5	1075	117
4AC16LT36P	230/60/1	197 - 253	21.9	35	19.0	82.0	1.1	1/6	825	137
4AC16LT48P	230/60/1	197 - 253	28.1	45	24.0	96.0	1.1	1/6	825	180
4AC16LT60P	230/60/1	197 - 253	33.8	55	26.0	118.0	1.7	1/4	825	214

Note: For applications below 230V, use of a Hard Start Kit is recommended

UNIT DIMENSIONS

Model	Dimensions (inch)			Weight (lbs.)
	A - Width	B - Depth	C - Height	
4AC16LT24P	26.75	24.75	29.75	200
4AC16LT36P	31.25	29.375	29.75	230
4AC16LT48P	31.25	29.375	37.75	262
4AC16LT60P	31.25	29.375	43.75	310



SOUND RATINGS

Model	Sound Power[1]	Estimated Sound Pressure (dBA)[2]		
		Approximate Distance[3]		
		One Meter (3.3 feet)	Two Meters (6.6 feet)	Three Meters (9.8 feet)
4AC16LT24P	74	66	60	56
4AC16LT36P	74	66	60	56
4AC16LT48P	76	68	62	58
4AC16LT60P	76	68	62	58

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*

ACCESSORIES

Description	Where Used	Kit Number
TXV Kit	18, 24, 30	H4TXV01
	36, 42, 48	H4TXV02
	60	H4TXV03
Crankcase Heater	18, 24, 30, 36	Factory Installed
Crankcase Heater	42, 48, 60	Factory Installed
Sound Cover	18, 24, 30, 36	Factory Installed
Sound Cover	42, 48, 60	Factory Installed
Loss of Charge Kit	All models	Factory Installed
Liquid Line solenoid	All models	60M5201
Low ambient AC units (cooling operation)[1]	All models	34M72
Compressor Short Cycle protector	All models	47J27
Outdoor Thermostat - electric heat	All models	56A87
Over flow switch	All models	11U75
Freeze stat	All models	93G35
Blower time delay	All models	58M81
Single point power supply	All models	21H39
Relay (multi indoor speed)	All models	85W66

1 Low ambient AC units will require freeze stat, TXV kit, and crankcase heater

REFRIGERATION DATA

Outdoor Model	Charge (oz) [1]	Refrigerant Connection				Refrigerant Line Size		Indoor Expansion Device	
		Outdoor		Indoor (DTC) [2]					
		Suction	Liquid	Suction	Liquid	Suction	Liquid	Piston [4]	TXV
4AC16LT24P	117	3/4	3/8	3/4	3/8	3/4	3/8	NA	H4TXV01
4AC16LT36P	137	7/8	3/8	7/8	3/8	7/8	3/8	NA	H4TXV02
4AC16LT48P	180	7/8	3/8	7/8	3/8	7/8	3/8	NA	H4TXV02
4AC16LT60P	214	7/8 [3]	3/8	7/8	3/8	1 1/8 [3]	3/8	NA	H4TXV03

Note:
[1] Charged for 15 ft of line set
[2] DTC = Designated Tested Combination
[3] Use 1 1/8 suction line; adapter provided with OD unit
[4] NA = Not Applicable. TXV is required

COOLING PERFORMANCE WITH EVAPORATOR COILS

Outdoor Model	Indoor Model	SEER	EER	AHRI Rated Capacity[1] BTUH	Sensible Rated Capacity	CFM	Refrigerant Connection				Refrigerant Line Size		Indoor Expansion Device	
							Outdoor		Indoor					
	Evaporator Coil or Air Handler[3]						Suction	Liquid	Suction	Liquid	Suction	Liquid	Piston[2]	TXV
4AC16LT24P	E(U,C,M,H)1P36A,B,C	14.00	11.50	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	NA	A4TXV01
4AC16LT36P	E(U,C,M,H)1P36A,B,C	14.00	11.00	34,400	25,800	1200	3/4	3/8	3/4	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P43B,C	14.00	11.00	35,000	26,300	1200	3/4	3/8	3/4	3/8	7/8	3/8	NA	A4TXV01
4AC16LT48P	E(U,C)1P62C	14.00	11.00	46,500	34,900	1600	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV02
	E(U,C)1P62D	14.00	11.00	46,500	34,900	1600	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV02
	EH1P62C,D	14.00	11.00	46,500	34,900	1600	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV02
4AC16LT60P	E(U,C)1P62C	14.00	11.00	57,000	42,800	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	NA	A4TXV02

** All matches must be with variable speed air systems - The furnace must be able to provide first and second stage air flows (or only run at high speed)*
Note:
1 Certified in accordance with Unitary Air Conditioner Certification Program, which is based on AHRI Standard 210/240
2 Required to achieve AHRI rating. If NA (Not Applicable) is in the piston column, then TXV is required
3 A blower time delay relay is required to achieve AHRI rating. This feature is standard on all Allied Air Enterprises Furnace and AH products

NOTE:
For the latest ratings, please see
www.alliedratings.com or www.AHRIdirectory.org

COOLING PERFORMANCE EXTENDED RATINGS

Outdoor Model	Indoor Model	Indoor Temp DB/ WB °F	Outdoor Temp - DB°F														
			65			82			95			105			115		
			Btuh	S/T	kW	Btuh	S/T	kW	Btuh	S/T	kW	Btuh	S/T	kW	Btuh	S/T	kW
4AC16LT24P	E(U,C,M,H)1P 36B/EFV08B	85/72	27,000	0.67	1.43	26,500	0.68	1.70	25,000	0.72	1.93	23,600	0.73	2.38	22,200	0.76	2.59
		80/67	26,000	0.70	1.40	25,500	0.71	1.67	24,000	0.75	1.90	22,600	0.76	2.35	21,200	0.79	2.56
		75/63	25,000	0.73	1.37	24,500	0.74	1.64	23,000	0.78	1.87	21,600	0.79	2.32	20,200	0.82	2.53
4AC16LT36P	E(U,C,M,H)1P 43B/EFV12B	85/72	40,200	0.66	1.76	38,200	0.68	2.31	36,400	0.69	2.98	35,000	0.71	3.28	33,000	0.74	3.69
		80/67	39,200	0.69	1.73	37,200	0.71	2.28	35,400	0.72	2.95	34,000	0.74	3.25	32,000	0.77	3.66
		75/63	38,200	0.72	1.70	36,200	0.74	2.25	34,400	0.75	2.92	33,000	0.77	3.22	31,000	0.80	3.63
4AC16LT48P	E(U,C,M,H)1P 62C/EFV16C	85/72	55,400	0.68	2.93	52,000	0.71	3.43	49,500	0.72	3.89	48,000	0.73	4.23	45,800	0.75	5.53
		80/67	53,400	0.71	2.90	50,000	0.74	3.40	47,500	0.75	0.39	46,000	0.76	4.20	43,800	0.78	5.50
		75/63	51,400	0.74	2.87	48,000	0.77	3.37	45,500	0.78	3.83	44,000	0.79	4.17	41,800	0.81	5.47
4AC16LT60P	E(U,C,M,H)1P 62D/EFV20D	85/72	61,000	0.64	3.82	60,000	0.65	4.49	59,000	0.68	5.11	55,000	0.69	5.66	52,000	0.72	6.30
		80/67	59,000	0.67	3.79	58,000	0.68	4.46	57,000	0.71	5.08	53,000	0.72	5.63	50,000	0.75	6.27
		75/63	57,000	0.70	3.76	56,000	0.71	4.43	55,000	0.74	5.05	51,000	0.75	5.60	48,000	0.78	6.24

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