

TABULAR DATA SHEET

AL6B SERIES SPLIT SYSTEM AIR CONDITIONERS

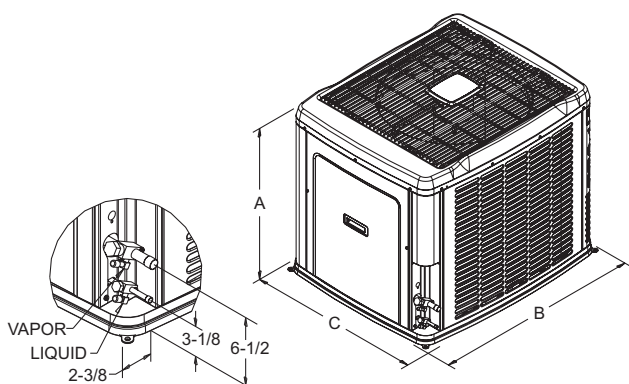
16 SEER – R-410A – 1 PHASE – 2 THRU 5 NOMINAL TONS

MODELS: AL6B024 THRU 060

Physical and Electrical Data

MODEL	AL6B024F3(C)	AL6B030F3(C)	AL6B036F4(C)	AL6B042F3(C)	AL6B048F4(C)	AL6B060F3(C)
Unit Supply Voltage	208-230V, 1 ϕ , 60Hz					
Normal Voltage Range ¹	187 to 252					
Minimum Circuit Ampacity	17.3	18.1	18.9	23.7	26.1	29.5
Max. Overcurrent Device Amps ²	30	30	30	40	45	50
Min. Overcurrent Device Amps ³	20	20	20	25	30	40
Compressor Amps	Type	Scroll	Scroll	Scroll	Scroll	Scroll
	Rated Load	13.4	14.1	14.1	17.9	19.9
	Locked Rotor	58	73	77	112	109
Crankcase Heater	No	No	No	No	No	No
Factory External Discharge Muffler	No	No	No	No	No	No
Factory External Check Valve	No	No	No	No	No	No
HS Kit Required with TXV ⁴	No	No	No	No	No	No
Fan Diameter Inches	22	22	22	22	24	24
Fan Motor	Rated HP	1/15	1/15	1/4	1/4	1/3
	Rated Load Amps	0.5	0.5	1.3	1.3	2.8
	Nominal RPM	850	850	850	850	915
	Nominal CFM	2020	2050	3250	3300	3900
Coil	Face Area Sq. Ft.	14.1	14.0	19.3	19.3	22.8
	Rows Deep	1	1	1	1	1
	Fins / Inch	23	23	23	23	23
Liquid Line Set OD (Field Installed)	3/8	3/8	3/8	3/8	3/8	3/8
Vapor Line Set OD (Field Installed)	3/4	3/4	3/4	7/8	7/8	1-1/8
Unit Charge (Lbs. - Oz.) ⁵	3 - 12	4 - 6	5 - 11	6 - 4	7 - 5	6 -14
Charge Per Foot, Oz.	0.62	0.62	0.62	0.67	0.67	0.75
Operating Weight Lbs.	159	166	200	209	250	235

1. Rated in accordance with AHRI Standard 110-2012, utilization range "A".
2. Dual element fuses or HACR circuit breaker. Maximum allowable overcurrent protection.
3. Dual element fuses or HACR circuit breaker. Minimum recommended overcurrent protection.
4. See Hard Start Kit Accessory Installation Manual for Hard Start Kit part number for each model.
5. The Unit Charge is correct for the outdoor unit, smallest matched indoor unit, and 15 feet of refrigerant tubing. For tubing lengths other than 15 feet, add or subtract the amount of refrigerant, using the difference in length multiplied by the per foot value.



Unit Model	Dimensions (Inches)			Refrigerant Connection Service Valve Size	
	A	B	C	Liquid	Vapor
24	30	37	31	3/8	3/4
30	30	37	31		
36	40	37	31		
42	40	37	31		7/8
48	40	42-1/4	34		
60	40	42-1/4	34		

All dimensions are in inches and are subject to change without notice.

Overall height is from bottom of basepan to top of fan guard.

Overall length and width include screw heads.

* Adapter fitting required for 1-1/8" line set.

System Charge for Various Matched Systems

Outdoor Unit	AL6B024F3(C)	AL6B030F3(C)	AL6B036F4(C)	AL6B042F3(C)	AL6B048F4(C)	AL6B060F3(C)
Required TXV ^{1,2}	4F1	4F1	4N1	4N1	4N1	4H1
Indoor Unit ^{3,4,5}	Additional Charge, Oz					
AHE24B	9	—	—	—	—	—
AHE30B	9	0	—	—	—	—
AHE36C	15	6	0	—	—	—
AHE42D	—	9	3	3	—	—
AHE48D	—	13	7	7	4	—
AHE60D	—	—	12	12	9	4
AHR24B	9	—	—	—	—	—
AHR30B	—	0	—	—	—	—
AHR36B	—	6	0	—	—	—
AHR42C	—	—	3	3	—	—
AHR48D	—	—	—	7	4	—
AHR60D	—	—	—	12	9	4
AHV24B	9	—	—	—	—	—
AHV30B	9	0	—	—	—	—
AHV36C	16	6	0	—	—	—
AHV42D	—	16	10	8	—	—
AHV48D	—	—	10	7	4	—
AHV60D	—	—	—	12	9	2
AV*36	15	6	0	—	—	—
AV*48	—	—	7	7	4	—
AV*60	—	—	—	7	4	0
FC/MC/PC32	9	0	—	—	—	—
FC/MC/PC35	9	0	—	—	—	—
FC/MC/PC37	15	6	0	—	—	—
FC/MC/PC43	15	6	0	0	—	—
FC/MC/PC48	—	9	3	3	0	—
FC/MC/PC60	—	13	7	7	4	0
FC/MC62	—	—	12	12	9	4
FC64	—	—	18	18	15	11
HD48	—	—	3	3	—	—
HD60	—	—	7	7	4	—
UC48	—	9	3	—	2	—
UC60	—	13	7	7	5	—

Some of the combinations shown in the above System Charge table require Advanced Main Air Circulating Fan indoor product. For approved coil only matches, please see the "COOLING CAPACITY - Upflow, Downflow & Horizontal Furnaces and Coils" table in the Technical Guide.

FOOTNOTES:

1. For applications requiring a TXV use S1-1TVM*** series kit.
2. A TXV kit must be used with these indoor units to obtain system performance.
3. Systems matched with furnaces or air handlers not equipped with blower-off delays may require blower Time Delay Kit S1-2FD06700224.
4. PC coils cannot be used in downflow or horizontal applications. FC coils cannot be used in horizontal applications.
5. Refer to Technical Guide for actual performance for specified system matches.

PROCEDURES:

1. Unit factory charge listed on the unit nameplate includes refrigerant for the outdoor unit, the smallest matched indoor unit, and 15 feet of interconnecting line tubing.
2. Verify the TXV and additional charge required for specific matched indoor unit in the system using the above table.
3. Add additional charge for the amount of interconnecting line tubing greater than 15 feet at the rate specified in Physical and Electrical Data Table.
4. For indoor matches requiring additional charge, the refrigerant needs to be weighed in for specific matched indoor unit and lineset length.
5. Permanently mark the unit nameplate with the total system charge. Total System Charge = Base Charge (as shipped) + charge adder for matched indoor unit + charge adder for line set.

