

# TABULAR DATA SHEET

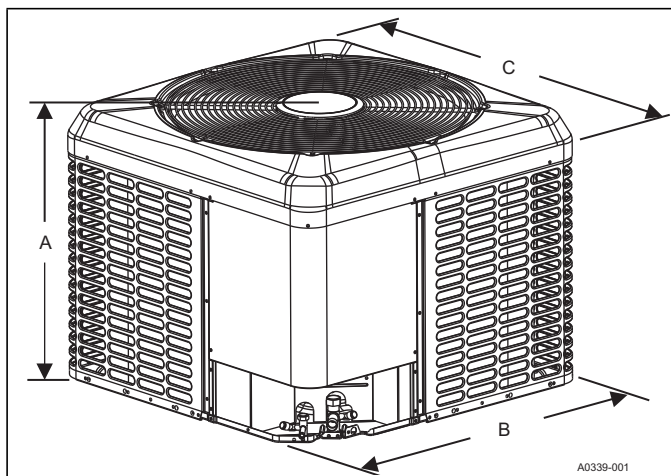
## LX SERIES SPLIT SYSTEM AIR CONDITIONERS 14.0 SEER – R-410A – 1 PHASE – 1.5 THRU 5 NOMINAL TONS MODELS: TC4B18 THRU 60

### PHYSICAL AND ELECTRICAL DATA

MODEL		TC4B1821H	TC4B2421H	TC4B3021H	TC4B3621H	TC4B4221H	TC4B4821S	TC4B6021S
Unit Supply Voltage		208-230V, 1 $\phi$ , 60Hz						
Normal Voltage Range <sup>1</sup>		187 to 252						
Minimum Circuit Ampacity		10.2	11.6	14.2	18.9	21.5	25.7	31.7
Max. Overcurrent Device Amps <sup>2</sup>		15	20	20	30	35	45	50
Min. Overcurrent Device Amps <sup>3</sup>		15	15	15	20	25	30	35
Compressor Type		Recip	Recip	Recip	Recip	Recip	Scroll	Scroll
Compressor Amps	Rated Load	7.7	8.6	10.7	14.1	16.2	19.5	24.3
	Locked Rotor	45.0	45.0	57.0	78.0	88.0	130.0	144.2
Crankcase Heater		No	No	No	No	No	No	No
Factory External Discharge Muffler		No	No	No	No	Yes	No	No
HS Kit Required with TXV <sup>4</sup>		Yes*	Yes*	Yes*	Yes*	Yes*	No	No
Fan Diameter Inches		18	22	22	22	24	24	26
Fan Motor	Rated HP	1/12	1/8	1/8	1/4	1/4	1/4	1/4
	Rated Load Amps	0.64	0.80	0.80	1.30	1.30	1.30	1.30
	Nominal RPM	1000	1075	1075	850	850	850	850
	Nominal CFM	1900	2875	2950	3275	3500	3500	4300
Coil	Face Area Sq. Ft.	12.37	13.83	13.83	17.37	18.74	18.74	23.40
	Rows Deep	1	1	1	1	1	1	1
	Fins / Inch	23	23	23	23	23	23	23
Liquid Line Set OD (Field Installed)		3/8	3/8	3/8	3/8	3/8	3/8	3/8
Vapor Line Set OD (Field Installed) <sup>5</sup>		3/4	3/4	3/4	3/4	7/8	7/8	1-1/8 <sup>‡</sup>
Unit Charge (Lbs. - Oz.) <sup>6</sup>		3 - 14	3 - 12	4 - 3	4 - 14	5 - 2	4 - 15	5 - 12
Charge Per Foot, Oz.		0.62	0.62	0.62	0.62	0.67	0.67	0.75
Operating Weight Lbs.		140	155	155	180	215	200	205

\* Models with "H" on the end of the model number are shipped with a Hard Start Kit installed at the factory.

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. For applications with non-standard vapor line sizes, see the "Applications & Accessories" section of this Technical Guide.
6. 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 actual lineset length (not the equivalent length) multiplied by the per foot value.



### DIMENSIONS

Unit Model	Dimensions (Inches)			Refrigerant Connection Service Valve Size	
	A	B	C	Liquid	Vapor
TC4B1821H	33-1/4	24	24	3/8	3/4
TC4B2421H	30	29-1/4	29-1/4		
TC4B3021H	30	29-1/4	29-1/4		
TC4B3621H	36-1/4	29-1/4	29-1/4		7/8
TC4B4221H	33-1/4	35-1/4	31-3/4		
TC4B4821S	33-1/4	35-1/4	31-3/4		
TC4B6021S	36-1/4	38	34-1/4	7/8 <sup>‡</sup>	

‡ Adapter fitting must be field installed for the required 1-1/8" line set. All dimensions are in inches and are subject to change without notice. Overall height is from bottom of base pan to top of fan guard. Overall length and width include screw heads.

## SYSTEM CHARGE FOR VARIOUS MATCHED SYSTEMS

Outdoor Unit	TC4B1821H	TC4B2421H	TC4B3021H	TC4B3621H	TC4B4221H	TC4B4821S	TC4B6021S
Required TXV <sup>1,2</sup>	BA1	BA1	BB1	BC1	BC1	BC1	BD1
Indoor Unit <sup>3,4,5</sup>	Additional Charge, oz						
AP18B	0	–	–	–	–	–	–
AP24B	3	0	–	–	–	–	–
AP30B	10	7	2	–	–	–	–
AP36B	10	7	2	0	–	–	–
AP36C	–	11	2	2	–	–	–
AP42C	–	11	2	2	0	–	–
AP48(C,D)	–	–	–	5	2	0	–
AP60(C,D)	–	–	–	–	9	2	0
AE18B	0	–	–	–	–	–	–
AE24B	3	0	–	–	–	–	–
AE30B	8	5	0	–	–	–	–
AE36(B,C)	10	7	2	0	–	–	–
AE42C	–	–	–	5	2	–	–
AE48(C,D)	–	–	–	5	2	0	–
AE60C	–	–	–	–	9	2	0
AE60D	–	–	–	–	29	22	20
AVC18B	0	–	–	–	–	–	–
AVC24B	3	0	–	–	–	–	–
AVC30B	8	5	0	–	–	–	–
AVC36(B,C)	10	7	2	0	–	–	–
AVC42C	–	–	–	5	2	–	–
AVC48(C,D)	–	–	–	5	2	0	–
AVC60C	–	–	–	–	9	2	0
AVC60D	–	–	–	–	29	22	20
CF/CM/CU18(A,B)	0	–	–	–	–	–	–
CF/CM/CU24(A,B)	3	0	–	–	–	–	–
CF/CM/CU30(A,B,C)	8	5	0	–	–	–	–
CF/CM/CU36(A,B,C)	10	7	2	0	–	–	–
CF/CM/CU42(B,C,D)	–	11	2	2	0	–	–
CF/CM/CU48(C,D)	–	–	–	5	2	0	–
CF/CM/CU60(C,D)	–	–	–	–	9	2	0
CF/CM64D	–	–	–	–	29	22	20

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.

### FOOTNOTES:

- For applications requiring a TXV, use S1-1TVM\*\*\* series kit.
- A TXV kit must be used with these indoor units to obtain system performance.
- Systems matched with furnaces or air handlers not equipped with blower-off delays may require blower Time Delay Kit S1-2FD06700224.
- CF coils cannot be used in horizontal applications.
- Charge adders shown above do not indicate that coils are rated for every application. Refer to Performance Data Tables for actual performance for specified system matches. Obtain certified system ratings from [www.ahridirectory.org](http://www.ahridirectory.org).

### CHARGING PROCEDURES:

- Check the Factory Unit Charge listed on the unit nameplate to verify the refrigerant charge for the outdoor unit, the smallest matched indoor unit, and the 15 feet of interconnecting lineset.
- Verify the indoor metering device and additional charge required for the specific matched indoor unit in the system using the above table.
- Add additional charge for the amount of interconnecting lineset greater than 15 feet at the rate specified in the Physical and Electrical Table.
- For installations requiring additional charge, weigh in refrigerant for the specific matching indoor unit and actual lineset length.
- Once the charge adders for matched indoor unit and for lineset have been weighed in, verify the system operation against the temperatures and pressures in the Charging Chart for the outdoor unit. Locate Charging Charts on the outdoor unit and also in the Service Data Application Guide on [www.upgnet.com](http://www.upgnet.com). Follow the Subcool or the Superheat charging procedure in the Installation Manual according to the type of indoor metering device in the system, and allow ten minutes after each charge adjustment for the system operation to stabilize. Record the charge adjustment made to match the Charging Chart.
- Permanently stamp the unit data plate with the TOTAL SYSTEM CHARGE defined as follows: TOTAL SYSTEM CHARGE = Base Charge (as shipped) + charge adder for matched indoor unit + charge adder for actual lineset length + charge adjustments to match the Charging Chart.

Subject to change without notice. Published in U.S.A.  
Copyright © 2015 by Johnson Controls, Inc. All rights reserved.

1186744-BTD-E-1215  
Supersedes: 1186744-BTD-D-0815

York International Corp.  
5005 York Drive  
Norman, OK 73069