

# TABULAR DATA SHEET

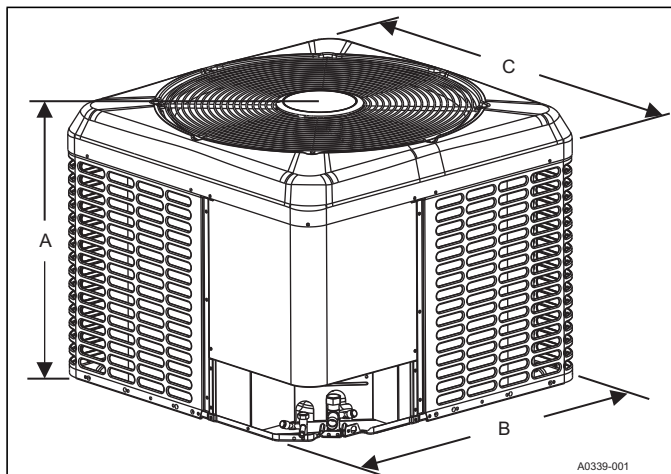


## LX SERIES SPLIT SYSTEM HEAT PUMPS 16.0 SEER – R-410A – 1 PHASE – 2 THRU 5 NOMINAL TONS MODELS: CH1618 THRU 60

### PHYSICAL AND ELECTRICAL DATA

MODEL		CH16B2421S	CH16B3621S	CH16B4821S	CH16B6021S
Unit Supply Voltage		208-230V, 1 $\phi$ , 60Hz			
Normal Voltage Range <sup>1</sup>		187 to 252			
Minimum Circuit Ampacity		17.2	21.0	35.6	34.7
Max. Overcurrent Device Amps <sup>2</sup>		30.0	35.0	60.0	60
Min. Overcurrent Device Amps <sup>3</sup>		20.0	25.0	40.0	50.0
Compressor	Type	Rotary	Rotary	Rotary	Rotary
	Rated Load	13.19	15.2	27.42	23.73
	Locked Rotor	N/A	N/A	N/A	N/A
Crankcase Heater		Yes	Yes	Yes	Yes
Factory External Discharge Muffler		Yes	Yes	Yes	Yes
HS Kit Required with TXV		N/A	N/A	N/A	N/A
Fan Diameter Inches		22	22	24	24
Fan Motor	Rated HP	1/8	1/4	1/3	1/3
	Rated Load Amps	1.0	1.0	1.3	1.3
	Nominal RPM	970	850	1000	1000
	Nominal CFM	2850	3715	4000	4100
Coil	Face Area Sq. Ft.	16.15	19.75	23.82	23.82
	Rows Deep	1	1	1	2
	Fins / Inch	22	18	22	18
Liquid Line Set OD (Field Installed)		3/8	3/8	3/8	3/8
Vapor Line Set OD (Field Installed) <sup>4</sup>		3/4	7/8	7/8	1-1/8 <sup>‡</sup>
Unit Charge (Lbs. - Oz.) <sup>5</sup>		5 - 9	7 - 2	8 - 6	14 - 14
Charge Per Foot, Oz.		0.62	0.67	0.67	0.75
Operating Weight Lbs.		166	204	214	239

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. For applications with non-standard vapor line sizes, see the "Applications & Accessories" section of this Technical Guide.
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 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
CH16B2421S	33-1/4	29-1/4	29-1/4	3/8	3/4
CH16B3621S	39-1/2	29-1/4	29-1/4		7/8
CH16B4821S	39-1/2	35-1/4	31-3/4		7/8 <sup>‡</sup>
CH16B6021S	39-1/2	35-1/4	31-3/4		

<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	CH16B2421S	CH16B3621S	CH16B4821S	CH16B6021S
Required TXV <sup>1,2</sup>	BA1	BF1	BC1	BG1
Indoor Unit <sup>3,4</sup>	Additional Charge, oz			
AE24B	0	-	-	-
AE30B	4	-	-	-
AE36(B,C)	6	0	-	-
AE42C	-	8	-	-
AE48(C,D)	-	8	0	-
AE60C	-	-	8	-
AE60D	-	-	9	-
AVC18B	-	-	-	-
AVC24B	0	-	-	-
AVC30B	4	-	-	-
AVC36(B,C)	6	0	-	-
AVC42C	-	8	-	-
AVC48(C,D)	-	8	0	-
AVC60C	-	-	8	-
AVC60D	-	-	9	-
CF/CM/CU24(A,B)	0	-	-	-
CF/CM/CU30(A,B,C)	4	-	-	-
CF/CM/CU36(A,B,C)	6	0	-	-
CF/CM/CU42(B,C,D)	-	8	-	-
CF/CM/CU48(C,D)	-	8	0	-
CF/CM/CU60(C,D)	-	-	8	-
CF/CM64D	-	-	9	0

All of the combinations require Advanced Main Air Circulating Fan indoor product.

### 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. CF coils cannot be used in horizontal applications.
4. 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:

1. Check the Factory Unit Charge listed on the unit data plate to verify the refrigerant charge for the outdoor unit, the smallest matched indoor unit, and the 15 feet of interconnecting lineset.
2. Verify the indoor metering device and additional charge required for the specific matched indoor unit in the system using the above table.
3. Make sure the unit is locked into high speed and the system stabilizes before charging. Return the heat pump main control jumper to normal when charging is complete. Add additional charge for the amount of interconnecting lineset greater than 15 feet at the rate specified in the Physical and Electrical Data Table.
4. For installations requiring additional charge, weigh in refrigerant for the specific matching indoor unit and actual lineset length.
5. 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.
6. 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 (+ or -) charge adder for actual lineset length + charge adjustments to match the Charging Chart.