

TABULAR DATA SHEET

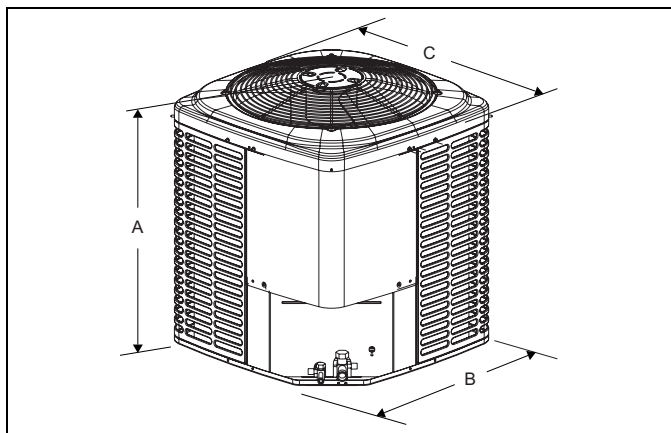
LX SERIES SPLIT SYSTEM HEAT PUMPS 14.5 SEER – R-410A – 1 PHASE – 1.5 THRU 5 NOMINAL TONS MODELS: THJF18* THRU 60

Physical and Electrical Data

MODEL	THJF18 S41S3	THJF24 S41S3	THJF30 S41S3	THJF36 S41S4	THJF42 S41S5	THJF48 S41S5	THJF60 T41S1	
Unit Supply Voltage	208-230V, 1 ϕ , 60Hz							
Normal Voltage Range ¹	187 to 252							
Minimum Circuit Ampacity	11.9	17.6	17.3	19.7	23.7	28.5	37.3	
Max. Overcurrent Device Amps ²	20	30	30	30	40	50	60	
Min. Overcurrent Device Amps ³	15	20	20	20	25	30	40	
Compressor Amps	Type	Scroll	Scroll	Scroll	Recip	Scroll	Scroll	2-Stage Scroll
	Rated Load	9.0	13.4	12.8	14.7	17.9	21.8	28.8
	Locked Rotor	48.0	58.3	64.0	74.0	112.0	117.0	152.9
Crankcase Heater	No	No	No	Yes	No	No	No	
Factory External Discharge Muffler	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Factory External Check Valve	No	No	No	No	No	No	No	
HS Kit Required with TXV ⁴	No	No	No	Yes**	No	No	No	
Fan Diameter Inches	24	22	24	24	24	24	24	
Fan Motor	Rated HP	1/10	1/8	1/4	1/4	1/4	1/4	1/4
	Rated Load Amps	0.7	0.8	1.3	1.3	1.3	1.3	1.3
	Nominal RPM	825	1075	850	850	850	850	850
	Nominal CFM	2000	2000	3900	3800	3600	3500	3450
Coil	Face Area Sq. Ft.	15.72	19.17	23.58	23.58	23.58	23.58	23.58
	Rows Deep	1	1	1	1	1	2	2
	Fins / Inch	22	22	22	22	22	18	18
Liquid Line OD (in) (Field Installed)	3/8	3/8	3/8	3/8	3/8	3/8	3/8	
Vapor Line OD (in) (Field Installed)	3/4	3/4	3/4	3/4	7/8	7/8	1-1/8*	
Unit Charge (Lbs. - Oz.) ⁵	6 - 15	7 - 14	9 - 14	10 - 6	11 - 4	16 - 2	17 - 0	
Charge Per Foot, Oz.	.62	.62	.62	.62	.67	.67	.75	
Operating Weight Lbs.	145	145	176	193	198	250	292	

* These models 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. 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 equivalent length) multiplied by the per foot value.



Unit Model	Dimensions (Inches)			Refrigerant Connection Service Valve Size	
	A	B	C	Liquid	Vapor
18	28-1/4	34	34	3/8	3/4
24	40-1/4	29-1/2	29-1/2		
30	40-1/4	34	34		
36	40-1/4	34	34		7/8
42	40-1/4	34	34		
48	40-1/4	34	34		
60	40-1/4	34	34	7/8*	

* 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	THJF18 S41S3	THJF24 S41S3	THJF30 S41S3	THJF36 S41S4	THJF42 S41S5	THJF48 S41S5	THJF60 T41S1
Required Orifice or TXV ^{1,2}	.051/4F1	.059/4G1	.063/4G1	.071/4H1	075/4J1	4K1	4K1
Indoor Unit ^{3,4,5}	Additional Charge, Oz						
AHE24B	.051 / TXV + 0	.059 / TXV + 0	–	–	–	–	–
AHE30B	.051 / TXV + 0	.059 / TXV + 0	–	–	–	–	–
AHE36C	–	–	.063 / TXV + 0	.071 / TXV + 0	–	–	–
AHE42D	–	–	–	.071 / TXV + 5	–	–	–
AHE48D	–	–	–	.071 / TXV + 25	.075 / TXV + 0	TXV + 0	–
AHE60D	–	–	–	–	TXV + 8	TXV + 10	TXV + 0
AHR24B	.051 / TXV + 0	.059 / TXV + 0	–	–	–	–	–
AHR36B	–	–	.063 / TXV + 0	.071 / TXV + 0	–	–	–
AHR42C	–	–	–	.071 / TXV + 5	–	–	–
AHR48D	–	–	–	–	.075 / TXV + 0	TXV + 0	–
AHV24B	.051 / TXV + 0	.059 / TXV + 0	–	–	–	–	–
AHV30B	.051 / TXV + 0	.059 / TXV + 0	–	–	–	–	–
AHV36C	.051 / TXV + 13	.059 / TXV + 12	.063 / TXV + 0	.071 / TXV + 0	–	–	–
AHV42D	–	–	–	.071 / TXV + 11	–	–	–
AHV48D	–	–	–	.071 / TXV + 31	.075 / TXV + 0	TXV + 0	–
AHV60D	–	–	–	–	TXV + 8	TXV + 10	TXV + 0
FC/MC/PC32	.051 / TXV + 0	.059 / TXV + 0	–	–	–	–	–
FC/MC/PC35	.051 / TXV + 0	.059 / TXV + 0	–	–	–	–	–
FC/MC/PC37	.051 / TXV + 13	.059 / TXV + 12	.063 / TXV + 0	.071 / TXV + 0	–	–	–
FC/MC/PC43	.051 / TXV + 13	.059 / TXV + 12	.063 / TXV + 0	.071 / TXV + 0	–	–	–
FC/MC/PC48	–	–	–	.071 / TXV + 5	–	–	–
FC/MC/PC60	–	–	–	.071 / TXV + 25	.075 / TXV + 0	TXV + 0	–
FC/MC62	–	–	–	–	TXV + 8	TXV + 10	TXV + 0
FC64	–	–	–	–	–	TXV + 29	TXV + 38
UC48	–	–	–	.071 / TXV + 23	–	–	–
UC60	–	–	–	.071 / TXV + 38	.075 / TXV + 4	–	–

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. Approved orifice(s) shipped with outdoor unit.
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 or orifice 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 actual 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 actual lineset length.