

# TABULAR DATA SHEET



## Outdoor Split System Heat Pump 1.5 Thru 5 Tons

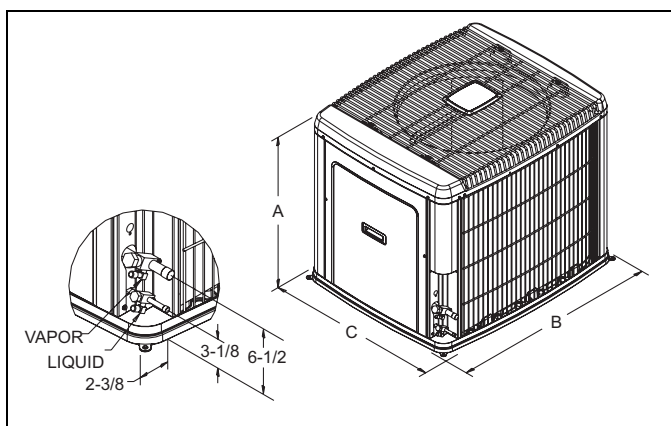
MODELS: HC3B018\* THRU 060\*(C)  
13 SEER – R410A

### Physical and Electrical Data

MODEL	HC3B 018F1(C)	HC3B 024F31(C)	HC3B 030F1(C)	HC3B 036F1(C)	HC3B 042F1(C)	HC3B 048F1(C)	HC3B 060F2(C)	
Unit Supply Voltage	208/230 – 1 – 60							
Normal Voltage Range <sup>1</sup>	187 to 252							
Minimum Circuit Ampacity	14.2	18.8	22.0	25.6	32.1	35.3	37.5	
Max. Overcurrent Device Amps <sup>2</sup>	25	30	35	40	50	60	60	
Min. Overcurrent Device Amps <sup>3</sup>	15	20	25	30	35	40	40	
Compressor Type	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	
Compressor Amps	Rated Load	11.0	14.7	16.4	19.3	24.5	27.0	25.0
	Locked Rotor	51	60	73	88	105	113	150
Crankcase Heater	No	No	No	No	No	No	No	
Fan Motor Amps	Rated Load	0.5	0.5	1.5	1.5	1.5	1.5	1.5
Fan Diameter Inches	22	22	22	22	22	22	24	
Fan Motor	Rated HP	1/15	1/15	1/4	1/4	1/4	1/4	1/4
	Nominal RPM	850	850	850	850	850	850	850
	Nominal CFM	2,050	2,250	3,200	3,250	3,250	3,500	3,500
Coil	Face Area Sq Ft	14.86	17.15	17.15	20.58	20.58	20.58	23.58
	Rows Deep	1	1	1	1	1	2	2
	Fin /Inch	22	22	22	22	22	22	18
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)	3/4	3/4	3/4	3/4	7/8	7/8	7/8	
Unit Charge (Lbs - Oz) <sup>4</sup>	7-1	7-10	7-9	9-5	9-2	12-5	16-8	
Charge Per Foot, oz.	0.62	0.62	0.62	0.62	0.67	0.67	0.67	
Operating Weight Lbs	175	190	195	220	220	260	265	

1. Rated in accordance with ARI Standard 110, 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. The Unit Charge is correct for the outdoor unit, matched indoor coil 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.

All dimensions are in inches. They are subject to change without notice. Certified dimensions will be provided upon request.



Unit Model	Dimensions (Inches)			Refrigerant Connection Service Valve Size	
	A	B	C	Liquid	Vapor
018	29-1/2	37	31	3/8"	3/4"
024	33-1/2	37	31		
030	33-1/2	37	31		
036	39-1/2	37	31		
042	39-1/2	37	31		
048	39-1/2	37	31		
060	39-1/2	42	34		7/8"

### System Charge for Various Matched Systems

Outdoor Unit	HC3B018F3(C)	HC3B024F3(C)	HC3B030F3(C)	HC3B036F3(C)	HC3B042F3(C)	HC3B048F3(C)	HC3B060F3(C)
<b>Required TXV<sup>1</sup></b>	1TVM4E1	1TVM4F1	1TVM4G1	1TVM4H1	1TVM4H1	1TVM4J1	1TVM4K1
<b>Factory Charge, lbs-oz</b>	7-1	7-10	7-9	9-5	9-2	12-5	16-8
<b>Indoor Coil<sup>2</sup></b>	<b>TXV Kit<sup>3</sup> - Additional Charge, oz</b>						
FC/MC/PC/UC18A	901 + 0	-	-	-	-	-	-
FC/MC/PC/UC18B	901 + 0	-	-	-	-	-	-
FC/MC/PC/UC24A	-	902 + 5	-	-	-	-	-
FC/MC/PC/UC24B	-	902 + 5	-	-	-	-	-
FC/MC/PC/UC30A	-	902 + 5	-	-	-	-	-
FC/MC/PC/UC30B	-	902 + 5	-	-	-	-	-
FC/MC/PC/UC36A	-	-	903 + 5	904 + 3	-	-	-
FC/MC/PC/UC36B	-	-	903 + 5	904 + 3	-	-	-
FC/MC/PC/UC36C	-	-	903 + 5	904 + 3	-	-	-
FC/MC/PC/UC48C	-	-	-	-	904 + 7	-	-
FC/MC/PC/UC48D	-	-	-	-	904 + 7	-	-
FC/PC/UC60C	-	-	-	-	-	905 + 12	-
FC/MC/PC/UC60D	-	-	-	-	-	905 + 12	-
MC61D	-	-	-	-	-	905 + 16	-
FC/MC62D	-	-	-	-	-	-	906 + 0
FC64D	-	-	-	-	-	905 + 22	906 + 8
HC18A	901 + 0	-	-	-	-	-	-
HC30A	-	902 + 7	903 + 5	-	-	-	-
HC36B	-	-	-	904 + 5	-	-	-
HC42C	-	-	-	-	904 + 5	-	-
HC60D	-	-	-	-	-	905 + 10	-
HD24A	901 + 9	902 + 7	-	-	-	-	-
HD36B	-	-	903 + 9	904 + 10	-	-	-
HD48C	-	-	-	-	904 + 5	-	-
HD60D	-	-	-	-	-	905 + 10	-
AHP18B	901 + 0	-	-	-	-	-	-
AHP24B	-	902 + 6	-	-	-	-	-
AHP30B	-	-	903 + 9	-	-	-	-
AHP36C	-	-	903 + 14	904 + 13	-	-	-
AHP42C	-	-	-	904 + 13	-	-	-
AHP/SHP48D	-	-	-	-	904 + 7	905 + 8	-
AHP/SHP60D	-	-	-	-	-	905 + 8	-
AV*24B	901 + 3	902 + 6	-	-	-	-	-
AV*36C	-	-	903 + 14	904 + 13	-	-	-
AV/SV*48D	-	-	-	904 + 20	904 + 10	905 + 8	-
F*FP024H06T2A	901 + 0	-	-	-	-	-	-
F*FP024H06T2B	901 + 0	-	-	-	-	-	-
F*FP030H06T2A	-	902 + 3	-	-	-	-	-
F*FP036H06T2A	-	-	903 + 7	904 + 5	-	-	-
F*FP042H06T2A	-	-	-	904 + 7	-	-	-

**FOOTNOTES:**

1. If indoor coil comes with a factory-installed TXV, it must be removed and replaced with the required TXV.
2. Systems matched with furnace or air handlers not equipped with blower-off delays may require blower Time Delay Kit 2FD06700224.
3. A TXV kit must be used with these coils to obtain system performance (1TVM\* ...series).

**PROCEDURES:**

1. Unit factory charge listed on the unit nameplate includes refrigerant for the condenser, the smallest evaporator and 15 feet of interconnecting line tubing.
2. Verify the TXV and additional charge required for specific evaporator coil in the system using the above table.
3. 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 TXV matches requiring additional charge, the refrigerant needs to be weighed in for specific coil match and lineset length.
5. Permanently mark the unit nameplate with the total system charge. Total System Charge = Base Charge (as shipped) + adder for evaporator + adder for line set.

