

TABULAR DATA SHEET



Outdoor Split System Heat Pump 1.5 Thru 5 Tons

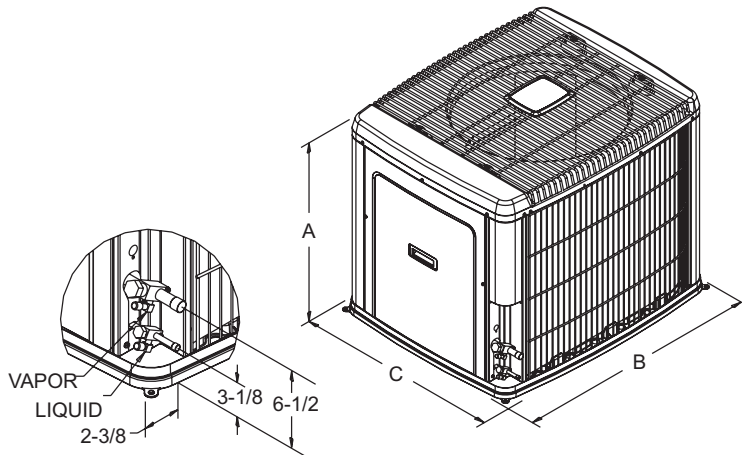
**MODELS: HC3A018* THRU 060*
13 SEER R-22**

Physical and Electrical Data

MODEL	HC3A018F1	HC3A024F1	HC3A030F1	HC3A036F1	HC3A042F1	HC3A048F1	HC3A060F1	
Unit Supply Voltage	208/230 – 1 – 60							
Normal Voltage Range ¹	187 to 252							
Minimum Circuit Ampacity	11.7	14.5	16.7	20.0	27.8	33.9	40.2	
Max. Overcurrent Device Amps ²	20	25	25	30	45	50	60	
Min. Overcurrent Device Amps ³	15	15	20	20	30	35	45	
Compressor Type ⁴	Scroll ^C	Scroll ^C	Scroll ^C	Recip	Scroll ^D	Scroll ^D	Scroll ^D	
Compressor Amps	Rated Load	10.0	12.1	13.6	13.4	21.0	23.0	25.0
	Locked Rotor	41	54	67	78	115	115	150
Crankcase Heater	No	No	No	Yes	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	24	24	24	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	1,900	1,800	3,300	3,600	3,600	3,400	3,400
Coil	Face Area Sq. Ft.	14.86	17.15	20.58	23.58	23.58	23.58	23.58
	Rows Deep	1	1	1	1	1	2	2
	Fin / Inches	22	22	22	22	22	22	22
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	7/8	7/8	7/8	7/8	1-1/8	
Unit Charge (Lbs. - Oz.) ⁵	6 - 6	7 - 9	9 - 1	9 - 9	10 - 9	13 - 1	14 - 11	
Charge Per Foot, Oz.	0.68	0.68	0.70	0.70	0.70	0.70	0.76	
Operating Weight Lbs.	175	190	195	258	258	278	278	

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. All scrolls listed with superscript "D" are Danfoss scrolls. All scrolls listed with superscripts "C" are Copeland scrolls.
5. 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	39-1/2	37	31		
036	39-1/2	42	34		7/8"
042	39-1/2	42	34		
048	39-1/2	42	34		
060	39-1/2	42	34		1-1/8"

* Expander fitting required for 1-1/8" lineset.

SYSTEM CHARGING PROCEDURE

Additional R-22 Charge / TXV Size for Various Matched Systems							
Outdoor Unit	HC3A018F1	HC3A024F1	HC3A030F1	HC3A036F1	HC3A042F1	HC3A048F1	HC3A060F1
Required TXV	1TVM2A1	1TVM2A1	1TVM2A1	1TVM2A1	1TVM2C1	1TVM2C1	1TVM2C1
Factory R-22 Charge, lbs-oz	6 - 6	7 - 9	9 - 1	9 - 9	10 - 9	13 - 1	14 - 11
Indoor Coil ^{1,2}	TXV Kit ^{3,4} - Additional Charge, Oz						
FC/MC/PC/UC18A2A	0	-	-	-	-	-	-
FC/MC/PC/UC18B2A	0	-	-	-	-	-	-
FC/MC/PC/UC24A2A	-	0	-	-	-	-	-
FC/MC/PC/UC24B2A	-	0	-	-	-	-	-
FC/MC/PC/UC30A2A	-	0	-	-	-	-	-
FC/MC/PC/UC30B2A	-	0	-	-	-	-	-
FC/MC/PC35B2A	-	-	0	-	-	-	-
FC/MC/PC/UC42B2C	-	-	0	-	-	-	-
FC/MC/PC/UC42C2C	-	-	0	-	-	-	-
FC/MC/PC/UC48C2C	-	-	-	0	-	-	-
FC/MC/PC/UC48D2C	-	-	-	0	-	-	-
FC/PC/UC60C2C	-	-	-	-	0	0	0
FC/MC/PC/UC60D2C	-	-	-	-	0	0	0
MC61D2C	-	-	-	-	-	0	0
HC18A2A	0	-	-	-	-	-	-
HC30A2A	-	0	-	-	-	-	-
HC36B2A	-	-	0	-	-	-	-
HC42C2C	-	-	-	0	-	-	-
HC60D2C	-	-	-	-	0	0	0
HD24A2A	-	0	-	-	-	-	-
HD36B2A	-	-	0	-	-	-	-
HD48C2C	-	-	-	0	-	-	-
HD60D2C	-	-	-	-	0	0	0
AHP18B2A	0	-	-	-	-	-	-
AHP24B2A	-	0	-	-	-	-	-
AHP30B2A	-	-	0	-	-	-	-
AHP36C2A	-	-	-	0	-	-	-
AHP42C2C	-	-	-	0	-	-	-
AHP/SHP48D2C	-	-	-	-	0	0	-
AHP/SHP60D2C	-	-	-	-	0	0	0
AV24B2A	0	0	-	-	-	-	-
AV36C2A	-	-	0	0	-	-	-
AV/SV48D2C	-	-	-	-	0	0	-
AV/SV60D2C	-	-	-	-	0	0	0
FC/MC/PC/UC18A3X	2A + 0	-	-	-	-	-	-
FC/MC/PC/UC18B3X	2A + 0	-	-	-	-	-	-
FC/MC/PC/UC24A3X	-	2A + 0	-	-	-	-	-
FC/MC/PC/UC24B3X	-	2A + 0	-	-	-	-	-
FC/MC/PC/UC30A3X	-	2A + 0	-	-	-	-	-
FC/MC/PC/UC30B3X	-	2A + 0	-	-	-	-	-
FC/MC/PC35B2A	-	-	2A + 0	-	-	-	-
FC/MC/PC/UC42B3X	-	-	2A + 0	-	-	-	-
FC/MC/PC/UC42C3X	-	-	2A + 0	-	-	-	-
FC/MC/PC/UC48C3X	-	-	-	2A + 0	-	-	-
FC/MC/PC/UC48D3X	-	-	-	2A + 0	-	-	-
FC/PC/UC60C3X	-	-	-	-	2C + 0	2C + 0	2C + 0
FC/MC/PC/UC60D3X	-	-	-	-	2C + 0	2C + 0	2C + 0
MC61D3X	-	-	-	-	-	2C + 0	2C + 0

Additional R-22 Charge / TXV Size for Various Matched Systems (Continued)							
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Required TXV	1TVM2A1	1TVM2A1	1TVM2A1	1TVM2A1	1TVM2C1	1TVM2C1	1TVM2C1
Factory R-22 Charge, lbs-oz	6 - 6	7 - 9	9 - 1	9 - 9	10 - 9	13 - 1	14 - 11
HC18A3X	2A + 0	-	-	-	-	-	-
HC30A3X	-	2A + 0	-	-	-	-	-
HC36B3X	-	-	2A + 0	-	-	-	-
HC42C3X	-	-	-	2A + 0	-	-	-
HC60D3X	-	-	-	-	2C + 0	2C + 0	2C + 0
HD24A3X	-	2A + 0	-	-	-	-	-
HD36B3X	-	-	2A + 0	-	-	-	-
HD48C3X	-	-	-	2A + 0	-	-	-
HD60D3X	-	-	-	-	2C + 0	2C + 0	2C + 0
AHP18B3X	2A + 0	-	-	-	-	-	-
AHP24B3X	-	2A + 0	-	-	-	-	-
AHP30B3X	-	-	2A + 0	-	-	-	-
AHP36C3X	-	-	-	2A + 0	-	-	-
AHP42C3X	-	-	-	2A + 0	-	-	-
AHP/SHP48D3X	-	-	-	-	2C + 0	2C + 0	-
AHP/SHP60D3X	-	-	-	-	2C + 0	2C + 0	2C + 0
AV24B3X	2A + 0	2A + 0	-	-	-	-	-
AV36C3X	-	-	2A + 0	2A + 0	-	-	-
AV/SV48D3X	-	-	-	-	2C + 0	2C + 0	-
AV/SV60D3X	-	-	-	-	2C + 0	2C + 0	2C + 0
F*FP024H06T2A	2A + 0	-	-	-	-	-	-
F*FP040H06T2A	-	-	2A + 0	-	-	-	-
F*FP045H06T2C	-	-	-	-	2C + 0	-	-
F*FV060H06T2C	-	-	-	-	2C + 0	2C + 0	2C + 0

FOOTNOTES:

1. Systems matched with furnace or air handlers not equipped with blower-off delays may require blower Time Delay Kit 2FD06700224.
2. These orifices are factory mounted in the flow device of each indoor coil.
3. A TXV kit must be used with these coils to obtain system performance (2A, 2B, and 2C indicate 1TVM series).
4. If not TXV is listed, the indoor coil has the correct valve factory-installed.

PROCEDURES:

1. Unit factory charge listed on the unit nameplate includes refrigerant for the condenser, the smallest evaporator and for 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 the table above.
4. Permanently mark the unit nameplate with the total system charge. Total System Charge = Base Charge (as shipped) + adder for evaporator + adder for line set.

NOTES