

TABULAR DATA SHEET

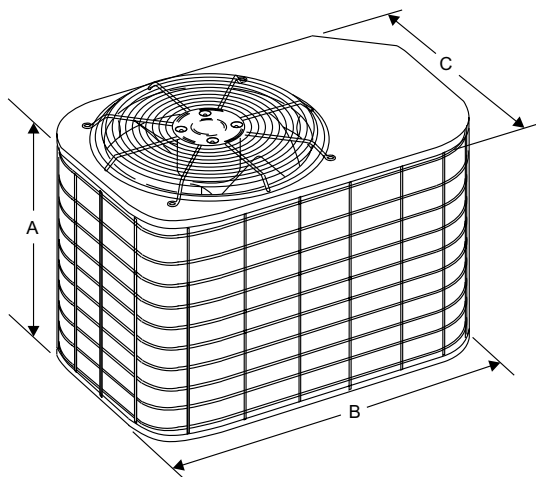
Outdoor Split System Air Conditioner 2 — 5 Tons

FRCS024* Thru 060*
All 14 SEER

Physical and Electrical Data

MODEL	FRCS0241BD	FRCS0301BD	FRCS0361CD	FRCS0421CE	FRCS0481CE	FRCS0601BF
Unit Supply Voltage	208 / 230 - 1 - 60					
Normal Voltage Range ¹	187 to 252					
Minimum Circuit Ampacity	12.1	14.9	18.1	17.8	20.6	31.8
Max Overcurrent Device Amps ²	20	20	25	30	35	50
Compressor Type ³	Inertia	Inertia	Scroll ^C	Scroll ^C	Scroll ^C	Scroll ^B
Compressor Amps	Rated Load	9.3	10.9	13.5	13.2	24.3
	Locked Rotor	57	64	73	95	150
Crankcase Heater	No	No	No	No	No	No
Fan Motor Amps	Rated Load	.5	1.3	1.3	1.3	1.4
	Fan Diameter Inches	22	22	22	24	24
Fan Motor	Rated HP	1/15	1/4	1/4	1/4	1/3
	Nominal RPM	830	825	825	825	1100
	Nominal CFM	2,260	3,300	3,300	3,300	3,500
Coil	Face Area Sq Ft	19.65	23.58	23.58	22.5	27.0
	Rows Deep	1	1	1	2	2
	Fin /Inch	18	18	18	18	18
Liquid Line OD	3/8	3/8	3/8	3/8	3/8	3/8
Vapor Line OD	7/8	7/8	7/8	1 1/8	1 1/8	1 1/8
Unit Charge (Lbs - Oz) ⁴	8 - 0	9 - 14	9 - 6	14 - 0	14 - 3	15 - 13
Charge Per Foot, oz.	0.70	0.70	0.70	0.76	0.76	0.76
Operating Weight Lbs	209	228	219	240	264	270

1. Rated in accordance with ARI Standard 110, utilization range "A".
2. Dual element fuses or HACR circuit breaker.
3. All scrolls listed with superscript "B" are Bristol scrolls. All scrolls listed with superscripts "C" are Copeland scrolls.
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 with out notice. Certified dimensions will be provided upon request.

Unit Model	Dimensions (Inches)			Refrigerant Connection Line Size	
	A	B	C	Liquid	Vapor
024	33	37	27	3/8	7/8
030	39	37	27		
036	39	37	27		
042	32	43	32		1-1/8
048	38	43	32		
060	38	43	32		

1. Included Fan Guard
- * Reducer Fan Guard

R-22 SYSTEM CHARGING PROCEDURE

Additional R-22 Charge / Orifice Size for Various Matched Systems

Outdoor Unit	FRCS0241BD	FRCS0301BD	FRCS0361CD	FRCS0421CE	FRCS0481CE	FRCS0601BF
Unit Orifice(s) ¹	-	-	-	-	-	-
Factory R-22 Charge, lbs-oz	8 - 0	9 - 14	9 - 6	14 - 0	14 - 3	15 - 13

Indoor Coil	Coil Orifice ²	TVX Kit ³ + Additional Charge, Oz					
G2FD030S17	65	701 + 0	701 + 0				
G2FD036S(H)17,21	75	701 + 3	701 + 3	702 + 0	-	-	-
G2FD042S(H)21	78	-	-	702 + 3	703 + 0 ³	-	-
G2FD046S(H)17	78	701 + 3	-	702 + 3	703 + 1 ³	-	-
G2FD048S(H)21,24	84	-	-	702 + 12	703 + 9 ³	703 + 2 ³	-
G2FD060S(H)24	90	-	-	-	703 + 13 ³	703 + 6 ³	703 + 6
G2FD061H24	90	-	-	-	-	703 + 13 ³	703 + 11
G1HD036	69	701 + 9	-	-	-	-	-
G1HD048	81	-	702 + 6	702 + 5	702 + 0	702 + 0	-
G1HD060	93	-	-	-	-	-	703 + 0
G1FA/G1UA036S14	73	701 + 2	701 + 0	-	-	-	-
G1FA/G1UA036S17,21	73	701 + 0	701 + 0	-	-	-	-
G1FA/G1UA048S17,21,24	84	-	701 + 11	702 + 9	703 + 6 ³	703 + 0 ³	-
G1FA/G1UA060S21,24	90	-	-	-	703 + 13 ³	703 + 6 ³	703 + 6
G1NA036S17L	71	701 + 20	-	-	-	-	-
G1NA042S24W	84	-	702 + 23 ³	702 + 24 ³	703 + 19 ³	703 + 13 ³	-
G1NA048S21D	78	701 + 20	-	-	-	-	-
G1NA060S24T	87	-	-	-	-	-	703 + 1
F2RP/F2FP036	75	701 + 6	701 + 3	702 + 2	-	-	-
F2RP/F2FP042	78	-	-	702 + 4	-	-	-
F2FP040	63	701 + 9	-	-	-	-	-
F2FP045	78		701 + 18	702 + 17	703 + 13 ³	-	-
F2FP048	84	-	-	-	703 + 9	-	-
F2FP060	90	-	-	-	-	703 + 6	703 + 6
F2FV060	90	-	-	-	-	703 + 6	703 + 6
MDD048DSD	78	701 + 20	-	-	-	-	-

FOOTNOTES:

1. These orifices are factory mounted in the flow control device of each indoor coil.
2. TXV kit must be used with these coils to obtain system performance. (701,702,703 indicates 1TV07 ...series).
3. Systems matched with furnaces or air handlers not equipped with blower-off delays, may require blower Time Delay Kit #6918A5011.

PROCEDURES:

1. Unit factory charge listed on the unit nameplate includes refrigerant for the condenser, the smallest evaporator and for 15 feet of inter-connecting line tubing.
2. Verify the orifice size and the additional charge required for the 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.
5. If the orifice in the evaporator was changed, verify the evaporator nameplate has been marked with the correct orifice size.