

Standard Fixed Speed Fan Coil FA4C Preliminary Fact Sheet



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The Carrier Fan Coil Model FA4C features:

- R-22 TXVs factory installed
- TDR (Time Delay Relay) factory installed
- Unique cabinet designed to meet leakage regulations
- Factory installed heater packages available
- Factory installed disconnects available

Base Series

FA4C



AVAILABILITY

First Order: October 2005
First Available: December 2005

MODEL NOMENCLATURE

F	A	4	C	N	F	024	005	A E A A
Product Series	Type	Position	Major Series	Electrical	Cabinet/Insulation	Nominal Capacity (Btu)	Heating Size (kw)	Variations
F = Fan Coil	A = Base, R-22	4 = Multipoise		N = 208/230v-1ph-60hz	F = Single piece cabinet with 1-in. super thick insulation B = Modular w/ 1-in. super thick insulation C = Factory installed disconnects	018 = 18,000 024 = 24,000 030 = 30,000 036 = 36,000 042 = 42,000 048 = 48,000 060 = 60,000	000 - no heat 005 - 5 kw 075 - 7.5 kw 008 - 8 kw 010 - 10 kw 011 - 11 kw 015 - 15 kw	

FA4C

PHYSICAL DATA

ODS CATALOG ORDERING NO.	FACTORY- INSTALLED HEAT (KW)	DISCONNECT OPTION (C IN 6TH POSITION)	NOMINAL COOLING CAPACITY (BTUH)	DIMENSIONS			WEIGHT	PRICE
				Height	Width	Depth		
FA4CNF018000	n/a	No	18,000	42-11/16	14-5/16	22-1/16	100	
FA4CNF018005	5	No						
FA4CNC018005	5	Yes						
FA4CNF018008	8	No						
FA4CNC018008	8	Yes						
FA4CNF018010	10	No						
FA4CNC018010	10	Yes						
FA4CNF024000	n/a	No	24,000	47-11/16	17-5/8	22-1/16	117	
FA4CNF024005	5	No						
FA4CNC024005	5	Yes						
FA4CNF024008	8	No						
FA4CNC024008	8	Yes						
FA4CNF024010	10	No						
FA4CNC024010	10	Yes						
FA4CNF030000	n/a	No	30,000	47-11/16	17-5/8	22-1/16	120	
FA4CNF030005	5	No						
FA4CNC030005	5	Yes						
FA4CNF030008	8	No						
FA4CNC030008	8	Yes						
FA4CNF030010	10	No						
FA4CNC030010	10	Yes						
FA4CNF030015	15	No						
FA4CNF036000	n/a	No	36,000	53-7/16	21-1/8	22-1/16	144	
FA4CNF036005	5	No						
FA4CNC036005	5	Yes						
FA4CNF036008	8	No						
FA4CNC036008	8	Yes						
FA4CNF036010	10	No						
FA4CNC036010	10	Yes						
FA4CNF036015	15	No						
FA4CNF042000	n/a	No	42,000	49-5/8	21-1/8	22-1/16	150	
FA4CNF042008	8	No						
FA4CNC042008	8	Yes						
FA4CNF042010	10	No						
FA4CNC042010	10	Yes						
FA4CNF042015	15	No						
FA4CNF048000	n/a	No	48,000	53-7/16	21-1/8	22-1/16	170	
FA4CNF048008	8	No						
FA4CNC048008	8	Yes						
FA4CNF048010	10	No						
FA4CNC048010	10	Yes						
FA4CNF048015	15	No						
FA4CNB060000	n/a	No	60,000	59-3/16	24-11/16	22-1/16	198	
FA4CNB060010	10	No						
FA4CNC060010	10	Yes						

6th Digit: F-Single Piece Cabinet
 B-Modular Cabinet
 C-Disconnet

PHYSICAL DATA Continued

MODEL FA4C	018	024	030	036	042	048	060
SHIPPING WT (Lb)	100	117	120	144	150	170	198
REFRIGERANT METERING DEVICE	TXV - factory installed hard shut-off, byflow-type for heat pump application						
TXV SIZE	3 ton				5 ton		6 ton
COIL							
Rows/Fins Per In.	3 / 14.5						
Face Area (Sq Ft)	2.23	2.97		3.46	4.45	5.93	7.42
Configuration	Slope				A		
FAN							
CFM (Nominal)	600	800	1000	1200	1400	1600	2000
FA4C	Motor Type	PSC	PSC	PSC	PSC	PSC	PSC
	Motor Hp	1/4	1/4	1/4	1/3	1/2	3/4
FILTER*	21-1/2 x	13	16-3/8		19-7/8		23-5/16

* Filter must be field supplied for FA4C units.

Cabinet configuration options

Size		018	024	030	036	042	048	060
MODEL	FA4C	1-piece	1-piece	1-piece	1-piece	1-piece	1-piece	Modular

PERFORMANCE DATA

AIRFLOW PERFORMANCE (CFM) TOTAL EXTERNAL STATIC PRESSURE

Model & Size	Blower Speed	0.10	0.20	0.30	0.40	0.50	0.60
FA4C 018	High	852	810	758	696	625	544
	Low	643	623	584	529	456	366
FA4C 024	High	1055	991	926	860	793	724
	Low	934	878	818	754	686	614
FA4C 030	High	1070	1032	978	908	822	721
	Low	910	888	849	791	715	621
FA4C 036	High	1352	1316	1273	1223	1167	1103
	Low	1137	1112	1081	1043	998	946
FA4C 042	High	1720	1668	1602	1521	1426	1316
	Medium	1576	1540	1488	1421	1338	1239
	Low	1388	1367	1330	1278	1209	1124
FA4C 048	High	1902	1824	1743	1659	1571	1479
	Medium	1830	1763	1690	1611	1527	1436
	Low	1625	1584	1531	1465	1387	1296
FA4C 060	High	2128	2050	1965	1875	1778	1674
	Medium	1959	1898	1829	1750	1663	1566
	Low	1748	1709	1659	1598	1525	1442

NOTES:

1. Airflow based upon dry coil at 230v with factory approved filter and electric heater (2 element heater sizes 18 through 36, 3 element heater sizes 42 through 60).
2. Not recommended for use above 0.60 in. external static pressure.
3. Shading - Airflow outside 450 cfm/ton.

FA4C

PERFORMANCE DATA Continued

AIR DELIVERY PERFORMANCE CORRECTION COMPONENT PRESSURE DROP (IN. WC) AT INDICATED AIRFLOW (DRY-TO-WET COIL)

Unit Size	CFM															
	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
018	0.034	0.049	0.063	--	--	--	--	--	--	--	--	--	--	--	--	--
024	0.016	0.027	0.038	0.049	0.059	--	--	--	--	--	--	--	--	--	--	--
030	--	--	--	0.049	0.059	0.070	0.080	--	--	--	--	--	--	--	--	--
036	--	--	--	--	--	0.055	0.064	0.073	0.081	--	--	--	--	--	--	--
042	--	--	--	--	--	--	--	0.049	0.056	0.063	0.070	--	--	--	--	--
048	--	--	--	--	--	--	--	--	--	0.038	0.043	0.049	0.054	0.059	--	--
060	--	--	--	--	--	--	--	--	--	--	--	0.027	0.031	0.035	0.039	0.043

FA4C

UNIT SIZE		GROSS COOLING CAPACITIES (MBH)															
		INDOOR COIL AIR		SATURATED TEMPERATURE LEAVING EVAPORATOR (deg F)													
				35			40			45			50			55	
		CFM	EWB	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC
FA4C 018	525	72	38	19	0.00	35	17	0.00	30	15	0.01	26	13	0.02	21	11	0.02
		67	32	20	0.02	28	18	0.02	24	16	0.03	19	14	0.03	13	12	0.03
		62	26	20	0.03	22	18	0.03	18	16	0.04	14	14	0.11	12	12	0.26
	600	72	42	21	0.00	38	19	0.00	33	17	0.02	28	15	0.02	23	13	0.03
		67	35	22	0.03	30	20	0.03	26	18	0.03	21	15	0.03	15	13	0.04
		62	28	22	0.04	24	20	0.04	19	18	0.05	16	16	0.13	13	13	0.28
	675	72	45	22	0.00	41	20	0.02	36	18	0.03	30	16	0.03	24	14	0.04
		67	37	24	0.04	33	21	0.04	28	19	0.04	22	17	0.04	16	14	0.05
		62	30	25	0.05	26	22	0.05	21	20	0.06	17	17	0.15	14	14	0.30
FA4C 024	700	72	49	24	0.00	44	22	0.00	38	19	0.02	32	17	0.03	26	14	0.03
		67	40	25	0.04	35	23	0.04	30	20	0.04	23	17	0.04	16	14	0.05
		62	32	26	0.04	27	23	0.04	22	21	0.05	18	18	0.14	15	15	0.29
	800	72	53	26	0.00	48	24	0.02	42	21	0.04	35	18	0.04	28	16	0.05
		67	44	27	0.05	38	25	0.05	32	22	0.05	26	19	0.05	18	16	0.06
		62	35	29	0.05	30	26	0.06	24	23	0.07	20	20	0.17	16	16	0.31
	900	72	57	28	0.00	51	26	0.03	45	23	0.05	38	20	0.05	30	17	0.06
		67	47	30	0.06	41	27	0.06	35	24	0.06	28	21	0.06	20	18	0.08
		62	38	31	0.07	32	28	0.07	26	25	0.08	22	22	0.19	18	18	0.33
FA4C 030	875	72	62	30	0.00	55	27	0.01	48	24	0.02	41	21	0.03	32	18	0.04
		67	51	32	0.04	44	28	0.04	37	25	0.04	29	22	0.04	20	18	0.05
		62	41	33	0.04	34	29	0.05	27	26	0.06	22	22	0.15	18	18	0.30
	1000	72	67	33	0.00	60	30	0.02	52	27	0.04	44	23	0.04	35	20	0.05
		67	55	35	0.05	48	31	0.05	41	28	0.05	32	24	0.05	22	20	0.07
		62	44	36	0.06	38	33	0.06	30	29	0.07	25	25	0.18	20	20	0.32
	1125	72	72	36	0.01	65	32	0.04	57	29	0.05	47	25	0.05	38	22	0.06
		67	60	38	0.06	52	34	0.06	44	30	0.06	35	27	0.07	24	22	0.08
		62	48	39	0.07	41	36	0.07	33	32	0.09	27	27	0.20	23	23	0.34
FA4C 036	1050	72	72	36	0.00	65	32	0.01	57	29	0.03	48	25	0.03	38	21	0.04
		67	59	37	0.04	52	34	0.04	44	30	0.04	34	26	0.04	24	21	0.06
		62	48	39	0.05	40	35	0.05	32	31	0.06	26	26	0.16	22	22	0.31
	1200	72	79	39	0.00	71	35	0.03	62	31	0.04	52	27	0.05	41	23	0.05
		67	65	41	0.05	57	37	0.05	48	33	0.06	38	29	0.06	26	24	0.07
		62	52	43	0.06	44	39	0.06	36	34	0.08	29	29	0.18	24	24	0.33
	1350	72	85	42	0.01	76	38	0.04	66	34	0.05	56	30	0.06	45	25	0.06
		67	70	45	0.06	61	40	0.06	51	36	0.07	41	31	0.07	29	26	0.09
		62	56	46	0.07	48	42	0.07	39	38	0.09	32	32	0.20	27	27	0.34
FA4C 042	1225	72	85	42	0.00	77	38	0.01	67	34	0.02	57	30	0.03	46	25	0.03
		67	70	44	0.03	62	40	0.03	52	36	0.04	42	31	0.04	30	26	0.04
		62	57	46	0.04	48	42	0.04	39	37	0.05	32	32	0.14	27	27	0.28
	1400	72	92	46	0.00	83	42	0.02	73	37	0.03	62	33	0.04	50	28	0.04
		67	76	48	0.04	67	44	0.04	57	39	0.05	46	35	0.05	33	29	0.06
		62	62	51	0.05	53	46	0.05	43	41	0.06	36	36	0.16	30	30	0.30
	1575	72	99	49	0.01	89	45	0.03	79	40	0.04	67	36	0.05	53	30	0.05
		67	82	52	0.05	72	48	0.05	61	43	0.06	49	38	0.06	36	32	0.07
		62	67	55	0.06	57	50	0.06	47	45	0.08	39	39	0.18	33	33	0.32
FA4C 048	1400	72	89	44	0.00	81	40	0.00	72	36	0.01	61	32	0.02	50	28	0.02
		67	74	47	0.02	66	43	0.02	56	38	0.03	46	34	0.03	34	29	0.03
		62	60	49	0.03	52	45	0.03	43	40	0.04	35	35	0.11	29	29	0.26
	1600	72	96	48	0.00	87	44	0.01	78	40	0.02	67	35	0.03	54	30	0.03
		67	80	51	0.03	71	47	0.03	61	42	0.03	50	37	0.03	37	32	0.04
		62	65	54	0.04	56	49	0.04	47	45	0.05	39	39	0.14	33	33	0.28
	1800	72	103	51	0.01	94	47	0.02	83	43	0.03	72	38	0.03	58	33	0.04
		67	86	55	0.04	76	51	0.04	66	46	0.04	53	41	0.04	40	36	0.05
		62	70	59	0.04	60	54	0.05	50	49	0.06	43	43	0.16	36	36	0.29
FA4C 060	1600	72	118	58	0.00	107	53	0.00	94	48	0.01	81	42	0.01	66	36	0.01
		67	98	61	0.02	86	55	0.02	74	50	0.02	60	44	0.02	43	37	0.03
		62	79	63	0.02	68	58	0.02	55	52	0.03	45	45	0.10	37	37	0.25
	1750	72	125	62	0.00	113	56	0.00	100	51	0.01	86	45	0.02	69	38	0.02
		67	103	65	0.02	92	59	0.02	78	53	0.03	64	47	0.03	46	40	0.03
		62	84	68	0.03	72	62	0.03	59	56	0.04	48	48	0.11	40	40	0.26
	2000	72	135	67	0.00	123	62	0.01	109	56	0.02	93	49	0.03	76	42	0.03
		67	113	71	0.03	100	65	0.03	85	59	0.03	69	52	0.03	51	45	0.04
		62	92	75	0.04	79	69	0.04	65	62	0.05	54	54	0.13	45	45	0.27

ACCESSORY ELECTRIC HEATERS

HEATER PART NO.	KW @ 240V	VOLTS/PH	STAGES (KW OPERATING)	INTERNAL CIRCUIT PROTECTION	FAN COIL SIZE USED WITH	HEATING CAP.** @ 230V
KFCEH0401N03	3	230/1	3	None	018-024	9,400
KFCEH0501N05	5	230/1	5	None	018-060	15,700
KFCEH0801N08	8	230/1	8	None	018-070	25,100
KFCEH0901N10	10	230/1	10	None	018-070	31,400
KFCEH3201F20	20	230/1	5, 20	Fuse†	030-070	62,800
KFCEH1601315	15	230/3	5, 15	None	036-070	47,100
KFCEH2001318	18	230/3	6, 12, 18	None	042-070	56,500
KFCEH3401F24	24	230/3*	8, 16, 24	Fuse	048, 060, 070	78,300
KFCEH3501F30	30	230/3*	10, 20, 30	Fuse	048, 060, 070	94,100
KFCEH2401C05	5	230/1	5	Circuit Breaker	018-060	15,700
KFCEH2501C08	8	230/1	8	Circuit Breaker	018-070	25,100
KFCEH2601C10	10	230/1	10	Circuit Breaker	018-070	31,400
KFCEH3301C20	20	230/1	5, 20	Circuit Breaker	030-070	62,800
KFCEH2901N09	9	230/1†	3, 9	None	036-070	28,200
KFCEH3001F15	15	230/1	5, 15	Fuse‡	024-070	47,100
KFCEH3101C15	15	230/1	5, 15	Circuit Breaker	024-070	47,100

* Field convertible to 1 phase.

† Field convertible to 3 phase.

‡ Single point wiring kit required for these heaters in Canada.

** Blower motor heat not included.

FA4C



CERTIFICATION APPLIES ONLY WHEN THE
COMPLETE SYSTEM IS LISTED WITH ARI.

All data contained herein is preliminary and subject to change without notice.

CATALOG # FA4C-2PF

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