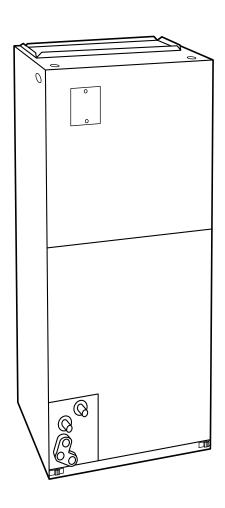


### DIRECT EXPANSION FAN COIL

### **MODEL FK4C**

Sizes 001 thru 006



### FK4C Premium Air Handling Technology

The FK4C is the latest in air handling technology. It is the perfect unit when you need a fan coil that can deliver high-tech performance, application versatility, easy installation, and high efficiency.

The FK4C achieves all this by taking full advantage of its programmable integrated controls and motor (ICM2). This versatile motor is completely static independent, meaning the motor will deliver the selected CFM regardless of the duct system, making it the perfect choice for both high and low static applications. Other features homeowners will appreciate are the FK4C's soft ramp up when the unit is turned on, and its soft ramp down after the thermostat is satisfied. These features increase efficiency and eliminate the annoying sounds associated with sudden changes in airflow. When the ICM2 is used in conjunction with specific indoor controls (such as the Thermidistat™ Control), the HVAC system can operate in comfort control modes like Super Dehumidify. This combination of Bryant products can offer unmatched comfort.

The FK4C also features Bryant's 'Easy Select™ Board.' This board streamlines installation and helps the installer to select the correct airflow. The Easy Select Board combined with the ICM2 truly allows dealers to customize the heating and cooling system to each home.

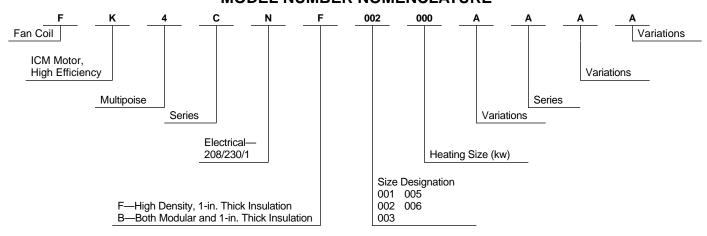
The FK4C is also loaded with the most advanced components, so you know it will perform like a premium fan coil should. Inside you will find grooved copper tubing and lanced sine wave aluminum fins, which contribute to the FK4C's high SEER and HSPF ratings. Bryant technology also incorporates factory washed coils for superior condensate control, dedicated refrigerant circuitry, and state-of-the-art Thermostatic Expansion Valve (TXV) refrigerant metering. These units are designed with a high-impact Lexan© condensate pan. The primary and secondary drain connections include brass inserts. All of this is packed in a rugged, prepainted metal cabinet that is lined with super-thick, high-density insulation. Obviously a unit built to last!

In addition to superior quality, the FK4C also offers the ultimate in versatility. Compact and designed for upflow, downflow, and horizontal applications, the FK4C fits right where it is needed. It is equipped with sweat connections and has multiple electric entries for fast, simple installations. Bryant also offers the FK4C with factory- or field-installed electric resistance heater kits in sizes 5- to 30-kw. When the ultimate in efficiency, flexibility, comfort, and durability is needed, the FK4C is the fan coil to use.

### **FEATURES**

- Programmable ICM2 blower motor
- Easy Select™ Board
- Grooved copper tube
- Lanced sine wave aluminum fin
- Discreet refrigerant circuits
- Prepainted galvanized sheet metal cabinet
- · Cooling control in every unit
- Static independent airflow
- Logarithmic spiral blower housings for blower efficiency
- High impact Lexan© condensate pans
- All units multipoise
- Provision made for suspending from roof or ceiling joists
- Modular cabinet design on 006 size
- Factory-supplied, cleanable, permanent framed filter
- Easy access filter no tools required
- Field-installed heater packages 5- to 30-kw, fused, circuit breaker, non-fused (10-kw and down)
- Low-voltage terminal block
- AMP plug connection provided for accessory heater packages
- Connections for humidistat/humidifier
- · Connections for air cleaner relay
- Blower on/off-delay time selections
- Extra thick 1-in., R 4.2 high-density insulation
- Tested for condensate disposal at conditions much more severe than those required by ARI
- Sweat connections
- Bi-flow hard shut-off TXV
- Multiple electrical entry
- · Primary and secondary drain connections with brass inserts
- Inspection plate on A-coil models
- 1-1/2 5 ton application
- HUD approved for manufactured housing
- Replaceable 5-amp blade-type auto fuse protects against transformer secondary short
- 40 va, 208/230-v transformer
- All models listed with UL, c-UL, ARI, and RADCO
- Independent fan only selections

### MODEL NUMBER NOMENCLATURE







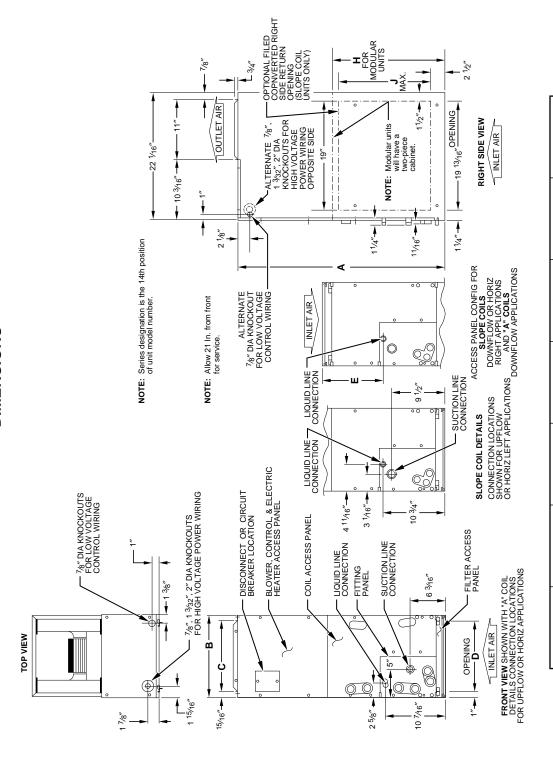






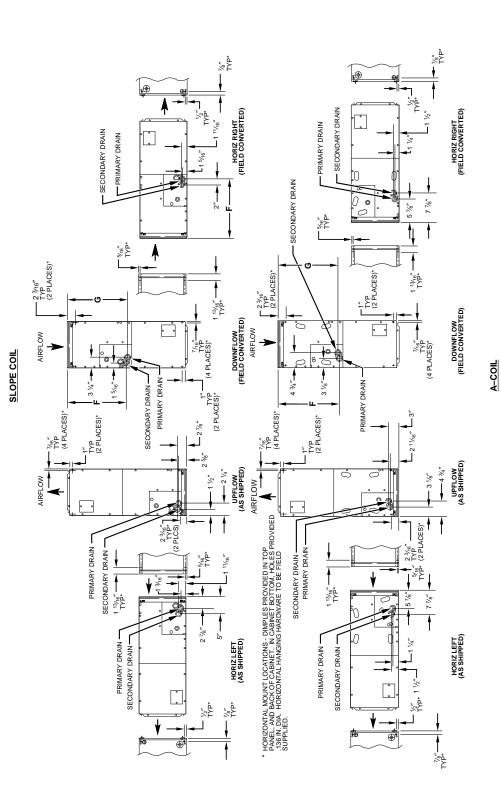
REGISTRATION CERTIFICATION APPLIES ONLY WHEN THE COMPLETE SYSTEM IS LISTED WITH ARI.

### **DIMENSIONS**



		∢	n	د	a	п
LIND	SIZE	ln.	'n.	.ul	·uj	'n.
	100	47-5/8	17-5/8	15-3/4	15-5/8	15-3/8
	002	42-11/16	17-5/8	15-3/4	15-5/8	10-3/4
FK4C	003	53-7/16	21-1/8	19-1/4	19-1/8	19-3/16
	900	53-7/16	21-1/8	19-1/4	19-1/8	19-1/2
	900	59-3/16	24-11/16	22-3/4	22-11/16	25-1/4

## **DIMENSIONS Continued**



		L	Ø	I	7	COIL CONFIGURATION	GURATION	SHIPPING	
UNIT	SIZE	ln.	ln.	ln.	ln.	SLOPE	"A"	qT	
	100	23-1/8	23-5/8	I	17	Yes	I	115	_
	002	18-9/16	18-1/4	I	I	I	Yes	130	_
FK4C	003	26-15/16	27-1/2	I	19	Yes	I	149	
	900	27-1/4	26-15/16	-	1	-	Yes	191	
	900	32-15/16	32-2/8	34-1/16		_	Yes	202	_

### **SPECIFICATIONS**

### **MODEL FK4C**

SIZE	001	002	003	005	006*
SHIPPING WEIGHT (Lb)	117	130	149	167	202
REFRIGERANT			R-22		
Refr. Metering Device			TXV		
Size	3 Ton	3 Ton	5 Ton	5 Ton	5 Ton
COIL					
Type	Slope	A	Slope	A	A
Rows - Fins/In.			3 - 14.5		
Face Area (sq-ft)	2.97	3.46	3.46	5.93	7.42
FAN					
Air Discharge		U	pflow, Downflow, Horizon	tal	
CFM (Nominal Clg/Htg)	525 / 470 700 / 630 875 / 785 1050 / 945	525 / 470 700 / 630 875 / 785 1050 / 945	700 / 630 875 / 785 1050 / 945 1225 / 1100	875 / 785 1050 / 945 1225 / 1100 1400 / 1260	1050 / 945 1225 / 1100 1400 / 1260 1750 / 1575
MOTOR HP (ECM)	1/2	1/2	1/2	1/2	3/4
FILTER	21-1/2 x 16-3/8	21-1/2 x 16-3/8	21-1/2 x 19-7/8	21-1/2 x 19-7/8	21-1/2 x 23-5/16

<sup>\*</sup> Modular Units † Fan coil units with TXV must have a start capacitor and relay for single-phase outdoor (non-scroll) units.

### PERFORMANCE DATA FK4C ADVANCED FAN COIL AIRFLOW DELIVERY CHART

				OPERATING MO	DDE—COOLING			
		Single	-Speed		Two-Speed	Application		]
		Applie		High	Speed	Low	Speed	
UNIT SIZE	OUTDOOR UNIT CAPACITY	Nominal A/C Cooling	A/C Cooling Dehumidify	Nominal A/C Cooling	A/C Cooling Dehumifidy	Nominal A/C Cooling	A/C Cooling Dehumidify	FAN ONLY Lo/Med/Hi
001	018 024 030 036	525 700 875 1050	420 560 700 840		— — — 880	— — — 680		350 / 350 / 525 350 / 455 / 700 440 / 570 / 875 525 / 680 / 1050
002	018 024 030 036	525 700 875 1050	420 560 700 840	   1100	— — — 880	— — — 680	— — — 545	350 / 350 / 525 350 / 455 / 700 440 / 570 / 875 525 / 680 / 1050
003	024 030 036 042	700 875 1050 1225	560 700 840 980	 1100 	 880 	  	  545 	415 / 455 / 700 440 / 570 / 875 525 / 680 / 1050 610 / 795 / 1225
005	030 036 042 048	875 1050 1225 1400	700 840 980 1120	1100 — 1470	880 — 1175	680 — 910	 545  725	440 / 570 / 875 525 / 680 / 1050 610 / 795 / 1225 700 / 910 / 1400
006	036 042 048 060	1050 1225 1400 1750	840 980 1120 1400	1100 — 1470 1835	880 — 1175 1470	745 — 995 1240	595 — 795 995	525 / 745 / 1050 610 / 870 / 1225 700 / 995 / 1400 875 / 1240 / 1750

- NOTE: 1. The above airflows result with the AC/HP CFM ADJUST select jumper set on NOM.
  - Air flow can be adjusted +15% or -10% by selecting HI or LO respectively for all modes except fan only.
     Dry coil at 230 volts and with 10-kw heater and filter installed.
     Airflows shown are at standard air conditions.

### FK4C ADVANCED FAN COIL AIRFLOW DELIVERY CHART

			OPERAT	ING MODE—HE	AT PUMP ONLY	HEATING		
		Single	-Speed		Two-Speed	Application		1
			cation	High	Speed	Low S	Speed	
UNIT SIZE	OUTDOOR UNIT CAPACITY	Heat Pump Comfort	Heat Pump Efficiency	Heat Pump Comfort	Heat Pump Efficiency	Heat Pump Comfort	Heat Pump Efficiency	FAN ONLY Lo/Med/Hi
001	018 024 030 036	470 630 785 945	525 700 875 1050	— — — 990		— — — 615	— — — 680	350 / 350 / 470 350 / 410 / 630 440 / 510 / 785 525 / 615 / 945
002	018 024 030 036	470 630 785 945	525 700 875 1050	— — — 990	   1100	— — — 615	— — — 680	350 / 350 / 470 350 / 410 / 630 440 / 510 / 785 525 / 615 / 945
003	024 030 036 042	630 785 945 1100	700 875 1050 1225	990 —	1100 —	— — 615 —	— — 680 —	415 / 415 / 630 440 / 510 / 785 525 / 615 / 945 610 / 715 / 1100
005	030 036 042 048	785 945 1100 1260	875 1050 1225 1400	990 — 1320	1100 — 1470	615 — 820	680 — 910	440 / 510 / 785 525 / 615 / 945 610 / 715 / 1100 700 / 820 / 1260
006	036 042 048 060	945 1100 1260 1575	1050 1225 1400 1750	990 — 1325 1655	1100 — 1470 1835	670 — 895 1120	745 — 995 1240	540 / 670 / 945 610 / 780 / 1100 700 / 895 / 1260 875 / 1120 / 1575

- NOTE: 1. The above airflows result with the AC/HP CFM ADJUST select jumper set on NOM.
  - The above allowed seeds with the Activity Aboust select jumper set of the adjusted +15% or -10% by selecting HI or LO respectively.
     Dry coil at 230 volts and with 10-kw heater and filter installed.
     Airflows shown are at standard air conditions.

### **PERFORMANCE DATA Continued** AIRFLOW DELIVERY CHART (CFM)—ELECTRIC HEATING MODES

	OUTDOOR					ELEC <sup>-</sup>	TRIC HEA	TER KW R	ANGE				
UNIT	UNIT CAPACITY		0–5			0–10			0–15			0–20	
SIZE	BtuH	Lo	Nom	Hi	Lo	Nom	Hi	Lo	Nom	Hi	Lo	Nom	Hi
001, 002	18,000 24,000 30,000 36,000	625 650 815 980	625 725 905 1085	625 835 1040 1250	675 — — 980	675 725 905 1085	675 835 1040 1250	— 875 900 980	— 875 900 1085	— 1040 1250	— 1100 1100	— 1100 1100	— 1100 1250
003	24,000 30,000 36,000 42,000	675 815 980 1140	725 905 1085 1270	835 1040 1250 1460	875 875 980 1140	875 905 1085 1270	875 1040 1250 1460	— 1100 1100 1140	 1100 1100 1270	— 1100 1250 1460	— 1225 1225	 1225 1270	— 1250 1460

	OUTDOOR					ELEC	TRIC HEA	TER KW R	ANGE				
UNIT	UNIT CAPACITY		0–10			0–15			0–20			0-30	
SIZE	BtuH	Lo	Nom	Hi	Lo	Nom	Hi	Lo	Nom	Hi	Lo	Nom	Hi
005	30,000 36,000 42,000 48,000	975 980 1140 1305	975 1085 1270 1450	1040 1250 1460 1665	1100 1100 1140 1305	1100 1100 1270 1450	1100 1250 1460 1665	— 1250 1250 1305	— 1250 1270 1450	— 1250 1460 1665	— 1500 1500	— 1500 1500	— 1500 1665
006	36,000 42,000 48,000 60,000	1100 1140 1305 1630	1100 1270 1450 1810	1250 1460 1665 2085	1350 1350 1350 1630	1350 1350 1450 1810	1350 1460 1665 2085	— 1525 1525 1630	— 1525 1525 1810	— 1525 1665 2085	— 1750 1750	— 1750 1810	— 1750 2085

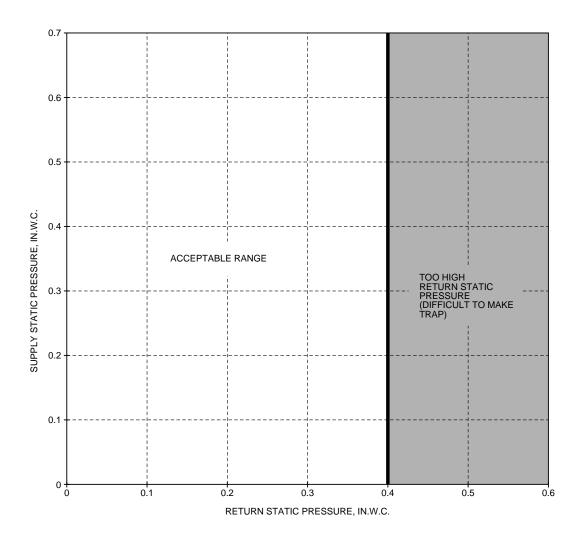
Where dash (—) appears indicates airflow not recommended for heater/system size.  $\textbf{NOTE:} \quad \text{LO, NOM and HI refer to the AC/HP CFM ADJUST selection.}$ 

### MINIMUM CFM FOR ELECTRIC HEATER APPLICATION

				CFM		
	HEAT PUMP UNIT			Heater Size KW		
UNIT SIZE	SIZE	5	8, 9, 10	15	18, 20	24, 30
001, 002	Heater Only 018 024 030 036	625 625 650 800 970	625 625 725 875 970	725 — 875 875 970	875 — — 1040 1040	= = =
003	Heater Only 024 030 036 042	675 675 800 975 1125	700 875 875 975 1125	1050 1050 1100 1100 1100 1125	1050 — — 1225 1225	_ _ _ _
005	Heater Only 030 036 042 048	675 800 975 1125 1305	700 875 975 1125 1305	1050 1100 1100 1100 1125 1305	1050 — 1225 1225 1305	1400 — — — — 1400
006	Heater Only 036 042 048 060	1050 1100 1125 1300 1625	1050 1100 1125 1300 1625	1050 1350 1350 1350 1350 1625	1050 1350 1350 1350 1465 1750	1750 — — 1750 1750

NOTE: Heater Only—Air conditioner with electric heater application.
These airflows are the minimum acceptable air flows as U.L. listed.

Actual airflow delivered will be per the airflow delivery chart for Electric Heating Modes.



A96052

### **Acceptable Duct Conditions**

For satisfactory operation (specifically making dry secondary trap), subject fan coils must be installed with duct systems which fall within the "Acceptable Range" illustrated above.

The airflow performance charts for the FK4C fan coil depict nominal airflow delivery for heating and cooling mode operation versus duct system static pressure drop. Cooling mode operation is shown as solid vertical lines for all 4 system size selections. Heating mode operation for the 4 system size selections are shown as dashed vertical lines.

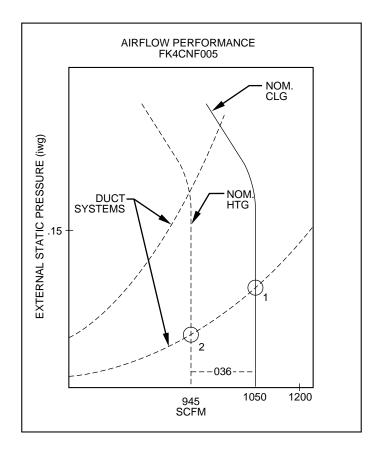
The dotted curved lines are static pres-

sure drop characteristics for several fixed-duct systems. These lines can be used to predict the system static pressure drop at any airflow given the actual drop at 1 known point.

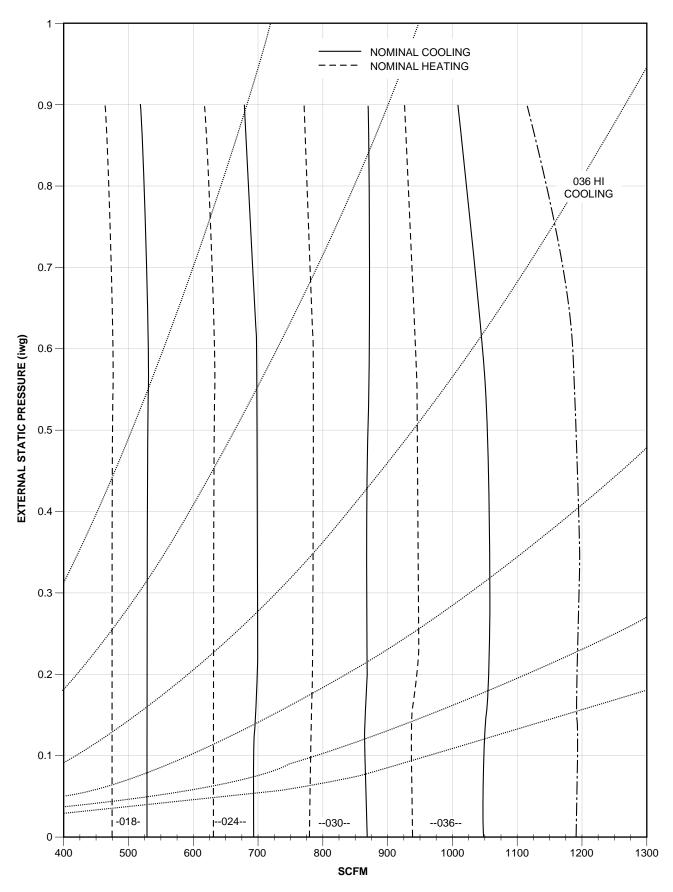
For example, a duct system is designed for 0.15 inches water gage (iwg) drop at 1200 CFM. The FK4CNF005 operating at nominal cooling airflow would deliver 1050 CFM with a duct system drop of

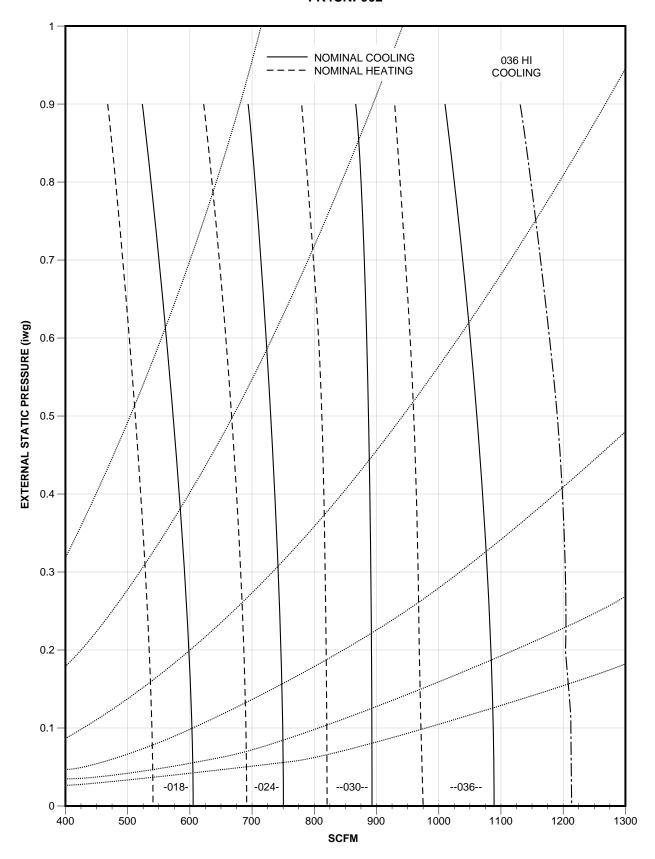
0.11 iwg. (See point 1.) The FK4CNF005 operating at nominal heating airflow would deliver 945 CFM with a duct system drop of 0.09 iwg. (See point 2.)

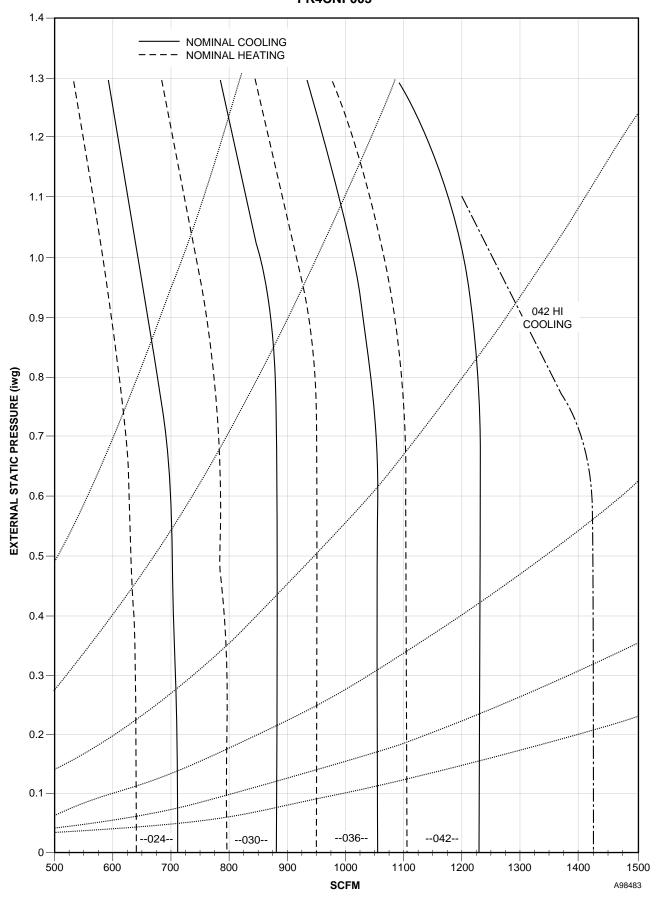
This example is but one of many possible duct system designs. The FK4CNF005 will deliver the above airflows against much higher static pressures.

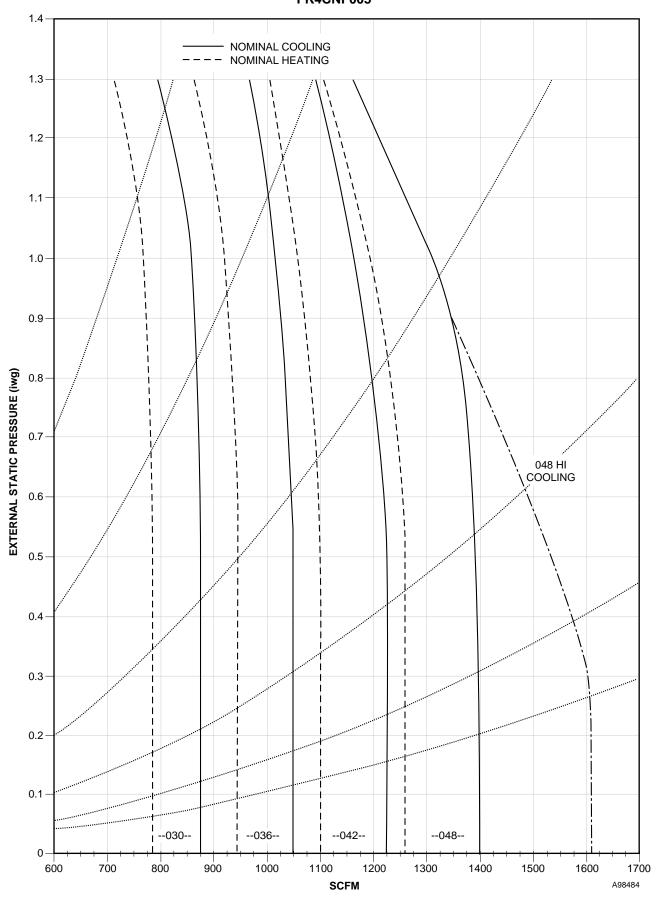


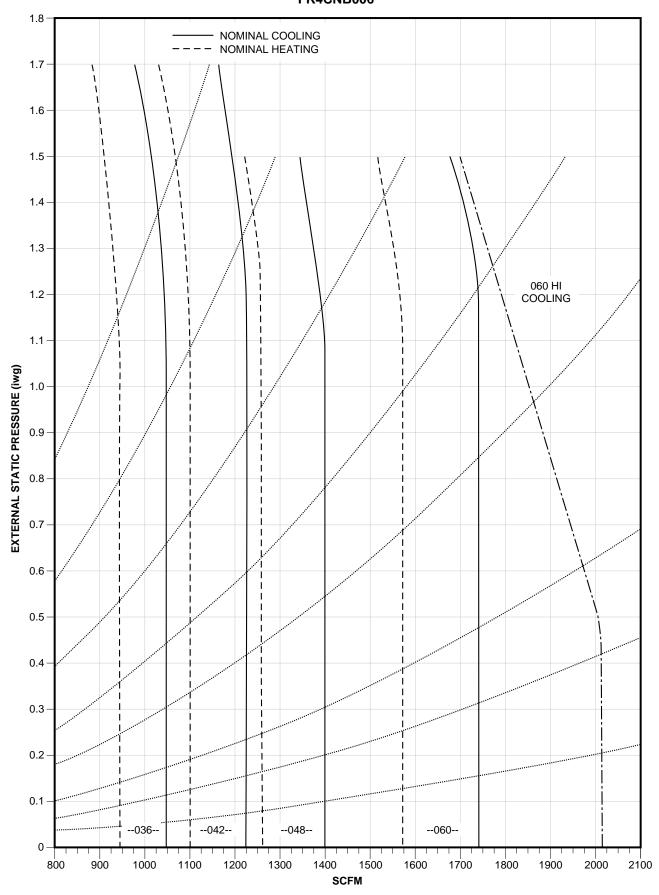
A95396











### PERFORMANCE DATA Continued COOLING CAPACITIES (MBH)

						C	OIL RE	FRIGER	ANT TEN	/IPERAT	URE (°F	)*				
	EVAPORATOR		35			40			45		`	50			55	
UNIT	AIR Cfm					Evapoi	rator Air	— Ente	ring Wet	t-Bulb Te	mperat	ure (°F)				
SIZE	BF	72	67	62	72	67	62	72	67	62	72	67	62	72	67	62
	600	43	34	27	38	30	23	33	25	19	28	20	14	22	14	12
	0.03	19	20	21	17	18	19	15	16	16	13	14	13	11	11	12
	800	52	42	34	46	37	28	40	30	22	33	24	17	26	17	14
	0.05	24	26	27	22	23	24	19	20	21	16	17	17	14	15	14
001	900	56	46	37	50	40	31	44	33	24	36	26	19	28	18	15
001	0.06	26	28	30	24	25	27	21	22	23	18	19	19	15	16	15
	1100	64	52	42	57	45	35	49	38	28	41	29	22	32	21	18
	0.07	30	33	35	27	29	31	24	26	27	21	23	22	17	19	18
	1300	70	57	46	62	50	39	54	42	31	45	33	25	35	23	20
	0.09	32	36	39	29	33	35	26	29	31	23	26	25	19	21	20
	500	40	32	26	36	28	22	32	24	18	27	19	14	21	13	11
	0.04	18	18	19	16	16	17	14	14	15	12	12	13	10	10	11
	650	50	40	32	45	36	27	39	30	22	33	24	18	26	17	14
	0.07	21	22	23	19	20	21	16	17	18	14	15	16	12	13	14
002	875	58	49	38	53	42	32	46	35	27	39	28	22	31	20	18
002	0.10	24	26	28	22	24	25	19	21	22	17	19	19	15	16	18
	1000	62	51	41	56	45	35	50	38	29	42	30	24	33	22	20
	0.11	26	28	31	23	26	28	21	23	25	18	20	21	16	18	20
	1250	67	55	45	61	49	39	54	42	33	46	34	28	37	25	24
	0.13	29	33	36	27	30	33	24	27	30	22	24	26	19	21	24
	800	56	46	36	50	40	31	44	34	25	37	27	19	29	19	16
	0.04	27	29	30	24	26	27	21	22	23	18	19	19	15	16	16
	1000	68	56	44	61	48	37	53	40	30	44	31	23	34	22	19
	0.05	31	34	36	28	30	32	25	27	28	21	23	23	18	19	19
003	1200	75	62	50	68	54	42	59	45	34	49	35	27	38	25	22
	0.07	35	38	41	32	34	37	28	31	32	24	26	27	20	22	22
	1350	80	66	53	72	58	45	63	48	36	53	38	30	41	27	24
	0.08	37	41	44	34	37	40	30	33	35	26	29	30	22	24	24
	1530	85	70	57	77	62	48	68	51	39	57	40	32	44	29	26
	0.09	39	44	48	36	40	43	32	36	38	28	31	32	24	26	26
	750	61	49	39	55	43	33	48	37	27	41	29	20	33	21	17
	0.04	27	27	28	24	25	25	21	22	22	18	18	18	15	15	15
	950	74	60	48	67	53	40	59	45	33	50	35	25	39	24	21
	0.06	32	34 72	35 57	29 79	30	31 48	25	26	27	22	23 41	23	18	18 29	19
005	1150	89				63		69	52	38	58		31	44		25
	0.07 1500	37 103	39 84	41 66	33 92	35 73	36 56	29 81	31 61	32 46	25 67	26 48	27 39	20 52	22 34	22 31
	0.10	43	46	49	38	41	44	34	37	39	29	32	33	25	27	27
	1700	110	89	71	99	78	60	86	65	49	72	51	42	56	37	35
	0.11	45	50	53	41	45	48	36	39	49	31	34	36	27	29	30
	1050	77	62	50	69	55	43	61	47	35	52	38	27	41	27	22
	0.01	34	36	37	31	32	33	27	28	29	23	25	24	20	20	20
	1300	100	82	65	90	71	55	79	60	45	66	47	37	49	32	27
	0.02	42	45	47	37	40	42	33	35	37	29	31	32	23	25	24
	1750	117	96	77	106	84	65	93	71	53	78	56	46	60	40	34
006	0.04	48	53	57	44	48	52	39	43	46	34	38	39	29	31	31
	2050	126	103	83	114	91	71	99	76	59	84	60	50	65	44	39
	0.05	52	58	63	48	53	57	43	47	51	37	42	43	33	35	35
	2300	132	108	87	119	95	75	105	80	63	88	63	54	70	47	42
	0.06	55	62	68	50	57	61	45	51	54	40	45	46	35	39	38
	0.00	33	02	00	50	31	01	40	01	J-4	40	40	40	55	JJ	- 50

See notes on page 16.

Sensible Heat Capacity (1000 Btuh)
Gross Cooling Capacity (1000 Btuh)
BF—Bypass Factor
<ol> <li>NOTES:</li> <li>Net capacities shown include a deduction for evaporator fan motor heat</li> <li>Contact manufacturer for cooling capacities at conditions other than shown in table.</li> <li>Formulas:</li> </ol>
Leaving db = entering db — sensible heat cap.  1.09 x CFM Leaving wb = wb corresponding to enthalpy of air leaving coil (h <sub>lwh</sub> )
h <sub>Iwb</sub> = h <sub>ewb</sub> — total capacity (Btuh)
4.5 x CFM

\* Saturated suction leaving evaporator coil.

where  $h_{\text{ewb}}$  = enthalpy of air entering coil.

4. Direct interpolation is permissible. Do not extrapolate.
5. SHC is based on 80°F db temperature of air entering coil. Below 80°F subtract (corr factor x CFM) from SHC.
Above 80°F db, add (corr factor x CFM) to SHC.

### SHC CORRECTION FACTOR

		ENTER	ING AIR	DRY-BU	LB TEMI	P (°F)
	79	78	77	76	75	Under 75
BYPASS	81	82	83	84	85	Over 85
						•
FACTOR			Corre	ction Fac	ctor	

Interpolation is permissible.

Correction Factor =  $1.09 \times (1 - BF) \times (db - 80)$ 

### **PERFORMANCE DATA Continued ESTIMATED SOUND POWER LEVEL (dBA)\***

UNIT		CONDITIONS				OCTAVE BA	ND CENTER I	REQUENCY		
SIZE	CFM	ESP	RPM	63	125	250	500	1000	2000	4000
001	400 600 800 1000 1200 1400	0.25 0.25 0.25 0.25 0.25 0.25	680 750 845 955 1080 1210	61 63 64 65 66 66	57 59 60 61 62 62	53 55 56 57 58 58	52 54 55 56 55 55	48 50 51 52 55 55	46 48 49 50 51	42 44 45 46 47 47
002	400 600 800 1000 1200 1400	0.25 0.25 0.25 0.25 0.25 0.25	680 750 845 955 1080 1210	61 63 64 65 66 66	57 59 60 61 62 62	53 55 56 57 58 58	52 54 55 56 55 55	48 50 51 52 55 55	46 48 49 50 51 51	42 44 45 46 47 47
003	400 600 800 1000 1200 1400 1600	0.25 0.25 0.25 0.25 0.25 0.25 0.25	555 600 660 725 800 885 975	61 63 64 65 66 66	57 59 60 61 62 62 63	53 55 56 57 58 58 58	52 54 55 56 57 57 57	48 50 51 52 53 53 56	46 48 49 50 51 51 52	42 44 45 46 47 47 48
005	400 600 800 1000 1200 1400 1600	0.25 0.25 0.25 0.25 0.25 0.25 0.25	555 600 660 725 800 885 975	61 63 64 65 66 66	57 59 60 61 62 62 63	53 55 56 57 58 58 59	52 54 55 56 57 57 56	48 50 51 52 53 53 56	46 48 49 50 51 51 52	42 44 45 46 47 47 48
006	600 800 1000 1200 1400 1600 1800 2000 2150	0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	575 610 655 720 785 860 935 1020 1090	63 64 65 66 66 67 68 68 68	59 60 61 62 62 63 64 64 64	55 56 57 58 58 59 60 60	54 55 56 57 57 58 57 57 57	50 51 52 53 53 54 57 57	48 49 50 51 51 52 53 53	44 45 46 47 47 48 49 49

<sup>\*</sup> Estimated sound power levels have been derived using the method described in the 1987 ASHRAE Systems & Applications Handbook, chapter 52, p. 52.7.

CFM — Cubic Ft per Minute ESP — External Static Pressure RPM — Revolutions per Minute

### **PERFORMANCE DATA Continued**

### **AIRFLOW PERFORMANCE CORRECTION FACTORS**

The FK4C Airflow Performance table was developed using fan coils with 10-kw electric heaters (2 elements) in the units. For fan coils with heaters made up of a different number of elements, the external available static at a given CFM from the table may be corrected by adding or subtracting pressure. Use table for correction.

		STATIC PRE CORRECTIO	
HEATER KW	ELEMENTS	Sizes 001-005	Size 006
0	0	+.02	+.03
5	1	+.01	+.02
8, 10	2	0	0
9, 15	3	02	03
20	4	04	06
18, 24, 30	6	06	10

### FILTER STATIC PRESSURE DROP (In. wc)

MODEL					CFM				
FK4C	400	600	800	1000	1200	1400	1600	1800	2000
001	0.020	0.044	0.048	0.072	0.100	_	_	_	_
002	0.020	0.044	0.048	0.072	0.100	_	_	_	_
003	_	0.020	0.035	0.051	0.070	0.092	_	_	_
005	_	_	0.035	0.051	0.070	0.092	0.120	_	_
006	_	_		_	0.070	0.092	0.120	0.152	0.187

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

MODEL						CFM					
FK4C	600	700	800	900	1000	1100	1200	1300	1400	1500	1600
001	0.031	0.040	0.051	0.063	0.073	0.081	0.092	_	_	_	_
002	0.012	0.016	0.022	0.028	0.034	0.040	0.049	_	_	_	_
003	_	0.026	0.034	0.042	0.052	0.063	0.075	0.083	0.091	0.098	0.110
005	_	0.006	0.008	0.010	0.012	0.015	0.017	0.020	0.023	0.027	0.030
			•		•	CFM	•		•	•	
	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100
006	0.013	0.016	0.018	0.020	0.023	0.027	0.030	0.034	0.039	0.044	0.048

**NOTE:** Subtract the above pressure drop corrections from unit airflow data when that component or condition is used. The remaining external static pressure will be available for the duct system.

### **ELECTRICAL DATA UNITS WITHOUT ELECTRIC HEATER**

			MIN	BRANCH	CIRCUIT
UNIT SIZE	VOLTS-PHASE	FLA	CKT AMPS	Min Wire Size Awg*	Fuse Amps
001	208/230-1	4.3	5.4	14	15
002	208/230-1	4.3	5.4	14	15
003	208/230-1	4.3	5.4	14	15
005	208/230-1	4.3	5.4	14	15
006	208/230-1	6.8	8.5	14	15

<sup>\*</sup> Use copper wire only to connect unit. If other than uncoated (nonplated) 75°F ambient, copper wire (solid wire for 10 AWG and smaller, stranded wire for larger than 10 AWG) is used consult applicable tables of the National Electric Code (ANSI/NFPA 70).

NOTE: If branch circuit wire length exceeds 100 ft, consult NEC 210-19a to determine maximum wire length. Use 2% voltage drop.

FLA — Full Load Amps

### **ACCESSORY ELECTRIC HEATERS ELECTRIC HEATERS**

HEAT PART		KW @ 240V	VOLTS/PHASE	KW/ STAGE	INTERNAL CIRCUIT PROTECTION	FAN COIL SIZE USED WITH	HEATING CAP. @ 230V‡	INTELLIGENT HEAT CAPABLE††
KFAEH0201N05	KFCEH0501N05	5	230/1	5	None	All	15,700	No
KFAEH0301N08	KFCEH0801N08	8	230/1	8	None	All	25,100	No
KFAEH2501N09 I	KFCEH1401N09	9	230/1*	3, 6	None	All	28,300	Yes
KFAEH0401N10	KFCEH0901N10	10	230/1	10	None	All	31,400	No
KFAEH2601F15	KFCEH1501F15	15	230/1	5, 10	Fuses**	All	47,100	Yes
KFAEH0601F20	KFCEH1801F20	20	230/1	10, 10	Fuses**	All	62,800	Yes (KFCEH)
KFAEH0801315	KFCEH1601315	15	230/3	5, 10	None	All	47,100	No
KFAEH0901318	KFCEH2001318	18	230/3	6, 6, 6	None	003, 005, 006	56,500	No
KFAEH1001F24	KFCEH2101F24	24	230/3†	8, 8, 8	Fuses	005, 006	78,500	Yes
KFAEH1101F30	KFCEH2201F30	30	230/3†	10, 10, 10	Fuses	005, 006	94,200	Yes
KFAEH1301C05	KFCEH0601C05	5	230/1	5	Ckt Bkr	All	15,700	No
KFAEH1401C08	KFCEH1001C08	8	230/1	8	Ckt Bkr	All	25,100	No
KFAEH1501C10	KFCEH1101C10	10	230/1	10	Ckt Bkr	All	31,400	No
KFAEH2801C15	KFCEH1701C15	15	230/1	5, 10	Ckt Bkr	All	47,100	Yes
KFAEH1701C20	KFCEH1901C20	20	230/1	10, 10	Ckt Bkr	All	62,800	Yes (KFCEH)

<sup>\*</sup> KFAEH2501N09 is field convertable to 3 phase.

### **ELECTRIC HEATER INTERNAL PROTECTION**

HEATER KW	PHASE	FUSES QTY/SIZE	CKT BKR QTY/SIZE**
5	1	_	1/60
8	1	_	1/60
9	1/3*	_	<del></del>
10	1	_	1/60
15	1	2/30, 2/60	2/60
15	3	_	_
18	3	_	_
20	1	4/60	2/60
24	3/1	6/60	_
30	3/1	6/60	<del></del>

KFCEH1401N09 is single phase only.

These heaters field convertable to single phase.

Blower motor heat not included.
 Single point and included.

<sup>\*\*</sup> Single point wiring kit required for these heaters in Canada.

†† Heaters designated with yes are Intelligent Heat capable when used with corporate 2-speed programmable thermostat (TSTATCCP2S01-A), or Thermidistat<sup>™</sup> Control (TSTATCCPRH01-B).

<sup>\*\*</sup> All circuit breakers are 2 pole.

## **ELECTRIC HEATER ELECTRICAL DATA**

HATTER H																BRAN	BRANCH CIRCUIT	_						
CHACE ENOMING         STATE INTOLLING         Single Control         Data Characteries         Da	HEA	TER	Ϋ́			AL T	HEATEI 208/;	R AMPS 230V		MIN ,	AMPACITY B/230V**		MIN WIF	RE SIZE (AV 8/230V††	VG)	MIN G	JD WIRE SI; 08/230V	J.	MAX FUSE	/CKT BKR / )8/230V	AMPS	MAX 1 208	VIRE LENG 230V (FT)‡	<b>∓</b>
4.00         2.00         Chicali         1.12         3.14         Gindii         1.12         1.14         1.12         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14         1.14	AR.				PROTECT		ale ale	Dual Circu		Single	Dual Cit		Single	Dual Cir		Single	Dual Cir	cuit	Single	Dual Circ	cuit	Single	Dual Ci	rcuit
KFCEHOLOUNGS         3         1         None         10972          159473          1212          1212          1212          1212          1212          1212          1212          1212          1212          1212          1212          1212          1212          1212          1212          1212          1212          1212          1212          1212          1212          1212          1212          1212         1212          1212         1212          1212         1212         1212         1212         1212         1212         1212         1212         1212         1212         1212         1212         1212         1212         1212         1212         1212         1212         1212         1212         1212         1212         1212         1212         1212         1212         1212         1212         1212         1212         1212         1212         1212         1212         1212			240v 2	08v		Circ	Щ				L1,L2		Circuit	L1,L2		Circuit	L1,L2	L3,L4	Circuit		L3,L4	Circuit	L1,L2	L3,L4
KFCEHONINGING         S         1         None         181/200         —         Cooked         —         01010         —         0         —         0         —         0         —         0         —         0         —         0         —         0         —         0         —         0         —         0         —         0         —         0         —         0         —         0         —         0         —         0         —         0         —         0         —         0         —         0         —         0         —         0         —         0         —         0         —         0         —         0         —         0         —         0         0         —         0         —         0         —         0         —         0         —         0         —         0         —         0         —         0         —         0         —         0         —         0         —         0         —         0         —         0         —         0         —         0         —         0         —         0         —         0         — <t< td=""><td>KFAEH0101N03</td><td>KFCEH0401N03</td><td>Н</td><td>2.3</td><td>None</td><td></td><td></td><td></td><td>_</td><td>5.9/17.3</td><td> </td><td>1</td><td>12/12</td><td> </td><td> </td><td>12/12</td><td>1</td><td>-</td><td>20/20</td><td>-</td><td>-</td><td>89/29</td><td>-</td><td>ı</td></t<>	KFAEH0101N03	KFCEH0401N03	Н	2.3	None				_	5.9/17.3		1	12/12			12/12	1	-	20/20	-	-	89/29	-	ı
KCCEHORONOGS         6         1         None         141720          12234          140          140          140          140          140          140          140          140          140          140          140          140          140          140          140          140          140          140          140          140          140          140          140          140          140          140          140          140          140          140          140          140          140          140          140          140          140          140          140          140          140          140          140          140          140          1	KFAEH0201N051	KFCEH0501N051		3.8	None					3.0/28.4	1	1	10/10	1	1	10/10	1	1	30/30	1	1	99/99	1	1
KYCCHINGNOTION 1         5         3.8         1         CHRR         18,120.0         —         41,228.5         —         10,10         —         10,10         —         93,93         —         666         —         9         —         4         6         —         10,10         —         35,55         —         9         —         6         —         4         5         3         4         1         CALR         18,120.0         —         4,144.8         —         6         —         4         55.5         —         4         6         —         4         56.0         —         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4	KFAEH0201N052	KFCEH0501N052		3.8	None					1.2/33.5	1	1	8/8	1	1	10/10	1	1	35/35	1	1	88/98	1	ı
KYCCHROROTOGE         6         1         CMB         -         447/485         -         -         447/485         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -<	KFAEH1301C051	KFCEH0601C051		· ·						3.0/28.4	1	ı	10/10	ı	ı	10/10	ı	ı	30/30	ı	ı	99/99	ı	ı
KFCEH0801NOB         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         7         CMBK         28.932         6         4         4.456         6         6         6         6         6         6         6         6         7         6         6         7         6         6         7         6         6         7         6         6         7         6         6         7         6         6         7         6         7         6         7         6         7         6         7         6         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7 <td>KFAEH1301C052</td> <td>KFCEH0601C052</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1.2/33.5</td> <td>1</td> <td>ı</td> <td>8/8</td> <td>ı</td> <td>ı</td> <td>10/10</td> <td>ı</td> <td>ı</td> <td>35/35</td> <td>ı</td> <td>ı</td> <td>88/98</td> <td>ı</td> <td>ı</td>	KFAEH1301C052	KFCEH0601C052								1.2/33.5	1	ı	8/8	ı	ı	10/10	ı	ı	35/35	ı	ı	88/98	ı	ı
KFCEH10TION         8         1         CAL BK         28,932.0          44,748.5          44,748.5          44,748.5          44,748.5          44,748.5          44,748.5          44,748.5          46,553.5          46,553.5          46,553.5          46,553.5          46,553.5          46,553.5          46,553.5          46,553.5          46,553.5          46,553.5          46,553.5          46,553.5          46,553.5          46,553.5          40,70          40,70          40,70          40,70          40,70          40,70          40,70          40,70          40,70          40,70          40,70          40,70          40,70          40,70          40,70          40,70          40,70          40,70          40,70          40,70          40,70          40,70	KFAEH0301N08	KFCEH0801N08							_	1.7/48.5	1	1	8/8	1	1	10/10	1	1	45/50	1	1	09/69	1	ı
KFCEH1011NO9***         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         7         6         7         6         7         6         7         6         7         6         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7	KFAEH1401C08	KFCEH1001C08		3.0	Ckt Bk				-	1.7/48.5	1	1	8/8	1	ı	10/10	1	1	45/50	1	1	29/60	1	ı
KFCEHDOTIVITO         6.8         9         6.8         9         0.01         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0	7 A F L L L L L L L L L L L L L L L L L L			3.8	None				_	3.5/53.5	1	ı	9/8	ı	ı	10/10	ı	ı	20/60	ı	ı	54/87	ı	ı
KFCEHURDINIU         10         Anne         36.240.0         —         53.868.6         —         6.6         —         10/10         —         6.06         —         9.0         —         9.0         —         9.0         —         9.0         —         9.0         —         9.0         —         9.0         —         9.0         —         9.0         —         9.0         —         9.0         —         9.0         —         9.0         —         9.0         —         9.0         —         9.0         —         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0 <td>N ALI [230   N 07+</td> <td>·</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2.0/34.5</td> <td>1</td> <td>1</td> <td>8/8</td> <td>1</td> <td>1</td> <td>10/10</td> <td>1</td> <td>I</td> <td>35/35</td> <td>1</td> <td>1</td> <td>83/85</td> <td>1</td> <td>I</td>	N ALI [230   N 07+	·								2.0/34.5	1	1	8/8	1	1	10/10	1	I	35/35	1	1	83/85	1	I
KFCEH10TICL         10         CKI BK         1         CKI BK         3.848.63          6.66           10/10          10/10          10/10          10/10          10/10          10/10          10/10          10/10          10/10          10/10          10/10          10/10          10/10          10/10          10/10          10/10          10/10          10/10          10/10          10/10          10/10          10/10          10/10          10/10          10/10          10/10          10/10          10/10          10/10          10/10          10/10          10/10          10/10          10/10          10/10          10/10          10/10          10/10          10/10          10/10          10/10          10/10	KFAEH0401N10	KFCEH0901N10								3.8/58.5	1	1	9/9	1	1	10/10	1	ı	09/09	1	1	78/80	1	I
KFCEHISOTITION         15         1.4         Fuse         6.4         6.383.4         6.378.4         6.386.5         2.2775.0         44         6.6         10/10         8/8         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10         10/10	KFAEH1501C10	KFCEH1101C10		. 2.7	Ckt Bk		Ĺ			3.8/58.5	1	1	9/9	1	1	10/10	1	1	09/09	1	1	08/82	1	1
KFCEH10701 C15***         15         1.3         1.3         CARIBN         -         58.768.5         2.7725.0         -         6.6         10/10         -         10/10         -         60/60         52/25         -         78/90         -         78/90         -         78/90         -         78/90         -         78/90         -         78/90         -         78/90         -         78/90         -         78/90         -         78/90         -         78/90         -         78/90         -         78/90         -         78/90         -         78/90         -         78/90         -         78/90         -         78/90         -         78/90         -         78/90         -         78/90         -         78/90         -         78/90         -         78/90         -         78/90         -         78/90         -         78/90         -         78/90         -         78/90         -         78/90         -         78/90         -         78/90         -         78/90         -         78/90         -         78/90         -         78/90         -         78/90         -         78/90         -         78/90         -         78/9	KFAEH2601F15***	KFCEH1501F15***					_	740.0 18.	Ė		_	22.7/25.0	4/4	9/9	10/10	8/8	10/10	10/10	06/08	09/09	25/25	68/88	08/82	75/76
KFCEH1601315         15         3         None         31.334.6         -         47.751.8         -         86         -         96         -         1010         -         50/60         -         56/90         -         66/90         -         4         77.751.8         -         47.751.8         -         47.751.8         -         66/7         -         1010         -         60/10         -         66/9         -         66/9         -         66/9         -         66/9         -         66/9         -         66/9         -         66/9         -         66/9         -         66/9         -         66/9         -         66/9         -         66/9         -         66/9         -         66/9         -         66/9         -         66/9         -         66/9         -         66/9         -         66/9         -         66/9         -         66/9         -         66/9         -         66/9         -         66/9         -         66/9         -         66/9         -         66/9         -         66/9         -         66/9         -         66/9         -         66/9         -         66/9         -         66/9 <td>KFAEH2801C15***</td> <td>KFCEH1701C15***</td> <td></td> <td>1.3</td> <td>Ckt Bk</td> <td></td> <td></td> <td>740.0 18.</td> <td>1/20.0</td> <td></td> <td></td> <td>22.7/25.0</td> <td>1</td> <td>9/9</td> <td>10/10</td> <td>1</td> <td>10/10</td> <td>10/10</td> <td>ı</td> <td>09/09</td> <td>25/25</td> <td>1</td> <td>78/80</td> <td>75/76</td>	KFAEH2801C15***	KFCEH1701C15***		1.3	Ckt Bk			740.0 18.	1/20.0			22.7/25.0	1	9/9	10/10	1	10/10	10/10	ı	09/09	25/25	1	78/80	75/76
KFCEH200118         18         3         None         37.8/41.5         -         55.8/60.4         -         6/6         -         -         10/8         -         -         60/70         -         76/77         -         76/77         -         76/77         -         76/70         -         76/77         -         76/70         -         76/77         -         76/70         -         76/77         -         76/70         -         76/70         -         76/70         -         76/70         -         76/70         -         76/70         -         76/70         -         76/70         -         76/70         -         76/70         -         76/70         -         76/70         -         76/70         -         76/70         -         76/70         -         76/70         -         76/70         -         76/70         -         76/70         -         76/70         -         76/70         -         76/70         -         76/70         -         76/70         -         76/70         -         76/70         -         76/70         -         76/70         -         76/70         -         76/70         -         76/70         -	KFAEH0801315	KFCEH1601315					·			7.7/51.8	-	1	9/8	1	1	10/10	-	-	09/09	-	-	06/99	-	1
KFCEHI801Tequired         2         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50         1.50	KFAEH0901318	KFCEH2001318								5.5/60.4	1	ı	9/9	1	1	10/8	1	ı	02/09	ı	ı	76/77	ı	ı
KFCEH1001C20***         20         15.0         1         CMR BK          58.7650          6/6         8/8          10/10          60/60         60/50          78/90          78/90          78/90          78/90          78/90          6/6         8/8          10/10          6/6         0          10/10          10/10          4/8          4/4          4/4           8/8          9/495          9/495          9/495          9/495          9/495          9/495          9/495          9/495          9/495          9/495          9/495          9/495          9/495          9/495          9/495          9/495          9/495          9/495          9/495          9/495          9/495          9/495          9/495          9/495	KFAEH0601F20	KFCEH1801F20***		2.0	Fuse			740.0 36				45.3/50.0	3/2	9/9	8/8	9/8	10/10	10/10	100/110	09/09	20/20	85/109	78/80	29/29
KFCEH2101F24111         4         1         Fuse         50.405.4         -         -         71.277.8         -         4/4         -         -         6         -         6         -         -         4/4         -         -         4/4         -         -         4/4         -         -         4/4         -         -         4/4         -         -         4/4         -         -         4/4         -         -         4/4         -         -         4/4         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	KFAEH1701C20	KFCEH1901C20***		2.0	Ckt Bk		- 36.2		2/40.0	- 5		45.3/50.0	1	9/9	8/8	_	10/10	10/10	1	09/09	20/20	-	78/80	29/29
NUMBER         1         Fuse         86.796.5         -         -         116.91/27.9         -         111         -         -         66         -         -         125/15         -         115/16         -         115/16         -         115/16         -         115/16         -         115/16         -         115/16         -         115/16         -         115/16         -         115/16         -         115/16         -         115/16         -         115/16         -         115/16         -         115/16         -         115/16         -         115/16         -         115/16         -         115/16         -         115/16         -         115/16         -         115/16         -         115/16         -         115/16         -         115/16         -         115/16         -         115/16         -         115/16         -         115/16         -         115/16         -         115/16         -         115/16         -         115/16         -         115/16         -         115/16         -         115/16         -         115/16         -         115/16         -         115/16         -         115/16         -         115/16 <td>VEAEU1001E24+***</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Ċ</td> <td></td> <td></td> <td>1.2/77.8</td> <td>1</td> <td>1</td> <td>4/4</td> <td>1</td> <td>1</td> <td>8/8</td> <td>1</td> <td>I</td> <td>80/80</td> <td>1</td> <td>1</td> <td>94/95</td> <td>1</td> <td>I</td>	VEAEU1001E24+***						Ċ			1.2/77.8	1	1	4/4	1	1	8/8	1	I	80/80	1	1	94/95	1	I
KECEH2201F301*** 30 22.5 3 Fuse 62.669.2 — 6 68.895.0 — 7 86.895.0 — 7 86.895.0 — 7 87 0 — 8 88 0 — 8 80 0 0 0 0 0 0 0 0 0 0 0	N AET 110011 241									5.9/127.9	1	ı	1/1	1	1	9/9	1	-	125/150	-		115/116	_	1
N. CLITACOLL S. 1 Fuse   109.0/120.0 -   -   144.8/158.5 -   -   0/00 -   -   6/6 -   -   150/175 -   -   117/150 -	KFAFH1101F30+***	KECEH2201E30+***								3.8/95.0	ı	ı	3/3	ı	ı	8/8	ı	ı	90/100	ı	ı	86/26	ı	I
	NI AETI TOTI 301	NI CELIZZO II 301		2.5	Fuse					1.8/158.5	1	1	00/0	1	1	9/9	1		150/175	1		117/150	-	ı

# FIELD MULTIPOINT WIRING OF 24-AND 30-KW SINGLE PHASE

HEATER PART NO.	KW	PHASE		HEATER AMPS 208/230V		Σ	IN AMPACITY 208/230V**		MIN	MIN WIRE SIZE (AWG) 208/230V††	(9)	MIN GND WIRE SIZE	MAX FU	MAX FUSE/CKT BKR AMPS 208/230V	AMPS	MA)	IAX WIRE LENGT! 208/230V (FT)##	<b>=</b>
	240V 208V	080	L1,L2	L3,L4	15,L6	L1,L2	L3,L4	12,L6	L1,L2	L3,L4	L5,L6	208/230V	11,12	L3,L4	15,L6	11,12	L3,L4	L5,L6
KFCEH2101F24† 24	24 1	18.0	28.9/32.0	28.9/32.0	28.9/32.0	44.7/48.5	36.2/40.0	36.2/40.0	8/8	8/8	8/8	10/10	45/50	40/40	40/40	09/69	73/73	73/73
KFCEH2201F30† 30 22.5	30 2	1 1	36.2/40.0	36.2/40.0	36.2/40.0	53.8/58.5	45.3/50.0	45.3/50.0	9/9	8/8	8/8	10/10	09/09	20/20	20/20	78/80	69/69	69/69

Field convertible to 1 phase, single or multiple supply circuit.
 # Field convertible to 3 phase.
 \*\* Includes blower motor amps of largest fan coil used with heater.
 \*\* Includes blower motor amps of largest fan coil used with heater.
 \*\* Includes blower motor amps of largest fan coil used with heater.
 \*\* Includes blower motor amps of largest fan coil used with heater.
 \*\* Includes blower motor amps of largest fan coil used with heater.
 \*\* Absolute for a voltage drop not to exceed 2%.
 \*\* Heaters are Intel is an exacted 1 way along wire path between unit and service panel for a voltage drop not to exceed 2%.
 \*\* Heaters are Intel is an exacted 1 way along wire path between unit and service panel for a voltage drop not to exceed 2%.
 \*\*\* Heaters are Intel is an exacted 1 way along wire path between unit and service panel for a voltage drop not to exceed 2%.
 \*\*\* Heaters are Intel is an exception of FV, fan coils and corporate 2-speed programmable thermostat (TSTATXXP2S01-A), or Thermidistat™ Control (TSTATXXPRH01-B).
 \*\* Absolute 1 Absolute 2. For fan coil sizes 042-060 and all FK4C, FV4A sizes.
 \*\* Single circuit application of F15 and F20 heaters requires single-point wiring kit accessory.

### **ACCESSORY LIST**

ITEM	ACCESSORY PART NO.	FAN COIL SIZE USED WITH FK4C
Disconnect Kit	KFADK0101DSC	Cooling controls and heaters through 10-kw
Downflow Conversion Kit (Slope)	KFADC0201SLP	001, 003
Downflow Conversion Kit (A-coil)	KFADC0401ACL	002, 005, 006
Downflow Base Kit	KFACB0201CFB	001, 002
Downflow Base Kit	KFACB0301CFB	003, 005
Downflow Base Kit	KFACB0401CFB	006
Filter Kit (12 Pack)	KFAFK0212MED	001, 002
Filter Kit (12 Pack)	KFAFK0312LRG	003, 005
Filter Kit (12 Pack)	KFAFK0412XXL	006
Single-Point Wiring Kit	KFASP0101SPK	Only with 15- and 20-kw fused heaters
Airflow Sensor Kit (Air Cleaner)	KEAAC0101AAA	All
Air Cleaner Relay Kit	KFAIR0201ACR	All

### ACCESSORY KITS DESCRIPTION SUGGESTED AND REQUIRED USE

### 1. Disconnect Kit

The kit is used to disconnect electrical power to the fan coil so service or maintenance may be performed safely.

SUGGESTED USE: FK4 units for 3- through 10-kw electric resistance heaters and cooling controls.

### 2. Downflow Conversion Kit

Fan coils are shipped from the factory for upflow or horizontal-left applications. Downflow conversion kits provide proper condensate water drainage and support for the coil when used in downflow applications. Separate kits are available for slope coils and A-coils.

REQUIRED USE: This kit must be used whenever FK4 fan coils are used in downflow applications.

### 3. Downflow Base Kit

This kit is designed to provide a 1-in. minimum clearance between unit discharge plenum, ductwork, and combustible materials. It also provides a gap free seal with the floor.

**REQUIRED USE:** This kit must be used whenever FK4 fan coils are used in downflow applications.

### 4. Single-Point Wiring Kit

The single-point wiring kit acts as a jumper between L1 and L3 lugs, and between L2 and L4 lugs. This allows the installer to run 2 heavy-gage, high-voltage wires into the fan coil rather than 4 light-gage, high-voltage wires.

SUGGESTED USE: FK4 fan coils with 15- and 20-kw fused heaters only.

### 5. Air Cleaner Relay

The electronic air cleaner relay ensures the FK4 fan coil and electronic air cleaner work as a system.

REQUIRED USE: This relay is required whenever an electronic air cleaner is used with an FK4 fan coil.

### 6. Airflow Sensor Kit (Air Cleaner)

The airflow sensor kit ensures the FK4C fan coil and electronic air cleaner work as a system.

REQUIRED USE: This kit is required whenever an electronic air cleaner is used with an FK4C fan coil.

### 7. Fan Coil Filter

These filters collect large dust particles from the return air entering the fan coil and prevent them from collecting on the coil. This process helps to keep the coil clean, which increases heat transfer and in turn the efficiency of the system.

SUGGESTED USE: To replace the filters in FK4 fan coils.



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

UNIT MUST BE INSTALLED IN ACCORDANCE WITH INSTALLATION INSTRUCTIONS

Cancels: PDS FK4C.01.3