FY4A, FA4C
Base Series Fan Coil
Sizes 1 1/2 — 5 Ton (018 Thru 060)

Carrier®
Turn to the Experts℠

Product Data

AIR HANDLER TECHNOLOGY AT ITS FINEST

The FY4A and FA4C direct-expansion fan coils are designed to cover a wide range of air handling requirements. They are compact and ready to fit where needed, in the basement, crawlspace, attic, utility room, or closet. The unique cabinet design of these fan coils meet new stringent regulations for cabinet air leakage, a requirement of 2% cabinet leakage rate when tested at 1.0 inches of static pressure.

The FY4A and FA4C units are shipped with a factory-installed hard-shutoff thermostatic expansion valve (TXV) metering device with an internal check valve for reverse flow bi-pass capability. All units come with solid state fan controls, 1-in. thick insulation with R-value of 4.2, super-quiet multispeed motors, and fully-wettable coils. Units can accommodate factory- or field-installed heaters from 3 to 30 kW.

The FY4A design is a residential new construction (RNC) model available for use with Puron®, the environmentally sound refrigerant. It comes with or without factory-installed disconnects. It has a pre-painted (gray) galvanized insulated steel casing, 2-speed PSC motor in the 018 through 036 sizes, and 3-speed PSC motors in the 042 through 060 sizes. ArmorCoat™ provides a tin plating of the indoor coil's copper hairpins. This creates a barrier between the corrosion-causing elements and the coil.

The FA4C has all the same quality features as the FY4A, but is for use with R-22 refrigerant.

STANDARD FEATURES

- Grooved copper tubing
- Lanced sine-wave aluminum fin
- Fully-wettable coil
- High-impact thermoplastic condensate pan
- Primary and secondary drain connections with brass inserts
- Multipoise design for maximum versatility
- Unique cabinet design that meets new stringent regulations for air leakage. Meets requirements of a 2% cabinet leakage rate when tested at 1.0 inches of static pressure.
- Field-installed heater packages from 3-30 kW (fused, circuit breaker, or non-fused)
- Control board with built-in, replaceable 5-amp blade-type auto fuse
- 2-speed motor in 018 through 036 sizes
- 3-speed motor in 042 through 060 sizes
- Cooling controls
- Time-delay relay (TDR)
- Pre-painted galvanized steel cabinet (gray)
- High-density, super thick R-4.2 insulation
- Newly-improved filter rack area - filter door insulation added for an improved air seal
- Sweat connections
- Inspection plate for cleaning A-coil design
- HUD approved for manufactured housing
- 40-VA, 208/230v transformer
- All models listed with UL (U.S. and Canada) and ARI

ADDITIONAL FEATURES

FY4A

- Puron® refrigerant factory-installed thermostatic expansion valves (TXV)
- Factory-installed heaters available
- ArmorCoat™ coil protection available

FA4C

- R-22 refrigerant factory-installed thermostatic expansion valves (TXV)
- 018-060 sizes available with or without factory-installed disconnect
- Factory-installed heaters available

MODEL NUMBER NOMENCLATURE

1	2	3	4	5	6	7–9	10–12
F	**A**	**4**	**C**	**N**	**F**	**018**	**000**
Product	Type	Position	Series	Electrical	Cabinet/ Insulation	Capacity	Heating Size
F – Fan Coil	A – Base, R–22 Y – Base, Puron® Refrigerant	4 – Multipoise	C	N – 208/230v, 1ph–60Hz	B – Modular C – Factory Disconnects F – Single piece	018 – 18,000 024 – 24,000 030 – 30,000 036 – 36,000 042 – 42,000 048 – 48,000 060 – 60,000	T00 – ArmorCoat™ 000 – No Heat 005 – 5kW 008 – 8kW 010 – 10kW 015 – 15kW

Puron™ the environmentally sound refrigerant

ARI PERFORMANCE CERTIFIED™ ARI Standard 210/240 Unitary Air Conditioners

ARI PERFORMANCE CERTIFIED™ ARI Standard 210/240 Unitary Heat Pumps

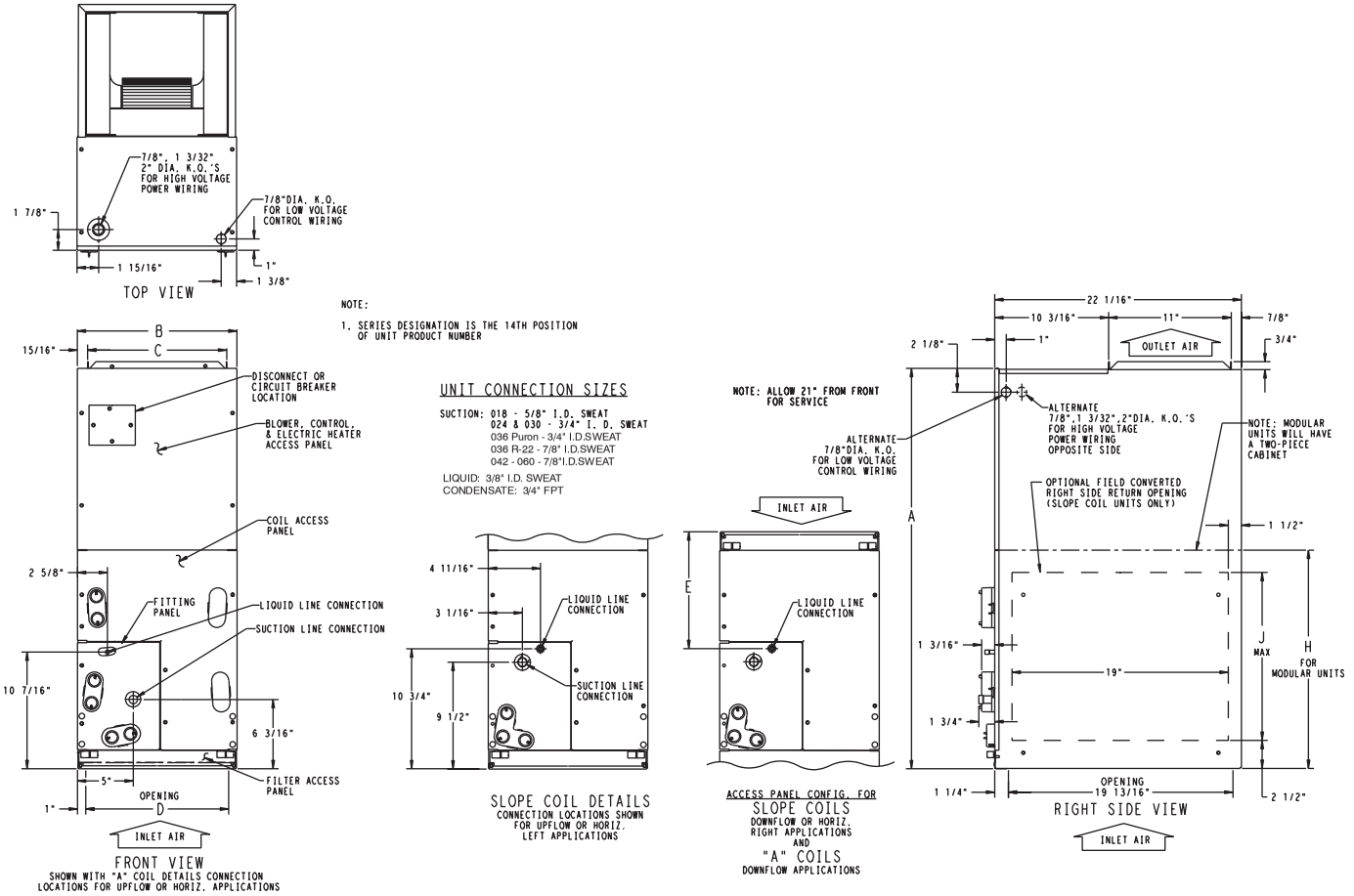
c UL® US

ISO 9001:2000 QMI REGISTERED

FY4A / FA4C

CERTIFICATION APPLIES ONLY WHEN THE COMPLETE SYSTEM IS LISTED WITH ARI

ArmorCoat™



A05355

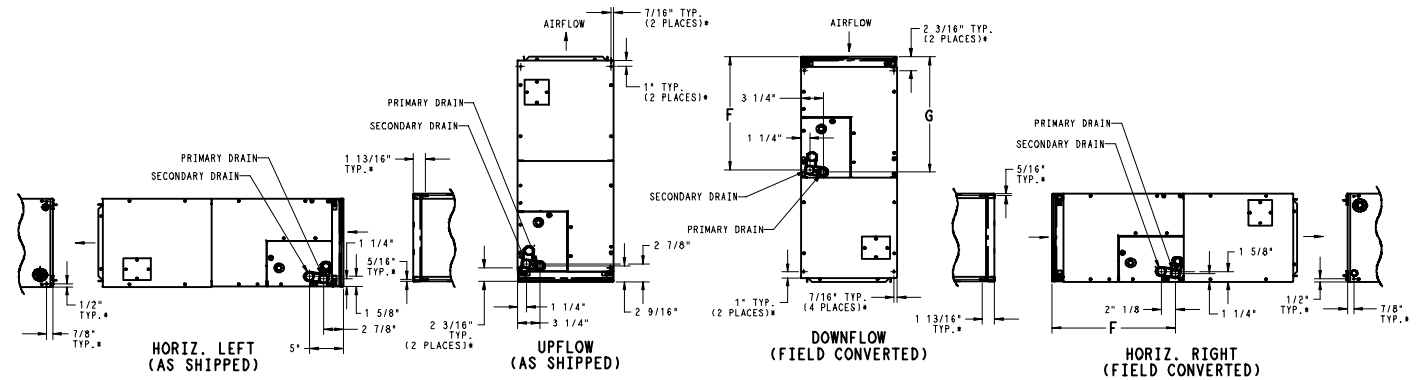
DIMENSIONS

UNIT SIZE FY, FA	COIL TYPE	A		B		C		D		E		H†		J	
		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
018	Slope	42–11/16	1084	14–5/16	364	12–7/16	316	12–5/16	313	10–7/16	265	—	—	12	305
024, 030	Slope	47–11/16	1211.5	17–5/8	448	15–3/4	400	15–5/8	397	15–3/8	391	—	—	17	432
036	Slope	53–7/16	1357	21–1/8	537	19–1/4	489	19–1/8	486	19–3/16	487	—	—	19	483
042	A	49–5/8	1260.5	21–1/8	537	19–1/4	489	19–1/8	486	15–3/8	391	—	—	—	—
048	A	53–7/16	1357	21–1/8	537	19–1/4	489	19–1/8	486	19–1/2	495	—	—	—	—
060	A	59–3/16	1503	24–11/16	627	22–3/4	577	22–11/16	576	25–1/4	642	34–1/16	685	—	—

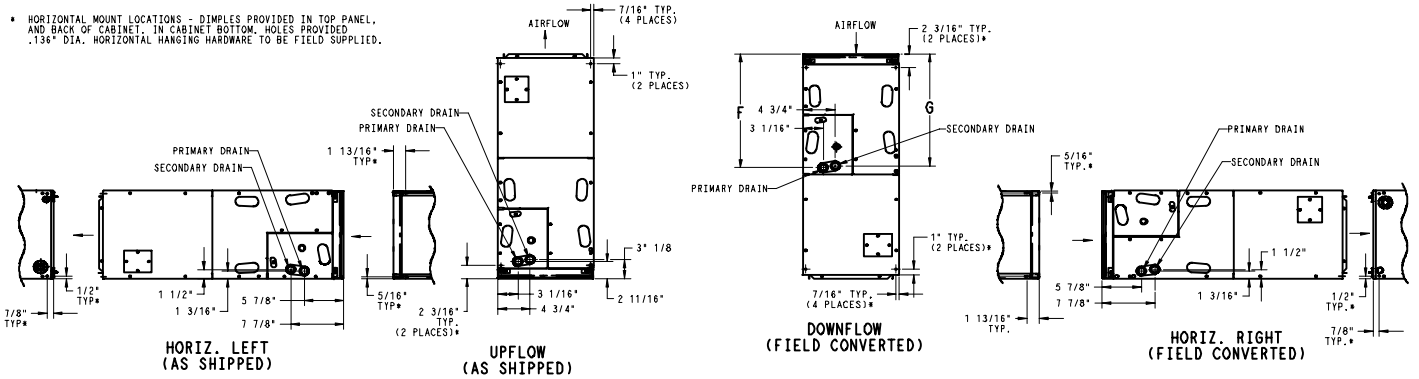
† Applicable to modular units only.

SLOPE COIL

NOTES:
1. CONDENSATE PAN DRAIN CAPS NOT SHOWN FOR CLARITY.



* HORIZONTAL MOUNT LOCATIONS - DIMPLES PROVIDED IN TOP PANEL, AND BACK OF CABINET. IN CABINET BOTTOM, HOLES PROVIDED .136" DIA. HORIZONTAL HANGING HARDWARE TO BE FIELD SUPPLIED.



A-COIL

A05356

DIMENSIONS (CONT)

UNIT SIZE FY, FA	COIL TYPE	F		G	
		in	mm	in	mm
018	Slope	18–1/8	460	18–5/8	473
024, 030	Slope	23–1/8	587	23–5/8	600
036	Slope	26–15/16	684	27–1/2	699
042	A	23–7/16	593	23–1/8	587
048	A	27–1/4	692	26–15/16	684
060	A	32–15/16	837	32–5/8	829

PHYSICAL DATA

ODS CATALOG ORDERING NO.	FACTORY INSTALLED HEAT (kW)	NOMINAL COOLING CAPACITY (BTUH)	DIMENSIONS			SHIPPING WEIGHT
			Height	Width	Depth	
FY4ANF018(T,0)00	–	18,000	42–11/16" 1084mm	14–5/16" 363mm	22–1/16" 560mm	100 lb 45 kg
FY4ANF018005	5					
FY4ANF018008	8					
FY4ANF024(T,0)00	–	24,000	47–11/16" 1211mm	17–5/8" 447mm	22–1/16" 560mm	117 lb 53 kg
FY4ANF024005	5					
FY4ANF024010	10					
FY4ANF030(T,0)00	–	30,000	47–11/16" 1211mm	17–5/8" 447mm	22–1/16" 560mm	120 lb 54 kg
FY4ANF030008	8					
FY4ANF030010	10					
FY4ANF036(T,0)00	–	36,000	53–7/16" 1357mm	21–1/8" 536mm	22–1/16" 560mm	144 lb 65 kg
FY4ANF036010	10					
FY4ANF036015	15					
FY4ANF042(T,0)00	–	42,000	49–5/8" 1260mm	21–1/8" 536mm	22–1/16" 560mm	150 lb 68 kg
FY4ANF042010	10					
FY4ANF042015	15					
FY4ANF048(T,0)00	–	48,000	53–7/16" 1357mm	21–1/8" 536mm	22–1/16" 560mm	170 lb 77 kg
FY4ANF048010	10					
FY4ANF048015	15					
FY4ANB060(T,0)00	–	60,000	59–3/16" 1503mm	24–11/16" 627mm	22–1/16" 560mm	198 lb 90 kg
FY4ANB060010	10					
FY4ANB060015	15					

6th digit: B – Modular cabinet, C – Disconnect, F – Single piece cabinet
10th digit: 0 – Standard copper coil, T – ArmorCoat™

ODS CATALOG ORDERING NO.	FACTORY INSTALLED HEAT (kW)	NOMINAL COOLING CAPACITY (BTUH)	DIMENSIONS			SHIPPING WEIGHT
			Height	Width	Depth	
FA4CNF018000	–	18,000	42–11/16" 1084mm	14–5/16" 363mm	22–1/16" 560mm	100 lb 45 kg
FA4CNF018005	5					
FA4CNC018005						
FA4CNF018008	8					
FA4CNF024000	–	24,000	47–11/16" 1211mm	17–5/8" 447mm	22–1/16" 560mm	117 lb 53 kg
FA4CNF024005	5					
FA4CNC024005						
FA4CNF024010	10					
FA4CNF030000	–	30,000	47–11/16" 1211mm	17–5/8" 447mm	22–1/16" 560mm	120 lb 54 kg
FA4CNF030008	8					
FA4CNC030008						
FA4CNF030010	10					
FA4CNF036000	–	36,000	53–7/16" 1357mm	21–1/8" 536mm	22–1/16" 560mm	144 lb 65 kg
FA4CNF036010	10					
FA4CNC036010						
FA4CNF036015	15					
FA4CNF042000	–	42,000	49–5/8" 1260mm	21–1/8" 536mm	22–1/16" 560mm	150 lb 68 kg
FA4CNF042010	10					
FA4CNC042010						
FA4CNF042015	15					
FA4CNF048000	–	48,000	53–7/16" 1357mm	21–1/8" 536mm	22–1/16" 560mm	170 lb 77 kg
FA4CNF048010	10					
FA4CNC048010						
FA4CNF048015	15					
FA4CNB060000	–	60,000	59–3/16" 1503mm	24–11/16" 627mm	22–1/16" 560mm	198 lb 90 kg
FA4CNB060010	10					
FA4CNC060010						
FA4CNB060015	15					

6th digit: B – Modular cabinet, C – Disconnect, F – Single piece cabinet

SPECIFICATIONS

MODEL FY4A	018	024	030	036	042	048	060
COIL							
Puron® Refrigerant Metering Device	TXV – factory installed hard–shutoff, bi–flow type for heat pump application						
TXV Size	2 ton			3 ton		4 ton	
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
Motor Type	PSC	PSC	PSC	PSC	PSC	PSC	PSC
Motor Hp	1/6	1/4	1/4	1/3	1/2	3/4	3/4
FILTER*							
21–1/2" / 546 mm X	13" / 330 mm	16–3/8" / 417 mm		19–7/8" / 505 mm			23–5/16" / 585 mm
CABINET CONFIGURATION OPTIONS							
	1–piece	1–piece	1–piece	1–piece	1–piece	1–piece	Modular

*Filter must be field–supplied for FY4A units.

MODEL FA4C	018	024	030	036	042	048	060
R–22 Refrigerant Metering Device	TXV – factory installed hard–shutoff, bi–flow 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
Motor Type	PSC	PSC	PSC	PSC	PSC	PSC	PSC
Motor Hp	1/6	1/4	1/4	1/3	1/2	3/4	3/4
FILTER*							
21–1/2" / 546 mm X	13" / 330 mm	16–3/8" / 417 mm		19–7/8" / 505 mm			23–5/16" / 585 mm
CABINET CONFIGURATION OPTIONS							
	1–piece	1–piece	1–piece	1–piece	1–piece	1–piece	Modular

*Filter must be field–supplied for FA4C units.

PERFORMANCE DATA

AIRFLOW PERFORMANCE (CFM)

MODEL & SIZE	BLOWER SPEED	TOTAL EXTERNAL STATIC PRESSURE					
		0.10	0.20	0.30	0.40	0.50	0.60
FY4A, FA4C 018	High	816	795	753	690	607	504
	Low	633	620	588	538	468	380
FY4A, FA4C 024	High	1055	991	926	860	793	724
	Low	934	878	818	754	686	614
FY4A, FA4C 030	High	1070	1032	978	908	822	721
	Low	910	888	849	791	715	621
FY4A, FA4C 036	High	1352	1316	1273	1223	1167	1103
	Low	1137	1112	1081	1043	998	946
FY4A, FA4C 042	High	1720	1668	1602	1521	1426	1316
	Medium	1576	1540	1488	1421	1338	1239
	Low	1388	1367	1330	1278	1209	1124
FY4A, FA4C 048	High	1902	1824	1743	1659	1571	1479
	Medium	1830	1763	1690	1611	1527	1436
	Low	1625	1584	1531	1465	1387	1296
FY4A, FA4C 060	High	2128	2050	1965	1875	1778	1674
	Medium	1959	1898	1829	1750	1663	1566
	Low	1748	1709	1659	1598	1525	1442

– Shading – Airflow outside 450 cfm/ton.

NOTES:

1. Airflow based upon dry coil at 230v with factory–approved filter and electric heater (2 element heater sizes 18 thru 36, 3 element heater sizes 42 thru 60). Airflow at 208 volts is approximately 10% lower.
2. To avoid potential for condensate blowing out of drain pan prior to making drain trap:
   Return static pressure must be less than 0.40 in. wc.
   Horizontal applications of 042 – 060 sizes must have supply static greater than 0.20 in. wc.
3. Airflow above 400 cfm/ton on 048–060 size could result in condensate blowing off coil or splashing out of drain pan.

PERFORMANCE DATA (cont)

GROSS COOLING CAPACITIES (mbh) - PURON® REFRIGERANT

UNIT SIZE	INDOOR COIL AIR		SATURATED TEMPERATURE LEAVING EVAPORATOR (°F / °C)														
			35 / 2			40 / 4			45 / 7			50 / 10			55 / 13		
	CFM	EWB	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF
FY4A 018	525	72 / 22	40	20	0.00	36	18	0.00	32	16	0.00	27	14	0.02	21	11	0.02
		67 / 19	33	20	0.02	29	18	0.02	24	16	0.03	20	14	0.03	14	12	0.03
		62 / 17	26	21	0.03	22	18	0.03	18	16	0.03	14	14	0.08	12	12	0.22
	600	72 / 22	44	22	0.00	40	20	0.00	35	17	0.01	30	15	0.02	24	13	0.03
		67 / 19	36	22	0.03	32	20	0.03	27	18	0.03	22	15	0.04	16	13	0.04
		62 / 17	29	23	0.04	25	21	0.04	20	18	0.04	16	16	0.10	13	13	0.24
	675	72 / 22	48	24	0.00	43	22	0.00	38	19	0.02	32	17	0.03	26	14	0.04
		67 / 19	40	25	0.04	35	22	0.04	29	20	0.04	24	17	0.04	17	14	0.05
		62 / 17	32	25	0.05	27	23	0.05	22	20	0.05	17	17	0.11	15	15	0.26
FY4A 024	700	72 / 22	51	25	0.00	46	23	0.00	40	20	0.02	34	17	0.03	27	15	0.03
		67 / 19	42	26	0.04	37	23	0.04	31	20	0.04	25	18	0.04	18	15	0.04
		62 / 17	34	26	0.04	28	24	0.04	23	21	0.05	18	18	0.10	15	15	0.25
	800	72 / 22	56	28	0.00	51	25	0.00	44	22	0.03	37	19	0.04	30	16	0.05
		67 / 19	46	29	0.05	40	26	0.05	34	23	0.05	27	20	0.05	20	17	0.06
		62 / 17	37	29	0.06	31	26	0.06	25	23	0.06	20	20	0.13	17	17	0.27
	900	72 / 22	61	30	0.00	55	27	0.01	48	24	0.04	40	21	0.05	32	18	0.06
		67 / 19	50	31	0.06	44	28	0.06	37	25	0.06	29	21	0.06	21	18	0.07
		62 / 17	40	32	0.07	34	29	0.07	27	25	0.07	22	22	0.15	18	18	0.29
FY4A 030	875	72 / 22	61	30	0.01	55	27	0.00	48	24	0.02	41	21	0.03	33	18	0.03
		67 / 19	50	31	0.04	44	28	0.04	37	25	0.04	30	21	0.04	22	18	0.05
		62 / 17	41	32	0.04	34	29	0.04	28	25	0.05	22	22	0.11	18	18	0.25
	1000	72 / 22	68	33	0.00	61	30	0.00	53	27	0.03	45	23	0.04	36	19	0.05
		67 / 19	56	34	0.05	49	31	0.05	41	27	0.05	33	24	0.05	24	20	0.06
		62 / 17	45	35	0.06	38	32	0.06	30	28	0.06	24	24	0.13	20	20	0.27
	1125	72 / 22	73	36	0.00	66	33	0.02	58	29	0.04	48	25	0.05	39	21	0.06
		67 / 19	60	38	0.06	53	34	0.06	45	30	0.06	36	26	0.06	26	22	0.07
		62 / 17	49	39	0.07	41	35	0.07	33	31	0.08	27	27	0.16	23	23	0.29
FY4A 036	1050	72 / 22	79	39	0.00	71	35	0.00	62	31	0.02	52	27	0.03	42	23	0.04
		67 / 19	65	40	0.04	57	36	0.04	48	32	0.04	38	28	0.04	28	23	0.05
		62 / 17	52	41	0.05	44	37	0.05	36	33	0.05	28	28	0.11	24	24	0.26
	1200	72 / 22	87	43	0.00	78	39	0.00	68	34	0.03	57	30	0.04	46	25	0.05
		67 / 19	72	44	0.05	63	40	0.05	53	35	0.06	42	31	0.06	31	26	0.06
		62 / 17	58	46	0.06	49	41	0.06	39	36	0.07	31	31	0.14	26	26	0.28
	1350	72 / 22	95	47	0.00	85	42	0.02	74	37	0.05	62	32	0.06	50	28	0.06
		67 / 19	78	49	0.06	68	44	0.06	57	39	0.07	46	34	0.07	33	29	0.07
		62 / 17	63	50	0.07	53	45	0.07	43	40	0.08	35	35	0.16	29	29	0.30
FY4A 042	1225	72 / 22	93	46	0.00	83	41	0.00	73	37	0.01	62	32	0.03	49	27	0.03
		67 / 19	76	47	0.03	67	42	0.03	57	37	0.04	45	32	0.04	33	27	0.04
		62 / 17	61	48	0.04	52	43	0.04	42	38	0.04	33	33	0.10	28	28	0.24
	1400	72 / 22	102	51	0.00	92	46	0.00	80	40	0.02	68	35	0.04	54	30	0.04
		67 / 19	84	52	0.04	74	47	0.04	62	42	0.05	50	36	0.05	36	31	0.05
		62 / 17	68	53	0.05	57	48	0.05	46	43	0.06	37	37	0.12	31	31	0.26
	1575	72 / 22	111	55	0.00	100	50	0.01	87	44	0.04	74	38	0.05	59	32	0.05
		67 / 19	92	57	0.05	80	51	0.06	68	46	0.06	54	40	0.06	39	34	0.06
		62 / 17	74	59	0.06	62	53	0.06	50	47	0.07	41	41	0.14	34	34	0.28
FY4A 048	1400	72 / 22	109	54	0.00	98	49	0.00	86	43	0.00	73	37	0.02	58	31	0.02
		67 / 19	90	55	0.02	79	49	0.02	67	44	0.03	53	38	0.03	39	32	0.03
		62 / 17	72	56	0.03	61	50	0.03	49	44	0.03	38	38	0.08	32	32	0.22
	1600	72 / 22	121	60	0.00	109	54	0.00	95	48	0.01	81	41	0.02	65	35	0.03
		67 / 19	100	61	0.03	87	55	0.03	74	49	0.03	59	42	0.04	43	36	0.04
		62 / 17	80	63	0.04	68	56	0.04	55	50	0.04	43	43	0.10	36	36	0.24
	1800	72 / 22	132	65	0.00	119	59	0.00	104	52	0.02	88	45	0.03	70	38	0.04
		67 / 19	109	67	0.04	95	61	0.04	81	54	0.04	64	47	0.04	47	39	0.05
		62 / 17	88	69	0.05	74	62	0.05	60	55	0.05	48	48	0.11	40	40	0.26
FY4A 060	1600	72 / 22	132	65	0.00	119	59	0.00	104	52	0.00	89	45	0.01	71	38	0.02
		67 / 19	108	67	0.02	95	60	0.02	81	53	0.02	65	46	0.02	48	39	0.02
		62 / 17	87	68	0.02	74	61	0.02	60	54	0.03	47	47	0.06	39	39	0.21
	1750	72 / 22	141	70	0.00	127	63	0.00	112	56	0.00	95	48	0.02	76	41	0.02
		67 / 19	116	72	0.02	102	64	0.02	87	57	0.03	70	49	0.03	51	42	0.03
		62 / 17	94	73	0.03	80	66	0.03	64	58	0.03	50	50	0.08	42	42	0.22
	2000	72 / 22	156	77	0.01	141	70	0.00	124	62	0.01	105	54	0.02	84	46	0.03
		67 / 19	129	80	0.03	113	72	0.03	96	64	0.03	77	55	0.04	57	47	0.04
		62 / 17	104	82	0.04	88	73	0.04	71	65	0.04	57	57	0.10	48	48	0.24

See Notes following table.

PERFORMANCE DATA (cont)

GROSS COOLING CAPACITIES (mbh) - R-22

UNIT SIZE	INDOOR COIL AIR		SATURATED TEMPERATURE LEAVING EVAPORATOR (°F / °C)														
			35 / 2			40 / 4			45 / 7			50 / 10			55 / 13		
	CFM	EWB	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF
FA4C 018	525	72 / 22	38	19	0.00	35	17	0.00	30	15	0.01	26	13	0.02	21	11	0.02
		67 / 19	32	20	0.02	28	18	0.02	24	16	0.03	19	14	0.03	13	12	0.03
		62 / 17	26	20	0.03	22	18	0.03	18	16	0.04	14	14	0.11	12	12	0.26
	600	72 / 22	42	21	0.00	38	19	0.00	33	17	0.02	28	15	0.02	23	13	0.03
		67 / 19	35	22	0.03	30	20	0.03	26	18	0.03	21	15	0.03	15	13	0.04
		62 / 17	28	22	0.04	24	20	0.04	19	18	0.05	16	16	0.13	13	13	0.28
	675	72 / 22	45	22	0.00	41	20	0.02	36	18	0.03	30	16	0.03	24	14	0.04
		67 / 19	37	24	0.04	33	21	0.04	28	19	0.04	22	17	0.04	16	14	0.05
		62 / 17	30	25	0.05	26	22	0.05	21	20	0.06	17	17	0.15	14	14	0.30
FA4C 024	700	72 / 22	49	24	0.00	44	22	0.00	38	19	0.02	32	17	0.03	26	14	0.03
		67 / 19	40	25	0.04	35	23	0.04	30	20	0.04	23	17	0.04	16	14	0.05
		62 / 17	32	26	0.04	27	23	0.04	22	21	0.05	18	18	0.14	15	15	0.29
	800	72 / 22	53	26	0.00	48	24	0.02	42	21	0.04	35	18	0.04	28	16	0.05
		67 / 19	44	27	0.05	38	25	0.05	32	22	0.05	26	19	0.05	18	16	0.06
		62 / 17	35	29	0.05	30	26	0.06	24	23	0.07	20	20	0.17	16	16	0.31
	900	72 / 22	57	28	0.00	51	26	0.03	45	23	0.05	38	20	0.05	30	17	0.06
		67 / 19	47	30	0.06	41	27	0.06	35	24	0.06	28	21	0.06	20	18	0.08
		62 / 17	38	31	0.07	32	28	0.07	26	25	0.08	22	22	0.19	18	18	0.33
FA4C 030	875	72 / 22	62	30	0.00	55	27	0.01	48	24	0.02	41	21	0.03	32	18	0.04
		67 / 19	51	32	0.04	44	28	0.04	37	25	0.04	29	22	0.04	20	18	0.05
		62 / 17	41	33	0.04	34	29	0.05	27	26	0.06	22	22	0.15	18	18	0.30
	1000	72 / 22	67	33	0.00	60	30	0.02	52	27	0.04	44	23	0.04	35	20	0.05
		67 / 19	55	35	0.05	48	31	0.05	41	28	0.05	32	24	0.05	22	20	0.07
		62 / 17	44	36	0.06	38	33	0.06	30	29	0.07	25	25	0.18	20	20	0.32
	1125	72 / 22	72	36	0.01	65	32	0.04	57	29	0.05	47	25	0.05	38	22	0.06
		67 / 19	60	38	0.06	52	34	0.06	44	30	0.06	35	27	0.07	24	22	0.08
		62 / 17	48	39	0.07	41	36	0.07	33	32	0.09	27	27	0.20	23	23	0.34
FA4C 036	1050	72 / 22	72	36	0.00	65	32	0.01	57	29	0.03	48	25	0.03	38	21	0.04
		67 / 19	59	37	0.04	52	34	0.04	44	30	0.04	34	26	0.04	24	21	0.06
		62 / 17	48	39	0.05	40	35	0.05	32	31	0.06	26	26	0.16	22	22	0.31
	1200	72 / 22	79	39	0.00	71	35	0.03	62	31	0.04	52	27	0.05	41	23	0.05
		67 / 19	65	41	0.05	57	37	0.05	48	33	0.06	38	29	0.06	26	24	0.07
		62 / 17	52	43	0.06	44	39	0.06	36	34	0.08	29	29	0.18	24	24	0.33
	1350	72 / 22	85	42	0.01	76	38	0.04	66	34	0.05	56	30	0.06	45	25	0.06
		67 / 19	70	45	0.06	61	40	0.06	51	36	0.07	41	31	0.07	29	26	0.09
		62 / 17	56	46	0.07	48	42	0.07	39	38	0.09	32	32	0.20	27	27	0.34
FA4C 042	1225	72 / 22	85	42	0.00	77	38	0.01	67	34	0.02	57	30	0.03	46	25	0.03
		67 / 19	70	44	0.03	62	40	0.03	52	36	0.04	42	31	0.04	30	26	0.04
		62 / 17	57	46	0.04	48	42	0.04	39	37	0.05	32	32	0.14	27	27	0.28
	1400	72 / 22	92	46	0.00	83	42	0.02	73	37	0.03	62	33	0.04	50	28	0.04
		67 / 19	76	48	0.04	67	44	0.04	57	39	0.05	46	35	0.05	33	29	0.06
		62 / 17	62	51	0.05	53	46	0.05	43	41	0.06	36	36	0.16	30	30	0.30
	1575	72 / 22	99	49	0.01	89	45	0.03	79	40	0.04	67	36	0.05	53	30	0.05
		67 / 19	82	52	0.05	72	48	0.05	61	43	0.06	49	38	0.06	36	32	0.07
		62 / 17	67	55	0.06	57	50	0.06	47	45	0.08	39	39	0.18	33	33	0.32
FA4C 048	1400	72 / 22	89	44	0.00	81	40	0.00	72	36	0.01	61	32	0.02	50	28	0.02
		67 / 19	74	47	0.02	66	43	0.02	56	38	0.03	46	34	0.03	34	29	0.03
		62 / 17	60	49	0.03	52	45	0.03	43	40	0.04	35	35	0.11	29	29	0.26
	1600	72 / 22	96	48	0.00	87	44	0.01	78	40	0.02	67	35	0.03	54	30	0.03
		67 / 19	80	51	0.03	71	47	0.03	61	42	0.03	50	37	0.03	37	32	0.04
		62 / 17	65	54	0.04	56	49	0.04	47	45	0.05	39	39	0.14	33	33	0.28
	1800	72 / 22	103	51	0.01	94	47	0.02	83	43	0.03	72	38	0.03	58	33	0.04
		67 / 19	86	55	0.04	76	51	0.04	66	46	0.04	53	41	0.04	40	36	0.05
		62 / 17	70	59	0.04	60	54	0.05	50	49	0.06	43	43	0.16	36	36	0.29
FA4C 060	1600	72 / 22	118	58	0.00	107	53	0.00	94	48	0.01	81	42	0.01	66	36	0.01
		67 / 19	98	61	0.02	86	55	0.02	74	50	0.02	60	44	0.02	43	37	0.03
		62 / 17	79	63	0.02	68	58	0.02	55	52	0.03	45	45	0.10	37	37	0.25
	1750	72 / 22	125	62	0.00	113	56	0.00	100	51	0.01	86	45	0.02	69	38	0.02
		67 / 19	103	65	0.02	92	59	0.02	78	53	0.03	64	47	0.03	46	40	0.03
		62 / 17	84	68	0.03	72	62	0.03	59	56	0.04	48	48	0.11	40	40	0.26
	2000	72 / 22	135	67	0.00	123	62	0.01	109	56	0.02	93	49	0.03	76	42	0.03
		67 / 19	113	71	0.03	100	65	0.03	85	59	0.03	69	52	0.03	51	45	0.04
		62 / 17	92	75	0.04	79	69	0.04	65	62	0.05	54	54	0.13	45	45	0.27

See Notes following table.

PERFORMANCE DATA (cont)

NOTES:

CFM - Cubic Ft. per Minute **EWB** - Entering Wet Bulb (°F) **LWB** - Leaving Wet Bulb (°F) **TC** - Gross Cooling Capacity 1000 Btuh
SHC - Gross Sensible Capacity 1000 Btuh **BF** - Bypass Factor **MBH** - 1000 Btuh

1. Contact manufacturer for cooling capacities at conditions other than shown in table.
2. Formulas:
   Leaving db = entering db $-\frac{\text{sensible heat cap.}}{1.09 \times \text{CFM}}$
   Leaving wb = wb corresponding to enthalpy of air leaving coil (h_{lwb})
   $h_{lwb} = h_{ewb} - \frac{\text{total capacity (Btuh)}}{4.5 \times \text{CFM}}$
   where h_{ewb} = enthalpy of air entering coil. Direct interpolation is permissible. Do not extrapolate.
3. SHC is based on 80°F db temperature of air entering coil. Below 80°F db, subtract (Correction Factor x CFM) from SHC. Above 80°F db, add (Correction Factor x CFM) to SHC.
4. Bypass Factor = 0 indicates no psychometric solution. Use bypass factor of next lower EWB for approximation.

Interpolation is permissible.
Correction Factor = 1.09 x (1 – BF) x (db – 80)

SHC CORRECTION FACTOR

BYPASS FACTOR	ENTERING AIR DRY–BULB TEMPERATURE (°F)					
	79	78	77	76	75	Under 75
	81	82	83	84	85	Over 85
	Correction Factor					
0.10	.098	1.96	2.94	3.92	4.91	Use formula shown below
0.20	0.87	1.74	2.62	3.49	4.36	
0.30	0.76	1.53	2.29	3.05	3.82	

MINIMUM CFM AND MOTOR SPEED SELECTION

FAN COIL SIZES FY, FA	HEATER kW									
	3	5	8	9	10	15	18	20	24	30
018	525	525	525	—	600*	—	—	—	—	—
024	700	700	700	—	700	775*	—	—	—	—
030	—	875	875	—	875	875	—	1060*	—	—
036	—	1050	970	970	970	920	—	1040	—	—
042	—	—	1225	1225	1225	1225	1225	1225	—	—
048	—	—	1400	1400	1400	1400	1400	1400	1400	1400
060	—	—	1750	1750	1750	1750	1750	1750	1750	1750

*Indicates medium speed (blue). All other motor speeds at low tap.

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

FY, FA 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

FIELD-INSTALLED ACCESSORY FILTER STATIC PRESSURE DROP (in. wc)

UNIT SIZE FY, FA	CFM								
	400	600	800	1000	1200	1400	1600	1800	2000
018	0.020	0.044	0.075	–	–	–	–	–	–
024, 030	–	0.022	0.048	0.072	0.100	–	–	–	–
036, 042, 048	–	–	–	0.051	0.070	0.092	0.120	0.152	–
060	–	–	–	–	–	–	0.086	0.105	0.130

ELECTRIC HEATER STATIC PRESSURE DROP (in. wc)

018 – 036			042 – 060		
HEATER ELEMENTS	kW	EXTERNAL STATIC PRESSURE CORRECTION	HEATER ELEMENTS	kW	EXTERNAL STATIC PRESSURE CORRECTION
0	0	+.02	0	0	+.04
1	3, 5	+.01	2	8, 10	+.02
2	8, 10	0	3	9, 15	0
3	9, 15	–.02	4	20	–.02
4	20	–.04	6	18, 24, 30	–.10

The airflow performance data was developed using fan coils with 10–kW electric heaters (2 elements) in the 018 through 036 size units and 15–kW heaters (3 elements) in the 042 through 060 size units. For fan coils with heaters of a different number of elements, the external available static at a given CFM from the curve may be corrected by adding or subtracting available external static pressure as indicated above.

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	018–060	25,100
KFCEH0901N10	10	230/1	10	None	018–060	31,400
KFCEH3201F20	20	230/1	5, 20	Fuse‡	030–060	62,800
KFCEH1601315	15	230/3	5, 15	None	036–060	47,100
KFCEH2001318	18	230/3	6, 12, 18	None	042–060	56,500
KFCEH3401F24	24	230/3*	8, 16, 24	Fuse	048, 060	78,300
KFCEH3501F30	30	230/3*	10, 20, 30	Fuse	048, 060	94,100
KFCEH2401C05	5	230/1	5	Circuit Breaker	018–060	15,700
KFCEH2501C08	8	230/1	8	Circuit Breaker	018–060	25,100
KFCEH2601C10	10	230/1	10	Circuit Breaker	018–060	31,400
KFCEH3301C20	20	230/1	5, 20	Circuit Breaker	030–060	62,800
KFCEH2901N09	9	230/1†	3, 9	None	036–060	28,200
KFCEH3001F15	15	230/1	5, 15	Fuse‡	024–060	47,100
KFCEH3101C15	15	230/1	5, 15	Circuit Breaker	024–060	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.

ESTIMATED SOUND POWER LEVEL (dBA)

UNIT SIZE FY, FA	CONDITIONS		OCTAVE BAND CENTER FREQUENCY*						
	CFM	Ext Static Pressure	63	125	250	500	1000	2000	4000
018	600	0.25	64.7	60.7	56.7	53.7	51.7	49.7	45.7
024	800	0.25	66.0	62.0	58.0	55.0	53.0	51.0	47.0
030	1000	0.25	67.0	63.0	59.0	56.0	54.0	52.0	48.0
036	1200	0.25	67.8	63.8	59.8	56.8	54.8	52.8	48.8
042	1400	0.25	68.4	64.4	60.4	57.4	55.4	53.4	49.4
048	1600	0.25	69.0	65.0	61.0	58.0	56.0	54.0	50.0
060	2000	0.25	70.0	66.0	62.0	59.0	57.0	55.0	51.0

* Est. sound power levels have been derived using the method described in the 1987 ASHRAE HVAC Systems & Applications Handbook, Chap. 52, p. 52.7.

ELECTRICAL DATA FOR UNITS WITH FACTORY-INSTALLED HEATERS

MODEL NO	MTR HP	MTR FLA	HEAT PACK INSTALLED	SINGLE CIRCUIT			DUAL CIRCUIT					
				HTR AMPS	MCA	MAX OVERCUR PROTECT	HTR AMPS	MCA	MAX OVERCUR PROTECT	HTR AMPS	MCA	MAX OVERCUR PROTECT
							L1/L2	L1/L2	L1/L2	L3/L4	L3/L4	L3/L4
FY4ANB060010	3/4	5.2	MKFCEH0901N10	36.2/40.0	51.8/56.5	50/60	–	–	–	–	–	–
FY4ANB060015	3/4	5.2	MKFCEH1501F15	54.2/59.9	74.3/81.4	80/80	36.2/40.0	51.8/56.5	60/60	18.1/20.0	22.6/25.0	25/25
FY4ANF018005	1/6	1.8	MKFCEH0501N05	18.1/20.0	24.9/27.3	25/30	–	–	–	–	–	–
FY4ANF018008	1/6	1.8	MKFCEH0801N08	28.9/32.0	38.4/42.3	40/45	–	–	–	–	–	–
FY4ANF024005	1/4	1.8	MKFCEH0501N05	18.1/20.0	24.9/27.3	25/30	–	–	–	–	–	–
FY4ANF024010	1/4	1.8	MKFCEH0901N10	36.2/40.0	47.5/52.3	50/60	–	–	–	–	–	–
FY4ANF030008	1/4	1.5	MKFCEH0801N08	28.9/32.0	38.0/41.9	40/45	–	–	–	–	–	–
FY4ANF030010	1/4	1.5	MKFCEH0901N10	36.2/40.0	47.1/51.9	50/60	–	–	–	–	–	–
FY4ANF036010	1/3	2.4	MKFCEH0901N10	36.2/40.0	48.3/53.0	50/60	–	–	–	–	–	–
FY4ANF036015	1/3	2.4	MKFCEH1501F15	54.2/59.9	70.8/77.9	80/80	36.2/40.0	48.3/53.0	50/60	18.1/20.0	22.6/25.0	25/25
FY4ANF042010	1/2	2.9	MKFCEH0901N10	36.2/40.0	48.9/53.6	50/60	–	–	–	–	–	–
FY4ANF042015	1/2	2.9	MKFCEH1501F15	54.2/59.9	71.4/78.5	80/80	36.2/40.0	48.9/53.6	50/60	18.1/20.0	22.6/25.0	25/25
FY4ANF048010	3/4	4.3	MKFCEH0901N10	36.2/40.0	50.6/55.4	50/60	–	–	–	–	–	–
FY4ANF048015	3/4	4.3	MKFCEH1501F15	54.2/59.9	73.1/80.3	80/80	36.2/40.0	50.6/55.4	60/60	18.1/20.0	22.6/25.0	25/25

NOTE: All units 208/230, single–phase, 60 Hz

MCA – Minimum Circuit Amps

FLA – Full Load Amps

PERFORMANCE DATA (cont)

ELECTRICAL DATA FOR UNITS WITH FACTORY-INSTALLED HEATERS (cont)

MODEL NO	MTR HP	MTR FLA	HEAT PACK INSTALLED	SINGLE CIRCUIT			DUAL CIRCUIT					
				HTR AMPS	MCA	MAX OVERCUR PROTECT	HTR AMPS	MCA	MAX OVERCUR PROTECT	HTR AMPS	MCA	MAX OVERCUR PROTECT
							L1/L2	L1/L2	L1/L2	L3/L4	L3/L4	L3/L4
FA4CNB060010	3/4	5.2	MKFCEH0901N10	36.2/40.0	51.8/56.5	50/60	–	–	–	–	–	–
FA4CNB060015	3/4	5.2	MKFCEH1501F15	54.2/59.9	74.3/81.4	80/80	36.2/40.0	51.8/56.5	60/60	18.1/20.0	22.6/25.0	25/25
FA4CNC018005	1/6	1.8	MKFCEH0501N05	18.1/20.0	24.9/27.3	25/30	–	–	–	–	–	–
FA4CNC024005	1/4	1.8	MKFCEH0501N05	18.1/20.0	24.9/27.3	25/30	–	–	–	–	–	–
FA4CNC030008	1/4	1.5	MKFCEH0801N08	28.9/32.0	38.0/41.9	40/45	–	–	–	–	–	–
FA4CNC036010	1/3	2.4	MKFCEH0901N10	36.2/40.0	48.3/53.0	50/60	–	–	–	–	–	–
FA4CNC042010	1/2	2.9	MKFCEH0901N10	36.2/40.0	48.9/53.6	50/60	–	–	–	–	–	–
FA4CNC048010	3/4	4.3	MKFCEH0901N10	36.2/40.0	50.6/55.4	50/60	–	–	–	–	–	–
FA4CNC060010	3/4	5.2	MKFCEH0901N10	36.2/40.0	51.8/56.5	50/60	–	–	–	–	–	–
FA4CNF018005	1/6	1.8	MKFCEH0501N05	18.1/20.0	24.9/27.3	25/30	–	–	–	–	–	–
FA4CNF018008	1/6	1.8	MKFCEH0801N08	28.9/32.0	38.4/42.3	40/45	–	–	–	–	–	–
FA4CNF024005	1/4	1.8	MKFCEH0501N05	18.1/20.0	24.9/27.3	25/30	–	–	–	–	–	–
FA4CNF024010	1/4	1.8	MKFCEH0901N10	36.2/40.0	47.5/52.3	50/60	–	–	–	–	–	–
FA4CNF030008	1/4	1.5	MKFCEH0801N08	28.9/32.0	38.0/41.9	40/45	–	–	–	–	–	–
FA4CNF030010	1/4	1.5	MKFCEH0901N10	36.2/40.0	47.1/51.9	50/60	–	–	–	–	–	–
FA4CNF036010	1/3	2.4	MKFCEH0901N10	36.2/40.0	48.3/53.0	50/60	–	–	–	–	–	–
FA4CNF036015	1/3	2.4	MKFCEH1501F15	54.2/59.9	70.8/77.9	80/80	36.2/40.0	48.3/53.0	50/60	18.1/20.0	22.6/25.0	25/25
FA4CNF042010	1/2	2.9	MKFCEH0901N10	36.2/40.0	48.9/53.6	50/60	–	–	–	–	–	–
FA4CNF042015	1/2	2.9	MKFCEH1501F15	54.2/59.9	71.4/78.5	80/80	36.2/40.0	48.9/53.6	50/60	18.1/20.0	22.6/25.0	25/25
FA4CNF048010	3/4	4.3	MKFCEH0901N10	36.2/40.0	50.6/55.4	50/60	–	–	–	–	–	–
FA4CNF048015	3/4	4.3	MKFCEH1501F15	54.2/59.9	73.1/80.3	80/80	36.2/40.0	50.6/55.4	60/60	18.1/20.0	22.6/25.0	25/25

NOTE: All units 208/230, single–phase, 60 Hz

MCA – Minimum Circuit Amps

FLA – Full Load Amps

ELECTRICAL DATA FOR UNITS WITHOUT FACTORY-INSTALLED HEATERS

MODEL NO	MTR HP	MTR FLA	MCA	MAX OVERCUR PROTECT	MIN WIRE SIZE AWG*
FY4ANB060T00	3/4	5.2	6.5	15	14
FY4ANB060000					
FY4ANF018T00	1/6	1.8	2.3	15	14
FY4ANF018000					
FY4ANF024T00	1/4	1.8	2.3	15	14
FY4ANF024000					
FY4ANF030T00	1/4	1.5	1.9	15	14
FY4ANF030000					
FY4ANF036T00	1/3	2.4	3.0	15	14
FY4ANF036000					
FY4ANF042T00	1/2	2.9	3.6	15	14
FY4ANF042000					
FY4ANF048T00	3/4	4.3	5.4	15	14
FY4ANF048000					

MODEL NO	MTR HP	MTR FLA	MCA	MAX OVERCUR PROTECT	MIN WIRE SIZE AWG*
FA4CNB060000	3/4	5.2	6.5	15	14
FA4CNF018000	1/6	1.8	2.3	15	14
FA4CNF024000	1/4	1.8	2.3	15	14
FA4CNF030000	1/4	1.5	1.9	15	14
FA4CNF036000	1/3	2.4	3.0	15	14
FA4CNF042000	1/2	2.9	3.6	15	14
FA4CNF048000	3/4	4.3	5.4	15	14

* Use copper wire only. Use 75°C only in this application. When using non–metallic (NM) sheathed cable, wire size required should be based on that of 60°C conductors, instead of wire sizes shown in table above per NEC Article 336–26.

NOTES: If branch circuit wire length exceeds 100 ft. (30m), consult NEC 215–2 to determine maximum wire length. Use 2% voltage drop.
All units 208/230, single–phase, 60 Hz.

FLA – Full Load Amps

FACTORY-INSTALLED HEATER OPTIONS*

MODEL	018	024	030	036	042	048	060
FA4CN(F,B)	5, 8	5, 10	8, 10	10, 15	10, 15	10, 15	10, 15
FA4CNC	5	5	8	10	10	10	10
FY4AN(F,B)	5, 8	5, 10	8, 10	10, 15	10, 15	10, 15	10, 15

* For field–installed heater/fan coil combinations, see Electric Heater Internal Protection below.

6th digit: B – Modular cabinet, C – Disconnect, F – Single piece cabinet

ELECTRIC HEATER INTERNAL PROTECTION*

HEATER KW	PHASE	FUSE QTY/SIZE	CKT BKR QTY/SIZE†
3	1	—	—
5	1	—	1/60
8	1	—	1/60
10	1	—	1/60
15	1	2/30 — 2/60	2/60
20	1	4/60	2/60
24	1/3	6/60	—
30	1/3	6/60	—
9	1/3	—	—
15	3	—	—
18	3	—	—

* 5–, 8–, 10–kW factory–installed heat has no internal protection. 15–kW factory–installed heat is internally protected with fuses.

† Circuit breakers are 2 pole.

ACCESSORY ELECTRIC HEATER ELECTRICAL DATA

HEATER PART NO.	kW		PHASE	INTERNAL CIRCUIT PROTECTION	HEATER AMPS 208/230V			BRANCH CIRCUIT												
								Min Ampacity 208/230V*			Min Wire Size (AWG) 208/230V†			Min Gnd Wire Size 208/230V			Max Fuse/Ckt Bkr Amps 208/230V			Max Wire Length 208/230V (Ft)‡		
					Single Circuit	Dual Circuit		Single Circuit	Dual Circuit		Single Circuit	Dual Circuit		Single Circuit	Dual Circuit		Single Circuit	Dual Circuit		Single Circuit	Dual Circuit	
	240v	208v				L1,l2	L3,L4		L1,L2	L3,L4		L1, L2	L3, L4		L1, L2	L3,L4		L1,L2	L3,L4		L1,L2	L3,L4
KFCEH0401N03	3	2.3	1	None	10.9/12.0	—	—	15.9/17.3	—	—	12/12	—	—	12/12	—	—	20/20	—	—	67/68	—	—
KFCEH0501N05[1]	5	3.8	1	None	18.1/20.0	—	—	26.0/28.4	—	—	10/10	—	—	10/10	—	—	30/30	—	—	66/66	—	—
KFCEH0501N05[2]	5	3.8	1	None	18.1/20.0	—	—	31.2/33.5	—	—	8/8	—	—	10/10	—	—	35/35	—	—	85/88	—	—
KFCEH2401C05[1]	5	3.8	1	Ckt Bkr	18.1/20.0	—	—	26.0/28.4	—	—	10/10	—	—	10/10	—	—	30/30	—	—	66/66	—	—
KFCEH2401C05[2]	5	3.8	1	Ckt Bkr	18.1/20.0	—	—	31.2/33.5	—	—	8/8	—	—	10/10	—	—	35/35	—	—	85/88	—	—
KFCEH0801N08	8	6.0	1	None	28.9/32.0	—	—	44.7/48.5	—	—	8/8	—	—	10/10	—	—	45/50	—	—	59/60	—	—
KFCEH2501C08	8	6.0	1	Ckt Bkr	28.9/32.0	—	—	44.7/48.5	—	—	8/8	—	—	10/10	—	—	45/50	—	—	59/60	—	—
KFCEH2901N09	9	6.8	1	None	32.8/36.0	—	—	49.5/53.5	—	—	8/6	—	—	10/10	—	—	50/60	—	—	54/87	—	—
KFCEH2901N09**	9	6.8	3	None	18.8/20.8	—	—	32.0/34.5	—	—	8/8	—	—	10/10	—	—	35/35	—	—	83/85	—	—
KFCEH0901N10	10	7.5	1	None	36.2/40.0	—	—	53.8/58.5	—	—	6/6	—	—	10/10	—	—	60/60	—	—	78/80	—	—
KFCEH2601C10	10	7.5	1	Ckt Bkr	36.2/40.0	—	—	53.8/58.5	—	—	6/6	—	—	10/10	—	—	60/60	—	—	78/80	—	—
KFCEH3001F15	15	11.3	1	Fuse	54.2/59.9	36.2/40.0	18.1/20.0	76.3/83.4	53.8/58.5	22.7/25.0	4/4	6/6	10/10	8/8	10/10	10/10	80/90	60/60	25/25	88/89	78/80	75/76
KFCEH3101C15	15	11.3	1	Ckt Bkr	—	36.2/40.0	18.1/20.0	—	53.8/58.5	22.7/25.0	—	6/6	10/10	—	10/10	10/10	—	60/60	25/25	—	78/80	75/76
KFCEH1601315	15	11.3	3	None	31.3/34.6	—	—	47.7/51.8	—	—	8/6	—	—	10/10	—	—	50/60	—	—	56/90	—	—
KFCEH2001318	18	13.5	3	None	37.6/41.5	—	—	55.5/60.4	—	—	6/6	—	—	10/8	—	—	60/70	—	—	76/77	—	—
KFCEH3201F20	20	15.0	1	Fuse	72.3/79.9	36.2/40.0	36.2/40.0	98.9/108.4	53.8/58.5	45.3/50.0	3/2	6/6	8/8	8/6	10/10	10/10	100/110	60/60	50/50	85/109	78/80	59/59
KFCEH3301C20	20	15.0	1	Ckt Bkr	—	36.2/40.0	36.2/40.0	—	53.8/58.5	45.3/50.0	—	6/6	8/8	—	10/10	10/10	—	60/60	50/50	—	78/80	59/59
KFCEH3401F24††	24	18.0	3	Fuse	50.1/55.4	—	—	71.2/77.8	—	—	4/4	—	—	8/8	—	—	80/80	—	—	94/95	—	—
	24	18.0	1	Fuse	86.7/95.5	—	—	116.9/127.9	—	—	1/1	—	—	6/6	—	—	125/150	—	—	115/116	—	—
KFCEH3501F30††	30	22.5	3	Fuse	62.6/69.2	—	—	86.8/95.0	—	—	3/3	—	—	8/8	—	—	90/100	—	—	97/98	—	—
	30	22.5	1	Fuse	109.0/120.0	—	—	144.8/158.5	—	—	0/00	—	—	6/6	—	—	150/175	—	—	117/150	—	—

FIELD MULTIPOINT WIRING OF 24-AND 30-kW SINGLE PHASE

HEATER PART NO.	kW		PHASE	HEATER AMPS 208/230V			MIN AMPACITY 208/230V*			MIN WIRE SIZE (AWG) 208/230V†			MIN GND WIRE SIZE 208/230V	MAX FUSE/CKT BKR AMPS 208/230V			MAX WIRE LENGTH 208/230V (FT)‡		
	240V	208V		L1,L2	L3,L4	L5,L6	L1,L2	L3,L4	L5,L6	L1,L2	L3,L4	L5,L6		L1,L2	L3,L4	L5,L6	L1,L2	L3,L4	L5,L6
KFCEH3401F24††	24	18.0	1	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	59/60	73/73	73/73
KFCEH3501F30††	30	22.5	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	6/6	8/8	8/8	10/10	60/60	50/50	50/50	78/80	59/59	59/59

* Includes blower motor amps of largest fan coil used with heater.

† Copper wire must be used. If other than uncoated (non–plated), 75°C 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).

‡ Length shown is as measured 1 way along wire path between unit and service panel for a voltage drop not to exceed 2%.

** Field convertible to 3 phase.

†† Field convertible to 1 phase, single or multiple supply circuit.

NOTES:

1. For fan coil sizes 018–036.
2. For fan coil sizes 042–060.
3. Single circuit application of F15 and F20 heaters requires single–point wiring kit accessory.

ACCESSORIES

ITEM		ACCESSORY PART NO.*	FAN COIL SIZE USED WITH
1.	Disconnect Kit	KFADK0201DSC	Cooling controls and heaters 3– through 10–kW
2.	Downflow Base Kit	KFACB0101CFB	018
		KFACB0201CFB	024, 030
		KFACB0301CFB	036, 042, 048
		KFACB0401CFB	060
3.	Downflow Conversion Kit	KFADC0201SLP	Slope Coil Units—018, 024, 030, 036
		KFADC0401ACL	A–Coil Units—042, 048, 060
4.	Single–Point Wiring Kit	KFASP0101SPK	Only with 15– and 20–kW Fused Heaters
5.	Filter Kit (12 Pack)	KFAFK0112SML	018
		KFAFK0212MED	024, 030
		KFAFK0312LRG	036, 042, 048
		KFAFK0412XXL	060
6.	PVC Condensate Trap Kit (50 pack)	KFAET0150ETK	All
7.	Air Cleaner 240–volt Conversion Kit	KEAVC0201240	All
8.	Downflow/Horizontal Conversion Gasket Kit	KFAHD0101SLP	All
9.	Horizontal Water Management Kit (25 pack)	KFAHC0125AAA	All

* Factory authorized and listed, field–installed.

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: Units for 3- through 10-kW electric resistance heaters and cooling controls.
2. **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 fan coils are used in downflow applications.
3. **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 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 the L2 and L4 lugs. This allows the installer to run two heavy-gauge, high-voltage wires into the fan coil rather than 4 light-gauge, high-voltage wires.
   SUGGESTED USE: Fan coils with 15- and 20-kW fused heaters only.
5. **Filter Kit (12 pack)**
   The kit consists of 12 fan coil framed filters. These filters collect large dust particles from the return air entering the fan coil and prevents 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 filters in fan coils.
   REQUIRED USE: All units unless a filter grille is used.
6. **Condensate Drain Trap Kit**
   This kit consists of 50 PVC condensate traps. Each trap is pre-formed and ready for field installation. This deep trap helps the system make and hold proper condensate flow even during blower initiation.
   SUGGESTED USE: All fan coils.
7. **Air Cleaner 240-volt Conversion Kit**
   The AIRA electronic air cleaner comes ready for 115-v operation.
   REQUIRED USE: This kit is required when running 240-volt circuit to air cleaner.
8. **Downflow/Horizontal Conversion Gasket Kit**
   This kit provides the proper gasketing of units when applied in either a downflow or horizontal application.
   REQUIRED USE: Fan coils in either downflow or horizontal applications.
9. **Horizontal Applications - Water Management Kit**
   This kit provides proper installation of fan coils under conditions of high static pressure and high relative humidity.
   SUGGESTED USE: All fan coils.

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