



Product Data

FB4ASX (50 Hz) Direct Expansion Fan Coil

Sizes 024 thru 070

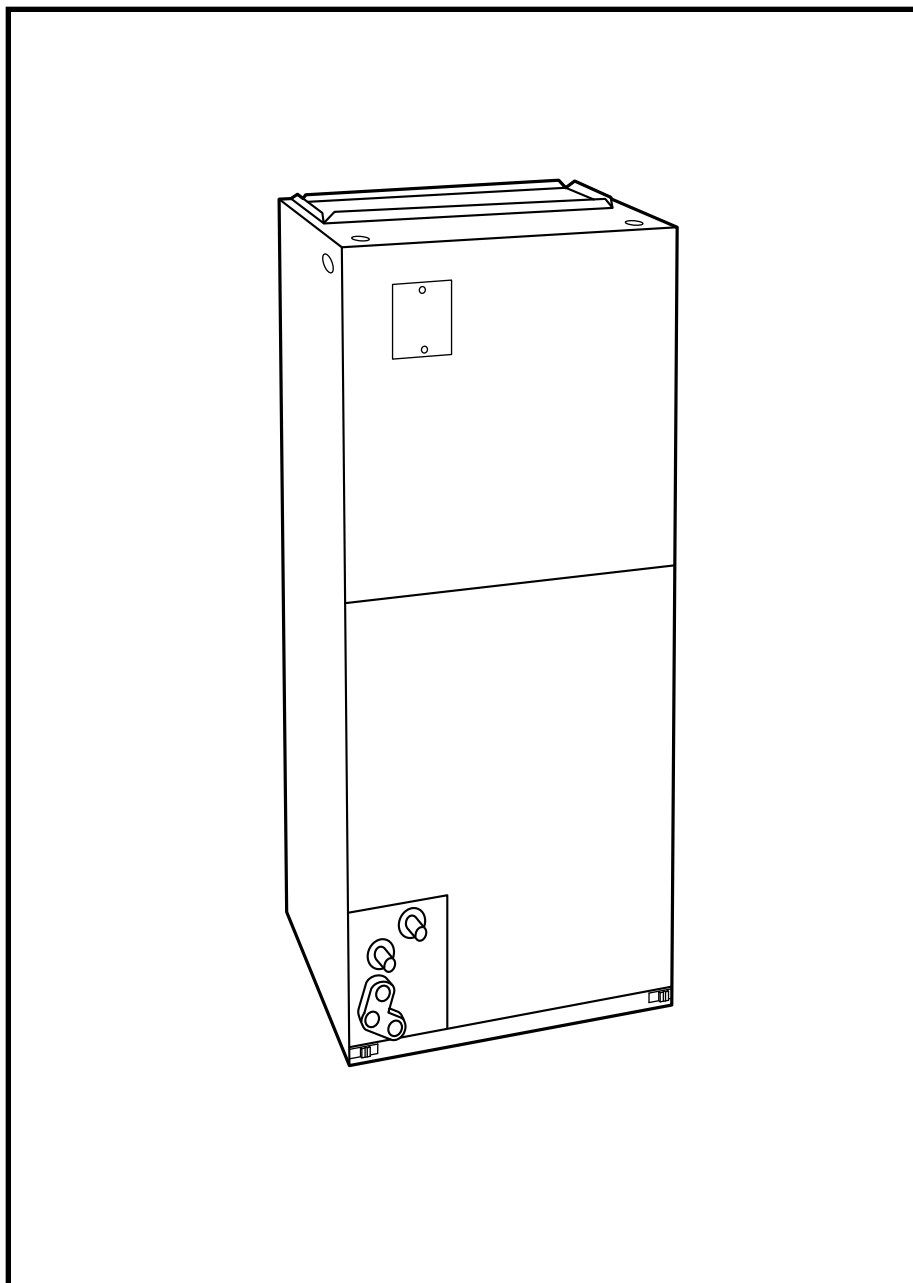
Quality Assurance



APPROVALS
ISO 9001
EN 29001
BS 5750 PART 1
ANSI/ASQC Q91



CERTIFICATE NO. FM 29652



FB4ASX Fan Coil — Air Handling Technology at its Finest

The FB4ASX fan coil is our very best fan-coil unit, the latest in air handling technology. It's the one to choose for high efficiency operation, application versatility, ease of installation, and high-tech performance. FB4ASX fan coils are cased, 1-piece units, (024–060) and modular (070), designed for vertical (upflow or downflow) and horizontal installations. Downflow installations require an accessory adapter package. The FB4ASX is compact, designed to fit right where you need it. The solid construction of the prepainted metal cabinet ensures years of rugged service, and it's packed with the most advanced components so you know it's going to perform like a deluxe fan coil should.

Inside, you'll find grooved copper tube and lanced sine wave aluminum fin coil. Solid-state cooling controls are included with every unit.

Efficient and dependable metering of the refrigerant is provided by our AccuRater®, a device which improves overall system reliability and is easily accessible for piston changeout and routine maintenance. Carrier also engineered the FB4ASX with dedicated refrigerant circuitry, and high-density cabinet insulation. For leak-free connections, the FB4ASX is equipped with sweat connections.

The FB4ASX offers superior versatility with its 3-speed PSC motor. Electric heaters are not offered as accessories for CE mark units.

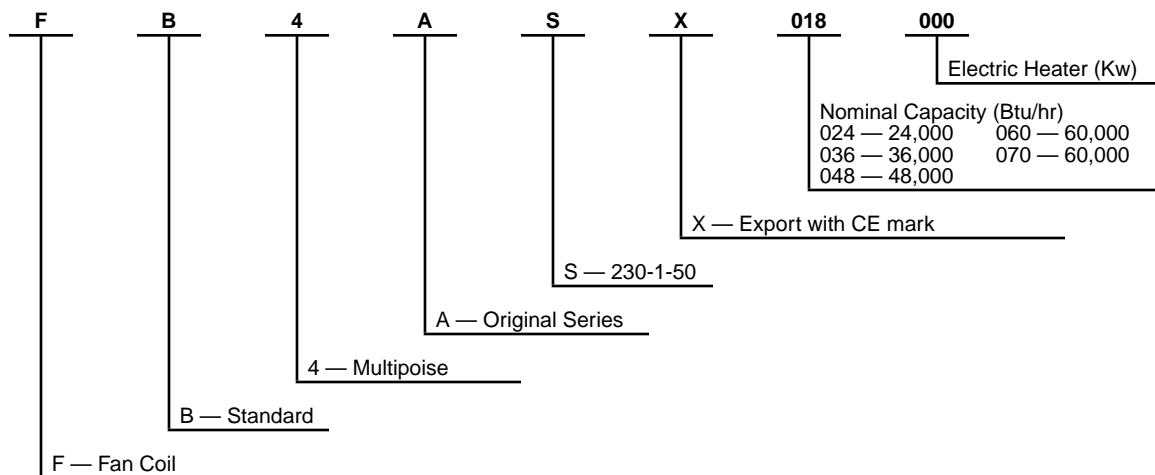
Compact and attractive with a low-maintenance, easy-to-clean, permanent filter, the FB4ASX is a favorite with contractors and

homeowners. Just consider the first-cost affordability, Carrier performance, and it's easy to see why.

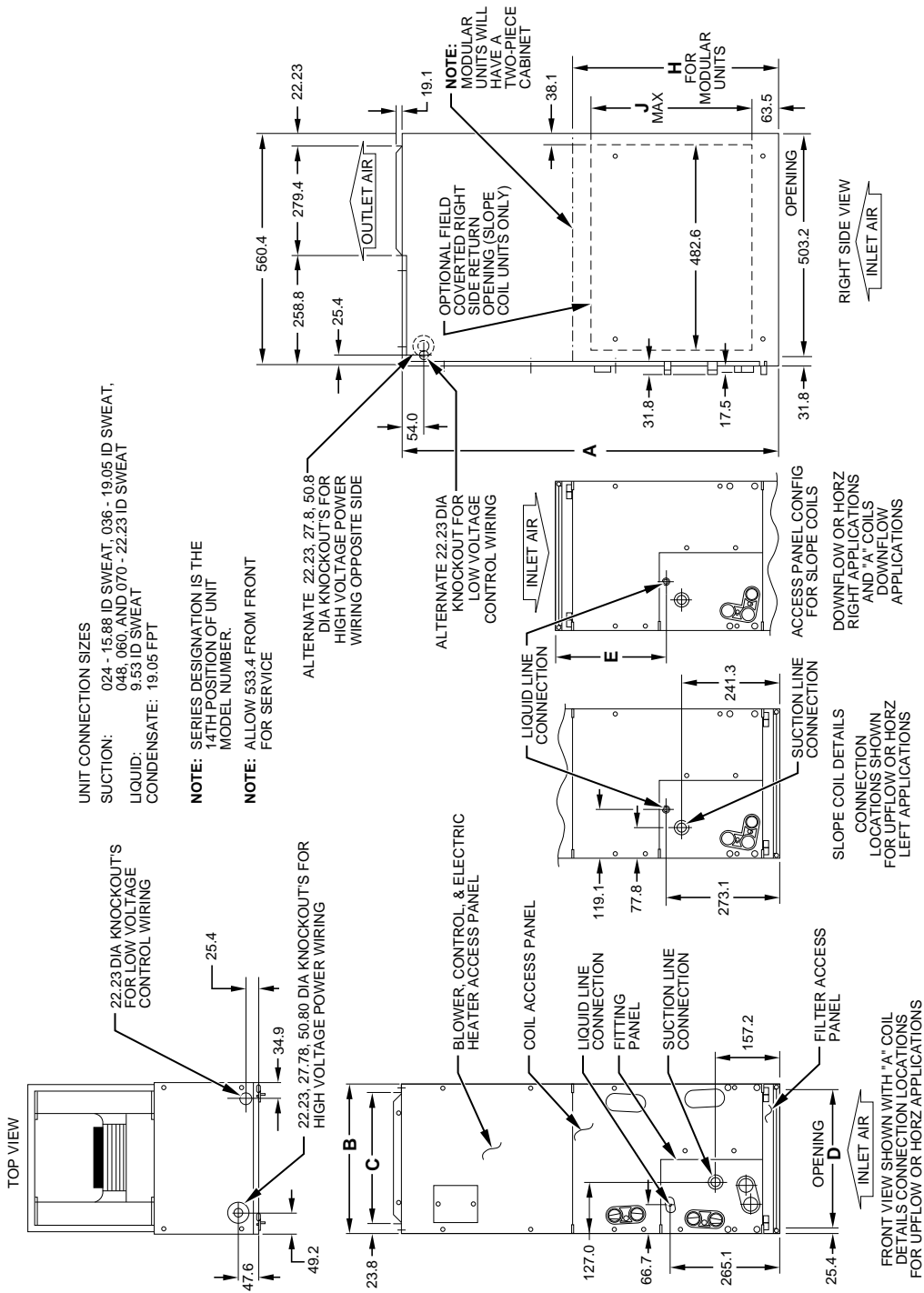
Features FB4ASX

- 5 models available
- All units multipoise — install upflow, horizontal, or downflow
- Grooved copper tubes
- Lanced sine wave aluminum fins
- Fully wettable coil
- Cooling controls on every unit
- 40va control power transformer
- Replaceable 5-amp blade-type automotive fuse protects against transformer secondary short
- Solid-state interlock control board
- 3-speed motor
- Easy access filter for cleaning — no tools required
- Inspection plate for cleaning coil face
- Prepainted galvanized steel sheetmetal
- High-density insulation
- Sweat connections
- AccuRater® piston
- Multiple electric entry
- Reinforced plastic condensate pan with brass drain connection inserts
- Secondary drain connection

Model number nomenclature



Dimensions



A96376

UNIT SIZE	COIL TYPE	A			B			C			D			E			SHIPPING WEIGHT	
		mm			mm			mm			mm			mm			kg	
FB4ASX024	Slope	1084.3			363.5			315.9			312.7			265.1			42.2	
FB4ASX036	Slope	1260.5			447.7			400.1			396.9			390.5			52.2	
FB4ASX048	A	1260.5			536.6			489.0			485.8			398.5			66.2	
FB4ASX060	A	1357.3			536.6			489.0			485.8			495.3			75.8	
FB4ASX070	A	485.8			627.1			577.9			576.3			641.4			88.9	

Physical data

SI

UNIT SIZE		024	036	048	060	070
NOMINAL CAPAC KILOWATTS*		2.0 8.2	3.0 12.3	4.0 17.3	5.0 17.6	5.0 17.6
OPERATING WEIGHT	KG	45	56	72	76	90
DIMENSIONS (VERT)						
HEIGHT	MM	1084	1260	1357	1357	1503
WIDTH	MM	364	448	536	536	612
DEPTH	MM	560	560	560	560	560
REFRIGERANT REFRIG CONTROL		R-22 Bypass AccuRater®				
UNIT ARRANGEMENT		Upflow/Downflow/Horizontal (LH)				
FAN		Direct-drive Centrifugal				
TYPE		Direct-drive Centrifugal				
WHEEL DIAMETER	MM	229	254	254	279	279
WIDTH	MM	152	178	229	229	229
AIRFLOW/NOM	L/S	350	550	750	825	825
MOTOR TYPE NOMINAL		PSC				
	KW	0.15	0.24	0.56	0.56	0.56
SPEEDS		16.7/15.0/13.3				
INDOOR COIL		Copper Tube/Aluminum Fin with Lanced Sine Wave				
FACE AREA	SQ M	0.21	0.28	0.41	0.55	0.69
ARRANGEMENT		Slope	Slope	"A"	"A"	"A"
ROWS		3	3	3	3	3
FIN DENSITY	FINS/M	551	551	551	551	551
FILTER		Permanent Type/25 mm (1 in.) Thick				
COIL CONNECTIONS		Sweat-Type				
VAPOR (OD)	MM	19	19	22.2	22.2	22.2
LIQUID (OD)	MM	9.5	9.5	9.5	9.5	9.5

* Based on nominal airflow rates, 19.4°C entering wet bulb and 7.2°C saturated suction temperature.

Performance data

COOLING CAPACITIES (Kw)

SI

UNIT SIZE	L/S BF	COIL REFRIGERANT TEMPERATURE (°C)																											
		2				4				6				8				10				12							
		Evaporator Air — Entering Wet-Bulb Temp (°C)																											
		22	20	18	16	22	20	18	16	22	20	18	16	22	20	18	16	22	20	18	16	22	20	18	16	22	20	18	16
024	300	TC	11.4	10.1	8.8	7.5	10.8	9.4	8.0	6.6	9.9	8.5	7.1	5.8	9.0	7.5	6.2	5.0	7.9	6.4	5.2	4.2	6.8	5.2	4.4	3.9			
	0.05	SC	5.6	6.0	6.4	6.6	5.3	5.6	5.9	6.2	5.0	5.3	5.5	5.8	4.6	4.9	5.1	5.0	4.2	4.4	4.5	4.2	3.8	3.9	4.0	3.9			
	350	TC	12.3	10.8	9.4	8.1	11.6	10.0	8.6	7.3	10.7	9.1	7.7	6.4	9.6	8.0	6.8	5.6	8.5	6.8	5.7	4.9	7.3	5.7	4.9	4.4			
	0.06	SC	6.0	6.4	6.9	7.4	5.8	6.1	6.5	6.9	5.4	5.8	6.1	6.4	5.0	5.4	5.6	5.6	4.5	4.8	5.0	4.9	4.1	4.3	4.5	4.4			
	375	TC	12.8	11.3	9.8	8.4	12.0	10.4	9.0	7.6	11.1	9.5	8.0	6.7	10.0	8.4	7.1	5.8	8.9	7.2	6.1	5.2	7.6	6.0	5.2	4.7			
	0.07	SC	6.3	6.8	7.3	7.8	6.0	6.4	6.8	7.3	5.7	6.0	6.4	6.7	5.2	5.6	6.0	5.8	4.8	5.1	5.4	5.2	4.4	4.6	4.8	4.7			
036	375	TC	15.1	13.0	11.2	9.5	13.9	11.9	10.1	8.2	12.6	10.6	8.7	7.0	11.3	9.2	7.5	5.8	9.8	7.9	6.3	4.8	8.3	6.4	5.3	4.4			
	0.05	SC	7.3	7.7	8.0	8.2	6.9	7.1	7.4	7.6	6.3	6.5	6.7	6.9	5.7	5.9	6.1	5.8	5.0	5.3	5.3	4.8	4.6	4.8	4.8	4.4			
	550	TC	19.3	16.7	14.4	12.2	17.7	15.2	12.9	10.7	16.1	13.6	11.4	9.2	14.4	11.9	9.8	7.8	12.6	10.1	8.3	6.7	10.7	8.2	6.9	6.0			
	0.08	SC	9.4	10.1	10.7	11.2	8.8	9.4	9.9	10.3	8.2	8.7	9.1	9.2	7.5	8.0	8.3	7.8	6.9	7.4	7.4	7.2	6.0	6.5	6.5	6.0			
	600	TC	20.2	17.5	15.1	12.8	18.6	16.0	13.6	11.4	16.9	14.4	12.0	9.7	15.1	12.6	10.4	8.3	13.3	10.7	8.8	7.2	11.2	8.7	7.3	6.4			
	0.09	SC	9.8	10.6	11.3	11.8	9.2	10.0	10.5	11.0	8.5	9.2	9.7	9.7	7.9	8.5	8.8	8.3	7.3	7.9	7.9	7.7	6.4	6.9	6.8	6.4			
048	575	TC	23.5	20.5	17.8	15.2	21.8	18.8	16.0	13.3	19.9	16.9	14.2	11.6	18.0	15.0	12.4	10.0	16.1	12.9	10.6	8.7	13.5	10.5	8.8	7.7			
	0.05	SC	11.3	12.0	12.7	13.3	10.5	11.3	11.9	12.4	9.8	10.5	11.1	11.5	9.1	9.7	10.1	10.0	8.2	8.7	9.1	8.7	7.4	7.8	8.0	7.7			
	750	TC	26.7	23.3	20.3	17.6	25.0	21.6	18.5	15.6	22.9	19.6	16.6	13.8	20.7	17.3	14.6	12.1	18.4	14.8	12.6	10.9	15.7	12.2	10.6	9.7			
	0.07	SC	13.0	14.0	15.0	16.0	12.3	13.4	14.2	14.9	11.5	12.5	13.3	13.8	10.7	11.5	12.3	12.1	9.8	10.7	11.2	10.9	8.7	9.4	9.8	9.7			
	825	TC	27.6	24.4	21.2	18.1	25.9	22.5	19.5	16.5	23.8	20.4	17.3	14.5	21.6	18.0	15.2	12.8	19.3	15.5	13.2	11.5	16.4	12.7	11.1	10.4			
	0.08	SC	13.6	14.8	16.0	17.0	12.7	14.0	15.1	16.2	12.0	13.2	14.1	14.5	11.3	12.3	13.0	12.8	10.4	11.3	11.8	11.5	9.4	10.1	10.5	10.4			
060	600	TC	25.7	22.1	19.0	16.1	23.6	20.2	17.2	14.2	21.6	18.2	15.1	12.2	19.5	16.0	13.0	10.1	17.0	13.7	10.8	8.1	14.3	11.0	9.0	7.5			
	0.03	SC	12.4	13.0	13.4	13.8	11.5	12.0	12.4	12.8	10.7	11.1	11.4	11.7	9.8	10.2	10.4	10.1	8.7	9.1	9.1	8.1	7.7	8.1	8.1	7.5			
	750	TC	29.6	25.8	22.3	18.9	27.5	23.7	20.2	16.8	25.2	21.3	17.7	14.2	22.8	18.8	15.2	11.8	20.2	16.2	13.0	10.0	17.1	13.1	10.8	9.2			
	0.05	SC	14.4	15.3	16.0	16.6	13.4	14.2	14.9	15.6	12.5	13.2	13.7	14.1	11.6	12.2	12.4	11.8	10.5	11.1	11.2	10.0	9.2	9.9	9.9	9.2			
	900	TC	32.6	28.5	24.7	21.0	30.3	26.2	22.3	18.6	27.8	23.7	19.8	16.0	25.2	21.0	17.2	13.7	22.4	18.0	14.6	11.8	19.0	14.7	12.3	10.7			
	0.06	SC	15.9	17.1	18.1	19.1	14.9	16.1	16.9	17.7	13.9	14.9	15.7	16.0	12.8	13.7	14.3	13.7	11.8	12.5	12.6	11.8	10.5	11.3	11.3	10.7			
070	600	TC	26.8	23.5	20.2	16.9	24.5	21.3	18.2	15.1	22.2	19.2	16.2	13.3	19.9	17.1	14.3	11.5	17.6	15.0	12.3	9.69	15.4	12.9	10.4	7.89			
	0.04	SC	13.4	14.0	14.5	15.1	12.4	12.9	13.4	13.8	11.5	11.9	12.2	12.6	10.5	10.8	11.1	11.4	9.56	9.77	9.97	9.69	8.60	8.72	8.84	7.89			
	750	TC	30.5	26.9	23.2	19.6	28.0	24.5	21.1	17.6	25.5	22.2	18.9	15.6	23.0	19.9	16.7	13.6	20.4	17.5	14.6	11.7	17.9	15.2	12.4	9.69			
	0.05	SC	15.4	16.2	17.1	18.0	14.3	15.1	15.8	16.6	13.3	13.9	14.6	15.2	12.3	12.8	13.3	13.6	11.3	11.6	12.0	11.7	10.2	10.5	10.7	9.69			
	950	TC	34.2	30.3	26.4	22.4	31.5	27.8	24.1	20.3	28.8	25.3	21.8	18.2	26.1	22.8	19.4	16.1	23.4	20.3	17.1	14.0	20.7	17.8	14.8	11.9			
	0.06	SC	17.5	18.8	20.1	21.4	16.4	17.6	18.7	19.8	15.4	16.3	17.3	18.2	14.3	15.1	15.9	16.1	13.2	13.8	14.5	14.0	12.2	12.6	13.1	11.9			

LEGEND

L/S — Liters per second TC — Total Capacity, KW

BF — Bypass factor SC — Sensible Capacity, KW

- Gross capacities shown do not include a deduction for evaporator fan motor heat.
- Contact Carrier for cooling capacities at conditions other than shown in table.
- Direct interpolation is permissible. Do not extrapolate.

4. SHC is based on 26.7°C temperature of air entering the indoor unit. At any other temperature, correct the SHC read from the table of cooling capacities as follows:

$$\text{Corrected SHC}_{\text{KW}} = \text{SHC} + [1.23 \times 10^{-3} \times (1-\text{BF}) \times (\text{Cdb}-26.7) \times \text{L/s}]$$

Observe the rule of signs. Above 26.7°C, SHC correction will be positive; add it to SHC. Below 26.7°C, SHC correction will be negative; subtract it from SHC.

5. Formula:

$$\text{Cldb} = \text{Cedb} - \frac{\text{SHC}_{\text{KW}}}{1.23 \times 10^{-3} \times (\text{L/s})}$$

Leaving wet bulb = wet bulb temperature corresponding to enthalpy of air leaving coil (hlwb).

$$\text{hlwb} = \text{hewb} - \frac{\text{TC}_{\text{KW}}}{1.20 \times 10^{-3} \times (\text{L/s})}$$

Where hewb is enthalpy of air entering evaporator coil (kJ/kg).

Performance data continued

AIRFLOW PERFORMANCE AIRFLOW RATE — L/S

SI

UNIT SIZE	BLOWER MOTOR SPEED	EXTERNAL STATIC PRESSURE (Pa)				
		25	50	75	100	125
024	HIGH	373	345	303	238	—
	MED	340	319	269	—	—
	LOW	266	247	—	—	—
036	HIGH	609	571	531	486	438
	MED	529	499	468	432	394
	LOW	458	437	414	381	—
048	HIGH	812	765	716	661	595
	MED	770	724	678	628	—
	LOW	713	671	630	579	—
060	HIGH	885	844	800	755	706
	MED	803	767	731	690	—
	LOW	671	647	624	—	—
070	HIGH	1038	996	953	906	852
	MED	937	908	875	838	793
	LOW	781	767	748	724	—

NOTES:

Fan performance based on wet coil with factory-supplied filter; no internal heaters.
Not recommended for use above 150 Pa external static pressure.

Physical data

ENGLISH

UNIT SIZE		024	036	048	060	070
NOMINAL CAPAC 1000 BTU/HR*	TR	2.0	3.0	4.0	5.0	5.0
		26	42	59	60	60
OPERATING WEIGHT	LB	98	128	158	168	199
DIMENSIONS (VERT)						
HEIGHT	IN.	42-11/16	49-5/8	53-7/16	53-7/16	59-3/16
WIDTH	IN.	14-5/16	17-5/8	21-1/8	21-1/8	24-11/16
DEPTH	IN.	22-1/16	22-1/16	22-1/16	22-1/16	22-1/16
REFRIGERANT		R-22				
REFRIG CONTROL		Bypass AccuRater®				
UNIT ARRANGEMENT		Upflow/Downflow/Horizontal (LH)				
FAN		Direct-drive Centrifugal				
TYPE						
WHEEL DIAMETER	IN.	9	10	10	11	11
WIDTH	IN.	6	7	9	9	9
AIRFLOW/NOM.	CFM	750	1200	1600	1750	1750
MOTOR TYPE		PSC				
NOMINAL SPEEDS	HP RPM	1/5	1/3	3/4	3/4	3/4
		1000/900/800				
INDOOR COIL		Copper Tube/Aluminum Fin with Lanced Sine Wave				
FACE AREA	SQ FT	2.23	2.97	4.45	5.93	7.42
ARRANGEMENT		Slope	Slope	"A"	"A"	A
ROWS		3	3	3	3	3
FIN DENSITY	FINS/IN.	14.5	14.5	14.5	14.5	14.5
FILTER		Permanent Type/25 mm (1 in.) Thick				
COIL CONNECTIONS		Sweat-Type				
VAPOR (ODS)	IN.	3/4	3/4	7/8	7/8	7/8
LIQUID (ODS)	IN.	3/8	3/8	3/8	3/8	3/8

* Based on nominal airflow rates, 67°F entering wet bulb and 45°F saturated suction temperature.

Performance data

ENGLISH

COOLING CAPACITIES (MBtuh)

UNIT SIZE	CFM BF		COIL REFRIGERANT TEMPERATURE (°F)														
			35			40			45			50			55		
			Evaporator Air — Entering Wet-Bulb Temp (°F)														
			72	67	62	72	67	62	72	67	62	72	67	62	72	67	62
024	600	TC	39	33	27	36	30	23	32	25	19	27	20	15	22	14	13
		SC	19	21	22	17	19	20	16	17	18	14	15	15	12	12	13
	750	TC	43	36	30	40	32	26	35	28	21	30	22	18	24	16	15
		SC	20	23	25	19	21	23	17	19	21	15	17	18	13	14	15
	800	TC	45	37	31	41	33	27	36	29	22	31	23	19	25	17	16
		SC	21	24	26	20	22	24	18	20	22	16	18	19	14	15	16
036	800	TC	53	43	35	47	38	29	41	31	23	34	25	18	27	18	15
		SC	25	27	28	23	24	25	20	21	22	17	18	18	15	16	15
	1200	TC	69	56	46	61	49	39	53	42	31	45	33	25	35	24	21
		SC	33	36	39	30	33	35	27	29	31	24	26	25	20	22	21
	1300	TC	72	59	48	64	52	41	56	44	33	47	35	27	37	25	22
		SC	34	38	41	31	35	37	28	31	33	25	28	27	21	23	22
048	1200	TC	82	68	56	74	60	47	65	51	39	56	41	32	44	30	26
		SC	39	42	45	35	39	41	32	35	37	28	30	32	24	26	26
	1600	TC	93	77	64	85	69	55	75	59	46	64	47	39	51	35	32
		SC	44	49	54	41	46	49	37	41	45	33	37	39	28	31	32
	1750	TC	96	81	66	88	72	58	78	61	48	67	49	41	53	36	34
		SC	46	52	57	42	48	53	39	44	47	35	39	41	30	33	34
060	1300	TC	91	74	60	81	65	51	72	55	41	60	44	31	47	31	26
		SC	43	46	48	39	41	43	35	37	38	30	32	31	25	27	26
	1600	TC	104	86	70	94	76	60	83	64	47	71	52	38	56	37	32
		SC	50	54	57	45	49	52	41	44	45	36	39	38	30	33	32
	1900	TC	114	95	77	103	84	66	91	72	53	78	57	43	62	42	36
		SC	54	60	65	50	55	59	45	49	52	40	43	43	34	37	36
070	1300	TC	91	75	61	83	67	51	73	57	41	62	44	32	48	31	26
		SC	42	45	48	39	41	43	34	37	38	30	31	31	25	25	26
	1600	TC	102	85	70	93	76	59	83	65	48	71	51	38	56	36	31
		SC	47	52	56	43	48	51	39	43	45	34	37	38	29	31	31
	2000	TC	113	95	78	104	85	68	93	73	55	80	58	46	64	42	38
		SC	53	59	65	49	55	60	44	50	53	39	44	46	34	37	38

LEGEND

BF — Bypass factor

CFM — Cubic Feet per Minute

TC — Total Capacity, 1000 Btu/hr

SC — Sensible Capacity, 1000 Btu/hr

1. Gross capacities shown do not include a deduction for evaporator fan motor heat.

2. Contact Carrier for cooling capacities at conditions other than shown in table.

3. Direct interpolation is permissible. Do not extrapolate.

4. SHC is based on 80°F db temperature of air entering the indoor unit. At any other temperature, correct the SHC read from the table of cooling capacities as follows:

$$\text{Corrected SHC}_{\text{Btu/h}} = \text{SHC} + [1.10 \times (1-\text{BF}) + (\text{Fdb}-80) \times \text{cfm}]$$

Observe the rule of signs. Above 80°F, SHC correction will be positive; add to it SHC. Below 80°F, SHC correction will be negative; subtract it from SHC.

5. Formula:

$$\text{Fldb} = \text{Fedb} - \frac{\text{SHC}_{\text{Btu/h}}}{1.10 \times (\text{cfm})}$$

Leaving wet bulb = wet bulb temperature corresponding to enthalpy of air leaving coil (hlwb).

$$\text{hlwb} = \text{hewb} - \frac{\text{TC}_{\text{Btu/h}}}{4.50 \times (\text{cfm})}$$

Where hewb is enthalpy of air entering evaporator coil (Btu/pound).

Performance data continued

AIRFLOW PERFORMANCE* AIRFLOW RATE — CFM

ENGLISH

UNIT SIZE	BLOWER MOTOR SPEED	EXTERNAL STATIC PRESSURE — In. wc				
		0.10	0.20	0.30	0.40	0.50
024	HIGH	791	731	643	504	—
	MED	720	677	570	—	—
	LOW	564	523	—	—	—
036	HIGH	1290	1210	1125	1030	928
	MED	1122	1058	992	916	835
	LOW	970	925	878	808	—
048	HIGH	1720	1622	1518	1400	1260
	MED	1632	1535	1436	1330	1212
	LOW	1510	1422	1334	1226	—
060	HIGH	1876	1788	1696	1600	1496
	MED	1702	1625	1548	1462	—
	LOW	1422	1372	1322	—	—
070	HIGH	2200	2110	2020	1920	1805
	MED	1985	1925	1855	1775	1680
	LOW	1655	1625	1585	1535	—

NOTES:

Fan performance based on wet coil with factory-supplied filter; no internal heaters.
Not recommended for use above 0.60-in. wg external static pressure.

Carrier accessories

ITEM	ACCESSORY PART NO.*	FAN COIL SIZE USED WITH
Disconnect Kit	KFADK0101DSC	Cooling controls and heaters 3 kw through 10 kw
Downflow Base Kit	KFACB0101CFB	024
	KFACB0201CFB	036
	KFACB0301CFB	048, 060
	KFACB0401CFB	070
Downflow Conversion Kit	KFADC0201SLP	Slope Coil Units — 024, 036
	KFADC0401ACL	A-Coil Units — 048, 060, 070
Single-Point Wiring Kit	KFASP0101SPK	15 and 20 kw Fuse
Filter Kit (12 Pack)	KFAFK0112SML	024
	KFAFK0212MED	036
	KFAFK0312LRG	048, 060
	KFAFK0412XXL	070

* Factory-authorized and listed, field installed.

ESTIMATED SOUND POWER LEVEL FOR FB4ASX FAN COILS*

UNIT SIZE	SPEED SETTING	Lw (dB)											MINOR CHANGES IN:	
		English		SI		Octave Band Center Frequency (HZ)							Airflow	Ext Static
		CFM	ESP	L/S	ESP	63	125	250	500	1000	2000	4000	EN: +/-50	+/-0.05
024	HIGH	750	0.17	354	42	76	72	68	67	63	61	57	0.3	0.7
036	HIGH	1200	0.44	566	110	80	76	72	69	69	65	61	0.2	0.6
048	HIGH	1600	0.22	755	55	83	79	75	72	72	68	64	0.1	0.4
060	MED	1600	0.36	755	90	77	73	69	68	63	61	57	0.1	0.4
070	HIGH	2000	0.37	944	92	75	71	67	64	62	60	56	0.1	0.4

METHOD: Estimated Fan Sound Power (in decibels 10E-12 watts) is calculated in accordance with procedure described in ASHRAE 1987 HVAC "Systems and Applications Handbook," Chapter 52, "Sound and Vibration Control," using the "Specific Sound Power Level" approach.

ACCURACY: This is a prediction method, based on an accepted method which has demonstrated satisfactory results in field applications. However, field test results may generate sound pressure values which differ from these predicted values, as the current state of the art in determining sound power varies in accuracy from 0.2 db in mid-range (250 to 4000 Hz bands) to 3 to 4 db in 125 and 8000 Hz bands and up to 6 to 8 db in 63 Hz band.

MINOR CHANGES: Use for estimating sound power at other conditions of airflow and external static pressure.

Conversion factors

METRIC TECH	X =	ENGLISH UNIT	X =	SI UNIT
Area				
cm			100	mm
cm	0.1550	in.	645.2	mm
m			1.0	m
m	10.76	ft	0.09290	m
Length				
µm			1.0	µm
µm	39.37	micro-in.	0.0254	µm
mm			1.0	mm
mm	0.03937	in.	25.4	mm
mm	0.003281	ft	304.8	mm
m			1.0	m
m	3.281	ft	0.3048	m
m	1.094	yd	0.9144	m
Mass				
g			1.0	g
g	0.03527	oz	28.35	g
kg			1.0	kg
kg	2.205	lb	0.4536	kg
tonne. Mg			1.0	tonne. Mg
tonne. Mg	1.102	U.S. ton (2000 lb)	0.9072	tonne. Mg
Power				
kcal/h			1.163	W
kcal/h	3.968	Btu/h	0.2931	W
HP metric			0.7355	kW
HP metric	0.9863	HP (550 $\frac{ft \cdot lb}{s}$)	0.7457	kW
Mcal/h			1.163	kW
Mcal/h	0.3307	Ton ref.	3.517	kW
Pressure				
mm w.g 4°C			9.806	Pa
mm w.g 4°C	0.03937	in H ₂ O 39.2°F	249.1	Pa
mm Hg 0°C			0.1333	kPa
mm Hg 0°C	0.03937	in Hg 32°F	3.386	kPa
kg/cm ²			98.07	kPa
kg/cm ²	14.22	psi	6.895	kPa
mH ₂ O	3.281	ft H ₂ O	2.989	kPa

METRIC TECH	X =	ENGLISH UNIT	X =	SI UNIT
Temperature				
Interval				
°C			1.0	k
°C	1.8	°F	0.5556	°C
Velocity				
m/s			1.0	m/s
m/s	3.281	ft/s	0.3048	m/s
m/s	196.9	ft/min	0.00508	m/s
Volume				
mm			1.0 x 10 ⁻⁶	L
mm	6.102x10 ³	in.	0.01639	L
L			1.0	L
L	0.03531	ft	28.32	L
m			1.0	m
m	1.308	yd	0.7646	m
L	0.2642	U.S. gal	3.785	L
L	2.113	U.S. pint	0.4732	L
mL . cm			1.0	mL
mL . cm	0.03381	U.S. oz	29.57	mL
Volume/Time				
m ³ /h			0.2778	L/s
m ³ /h	0.5886	ft ³ /min	0.4719	L/s
m ³ /h	4.403	U.S. gal/min	0.06309	L/s
L/h			2.778x10 ⁻⁴	L/s
L/h	4.303x10 ³	U.S. gal/min	0.06309	L/s
(m ³ /h)/ (1000 kcal/h)	1.780	cfm/ton	0.1342	L/s • kW
METRIC TECH	CONVERSION FACTOR	ENGLISH UNIT	CONVERSION FACTOR	SI UNIT
Temperature				
°C			°C + 273.15 K	
°C	(°C x 1.8) + 32	°F	(°F - 32) ÷ 1.8°C	

Applications

Electric heaters are not offered as accessories for the CE mark fan coil units. If heaters are required for the application, use certified heaters to be installed in the air duct per local electrical codes.

Units may be installed in a conditioned space or in an

unconditioned space. They are tested and approved for installation in unconditioned space per ARI Standards (27°C; 80°F db, 24°C; 75°F wb indoor temperature; 27°C; 80°F db outdoor temperature).

Insulate supply and return air ductwork in unconditioned space. It

is recommended that insulation with vapor barrier be used.

Sound—For acoustical treatment of ductwork, see FB4ASX Installation, Start-Up, and Service Instructions.

Matched system

