

TECHNICAL SPECIFICATIONS

FS4BE Series

R-410A High Efficiency Air Conditioner 14 SEER Residential System 1-1/2 – 5 Ton Capacity

The FS4BE Series now offers the choice of an air conditioner that uses a more efficient and environmentally friendly refrigerant designated R-410A. The FS4BE Series of air conditioners offers exceptional performance. The unit, when combined with our engineered coils or air handlers, offers a full line of quality, split system cooling equipment.



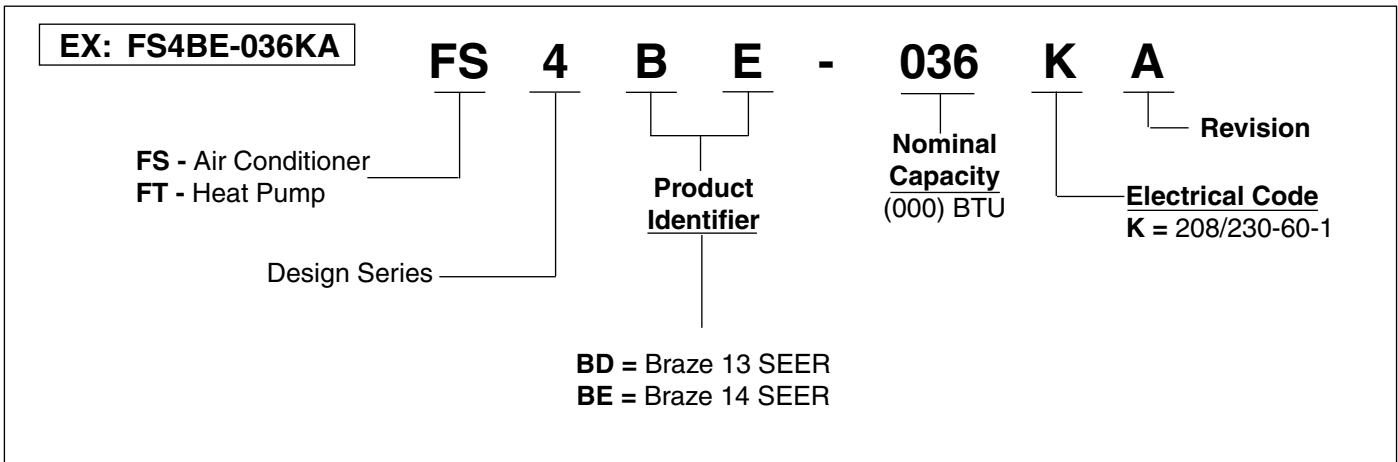
WARRANTY

- This product offers a 10-year all-parts warranty.
- This product offers a 10 year Quality Pledge to replace the entire unit, if the unit's major component (heat exchanger or compressor) fails within the first 10 years of operation, to the original owner. All split system products must be installed with a matched indoor air handler or indoor coil to qualify.
- Consumer product registration required for both 10 year All Parts Warranty and Quality Pledge within a limited period of time after the installation. See current warranty document or visit our consumer web site listed on the back of this document for warranty details.

FEATURES and BENEFITS

- **R-410A Refrigerant** – Earth friendly non-ozone depleting refrigerant.
- **Designed using galvanized steel** – with a polyester urethane coat finish. The 950 hour salt spray finish resists corrosion 50% better than comparable units.
- **Permanently Lubricated Motor** – A heavy duty PSC motor for long lasting reliability and quiet operation. Requires no maintenance and is completely protected from rain and snow.
- **Swept-Wing Fan Blade** – Designed to significantly reduce unwanted noise.
- **Louvered Condenser Guard** – Durable metal guard protects the coil from yard hazards and extreme weather.
- **Removable Top Grille Assembly** – Allows ease of service from the top without disconnecting fan motor leads.
- **High Pressure Switch** – Protects against abnormally high system pressures. Auto-reset feature prevents nuisance service visits.
- **Liquid Line Filter Drier** – Included with unit, field installed.
- **One Piece Top/Orifice** – Designed for maximum airflow and quiet operation.
- **Easy Compressor and Control Access** – Designed to make servicing easier for the contractor, access panels are provided to all controls and the compressor from the side of the unit.
- **Composite Base Pan** – Absorbs sound and is corrosion resistant. Composite is also stronger and lighter than steel.
- **Micro-Channel Coils** – All aluminum coils in 1.5 thru 4 ton models which provides high corrosion resistance.

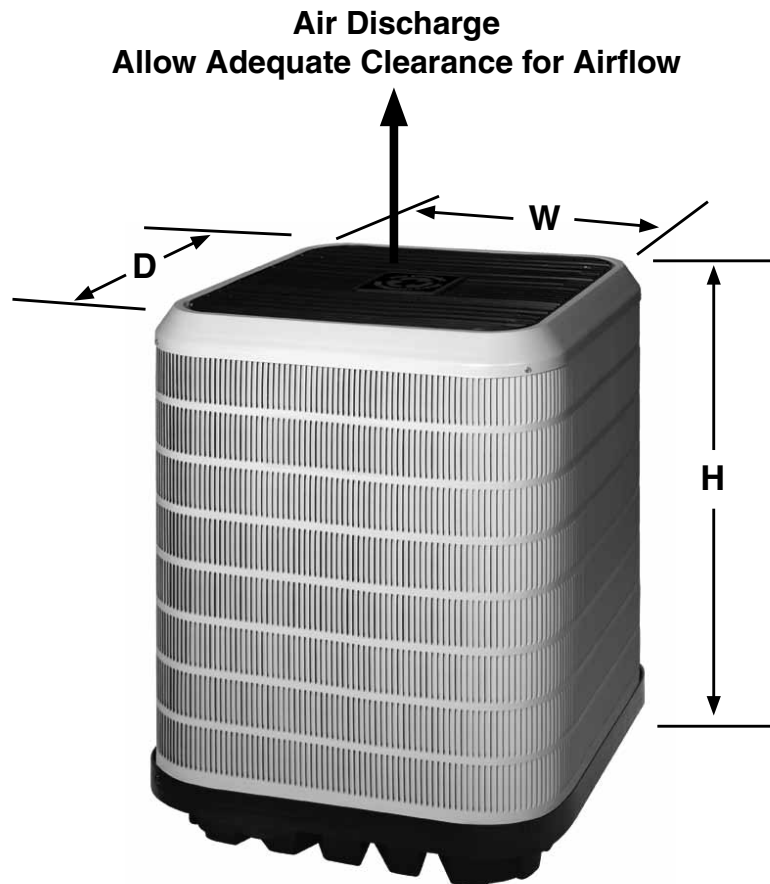
MODEL IDENTIFICATION CODES



DIMENSIONS

AIR CONDITIONER OUTDOOR SECTION

FS4BE	018KA	024KA	030KA	036KA	042KA	048KA	060K
H	27 1/2"	31 1/2"	27 1/2"	35 1/2"	39 1/2"	39 1/2"	43"
W	22 3/4"	22 3/4"	30 3/4"	30 3/4"	30 3/4"	30 3/4"	30 3/4"
D	22 3/4"	22 3/4"	30 3/4"	30 3/4"	30 3/4"	30 3/4"	30 3/4"



PHYSICAL AND ELECTRICAL SPECIFICATIONS / OUTDOOR UNITS

14 SEER — High Efficiency — Single Phase

Model Number FS4BE-		018KA	024KA	030KA	036KA	042KA	048KA	060K	
Electrical Data	Volts-Cycles-Phase (1)	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1	
	Total Amps	9.9	14.4	15.0	15.1	19.4	21.3	27.6	
	Delay Fuse Max. (2)	20	30	30	30	40	45	60	
	Min. Circuit Ampacity	12.1	17.7	18.5	18.6	23.9	26.3	34.2	
Component Data	Coil	Area	10.0	11.7	15.2	20.3	22.8	25.4	
		Rows-FPI	1-23	1-23	1-18	1-18	1-18	1-18	2-16
		Tube Dia	Micro-Channel						3/8" O.D.
	Fan Motor	Type	PSC						
		Amps	0.9	0.9	0.9	1.0	1.5	1.5	1.4
		HP	0.13	0.13	0.13	0.20	0.25	0.25	0.25
	Compressor Data	RLA	9.0	13.4	14.1	14.1	17.9	19.8	26.2
LRA		48.0	58.3	73.0	77.0	112.0	109.0	134.0	
Refrigerant suction line O.D. NOTE: Liquid line is 3/8" O.D. for entire length.	0-24 ft.	3/4"	3/4"	3/4"	3/4"	7/8"	7/8"	7/8"	
	25-39 ft.	3/4"	3/4"	3/4"	7/8" (3)	7/8"	7/8"	1-1/8" (4)	
	40-75 ft.	3/4"	3/4"	3/4"	7/8" (3)	7/8"	7/8"	1-1/8" (4)	
Approximate Weight (lbs.)	Net	124	144	179	188	198	208	223	
	Ship	130	151	187	197	207	217	235	
Sound Ratings (dB)	74	74	75	79	79	79	79	79	

(1) Operating Voltage Range: 187v min. - 253v max.

(2) HACR Type Circuit Breakers may be used.

(3) Requires 7/8" to 3/4" reducer from line to unit.

(4) Requires 7/8" to 1-1/8" reducer from line to unit.

(5) Additional charge for line sets above 15 feet.

Values based on suction line as follows with 3/8" liquid line.

a) 3/4" = 0.6 oz. per additional foot.

b) 7/8" = 0.7 oz. per additional foot.

c) 1 1/8" = 0.8 oz. per additional foot.

ACCESSORIES - Condensing Unit

Start Assist Kit - 912933

Provides additional starting torque for the compressor motor when operating with low line voltage or high operating temperatures.

SYSTEM COOLING CAPACITIES

14 SEER — High Efficiency — Single Phase

Outdoor Unit	Indoor Unit	BTUH	SEER	EER	CFM
FS4BE-018KA	C7B(A,H)M01824(C,U)-A+TXV	18,000	14	12.2	680
FS4BE-018KA	C7B(A,H)M01824(C,U)-B+TXV	18,000	14	12.2	680
FS4BE-024KA	C7B(A,H)M01824(C,U)-A+TXV	24,000	14	12.2	845
FS4BE-024KA	C7B(A,H)M01824(C,U)-B+TXV	24,000	14	12.2	845
FS4BE-030KA	C7B(A,H)M03036(C,U)-A+TXV	29,000	14	12.0	945
FS4BE-030KA	C7B(A,H)M03036(C,U)-B+TXV	29,000	14	12.0	945
FS4BE-036KA	C7B(A,H)M03642(C,U)-B+TXV	34,800	14	12.2	1110
FS4BE-036KA	C7B(A,H)M03648(C,U)-C+TXV	34,800	14	12.2	1110
FS4BE-042KA	C7B(A,H)M03642(C,U)-B+TXV	40,500	14	12.2	1305
FS4BE-042KA	C7B(A,H)M03648(C,U)-C+TXV	40,500	14	12.2	1305
FS4BE-048KA	C7B(A,H)M048(C,U)-C+TXV	45,500	14	11.7	1525
FS4BE-048KA	C7B(A,H)M048(C,U)-D+TXV	45,500	14	11.7	1525
FS4BE-060K	C6BH-X60C-(C,D)	59,000	14	12.2	1650

Outdoor Unit	Indoor Unit	BTUH	SEER	EER	CFM
FS4BE-018KA	B6BM-X24K-A	18,000	14	12.2	600
FS4BE-018KA	B6BM-X24K-B	18,000	14	12.2	600
FS4BE-024KA	B6BM-X24K-A	24,000	14	12.2	705
FS4BE-024KA	B6BM-X24K-B	24,000	14	12.2	705
FS4BE-030KA	B6BM-X30K-A	30,200	14	12.2	875
FS4BE-030KA	B6BM-X30K-B	30,200	14	12.2	875
FS4BE-036KA	B6BM-X36K-B	34,000	14	12.2	905
FS4BE-042KA	B6BM-X42K-B	40,000	14	12.2	1225
FS4BE-048KA	B6BM-X48K-C	45,500	14	11.7	1450
FS4BE-060K	B6BM-X60K-C	59,000	14	11.7	1700

See current AHRI Directory for certified combinations and ratings. All ratings are with time delay relay.
www.ahridirectory.org

14 SEER + LOOSE COIL COOLING EXPANDED RATINGS (CONTINUED)

FS4BE-042KA C7B(A,H)M03642(C,U)-B+TXV Kit

CFM	O.D.T		65°F			75°F			85°F			95°F			105°F			115°F		
	E.D.B.	E.W.B.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.
1225	80	62	43.0	33.1	2.53	41.5	32.9	2.77	39.6	33.0	3.05	37.8	32.4	3.36	35.86	34.03	3.71	33.77	32.04	4.10
	80	67	47.1	27.4	2.54	45.2	27.2	2.79	43.3	27.5	3.07	41.3	27.0	3.38	39.10	26.61	3.73	36.83	24.74	4.13
	80	72	51.6	21.2	2.58	49.6	21.1	2.82	47.5	21.5	3.10	45.2	21.1	3.41	42.81	20.81	3.77	40.30	21.37	4.16
	75	62	42.9	27.8	2.53	41.3	27.6	2.76	39.5	27.7	3.05	37.6	27.2	3.36	35.65	25.20	3.71	33.59	27.00	4.10
1400	80	62	44.0	35.4	2.60	42.4	36.1	2.83	40.5	35.2	3.12	38.5	34.8	3.43	36.55	34.53	3.78	34.45	34.11	4.18
	80	67	48.1	29.1	2.61	46.2	30.0	2.86	44.1	29.2	3.15	42.0	28.9	3.45	39.72	28.95	3.80	37.36	28.97	4.20
	80	72	52.6	22.3	2.64	50.5	23.3	2.89	48.2	22.6	3.17	45.9	22.4	3.48	43.38	22.63	3.84	40.74	22.80	4.23
	75	62	43.9	29.5	2.60	42.2	30.2	2.83	40.2	29.4	3.12	38.3	29.1	3.43	36.24	29.03	3.78	34.05	28.80	4.17
1575	80	62	44.9	37.9	2.67	43.1	38.1	2.91	41.2	37.2	3.19	39.2	36.7	3.50	37.27	36.01	3.85	35.39	35.24	4.25
	80	67	48.8	31.2	2.69	46.8	31.6	2.93	44.7	30.8	3.21	42.5	30.7	3.52	40.20	30.55	3.87	37.76	30.72	4.27
	80	72	53.3	23.8	2.71	51.1	24.4	2.95	48.8	23.7	3.24	46.3	23.7	3.55	43.76	23.63	3.91	41.12	23.95	4.30
	75	62	44.6	31.6	2.66	42.8	31.9	2.90	40.8	31.1	3.18	38.8	30.9	3.50	36.72	30.46	3.85	34.47	30.48	4.24

FS4BE-048KA C7B(A,H)M048(C,U)-C+TXV Kit

CFM	O.D.T		65°F			75°F			85°F			95°F			105°F			115°F		
	E.D.B.	E.W.B.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.
1400	80	62	48.1	37.3	2.77	46.2	37.0	3.07	44.2	37.2	3.39	42.1	36.5	3.75	39.87	38.15	4.16	37.61	35.99	4.60
	80	67	52.3	30.8	2.81	50.3	30.6	3.10	48.1	30.9	3.41	45.8	30.3	3.78	43.45	29.85	4.18	40.99	27.77	4.64
	80	72	57.5	23.9	2.84	55.1	23.8	3.12	52.7	24.3	3.44	50.1	23.8	3.81	47.38	23.48	4.21	44.45	24.10	4.66
	75	62	47.9	31.3	2.77	45.9	31.0	3.06	44.0	31.2	3.38	41.9	30.5	3.75	39.63	28.24	4.16	37.33	30.24	4.60
1600	80	62	49.1	39.9	2.86	47.1	40.6	3.15	45.0	39.6	3.47	42.9	39.1	3.83	40.67	38.73	4.24	38.45	38.13	4.69
	80	67	53.4	32.7	2.89	51.2	33.6	3.17	49.0	32.8	3.49	46.6	32.4	3.86	44.16	32.43	4.26	41.59	32.44	4.72
	80	72	58.4	25.2	2.92	55.9	26.3	3.20	53.1	25.5	3.53	50.5	25.3	3.88	47.84	25.41	4.29	45.09	25.56	4.74
	75	62	48.8	33.2	2.85	46.9	33.9	3.14	44.8	33.0	3.46	42.6	32.6	3.83	40.28	32.51	4.24	37.87	32.38	4.68
1800	80	62	49.9	42.7	2.94	47.9	42.8	3.23	45.8	41.7	3.55	43.7	41.1	3.91	41.56	40.15	4.32	39.48	39.31	4.77
	80	67	54.2	35.0	2.97	52.0	35.4	3.25	49.7	34.6	3.57	47.2	34.4	3.94	44.67	34.18	4.34	42.00	34.34	4.80
	80	72	58.8	26.9	3.00	56.4	27.4	3.28	53.8	26.6	3.59	51.2	26.6	3.96	48.40	26.45	4.37	45.55	26.76	4.82
	75	62	49.6	35.5	2.94	47.6	35.7	3.23	45.4	34.8	3.54	43.1	34.6	3.91	40.76	34.07	4.32	38.30	34.07	4.76

FS4BE-060K with C6BH-X60C-(C,D) + TDR

CFM	O.D.T		75°F			85°F			95°F			105°F			115°F		
	E.D.B.	E.W.B.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.
1600	80	62	59.6	49.6	3.92	57.1	48.7	4.32	54.2	47.8	4.77	51.0	47.3	5.27	47.6	45.5	5.84
	80	67	64.6	42.2	3.95	61.8	41.0	4.36	58.6	39.5	4.81	55.1	38.1	5.31	51.3	36.5	5.89
	80	72	70.9	33.8	3.99	67.7	32.7	4.41	64.0	31.5	4.86	60.1	30.1	5.37	55.6	28.7	5.94
	75	63	60.2	40.8	3.93	57.6	39.6	4.33	54.7	38.3	4.78	51.4	36.9	5.28	47.9	35.3	5.85
1700	80	62	60.3	51.3	3.97	57.7	50.2	4.36	54.7	49.9	4.81	51.6	48.8	5.31	48.1	47.3	5.89
	80	67	65.3	43.1	4.01	62.4	42.0	4.40	59.1	40.6	4.85	55.6	39.2	5.35	51.7	37.6	5.93
	80	72	71.3	34.5	4.06	68.1	33.5	4.46	64.4	32.2	4.90	60.3	30.9	5.41	55.6	29.4	5.98
	75	63	60.9	41.9	3.98	58.2	40.7	4.37	55.2	39.4	4.82	51.9	37.9	5.32	48.2	36.3	5.90
1800	80	62	60.8	53.8	4.03	58.3	52.3	4.41	55.3	51.3	4.85	52.0	50.6	5.35	48.5	48.5	5.93
	80	67	65.9	44.2	4.07	62.9	43.1	4.45	59.6	41.7	4.89	55.9	40.3	5.39	52.0	38.6	5.97
	80	72	71.7	35.3	4.12	68.5	34.2	4.50	64.6	33.0	4.94	60.3	31.6	5.44	55.9	30.0	6.02
	75	63	61.5	42.9	4.04	58.7	41.8	4.42	55.6	40.4	4.86	52.2	38.9	5.36	48.5	37.3	5.94

14 SEER AHU COOLING EXPANDED RATINGS (CONTINUED)

FS4BE-042KA B6BM-X42K-B

CFM	O.D.T		65°F			75°F			85°F			95°F			105°F			115°F		
	E.D.B.	E.W.B.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.
1225	80	62	42.9	35.3	2.48	41.3	35.0	2.71	39.3	35.1	2.99	37.4	34.5	3.29	35.50	34.90	3.64	33.65	33.08	4.03
	80	67	46.7	28.7	2.50	44.7	28.5	2.74	42.6	28.8	3.01	40.3	28.2	3.31	38.05	27.84	3.65	35.72	26.54	4.04
	80	72	50.9	21.7	2.52	48.7	21.6	2.76	46.5	22.0	3.03	44.0	21.6	3.34	41.61	21.25	3.68	39.02	21.76	4.07
	75	62	42.7	29.2	2.48	40.9	28.9	2.71	38.9	29.1	2.98	36.9	28.5	3.29	34.84	26.23	3.64	32.66	28.17	4.02
1400	80	62	44.0	38.2	2.55	42.2	38.8	2.78	40.4	37.7	3.06	38.6	36.5	3.37	36.76	35.52	3.71	34.80	34.50	4.10
	80	67	47.5	30.9	2.56	45.3	31.7	2.81	43.3	30.9	3.08	41.0	30.6	3.38	38.67	30.58	3.72	36.20	30.53	4.11
	80	72	51.8	23.1	2.59	49.6	24.1	2.82	47.2	23.4	3.10	44.7	23.2	3.41	42.14	23.29	3.75	39.43	23.42	4.13
	75	62	43.5	31.3	2.54	41.7	32.0	2.78	39.6	31.2	3.06	37.6	30.8	3.36	35.41	30.65	3.70	33.17	30.51	4.09
1575	80	62	45.1	41.0	2.62	43.4	40.5	2.85	41.6	38.8	3.14	39.8	37.8	3.44	37.80	36.52	3.78	35.72	35.57	4.17
	80	67	48.2	33.5	2.63	46.0	33.8	2.88	43.8	33.0	3.14	41.5	32.8	3.45	39.11	32.59	3.79	36.62	32.69	4.18
	80	72	52.5	24.9	2.66	50.2	25.4	2.89	47.7	24.7	3.17	45.1	24.7	3.48	42.50	24.59	3.82	39.73	24.89	4.20
	75	62	44.2	33.8	2.61	42.3	34.1	2.85	40.2	33.2	3.12	38.1	33.0	3.43	35.86	32.63	3.77	33.65	32.60	4.16

FS4BE-048KA B6BM-X48K-C

CFM	O.D.T		65°F			75°F			85°F			95°F			105°F			115°F		
	E.D.B.	E.W.B.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.
1400	80	62	47.6	38.2	2.72	45.7	37.9	3.01	43.8	38.1	3.31	41.8	37.4	3.67	39.76	39.03	4.06	37.62	36.93	4.49
	80	67	51.6	31.0	2.76	49.6	30.8	3.03	47.4	31.1	3.34	45.2	30.5	3.69	42.81	30.06	4.08	40.38	28.39	4.52
	80	72	57.0	23.9	2.79	54.8	23.8	3.06	52.3	24.3	3.37	49.8	23.8	3.72	47.11	23.53	4.11	44.31	24.17	4.55
	75	62	47.1	31.4	2.72	45.2	31.1	3.00	43.2	31.3	3.31	41.2	31.0	3.66	39.07	28.73	4.06	36.82	30.75	4.49
1600	80	62	48.8	41.2	2.80	46.9	41.8	3.08	45.0	40.9	3.39	42.9	40.4	3.74	41.09	39.70	4.14	39.06	38.73	4.58
	80	67	52.8	33.1	2.83	50.7	34.0	3.10	48.5	33.2	3.41	46.0	32.8	3.76	43.61	33.20	4.15	41.09	33.21	4.59
	80	72	58.2	25.3	2.86	55.7	26.5	3.13	53.1	25.7	3.44	50.4	25.5	3.79	47.43	25.68	4.18	44.63	25.81	4.61
	75	62	48.1	33.9	2.79	46.2	34.6	3.07	44.2	33.8	3.38	42.0	33.4	3.73	39.78	33.25	4.13	37.50	33.14	4.56
1800	80	62	49.9	44.4	2.87	48.0	44.5	3.15	46.3	43.1	3.46	44.4	42.1	3.82	42.32	40.89	4.21	40.18	40.01	4.65
	80	67	53.7	35.7	2.90	51.5	36.1	3.17	49.2	35.6	3.48	46.7	35.5	3.83	44.23	35.24	4.22	41.64	35.41	4.66
	80	72	58.9	27.2	2.93	56.1	27.8	3.20	53.4	27.0	3.51	50.8	27.0	3.86	48.03	26.85	4.25	45.17	27.16	4.68
	75	62	49.0	36.5	2.86	47.0	36.7	3.14	44.9	35.8	3.45	42.7	35.6	3.80	40.41	35.27	4.20	38.04	35.27	4.63

FS4BE-060K with B6BM-X60K-C

CFM	O.D.T		75°F			85°F			95°F			105°F			115°F		
	E.D.B.	E.W.B.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.
1600	80	62	59.6	49.6	3.92	57.1	48.7	4.32	54.2	47.8	4.77	51.0	47.3	5.27	47.6	45.5	5.84
	80	67	64.6	42.2	3.95	61.8	41.0	4.36	58.6	39.5	4.81	55.1	38.1	5.31	51.3	36.5	5.89
	80	72	70.9	33.8	3.99	67.7	32.7	4.41	64.0	31.5	4.86	60.1	30.1	5.37	55.6	28.7	5.94
	75	63	60.2	40.8	3.93	57.6	39.6	4.33	54.7	38.3	4.78	51.4	36.9	5.28	47.9	35.3	5.85
1700	80	62	60.3	51.3	3.97	57.7	50.2	4.36	54.7	49.9	4.81	51.6	48.8	5.31	48.1	47.3	5.89
	80	67	65.3	43.1	4.01	62.4	42.0	4.40	59.1	40.6	4.85	55.6	39.2	5.35	51.7	37.6	5.93
	80	72	71.3	34.5	4.06	68.1	33.5	4.46	64.4	32.2	4.90	60.3	30.9	5.41	55.6	29.4	5.98
	75	63	60.9	41.9	3.98	58.2	40.7	4.37	55.2	39.4	4.82	51.9	37.9	5.32	48.2	36.3	5.90
1800	80	62	60.8	53.8	4.03	58.3	52.3	4.41	55.3	51.3	4.85	52.0	50.6	5.35	48.5	48.5	5.93
	80	67	65.9	44.2	4.07	62.9	43.1	4.45	59.6	41.7	4.89	55.9	40.3	5.39	52.0	38.6	5.97
	80	72	71.7	35.3	4.12	68.5	34.2	4.50	64.6	33.0	4.94	60.3	31.6	5.44	55.9	30.0	6.02
	75	63	61.5	42.9	4.04	58.7	41.8	4.42	55.6	40.4	4.86	52.2	38.9	5.36	48.5	37.3	5.94



For current Energy Star Information please refer to www.energystar.gov



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GENERAL TERMS OF LIMITED WARRANTY

NORDYNE will furnish a replacement for any part of this product which fails in normal use and service within the first ten years of installation, in accordance with the terms of the warranty.

For complete details of the Limited Warranty, including applicable terms and conditions, see your local installer or contact the NORDYNE warranty department for a copy.



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