

TECHNICAL SPECIFICATIONS

ES4BE Series

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

The ES4BE Series now offers the choice of an air conditioner that uses a more efficient and environmentally friendly refrigerant designated R-410A. The ES4BE 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.



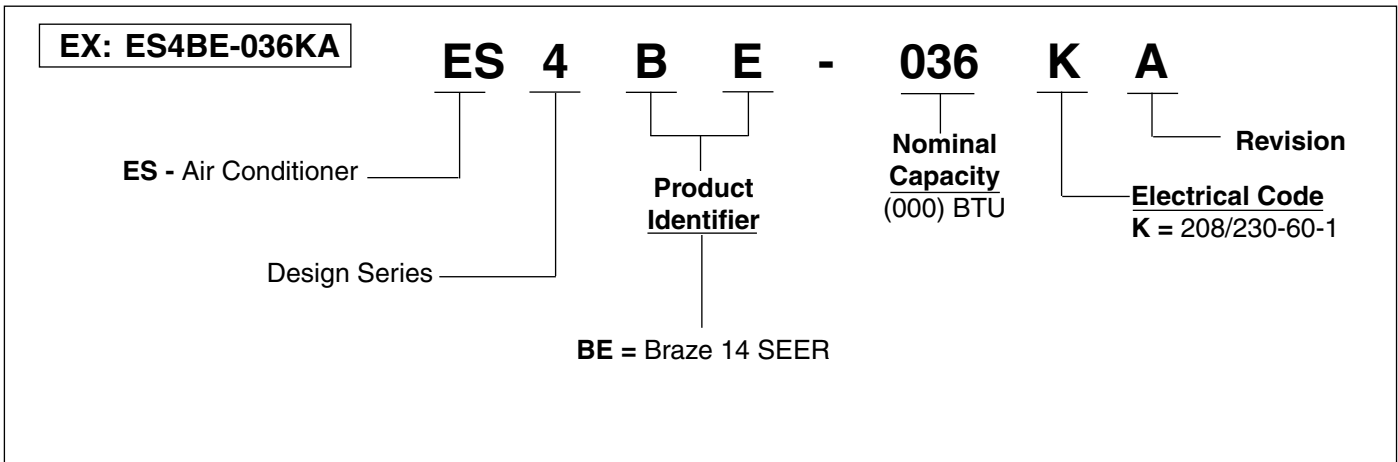
WARRANTY

- This product offers a 10-year all-parts warranty.
- This product offers a 1 year Quality Pledge to replace the entire unit, if the unit's major component (heat exchanger or compressor) fails within the first year 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 1 year 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.
- **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 all models which provides high corrosion resistance.

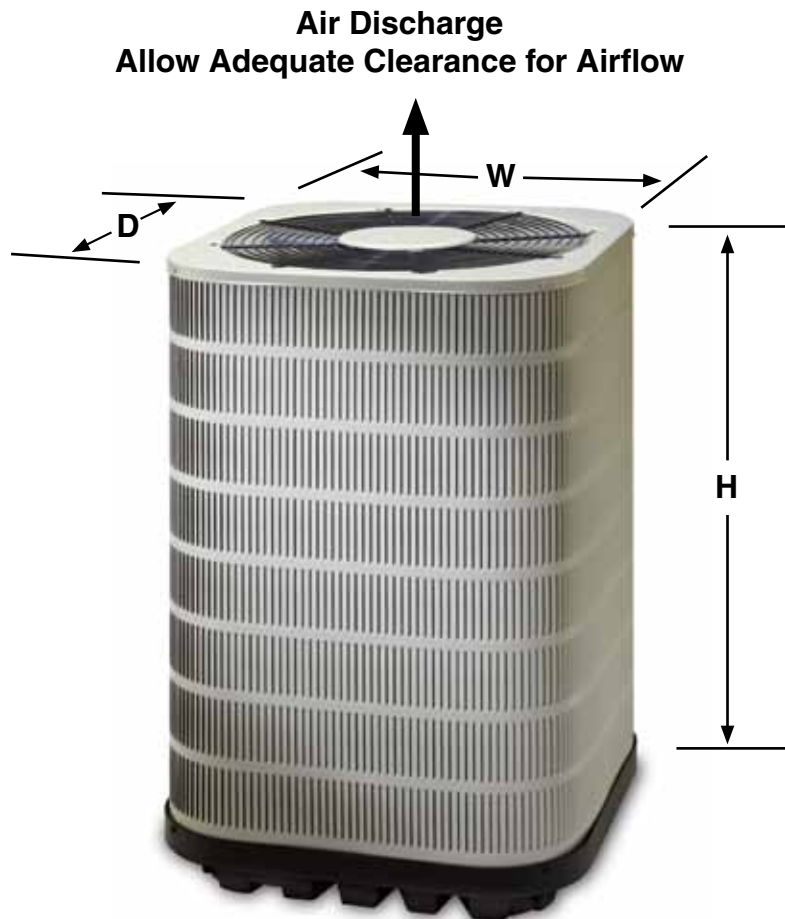
MODEL IDENTIFICATION CODES



DIMENSIONS

AIR CONDITIONER OUTDOOR SECTION

ES4BE	018KA	024KA	030KA	036KA	042KA	048KA	060KA
H	27"	31"	27"	35"	39"	39"	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 ES4BE		018KA	024KA	030KA	036KA	042KA	048KA	060KA	
Electrical Data	Volts-Cycles-Phase (1)	208/230-60-1							
	Total Amps	9.9	14.4	15.0	15.1	19.4	21.3	29.0	
	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	35.6	
Component Data	Coil	Area	10.0	11.7	15.2	20.3	22.8	22.8	25.4
		Rows-FPI	1-23	1-23	1-18	1-18	1-18	1-18	1-23
		Tube Dia	MC						
	Fan Motor	Type	PSC						BLDC
		Amps	0.9	0.9	0.9	1.0	1.5	1.5	2.6
		HP	0.13	0.13	0.13	0.20	0.25	0.25	0.33
	Compressor Data	RLA	9.0	13.4	14.1	14.1	17.9	19.8	26.4
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)	
Refrigerant charge R-410A in ounces for outdoor unit & 15' lineset		39.0	45.0	51.0	62.0	75.0	101.0	81.0	
Approximate Weight (lbs.)	Net	107	127	132	146	175	177	187	
	Ship	113	134	140	155	184	186	196	

(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.

Notes:

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
ES4BE-018KA	C7B(A,H)M01824(C,U)-A+TXV	18,000	14	12.2	680
ES4BE-018KA	C7B(A,H)M01824(C,U)-B+TXV	18,000	14	12.2	680
ES4BE-024KA	C7B(A,H)M01824(C,U)-A+TXV	24,000	14	12.2	845
ES4BE-024KA	C7B(A,H)M01824(C,U)-B+TXV	24,000	14	12.2	845
ES4BE-030KA	C7B(A,H)M03036(C,U)-A+TXV	29,000	14	12.0	945
ES4BE-030KA	C7B(A,H)M03036(C,U)-B+TXV	29,000	14	12.0	945
ES4BE-036KA	C7B(A,H)M03642(C,U)-B+TXV	34,800	14	12.2	1110
ES4BE-036KA	C7B(A,H)M03648(C,U)-C+TXV	34,800	14	12.2	1110
ES4BE-042KA	C7B(A,H)M03642(C,U)-B+TXV	40,500	14	12.2	1305
ES4BE-042KA	C7B(A,H)M03648(C,U)-C+TXV	40,500	14	12.2	1305
ES4BE-048KA	C7B(A,H)M048(C,U)-C+TXV	45,500	14	11.7	1525
ES4BE-048KA	C7B(A,H)M048(C,U)-D+TXV	45,500	14	11.7	1525
ES4BE-060KA	C7B(A,H)M060(C,U)-C+TXV	57,000	14	11.7	1540
ES4BE-060KA	C7B(A,H)M060(C,U)-D+TXV	57,000	14	11.7	1540

Outdoor Unit	Indoor Unit	BTUH	SEER	EER	CFM
ES4BE-018KA	B6BM-X24K-A	18,000	14	12.2	600
ES4BE-018KA	B6BM-X24K-B	18,000	14	12.2	600
ES4BE-024KA	B6BM-X24K-A	24,000	14	12.2	705
ES4BE-024KA	B6BM-X24K-B	24,000	14	12.2	705
ES4BE-030KA	B6BM-X30K-A	30,200	14	12.2	875
ES4BE-030KA	B6BM-X30K-B	30,200	14	12.2	875
ES4BE-036KA	B6BM-X36K-B	34,000	14	12.2	905
ES4BE-042KA	B6BM-X42K-B	40,000	14	12.2	1225
ES4BE-048KA	B6BM-X48K-C	45,500	14	11.7	1450
ES4BE-060KA	B6BM-X60K-C	58,000	14	11.7	1660

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)

ES4BE-042KA C7B(A,H)M03642(C,U)-B+TXV Kit

O.D.T		65°F			75°F			85°F			95°F			105°F			115°F			
CFM	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

ES4BE-048KA C7B(A,H)M048(C,U)-C+TXV Kit

O.D.T		65°F			75°F			85°F			95°F			105°F			115°F			
CFM	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

ES4BE-060KA C7B(A,H)M060(C,U)-C+TXV Kit

O.D.T		65°F			75°F			85°F			95°F			105°F			115°F			
CFM	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.
1750	80	62	60.6	46.3	3.54	58.4	45.6	3.90	56.1	45.9	4.31	53.7	45.2	4.76	51.10	47.35	5.29	48.37	44.82	5.89
	80	67	66.0	38.3	3.59	63.6	38.0	3.96	61.0	38.5	4.36	58.4	37.8	4.82	55.56	37.26	5.35	52.57	34.81	5.95
	80	72	72.5	29.9	3.65	69.8	29.8	4.03	66.9	30.4	4.43	63.8	29.9	4.89	60.47	29.54	5.41	56.92	30.37	6.01
	75	62	60.3	38.8	3.54	58.1	38.5	3.90	55.8	38.8	4.30	53.3	38.0	4.76	50.80	35.41	5.29	48.02	37.85	5.89
2000	80	62	62.0	49.1	3.65	59.7	50.0	4.01	57.3	48.9	4.41	54.8	48.4	4.87	52.13	48.19	5.40	49.29	47.81	6.00
	80	67	67.4	40.5	3.70	65.0	41.8	4.07	62.2	40.7	4.47	59.4	40.4	4.93	56.51	40.44	5.45	53.42	40.51	6.05
	80	72	73.7	31.4	3.75	70.6	32.9	4.13	67.4	31.9	4.54	64.4	31.7	4.99	61.21	31.94	5.51	57.88	32.19	6.12
	75	62	61.6	41.1	3.64	59.4	42.1	4.01	56.9	41.1	4.41	54.4	40.6	4.87	51.65	40.57	5.40	48.82	40.49	5.99
2250	80	62	63.1	52.6	3.75	60.8	52.9	4.12	58.2	51.6	4.52	55.7	51.2	4.98	52.99	50.41	5.51	50.14	49.93	6.10
	80	67	68.6	43.4	3.81	65.9	43.9	4.17	63.2	42.9	4.58	60.3	42.8	5.03	57.25	42.58	5.55	54.05	42.86	6.16
	80	72	74.4	33.5	3.86	71.4	34.2	4.24	68.4	33.2	4.65	65.3	33.3	5.10	61.96	33.19	5.62	58.52	33.68	6.23
	75	62	62.7	43.9	3.75	60.3	44.3	4.11	57.8	43.2	4.51	55.2	43.1	4.97	52.39	42.71	5.50	49.39	42.45	6.09

14 SEER AHU COOLING EXPANDED RATINGS (CONTINUED)

ES4BE-042KA B6BM-X42K-B

O.D.T			65°F			75°F			85°F			95°F			105°F			115°F		
CFM	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

ES4BE-048KA B6BM-X48K-C

O.D.T			65°F			75°F			85°F			95°F			105°F			115°F		
CFM	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

ES4BE-060KA B6BM-X60K-C

O.D.T			65°F			75°F			85°F			95°F			105°F			115°F		
CFM	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.
1500	80	62	60.0	46.4	3.45	57.7	46.0	3.83	55.3	46.3	4.26	52.8	45.5	4.75	50.18	47.93	5.30	47.44	45.31	5.94
	80	67	65.2	37.9	3.50	62.6	37.6	3.89	60.1	38.2	4.32	57.3	37.6	4.80	54.33	37.09	5.36	51.31	34.87	5.98
	80	72	71.1	29.3	3.57	68.2	29.1	3.96	65.4	29.7	4.39	62.3	29.1	4.87	59.25	28.78	5.42	55.95	29.60	6.06
	75	62	59.8	38.7	3.45	57.5	38.4	3.83	55.0	38.7	4.26	52.4	38.0	4.74	49.76	35.34	5.30	46.96	37.86	5.93
1650	80	62	61.1	49.0	3.51	58.8	50.0	3.89	56.3	48.9	4.31	53.7	48.4	4.80	51.08	48.33	5.36	48.46	48.00	5.99
	80	67	66.3	40.0	3.56	63.6	41.2	3.95	60.9	40.2	4.37	58.0	39.8	4.85	55.04	39.97	5.41	51.86	40.08	6.03
	80	72	72.3	30.4	3.63	69.3	31.9	4.01	66.3	30.9	4.44	63.2	30.7	4.92	59.95	30.98	5.47	56.52	31.28	6.11
	75	62	60.8	40.7	3.50	58.4	41.7	3.88	55.8	40.7	4.31	53.2	40.2	4.80	50.51	40.21	5.35	47.62	40.15	5.98
1800	80	62	62.2	52.2	3.56	59.7	52.5	3.94	57.2	51.4	4.37	54.6	51.1	4.85	52.13	50.36	5.41	49.60	49.39	6.05
	80	67	67.2	42.6	3.61	64.4	43.1	3.99	61.6	42.1	4.42	58.6	42.0	4.90	55.56	41.84	5.46	52.37	42.14	6.09
	80	72	73.2	32.3	3.67	70.2	33.0	4.07	67.1	32.1	4.50	63.8	32.2	4.98	60.50	32.16	5.52	57.02	32.71	6.16
	75	62	61.6	43.2	3.55	59.2	43.6	3.94	56.6	42.5	4.36	53.9	42.4	4.85	51.12	42.06	5.40	48.17	42.19	6.03



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



GENERAL TERMS OF LIMITED WARRANTY

NORDYNE will furnish a replacement for any part of this product 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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