

TECHNICAL SPECIFICATIONS

ES4BD-KA/B Series

R-410A High Efficiency Air Conditioner 13 SEER Residential System 1-1/2 – 5 Ton Capacity

The ES4BD-KA/B Series now offers the choice of an air conditioner that uses a more efficient and environmentally friendly refrigerant designated R-410A. The ES4BD-KA/B 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.



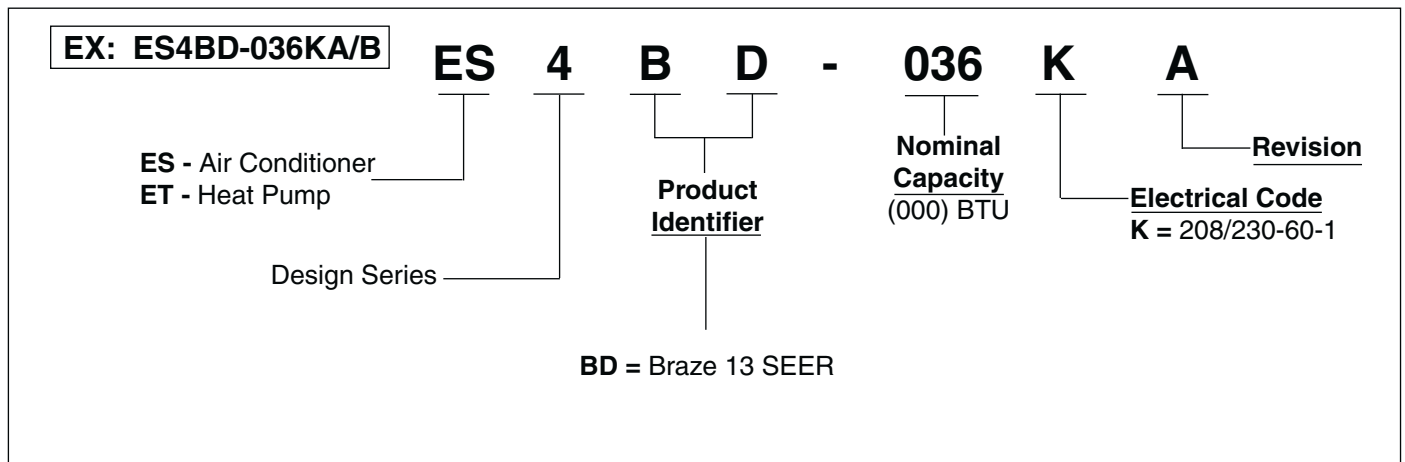
WARRANTY

- 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.
- **Composite Base Pan:** Absorbs sound and is corrosion resistant. Composite is also stronger and lighter than steel.
- **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.
- **Micro-Channel Coils:** All aluminum coils in select models which provides high corrosion resistance.

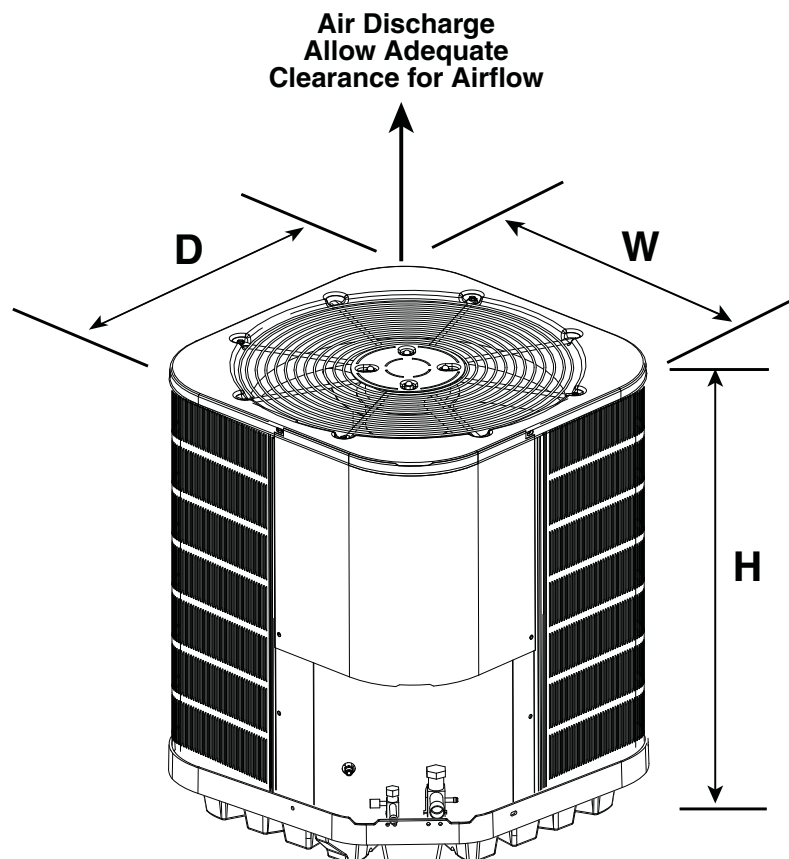
MODEL IDENTIFICATION CODES



DIMENSIONS

AIR CONDITIONER OUTDOOR SECTION

ES4BD	018KA	024KB	030KB	036KB	042KB	048KB	060KB
H	23	23	27	27	27	27	31
W	22 3/4	22 3/4	22 3/4	22 3/4	30 3/4	30 3/4	30 3/4
D	22 3/4	22 3/4	22 3/4	22 3/4	30 3/4	30 3/4	30 3/4



PHYSICAL AND ELECTRICAL SPECIFICATIONS / OUTDOOR UNITS

13 SEER — High Efficiency — Single Phase

Model Number FS4BD-			018KA	024KB	030KB	036KB	042KB	048KB	060KB
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		9.4	13.5	14.8	17.8	19.31	23.2	27.6
	Delay Fuse Max. (2)		20	25	30	35	40	45	50
	Min. Circuit Ampacity		11.5	16.7	18.3	22	23	28.6	34.2
Condenser Data	Coil	Area	8.2	11.5	13.2	13.2	15.3	15.3	17.9
		Rows-FPI	1 - 22	N/A	N/A	N/A	N/A	N/A	N/A
		Tube Dia	3/8" O.D.	Micro-Channel	Micro-Channel	Micro-Channel	Micro-Channel	Micro-Channel	Micro-Channel
	Fan Motor	Type	PSC	PSC	PSC	PSC	PSC	PSC	PSC
		Amps	0.4	0.67	0.67	1.2	1.4	1.4	1.4
		HP	0.13	0.13	0.13	0.25	0.25	0.25	0.25
	Fan Blade	Dia-# Blades	18" - 3	18" - 3	18" - 3	18" - 3	24" - 2	24" - 2	24" - 2
		SCFM	2600	2800	3000	3000	3500	3500	3800
	Compressor Data	RLA	9	12.8	14.1	16.6	17.9	21.8	26.2
		LRA	48	58.3	73	79	112	117	134
Refrigerant suction line		0-24 ft.	3/4"	3/4"	3/4"	3/4"	7/8"	7/8"	7/8"
O.D.(all length of liquid line are 3/8" O.D.)		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, indoor unit and 15' lineset. (5)									
			75	70	76	72	93	96	105
Weight	Net		109	125	138	140	179	179	188
Approximate (lbs.)	Ship		114	130	144	146	187	187	197

(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.

COPPER WIRE SIZE — AWG (1% Voltage Drop)				
Supply Wire Length-Feet				Supply Circuit Ampacity
200	150	100	50	
6	8	10	14	15
4	6	8	12	20
4	6	8	10	25
4	4	6	10	30
3	4	6	8	35
3	4	6	8	40
2	3	4	6	45
2	3	4	6	50

Wire Size based on N.E.C. for 60° type copper conductors.

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.

Extreme Wind Condition Mounting Kit - 920900

SYSTEM COOLING CAPACITIES

13 SEER — High Efficiency — Single Phase

Outdoor Unit Model Number ES4BD-	Indoor Unit + TDR	BTUH	SEER	EER	SCFM
018KA	C6B(A,H)-X24(C,U)-(A,B)	18000	13	12	530
024KA/B	C6B(A,H)-X24(C,U)-(A,B)	24000	13	11.5	700
030KA/B	C6B(A,H)-X30(C,U)-(A,B)	28600	13	11	950
030KA/B	C6B(A,H)-X30(C,U)-C	28600	13	11.5	1000
036KA/B	C6B(A,H)-X35(C,U)-(A,B)	34600	13	11.5	950
036KA/B	C6B(A,H)-X36(C,U)-(B,C)	35600	13	11.3	1100
042KA/B	C6B(A,H)-X42(C,U)-(B,C)	40500	13	11.8	1250
048KA/B	C6B(A,H)-X47(C,U)-(B,C)	46500	13	11.2	1400
048KA/B	C6B(A,H)-X48(C,U)-(C,D)	46500	13	11.2	1400
060KA/B	C6B(A,H)-X60(C,U)-(C,D)	58500	13	11	1600

SYSTEM COOLING CAPACITIES (Continued)

13 SEER — High Efficiency — Single Phase

Outdoor Unit Model Number ES4BD-	Indoor Unit	BTUH	SEER	EER	SCFM
018KA	GB5BM-024K-(A,B) + TXV Kit - 2.0	18000	13	11.5	675
024KA/B	GB5BM-024K-(A,B) + TXV Kit - 2.0	24000	13	11.5	700
030KA/B	GB5BM-030K-(A,B) + TXV Kit - 2.5	29400	13	11.5	950
036KA/B	GB5BM-036K-B + TXV Kit - 3.0	34600	13	11.5	950
042KA/B	GB5BM-042K-B + TXV Kit - 3.5	40500	13	11.7	1250
048KA/B	GB5BM-048K-C + TXV Kit - 4.0	48000	13	11.5	1400
060KA/B	GB5BM-060K-C + TXV Kit - 5.0	58000	13	11.5	1600

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

Outdoor Unit Model Number ES4BD-	Indoor Unit	BTUH	SEER	EER	SCFM
018KA	B5B(M,V)-X24K-(A,B)	18000	13	11.5	675
024KA/B	B5B(M,V)-X24K-(A,B)	24000	13	11.5	700
030KA/B	B5B(M,V)-X30K-(A,B)	29400	13	11.5	950
036KA/B	B5B(M,V)-X36K-(A,B)	34600	13	11.5	950
042KA/B	B5B(M,V)-X42K-B	40500	13	11.7	1250
048KA/B	B5B(M,V)-X48K-(B,C)	48000	13	11.5	1400
060KA/B	B5B(M,V)-X60K-C	58000	13	11.5	1600

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

14 SEER — High Efficiency — Single Phase

Outdoor Unit Model Number ES4BD-	Indoor Unit	BTUH	SEER	EER	SCFM
018KA	B4VM-X24K-(A,B)	18400	14	12.5	550
024KA/B	B4VM-X24K-(A,B)	24400	14	12.5	700
030KA/B	B4VM-X30K-(A,B)	30000	14	12.5	950
036KA/B	B4VM-X36K-B	35200	14	12.5	950
042KA/B	B4VM-X48K-(B,C)	41000	14	12.5	1250
048KA/B	B4VM-X48K-C	48500	14	12.5	1400
060KA/B	B4VM-X60K-C	59000	14	12.5	1600

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

COOLING EXPANDED RATINGS

ES4BD-018KA with C6B(A,H)-X24(C,U)-(A,B)+TDR

ES4BD-018KA with C6B(A,H)-X24(C,U)-(A,B)+MB6B(*)-(A,B)

ES4BD-018KA with B5BMX24K-(A,B), or GB5BM-024K-(A,B) + TXV Kit

O.D.T			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.
475	80	62	18.7	15.2	1.27	17.8	14.9	1.41	16.9	14.6	1.57	15.8	14.4	1.75	14.7	13.8	1.96
	80	67	20.3	12.9	1.27	19.4	12.6	1.42	18.3	12.1	1.58	17.2	11.6	1.77	15.9	11.1	1.97
	80	72	22.4	10.5	1.28	21.3	10.2	1.43	20.1	9.7	1.60	18.8	9.3	1.78	17.2	8.8	1.98
	75	63	18.8	12.6	1.27	18.0	12.2	1.41	17.0	11.7	1.58	15.9	11.3	1.76	14.8	10.7	1.96
525	80	62	19.0	16.0	1.29	18.2	15.7	1.43	17.2	15.6	1.59	16.1	15.2	1.78	15.0	14.7	1.98
	80	67	20.7	13.5	1.29	19.7	13.1	1.44	18.6	12.7	1.60	17.4	12.2	1.79	16.1	11.6	1.99
	80	72	22.7	10.9	1.30	21.6	10.5	1.45	20.2	10.1	1.62	18.9	9.6	1.80	17.4	9.1	2.00
	75	63	19.2	13.1	1.29	18.3	12.7	1.43	17.3	12.3	1.60	16.2	11.8	1.78	15.0	11.2	1.98
575	80	62	19.2	17.1	1.32	18.5	16.7	1.45	17.5	16.3	1.62	16.4	16.1	1.80	15.2	15.2	2.00
	80	67	21.0	14.1	1.31	20.0	13.7	1.46	18.9	13.2	1.63	17.7	12.7	1.81	16.3	12.2	2.01
	80	72	22.8	11.3	1.32	21.6	10.9	1.47	20.4	10.5	1.64	19.1	10.0	1.82	17.6	9.4	2.03
	75	63	19.5	13.6	1.31	18.6	13.3	1.45	17.5	12.8	1.62	16.4	12.3	1.80	15.2	11.7	2.00

ES4BD-024KB with C6B(A,H)-X24(C,U)-(A,B)+TDR

ES4BD-024KB with C6B(A,H)-X24(C,U)-(A,B)+MB6B(*)-(A,B)

ES4BD-024KB with B5BM-X24K-(A,B), or GB5BM-024K-(A,B) + TXV Kit

O.D.T			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.
600	80	62	24.2	19.5	1.66	23.1	19.1	1.85	22.0	18.8	2.06	20.7	18.6	2.30	19.3	17.9	2.57
	80	67	26.3	16.6	1.67	25.0	16.1	1.87	23.8	15.6	2.08	22.4	15.0	2.32	20.9	14.4	2.59
	80	72	28.9	13.5	1.68	27.6	13.1	1.88	26.2	12.6	2.10	24.7	12.0	2.34	22.9	11.5	2.61
	75	63	24.4	16.2	1.67	23.3	15.7	1.86	22.2	15.2	2.07	20.9	14.5	2.31	19.5	13.9	2.58
700	80	62	24.9	21.1	1.70	23.8	20.7	1.90	22.6	20.6	2.11	21.3	20.1	2.35	19.9	19.5	2.62
	80	67	27.0	17.8	1.71	25.7	17.3	1.91	24.4	16.7	2.12	23.0	16.1	2.36	21.4	15.5	2.63
	80	72	29.5	14.3	1.72	28.1	13.8	1.93	26.5	13.3	2.14	24.7	12.7	2.38	23.0	12.1	2.65
	75	63	25.1	17.2	1.71	23.9	16.7	1.90	22.7	16.2	2.11	21.4	15.6	2.35	19.9	14.9	2.62
800	80	62	25.3	23.0	1.76	24.3	22.4	1.94	23.1	22.0	2.15	21.8	21.6	2.39	20.4	20.4	2.66
	80	67	27.5	18.9	1.75	26.2	18.4	1.95	24.8	17.8	2.16	23.3	17.2	2.40	21.7	16.5	2.67
	80	72	29.7	15.0	1.76	28.2	14.5	1.96	26.7	14.0	2.18	25.1	13.4	2.42	23.4	12.7	2.69
	75	63	25.7	18.3	1.75	24.4	17.8	1.94	23.1	17.2	2.15	21.7	16.6	2.39	20.2	15.9	2.66

ES4BD-030KB with C6B(A,H)-X30(C,U)-(A,B,C)+TDR

ES4BD-030KB with C6B(A,H)-X30(C,U)-(A,B,C)+MB6B(*)-(A,B,C)

ES4BD-030KB with B5BM-X30K-(A,B), or GB5BM-030K-(A,B) + TXV Kit

O.D.T			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.
850	80	62	29.8	25.6	2.02	28.5	25.1	2.26	26.9	24.6	2.50	25.3	24.3	2.79	23.5	23.2	3.11
	80	67	32.4	21.5	2.03	30.8	20.9	2.27	29.2	20.2	2.52	27.3	19.5	2.80	25.2	18.6	3.12
	80	72	35.3	17.2	2.05	33.7	16.6	2.29	31.8	16.0	2.53	29.7	15.3	2.82	27.3	14.5	3.14
	75	63	30.1	20.9	2.03	28.7	20.3	2.26	27.1	19.6	2.51	25.4	18.8	2.79	23.5	18.0	3.11
950	80	62	30.4	27.1	2.06	29.0	26.6	2.30	27.5	26.3	2.54	25.8	25.5	2.83	24.1	24.1	3.15
	80	67	32.9	22.6	2.07	31.3	22.0	2.31	29.6	21.3	2.56	27.7	20.6	2.84	25.6	19.7	3.16
	80	72	35.7	17.9	2.08	34.0	17.4	2.33	32.0	16.7	2.57	29.9	16.0	2.86	27.6	15.2	3.18
	75	63	30.6	21.9	2.07	29.2	21.3	2.30	27.6	20.6	2.55	25.7	19.8	2.83	23.8	19.0	3.15
1050	80	62	30.8	28.9	2.12	29.5	28.2	2.34	28.0	27.4	2.58	26.4	26.4	2.87	24.7	24.7	3.19
	80	67	33.3	23.8	2.12	31.7	23.1	2.35	29.9	22.4	2.60	28.0	21.6	2.88	25.8	20.8	3.20
	80	72	36.1	18.7	2.13	34.2	18.1	2.37	32.3	17.4	2.62	30.2	16.7	2.90	27.8	15.8	3.22
	75	63	31.1	23.0	2.11	29.5	22.4	2.34	27.9	21.6	2.59	26.0	20.8	2.87	24.0	19.9	3.19

ES4BD-036KB with C6B(A,H)-X36(C,U)-(B,C)+TDR

ES4BD-036KB with C6B(A,H)-X36(C,U)-(B,C)+MB6B(*)-(B,C)

ES4BD-036KB with B5BM-X36K-(A,B), or GB5BM-036K-B + TXV Kit

O.D.T			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.
1000	80	62	36.7	31.0	2.52	35.0	30.4	2.81	33.1	29.8	3.11	31.0	29.4	3.46	28.7	28.2	3.85
	80	67	39.9	26.2	2.53	38.0	25.4	2.83	35.9	24.6	3.13	33.6	23.6	3.47	31.1	22.6	3.87
	80	72	43.7	21.0	2.55	41.7	20.3	2.86	39.4	19.5	3.16	36.7	18.6	3.50	33.9	17.6	3.89
	75	63	37.1	25.4	2.53	35.4	24.6	2.81	33.4	23.8	3.11	31.2	22.8	3.46	28.9	21.8	3.85
1100	80	62	37.3	32.6	2.56	35.6	32.0	2.85	33.7	31.7	3.15	31.5	30.9	3.50	29.4	29.4	3.89
	80	67	40.5	27.3	2.57	38.6	26.6	2.87	36.4	25.7	3.17	34.0	24.8	3.52	31.4	23.7	3.91
	80	72	44.3	21.7	2.59	42.2	21.0	2.90	39.7	20.2	3.20	37.0	19.3	3.54	34.0	18.4	3.93
	75	63	37.7	26.5	2.57	35.9	25.8	2.86	33.9	24.9	3.15	31.6	23.9	3.50	29.2	22.8	3.89
1200	80	62	37.7	34.7	2.63	36.2	33.9	2.89	34.2	33.1	3.19	32.1	32.1	3.54	30.0	30.0	3.93
	80	67	41.1	28.5	2.62	39.1	27.8	2.91	36.8	26.9	3.21	34.4	25.9	3.56	31.7	24.8	3.95
	80	72	44.7	22.5	2.64	42.5	21.8	2.94	39.9	21.0	3.24	37.2	20.0	3.58	34.3	19.0	3.97
	75	63	38.2	27.6	2.61	36.4	26.8	2.90	34.3	25.9	3.20	32.0	24.9	3.54	29.5	23.9	3.93

COOLING EXPANDED RATINGS (CONTINUED)

ES4BD-042KB with C6B(A,H)-X42(C,U)-(B,C,D)+TDR
 ES4BD-042KB with C6B(A,H)-X42(C,U)-(B,C)+MB6B(*)-(B,C)
 ES4BD-042KB with B5BM-X42K-B, or GB5BM-042K-B + TXV Kit

O.D.T			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.
1150	80	62	41.2	34.9	2.78	39.3	34.2	3.10	37.2	33.5	3.44	35.0	33.1	3.82	32.6	31.8	4.25
	80	67	44.7	29.3	2.78	42.5	28.5	3.11	40.3	27.5	3.44	37.7	26.5	3.83	35.1	25.4	4.27
	80	72	48.6	23.6	2.79	46.4	22.8	3.12	43.7	21.9	3.45	40.6	20.9	3.84	37.8	19.9	4.27
	75	63	41.6	28.5	2.79	39.6	27.7	3.10	37.5	26.7	3.44	35.2	25.7	3.83	32.7	24.6	4.26
1250	80	62	41.8	36.4	2.82	39.9	35.7	3.14	37.8	35.4	3.47	35.5	34.5	3.86	33.1	33.1	4.30
	80	67	45.2	30.4	2.82	43.1	29.6	3.15	40.7	28.6	3.48	38.1	27.5	3.87	35.4	26.4	4.31
	80	72	48.9	24.3	2.83	46.5	23.5	3.16	43.8	22.6	3.49	41.0	21.6	3.88	38.1	20.5	4.31
	75	63	42.1	29.6	2.82	40.2	28.7	3.14	37.9	27.7	3.48	35.5	26.7	3.86	33.0	25.5	4.30
1350	80	62	42.1	38.5	2.88	40.4	37.5	3.17	38.3	36.7	3.51	36.0	35.9	3.90	33.7	33.7	4.34
	80	67	45.7	31.5	2.86	43.5	30.7	3.18	41.1	29.7	3.52	38.4	28.6	3.91	35.7	27.5	4.34
	80	72	49.3	25.0	2.87	46.8	24.2	3.20	44.2	23.3	3.53	41.3	22.2	3.92	38.3	21.1	4.35
	75	63	42.6	30.6	2.87	40.6	29.7	3.18	38.3	28.7	3.52	35.8	27.6	3.90	33.2	26.5	4.34

ES4BD-048KB with C6B(A,H)-X48(C,U)-C+TDR
 ES4BD-048KB with C6B(A,H)-X48(C,U)-C+MB6B(*)-C
 ES4BD-048KB with B5BM-X48K-C, or GB5BM-048K-C + TXV Kit

O.D.T			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.
1300	80	62	48.6	40.7	3.30	46.3	39.9	3.68	43.8	39.2	4.09	41.0	38.7	4.57	38.1	37.2	5.11
	80	67	52.7	34.3	3.31	50.2	33.3	3.70	47.5	32.2	4.10	44.4	31.0	4.58	41.1	29.7	5.12
	80	72	57.5	27.4	3.32	54.8	26.5	3.71	51.8	25.5	4.12	48.4	24.3	4.59	44.7	23.1	5.13
	75	63	49.1	33.4	3.31	46.8	32.4	3.68	44.3	31.3	4.09	41.4	30.1	4.57	38.3	28.8	5.12
1400	80	62	49.2	42.4	3.34	46.9	41.6	3.72	44.3	41.2	4.13	41.5	40.2	4.61	38.6	38.6	5.15
	80	67	53.3	35.5	3.34	50.8	34.5	3.73	48.0	33.4	4.14	44.8	32.1	4.62	41.5	30.8	5.16
	80	72	58.1	28.2	3.36	55.3	27.3	3.75	52.2	26.2	4.16	48.7	25.1	4.63	45.0	23.9	5.17
	75	63	49.7	34.5	3.35	47.4	33.6	3.72	44.7	32.4	4.13	41.8	31.2	4.61	38.7	29.8	5.16
1500	80	62	49.4	44.7	3.41	47.5	43.6	3.75	44.9	42.7	4.16	42.1	41.9	4.65	39.3	39.3	5.19
	80	67	53.9	36.6	3.40	51.3	35.7	3.77	48.4	34.5	4.18	45.2	33.3	4.65	41.8	32.0	5.20
	80	72	58.7	29.0	3.40	55.7	28.1	3.79	52.5	27.0	4.19	49.0	25.8	4.67	45.2	24.6	5.20
	75	63	50.3	35.6	3.39	47.8	34.7	3.76	45.1	33.5	4.17	42.2	32.2	4.65	38.9	30.9	5.19

ES4BD-060KB with C6B(A,H)-X60(C,U)-C+TDR
 ES4BD-060KB with C6B(A,H)-X60(C,U)-C+MB6B(*)-C
 ES4BD-060KB with B5BM-X60K-C, or GB5BM-060K-C + TXV Kit

O.D.T			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.
1500	80	62	58.9	47.3	4.03	56.2	46.4	4.48	53.3	45.5	4.97	50.2	44.9	5.52	46.5	42.8	6.17
	80	67	63.6	40.3	4.05	60.6	39.1	4.52	57.5	37.7	5.02	54.1	36.1	5.58	49.9	34.3	6.23
	80	72	69.7	33.0	4.09	66.4	31.9	4.58	62.6	30.6	5.08	58.2	29.2	5.63	53.2	27.4	6.29
	75	63	59.2	39.3	4.03	56.5	38.2	4.49	53.6	36.8	4.98	50.5	35.1	5.53	46.5	33.3	6.18
1600	80	62	59.6	48.8	4.07	56.9	47.9	4.53	53.9	47.5	5.02	50.8	46.3	5.57	46.9	44.7	6.22
	80	67	64.3	41.4	4.09	61.3	40.2	4.57	58.1	38.6	5.06	54.6	37.1	5.62	50.3	35.2	6.28
	80	72	69.9	33.7	4.14	66.6	32.6	4.62	62.3	31.3	5.11	58.3	29.8	5.67	53.5	27.9	6.34
	75	63	60.0	40.2	4.08	57.2	39.0	4.54	54.2	37.6	5.02	50.9	36.1	5.57	46.9	34.2	6.23
1700	80	62	59.8	51.2	4.15	57.5	49.9	4.57	54.5	48.9	5.06	51.3	48.2	5.61	47.4	45.9	6.27
	80	67	65.1	42.2	4.15	61.9	41.1	4.61	58.6	39.7	5.11	55.0	38.1	5.66	50.6	36.2	6.32
	80	72	69.8	34.3	4.18	66.3	33.2	4.66	62.6	31.8	5.15	58.7	30.4	5.71	53.9	28.5	6.39
	75	63	60.7	41.2	4.13	57.7	40.0	4.58	54.6	38.6	5.07	51.3	37.0	5.62	47.2	35.1	6.27

COOLING EXPANDED RATINGS + VSB

ES4BD-018KA with C6B(A,H)-X24(C,U)-(A,B)+VSB
ES4BD-018KA with B4VM-X24K-(A,B)

O.D.T			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.
500	80	62	19.1	15.6	1.17	18.2	15.3	1.30	17.2	15.0	1.46	16.2	14.8	1.64	15.1	14.2	1.85
	80	67	20.7	13.3	1.17	19.8	12.9	1.31	18.7	12.5	1.47	17.6	12.0	1.65	16.3	11.5	1.86
	80	72	22.8	10.9	1.18	21.7	10.5	1.32	20.5	10.1	1.49	19.2	9.7	1.67	17.6	9.2	1.87
	75	63	19.4	12.9	1.17	18.4	12.6	1.30	17.4	12.1	1.46	16.3	11.6	1.65	15.2	11.1	1.85
550	80	62	19.4	16.4	1.19	18.5	16.1	1.32	17.6	16.0	1.48	16.5	15.6	1.67	15.3	15.1	1.87
	80	67	21.1	13.9	1.19	20.1	13.5	1.33	19.0	13.1	1.49	17.8	12.6	1.68	16.5	12.0	1.88
	80	72	23.1	11.3	1.20	22.0	10.9	1.34	20.6	10.5	1.51	19.4	10.0	1.69	17.8	9.5	1.89
	75	63	19.6	13.5	1.19	18.7	13.1	1.32	17.7	12.7	1.49	16.6	12.2	1.67	15.4	11.6	1.87
600	80	62	19.6	17.5	1.22	18.9	17.1	1.34	17.8	16.7	1.50	16.8	16.5	1.68	15.6	15.6	1.89
	80	67	21.4	14.5	1.21	20.4	14.1	1.35	19.3	13.6	1.51	18.0	13.1	1.70	16.7	12.6	1.90
	80	72	23.2	11.7	1.22	22.0	11.3	1.36	20.8	10.8	1.53	19.4	10.3	1.71	18.0	9.8	1.91
	75	63	19.9	14.0	1.21	19.0	13.6	1.34	17.9	13.2	1.51	16.8	12.7	1.69	15.5	12.1	1.89

ES4BD-024KB with C6B(A,H)-X24C(U)-(A,B)+VSB
ES4BD-024KB with B4VM-X24K-(A,B)

O.D.T			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.
600	80	62	36.7	20.0	1.54	23.6	19.6	1.71	22.4	19.4	1.94	21.2	19.0	2.16	19.8	18.3	2.43
	80	67	26.8	17.1	1.54	25.5	16.6	1.73	26.3	16.1	1.94	22.9	15.5	2.18	21.4	14.9	2.45
	80	72	29.4	14.0	1.56	28.1	13.5	1.74	26.7	13.1	1.96	25.1	12.5	2.20	23.4	11.9	2.47
	75	63	36.9	16.6	1.54	23.8	16.2	1.72	22.6	15.6	1.93	21.4	15.0	2.17	20.0	14.4	2.44
700	80	62	25.4	21.6	1.58	26.3	21.2	1.76	23.1	21.0	1.97	21.8	20.6	2.21	20.4	20.0	2.48
	80	67	27.5	18.3	1.58	26.2	17.8	1.77	26.6	17.2	1.98	23.4	16.6	2.22	21.9	15.9	2.49
	80	72	30.0	14.8	1.60	28.6	14.3	1.79	27.0	13.8	2.00	25.2	13.2	2.24	23.5	12.6	2.51
	75	63	25.6	17.7	1.58	26.4	17.2	1.76	23.2	16.7	1.97	21.9	16.1	2.21	20.4	15.4	2.48
800	80	62	25.8	23.5	1.63	26.8	22.9	1.80	23.6	22.5	2.01	22.3	22.1	2.37	20.9	20.9	2.52
	80	67	28.0	19.4	1.63	26.7	18.9	1.81	25.3	18.3	2.02	23.8	17.7	2.26	22.2	17.0	2.53
	80	72	30.2	15.5	1.64	28.7	15.0	1.82	27.2	14.4	2.04	25.6	13.9	2.28	23.8	13.2	2.55
	75	63	26.2	18.8	1.62	26.9	18.4	1.80	23.6	17.7	2.01	22.2	17.0	2.25	20.7	16.3	2.52

ES4BD-030KB with C6B(A,H)-X30(C,U)-(A,B,C)+VSB
ES4BD-030KB with B4VM-X30K-(A,B)

O.D.T			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.
850	80	62	30.5	26.2	1.86	29.1	25.7	2.08	27.5	25.2	2.32	25.9	36.9	2.61	36.1	23.8	2.93
	80	67	33.0	22.1	1.87	31.4	21.5	2.09	29.8	20.8	2.34	27.9	20.1	2.62	25.9	19.4	2.95
	80	72	36.0	17.8	1.89	34.3	17.2	2.11	32.4	16.6	2.36	30.3	15.9	2.64	27.9	15.1	2.96
	75	63	30.7	21.5	1.87	29.3	20.9	2.08	27.8	20.2	2.33	26.0	19.4	2.61	36.1	18.6	2.93
950	80	62	31.1	27.7	1.90	29.6	27.2	2.12	28.1	26.9	2.36	26.4	26.1	2.65	36.7	36.7	2.97
	80	67	33.5	23.3	1.91	31.9	22.6	2.13	30.2	21.9	2.38	28.3	21.2	2.66	26.2	20.3	2.99
	80	72	36.3	18.6	1.93	34.6	18.0	2.15	32.6	17.3	2.40	30.5	16.6	2.68	28.2	15.8	3.00
	75	63	31.3	22.6	1.91	29.8	21.9	2.12	28.2	21.2	2.37	26.3	20.4	2.65	36.4	19.6	2.97
1050	80	62	31.4	29.5	1.96	30.2	28.8	2.16	28.6	28.0	2.40	27.0	27.0	2.69	25.3	25.3	3.02
	80	67	34.0	26.4	1.96	32.3	23.7	2.18	30.5	23.0	2.42	28.6	22.2	2.70	26.4	21.4	3.04
	80	72	36.7	19.3	1.97	34.8	18.7	2.19	32.9	18.0	2.44	30.8	17.3	2.72	28.4	16.5	3.04
	75	63	31.7	23.6	1.95	30.2	23.0	2.16	28.5	22.2	2.41	26.6	21.4	2.69	36.6	20.5	3.01

ES4BD-036KB with C6B(A,H)-X36(C,U)-(B,C)+VSB
ES4BD-036KB with B4VM-X36K-B

O.D.T			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.
1000	80	62	37.3	31.5	2.38	35.5	30.9	2.65	33.6	30.4	2.95	31.5	30.0	3.30	29.3	28.7	3.69
	80	67	40.5	26.7	2.39	38.6	26.0	2.67	36.5	25.1	2.97	34.1	26.2	3.32	31.6	23.1	3.71
	80	72	44.3	21.5	2.41	42.2	20.8	2.70	39.9	20.0	3.00	37.3	19.1	3.34	34.4	18.2	3.73
	75	63	37.7	25.9	2.39	35.9	25.2	2.66	34.0	26.3	2.96	31.8	23.4	3.31	29.4	22.3	3.69
1100	80	62	37.9	33.2	2.42	36.2	32.5	2.69	34.2	32.3	2.99	32.1	31.4	3.34	29.9	29.9	3.73
	80	67	41.1	27.9	2.43	39.1	27.1	2.72	37.0	26.3	3.01	34.6	25.3	3.36	31.9	26.3	3.75
	80	72	44.9	22.3	2.45	42.7	21.6	2.74	40.2	20.8	3.04	37.5	19.9	3.39	34.6	18.9	3.77
	75	63	38.3	27.1	2.43	36.5	26.3	2.70	34.4	25.4	3.00	32.2	26.4	3.34	29.7	23.4	3.73
1200	80	62	38.2	35.3	2.48	36.7	34.4	2.73	34.7	33.7	3.03	32.7	32.7	3.38	30.6	30.6	3.78
	80	67	41.6	29.1	2.48	39.6	28.3	2.76	37.4	27.4	3.05	34.9	26.4	3.40	32.2	25.4	3.79
	80	72	45.3	23.1	2.50	43.0	22.3	2.78	40.5	21.5	3.08	37.8	20.6	3.43	34.8	19.6	3.81
	75	63	38.8	28.1	2.47	36.9	27.4	2.74	34.8	26.5	3.04	32.5	25.5	3.38	30.0	26.4	3.77

COOLING EXPANDED RATINGS + VSB (Continued)

ES4BD-042KB with C6B(A,H)-X42(C,U)-(B,C,D)+VSB

ES4BD-042KB with B4VM-X48K-(B,C)

O.D.T			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.
1150	80	62	42.1	35.7	2.56	40.2	35.0	2.85	38.1	34.4	3.19	35.8	34.0	3.57	33.5	32.6	4.00
	80	67	45.5	30.2	2.56	43.4	29.3	2.86	41.1	28.4	3.19	38.6	27.3	3.58	35.9	26.2	4.02
	80	72	49.5	36.5	2.56	47.2	23.6	2.87	44.6	22.8	3.20	41.5	21.8	3.59	38.6	20.7	4.02
	75	63	42.5	29.4	2.56	40.5	28.5	2.85	38.4	27.6	3.19	36.0	26.5	3.58	33.5	25.4	4.01
1250	80	62	42.7	37.3	2.60	40.8	36.5	2.89	38.6	36.2	3.22	36.3	35.3	3.61	34.0	34.0	4.05
	80	67	46.1	31.3	2.59	43.9	30.4	2.90	41.4	29.5	3.23	39.0	28.4	3.62	36.3	27.3	4.06
	80	72	49.8	25.2	2.61	47.4	36.4	2.91	44.7	23.5	3.36	41.9	22.4	3.63	38.9	21.4	4.06
	75	63	43.0	30.4	2.60	41.0	29.6	2.89	38.8	28.6	3.23	36.4	27.5	3.61	33.8	26.4	4.05
1350	80	62	43.0	39.4	2.66	41.3	38.4	2.94	39.1	37.6	3.26	36.8	36.8	3.65	34.6	34.6	4.09
	80	67	46.6	32.4	2.64	44.3	31.5	2.93	41.9	30.5	3.27	39.3	29.4	3.66	36.5	28.3	4.09
	80	72	50.2	25.9	2.65	47.6	25.0	2.95	45.0	36.1	3.28	42.2	23.1	3.67	39.2	22.0	4.10
	75	63	43.5	31.5	2.64	41.4	30.6	2.93	39.1	29.6	3.27	36.7	28.5	3.65	34.1	27.3	4.09

ES4BD-048KB with C6B(A,H)-X48(C,U)-(C,D)+VSB

ES4BD-048KB with B4VM-X48K-C

O.D.T			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.
1300	80	62	49.5	41.6	3.07	47.2	40.8	3.42	44.7	40.1	3.83	41.9	39.6	4.31	39.0	38.0	4.86
	80	67	53.6	35.2	3.08	51.1	34.2	3.44	48.3	33.1	3.84	45.3	31.9	4.32	42.0	30.6	4.87
	80	72	58.4	28.3	3.09	55.7	27.4	3.46	52.6	26.3	3.86	49.3	25.2	4.33	45.6	36.0	4.87
	75	63	50.0	34.3	3.08	47.7	33.3	3.43	45.1	32.2	3.84	42.3	31.0	4.32	39.2	29.7	4.86
1400	80	62	50.1	43.3	3.11	47.8	42.4	3.46	45.2	42.1	3.87	42.4	41.1	4.35	39.5	39.5	4.89
	80	67	54.4	36.4	3.11	51.7	35.4	3.48	48.9	34.3	3.88	45.7	33.0	4.36	42.3	31.7	4.90
	80	72	59.0	29.1	3.13	56.1	28.2	3.49	53.1	27.1	3.90	49.6	26.0	4.37	45.9	36.8	4.91
	75	63	50.7	35.4	3.12	48.3	34.4	3.47	45.6	33.3	3.87	42.7	32.0	4.36	39.5	30.7	4.90
1500	80	62	50.3	45.6	3.18	48.3	44.5	3.50	45.7	43.6	3.91	43.0	42.7	4.39	40.2	40.2	4.93
	80	67	54.8	37.5	3.16	52.1	36.5	3.52	49.3	35.4	3.92	46.1	34.2	4.40	42.6	32.8	4.94
	80	72	59.6	29.9	3.17	56.6	28.9	3.53	53.4	27.9	3.94	49.9	26.7	4.41	46.1	25.5	4.95
	75	63	51.2	36.5	3.16	48.7	35.5	3.50	46.0	34.4	3.91	43.0	33.1	4.39	39.8	31.8	4.94

ES4BD-060KB with C6B(A,H)-X60(C,U)-(C,D)+VSB

ES4BD-060KB with B4VM-X60K-C

O.D.T			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.
1500	80	62	59.7	48.0	3.84	56.9	47.1	4.28	54.0	46.2	4.76	50.9	45.6	5.31	47.2	43.6	5.97
	80	67	64.3	41.0	3.86	61.3	39.8	4.32	58.2	38.5	4.81	54.8	36.8	5.37	50.6	35.0	6.03
	80	72	70.4	33.7	3.91	67.2	32.6	4.37	63.3	31.3	4.87	58.9	29.9	5.42	53.9	28.1	6.08
	75	63	59.9	40.0	3.85	57.2	38.9	4.28	54.3	37.5	4.77	51.2	35.8	5.32	47.3	34.0	5.98
1600	80	62	60.3	49.5	3.89	57.6	48.6	4.32	54.7	48.2	4.81	51.5	47.0	5.36	47.7	45.4	6.02
	80	67	65.1	42.1	3.90	62.0	41.0	4.36	58.8	39.4	4.85	55.3	37.8	5.41	51.0	35.9	6.07
	80	72	70.7	34.4	3.95	67.3	33.3	4.41	63.0	32.0	4.90	59.0	30.5	5.46	54.4	28.6	6.14
	75	63	60.8	40.9	3.89	57.9	39.7	4.33	54.9	38.3	4.82	51.6	36.8	5.37	47.6	34.9	6.02
1700	80	62	60.6	51.9	3.96	58.2	50.6	4.36	55.2	49.6	4.85	52.0	48.9	5.40	48.1	46.7	6.06
	80	67	65.8	43.0	3.96	62.6	41.8	4.40	59.3	40.4	4.90	55.7	38.8	5.45	51.3	36.9	6.11
	80	72	70.6	35.1	3.99	67.0	34.0	4.45	63.3	32.6	4.95	59.4	31.1	5.50	54.6	29.2	6.18
	75	63	61.4	41.9	3.94	58.4	40.7	4.37	55.4	39.3	4.86	52.0	37.7	5.41	48.0	35.8	6.06



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.

NORDYNE

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473D-0910 (Replaces 473D-0410)