

A Ultra Quiet Series

Electric Air Handler



PERFORMANCE:

Field-installed heat available up to 20 kW

Air handling capacities from 1½ to 5 tons

Multi-positional upflow, downflow, or horizontal flow

FEATURES:

Strong, unitized steel construction

Fully-insulated, painted cabinet

40 VA 208/230 volt transformer

Designed for ultra-quiet operation

Dual-rated 208/230 volt operation

Double pole fan relay

3-Speed, permanently-lubricated
PSC motors resilient mounted for quiet,
vibration-free operation

Filter access door allows easy filter replacement

Standard-size, disposable filter available

WARRANTY:

Limited 5 year parts warranty

A Ultra Quiet Series

MODEL SPECIFICATIONS								
AIR HANDLER MODEL	MAX kW @ VOLTAGE 230/208	CFM @ .5" WC / 60 Hz HI/MED/LOW	COOLING RANGE (TONS)	BLOWER DIRECT DRIVE	MOTOR H.P.	FILTER DIMENSIONS (IN)	SHIPPING DIMENSIONS H x W x D (IN)	WEIGHT SHIPPING/NET (LB)
A24B1	15 / 11.2	795 / 670 / N/A	1.5 - 2.0	9 x 7	1/6	16 x 20 x 1	42 ⁵ / ₈ x 20 ¹ / ₁₆ x 24 ⁷ / ₁₆	102 / 90
A30B1	20 / 15	850 / 740 / 620	2.5	9 x 10	1/3	16 x 20 x 1	45 ⁵ / ₈ x 20 ¹ / ₁₆ x 24 ⁷ / ₁₆	106 / 94
A36B1	20 / 15	850 / 740 / 620	2.5 - 3.0	9 x 10	1/3	16 x 20 x 1	42 ⁵ / ₈ x 20 ¹ / ₁₆ x 24 ⁷ / ₁₆	102 / 90
A36B2	20 / 15	850 / 740 / 620	2.5 - 3.0	9 x 10	1/3	16 x 20 x 1	45 ⁵ / ₈ x 20 ¹ / ₁₆ x 24 ⁷ / ₁₆	106 / 94
A42B1	20 / 15	1630 / 1335 / 1100	3.5 - 4.0	10 x 8	1/2	20 x 25 x 1	50 ³ / ₄ x 24 ¹ / ₄ x 27 ¹ / ₈	117 / 102
A48B1	20 / 15	1630 / 1335 / 1100	3.5 - 4.0	10 x 8	1/2	20 x 25 x 1	50 ³ / ₄ x 24 ¹ / ₄ x 27 ¹ / ₈	117 / 102
A48B2	20 / 15	1630 / 1335 / 1100	4.0	10 x 8	1/2	20 x 25 x 1	50 ³ / ₄ x 24 ¹ / ₄ x 27 ¹ / ₈	117 / 102
A60B1	20 / 15	1895 / 1770 / 1185	5.0	10 x 10	3/4	20 x 25 x 1	50 ³ / ₄ x 24 ¹ / ₄ x 27 ¹ / ₈	121 / 106

BLOWER SPEED / STATIC OPERATION								
UNIT	MOTOR SPEED	RESISTANCE HEAT STATIC PRESSURE (IN. W.C.) ACROSS HEAT ELEMENT @ MAX. CFM		60 Hz / 50 Hz OPERATION CFM @ EXTERNAL DUCT STATIC (IN. W.C.)				
		RESISTANCE HEAT ONLY	AUXILIARY HEAT STAGED WITH HEAT PUMP	.2	.3	.4	.5	.6
A24B1	HIGH	15 kW @ 0.20"	10 kW @ 0.15"	925 / 830	900 / 810	850 / 765	795 / 715	690 / 620
	MEDIUM	15 kW @ 0.20"	5 kW @ 0.15"	800 / 715	760 / 685	745 / 670	670 / 600	N/A
	LOW	10 kW @ 0.15"	N/A	655 / 590	625 / 560	600 / 540	N/A	N/A
A30B1	HIGH	20 kW @ 0.25"	10 kW @ 0.15"	1310 / 1180	1220 / 1100	1045 / 940	850 / 765	600 / 540
A36B1	MEDIUM	20 kW @ 0.20"	10 kW @ 0.15"	1225 / 1100	1045 / 940	945 / 850	740 / 665	595 / 535
A36B2	LOW	20 kW @ 0.15"	N/A	965 / 870	870 / 785	755 / 680	620 / 560	480 / 430
A42B1	HIGH	*20 kW @ 0.60"	15 kW @ 0.45"	1790 / 1610	1740 / 1565	1690 / 1520	1630 / 1465	1540 / 1385
A48B1	MEDIUM	*20 kW @ 0.50"	15 kW @ 0.40"	1435 / 1290	1420 / 1275	1380 / 1240	1335 / 1200	1290 / 1160
A48B2	LOW	*20 kW @ 0.40"	15 kW @ 0.40"	1140 / 1025	1140 / 1025	1120 / 1010	1100 / 990	1085 / 975
A60B1	HIGH	*20 kW @ 0.60"	15 kW @ 0.45"	2230 / 2005	2105 / 1895	1990 / 1790	1895 / 1705	1725 / 1550
	MEDIUM	*20 kW @ 0.50"	15 kW @ 0.40"	1950 / 1755	1930 / 1740	1840 / 1655	1770 / 1595	1590 / 1430
	LOW	*20 kW @ 0.35"	15 kW @ 0.35"	1360 / 1225	1350 / 1215	1340 / 1205	1185 / 1065	1080 / 975

*Specifications applicable to upflow and horizontal applications.

Air flow shown at the following conditions:

- ① No heat elements in Air Handler. Decrease CFM 1% for 5 kW, 7.5 kW, or 10 kW heat kits. Decrease CFM 2% for 15 kW or 20 kW heat kits.
- ② 60 Hertz — 230 volts. Decrease CFM 6% for 208 volt operation. 50 Hertz — 230 volts.
- ③ Standard Air Handler filter.
- ④ Dry coil airflow shown.

POWER SUPPLY

					SINGLE CIRCUIT SUPPLY						DUAL CIRCUIT SUPPLY											
kW 230 VAC	Phase	No. of Supply Circuits	MBTUH 208/230	Heat Load Amps	Min. Wire ①	Max. Fuse Fuse ②	Wire Size ③		Ground Size ②		Min. Wire Ampacity ①			Max. Fuse Size ②			Wire Size ③			Ground Size ③		
					Ampacity	Size	AWG	MM2	AWG	MM2	Ckt1	Ckt2	Ckt3	Ckt1	Ckt2	Ckt3	Ckt1 AWG MM2	Ckt2 AWG MM2	Ckt3 AWG MM2	Ckt1 AWG MM2	Ckt2 AWG MM2	Ckt3 AWG MM2
0	1	1	-	-	5.0	15	14	2.1	14	2.1	-	-	-	-	-	-	-	-	-	-	-	-
5*	1	1	12.6 / 17.1	20.9	30	30	10	5.3	10	5.3	-	-	-	-	-	-	-	-	-	-	-	-
10*	1	1	25.6 / 34.1	41.7	57	60	6	13.3	10	5.3	-	-	-	-	-	-	-	-	-	-	-	-
15*	1	1 or 2	38.4 / 51.2	62.5	83	90	4	21.2	8	8.4	57	26	-	60	30	-	6	13.3	10	5.3	-	-
20*	1	1 or 2	51.2 / 68.2	83.4	109	110	2	33.6	6	13.3	57	53	-	60	60	-	6	13.3	6	13.3	-	-

*Models are not CE approved. kW does not include motor watts.

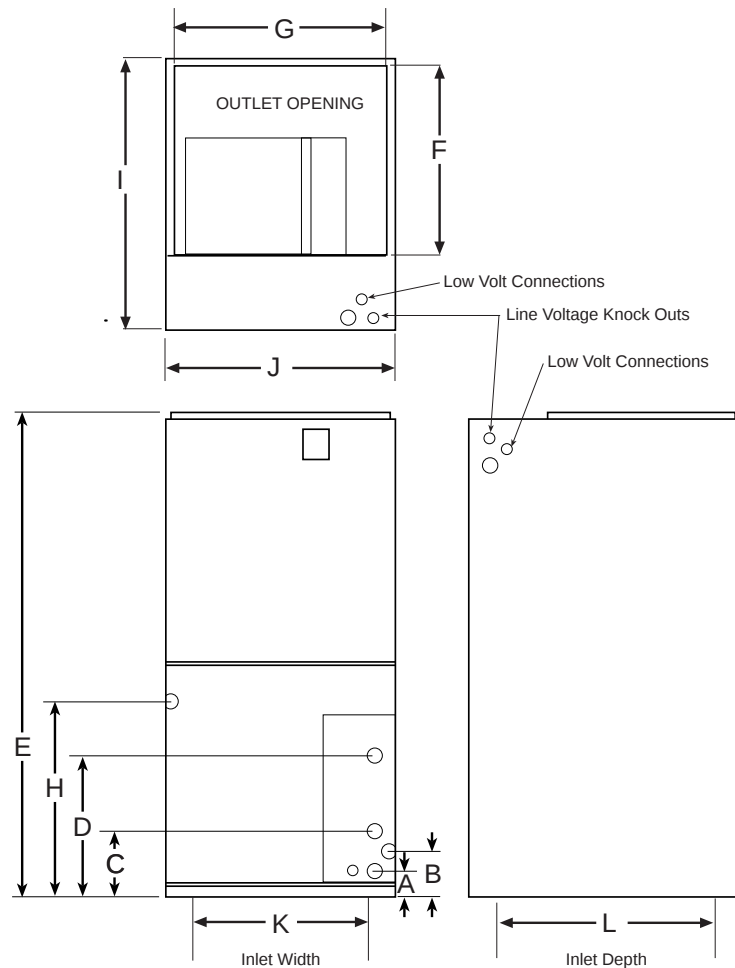
① Ampacities and over current protection based on largest air handler motor load. Refer to specific name plate for exact ampacity and overcurrent protection size.

Minimum wire ampacity values are used for sizing field power conductors. Refer to the National Electrical Code (latest version), Article 310, for sizing conductors.

NOTE: when more than three current-carrying conductors are in the same conduit, the conductor's ampacity must be derated. See Note 8 of Table 310 for ampacity adjustment factors.

② Maximum size fuse or HACR-type circuit breaker for field wiring protection.

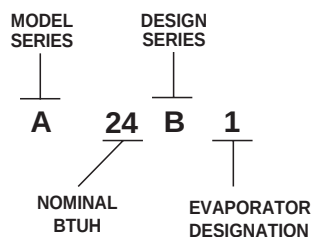
③ Wire size based on 75°C copper wire with no more than three current-carrying conductors in the same conduit. All wiring must conform to the National Electrical Code and all local codes.



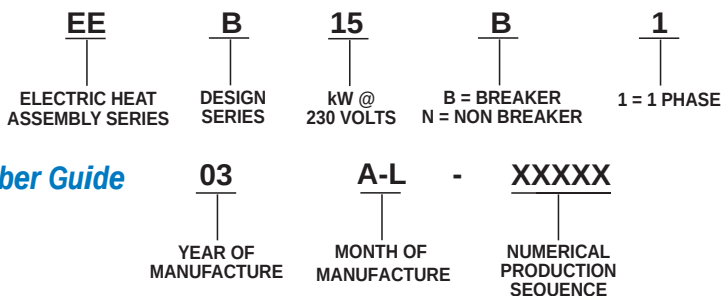
DIMENSIONS (INCHES)

MODEL	A IN (CM)	B IN (CM)	C IN (CM)	D IN (CM)	E IN (CM)	F IN (CM)	G IN (CM)	H IN (CM)	I IN (CM)	J IN (CM)	K IN (CM)	L IN (CM)
A24B1, A36B1	2¼ (5.7)	3⅝ (9.2)	9⅝ (24.4)	15¼ (38.7)	40⅜ (102.5)	15 (38.1)	17 (43.2)	15½ (39.4)	22 (55.9)	18 (45.7)	14 (35.6)	16¼ (41.3)
A30B1, A36B2	2¼ (5.7)	3⅝ (9.2)	9⅝ (24.4)	15¼ (38.7)	43⅜ (110.1)	15 (38.1)	17 (43.2)	15½ (39.4)	22 (55.9)	18 (45.7)	14 (35.6)	16¼ (41.3)
A42B1, A48B1, A48B2, A60B1	2¼ (5.7)	6¼ (15.9)	9⅝ (24.4)	15 (38.1)	48¼ (122.2)	19⅝ (48.6)	21 (53.4)	25⅝ (65)	26 (66)	22 (55.9)	16⅝ (41.6)	22¼ (56.5)

MODEL KEY: Air Handler



MODEL KEY: Electric Heat Assembly



Serial Number Guide

230 VOLT SINGLE PHASE ELECTRIC HEAT KITS

KW	STAGES	APPROVED FOR MODELS	HEAT KIT MODEL W/ BREAKER	HEAT KIT MODEL W/O BREAKER
5	1	A24 - A60	N/A	EEB05N1
7.5	1	A24 - A60	N/A	EEB07N1
10	1	A24 - A60	N/A	EEB10N1
15	2	A30 - A60	EEB15B1	N/A
20	2	A36 - A60	EEB20B1	N/A



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