

# AEW SERIES

## HIGH-EFFICIENCY WALL MOUNT ELECTRIC HEAT

### FEATURES, BENEFITS, DIMENSIONS, & SPECIFICATIONS



Unit shown with service panels removed. Representative drawing only. Some models may vary in appearance. Due to continuous product improvement, specifications are subject to change without notice.

#### APPLICATION VERSATILITY

Front or bottom return air position. Offset hanging brackets attach to unit and wall to allow hanging inside closet. Can be AHRI matched with most brands of air conditioners or heat pumps.

- ETL listed for use with R-22, R-410A, R-454B, and R-32 when a proper metering device is used.
- In accordance to UL 60335 Refrigerant Detection Systems are factory-installed on A2L refrigerant ready air handlers.

#### MOTOR

Pre-programmed, 5-speed, ECM motors that ensure higher efficiency and increased energy savings by delivering constant torque during operation.

#### LOW LEAKAGE CABINET

Less than 2% air leakage from cabinet when tested in accordance with ASHRAE standard 193. Unit must be installed according to Aspen installation instructions. Sturdy, fully insulated galvanized steel cabinet; stick pins ensure 1/2" insulation remains in place. Unit ships with disposable filter.

#### MODULAR ELECTRIC HEAT KITS

Heat kits available with either circuit breakers or terminal blocks. Available in 3,5,6,8, and 10 KW. Models with electric heat include sequencers and temperature limit switches for safe, efficient operation. Modules are easily installed in the field using molex plugs or can be ordered factory installed. Controls are accessible from the front for easy service. Electrical connections can be made from

the top or left. Disconnect does not protrude through the wall panel. Fan time delay relay standard for increased efficiency.

#### BLOWER

Direct drive multi-speed blowers circulate air quietly and efficiently. Motor speeds can be easily selected via motor terminals. Swing mounted blowers can be easily removed for service.

#### ELECTRONIC CIRCUIT BOARD

Electronic circuit board provides 30 secs ON/OFF blower time delay extracting more heat/cool from the coil. Automotive-style pull fuse protection on the circuit board to provide low voltage and transformer protection.

#### DX COIL

High-efficiency rifled copper tubes/enhanced aluminum fins provide maximum heat transfer. All coils immersion tested at 500 psi then Nitrogen pressurized and factory sealed for maximum reliability. Liquid-line Schrader allows pre-installation pressure testing. Available with either check style flowrater or TXV metering device. Field-installable TXVs are also available. Galvanized metal drain pan with bottom primary and secondary drain connections or alternate right side primary. All connections 3/4" NPT. Access door allows for coil cleaning.

**WARRANTY** Ten-year limited parts warranty.

**OPTIONS** See options menu.



### WANT MORE INFORMATION ON ASPEN'S AEW SERIES AIR HANDLERS?

SCAN QR CODE TO VISIT THIS PRODUCT ON OUR WEBSITE



**For complete warranty details, please visit our Warranty Information tab when you visit Aspen's website. To view this coil's product information online for the most up-to-date information scan the QR Code.**

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HEATING/COOLING PERFORMANCE & ELECTRICAL DATA										
MODEL	ELECTRIC HEAT KIT	PERFORMANCE DATA					ELECTRICAL DATA			
		NOM. COOLING (BTU)	HEATING (KW)		HEATING CAPACITY (MBTUH)		MIN. CIRCUIT AMPACITY (MCA)		MAX BREAKER OR FUSE SIZE	
			208V	240V	208V	240V	208V	240V	208V	240V
AEW 18	F(C,T)S00	18,000	0.0	0.0	0.0	0.0	3.5	3.5	15	15
	F(C,T)S03		2.3	3.0	7.8	10.2	17.0	19.1	20	20
	F(C,T)S05		3.7	4.8	12.6	16.4	25.1	28.5	30	30
	F(C,T)S06		4.6	6.0	13.5	17.9	30.5	34.8	35	35
	F(C,T)S08		6.0	8.0	20.5	27.3	39.6	45.2	40	50
	F(C,T)S10		7.2	9.6	24.5	32.8	46.8	53.5	50	50
AEW 19/20	F(C,T)S00		0.0	0.0	0.0	0.0	3.0	3.0	15	15
	F(C,T)S03		2.3	3.0	7.8	10.2	16.5	18.6	20	20
	F(C,T)S05		3.7	4.8	12.6	16.4	24.6	28.0	30	30
	F(C,T)S06		4.6	6.0	13.5	17.9	30.0	34.3	35	35
	F(C,T)S08		6.0	8.0	20.5	27.3	39.1	44.7	40	50
	F(C,T)S10		7.2	9.6	24.5	32.8	46.3	53.0	50	60
AEW 23/24	F(C,T)S00	24,000	0.0	0.0	0.0	0.0	3.5	3.5	15	15
	F(C,T)S03		2.3	3.0	7.8	10.2	17.0	19.1	20	20
	F(C,T)S05		3.7	4.8	12.6	16.4	25.1	28.5	30	30
	F(C,T)S06		4.6	6.0	13.5	17.9	30.5	34.8	35	35
	F(C,T)S08		6.0	8.0	20.5	27.3	39.6	45.2	40	50
	F(C,T)S10		7.2	9.6	24.5	32.8	46.8	53.5	50	60
AEW 25/26	F(C,T)S00		0.0	0.0	0.0	0.0	3.0	3.0	15	15
	F(C,T)S03		2.3	3.0	7.8	10.2	16.5	18.6	20	20
	F(C,T)S05		3.7	4.8	12.6	16.4	24.6	28.0	30	30
	F(C,T)S06		4.6	6.0	13.5	17.9	30.0	34.3	35	35
	F(C,T)S08		6.0	8.0	20.5	27.3	39.1	44.7	40	50
	F(C,T)S10		7.2	9.6	24.5	32.8	46.3	53.0	50	60
AEW 30	F(C,T)M00	30,000	0.0	0.0	0.0	0.0	5.1	5.1	15	15
	F(C,T)M03		2.3	3.0	7.8	10.2	18.6	20.8	20	25
	F(C,T)M05		3.7	4.8	12.6	16.4	26.8	30.1	30	35
	F(C,T)M06		4.6	6.0	13.5	17.9	32.2	36.4	35	40
	F(C,T)M08		6.0	8.0	20.5	27.3	41.2	46.8	45	50
	F(C,T)M10		7.2	9.6	24.5	32.8	48.4	55.1	50	60
AEW 31	F(C,T)M00		0.0	0.0	0.0	0.0	4.5	4.5	15	15
	F(C,T)M03		2.3	3.0	7.8	10.2	18.0	20.1	20	25
	F(C,T)M05		3.7	4.8	12.6	16.4	26.1	29.5	30	35
	F(C,T)M06		4.6	6.0	13.5	17.9	31.6	35.8	35	40
	F(C,T)M08		6.0	8.0	20.5	27.3	40.6	46.2	45	50
	F(C,T)M10		7.2	9.6	24.5	32.8	47.8	54.5	50	60

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BLOWER DATA												
MODEL	X13 MOTOR				CFM VS EXTERNAL STATIC*† (WET COIL)							
	SPEED TAP	HP	AMPS	VOLT	0.1	0.2	0.3	0.4	0.5			
AEW 18/23/24	T1	1/3	2.8	240	909	864	840	800	782			
	T2				723	690	652	631	600			
	T3				600	565	539	502	480			
	T4				723	690	652	631	600			
	T5				909	864	840	800	782			
AEW 19/25	T1							670	645	615	590	570
	T2							800	780	750	730	695
	T3							875	850	820	790	760
	T4							980	955	930	900	875
	T5							1065	1035	1015	995	970
AEW 20/26	T1							655	630	605	580	560
	T2							785	765	735	715	685
	T3							860	835	805	775	745
	T4							960	935	910	885	860
	T5							1045	1015	995	975	950
AEW 30/36	T1				1/2	4.1	240	1365	1332	1303	1271	1240
	T2							745	698	668	630	600
	T3							898	873	853	827	800
	T4							1174	1132	1106	1078	1047
	T5							1365	1332	1303	1271	1240
AEW 31/37	T1							745	715	675	640	615
	T2							940	910	875	840	805
	T3							1100	1070	1025	995	965
	T4							1220	1180	1155	1115	1085
	T5							1385	1350	1330	1290	1270

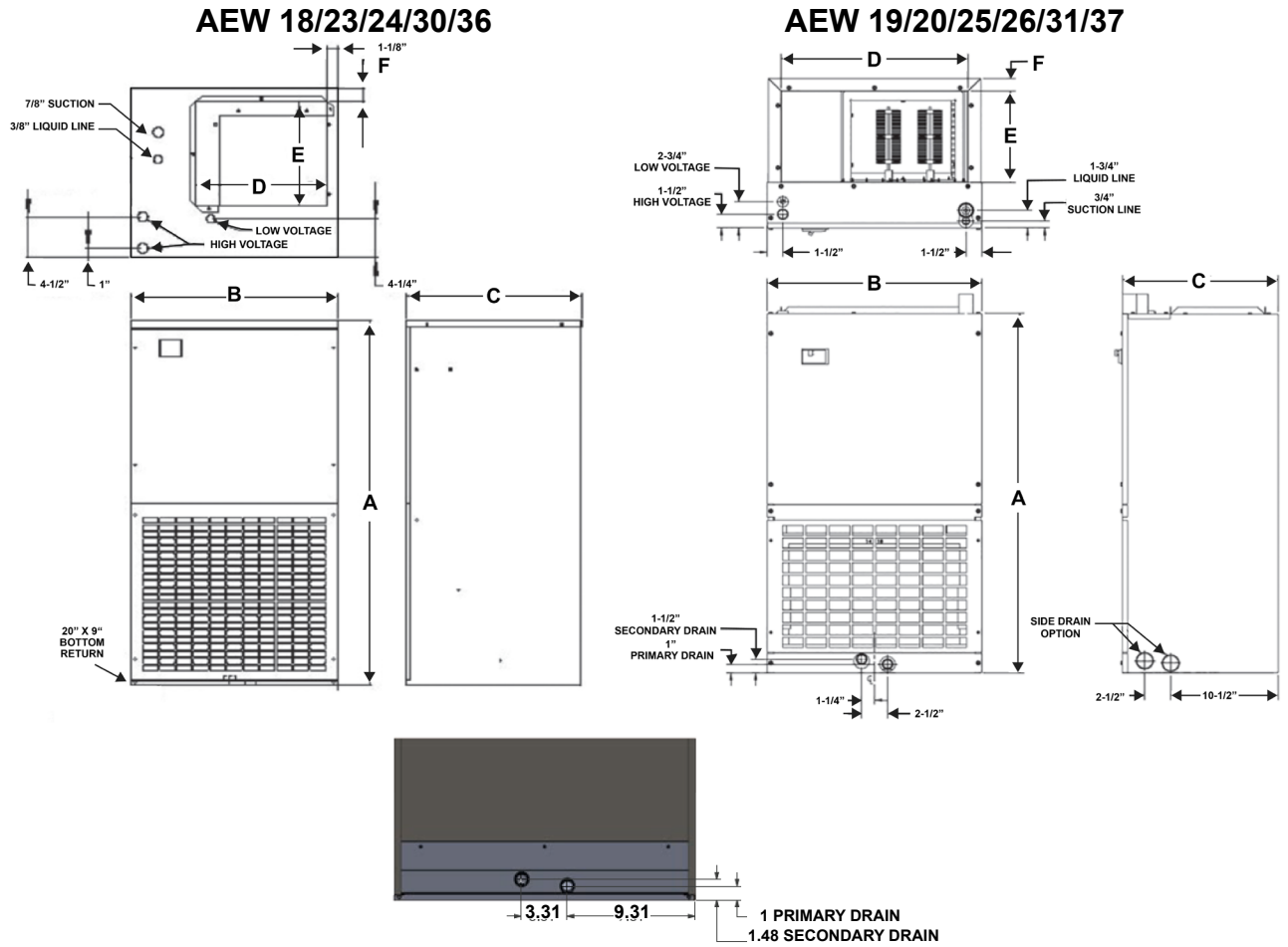
\* Wet coil with filter †For 208 operation multiply by 0.90

AIR HANDLER CHASSIS NOMENCLATURE			
AEW	NOM. TON.	METERING DEVICE	OPTION CODE
	18	F	-001
240V X13 MOTOR VERTICAL WALL-MOUNT DOWNFLOW ELECTRIC FURNACE	18 = 18,000 24 = 24,000 30 = 30,000 36 = 36,000 (MBTUH)	<b>A1</b> <b>4</b> = R410A (TXV NON-BLEED A/C or H/P) <b>G</b> = R410A (PISTON) <b>6</b> = R410A (TXV 20% BLEED A/C or H/P) <b>F</b> = R22 (PISTON) <b>X</b> = R22 (TXV NON-BLEED A/C or H/P)	OPTION CODE
		<b>A2L</b> <b>J</b> = R454B (TXV NON-BLEED A/C or H/P) <b>M</b> = R32 (PISTON) <b>K</b> = R454B (TXV 20% BLEED A/C or H/P) <b>N</b> = R454B (PISTON) <b>D</b> = R32 (TXV NON-BLEED A/C or H/P)	

ELECTRIC HEAT KIT NOMENCLATURE			
HEAT KIT SERIES	POWER CONNECTION	CABINET SIZE & NOM. TON.	HEAT STRIP
F	C	L	03
WALL-MOUNT ELECTRIC HEAT	<b>C</b> = CIRCUIT BREAKER <b>T</b> = TERMINAL BLOCK	<b>S (SMALL)</b> 18-26 <b>M (MEDIUM)</b> 30-37	<b>03</b> = 3 KW <b>05</b> = 5 KW <b>08</b> = 8 KW <b>10</b> = 10 KW

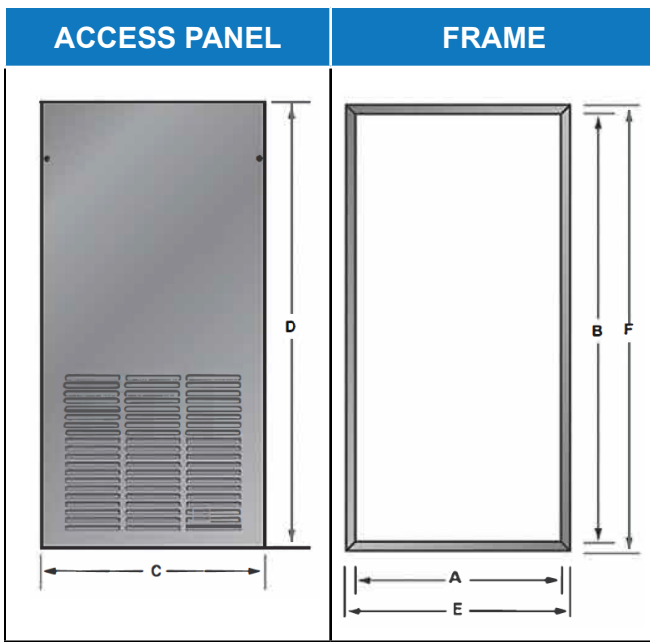
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**FIGURE 1**



DIMENSIONS AND SPECIFICATIONS (In.) - FIGURE 1										
MODEL	A	B	C	D	E	F	FILTER	PISTON	SHIPPING INFO	
									WEIGHT	QTY
AEW18*	37-1/2 [953]	22 [559]	18-3/4 [476]	14 [356]	10 [254]	3-1/4 [83]	20X20	0.049	90	4
AEW19*	36 [915]	20-1/2 [521]	15 [381]	18 [457]	9-1/4 [235]	1-1/4 [32]	14X18	0.049	80	
AEW20*	36 [915]	20-1/2 [521]	15 [381]	18 [457]	9-1/4 [235]	1-1/4 [32]	14X18	0.049	80	
AEW23*	37-1/2 [953]	22 [559]	18-3/4 [476]	14 [356]	10 [254]	3-1/4 [83]	20X20	0.049	90	
AEW24*	37-1/2 [953]	22 [559]	18-3/4 [476]	14 [356]	10 [254]	3-1/4 [83]	20X20	0.049	90	
AEW25*	36 [915]	20-1/2 [521]	15 [381]	18 [457]	9-1/4 [235]	1-1/4 [32]	14X18	0.055	80	
AEW26*	36 [915]	20-1/2 [521]	15 [381]	18 [457]	9-1/4 [235]	1-1/4 [32]	14X18	0.055	80	
AEW30*	40-1/2 [1029]	22 [559]	18-3/4 [476]	14 [356]	11-1/2 [292]	1-3/8 [35]	20X20	0.059	102	
AEW31*	36 [915]	24 [610]	21 [533]	21-1/2 [546]	12 [305]	1-1/4 [32]	20X20	0.059	90	
AEW36*	40-1/2 [1029]	22 [559]	18-3/4 [476]	14 [356]	11-1/2 [292]	1-3/8 [35]	20X20	0.068	102	
AEW37*	36 [915]	24 [610]	21 [533]	21-1/2 [546]	12 [305]	1-1/4 [32]	20X20	0.068	90	

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INSTALLATION CLEARANCES (In.)		
CABINET CLEARANCE AREA	OPERATION	SERVICE
TOP	0	0
FRONT		30"
SIDES		
REAR		0

DIMENSIONS & SPECIFICATIONS (In.)									
PANEL MODEL	FOR USE WITH	FINISH	OPENING SIZE		PANEL SIZE		FRAME SIZE		# OF PANELS
			A	B	C	D	E	F	
WAD-7(S/L)	AEW 18/23/24	EMBOSSSED	22-5/8	39-7/8	24-1/4	41-1/2	24-1/8	41-3/8	1
WAD-8(S/L)	AEW 30/36		22-5/8	42-7/8	24-1/4	41-1/2	24-1/8	44-3/8	
WAD-18(S/L)	AEW 18/23/24	SMOOTH	22-5/8	39-7/8	24-1/4	41-1/2	24-1/8	41-3/8	
WAD-19(S/L)	AEW 30/36		22-5/8	42-7/8	24-1/4	41-1/2	24-1/8	44-3/8	
WAD-20(S/L)	AEW 19/20/25/26	EMBOSSSED	21-1/8	38-3/8	22-3/4	40	22-5/8	39-7/8	
WAD-21(S/L)	AEW 31/37		24-5/8	38-3/8	26-1/4	40	26-1/8	39-7/8	
WAD-22(S/L)	AEW 19/20/25/26	SMOOTH	21-1/8	38-3/8	22-3/4	40	22-5/8	39-7/8	
WAD-23(S/L)	AEW 31/37		24-5/8	38-3/8	26-1/4	40	26-1/8	39-7/8	

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