

# AEW SERIES - AIR HANDLER

## ELECTRIC VERTICAL WALL MOUNT, COPPER COIL



Unit shown with service panels removed. Representative image only. Some models may vary in appearance.

### 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.

- A2L refrigerants require a Refrigerant Detection System (RDS) for compliance. In accordance to UL 60335 Refrigerant Detection Systems are factory-installed on A2L refrigerant ready air handlers.
- ETL and AHRI listed for R22, R410A, R454B, and R32 refrigerants [A2L refrigerants certified with Refrigerant Detection System (RDS)].

### 240V CONSTANT TORQUE ECM MOTOR

Pre-programmed, multi-speed, 208V/240V ECM motors that ensure higher efficiency and increased energy savings by delivering constant torque during operation. Motors are pre-programmed with speeds and torques at the factory for optimal performance and reliability. Direct drive blowers circulate air quietly and efficiently. Rail mounted blowers provide easy removal for service and maintenance.

### 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.

### LOW LEAKAGE CABINET

Sturdy, fully insulated galvanized steel cabinet; stick pins ensure 1/2" insulation remains in place. Unit ships with disposable filter. Less than 1.4% air leakage from cabinet when tested in accordance with ASHRAE standard 193. Unit must be installed according to Aspen installation instructions.

### DX COIL

High-efficiency rifled copper tubes and enhanced aluminum fins provide maximum heat transfer. All coils are immersion tested at 500 psi, followed by nitrogen pressurization and factory sealing to ensure optimal system integrity and long-term reliability. Liquid-line Schrader allows pre-installation pressure assurance testing.

Available with either check style flowrator 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.

### MODULAR ELECTRIC HEAT KITS

Heat kits available with either circuit breakers or terminal blocks. Available from 3 to 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.

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

**OPTIONS** Ask your local Aspen Sales Rep for customization options.

### CUSTOMIZATION OPTIONS\*

#### UNIVERSAL A2L REFRIGERANT TECHNOLOGY FOR R32 & R454B SYSTEMS

Aspen coils and air handlers are engineered with Universal A2L Refrigerant Technology, allowing field configurability for either R32 or R454B refrigerants. Each unit ships with a factory-installed A2L metering device that can be easily swapped at installation, and includes the option for a factory- or field-installed universal Refrigerant Detection System (RDS) compatible with both refrigerants.

AEW-SS-AH-001-B



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HEATING/COOLING PERFORMANCE & ELECTRICAL DATA										
MODEL	ELECTRIC HEAT KIT MODEL	MIN. SPEED TAP	PERFORMANCE DATA				ELECTRICAL DATA			
			HEATING		HEATING CAPACITY		MIN. CIRCUIT AMPACITY		MAX. BREAKER OR FUSE SIZE	
			KW		MBTUH		MCA			
			208V	240V	208V	240V	208V	240V	208V	240V
AEW 18/23/24	F(C,T)S00	-	0.0	0.0	2.8	2.8	3.5	3.5	15A	15A
	F(C,T)S03	T4	2.3	3.0	13.6	15.3	17.0	19.1	20A	20A
	F(C,T)S05	T4	3.6	4.8	20.1	22.8	25.1	28.5	30A	30A
	F(C,T)S06	T4	4.5	6.0	24.4	27.8	30.5	34.8	25A	35A
	F(C,T)S08	T5	6.0	8.0	31.6	36.1	39.6	45.2	40A	50A
	F(C,T)S10	T5	7.2	9.6	37.4	42.8	46.8	53.5	50A	60A
AEW 19/20/ 25/26	F(C,T)S00	-	0.0	0.0	2.8	2.8	3.5	3.5	15A	15A
	F(C,T)S03	T2	2.3	3.0	13.6	15.3	17.0	19.1	20A	20A
	F(C,T)S05	T2	3.6	4.8	20.1	22.8	25.1	28.5	30A	30A
	F(C,T)S06	T4	4.5	6.0	24.4	27.8	30.5	34.8	25A	35A
	F(C,T)S08	T4	6.0	8.0	31.6	36.1	39.6	45.2	40A	50A
	F(C,T)S10	T4	7.2	9.6	37.4	42.8	46.8	53.5	50A	60A
AEW 30	F(C,T)M00	-	0.0	0.0	4.1	4.1	5.1	5.1	15A	15A
	F(C,T)M03	T2	2.3	3.0	14.9	16.6	18.6	20.8	20A	25A
	F(C,T)M05	T2	3.6	4.8	21.4	24.1	26.8	30.1	30A	35A
	F(C,T)M06	T3	4.5	6.0	25.7	29.1	32.2	36.4	35A	40A
	F(C,T)M08	T3	3.0	8.0	32.9	37.4	41.2	46.8	45A	50A
	F(C,T)M10	T3	7.2	9.6	38.7	44.1	48.4	55.1	50A	60A
AEW 31	F(C,T)M00	-	0.0	0.0	4.1	4.1	5.1	5.1	15A	15A
	F(C,T)M03	T2	2.3	3.0	14.9	16.6	18.6	20.8	20A	25A
	F(C,T)M05	T2	3.6	4.8	21.4	24.1	26.8	30.1	30A	35A
	F(C,T)M06	T3	4.5	6.0	25.7	29.1	32.2	36.4	35A	40A
	F(C,T)M08	T3	3.0	8.0	32.9	37.4	41.2	46.8	45A	50A
	F(C,T)M10	T3	7.2	9.6	38.7	44.1	48.4	55.1	50A	60A
AEW 36	F(C,T)M00	-	0.0	0.0	4.1	4.1	5.1	5.1	15A	15A
	F(C,T)M03	T4	2.3	3.0	14.9	16.6	18.6	20.8	20A	25A
	F(C,T)M05	T4	3.6	4.8	21.4	24.1	26.8	30.1	30A	35A
	F(C,T)M06	T5	4.5	6.0	25.7	29.1	32.2	36.4	35A	40A
	F(C,T)M08	T5	3.0	8.0	32.9	37.4	41.2	46.8	45A	50A
	F(C,T)M10	T5	7.2	9.6	38.7	44.1	48.4	55.1	50A	60A
AEW 37	F(C,T)M00	-	0.0	0.0	4.1	4.1	5.1	5.1	15A	15A
	F(C,T)M03	T4	2.3	3.0	14.9	16.6	18.6	20.8	20A	25A
	F(C,T)M05	T4	3.6	4.8	21.4	24.1	26.8	30.1	30A	35A
	F(C,T)M06	T5	4.5	6.0	25.7	29.1	32.2	36.4	35A	40A
	F(C,T)M08	T5	3.0	8.0	32.9	37.4	41.2	46.8	45A	50A
	F(C,T)M10	T5	7.2	9.6	38.7	44.1	48.4	55.1	50A	60A

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BLOWER DATA								
MODEL	240V ECM MOTOR			CFM VS EXTERNAL STATIC*† (WET COIL)				
	SPEED TAP	HP	AMPS	0.1	0.2	0.3	0.4	0.5
AEW 18/23/24	T1	1/3	2.8	909	864	840	800	782
	T2	1/3	2.8	723	690	652	631	600
	T3	1/3	2.8	600	656	539	502	480
	T4	1/3	2.8	723	690	652	631	600
	T5	1/3	2.8	909	864	840	800	782
AEW 19/25	T1	1/3	2.8	670	645	615	590	570
	T2	1/3	2.8	800	780	750	730	695
	T3	1/3	2.8	875	850	820	790	760
	T4	1/3	2.8	980	955	930	900	875
	T5	1/3	2.8	1065	1035	1015	995	970
AEW 20/26	T1	1/3	2.8	655	630	605	580	560
	T2	1/3	2.8	785	765	735	715	685
	T3	1/3	2.8	860	835	805	775	745
	T4	1/3	2.8	960	835	805	775	745
	T5	1/3	2.8	1045	1015	995	975	950
AEW 30/36	T1	1/2	4.1	1365	1332	1303	1271	1240
	T2	1/2	4.1	745	698	668	630	600
	T3	1/2	4.1	898	873	853	827	880
	T4	1/2	4.1	1174	1132	1106	1078	1047
	T5	1/2	4.1	1365	1332	1303	1271	1240
AEW 31/37	T1	1/2	4.1	745	715	675	640	615
	T2	1/2	4.1	940	910	875	840	805
	T3	1/2	4.1	1100	1070	1025	995	965
	T4	1/2	4.1	1220	1180	1155	1115	1085
	T5	1/2	4.1	1385	1350	1330	1290	1270

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

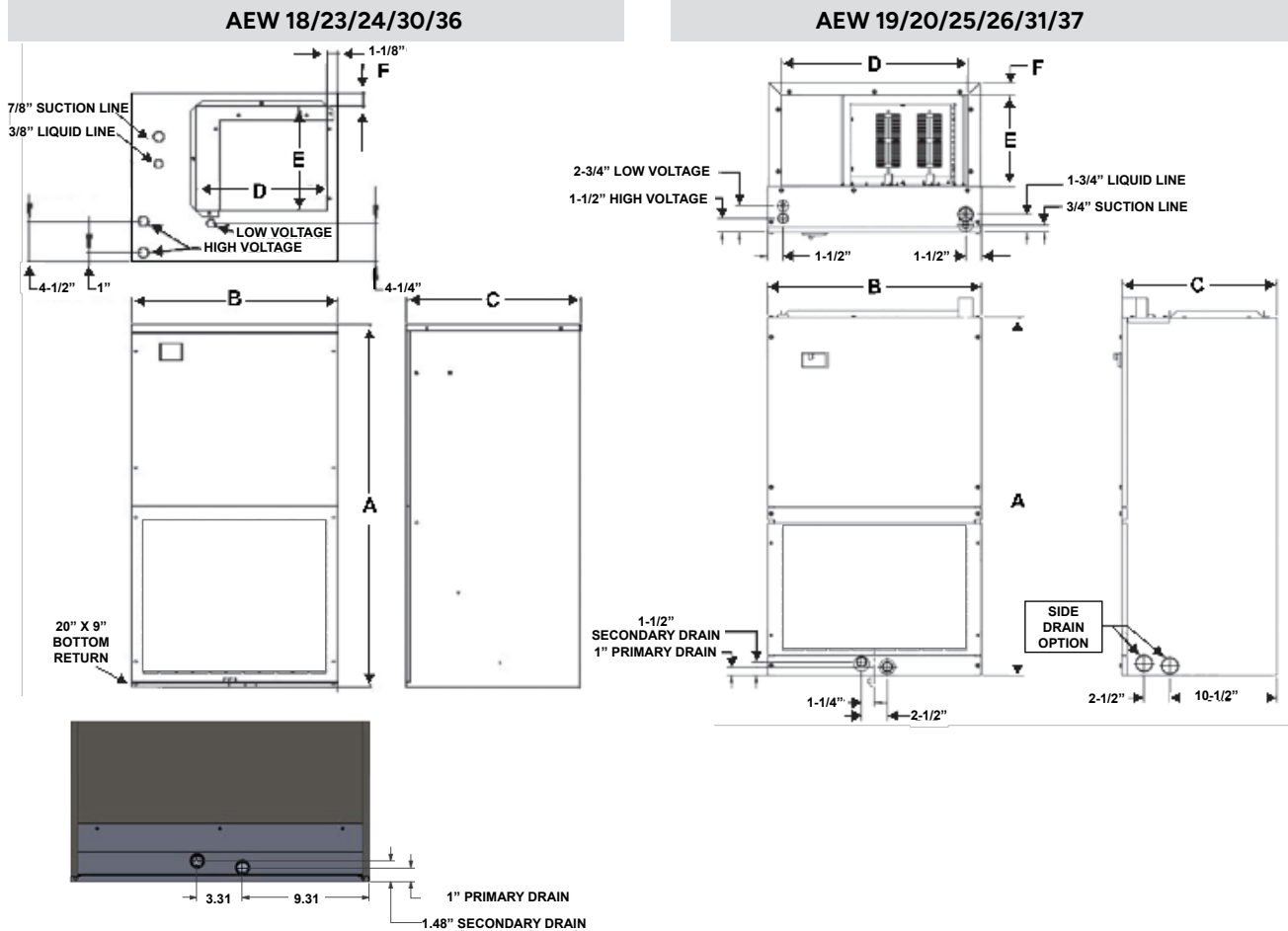
AIR HANDLER CHASSIS NOMENCLATURE				
AEW	NOM. TON.	METERING DEVICE	OPTION CODE	
	MBTUH	F	-001	
240V ECM MOTOR ERTICAL WALL-MOUNT DOWNFLOW ELECTRIC FURNACE	18	A1 REFRIGERANTS - R410A + R22	CUSTOM OPTIONS	
	19	X = R22 (TXV NON-BLEED AC/HP)    4 = R410A (TXV NON-BLEED AC/HP) B = R22 (TXV 20% BLEED AC/HP)    G = R410A (FLOWRATOR) F = R22 (FLOWRATOR)		
	20			
	23			
	24	A2L REFRIGERANTS - R454B + R32		
	25			
	26			J = R454B (TXV NON-BLEED AC/HP)    D = R32 (TXV NON-BLEED AC/HP) K = R454B (TXV 20% BLEED AC/HP)    M = R32 (PISTON) Z = R454B/R32 CONFIGURABLE    N = R454B (PISTON) (Shipped with Piston)
	30			
	31			
	36			
	37			

ELECTRIC HEAT KIT NOMENCLATURE			
HEAT KIT SERIES	POWER CONNECTION	CABINET SIZE & NOM. TON.	HEAT STRIP
F	C	S/M	KW
WALL-MOUNT ELECTRIC HEAT	<b>C</b> = CIRCUIT BREAKER <b>T</b> = TERMINAL BLOCK	<b>M</b> = 30-37 <b>S</b> = 18-26	<b>00</b> = 0 KW <b>03</b> = 3 KW <b>05</b> = 5 KW <b>06</b> = 6 KW <b>08</b> = 8 KW <b>10</b> = 10 KW

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**FIGURE 1**

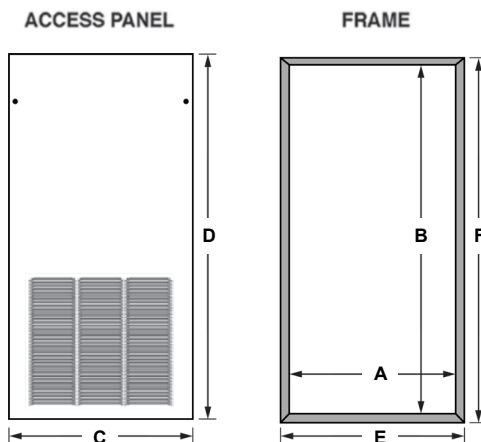


**DIMENSIONS AND SPECIFICATIONS (In.)[mm.] - FIGURE 1**

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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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	EMBOSSSED	22-5/8	42-7/8	24-1/4	44-1/2	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	SMOOTH	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	EMBOSSSED	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	SMOOTH	24-5/8	38-3/8	26-1/4	40	26-1/8	39-7/8	

## HELPFUL LINKS



### VIEW PRODUCT ONLINE

For full warranty terms and conditions, please refer to the Warranty Information section on Aspen's official website.



### ASK YOUR LOCAL SALES REP OR SCAN TO LEARN MORE

Aspen's A2L Refrigerant Technology for R32 and R454B Systems.

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