# **AEW SERIES ELECTRIC HEAT AIR HANDLER**

# HIGH-EFFICIENCY WALL MOUNT



#### 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 listed for R22 and R410A. ETL listed for R454B and R32 with Refrigerant Detection System (RDS).

#### **240V CONSTANT TORQUE ECM MOTOR**

Pre-programmed, 5-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.

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

#### **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 options.



## UNIVERSAL A2L REFRIGERANT TECHNOLOGY FOR R32 & R454B SYSTEMS



#### IDEAL FOR USE WITH ASPEN AIR HANDLERS, AS WELL AS CASED & UNCASED COILS!

Versa Pro coils are easily configurable for use with either R32 or R454B refrigerant with proper metering device. Utilizing universal Refrigerant Detection Systems (RDS) to ensure regulatory compliance.

## **OTHER POPULAR CUSTOM OPTIONS:**

- **DOWNFLOW KIT OPTIONS:**
- Refrigerant Detection System (RDS) kit factory-installed.
- 16" DWNFLWM-16

**METAL DRAIN PANS** 

DWNFLWP

**PLASTIC DRAIN PANS** 

Factory or field-installed TXV available.

18" DWNFLWM-18

AEW-SS-AH-001-A













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		HEAT		DLING PE		CE & ELEC	CTRICAL			
			ORMANCE	ELECTRICAL DATA						
MODEL	ELECTRIC HEAT KIT	NOM. COOLING	HEATING KW			TING ACITY	MIN. CIRCUIT AMPACITY		MAX. BREAKER	
	MODEL	COOLING			MBTUH		MCA		OR FUSE SIZE	
		BTU	208V	240V	208V	240V	208V	240V	208V	240V
	F(C,T)S00		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
AEW	F(C,T)S05		3.7	4.8	12.6	16.4	25.1	28.5	30	30
18	F(C,T)S06	ĺ	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	18,000	7.2	9.6	24.5	32.8	46.8	53.5	50	50
	F(C,T)S00	10,000	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
AEW	F(C,T)S05		3.7	4.8	12.6	16.4	24.6	28.0	30	30
19/20	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
	F(C,T)S00		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
AEW	F(C,T)S05		3.7	4.8	12.6	16.4	25.1	28.5	30	30
23/24	F(C,T)S06	24,000	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
	F(C,T)S00		0.0	0.0	0.0	0.0	3.0	3.0	_	
	F(C,T)S03		2.3	3.0	7.8	10.2	16.5	18.6	-	
AEW 25/26	F(C,T)S05		3.7	4.8 6.0	12.6	16.4 17.9	24.6 30.0	28.0		
25/20	F(C,T)S06 F(C,T)S08		6.0	8.0	13.5 20.5	27.3	39.1	34.3 44.7	15 15 20 20 30 30 35 35 40 50 50 60 15 15 20 25	
	F(C,T)S10		7.2	9.6	24.5	32.8	46.3	53.0		
	F(C,T)M00		0.0	0.0	0.0	0.0	5.1	5.1	40 50	
	F(C,T)S03		2.3	3.0	7.8	10.2	18.6	20.8		
AEW	F(C,T)M05		3.7	4.8	12.6	16.4	26.8	30.1	30	35
30	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
	F(C,T)M00	30,000	0.0	0.0	0.0	0.0	4.5	4.5	15	15
	F(C,T)S03		2.3	3.0	7.8	10.2	18.0	20.1	20	25
AEW	F(C,T)M05		3.7	4.8	12.6	16.4	26.1	29.5	30	35
31	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
	F(C,T)M00		0.0	0.0	0.0	0.0	5.1	5.1	15	15
	F(C,T)S03		2.3	3.0	7.8	10.2	18.6	20.8	20	25
AEW	F(C,T)M05		3.7	4.8	12.6	16.4	26.8	30.1	30	35
36	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	46.2	45	50
	F(C,T)M10	36 000	7.2	9.6	24.5	32.8	48.4	55.1	50	60
	F(C,T)M00	36,000	0.0	0.0	0.0	0.0	4.5	4.5	15	15
	F(C,T)S03		2.3	3.0	7.8	10.2	18.0	20.1	20	25
AEW	F(C,T)M05		3.7	4.8	12.6	16.4	26.1	29.5	30	35
36	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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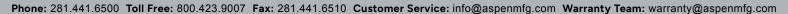
			BLC	OWER DATA					
	240\	/ ECM MOTOR	₹	CFM VS EXTERNAL STATIC*† (WET COIL)					
MODEL	SPEED TAP	HP	AMPS	0.1	0.2	0.3	0.4	0.5	
	T1			909	864	840	800	782	
	T2			723	690	652	631	600	
AEW 18/23/24	Т3	1/3	2.8	600	565	539	502	480	
10/20/24	T4			723	690	652	631	600	
	T5			909	864	840	800	782	
	T1			670	645	615	590	570	
	T2			800	780	750	730	695	
AEW 19/25	Т3	1/3	2.8	875	850	820	790	760	
13/23	T4			980	955	930	900	875	
	T5			1065	1035	1015	995	970	
	T1			655	630	605	580	560	
	T2			785	765	735	715	685	
AEW 20/26	Т3	1/3	2.8	860	835	805	775	745	
20/20	T4			960	935	910	885	860	
	T5			1045	1015	995	975	950	
	T1			1365	1332	1303	1271	1240	
	T2			745	698	668	630	600	
AEW 30/36	Т3	1/2	4.1	898	873	853	827	800	
00/00	T4			1174	1132	1106	1078	1047	
	T5			1365	1332	1303	1271	1240	
	T1			745	715	675	640	615	
	T2			940	910	875	840	805	
AEW 31/37	Т3	1/2	4.1	1100	1070	1025	995	965	
	T4			1220	1180	1155	1115	1085	
	T5			1385	1350	1330	1290	1270	

 $<sup>^{\</sup>star}$  Wet coil with filter †For 208 operation multiply by 0.90  $\,$ 

AIR HANDLER CHASSIS NOMENCLATURE									
A F187	NOM. TON.	METERIN	G DEVICE	OPTION CODE					
AEW	AEW MBTUH F								
	18 = 18,000 24 = 24,000 30 = 30,000 36 = 36,000	A1 REFRIGERAN							
240V ECM MOTOR VERTICAL WALL-MOUNT DOWNFLOW ELECTRIC FURNACE		F = R22 (FLOWRATOR)							
		A2L REFRIGERAN	CUSTOM OPTIONS						
		J = R454B (TXV NON-BLEED AC OR HP) K = R454B (TXV 20% BLEED AC OR HP) Z = R454B/R32 CONFIGURABLE (Shipped with Pistion)	D = R32 (TXV NON-BLEED AC OR HP) M = R32 (PISTON) N = R454B (PISTON)						

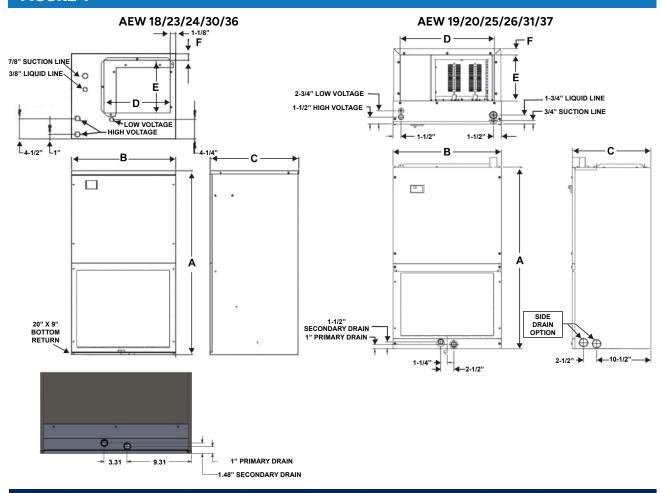
ELECTRIC HEAT KIT NOMENCLATURE									
HEAT KIT SERIES	POWER CONNECTION	CABINET SIZE & NOM. TON.	HEAT STRIP						
F	С	S/M	KW						
WALL-MOUNT ELECTRIC HEAT	C = CIRCUIT BREAKER T = TERMINAL BLOCK	M = MEDIUM (33/34/38) S = SMALL (21/22/28/29)	00 = 0 KW 03 = 3 KW 05 = 5 KW 06 = 6 KW 08 = 8 KW 10 = 10 KW						

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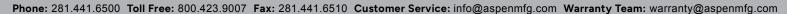


# FIGURE 1

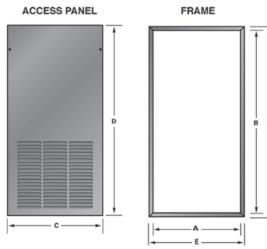


	DIMENSIONS AND SPECIFICATIONS (In.)[mm.] - FIGURE 1											
MODEL	А	В	С	D	Е	F	FILTER	PISTON	SHIPPIN	IG INFO		
WODEL	^						FILTER	FISTON	WEIGHT	QTY		
AEW18*	37-1/2 [953]	22 [559]	18-3/4 [476]	14 [356]	10 [254]	3-1/4 [83]	20X20	0.049	90			
AEW19*	36 [915]	20-1/2 [521]	15 [381]	18 [457]	9-1/4 [235]	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	4		
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	
		FINISH	Α	В	С	D	E	F	PANELS	
WAD-7(S/L)	AEW 18/23/24	EMBOSSED	22-5/8	39-7/8	24-1/4	41-1/2	24-1/8	41-3/8		
WAD-8(S/L)	AEW 30/36	EMBOSSED	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	SMOOTH	22-5/8	42-7/8	24-1/4	41-1/2	24-1/8	44-3/8	1	
WAD-20(S/L)	AEW 19/20/25/26	EMBOSSED	21-1/8	38-3/8	22-3/4	40	22-5/8	39-7/8	'	
WAD-21(S/L)	AEW 31/37	EMBOSSED	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.



## **VIEW VERSA PRO ONLINE**

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

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