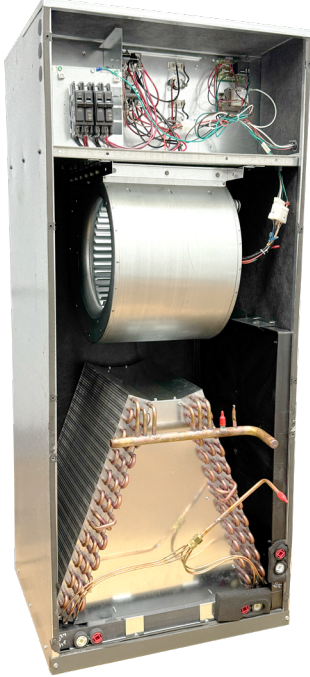


AEM SERIES

MULTI-POSITION 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

Upflow or horizontal right as shipped (field-convertible for down-flow or horizontal left applications). 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

Constant torque ECM speeds and torques are controlled by software embedded in the motor to maintain constant torque. Motors are pre-programmed at the factory.

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.

BLOWER

Direct drive blowers circulate air quietly and efficiently. Motor speeds and torques programmed in the motor. Blowers mounted on rails so they can be easily removed for service.

ELECTRONIC CONTROL 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.

MODULAR ELECTRIC HEAT KITS

Heat kits available with either circuit breakers or terminal blocks. Available from 3 to 25 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.

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 orifice or TXV metering device. Field-installable bolt-on TXVs are also available. Rugged, UV safe, GLP drain pan holds minimal condensate while eliminating the possibility of corrosion. All drain 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 AEM 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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AEM-Spec-2025-04

HEATING/COOLING PERFORMANCE & ELECTRICAL DATA											
MODEL	ELECTRIC HEAT KIT MODEL	PERFORMANCE DATA						ELECTRICAL DATA			
		HEATING (KW)		HEAT KIT ONLY AMPS		HEATING CAPACITY (MBTUH)		MIN. CIRCUIT AMPACITY (MCA)		MAX. BREAKER OR FUSE SIZE	
		208V	240V	208V	240V	208V	240V	208V	240V	208V	240V
AEM 18/19	E(C,T)S00	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5	15	15
	E(C,T)S03	2.3	3.0	11.1	12.5	7.8	10.2	17.0	19.1	20	20
	E(C,T)S05	3.8	5.0	18.3	20.8	13.0	17.1	25.1	28.5	30	30
	E(C,T)S08	6.1	8.0	29.3	33.3	20.8	27.3	39.6	45.2	40	50
	E(C,T)S10	7.6	10.0	36.5	41.7	25.9	34.1	46.8	53.5	50	60
AEM 24/25	E(C,T)S00	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5	15	15
	E(C,T)S03	2.3	3.0	11.1	12.5	7.8	10.2	17.0	19.1	20	20
	E(C,T)S05	3.8	5.0	18.3	20.8	13.0	17.1	25.1	28.5	30	30
	E(C,T)S08	6.1	8.0	29.3	33.3	20.8	27.3	39.6	45.2	40	50
	E(C,T)S10	7.6	10.0	36.5	41.7	25.9	34.1	46.8	53.5	50	60
AEM 30/31	E(C,T)M00	0.0	0.0	0.0	0.0	0.0	0.0	5.1	5.1	15	15
	E(C,T)M03	2.3	3.0	11.1	12.5	7.8	10.2	18.6	20.8	20	25
	E(C,T)M05	3.8	5.0	18.3	20.8	13.0	17.1	26.8	30.1	30	35
	E(C,T)M08	6.1	8.0	29.3	33.3	20.8	27.3	41.3	46.8	45	50
	E(C,T)M10	7.6	10.0	36.5	41.7	25.9	34.1	48.4	55.1	50	60
	E(C,T)M15	11.3	15.0	54.3	62.5	38.6	51.2	48.4/21.6	55.1/25	50/25	60/25
AEM 36/37	E(C,T)M00	0.0	0.0	0.0	0.0	0.0	0.0	5.1	5.1	15	15
	E(C,T)M03	2.3	3.0	11.1	12.5	7.8	10.2	18.6	20.8	20	25
	E(C,T)M05	3.8	5.0	18.3	20.8	13.0	17.1	26.8	30.1	30	35
	E(C,T)M08	6.1	8.0	29.3	33.3	20.8	27.3	41.3	46.8	45	50
	E(C,T)M10	7.6	10.0	36.5	41.7	25.9	34.1	48.4	55.1	50	60
	E(C,T)M15	11.3	15.0	54.3	62.5	38.6	51.2	48.4/21.6	55.1/25	50/25	60/25
AEM 42/43/ 48/49/ 60/61/62	F(C,T)L00	0.0	0.0	0.0	0.0	0.0	0.0	9.5	9.5	15	15
	E(C,T)L05	3.8	5.0	18.3	20.8	13.0	17.1	31.1	34.5	35	35
	E(C,T)L10	7.6	10.0	36.5	41.7	25.9	34.1	52.8	59.5	60	60
	E(C,T)L15	11.3	15.0	54.3	62.5	38.6	51.2	52.8/21.6	59.5/25	60/25	60/25
	E(C,T)L20	15.0	20.0	72.1	83.3	51.2	68.3	52.8/43.3	59.5/50	60/45	60/50
	E(C,T)L25	18.8	25.0	90.4	104.2	64.2	85.3	52.8/ 43.3/21.6	59.5/ 50/25	60/ 45/25	60/ 50/25

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BLOWER DATA											
MODEL	ECM MOTOR				CFM VS EXTERNAL STATIC PRESSURE (WET COIL)						
	SPEED TAP	HP	AMP	VOLT	0.1	0.2	0.3	0.4	0.5	0.6	0.7
AEM 18/19/ 24/25	T5	1/3	2.8	240	932	894	862	827	800	762	-
	T4				750	706	674	627	600	561	-
	T3				600	565	539	502	480	449	-
	T2				750	706	674	627	600	561	-
	T1				932	894	862	827	800	762	-
AEM 30/31/ 36/37	T5	1/2	4.1		1291	1280	1252	1227	1200	1171	-
	T4				1122	1091	1066	1034	1000	982	-
	T3				898	873	853	827	800	786	-
	T2				745	698	668	630	600	558	-
	T1				1291	1280	1252	1227	1200	1171	-
AEM 42/43/ 48/49/ 60/61/ 62	T5	1	7.6		2018	1987	1961	1922	1889	1856	1823
	T4				1738	1696	1667	1636	1598	1566	1527
	T3				1546	1521	1482	1439	1396	1360	1321
	T2				1367	1342	1303	1260	1217	1181	1142
	T1				2018	1987	1961	1922	1889	1856	1823

AIR HANDLER CHASSIS NOMENCLATURE			
AEM	NOM. TON.	METERING DEVICE	OPTION CODE
	18	F	-001
240V CONSTANT TORQUE ECM MULTI-POSITION AIR HANDLER	18 = 18,000 24 = 24,000 30 = 30,000 36 = 36,000 42 = 42,000 60 = 60,000 (MBTUH)	A1 METERING DEVICE 4 = R410A (TXV NON-BLEED A/C or H/P) X = R22 (TXV NON-BLEED A/C or H/P) B = R22 (TXV 20% BLEED A/C or H/P) F = R22 (PISTON) G = R410A (PISTON)	OPTION CODE
		A2L METERING DEVICE J = R454B (TXV NON-BLEED A/C or H/P) K = R454B (TXV 20% BLEED A/C or H/P) D = R32 (TXV NON-BLEED A/C or H/P) M = R32 (PISTON) N = R454B (PISTON)	

ELECTRIC HEAT NOMENCLATURE			
HEAT KIT SERIES	POWER CONNECTION	CABINET SIZE & NOM. TON.	HEAT STRIP
E	C	S	03
ELECTRIC HEAT	C = CIRCUIT BREAKER T = TERMINAL BLOCK	S (SMALL) = 18 - 25 M (MEDIUM) = 30 - 17 L (LARGE) = 42 - 62	03 = 3 KW 10 = 10 KW 05 = 5 KW 15 = 15 KW 06 = 6 KW 20 = 20 KW 08 = 8 KW 25 = 25 KW

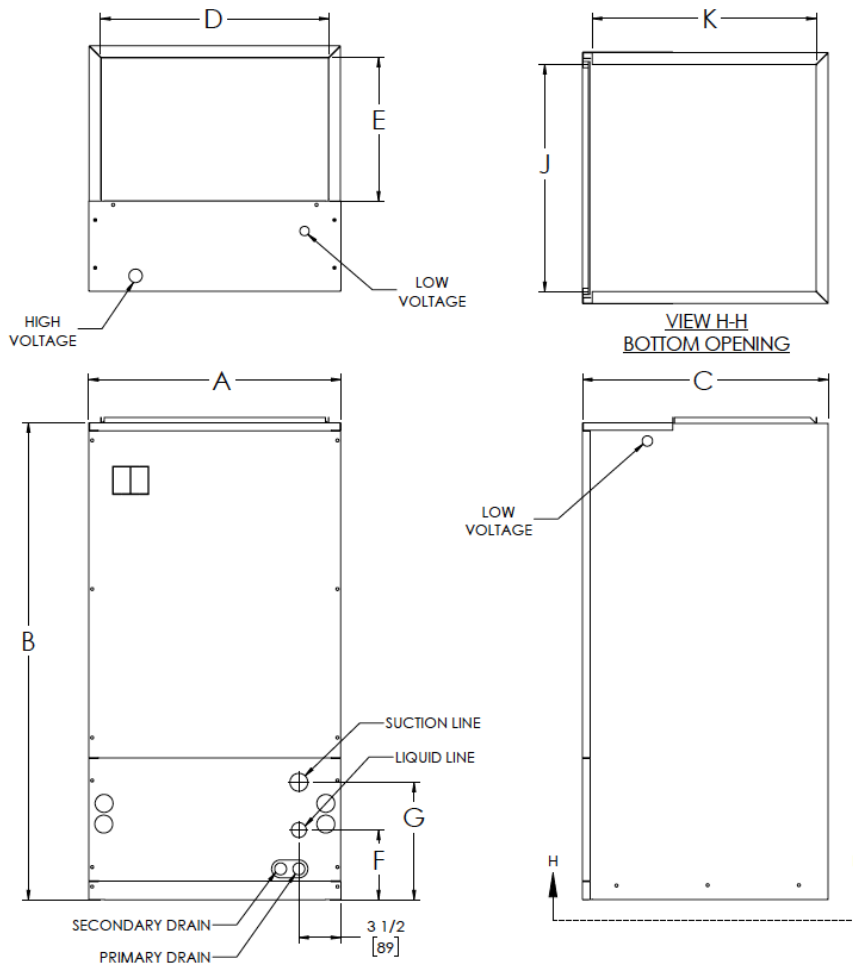
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AEM DIMENSIONS (In.) - FIGURE 1

MODEL	A	B	C	D	E	F	G	J	K	FILTER	SHIPPING INFO	
											WEIGHT	QTY
AEM 18+E*	21 [533]	40 [1016]	20-1/2 [521]	18-3/4 [476]	12 [305]	7-1/4 [184]	10-1/4 [260]	18-1/2 [470]	18-1/2 [470]	16X20	99	4
AEM 19/24/25+E*	21 [533]	40 [1016]		18-3/4 [476]	12 [305]	8-1/4 [209]	12-1/4 [311]	18-1/2 [470]		16X20	100	
AEM 30+E*	21 [533]	49-1/4 [1251]		18-3/4 [476]	12 [305]	8-1/4 [209]	14-1/4 [362]	18-1/2 [470]		16X20	118	
AEM 36+E*	21 [533]	49-1/4 [1251]		18-3/4 [476]	12 [305]	10-1/4 [260]	16-1/4 [412]	18-1/2 [470]		16X20	118	
AEM 31/37+E*	21 [533]	49-1/4 [1251]		18-3/4 [476]	12 [305]	10-1/4 [260]	16-1/4 [412]	18-1/2 [470]		16X20	147	
AEM 42+E*	24-1/2 [622]	57 [1448]		22-1/4 [565]	14-3/4 [375]	11 [279]	16 [406]	22 [559]		20X20	153	
AEM 48+E*	24-1/2 [622]	57 [1448]		22-1/4 [565]	14-3/4 [375]	13 [330]	18 [457]	22 [559]		20X20	180	
AEM 43/49/60/62+E*	24-1/2 [622]	57 [1448]		22-1/4 [565]	14-3/4 [375]	13 [330]	18 [457]	22 [559]		20X20	180	
AEM 61+E*	24-1/2 [622]	57 [1448]		22-1/4 [565]	14-3/4 [375]	15 [381]	20 [508]	22 [559]		20X20	200	

FIGURE 1

SUCTION LINE:
 1.5T to 3.0T = 3/4"
 3.5T to 5.0T = 7/8"
LIQUID LINE: 3/8"



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