

# AE(D/U) SERIES - FURNACE

## ELECTRIC MANUFACTURED HOME, ONE-PIECE



### APPLICATION VERSATILITY

Designed for the manufactured home market with flexibility in mind. One unit for all, Downflow (Front Return) or Upflow (Bottom Return) as shipped (field-convertible for downflow-front and top return and downflow-top return). Can also be field configured to opposite configuration with the proper conversion kit. (Kits sold separately). 2 – 5 tons of cooling or heating airflow with a range of electric heat kits.

### 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.

### ELECTRONIC CIRCUIT BOARD

Electronic circuit board provides 30 secs ON/OFF blower time delay extracting more heat/cool from the coil. Automotive pull-style fuse integrated into board for easy diagnosis and replacement of fuse.

### CABINET

Sturdy, galvanized steel cabinet with painted front panels. Cabinet fully insulated with 1/2" micro mat non-hygroscopic insulation to prevent sweating, encapsulate glass fibers, and to provide excellent R-value. Mechanical fastening ensure insulation remains in place.

### MODULAR ELECTRIC HEAT KITS

Heat kits available with either circuit breakers or terminal blocks. Available from 3 to 20 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** No hassle five-year limited parts warranty.

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

### ONE PIECE BENEFITS & ENHANCEMENTS:

- One piece cabinet, reducing time and effort when field converting airflow orientation. Unit is convertible to either orientation with the correct door/ accessories.
- Reduced air handler weight.
- Heat kits available in both field and factory installation kits.
- AEU/D-S & AEU/D-L one-piece cabinet design fits up to a 27.5 tall coil.

- Electrical access from both sides of the cabinet.
- More room in cabinet for larger coils, as energy efficiencies increase, while maintaining overall cabinet dimensions.
- Rail-mounted blower assembly easily removed for service.
- Redesigned control panel for enhanced interface to wiring and components.
- Sloped coil shelf for optimal condensate management.

\*Constant torque does not change as ESP increases/decreases

### ELECTRIC HEAT KIT NOMENCLATURE

HEAT KIT SERIES	POWER CONNECTION	CABINET SIZE & NOM. TON.	HEAT STRIP
F	<b>C</b> = CIRCUIT BREAKER <b>T</b> = TERMINAL BLOCK	LS = 24-36	<b>00</b> = 0 KW <b>08</b> = 8 KW <b>03</b> = 3 KW <b>10</b> = 10 KW <b>05</b> = 5 KW <b>15</b> = 15 KW <b>06</b> = 6 KW
		LL = 36-60	<b>00</b> = 0 KW <b>08</b> = 8 KW <b>03</b> = 3 KW <b>10</b> = 10 KW <b>05</b> = 5 KW <b>15</b> = 15 KW <b>06</b> = 6 KW <b>20</b> = 20 KW

AED-AEU-SS-EF-002-A



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HEATING/COOLING PERFORMANCE & ELECTRICAL DATA											
MODEL	PERFORMANCE DATA							ELECTRICAL DATA			
	NOM. COOLING BTU	ELECTRIC HEAT KIT	SPEED TAP	HEATING		TOTAL AMPS		MIN. CIRCUIT AMPACITY		MAX. BREAKER OR FUSE SIZE	
				KW	208V	240V	208V	240V	208V	240V	
AE*S	18,000-36,000	F(C,T)LS00	-	0.0	0.0	3.6	3.6	4.5	4.5	15A	15A
		F(C,T)LS03	T1	2.3	3	14.4	16.1	18	20.1	20A	25A
		F(C,T)LS05	T2	3.6	4.8	20.9	23.6	26.1	29.5	30A	30A
		F(C,T)LS06	T2	4.5	6	25.2	28.6	31.5	35.8	35A	40A
		F(C,T)LS08	T2	6	8	32.4	36.9	40.6	46.2	45A	50A
		F(C,T)LS10	T2	7.2	9.6	38.2	43.6	47.8	54.5	50A	60A
		F(C,T)LS15	T3	7.2/3.6	9.6/4.8	38.2/17.3	43.6/20	47.8/21.6	54.5/25	50A/25A	60A/25A
AE*L	36,000-60,000	F(C,T)LL00	-	0.0	0.0	7	7	9.5	9.5	15A	15A
		F(C,T)LL03	T1	2.3	3	17.8	19.5	23	25.1	25A	30A
		F(C,T)LL05	T1	3.6	4.8	24.3	27	31.1	34.5	35A	35A
		F(C,T)LL06	T1	4.5	6	28.6	32	36.5	40	35A	45A
		F(C,T)LL08	T1	6	8	35.8	40.3	45.6	51.2	50A	60A
		F(C,T)LL10	T2	7.2	9.6	41.6	47	52.8	59.5	60A	60A
		F(C,T)LL15	T2	7.2/3.6	9.6/4.8	41.6/17.3	47/20	52.8/21.6	59.5/25	60A/25A	60A/25A
		F(C,T)LL20	T2	7.2/7.2	9.6/9.6	41.6/34.6	47/40	52.8/43.3	59.5/50	60A/45A	60A/50A

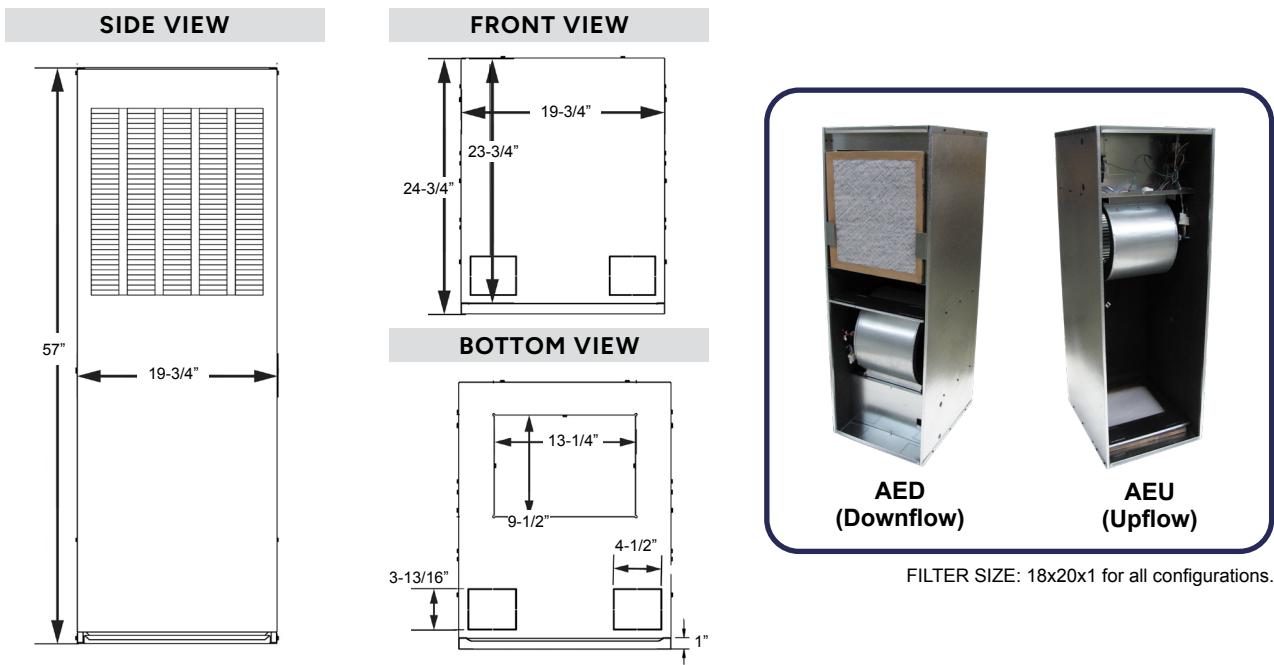
BLOWER DATA													
MODEL	240V ECM MOTOR			CFM VS EXTERNAL STATIC (DRY COIL)									
	SPEED TAP	HP	AMP	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
AE*-S	T1	1/2	3.6	710	650	590	530	470	460	410	340	-	-
	T2	1/2	3.6	770	720	670	630	570	510	450	420	370	340
	T3	1/2	3.6	900	850	810	800	705	660	610	560	510	480
	T4	1/2	3.6	1130	1100	1060	1020	980	940	900	850	810	760
	T5	1/2	3.6	1310	1280	1240	1200	1165	1130	1080	1050	1010	970
AE*-L	T1	1	7.0	1130	1100	1060	1020	965	900	860	810	750	690
	T2	1	7.0	1340	1300	1265	1230	1200	1155	1115	1050	1020	975
	T3	1	7.0	1490	1450	1420	1400	1365	1330	1300	1270	1235	1170
	T4	1	7.0	1670	1640	1610	1585	1550	1520	1500	1460	1430	1400
	T5	1	7.0	1850	1825	1800	1770	1750	1720	1690	1670	1640	1620

CHASSIS NOMENCLATURE																	
CONFIGURATION				NOM. TONNAGE (MBTUH)					OPTION CODE								
AE*				S or L					-003								
U = UPFLOW / BOTTOM RETURN				S (SMALL) = 18 - 36 L (LARGE) = 36 - 60					-003								
D = DOWNTOWNS / FRONT RETURN									-003								
D = DOWNTOWNS / FRONT & TOP RETURN									-004								
D = DOWNTOWNS / TOP RETURN									-005								

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DEFAULT				CONVERTIBLE TO	KIT NEEDED F/ CONVERSION
MODEL	CONFIGUR.	RETURN	DOOR		
AED-S-003	DOWNFLOW	FRONT	LOUVERED	DOWNFLOW/FRONT & TOP RETURN – LOUVER DOOR	AEXK-01
AED-L-003				DOWNFLOW/TOP RETURN – SOLID DOOR	AEXK-02
				UPFLOW/BOTTOM RETURN – SOLID DOOR	AEXK-02
AEU-S-003	UPFLOW	BOTTOM	SOLID	DOWNFLOW/FRONT RETURN – LOUVER DOOR	AEXK-03
AEU-L-003				DOWNFLOW/FRONT & TOP RETURN – LOUVER DOOR	AEXK-03
				DOWNFLOW TOP RETURN – SOLID DOOR	AEXK-01
AED-S-004	DOWNFLOW	FRONT & TOP	LOUVERED	DOWNFLOW/FRONT RETURN – LOUVER DOOR	AEXK-04
AED-L-004				DOWNFLOW/TOP RETURN – SOLID DOOR	AEXK-05
				UPFLOW/BOTTOM RETURN – SOLID DOOR	AEXK-05
AED-S-005	DOWNFLOW	TOP	SOLID	DOWNFLOW/FRONT RETURN – LOUVER DOOR	AEXK-03
AED-L-005				DOWNFLOW/FRONT & TOP RETURN – LOUVER DOOR	AEXK-03
				UPFLOW/BOTTOM RETURN – SOLID DOOR	-

SHIPPING SPECIFICATIONS		
MODEL	WEIGHT (LB)	SKID QTY
AEU-S-003	111	4
AEU-L-003	123	
AED-S-003	116	
AED-L-003	128	
AED-S-004	114	
AED-L-004	126	
AED-S-005	114	
AED-L-005	126	

**FIGURE 1 - AED/AEU DIMENSIONS**


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