ELECTRIC AIR HANDLERS LAM SERIES

LAM SERIES - AIR HANDLER

STANDARD ELECTRIC MULTI-POSITION, ALUMINUM COIL

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

APPLICATION VERSATILITY

Upflow or horizontal right as shipped (field-convertible for downflow or horizontal left applications). Can be AHRI certified 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.
- AHRI listed for R22, R410A, R454B, and R32 refrigerants [A2L refrigerants certified with Refrigerant Detection System (RDS)].

240V PSC MOTOR

The 240V PSC Motor with Electric Heat Option features a direct drive, multi-speed blower that delivers quiet and efficient air circulation. A two-speed motor allows for precise airflow selection, while clearly labeled motor terminals make speed adjustments simple and accurate. The plate-mounted blower assembly enables quick removal for easy service and maintenance. Built for reliability and consistent performance, this motor option is ideal for electric heat applications.

BLOWER

Direct drive blowers circulate air quietly and efficiently. Blowers mounted on rails so they can be easily removed for service.

ELECTRONIC CONTROL BOARD

An electronic board controls the functioning of the system reducing moving parts. The board provides a blower time delay to maximize heat/cool extraction and offers an integrated fuse for additional protection.

LOW LEAKAGE CABINET

Sturdy, fully insulated galvanized steel. Less than 2% air leakage from cabinet when tested in accordance with ASHRAE standard 193. Unit must be installed according to installation instructions.

ALL ALUMINUM COIL

High-efficiency rifled aluminum tubes and enhanced aluminum fins provide maximum heat transfer. All coils factory leak tested with Multi-stage leak testing at 500 psi pressure decay, mass spectrometer tested with Helium, then Nitrogen pressurized and factory sealed optimal system integrity and long-term reliability. Coil mounted Schrader allows pre-installation pressure assurance testing.

Available with either factory installed orifice or TXV metering device. Access door allows or easy coil cleaning.

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.

WARRANTY Ten-year limited 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.

OTHER POPULAR CUSTOM OPTIONS:	DOWNFLOW KIT OPTIONS:	
	METAL DRAIN PANS	PLASTIC DRAIN PANS
• Refrigerant Detection System (RDS) kit factory-installed. • Factory or field-installed TXV available.	• 16” DWNFLWM-16 • 18” DWNFLWM-18	• DWNFLWP

LAM-SS-AH-008-A

ASSEMBLED IN THE USA – TRUSTED QUALITY SINCE 1975 | MEMBER AHRI – AIR-CONDITIONING, HEATING, & REFRIGERATION INSTITUTE – we make life better™ | HARDI – Heating, Air-conditioning & Refrigeration Distributors International – PROUD MEMBER | INTERTEK ETL LISTED c US | R-410A • R-22 • R-454B • R-32 REFRIGERANT READY WHEN PROPER METERING DEVICE IS USED | 10 YEAR LIMITED WARRANTY*

In keeping with its commitment to continuous improvement. Aspen Manufacturing reserves the right to make changes without notice and incurring obligation. To stay up-to-date with this product and Aspen’s trusted line of coils, air handlers, and more, go to our website.

Customer Service: info@aspenmfg.com **Warranty Team:** warranty@aspenmfg.com **Phone:** 281.441.6500 **Toll Free:** 800.423.9007 **Fax:** 281.441.6510

LAM STANDARD HEATING/COOLING PERFORMANCE & ELECTRICAL DATA

MODEL	ELECTRIC HEAT KIT			PERFORMANCE DATA						ELECTRICAL DATA			
	ELECTRIC HEAT KIT MODEL	MIN. MOTOR SPEED TAP REQUIRED F/ HEAT KIT	MIN. CFM REQUIRED F/ HEAT KIT	HEATING		HEAT KIT		HEATING CAPACITY		MIN. CIRCUIT AMPACITY		MAX. BREAKER OR FUSE SIZE	
				KW		A		MBTUH		MCA			
				208V	240V	208V	240V	208V	240V	208V	240V	208V	240V
LAM 24/25	E(C,T)S00	-	-	0.0	0.0	1.4	1.4	0.0	0.0	1.8	1.8	15	15
	E(C,T)S03	LO	660	2.3	3.0	12.2	13.9	7.8	10.2	15.3	17.4	20	20
	E(C,T)S05	LO	660	3.6	4.8	18.7	21.4	13.0	17.1	23.4	26.8	25	30
	E(C,T)S06	HI	732	4.5	6.0	23.0	26.4	15.4	20.5	28.8	33.0	30	35
	E(C,T)S08	HI	732	6.0	8.0	30.2	34.7	20.8	27.3	37.8	43.4	40	45
	E(C,T)S10	HI	732	7.2	9.6	36.0	41.4	25.9	34.1	45.0	51.8	45	60
LAM 26/30/ 31/32 36/37/ 38	E(C,TM00	-	-	0.0	0.0	2.6	2.6	0.0	0.0	3.3	3.3	15	15
	E(C,T)M03	HI	1102	2.3	3.0	13.4	15.1	7.8	10.2	16.8	18.9	20	20
	E(C,T)M05	HI	1102	3.6	4.8	19.9	22.6	13.0	17.1	24.9	28.3	25	30
	E(C,T)M06	HI	1102	4.5	6.0	24.2	27.6	15.4	20.5	30.3	34.5	35	35
	E(C,TM08	HI	1102	6.0	8.0	31.4	35.9	20.8	27.3	39.3	44.9	40	45
	E(C,T)M10	HI	1102	7.2	9.6	37.2	42.6	25.0	34.1	46.5	53.3	50	60
	E(C,T)M15	HI	1102	7.2/ 3.6	9.6/ 4.8	37.2/ 17.3	42.6/ 20	38.6	51.2	46.5/ 21.6	53.3/ 25	50/ 25	60/ 25
LAM 42/43/ 48/49/ 60/61/ 62	E(C,T)L00	-	-	0.0	0.0	4.4	4.4	0.0	0.0	5.5	5.5	15	15
	E(C,T)L03	LO	1368	2.3	3.0	15.2	16.9	7.8	10.2	19.0	21.1	20	25
	E(C,T)L05	LO	1368	3.6	4.8	21.7	24.4	13.0	17.1	27.1	30.5	30	35
	E(C,T)L06	LO	1368	4.5	6.0	26.0	29.4	15.4	20.5	32.5	36.8	35	40
	E(C,T)L08	LO	1368	6.0	8.0	33.2	37.7	20.8	27.3	41.6	47.2	45	50
	E(C,T)L10	LO	1368	7.2	9.6	39.0	44.4	25.9	34.1	48.8	55.5	50	60
	E(C,T)L15	LO	1368	7.2/ 3.6	9.6/ 4.8	39/ 17.3	44.4/ 20	38.6	51.2	48.8/ 21.6	55.5/ 25	50/ 25	60/ 25
	E(C,T)L20	LO	1368	7.2/ 7.2	9.6/ 9.6	39/ 34.6	44.4/ 40	51.2	85.3	48.8/ 43.3	55.5/ 50	50/ 45	60/ 50
	E(C,T)L25	LO	1368	7.2/ 7.2/ 3.6	9.6/ 9.6/ 4.8	39/ 34.6/ 17.3	44.4/ 40/ 20	64.2	95.6	48.8/ 43.3/ 21.6	55.5/ 50/ 25	50/ 45/ 25	60/ 50/ 25

LAM SERIES STANDARD AIR HANDLER CHASSIS NOMENCLATURE

LAM	NOM. TON.	METERING DEVICE	OPTION CODE
	MBTUH	G	-000
240V PSC MULTI-POSITION AIR HANDLER	24 38 25 42 26 43 30 48 31 49 32 60 36 61 37 62	**A1 REFRIGERANTS - R410A + R22** **4** = R410A (TXV NON-BLEED AC/HP) **6** = R410A (TXV 20% BLEED AC/HP) **G** = R410A (FLOWRATOR) **X** = R22 (TXV NON-BLEED AC/HP) **B** = R22 (TXV 20% BLEED AC/HP) **F** = R22 (FLOWRATOR) **A2L REFRIGERANTS - R454B + R32** **J** = R454B (TXV NON-BLEED AC/HP) **K** = R454B (TXV 20% BLEED AC/HP) **Z** = R454B/R32 CONFIGURABLE (Shipped w/ R454B PISTON) **D** = R32 (TXV NON-BLEED AC/HP) **M** = R32 (PISTON) **N** = R454B (PISTON)	CUSTOM OPTIONS

LAM HIGH-EFFICIENCY HEATING/COOLING PERFORMANCE & ELECTRICAL DATA

MODEL	ELECTRIC HEAT			PERFORMANCE DATA						ELECTRICAL DATA			
	ELECTRIC HEAT KIT MODEL	MIN. MOTOR SPEED TAP REQUIRED F/ HEAT KIT	MIN. CFM REQUIRED F/ HEAT KIT	HEATING		HEAT KIT		HEATING CAPACITY		MIN. CIRCUIT AMPACITY		MAX. BREAKER OR FUSE SIZE	
				KW		A		MBTUH		MCA			
				208V	240V	208V	240V	208V	240V	208V	240V	208V	240V
LAM 24B*	N(C,T)S00	-	-	0.0	0.0	2.2	2.2	0.0	0.0	2.8	2.8	15	15
	N(C,T)S03	LOW	735	2.3	3.0	13.0	14.7	7.8	10.2	16.3	18.4	20	20
	N(C,T)S05	LOW	735	3.6	4.8	19.5	22.2	12.3	16.4	24.4	27.8	25	30
	N(C,T)S06	LOW	735	4.5	6.0	23.8	27.2	15.4	20.5	29.8	34	30	35
	N(C,T)S08	LOW	735	6.0	8.0	31.0	35.5	20.5	27.3	38.8	44.4	40	45
	N(C,T)S10	MED	750	7.2	9.6	36.8	42.2	24.6	32.8	46	52.8	50	60

In keeping with its commitment to continuous improvement. Aspen Manufacturing reserves the right to make changes without notice and incurring obligation. To stay up-to-date with this product and Aspen's trusted line of coils, air handlers, and more, go to our website.

BLOWER DATA

MODEL	240V PSC MOTOR			CFM VS EXTERNAL STATIC (WET 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
LAM SERIES STANDARD													
LAM 24/25	LOW	1/5	1.8	835	800	790	750	695	-	-	-	-	-
	HIGH	1/5	1.8	915	880	875	825	770	-	-	-	-	-
LAM 26/30/31/32/ 36/37/38	LOW	1/3	2.6	1130	1100	1050	1000	960	-	-	-	-	
	HIGH	1/3	2.6	1410	1350	1280	1200	1160	-	-	-	-	-
LAM 42/43/48/49/ 60/61/62	LOW	3/4	4.4	1520	1500	1485	1460	1440	-	-	-	-	-
	MID	3/4	4.4	1700	1675	1640	1620	1575	-	-	-	-	-
	HIGH	3/4	4.4	2060	2020	1980	1935	1885	-	-	-	-	-
LAM SERIES HIGH-EFFICIENCY													
LAM24B*	LOW	1/3	2.2	935	890	840	785	735	650	580	385	-	-
	MID	1/3	2.2	965	915	865	810	750	690	610	390	-	-
	HIGH	1/3	2.2	975	925	875	825	770	705	545	435	-	-

LAM SERIES HIGH-EFFICIENCY AIR HANDLER CHASSIS NOMENCLATURE

LAM	NOM. TON.	COIL SIZE	METERING DEVICE	OPTION CODE
	MBTUH	B	G	-000
240V PSC MULTI-POSITION AIR HANDLER	**24** **38** **25** **42** **25** **43** **30** **48** **31** **49** **32** **60** **36** **61** **37** **62**	**B** = SLAB SIZE, DEPTH, ROWS	**A1 REFRIGERANTS - R410A + R22** **4** = R410A (TXV NON-BLEED AC/HP) **G** = R410A (FLOWRATOR) **X** = R22 (TXV NON-BLEED AC/HP) **B** = R22 (TXV 20% BLEED AC/HP) **F** = R22 (FLOWRATOR) **A2L REFRIGERANTS - R454B + R32** **J** = R454B (TXV NON-BLEED AC/HP) **K** = R454B (TXV 20% BLEED AC/HP) **Z** = R454B/R32 CONFIGURABLE (Shipped w/ R454B PISTON) **D** = R32 (TXV NON-BLEED AC/HP) **M** = R32 (PISTON) **N** = R454B (PISTON)	CUSTOM OPTIONS

ELECTRIC HEAT KIT NOMENCLATURE

LAM SERIES STANDARD

HEAT KIT SERIES	POWER CONNECTION	CABINET SIZE & NOM. TON.	HEAT STRIP
E	C	S/L	03
ELECTRIC HEAT	**C** = CIRCUIT BREAKER **T** = TERMINAL BLOCK	**S** = 24-38 **L** = 42-62	**00** = 0 KW **03** = 3 KW **05** = 5 KW **06** = 6 KW **08** = 8 KW **10** = 10 KW **15** = 15 KW **20** = 20 KW **25** = 25 KW

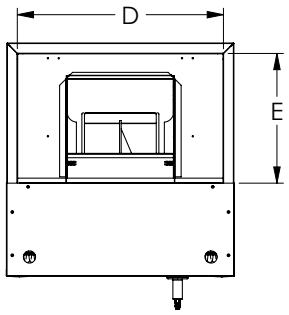
LAM SERIES HIGH-EFFICIENCY

N	C	S	03
ELECTRIC HEAT	**C** = CIRCUIT BREAKER **T** = TERMINAL BLOCK	**S** = 24(B)	**00** = 0 KW **03** = 3 KW **06** = 6 KW **10** = 10 KW **05** = 5 KW **08** = 8 KW

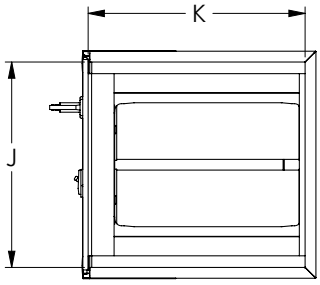
LAM DIMENSIONS (In.)[mm.] - FIGURE 1												
MODEL	A	B	C	D	E	F	G	J	K	FILTER	SHIPPING INFO	
											WEIGHT	QTY
LAM SERIES STANDARD												
LAM 24/25	21 [533]	40 [1016]	20-1/2 [521]	18-3/4 [476]	12 [305]	8-1/4 [210]	12-1/4 [311]	18-1/2 [470]	18-1/2 [470]	16X20	99	4
LAM 30/32	21 [533]	49-1/4 [1251]	20-1/2 [521]	18-3/4 [476]	12 [305]	8-1/4 [210]	14-1/4 [362]	18-1/2 [470]	18-1/2 [470]	16X20	118	4
LAM 26/36/38	21 [533]	49-1/4 [1251]	20-1/2 [521]	18-3/4 [476]	12 [305]	10-1/4 [260]	16-1/4 [413]	18-1/2 [470]	18-1/2 [470]	16X20	118	4
LAM 31/37	21 [533]	49-1/4 [1251]	20-1/2 [521]	18-3/4 [476]	12 [305]	12-1/4 [311]	18-1/4 [464]	18-1/2 [470]	18-1/2 [470]	16X20	147	4
LAM 42	24-1/2 [622]	57 [1448]	20-1/2 [521]	22-1/4 [565]	14-3/4 [375]	11 [279]	16 [406]	22 [559]	18-1/2 [470]	20X20	153	4
LAM 48/62	24-1/2 [622]	57 [1448]	20-1/2 [521]	22-1/4 [565]	14-3/4 [375]	13 [330]	18 [457]	22 [559]	18-1/2 [470]	20X20	180	4
LAM 43/49/60	24-1/2 [622]	57 [1448]	20-1/2 [521]	22-1/4 [565]	14-3/4 [375]	13 [330]	18 [457]	22 [559]	18-1/2 [470]	20X20	180	4
LAM 61	24-1/2 [622]	57 [1448]	20-1/2 [521]	22-1/4 [565]	14-3/4 [375]	15 [381]	20 [508]	22 [559]	18-1/2 [470]	20X20	200	4
LAM SERIES HIGH-EFFICIENCY												
LAM24B*	14-1/2 [368]	40 [1016]	21-1/2 [546]	12-1/2 [318]	12 [305]	9 [229]	5 [127]	12-1/2 [218]	20 [508]	12X20	92	6

FIGURE 1 - STANDARD + HIGH-EFFICIENCY

TOP VIEW

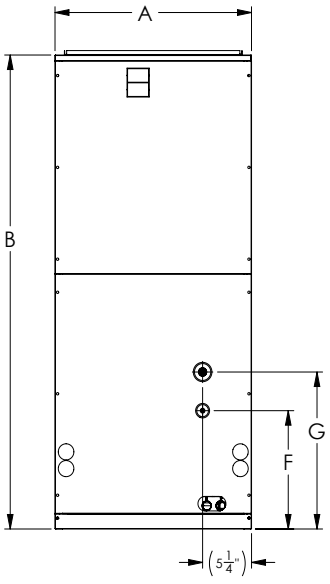


BOTTOM OPENING VIEW

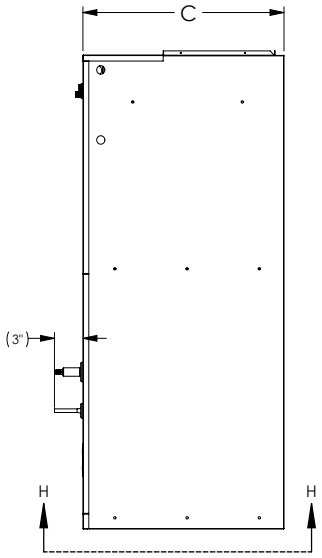


VIEW H-H

FRONT VIEW



SIDE VIEW



SUCTION LINE:
1.5T to 3.0T = 3/4”
3.5T to 5.0T = 7/8”
LIQUID LINE: 3/8”
DRAIN PORT THREAD:
3/4” NPT (FEMALE)