

ABM SERIES

MULTI-POSITION HYDRONIC 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.

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 with knockout for duct return. Unit ships with disposable filter.

MODULAR HYDRONIC HEAT KITS

Air Handlers are available with either factory-installed circuit breakers or terminal blocks. Hydronic Coils come in 2, 3 and 4 row with the options of pump or no pump configurations. Freeze stat is standard, wired into circulating pump control circuit. Controls are accessible from the front for easy service. Electrical connections can be made from the top or left. Disconnect protrudes through the front panel for easy access. Fan time delay relay standard for increased efficiency. Heat kits are available with or without circulating pump and check valve. Units are provided with auxiliary relay for remote pump. Schrader ports are standard on water-out manifold, hose bib available as an option.

ELECTRONIC CONTROL BOARD

An electronic board controls the functioning of the system reducing moving parts. The board provides for various hot water supply source connections and the blower time delay to maximize heat/cool extraction. As an enhanced feature the pump circulates hot water every 6 hours to prevent water stagnation.

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 GLN drain pan holds minimal condensate while eliminating the possibility of corrosion. Drain pan is UV safe. All drain connections are 3/4" FPT. Access door allows for coil cleaning.

WARRANTY Five-year limited parts warranty.

OPTIONS See options menu.



**WANT MORE INFORMATION ON ASPEN'S
ABM 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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HEATING/COOLING PERFORMANCE & ELECTRICAL DATA										
MODEL	PERFORMANCE DATA							ELECTRICAL DATA		
	NOM. COOL. (BTU)	HYDRONIC HEAT KIT	# OF ROWS	COIL P.D.	HEATING CAPACITY BTU/HR STANDARD PUMP @ 3.5 GPM NOM. AIRFLOW				MIN. CIRCUIT AMPACITY (MCA2)	MAX. BREAKER OR FUSE SIZE (MEU2)
					ENTERING WATER TEMP.					
					120°	140°	160°	180°		
ABM 18/19	18,000	W*2SP	2	2.7	17770	24900	32250	39600	4.1	15
		W*3SP	3	2.1	21600	30500	39450	48400	4.1	
ABM 23	24,000	W*2SP	2	2.7	20200	28500	36950	45400	4.1	
		W*3SP	3	2.1	25000	35300	45800	56300	4.1	
ABM 24/25		W*2SP	2	2.7	20200	28500	36950	45400	4.1	
		W*3SP	3	2.1	25000	35300	45800	56300	4.1	
ABM 30/31	30,000	W*2SP	2	2.5	22100	31300	40645	49990	7.9	
		W*3SP	3	1.9	27700	39100	50750	62400	7.9	
		W*4SP	4	1.1	31000	43900	57000	70100	7.9	
ABM 35	36,000	W*2MP	2	2.5	27040	38215	49610	61005	7.9	
		W*3MP	3	1.9	33185	46900	59540	72180	7.9	
		W*4MP	4	1.1	38750	54805	69815	84820	7.9	
ABM 36/37		W*2SP	2	2.5	23700	33500	43550	53600	7.9	
		W*3SP	3	1.9	29800	42100	54700	67300	7.9	
		W*4SP	4	1.1	33500	47400	61600	75800	7.9	
ABM 42/43	42,000	W*2LP	2	2.5	30200	42600	55300	68000	12.5	
		W*3LP	3	1.9	36300	51400	65000	78600	12.5	
		W*4LP	4	1.1	43600	61600	77250	92900	12.5	
ABM 48/49	48,000	W*2LP	2	2.1	31700	44800	58100	71400	12.5	
		W*3LP	3	1.6	38200	54000	67300	80600	12.5	
		W*4LP	4	0.9	45900	64900	81450	98000	12.5	
ABM 47/59	48,000/ 60,000	W*3XP	3	1.3	38195	54020	65095	76170	12.5	
		W*4XP	4	0.8	48200	68125	83380	98640	12.5	
ABM 60/61/62	60,000	W*2LP	2	1.7	32900	46600	60500	74400	12.5	
		W*3LP	3	1.3	39700	56200	70100	84000	12.5	
		W*4LP	4	0.8	47800	67600	84900	102200	12.5	
ABM 18/19	18,000	W*2S8	2	3.9	18700	26400	34150	41900	4.1	15
		W*3S8	3	2.9	22900	32300	41750	51200	4.1	
ABM 23	24,000	W*2S8	2	3.9	22600	31600	40550	49500	4.1	
		W*3S8	3	2.9	26900	38000	49150	60300	4.1	
ABM 24/25		W*2S8	2	3.9	22600	31600	40550	49500	4.1	
		W*3S8	3	2.9	26900	38000	49150	60300	4.1	

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HEATING/COOLING PERFORMANCE & ELECTRICAL DATA - CONTINUED										
MODEL	PERFORMANCE DATA							ELECTRICAL DATA		
	NOM. COOL. (BTU)	HYDRONIC HEAT KIT	ROWS	COIL P.D.	HEATING CAPACITY BTU/HR HIGH PRESSURE DROP PUMP @ 5 GPM NOM. AIRFLOW				MIN. CIRCUIT AMPACITY (MCA2)	MAX. BREAKER OR FUSE SIZE (MEU2)
					5 GPM	ENTERING WATER TEMP.				
				120°		140°	160°	180°		
ABM 30/31	30,000	W*2S8	2	3.5	23900	33800	43800	53800	7.9	15
		W*3S8	3	2.6	30100	42500	55100	67700		
		W*4S8	4	1.5	34000	48000	62300	76600		
ABM 35	36,000	W*2M8	2	3.5	29625	41875	54295	66715		
		W*3M8	3	2.6	36870	52095	65800	79505		
		W*4M8	4	1.5	43535	61545	78050	94560		
ABM 36/37		W*2S8	2	3.5	25800	36500	47350	58200		
		W*3S8	3	2.6	32800	46300	60000	73700		
		W*4S8	4	1.5	37200	52600	68200	83800		
ABM 42/43	42,000	W*2L8	2	3.5	33200	46800	60650	74500	12.5	25
		W*3L8	3	2.6	40500	57300	70850	84400		
		W*4L8	4	1.5	49000	69300	86450	103600		
ABM 48/49	48,000	W*2L8	2	3	34900	49300	63900	78500		
		W*3L8	3	2.2	42750	60450	74825	89200		
		W*4L8	4	1.3	52000	73500	91725	109950		
ABM 47/59	48,000/ 60,000	W*3X8	3	1.9	43295	61300	73190	85075		
		W*4X8	4	1.1	55360	78230	95070	111900		
ABM 60/61/62	60,000	W*2L8	2	2.5	36600	51800	67150	82500		
		W*3L8	3	1.9	45000	63600	78800	94000		
		W*4L8	4	1.1	55000	77700	97000	116300		

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BLOWER DATA									
MODEL	PSC MOTOR				CFM VS. EXTERNAL STATIC (DRY COIL)*				
	SPEED	HP	AMPS	VOLT	0.1	0.2	0.3	0.4	0.5
ABM 18/19/24/25	LOW	1/5	2.8	120	780	740	700	645	585
	HIGH	1/5	2.8		850	800	745	685	620
ABM 23	LOW	1/5	2.8		825	780	735	675	630
	HIGH	1/5	2.8		865	815	780	705	640
ABM 30/31/36/37	LOW	1/3	5.8		925	910	850	825	800
	MID	1/3	5.8		1180	1155	1115	1060	1000
	HIGH	1/3	5.8		1330	1270	1205	1140	1070
ABM 35	LOW	1/3	5.8		995	980	750	915	885
	MID	1/3	5.8		1140	1085	1045	1000	950
	HIGH	1/3	5.8		1220	1165	1130	1060	1000
ABM 42/43/48/ 49/60/61/62	LOW	3/4	9.5		1360	1340	1310	1280	1230
	MID	3/4	9.5		1530	1470	1420	1360	1310
	HIGH	3/4	9.5		1730	1670	1600	1540	1480
ABM 47/59	LOW	3/4	9.5		1350	1315	1300	1245	1205
	MID	3/4	9.5	1500	1450	1400	1350	1315	
	HIGH	3/4	9.5	1670	1615	1560	1515	1450	

*Dry Coil with filter in place

AIR HANDLER CHASSIS NOMENCLATURE			
ABM	NOM. TON.	METERING DEVICE	OPTION CODE
	18	F	-001
120V PSC MOTOR MULTI-POSITION HYDRONIC AIR HANDLER	18 = 18,000 24 = 24,000 30 = 30,000 36 = 36,000 42 = 42,000 48 = 48,000 60 = 60,000 (MBTUH)	A1 4 = R410A (TXV NON-BLEED A/C or H/P) B = R22 (TXV 20% BLEED A/C or H/P) X = R22 (TXV NON-BLEED A/C or H/P) F = R22 (PISTON) G = R410A (PISTON)	OPTION CODE
		A2L 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)	

HYDRONIC HEAT NOMENCLATURE				
HEAT KIT SERIES	POWER CONNECTION	ROWS	CABINET SIZE & NOM. TON.	PUMP TYPE
W	C	2	S	P
WATER HEAT (HYDRONIC)	C = CIRCUIT BREAKER T = TERMINAL BLOCK	2 = 2 ROWS 3 = 3 ROWS 4 = 4 ROWS	S = ABM18/19/ 23/24/25/30 3136/37 M = ABM35 L = ABM42/43/ 48/49/60/ 61/62 X = ABM47/59	L = No Pump P = Taco 006 Pump (factory installed) 8 = Taco 008 Pump high head (factory installed) R = Taco 009 Pump high head (to be mounted external to all units except for multi-position units)

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ABM DIMENSIONS (In.) - FIGURE 1

MODEL	A	B	C	D	E	F	G	J	K	FILTER	PISTON	WEIGHT	SKID QTY
ABM 18+W*	21 [533]	49-1/4 [1251]	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	0.055	99	4
ABM 19/24/25+W*	21 [533]	49-1/4 [1251]	20-1/2 [521]	18-3/4 [476]	12 [305]	8-1/4 [209]	12-1/4 [311]	18-1/2 [470]	18-1/2 [470]	16X20	0.059	100	
ABM 30+W*	21 [533]	49-1/4 [1251]	20-1/2 [521]	18-3/4 [476]	12 [305]	8-1/4 [209]	14-1/4 [362]	18-1/2 [470]	18-1/2 [470]	16X20	0.068	118	
ABM 36+W*	21 [533]	49-1/4 [1251]	20-1/2 [521]	18-3/4 [476]	12 [305]	10-1/4 [260]	16-1/4 [412]	18-1/2 [470]	18-1/2 [470]	16X20	0.068	118	
ABM 31/37+W*	21 [533]	49-1/4 [1251]	20-1/2 [521]	18-3/4 [476]	12 [305]	10-1/4 [260]	16-1/4 [412]	18-1/2 [470]	18-1/2 [470]	16X20	0.074	147	
ABM 42+W*	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	0.080	153	
ABM 48+W*	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	0.084	180	
ABM 43/49/60/62+W*	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	0.084	180	
ABM 61+W*	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	0.092	200	
ABM 23+W*	24-1/2 [622]	40 [1016]	20-1/2 [521]	22-1/4 [565]	16 [406]	6-3/4 [171]	10-3/4 [273]	18-1/2 [470]	18-1/2 [470]	16X20	0.059	100	
ABM 35+W*	21 [533]	42 [1067]	23 [584]	18 [457]	19 [483]	8-3/4 [222]	12-3/4 [324]	18 [457]	20 [533]	20X20	0.068	170	
ABM 47/59+W*	21 [533]	48 [1219]	28 [711]	18 [457]	24 [610]	11-3/4 [298]	15-3/4 [400]	18 [457]	25 [660]	20X25	0.084	200	

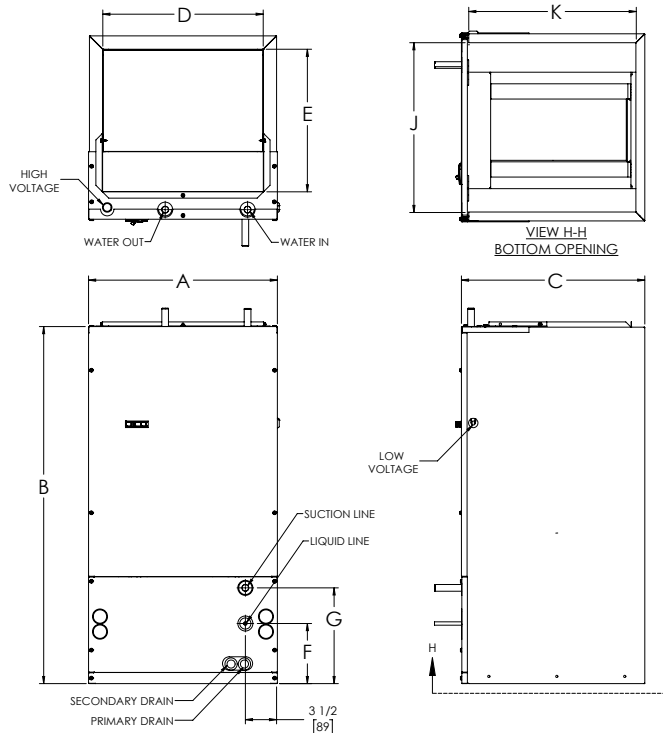
FIGURE 1

SUCTION LINE:

1.5T to 3.0T = 3/4"

3.5T to 5.0T = 7/8"

LIQUID LINE: 3/8"



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