



PRODUCT DIMENSIONS & SPECIFICATIONS

ABM SERIES MULTI-POSITION HYDRONIC AIR HANDLERS

STANDARD FEATURES

APPLICATION VERSATILITY

Upflow or horizontal right as shipped (field-convertible for downflow or horizontal left applications). Can be AHRI matched with most brands of air conditioners or heat pumps. ETL listed for use with either R22 or R410a when a proper metering device is used.

CABINET

Sturdy, galvanized steel cabinet with painted front panels. Cabinet fully insulated with 1/2" micro mat non-hygroscopic insulation to prevent sweating and mold growth, to encapsulate glass fibers, and to provide excellent R-value. Stick pins ensure insulation remains in place. Units ship with disposable filter in filter rack.

MODULAR HEAT KITS

Heat kits available with either circuit breakers or terminal blocks. Available in 2, 3 & 4 row. Modules are easily installed in the field using molex plugs or can be ordered factory-installed. Freeze stat is 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 does not protrude through the wall panel. Fan time delay relay standard for increased efficiency. Totally lead free constructed coil. Suitable for potable applications.

BLOWER

Direct drive multi-speed blowers circulate air quietly and efficiently. Multiple motor speeds allow for precise air volume selection. Motor speeds can be easily selected via motor terminals. 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 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 coil freeze during off cycle.

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.



Representative image only. Some models may vary in appearance. Due to continuous product improvement, specifications are subject to change without notice.



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* For complete warranty details visit www.aspenmfg.com.

HEATING AND COOLING PERFORMANCE AND ELECTRICAL DATA

UNIT MODEL	PERFORMANCE DATA								ELECTRICAL DATA	
	HYDRONIC HEAT KIT MODEL	NOMINAL COOLING	HEATING COIL		Hydronic Coil Delta P.	HEATING AT 3.5 GPM CAPACITY BTU/HR at 3.5 GPM			MIN.CIR. AMPACITY 120 volt	MAX FUSE OR CIRCUIT BREAKER
			ROW	SIZE		ENTERING WATER TEMP				
					Ft. Water	120°	140°	180°		
ABM 18, 19	W(C,T)2S(P,L)	1.5	2	18"x12"	2.8	17700	24900	39600	4.1	15
	W(C,T)3S(P,L)		3	18"x12"	2.1	21600	30500	48400		
ABM 24, 25	W(C,T)2S(P,L)	2	2	18"x12"	2.8	20200	28500	45400	4.1	15
	W(C,T)3S(P,L)		3	18"x12"	2.1	25000	35300	56300		
ABM 30, 31	W(C,T)2S(P,L)	2.5	2	18"x12"	2.8	22100	31300	49900	7.4	15
	W(C,T)3S(P,L)		3	18"x12"	2.1	27700	39100	62400		
	W(C,T)4S(P,L)		4	18"x12"	1.1	31000	43900	70100000		
ABM 36, 37	W(C,T)2S(P,L)	3	2	18"x12"	2.8	23700	33500	53600	7.4	15
	W(C,T)3S(P,L)		3	18"x12"	2.1	29800	42100	67300		
	W(C,T)4S(P,L)		4	18"x12"	1.1	33500	47400	75800		
ABM 42, 43	W(C,T)2L(P,L)	3.5	2	22"x14.5"	3.6	30200	42600	68000	12.5	25
	W(C,T)3L(P,L)		3	22"x14.5"	1.7	36300	51400	76600		
	W(C,T)4L(P,L)		4	22"x14.5"	1.1	43600	61600	92900		
ABM 48, 49	W(C,T)2L(P,L)	4	2	22"x14.5"	3.6	31700	44800	71400	12.5	25
	W(C,T)3L(P,L)		3	22"x14.5"	1.7	38200	54000	80600		
	W(C,T)4L(P,L)		4	22"x14.5"	1.1	45900	64900	98000		
ABM 60, 61	W(C,T)2L(P,L)	5	2	22"x14.5"	3.6	32900	46600	74400	12.5	25
	W(C,T)3L(P,L)		3	22"x14.5"	1.7	39700	56200	84000		
	W(C,T)4L(P,L)		4	22"x14.5"	1.1	47800	67600	102200		

UNIT MODEL	PERFORMANCE DATA								ELECTRICAL DATA	
	HYDRONIC HEAT KIT MODEL	NOMINAL COOLING	HEATING COIL		Hydronic Coil Delta P.	HEATING AT 5.0 GPM CAPACITY BTU/HR at 5.0 GPM			MIN.CIR. AMPACITY 120 volt	MAX FUSE OR CIRCUIT BREAKER
			ROW	SIZE		ENTERING WATER TEMP				
					Ft. Water	120°	140°	180°		
ABM 18/19/24/25	W(C,T)2S(P,L)	Low	2	18"x12"	5.6	18700	26400	41900	4.1	15
	W(C,T)2S(P,L)	High	2	18"x12"	5.6	21600	30500	48500		
	W(C,T)3S(P,L)	Low	3	18"x12"	4.2	22900	32300	51200		
	W(C,T)3S(P,L)	High	3	18"x12"	4.2	26900	38000	60300		
ABM 30/31/36/37	W(C,T)2S(P,L)	Low	2	18"x12"	5.6	23900	33800	53800	7.4	15
	W(C,T)2S(P,L)	High	2	18"x12"	5.6	25800	36500	58200		
	W(C,T)3S(P,L)	Low	3	18"x12"	4.2	30100	42500	67700		
	W(C,T)3S(P,L)	High	3	18"x12"	4.2	32800	46300	73700		
	W(C,T)4S(P,L)	Low	4	18"x12"	2.2	34000	48000	76600		
	W(C,T)4S(P,L)	High	4	18"x12"	2.2	37200	52600	83800		
ABM 42/43/48/49/60/61	W(C,T)2L(P,L)	Low	2	22"x14.5"	5.6	33200	46800	74500	12.5	25
	W(C,T)2L(P,L)	High	2	22"x14.5"	5.6	36600	51800	82500		
	W(C,T)3L(P,L)	Low	3	22"x14.5"	3.4	40500	57300	84400		
	W(C,T)3L(P,L)	High	3	22"x14.5"	3.4	45000	63600	94000		
	W(C,T)4L(P,L)	Low	4	22"x14.5"	2.2	49000	69300	103600		
	W(C,T)4L(P,L)	High	4	22"x14.5"	2.2	55000	77700	116300		

HYDRONIC HEAT KIT NOMENCLATURE

W	C	2	S	P
Water heat (hydronic)	Interruption C = Circuit Breaker T = Terminal Block	2- 2 row hydronic 3- 3 row hydronic 4- 4 row hydronic 0 - no heat	S= 18-37, coil size- 18 x 12 L= 42-61, coil size- 22 x 14.5	P= 1/40 hp pump 8 = 1/25 hp pump R = 1/8 hp pump L= less pump

BLOWER DATA

MODEL	MOTOR SPEED	MOTOR HP	MOTOR AMPS	MOTOR VOLTAGE	CFM V. EXTERNAL STATIC*				
					0.10	0.20	0.30	0.40	0.50
ABM18/19/24/25	LOW	1/5	2.8	120	780	740	700	645	585
	HIGH				850	800	745	685	620
ABM 30/31/36/37	LOW	1/3	5.4		1000	980	920	870	800
	HIGH				1210	1190	1160	1130	1070
ABM 42/43/48/49/60/61	LOW	3/4	9.5		1360	1340	1310	1280	1230
	MED				1530	1470	1420	1360	1310
	HIGH				1730	1670	1600	1540	1480

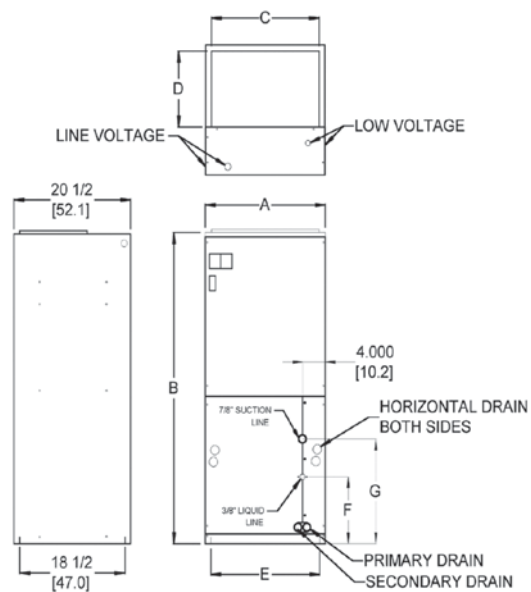
* Dry coil with filter in place

AIR HANDLER CHASSIS NOMENCLATURE

ABM	18	F	-001
ABM = 120V PSC Motor Multi-Position Hydronic Air Handler	Nominal tonnage (MBTUH)	Metering Device 4 = non-bleed A/C or H/P R410 TXV B = 20% bleed A/C or H/P R22 TXV F = F-22 Flo-rater G = R410a Flo-rater X = non-bleed A/C or H/P R22 TXV	Option Code

DIMENSIONS AND SPECIFICATIONS

MODEL	A"	B"	C"	D"	E"	F"	G"	FILTER SIZE	PISTON SIZE	SHIP WEIGHT (LBS)	SKID QTY
ABM18/19+W*	21 [53]	49 1/4 [125]	18-3/4 [48]	12 [30]	18-1/2 [47]	7-1/4 [18]	10-1/4 [26]	16X20	0.055	99	4
ABM24/25+W*	21 [53]	49 1/4 [125]	18-3/4 [48]	12 [30]	18-1/2 [47]	8-1/4 [21]	12-1/4 [31]	16X20	0.059	100	4
ABM30/31+W*	21 [53]	49 1/4 [125]	18-3/4 [48]	12 [30]	18-1/2 [47]	8-1/4 [21]	14-1/4 [36]	16X20	0.068	118	4
ABM36/37+W*	21 [53]	49 1/4 [125]	18-3/4 [48]	12 [30]	18-1/2 [47]	10-1/4 [26]	16-1/4 [41]	16X20	0.074	147	4
ABM42/43+W*	24-1/2 [62]	57 [145]	22-1/4 [57]	14-3/4 [37]	22 [56]	11 [28]	16 [41]	20X20	0.080	153	4
ABM48/49+W*	24-1/2 [62]	57 [145]	22-1/4 [57]	14-3/4 [37]	22 [56]	13 [33]	18 [46]	20X20	0.084	180	4
ABM60/61+W*	24-1/2 [62]	57 [145]	22-1/4 [57]	14-3/4 [37]	22 [56]	15 [38]	20 [51]	20X20	0.092	200	4



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