ABM SERIES HYDRONIC HEAT AIR HANDLER

MULTI-POSITION



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 matched with most brands of air conditioners or heat pumps.

- A2L réfrigerants 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.
- ETL listed for R22 and R410A. ETL listed for R454B and R32 with Refrigerant Detection System (RDS).

120V PSC HYDRONIC MOTOR

Air Handlers come equipped with a standard 120-volt, multi-speed, single-stage PSC motor.

BLOWER

Direct drive multi-speed blowers circulate air quietly and efficiently. Motor speeds can be easily selected via motor terminals. Swing mounted blowers can be easily removed for service

ELECTRONIC CONTROL BOARD

Electronic circuit board provides 30 sec. ON/OFF blower time delay extracting more heat/ cool from the coil. 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 and coil freezing.

LOW LEAKAGE CABINET

Less than 2% air leakage from cabinet when tested in accordance with ASHRAE standard 193. Sturdy, galvanized steel cabinet with painted front panels. Cabinet fully insulated with 1/2" faced insulation to encapsulate glass fibers, to prevent sweating, and to provide excellent R-value. Stick pins ensure insulation remains in place.

DX COIL

High-efficiency rifled copper tubes and enhanced aluminum fins provide maximum heat transfer. All coils are immersion tested at 500 psi, followed by nitrogen pressurization and factory sealing to ensure optimal system integrity and long-term reliability. Liquid-line Schrader allows pre-installation pressure assurance testing.

Available with either orifice or TXV metering device. Field-installable bolt-on TXVs are also available. Rugged GLP drain pan holds minimal condensate while eliminating the possibility of corrosion. Drain pan is UV safe. All drain connections are 3/4" NPT. Access door allows for coil

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. 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.

WARRANTY Hassle-free five-year limited parts warranty.

OPTIONS Ask your local Aspen Sales Rep for options.

CUSTOMIZATION OPTIONS*

UNIVERSAL A2L REFRIGERANT TECHNOLOGY FOR R32 & R454B SYSTEMS



IDEAL FOR USE WITH BOTH CASED AND UNCASED COILS, PLUS ALL AIR HANDLERS!

Versa Pro coils are easily configurable for use with either R32 or R454B refrigerant with proper metering device. Utilizing universal Refrigerant Detection Systems (RDS) to ensure regulatory compliance.

OTHER POPULAR CUSTOM OPTIONS:

DOWNFLOW KIT OPTIONS: METAL DRAIN PANS

- Refrigerant Detection System (RDS) kit factory-installed.
 - Factory or field-installed TXV available.
 - 16" DWNFLWM-16 • 18" DWNFLWM-18
- DWNFLWP

PLASTIC DRAIN PANS

ABM-SS-AH-011-A













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HEATING/COOLING PERFORMANCE & ELECTRICAL DATA										
			E	ELECTRICAL DATA						
				COIL	HEA	TING CAP		J/HR)	MIN.	
MODEL	NOM. COOLING	HYDRONIC HEAT KIT	# OF ROWS	P.D.	STANDARD PUMP @ 3.5 GPM NOM. AIRFLOW				CIRCUIT AMPACITY	MAX. BREAKER OR FUSE
		MODEL		3.5	EN	ITERING V	/IP.		SIZE	
	BTU			GPM	120°	140°	160°	180°	MCA	
ABM	18.000	W*2S8	2	3.9	18700	26400	34150	41900	6.84	15
18/19	10,000	W*3S8	3	2.9	22900	32300	41750	51200	0.01	.0
ABM	24.000	W*2S8	2	3.9	22600	31600	40550	49500	6.84	15
23/24/25	24,000	W*3S8	3	2.9	26900	38000	49150	60300	0.04	13
	30,000	W*2S8	2	3.5	23900	33800	43800	53800	9.34	15
ABM 30/31		W*3S8	3	2.6	30100	42500	55100	67700		
		W*4S8	4	1.5	34000	48000	62300	76600		
	36,000	W*2M8	2	3.5	29625	41875	54295	66715	9.34	
ABM 35		W*3M8	3	2.6	36870	52095	65800	79505		15
		W*4M8	4	1.5	43535	61545	78050	94560		
		W*2S8	2	3.5	25800	36500	47350	58200		
ABM 36/37		W*3S8	3	2.6	32800	46300	60000	73700		15
00/01		W*4S8	4	1.5	37200	52600	68200	83800		
	42,000	W*2L8	2	3.5	33200	46800	60650	74500		
ABM 42/43		W*3L8	3	2.6	40500	57300	70850	84400	15.22	25
12/10		W*4L8	4	1.5	49000	69300	86450	103600		
ABM		W*3X8	3	1.9	43295	61300	73190	85075	45.00	25
47		W*4X8	4	1.1	55360	78230	95070	111900	15.22	
	48,000	W*2L8	2	3	34900	49300	63900	78500		
ABM 48/49		W*3L8	3	2.2	42750	60450	74825	89200	15.22	25
70/73		W*4L8	4	1.3	52000	73500	91725	109950		
ABM		W*3X8	3	1.9	43295	61300	73190	85075	15.22	25
59		W*4X8	4	1.1	55360	78230	95070	111900		25
	60,000	W*2L8	2	2.5	36600	51800	67150	82500		
ABM 60/61/62		W*3L8	3	1.9	45000	63600	78800	94000	15.22	25
30/01/02		W*4L8	4	1.1	55000	77700	97000	116300		

BLOWER DATA										
MODEL	12	OV PSC MOTO	OR	CFM VS. EXTERNAL STATIC (DRY COIL)						
WODEL	SPEED	HP	AMPS	0.1	0.2	0.3	0.4	0.5		
ABM	LOW	1/5	2.8	780	740	700	645	585		
18/19/24/25	HIGH	1/5	2.8	850	800	745	685	620		
ABM	LOW	1/5	2.8	825	780	735	675	630		
23	HIGH	1/5	2.8	865	815	780	705	640		
4514	LOW	1/3	5.8	925	910	850	825	800		
ABM 30/31/36/37	MID	1/3	5.8	1180	1155	1115	1060	1000		
00/01/00/01	HIGH	1/3	5.8	1330	1270	1205	1140	1070		
4514	LOW	1/3	5.8	995	980	750	915	885		
ABM 35	MID	1/3	5.8	1140	1085	1045	1000	950		
	HIGH	1/3	5.8	1220	1165	1130	1060	1000		
ABM	LOW	3/4	9.5	1360	1340	1310	1280	1230		
42/43/48/	MID	3/4	9.5	1530	1470	1420	1360	1310		
60/61/62	HIGH	3/4	9.5	1730	1670	1600	1540	1480		
ADM	LOW	3/4	9.5	1350	1315	1300	1245	1205		
ABM 47/59	MID	3/4	9.5	1500	1450	1400	1350	1315		
	HIGH	3/4	9.5	1670	1615	1560	1515	1450		

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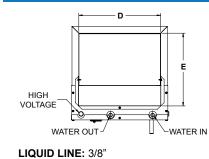


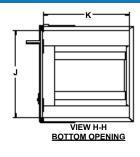


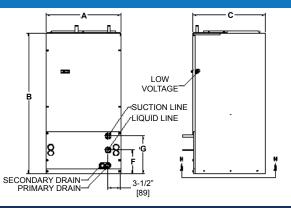
AIR HANDLER CHASSIS NOMENCLATURE (HYDRONIC MULTI-POSITION)									
ADM	NOM. TON.	OPTION CODE							
ABM	MBTUH	MBTUH F							
		A1 REFRIGERANTS - R410A + R22							
120V PSC MOTOR	18 = 18,000 24 = 24,000 30 = 30.000	4 = R410A (TXV NON-BLEED AC/HP)	CUSTOM						
HYDRONIC MULTI-POSITION	36 = 36,000	A2L REFRIGERANTS - R454B + R32	OPTIONS						
AIR HANDLER	42 = 42,000 60 = 60,000	J = R454B (TXV NON-BLEED AC/HP) D = R32 (TXV NON-BLEED AC/HP) Z = R454B or R32 CONFIGURABLE (Shipped w/ R454B Piston) K = R454B (TXV 20% BLEED AC/HP) M = R32 (PISTON) N = R454B (PISTON)	o						

HYDRONIC HEAT NOMENCLATURE									
HEAT KIT	POWER CONNECTION	ROWS	CABINET SIZE & NOM. TONNAGE	PUMP TYPE					
W	С	2	S	P					
HYDRONIC WATER HEAT	C = CIRCUIT BREAKER T = TERMINAL BLOCK	2 = 2 3 = 3 4 = 4	S = ABM18/19/23/24/25/30/31/36/37 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) 					

FIGURE 1







SUCTION LINE:				
 1.5T to 3.0T = 3/4" 	•	3.5T to 5	$= T0.\overline{c}$	7/8

ABM DIMENSIONS (In.)[mm.] - FIGURE 1												
MODEL		В	С	D	Е	F	G		К	FILTER 1" DEPTH	SHIPPING INFO	
	Α	Р	C	ן ע	_	Г	G	J			WEIGHT	SKID QTY
ABM 18+W*	21 [533]	49-1/4 [1251]	20-1/2 [521]	18-3/4 [476]	12 [305]	5-3/4 [146]	9-3/4 [248]	18-1/2 [470]	18-1/2 [470]	16X20	99	4
ABM 19/24/25+W*	21 [533]	49-1/4 [1251]	20-1/2 [521]	18-3/4 [476]	12 [305]	7-3/4 [197]	11-3/4 [298]	18-1/2 [470]	18-1/2 [470]	16X20	100	4
ABM 30+W*	21 [533]	49-1/4 [1251]	20-1/2 [521]	18-3/4 [476]	12 [305]	10-1/2 [267]	14-1/2 [368]	18-1/2 [470]	18-1/2 [470]	16X20	118	4
ABM 36+W*	21 [533]	49-1/4 [1251]	20-1/2 [521]	18-3/4 [476]	12 [305]	12-1/2 [317]	16-1/2 [419]	18-1/2 [470]	18-1/2 [470]	16X20	118	4
ABM 31/37+W*	21 [533]	49-1/4 [1251]	20-1/2 [521]	18-3/4 [476]	12 [305]	14-3/4 [374]	18-3/4 [476]	18-1/2 [470]	18-1/2 [470]	16X20	147	4
ABM 42+W*	24-1/2 [622]	57 [1448]	20-1/2 [521]	22-1/4 [565]	14-3/4 [375]	14-3/4 [374]	18-3/4 [476]	22 [559]	18-1/2 [470]	20X20	153	4
ABM 48+W*	24-1/2 [622]	57 [1448]	20-1/2 [521]	22-1/4 [565]	14-3/4 [375]	16 [406]	20 [508]	22 [559]	18-1/2 [470]	20X20	180	4
ABM 43/49/60/62+W*	24-1/2 [622]	57 [1448]	20-1/2 [521]	22-1/4 [565]	14-3/4 [375]	18 [457]	22 [559]	22 [559]	18-1/2 [470]	20X20	180	4
ABM 61+W*	24-1/2 [622]	57 [1448]	20-1/2 [521]	22-1/4 [565]	14-3/4 [375]	20 [508]	24 [610]	22 [559]	18-1/2 [470]	20X20	200	4
ABM 23+W*	21 [533]	40 [1016]	20-1/2 [521]	18 [457]	16 [406]	7 [178]	11 [279]	18-1/2 [470]	18-1/2 [470]	16X20	100	4
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	170	4
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	200	4

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