

## 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 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.
- 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 cleaning.

#### 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 UNCASD 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:

- Refrigerant Detection System (RDS) kit factory-installed.
- Factory or field-installed TXV available.

#### DOWNFLOW KIT OPTIONS:

##### METAL DRAIN PANS

- 16" DWNFLWM-16
- 18" DWNFLWM-18

##### PLASTIC DRAIN PANS

- DWNFLWP

ABM-SS-AH-011-A



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HEATING/COOLING PERFORMANCE & ELECTRICAL DATA										
MODEL	PERFORMANCE DATA							ELECTRICAL DATA		
	NOM. COOLING	HYDRONIC HEAT KIT MODEL	# OF ROWS	COIL P.D.	HEATING CAPACITY (BTU/HR)				MIN. CIRCUIT AMPACITY	MAX. BREAKER OR FUSE SIZE
					STANDARD PUMP @ 3.5 GPM NOM. AIRFLOW					
				3.5 GPM	ENTERING WATER TEMP.					
BTU				120°	140°	160°	180°	MCA		
ABM 18/19	18,000	W*2S8	2	3.9	18700	26400	34150	41900	6.84	15
		W*3S8	3	2.9	22900	32300	41750	51200		
ABM 23/24/25	24,000	W*2S8	2	3.9	22600	31600	40550	49500	6.84	15
		W*3S8	3	2.9	26900	38000	49150	60300		
ABM 30/31	30,000	W*2S8	2	3.5	23900	33800	43800	53800	9.34	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	9.34	15
		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	9.34	15
		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	15.22	25
		W*3L8	3	2.6	40500	57300	70850	84400		
		W*4L8	4	1.5	49000	69300	86450	103600		
ABM 47	48,000	W*3X8	3	1.9	43295	61300	73190	85075	15.22	25
		W*4X8	4	1.1	55360	78230	95070	111900		
ABM 48/49		W*2L8	2	3	34900	49300	63900	78500	15.22	25
		W*3L8	3	2.2	42750	60450	74825	89200		
		W*4L8	4	1.3	52000	73500	91725	109950		
ABM 59	60,000	W*3X8	3	1.9	43295	61300	73190	85075	15.22	25
		W*4X8	4	1.1	55360	78230	95070	111900		
ABM 60/61/62		W*2L8	2	2.5	36600	51800	67150	82500	15.22	25
		W*3L8	3	1.9	45000	63600	78800	94000		
		W*4L8	4	1.1	55000	77700	97000	116300		

BLOWER DATA								
MODEL	120V PSC MOTOR			CFM VS. EXTERNAL STATIC (DRY COIL)				
	SPEED	HP	AMPS	0.1	0.2	0.3	0.4	0.5
ABM 18/19/24/25	LOW	1/5	2.8	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/ 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

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HYDRONIC HEAT NOMENCLATURE				
HEAT KIT	POWER CONNECTION	ROWS	CABINET SIZE & NOM. TONNAGE	PUMP TYPE
W	C	2	S	P
HYDRONIC WATER HEAT	<b>C</b> = CIRCUIT BREAKER <b>T</b> = TERMINAL BLOCK	<b>2</b> = 2 <b>3</b> = 3 <b>4</b> = 4	<b>S</b> = ABM18/19/23/24/25/30/31/36/37 <b>M</b> = ABM35 <b>L</b> = ABM42/43/48/49/60/61/62 <b>X</b> = ABM47/59	<b>L</b> = No Pump <b>P</b> = Taco 006 Pump (factory-installed) <b>8</b> = Taco 008 Pump High Head (factory-installed) <b>R</b> = Taco 009 Pump High Head (to be mounted external to all units except for multi-position units)

Technical drawings of the 1891 Series Low Voltage Transformer, showing dimensions and labels:

- Top View:** Dimensions D (width) and E (depth). Labels: HIGH VOLTAGE, WATER OUT, WATER IN.
- Side View:** Dimensions J (height) and K (width). Label: VIEW H-H BOTTOM OPENING.
- Front View:** Dimensions A (width), B (height), C (depth), F (height to secondary drain), G (height to primary drain), and 3-1/2" (1891). Labels: LOW VOLTAGE, SUCTION LINE, LIQUID LINE, SECONDARY DRAIN, PRIMARY DRAIN.

**LIQUID LINE: 3/8"**  
**SUCTION LINE:**

- 1.5T to 3.0T = 3/4" • 3.5T to 5.0T = 7/8"

MODEL	A	B	C	D	E	F	G	J	K	FILTER 1" DEPTH	SHIPPING INFO	
											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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