

AFM SERIES

MULTI-POSITION HYDRONIC HEAT

FEATURES, BENEFITS, DIMENSIONS, & SPECIFICATIONS



Unit shown with service panels removed. Representative image only. Some models may vary in appearance. Due to continuous product improvement, specifications are subject to change without notice.

APPLICATION VERSATILITY

This unit is designed for use in upflow, downflow, horizontal left and horizontal right applications. Can be AHRI certified 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.

MOTOR

Constant torque ECM speeds and torques are controlled by software embedded in the motor to maintain constant torque. Motors are pre-programmed at the factory.

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, short, galvanized steel cabinet with painted front panels. Cabinet fully insulated with 1/2" faced 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.

BLOWER

Direct drive blowers circulate air quietly and efficiently. Motor speeds and torques programmed in the motor. Blowers mounted on rails so they 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.

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.

DX COIL

High efficiency rifled aluminum tubes and enhanced aluminum fins provide maximum heat transfer. All coils factory leak tested with two-stage pressure decay and mass spectrometer process then nitrogen pressurized, and factory sealed for maximum reliability. Coil mounted Schrader allows pre-installation pressure testing. Available with either check style flowrater or TXV metering device. Field-installable TXVs are also available. Rugged GLP drain pan holds minimal condensate while eliminating the possibility of corrosion. Drain pans are UV safe. GLP drain pans with bottom primary and secondary drain connections or alternate right-side primary. All connections 3/4" NPT. Access door allows for coil cleaning.



WANT MORE INFORMATION ON ASPEN'S AFM 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. COOLING	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)
					3.5 GPM	ENTERING WATER TEMP.				
				120°		140°	160°	180°		
AFM 18/19	18,000	W*2SP	2	2.7	17770	24900	32250	39600	6.78	15
		W*3SP	3	2.1	21600	30500	39450	48400	6.78	
AFM 23/24/25	24,000	W*2SP	2	2.7	20200	28500	36950	45400	6.78	
		W*3SP	3	2.1	25000	35300	45800	56300	6.78	
AFM 30/31	30,000	W*2SP	2	2.5	22100	31300	40645	49990	9.28	
		W*3SP	3	1.9	27700	39100	50750	62400		
		W*4SP	4	1.1	31000	43900	57000	70100		
AFM 36/37	36,000	W*2SP	2	2.5	23700	33500	43550	53600		
		W*3SP	3	1.9	29800	42100	54700	67300		
		W*4SP	4	1.1	33500	47400	61600	75800		
AFM 35		W*2MP	2	2.5	27040	38215	49610	61005		
		W*3MP	3	1.9	33185	46900	59540	72180		
		W*4MP	4	1.1	38750	54805	69815	84820		
AFM 42/43	42,000	W*2LP	2	2.5	30200	42600	55300	68000	15.16	
		W*3LP	3	1.9	36300	51400	65000	78600		
		W*4LP	4	1.1	43600	61600	77250	92900		
AFM 47	48,000	W*3XP	3	1.3	38195	54020	65095	76170		
		W*4XP	4	0.8	48200	68125	83380	98640		
AFM 48/49		W*2LP	2	2.1	31700	44800	58100	71400		
		W*3LP	3	1.6	38200	54000	67300	80600		
		W*4LP	4	0.9	45900	64900	81450	98000		
AFM 59		60,000	W*3XP	3	1.3	38195	54020	65095		76170
	W*4XP		4	0.8	48200	68125	83380	98640		
AFM 60/61	W*2LP		2	1.7	32900	46600	60500	74400		
	W*3LP		3	1.3	39700	56200	70100	84000		
	W*4LP		4	0.8	47800	67600	84900	102200		

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BLOWER DATA														
MODEL	ECM MOTOR				CFM VS EXTERNAL STATIC (DRY COIL)									
	SPEED TAP	HP	FLA	VOLT	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	
AFM 18/19/ 24/25	T5	1/3	4.8A	120	870	840	810	790	770	740	720	700	660	
	T4	1/3	4.8A		700	670	640	620	590	570	540	510	480	
	T3	1/3	4.8A		610	580	550	530	510	480	440	400	370	
	T2	1/3	4.8A		500	480	460	430	400	370	340	300	260	
	T1	1/3	4.8A		870	840	810	790	770	740	720	700	660	
AFM 23	T5	1/3	4.8A		870	840	810	790	760	730	710	670	640	640
	T4	1/3	4.8A		810	790	760	740	710	670	640	620	590	
	T3	1/3	4.8A		760	730	700	660	630	600	570	550	510	
	T2	1/3	4.8A		710	690	650	620	590	550	530	500	460	
	T1	1/3	4.8A		650	630	590	570	540	510	460	430	390	
AFM 30/31/ 36/37	T5	1/2	6.8A		1090	1060	1040	1010	980	970	930	920	880	880
	T4	1/2	6.8A		1070	1040	1010	980	950	930	920	880	850	
	T3	1/2	6.8A		890	870	830	800	780	750	720	690	650	
	T2	1/2	6.8A		710	670	640	600	580	550	520	490	460	
	T1	1/2	6.8A		550	510	470	440	400	370	340	300	270	
AFM 35	T5	1/2	6.8A		1220	1190	1170	1140	1110	1090	1060	1030	1000	1000
	T4	1/2	6.8A		1140	1110	1090	1060	1030	1000	970	930	900	
	T3	1/2	6.8A		930	900	880	840	810	780	750	710	670	
	T2	1/2	6.8A		810	790	760	730	690	650	620	590	560	
	T1	1/2	6.8A		700	650	620	580	540	510	480	440	400	
AFM 42/43/ 48/60/61	T5	1	11.5A	1810	1800	1760	1720	1690	1670	-	-	-	-	
	T4	1	11.5A	1690	1650	1630	1590	1570	1550	1500	1460	1420		
	T3	1	11.5A	1460	1440	1420	1400	1350	1300	1280	1230	1170		
	T2	1	11.5A	1370	1320	1280	1250	1230	1200	1170	1120	1060		
	T1	1	11.5A	750	700	630	590	550	500	450	400	350		
AFM 47/59	T5	1	11.5A	1920	1880	1850	1810	1780	1740	1700	-	-	-	
	T4	1	11.5A	1810	1780	1740	1700	1670	1630	1590	1550	1500		
	T3	1	11.5A	1530	1480	1440	1400	1350	1300	1250	1200	1140		
	T2	1	11.5A	1290	1260	1210	1150	1100	1040	1000	930	870		
	T1	1	11.5A	930	880	810	740	650	570	520	480	420		

AIR HANDLER CHASSIS NOMENCLATURE (HYDRONIC MULTI-POSITION)			
AFM	NOM. TON.	METERING DEVICE	OPTION CODE
	18	4	-000
120V ECM MOTOR CONSTANT TORQUE HYDRONIC MULTI-POSITION AIR HANDLER	18 = 18,000 24 = 24,000 30 = 30,000 36 = 36,000 42 = 42,000 60 = 60,000 (MBTUH)	A1 - METERING DEVICE 4 = R410A (TXV NON-BLEED A/C or H/P) F = R22 (PISTON) X = R22 (TXV NON-BLEED A/C or H/P) G = R410A (PISTON) B = R22 (TXV 20% BLEED A/C or H/P)	OPTION CODE
		A2L - METERING DEVICE J = R454B (TXV NON-BLEED A/C or H/P) M = R32 (PISTON) K = R454B (TXV 20% BLEED A/C or H/P) N = R454B (PISTON) D = R32 (TXV NON-BLEED A/C or H/P)	

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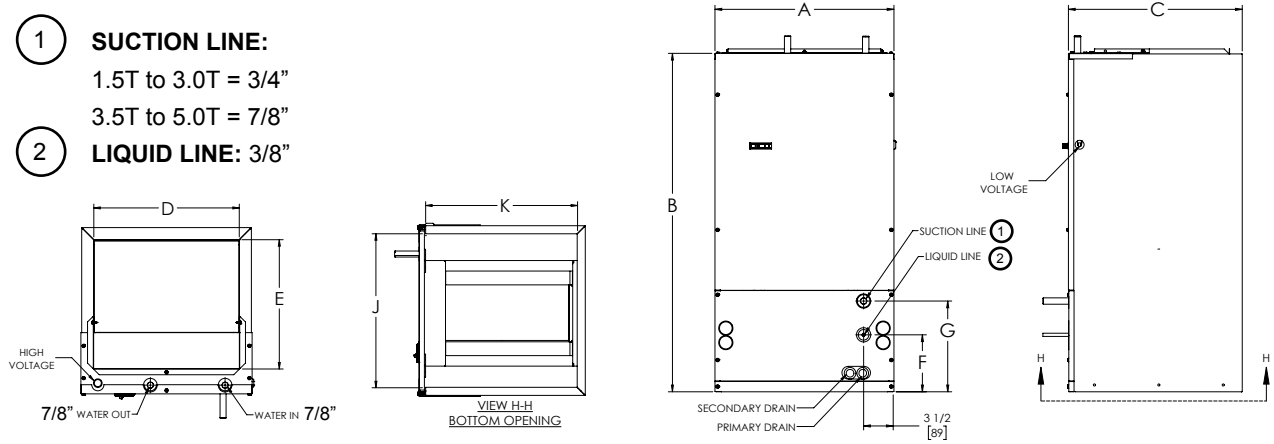


HYDRONIC HEAT NOMENCLATURE				
HEAT KIT SERIES	POWER CONNECTION	ROWS	CABINET SIZE & NOM. TONNAGE	PUMP
W	C	2	S	P
WATER HEAT (HYDRONIC)	C = CIRCUIT BREAKER T = TERMINAL BLOCK	2 = 2 ROWS 3 = 3 ROWS 4 = 4 ROWS	S = AFM18/19/23/24/25/30/31/36/37 M = AFM35 L = AFM42/43/48/49/60/61 X = AFM47/59	L = No Pump P = 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)

AFM DIMENSIONS (In.) - FIGURE 1												
MODEL	A	B	C	D	E	F	G	J	K	FILTER	SHIPPING INFO	
											WEIGHT	SKID QTY
AFM 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
AFM1 9/24/25+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	
AFM 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	
AFM 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	
AFM 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	
AFM 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	
AFM 48+W*	24-1/2 [622]	57 [1448]	20-1/2 [521]	22-1/4 [565]	14-3/4 [375]	16 [406]	20 [533]	22 [559]	18-1/2 [470]	20X20	180	
AFM4 3/49/60+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	
AFM 61+W*	24-1/2 [622]	57 [1448]	20-1/2 [521]	22-1/4 [565]	14-3/4 [375]	20 [533]	24 [610]	22 [559]	18-1/2 [470]	20X20	200	
AFM 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	
AFM 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	
AFM 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	

FIGURE 1

- ① **SUCTION LINE:**
1.5T to 3.0T = 3/4"
3.5T to 5.0T = 7/8"
- ② **LIQUID LINE:** 3/8"



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