



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



For complete warranty details visit [www.AspenMfg.com](http://www.AspenMfg.com)

## Product Features and Specifications

### APPLICATION VERSATILITY

- AHRI certifiable with all brands of A/C and heat pump systems.
- ETL listed for use with both R-22 and R-410A when proper metering device is used.
- Ships upflow or horizontal right (field-convertible for downflow or horizontal left).

### CABINET

- Less than 2% air leakage from cabinet when tested in accordance with ASHRAE standard 193 and installed according to Aspen installation instructions.
- Sturdy, fully insulated galvanized steel cabinet.

### Modular Hydronic Heat Kits

- 2, 3 and 4 row heat kits available with either circuit breakers or terminal blocks.
- Top or left electrical connections.
- Heat kits can be ordered factory-installed or easy Molex plug field installation.
- Heat kits are available with or without bronze circulating pump and check valve suitable for potable water.
- Units are provided with auxiliary relay for remote pump.
- Schrader ports are standard on water-out manifold, hose bib available as an option.
- Freeze stat is wired into circulating pump control circuit.
- Fan time delay relay standard for increased efficiency.

### COIL

- High efficiency rifled copper tubes & enhanced aluminum fins.
- Immersion tested, nitrogen pressurized, and factory sealed for maximum reliability.
- Liquid-line Schrader allows pre-installation pressure testing.
- Available with either orifice or TXV metering devices.
- Rugged, UV safe plastic drain pan holds minimal condensate while eliminating the possibility of corrosion. Bottom or horizontal right primary and secondary drain connections are field convertible to horizontal left.
- All drain connections are 3/4" FPT.

### ELECTRONIC CIRCUIT 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 and to reduce the risk of coil freeze during off cycle. easily removed for service.

### WARRANTY

- Five-year limited parts warranty



# AFL SERIES

## MULTI-POSITION HIGH EFFICIENCY HYDRONIC FURNACE

HEATING AND COOLING PERFORMANCE AND ELECTRICAL DATA										
MODEL	PERFORMANCE DATA							ELECTRICAL DATA		
	NOMINAL COOLING	HYDRONIC HEAT KIT MODEL	ROWS	COIL P.D.	HEATING CAPACITY BTU/HR STANDARD PUMP AT 3.5 GPM NOMINAL AIRFLOW				MINIMUM CIRCUIT AMPACITY (MCA)	MAX BREAKER OR FUSE SIZE
				3.5 GPM	ENTERING WATER TEMP					
					120	140	160	180		
ABM18/19	18,000	W*2SP	2	2.7	17770	24900	32250	39600	4.1	15
		W*3SP	3	2.1	21600	30500	39450	48400		
ABM24/25	24,000	W*2SP	2	2.7	20200	28500	36950	45400	4.1	15
		W*3SP	3	2.1	25000	35300	45800	56300		
ABM30/31	30,000	W*2SP	2	2.5	22100	31300	40645	49990	7.4	15
		W*3SP	3	1.9	27700	39100	50750	62400		
		W*4SP	4	1.1	31000	43900	57000	70100		
ABM36/37	36,000	W*2SP	2	2.5	23700	33500	43550	53600	7.4	15
		W*3SP	3	1.9	29800	42100	54700	67300		
		W*4SP	4	1.1	33500	47400	61600	75800		
ABM42/43	42,000	W*2LP	2	2.5	30200	42600	55300	68000	12.5	25
		W*3LP	3	1.9	36300	51400	65000	78600		
		W*4LP	4	1.1	43600	61600	77250	92900		
ABM48/49	48,000	W*2LP	2	2.1	31700	44800	58100	71400	12.5	25
		W*3LP	3	1.6	38200	54000	67300	80600		
		W*4LP	4	0.9	45900	64900	81450	98000		
ABM60/61/62	60,000	W*2LP	2	1.7	32900	46600	60500	74400	12.5	25
		W*3LP	3	1.3	39700	56200	70100	84000		
		W*4LP	4	0.8	47800	67600	84900	102200		
ABM23	24000	W*2SP	2	2.7	20200	28500	36950	45400	4.1	15
		W*3SP	3	2.1	25000	35300	45800	56300		
ABM35	36000	W*2MP	2	2.5	27040	38215	49610	61005	7.4	15
		W*3MP	3	1.9	33185	46900	59540	72180		
		W*4MP	4	1.1	38750	54805	69815	84820		
ABM47	48000	W*3XP	3	1.3	38195	54020	65095	76170	12.5	25
		W*4XP	4	0.8	48200	68125	83380	98640		
AFM18/19	18,000	W*2SP	2	2.7	17770	24900	32250	39600	6.6	15
		W*3SP	3	2.1	21600	30500	39450	48400		
AFM24/25	24,000	W*2SP	2	2.7	20200	28500	36950	45400	6.6	15
		W*3SP	3	2.1	25000	35300	45800	56300		
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		W*3SP	3	1.9	27700	39100	50750	62400		
		W*4SP	4	1.1	31000	43900	57000	70100		
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		W*3SP	3	1.9	29800	42100	54700	67300		
		W*4SP	4	1.1	33500	47400	61600	75800		
AFM42/43	42,000	W*2LP	2	2.5	30200	42600	55300	68000	14.3	25
		W*3LP	3	1.9	36300	51400	65000	78600		
		W*4LP	4	1.1	43600	61600	77250	92900		
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		W*3MP	3	1.9	33185	46900	59540	72180		
		W*4MP	4	1.1	38750	54805	69815	84820		
AFM47	48000	W*3XP	3	1.3	38195	54020	65095	76170	14.3	25
		W*4XP	4	0.8	48200	68125	83380	98640		

**BLOWER**

- Direct drive multi-speed blowers circulate air quietly and efficiently.
- ABM: Selectable PSC motor speeds for precise air volume selection.
- AFM: Pre-programmed constant torque ECM speeds controlled by motor embedded software.
- Rail mounted blowers can be easily removed for service.

BLOWER DATA									
MODEL	MOTOR SPEED/TAP	MOTOR HP	MOTOR AMPS	MOTOR VOLTAGE	CFMV. EXTERNAL STATIC (DR Y COIL)				
					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
ABM23	LOW	1/3	5.4		825	780	735	675	630
	HIGH				865	815	780	705	640
ABM 30/31/36/37	LOW	1/3	5.4		1000	980	920	870	800
	HIGH				1210	1190	1160	1130	1070
ABM35	LOW	3/4	9.5		1115	1075	1035	980	920
	HIGH				1235	1180	1135	1070	1000
ABM 42/43/48/49/60/61/62	LOW	3/4	9.5		1360	1340	1310	1280	1230
	MED				1530	1470	1420	1360	1310
	HIGH				1730	1670	1600	1540	1480
ABM47	LOW	3/4	9.5		1350	1315	1300	1245	1205
	MED			1500	1450	1400	1350	1315	
	HIGH			1670	1615	1560	1515	1450	
AFM 18/19/24/25	TAP 5	1/3	4.8	120	900	853	797	738	673
	TAP 4				670	646	613	592	553
	TAP 3				500	476	452	421	400
	TAP 2				400	381	360	339	312
	TAP 1				900	853	797	738	673
AFM23	TAP 5	1/5	4.8		895	860	815	770	705
	TAP 4				825	795	770	750	700
	TAP 3				770	735	705	685	665
	TAP 2				705	675	655	615	595
	TAP 1				655	615	605	580	540
AFM 30/31/36/37	TAP 5	1/2	6.8		1150	1087	1030	975	910
	TAP 4				1080	1048	1010	960	895
	TAP 3			900	862	825	796	745	
	TAP 2			700	663	632	600	552	
	TAP 1			500	473	449	421	395	
AFM35	TAP 5	1/2	5.4	1245	1190	1130	1085	1020	
	TAP 4			1170	1130	1085	1045	1000	
	TAP 3			935	910	865	840	805	
	TAP 2			815	785	745	715	685	
	TAP 1			685	655	605	580	520	
AFM 42/43/48/60/61/62	TAP 5	1	10.9	1850	1806	1752	1700	1652	
	TAP 4			1704	1656	1600	1532	1479	
	TAP 3			1494	1461	1426	1400	1364	
	TAP 2			1350	1310	1272	1229	1175	
	TAP 1			676	652	621	600	559	
AFM47	TAP 5	1	10.9	1950	1880	1845	1805	1780	
	TAP 4			1765	1740	1725	1685	1660	
	TAP 3			1500	1480	1450	1415	1385	
	TAP 2			1245	1205	1185	1150	1105	
	TAP 1			1010	900	825	765	705	

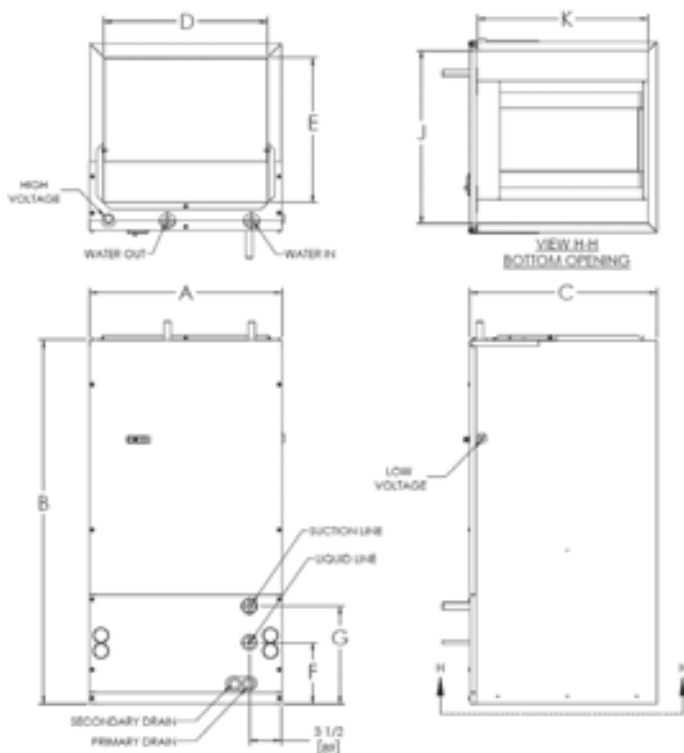
# AFL SERIES

## MULTI-POSITION HIGH EFFICIENCY HYDRONIC FURNACE

DIMENSIONS AND SPECIFICATIONS (In.) - Figure 1

MODEL ABM,AFM	A	B	C	D	E	F	G	J	K	FILTER SIZE	PIS- TON SIZE	SHIP WEIGHT (LBS)	SKID QTY
18+W*	21	49-1/4	20-1/2	18-3/4	12	7-1/4	10-1/4	18-1/2	18-1/2	16X20	0.055	99	4
19/24/25+W*	21	49-1/4	20-1/2	18-3/4	12	8-1/4	12-1/4	18-1/2	18-1/2	16X20	0.059	100	4
30/31+W*	21	49-1/4	20-1/2	18-3/4	12	8-1/4	14-1/4	18-1/2	18-1/2	16X20	0.068	118	4
36+W*	21	49-1/4	20-1/2	18-3/4	12	10-1/4	16-1/4	18-1/2	18-1/2	16X20	0.068	118	4
31/37+W*	21	49-1/4	20-1/2	18-3/4	12	10-1/4	16-1/4	18-1/2	18-1/2	16X20	0.074	147	4
42+W*	24-1/2	57	20-1/2	22-1/4	14-3/4	11	16	22	18-1/2	20X20	0.080	153	4
48+W*	24-1/2	57	20-1/2	22-1/4	14-3/4	13	18	22	18-1/2	20X20	0.084	180	4
43/49/60/62+W*	24-1/2	57	20-1/2	22-1/4	14-3/4	13	18	22	18-1/2	20X20	0.084	180	4
61+W*	24-1/2	57	20-1/2	22-1/4	14-3/4	15	20	22	18-1/2	20X20	0.092	200	4
23+W*	21	40	20-1/2	18	16	6-3/4	10-3/4	18-1/2	18-1/2	16X20	0.059	100	4
35+W*	21	42	23	18	19	8-3/4	12-3/4	18	20	20X20	0.068	170	4
47+W*	21	48	28	18	24	11-3/4	15-3/4	18	25	20X25	0.084	200	4

FIGURE 1



### CHASSIS NOMENCLATURE

#### ABM 18 4 - 000

① ② ③ ④

- ① ABM = 120V PSC Motor Multi-Position Hydronic Air Handler  
AFM = 120V Constant torque ECM Multi-Position Air Handler
- ② Nominal tonnage (MBTUH)
- ③ Metering device  
4 = Non-bleed A/C or H/P R410 TXV  
B = 20% bleed A/C or H/P R22 TXV  
F = R-22 Flowrater  
G = R-410A Flowrater  
X = Non-bleed A/C or H/P R22 TXV

④ Option Code

### HYDRONIC HEAT KIT NOMENCLATURE

#### W C 2 S P

① ② ③ ④ ⑤

- ① W = Water heat (hydronic)
- ② Interruption  
C = Circuit Breaker  
T = Terminal Block
- ③ Row  
2  
3  
4
- ④ S = 18, 19, 23, 24, 25, 30, 31, 36, 37  
M = 35  
L = 42, 43, 48, 49, 60, 61, 62  
X = 47
- ⑤ L = Less Pump and Check Valve  
P = with 006 Standard Pump and Check Valve  
R = with 009 High Pressure Drop Pump and Check Valve  
8 = with 008 High Pressure Drop Pump and Check Valve

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In keeping with its commitment to continuous improvement, Aspen Manufacturing reserves the right to make changes without notice and incurring obligation. ©2023



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