



PRODUCT DIMENSIONS & SPECIFICATIONS

AFM SERIES HIGH EFFICIENCY MULTI-POSITION HYDRONIC HEAT DX COOL AIR HANDLERS

STANDARD FEATURES

APPLICATION VERSATILITY

Upflow or horizontal right as shipped (field-convertible for down-flow or horizontal left applications). Can be AHRI certified 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.

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.

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.

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

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.

MODULAR HYDRONIC HEAT KITS

Heat kits available with either circuit breakers or terminal blocks. Available in 2, 3 & 4 row, providing 16,000 to 59,000 BTU's of heat. Heat kits are easily installed in the field using molex plugs or can be ordered factory-installed. 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 does not protrude through the wall panel. 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 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, UV safe, GLP drain pan holds minimal condensate while eliminating the possibility of corrosion. Galvanized metal drain pan with bottom primary and secondary drain connections or alternate right side primary. All connections 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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AHRI
AIR-CONDITIONING, HEATING,
& REFRIGERATION INSTITUTE
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ETL
US
LISTED

R-410a
READY

5 YEAR
LIMITED WARRANTY*

ASSEMBLED
IN THE
USA

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

Revised 01/11/17. In keeping with its policy of continuous progress and product improvement, Aspen reserves the right to make changes without notice and incurring obligation. © 2017

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		Ft .Water	120º	140º		
AFM 18, 19	W[C,T]2S(P,L)	1.5	2	18"x12"	2.8	17700	24900	39600	6.6	15
	W[C,T]3S(P,L)		3	18"x12"	2.1	21600	30500	48400		
AFM 24, 25	W[C,T]2S(P,L)	2	2	18"x12"	2.8	20200	28500	45400	6.6	15
	W[C,T]3S(P,L)		3	18"x12"	2.1	25000	35300	56300		
AFM 30, 31	W[C,T]2S(P,L)	2.5	2	18"x12"	2.8	22100	31300	49900	9.1	20
	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	70100		
AFM 36, 37	W[C,T]2S(P,L)	3	2	18"x12"	2.8	23700	33500	53600	9.1	20
	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		
AFM 42, 43	W[C,T]2L(P,L)	3.5	2	22"x14.5"	3.6	30200	42600	68000	14.3	30
	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		
AFM 48, 49	W[C,T]2L(P,L)	4	2	22"x14.5"	3.6	31700	44800	71400	14.3	30
	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		
AFM 60, 61	W[C,T]2L(P,L)	5	2	22"x14.5"	3.6	32900	46600	74400	14.3	30
	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 GPM CAPACITY BTU/HR at 5 GPM			MIN.CIR. AMPACITY 120 volt	MAX FUSE OR CIRCUIT BREAKER
			ROW	SIZE		Ft .Water	120º	140º		
AFM 18/19/24/25	W[C,T]2S(P,L)	Low	2	18"x12"	5.6	18700	26400	41900	6.6	15
	W[C,T]2S(P,L)	High	2	18"x12"	5.6	22600	31600	49500		
	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		
AFM 30/31/36/37	W[C,T]2S(P,L)	Low	2	18"x12"	5.6	23900	33800	53800	9.1	20
	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]4L(P,L)	Low	4	18"x12"	2.2	34000	48000	76600		
	W[C,T]4L(P,L)	High	4	18"x12"	2.2	37200	52600	83800		
AFM 42/43/48/49/60/61	W[C,T]2L(P,L)	Low	2	22"x14.5"	5.6	33200	46800	74500	14.3	30
	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"	4.2	40500	57300	84400		
	W[C,T]3L(P,L)	High	3	22"x14.5"	4.2	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 Coil 3- 3 Row Hydronic Coil 4- 4 Row Hydronic Coil	S= 18-37, Coil size- 18 x 12 L= 42-61, Coil size- 22 x 14.5	P= w/pump L= less pump

BLOWER DATA

MODEL	SPEED TAP	MOTOR HP	MOTOR AMPS	MOTOR VOLTAGE	CFM V. EXTERNAL STATIC *				
					0.10	0.20	0.30	0.40	0.50
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
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
AFM 42/43/48/60/61	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

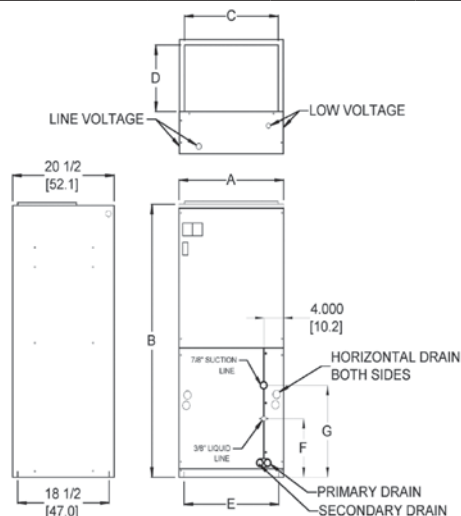
*Dry coil

AIR HANDLER CHASSIS NOMENCLATURE

AFM	18	G	-001
AFM = 120V Constant torque ECM Multi-Position Air Handler	Nominal tonnage (MBTUH)	<u>Metering device</u> 4 = non-bleed A/C or H/P R410 TXV B = 20% bleed A/C or H/P R22 TXV F = 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
AFM18/19+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
AFM24/25+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
AFM30/31+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
AFM36/37+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
AFM42/43+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
AFM48/49+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
AFM60/61+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



RATINGS						
AHRI#	Condenser	Air Handler	CFM	Total Capacity	SEER	EER
8992136	NXA618GKA*	AFM254	600	18000	16.50	13.00
9060347	NXA624GKA*	AFM254	800	24000	16.50	13.20
9060348	NXA630GKA*	AFM374	1000	30000	16.00	13.00
9060349	NXA636GKA*	AFM374	1200	35000	16.00	13.00
9060350	NXA642GKA*	AFM484	1400	42000	16.00	13.00
9060351	NXA648GKA*	AFM484	1600	44500	16.00	13.00
9060355	NXA648GKA*	AFM614	1600	46500	16.50	13.00
9060354	NXA660GKA*	AFM614	1960	52500	16.50	13.00

RATINGS						
AHRI#	Condenser	Air Handler	CFM	Total Capacity	SEER	EER
9916995	HSA618GKA**	AFM254	585	15900	16.50	13.20
9917035	HSA624GKA**	AFM254	780	21200	16.50	13.00
9917084	HSA630GKA**	AFM374	980	26400	16.50	13.30
9917144	HSA636GKA**	AFM374	1175	31600	16.50	13.00
9917204	HSA642GKA**	AFM484	1370	37000	16.00	13.00
9917308	HSA648GKA**	AFM484	1565	42000	16.00	13.30
9917259	HSA648GKA**	AFM614	1565	42000	16.50	13.30
9917369	HSA660GKA**	AFM614	1920	52000	16.50	13.10



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