



PRODUCT DIMENSIONS & SPECIFICATIONS

AFM SERIES HIGH EFFICIENCY X13 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

X13 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" 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 variable-speed blowers circulate air quietly and efficiently. Variable speed motors allow for precise air volume selection. 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.



Phone: 281.441.6500
Toll Free: 800.423.9007
Fax: 281.441.6510
www.aspenmfg.com



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

Revised 04/02/14. In keeping with its policy of continuous progress and product improvement, Aspen reserves the right to make changes without notice and incurring obligation. © 2014

HEATING AND COOLING PERFORMANCE AND ELECTRICAL DATA

MODEL	HYDRONIC HEAT KIT	PERFORMANCE DATA						ELECTRICAL DATA	
		NOMINAL COOLING	HEATING COIL		HEATING CAPACITY BTU/HR at 3 GPM			MIN. CIR. AMPACITY	MAX FUSE OR CIRCUIT BREAKER
			ROWS	SIZE	ENTERING WATER TEMP				
					120°	140°	180°		
AFM18, 19	WC/T2SP/L	1.5	2	18"x12"	17700	25100	40400	6.6	15
	WC/T3SP/L		3		22600	32000	51300		
AFM24, 25	WC/T2SP/L	2	2		20100	28700	46100		
	WC/T3SP/L		3		26100	37000	59300		
AFM30, 31	WC/T2SP/L	2.5	2		22100	31400	50600	9.1	20
	WC/T3SP/L		3		28700	40900	65500		
	WC/T4SP/L		4		32500	46100	74000		
AFM36, 37	WC/T2SP/L	3	2		23600	33800	54300		
	WC/T3SP/L		3		31000	44000	70600		
	WC/T4SP/L		4		34900	49700	79700		
AFM42, 43	WC/T2LP/L	3.5	2	31000	44100	70700	14.3	30	
	WC/T3LP/L		3	37800	53800	86300			
	WC/T4LP/L		4	42600	60600	97100			
AFM48, 49	WC/T2LP/L	4	2	32400	46000	73900			
	WC/T3LP/L		3	39500	56200	90100			
	WC/T4LP/L		4	44400	63200	101300			
AFM60, 61	WC/T2LP/L	5	2	34100	48600	77900			
	WC/T3LP/L		3	41500	59100	94800			
	WC/T4LP/L		4	46600	66300	106400			

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	240	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 X13 Motor Multi-Position Air Handler	Nominal tonnage (MBTUH)	Metering device 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

HYDRONIC HEAT KIT NOMENCLATURE

U	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

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	3
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	3
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	3

