



PRODUCT DIMENSIONS & SPECIFICATIONS

AFM SERIES VARIABLE SPEED MULTI-POSITION HYDRONIC HEAT DX COIL AIR HANDLERS



STANDARD FEATURES

GENERAL

The AFM Series variable speed Air Handler is equipped with electronically commutated constant torque motor (X-13). X13 offers constant torque over the range of static pressures, enhanced performance and energy efficiency.

APPLICATION VERSATILITY

Upflow or horizontal right as shipped (field-convertible for down-flow or horizontal left applications). ETL approved and can be ARI certified with most brands of air conditioners or heat pumps for use with either R22 or R410a when 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.

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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R-410a
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HEATING AND COOLING PERFORMANCE AND ELECTRICAL DATA

UNIT MODEL	HYDRONIC HEAT KIT MODEL	NOMINAL COOLING	PERFORMANCE DATA					ELECTRICAL DATA	
			HEATING COIL		HEATING CAPACITY BTU/HR at 3 GPM			MIN. CIR. AMPACITY	MAX FUSE OR CIRCUIT BREAKER
			ROW	SIZE	ENTERING WATER TEMP				
				120°	140°	180°			
AFM18, 19	WC/T2SP/L	1.5	2	18"x12"	15700	22100	35200	4.1	15
AFM18, 19	WC/T3SP/L		3	18"x12"	19900	28000	44500		
AFM24, 25	WC/T2SP/L	2.0	2	18"x12"	17800	25200	40100	4.1	15
AFM24, 25	WC/T3SP/L		3	18"x12"	22900	32300	51400		
AFM30, 31	WC/T2SP/L	2.5	2	18"x12"	19500	27500	43900	7.4	15
AFM30, 31	WC/T3SP/L		3	18"x12"	25200	35600	56700		
AFM30, 31	WC/T4SP/L		4	18"x12"	28400	40100	64000		
AFM36, 37	WC/T2SP/L	3.0	2	18"x12"	20800	29500	47100	7.4	15
AFM36, 37	WC/T3SP/L		3	18"x12"	27100	38300	61100		
AFM36, 37	WC/T4SP/L		4	18"x12"	30500	43200	68900		
AFM42, 43	WC/T2LP/L	3.5	2	22"x14.5"	27100	38400	61200	12.6	15
AFM42, 43	WC/T3LP/L		3	22"x14.5"	33000	46700	74500		
AFM42, 43	WC/T4LP/L		4	22"x14.5"	37100	52500	83800		
AFM48, 49	WC/T2LP/L	4.0	2	22"x14.5"	28300	40000	63900	12.6	15
AFM48, 49	WC/T3LP/L		3	22"x14.5"	34400	48700	77800		
AFM48, 49	WC/T4LP/L		4	22"x14.5"	38600	54700	87400		
AFM60, 61	WC/T2LP/L	5.0	2	22"x14.5"	29800	42200	67300	12.6	15
AFM60, 61	WC/T3LP/L		3	22"x14.5"	36100	51200	81800		
AFM60, 61	WC/T4LP/L		4	22"x14.5"	40500	57400	91800		

BLOWER DATA

MODEL	MOTOR HORSEPOWER	MOTOR VOLTAGE	PROGRAMMED CFM
AFM18, 19, 24, 25	1/3	120	600
AFM30, 31, 36, 37	1/2		1000
AFM42, 43, 48, 49, 60, 61	1		1400
			1600
			2000

AIR HANDLER CHASSIS NOMENCLATURE

AFM	18	F	-001
AFM = 120V X13 Motor 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 X = non-bleed A/C or H/P R22 TXV	Option Code

HYDRONIC HEAT KIT NOMENCLATURE

W	C	2	S	P
Water heat (hydronic)	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

