AFW SERIES AIR HANDLERS
WALL MOUNT HYDRONIC HEAT

Unit shown with service panels removed. Representative drawing only. Some models may vary in appearance.

5-YEAR LIMITED WARRANTY

FEATURES AND BENEFITS:

APPLICATION VERSATILITY
Front or bottom return air. Offset hanging brackets attach to unit and wall to allow hanging inside closet. Can be AHRI matched 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
Pre-programmed, 5-speed, ECM motors that ensure higher efficiency and increased energy savings by delivering constant torque during operation.

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, fully insulated galvanized steel cabinet; stick pins ensure 1/2” insulation remains in place. Unit ships with disposable filter.

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. Totally lead free constructed coil. Suitable for potable applications.

BLOWER
Direct drive multi-speed blowers circulate air quietly and efficiently. Motor speeds can be easily selected via motor terminals. Swing mounted blowers 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.

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 check style flowrater or TXV metering device. Field-installable TXVs are also available. 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.

P 800-423-9007

SPECIFICATIONS & PERFORMANCE:

HEATING AND COOLING PERFORMANCE AND ELECTRICAL DATA									
MODEL	PERFORMANCE DATA							ELECTRICAL DATA	
	HYDRONIC HEAT KIT MODEL	NOMINAL COOLING (BTUS)	HEATING COIL	HYDRONIC COIL DELTA P	HEATING CAPACITY (BTU) @ 3.5 GPM			MINIMUM CIRCUIT AMPACITY (MCA)	MAX BREAKER OR FUSE SIZE
					ENTERING WATER TEMP.				
			ROW	FT. WATER	120°	140°	180°		
AFW18	U(C,T)2S(P,L)	18,000	2	3	18,800	26,600	42,300	6.6	15
	U(C,T)3S(P,L)		3	1.8	21,600	30,400	48,500		
AFW24	U(C,T)2S(P,L)	24,000	2	3	21,000	30,100	48,000		
	U(C,T)3S(P,L)		3	1.8	24,700	34,800	55,600		
AFW30	U(C,T)2S(P,L)	30,000	2	3	23,200	32,800	52,500	9.1	
	U(C,T)3S(P,L)		3	1.8	27,000	38,200	61,100		
	U(C,T)4S(P,L)		4	1.1	28,300	40,100	64,000		
AFW36	U(C,T)2S(P,L)	36,000	2	3	24,700	35,000	56,000		
	U(C,T)3S(P,L)		3	1.8	29,900	41,000	65,500		
	U(C,T)4S(P,L)		4	1.1	30,400	43,000	68,800		

BLOWER DATA									
MODEL	SPEED TAP	MOTOR			CFM V EXTERNAL STATIC*				
		HP	AMPS	VOLTAGE	0.1	0.2	0.3	0.4	0.5
AFW18 & AFW 24	TAP 5	1/3	4.8	120	900	851	800	742	682
	TAP 4				652	630	591	556	530
	TAP 3				500	476	452	421	400
	TAP 2				400	381	360	339	312
	TAP 1				900	851	800	742	682
AFW30 & AFW36	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

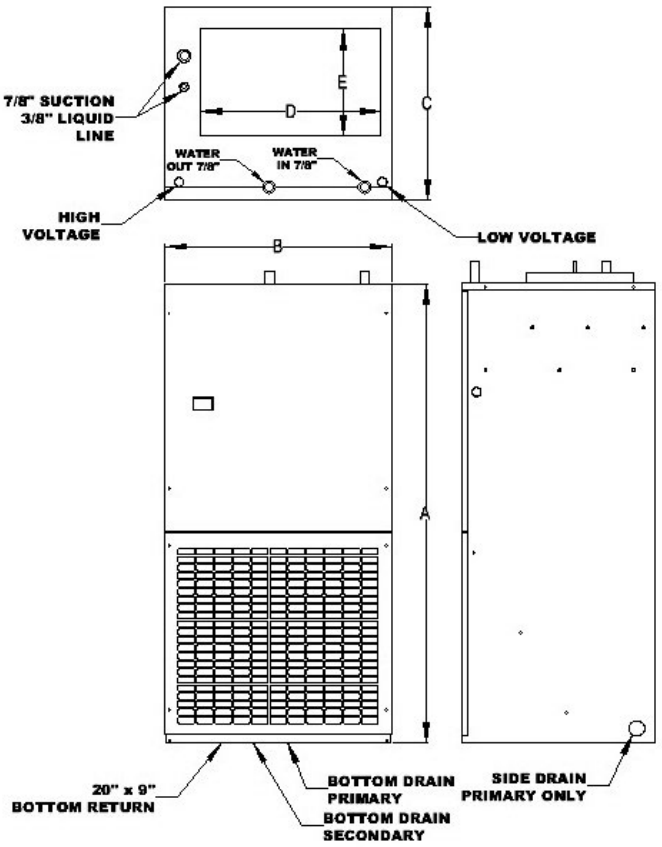
AIR HANDLER CHASSIS NOMENCLATURE			
AFW	18	G	-001
AFW 115V X13 Motor Vertical Wall Mount	Nominal Tonnage (MBTUH)	METERING DEVICE 4 = non-bleed A/C or H/P R410 TXV B = 20% bleed A/C or H/P R22 TXV F = Flo-rater G = R410a Flo-rater X = non-bleed A/C or H/P R22 TXV	OPTION CODE (See list)

HYDRONIC HEAT KIT NOMENCLATURE				
U	C	2	S	P
Wall Mount Hydronic Het	Interruption C = Circuit Breaker T = Terminal Block	# of rows 2 = 2 rows 3 = 3 rows 4 = 4 row	S = 18 - 36	P = Taco 006 Bronze Pump 8 = Taco 008 Bronze Pump R = with 009 Pump (kit required) L = Less Pump

AFW Spec-2024-6

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

AFW DIMENSIONS AND SPECIFICATIONS (In. [mm] (Fig. 1)									
Model	HEIGHT A	WIDTH B	DEPTH C	D	E	FILTER SIZE	PISTON SIZE	SHIPPING WEIGHT	SKID QTY
AFW18*	44-1/2 (113)	22 (56)	18-3/4 (48)	17-5/8 (45)	10-1/2 (27)	20X20	0.055	110	4
AFW24*							0.059		
AFW30*							0.068	118	
AFW36*							0.074		



AFW DIMENSIONS AND SPECIFICATIONS (Fig. 2)									
PANEL MODEL	FOR USE WITH	FINISH	OPENING SIZE		PANEL DIMENSION		FRAME DIMENSION		# OF PANELS
			A"	B"	C"	D"	E"	F"	
WAD-9(S/L)	AFW	EMBOSSED	22-1/4	46	24-1/4	48	24-1/8	47-7/8	1
WAD-10(S/L)				52		54		53-7/8	
WAD-16(S/L)		SMOOTH							
WAD-17(S/L)				46		48		47-7/8	
WAD-24L	AFW+6"			52	24	53-15/16	27-5/16	57-1/4	
WAD-25L	AFW			46		47-15/16		51-1/4	

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