ABW SERIES

WALL MOUNT HYDRONIC HEAT

FEATURES, BENEFITS, DIMENSIONS, & SPECIFICATIONS



Unit shown with service panels removed.
Representative image only. Some models may vary in appearance. Due to continuous product improvement, specifications are subject to change without notice.

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 R-22, R-410A, R-454B, and R-32 when a proper metering device is used.
- In accordance to UL 60335 Refrigerant Detection Systems are factory-installed on A2L refrigerant ready air handlers.

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 and 4 row, providing 16,000 to 59,000 BTU's of heat. Heat kits are 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. Suitable for potable applications. Disconnect does not protrude through the wall panel. Fan time delay relay standard 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 water stagnation.

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 GLN drain pan holds minimal condensate while eliminating the possibility of corrosion. Drain pan is UV safe. All drain connections are 3/4" FPT. Access door allows for coil cleaning.

WARRANTY Five-year limited parts warranty.

OPTIONS See options menu.



WANT MORE INFORMATION ON ASPEN'S ABW SERIES AIR HANDLERS?

SCAN QR CODE TO VISIT THIS PRODUCT ON OUR WEBSITE



For complete warranty details, please visit our Warranty Information tab when you visit Aspen's website.

To view this coil's product information online for the most up-to-date information scan the QR Code.

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HEATING/COOLING PERFORMANCE & ELECTRICAL DATA										
		PERI	ELECTRICAL DATA							
MODEL	NOM. COOLING (BTU)	HYDRONIC HEAT KIT	HEAT. COIL	HYDRONIC COIL Δ P.	HEATING CAPACITY (BTU) @ 3.5 GPM			MIN. CIRCUIT	MAX. BREAKER OR FUSE SIZE (MEU2)	
					ENTERING WATER TEMP.			AMPACITY (MCA2)		
			# ROWS	FT. WATER	120°	140°	180°			
ABW	18,000	U(C,T)2S(P,L)	2	3	18800	26600	42300	4.1		
18	10,000	U(C,T)3S(P,L)	3	1.8	21600	30400	48500	4.1		
ABW	24,000	U(C,T)2S(P,L)	2	3	21000	30100	48000	4.1		
24		U(C,T)3S(P,L)	3	1.8	24700	34800	55600	4.1		
		U(C,T)2S(P,L)	2	3	23200	32800	52500	7.9	15	
ABW 30	30,000	U(C,T)3S(P,L)	3	1.8	27000	38200	61100	7.9	15	
		U(C,T)4S(P,L)	4	1.1	28300	40100	64000	7.9		
ABW 36		U(C,T)2S(P,L)	2	3	24700	35000	56000	7.9		
	36,000	U(C,T)3S(P,L)	3	1.8	29900	41000	65500	7.9		
		U(C,T)4S(P,L)	4	1.1	30400	43000	68800	7.9		

BLOWER DATA										
MODEL		PSC N	IOTOR		CFM VS EXTERNAL STATIC (DRY COIL)					
MODEL	SPEED	HP	AMP	VOLT	0.1	0.2	0.3	0.4	0.5	
ABW	LOW	1/5	2.8	400	772	736	690	633	574	
18/24	HIGH	1/5	2.8		829	784	732	663	600	
ABW	LOW	1/3	5.8	120	1000	980	920	870	800	
30/36	HIGH	1/3	5.8		1210	1190	1160	1130	1070	

AIR HANDLER CHASSIS NOMENCLATURE									
ABW	NOM. TON.	METERING DEVICE	OPTION CODE						
ADVV	18	F	-001						
120V PSC MOTOR VERTICAL WALL MOUNT	18 = 18,000 24 = 24,000 30 = 30,000 36 = 36,000 (MBTUH)	A1 4 = R410A (TXV NON-BLEED A/C or H/P) G = R410A (PISTON) B = R22 (TXV 20% BLEED A/C or H/P) F = R22 (PISTON) A2L D = R32 (TXV NON-BLEED A/C or H/P) M = R32 (PISTON) J = R454B (TXV NON-BLEED A/C or H/P) N = R454B (PISTON) K = R454B (TXV 20% BLEED A/C or H/P)	OPTION CODE						

HYDRONIC HEAT NOMENCLATURE									
HEAT KIT SERIES	POWER CONNECTION	# ROWS	CABINET SIZE & NOM. TON.	PUMP TYPE					
U	С	2	S	Р					
WALL MOUNT HYDRONIC HEAT	C = CIRCUIT BREAKER T = TERMINAL BLOCK	2 = 2 ROWS 3 = 3 ROWS 4 = 4 ROWS	S (SMALL) 18-36	L = No Pump P = Taco 006 Pump (factory installed) 8 = Taco 008 Pump high head (factory installed) R = Taco 009 Pump high head (to be mounted external to all units except for multi-position units)					

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ABW DIMENSIONS & SHIPPING SPECIFICATIONS (In.) - FIGURE 1											
MODEL			С	OPENING SIZE		EII TED	DIOTON	SHIPPING INFO			
MODEL	Α	В	C	D	Е	FILTER	PISTON	WEIGHT	QT		
ABW18*	44-1/2						0.055	110			
ABW24*		44-1/2	44-1/2	44-1/2	22	18-3/4	17-5/8	10-1/2	20X20	0.059	110
ABW30*	[113]	[56]	[48]	[45]	[27]	20/20	0.068	118	4		
ABW36*							0.074	118			

ABW DIMENSIONS (In.) - FIGURE 2													
PANEL			OPENING SIZE		PANEL SIZE		FRAME SIZE		# OF				
MODEL							FINISH	Α	В	С	D	E	F
WAD-16(S/L)	ABW	Smooth	22-1/4	52	24-1/4	54	24-1/8	53-7/8					
WAD-17(S/L)		Smooth	22-1/4	46	24-1/4	48	24-1/8	47-7/8	1				
WAD-24(S/L)		Smooth	22-1/4	52	24	54	27-1/3	51-1/4	'				
WAD-25(S/L)		Smooth	22-1/4	46	24	48	27-1/3	51-1/4					

FIGURE 1

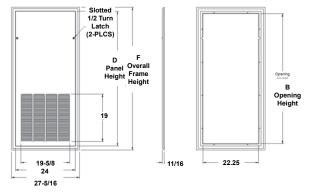
7/8" SUCTION 3/8" LIQUID LINE LOW VOLTAGE HIGH VOLTAGE 4-1/2" BOTTOM RETURN

Note: Code may require installer to use conduit

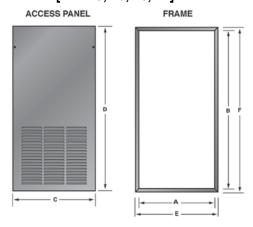
→ 3.31 -

FIGURE 2

[WAD-24, 25 S/L]



[WAD-9, 10, 16, 17]



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¹-1 PRIMARY DRAIN 1.48 SECONDARY DRAIN