

ABW SERIES HYDRONIC HEAT AIR HANDLER

WALL MOUNT



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

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.

- A2L refrigerants require a Refrigerant Detection System (RDS) for compliance. In accordance to UL 60335 Refrigerant Detection Systems are factory-installed on A2L refrigerant ready air handlers.
- ETL listed for R22 and R410A. ETL listed for R454B and R32 with Refrigerant Detection System (RDS).

120V PSC HYDRONIC MOTOR

Air Handlers come equipped with a standard 120-volt, multi-speed, single-stage PSC motor.

BLOWER

Direct drive multi-speed blowers circulate air quietly and efficiently. Motor speeds can be easily selected via motor terminals. Rail mounted blowers can be easily removed for service.

ELECTRONIC CONTROL BOARD

Electronic circuit board provides 30 sec. ON/OFF blower time delay extracting more heat/cool from the coil. 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 and coil freezing.

LOW LEAKAGE CABINET

Sturdy, fully insulated galvanized steel cabinet; stick pins ensure 1/2" insulation remains in place. Unit ships with disposable filter. Less than 1.4% air leakage from cabinet when tested in accordance with ASHRAE standard 193.

DX COIL

High-efficiency rifled copper tubes and enhanced aluminum fins provide maximum heat transfer. All coils are immersion tested at 500 psi, followed by nitrogen pressurization and factory sealing to ensure optimal system integrity and long-term reliability. Liquid-line Schrader allows pre-installation pressure assurance testing.

Available with either orifice or TXV metering device. Field-installable bolt-on TXVs are also available. Rugged GLP drain pan holds minimal condensate while eliminating the possibility of corrosion. Drain pan is UV safe. All drain connections are 3/4" NPT. Access door allows for coil cleaning.

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. 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.

WARRANTY Hassle-free five-year limited parts warranty.

OPTIONS See options menu.

CUSTOMIZATION OPTIONS*

UNIVERSAL A2L REFRIGERANT TECHNOLOGY FOR R32 & R454B SYSTEMS



IDEAL FOR USE WITH ASPEN AIR HANDLERS, AS WELL AS CASED & UNCASD COILS!

Versa Pro coils are easily configurable for use with either R32 or R454B refrigerant with proper metering device. Utilizing universal Refrigerant Detection Systems (RDS) to ensure regulatory compliance.

OTHER POPULAR CUSTOM OPTIONS:

- Refrigerant Detection System (RDS) kit factory-installed.
- Factory or field-installed TXV available.

DOWNFLOW KIT OPTIONS:

METAL DRAIN PANS

- 16" DWNFLWM-16
- 18" DWNFLWM-18

PLASTIC DRAIN PANS

- DWNFLWP

ABW-SS-AH-004-A



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

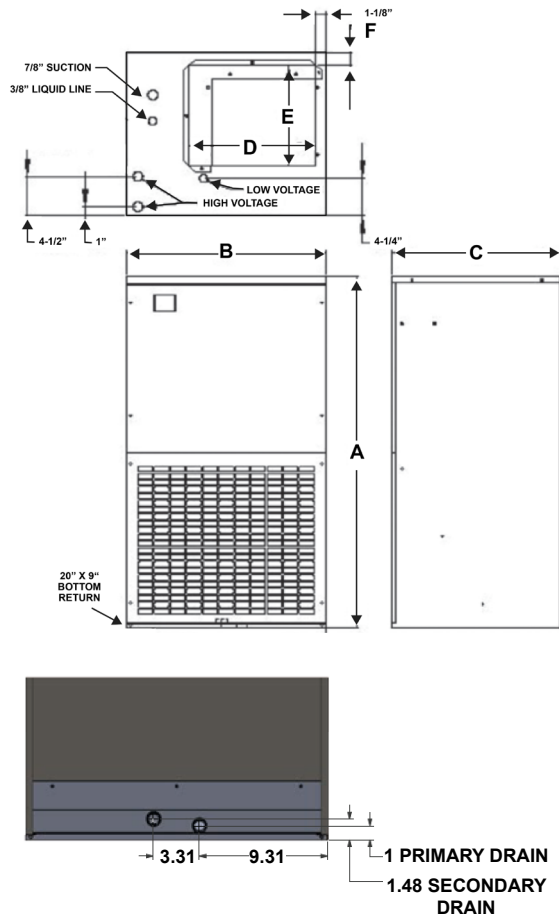
BLOWER DATA								
MODEL	120V PSC MOTOR			CFM VS EXTERNAL STATIC (DRY COIL)				
	SPEED	HP	AMP	0.1	0.2	0.3	0.4	0.5
ABW 18/24	LOW	1/5	2.8	772	736	690	633	574
	HIGH	1/5	2.8	829	784	732	663	600
ABW 30/36	LOW	1/3	5.8	1000	980	920	870	800
	HIGH	1/3	5.8	1210	1190	1160	1130	1070

AIR HANDLER CHASSIS NOMENCLATURE				
ABW	NOM. TON.	METERING DEVICE		OPTION CODE
	MBTUH	F		-001
120V PSC MOTOR VERTICAL WALL MOUNT	18 = 18,000 24 = 24,000 30 = 30,000 36 = 36,000	A1 REFRIGERANTS - R410A + R22		CUSTOMIZATION OPTIONS
		B = R22 (TXV 20% BLEED AC OR HP) 4 = R410A (TXV NON-BLEED AC OR HP)		
		F = R22 (FLOWRATOR) G = R410A (FLOWRATOR)		
		A2L REFRIGERANTS - R454B + R32		
		J = R454B (TXV NON-BLEED AC OR HP) D = R32 (TXV NON-BLEED AC OR HP)		
		K = R454B (TXV 20% BLEED AC OR HP) M = R32 (PISTON)		
		N = R454B (PISTON) Z = R454B or R32 CONFIGURABLE (Shipped with R454B Piston)		

HYDRONIC HEAT NOMENCLATURE				
HEAT KIT SERIES	POWER CONNECTION	# ROWS	CABINET SIZE & NOM. TON.	PUMP TYPE
U	C	2	S	P
WALL MOUNT HYDRONIC HEAT	C = CIRCUIT BREAKER T = TERMINAL BLOCK	2 = 2 3 = 3 4 = 4	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)

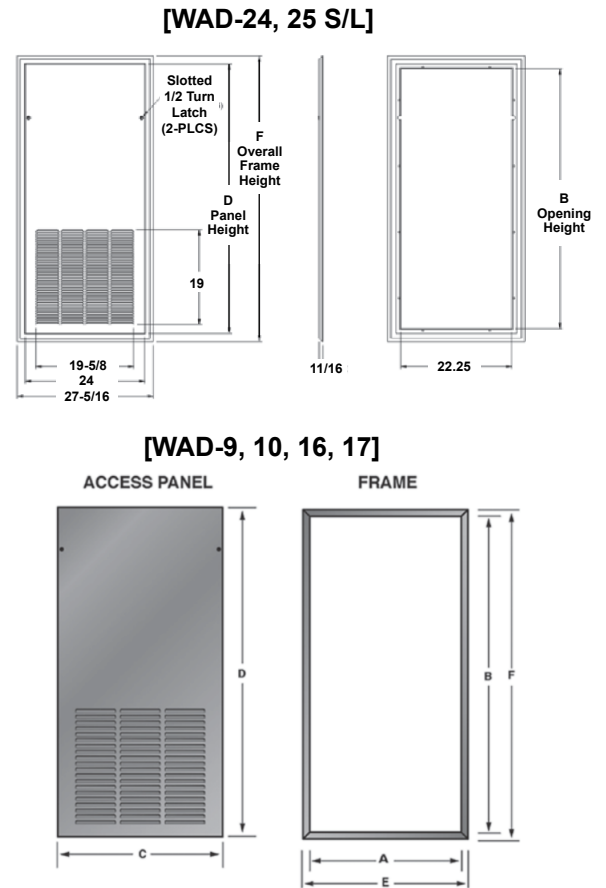
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FIGURE 1



Note: Code may require installer to use conduit

FIGURE 2



ABW DIMENSIONS & SHIPPING SPECIFICATIONS (In.)[mm.]- FIGURE 1								
MODEL	A	B	C	OPENING SIZE		FILTER 1" DEPTH	SHIPPING INFO	
				D	E		WEIGHT	QTY
ABW18*	44-1/2 [113]	22 [56]	18-3/4 [48]	17-5/8 [45]	10-1/2 [27]	20X20	110	4
ABW24*							110	
ABW30*							118	
ABW36*							118	

ABW DIMENSIONS (In.) - FIGURE 2									
PANEL MODEL	FOR USE WITH	FINISH	OPENING SIZE		PANEL SIZE		FRAME SIZE		# OF PANELS
			A	B	C	D	E	F	
WAD-16(S/L)	ABW	Smooth	22-1/4	52	24-1/4	54	24-1/8	53-7/8	1
WAD-17(S/L)		Smooth	22-1/4	46	24-1/4	48	24-1/8	47-7/8	
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	

HELPFUL LINKS



VIEW PRODUCT ONLINE

For full warranty terms and conditions, please refer to the Warranty Information section on Aspen's official website.



VIEW VERSA PRO ONLINE

Learn more about Aspen's A2L Refrigerant Technology for R32 and R454B Systems.