

AFL SERIES HYDRONIC HEAT FURNACE

MULTI-POSITION



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

APPLICATION VERSATILITY

Upflow, downflow, horizontal left or horizontal right as shipped.

- 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).

MOTOR

X-13 has 5 speed taps, Variable speed available with special wiring. Motors are pre-programmed at the factory.

MODULAR HYDRONIC HEAT KITS

Standard Heats kits available with either circuit breakers or terminal blocks and 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. 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.

BLOWER

Direct drive multi-speed blowers circulate air quietly and efficiently and allow for precise air volume selection. Five motor speeds can be easily selected via motor terminals. Blowers mounted on rails so they can be easily removed for service.

CABINET

Sturdy, galvanized steel cabinet with painted front panels. Cabinet fully insulated with 1/2" micro mat non-hygroscopic insulation to prevent sweating, 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.

WARRANTY Five-year limited parts warranty with registration.

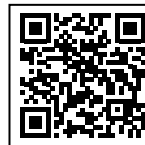
OPTIONS See options menu.

AFL-SS-AH-013-A

HELPFUL LINKS

**VIEW PRODUCT ONLINE**

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

**AHRI QUICK MATCH TOOL**

Identify the correct AHRI-certified match for any Aspen coil, air handler, or Aspen PRO air handler. Available on the Resources page.



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HEATING/COOLING PERFORMANCE & ELECTRICAL DATA											
MODEL	PERFORMANCE DATA								ELECTRICAL DATA		
	HYDRONIC HEAT KIT MODEL	SPEED TAP	HEATING COIL		HYDRONIC COIL Δ P.	HEATING @ 3.5 GPM CAPACITY (BTU/HR @ 3.5 GPM)				MIN. CIRCUIT AMPACITY	MAX. BREAKER OR FUSE SIZE
			ROW	SLAB SIZE		120°	140°	160°	180°		
AFLS	WC2SP	2	2	18X12	2.8	17700	24900	32300	39600	6.7	15
	WC2SP	1	2		2.8	20200	28500	36900	45400	6.7	15
	WC3SP	2	3		2.1	21600	30500	39400	48400	6.7	15
	WC3SP	1	3		2.1	25000	35300	45800	56300	6.7	15
	WC2SR	2	2		5.6	18700	26400	34100	41900	8.3	15
	WC2SR	1	2		5.6	21600	30500	39500	48500	8.3	15
	WC3SR	2	3		4.2	22900	32300	41700	51200	8.3	15
	WC3SR	1	3		4.2	26900	38000	49100	60300	8.3	15
AFLM	WC2SP	2	2		2.8	22100	31300	40500	49900	9.2	20
	WC2SP	1	2		2.8	23700	33500	43500	53600	9.2	
	WC3SP	2	3		2.1	27700	39100	50700	62400	9.2	
	WC3SP	1	3		2.1	29800	42100	54700	67300	9.2	
	WC4SP	2	4		1.1	31000	43900	57000	70100	9.2	
	WC4SP	1	4		1.1	33500	47400	61500	75800	9.2	
	WC2SR	2	2		5.6	23900	33800	43700	53800	10.8	
	WC2SR	1	2		5.6	25800	36500	47300	58200	10.8	
	WC3SR	2	3		4.2	30100	42500	55100	67700	10.8	
	WC3SR	1	3		4.2	32800	46300	60000	73700	10.8	
	WC4SR	2	4		2.2	34000	48000	62300	76600	10.8	
	WC4SR	1	4		2.2	37200	52600	68100	83800	10.8	
AFLF	WC2LP	3	2	22X 14-1/2	3.6	30200	42600	55300	68000	14.3	30
	WC2LP	2	2		3.6	31700	44800	58000	71400	14.3	
	WC2LP	1	2		3.6	32900	46600	60400	74400	14.3	
	WC3LP	3	3		1.7	36300	51400	66700	76600	14.3	
	WC3LP	2	3		1.7	38200	54000	70100	80600	14.3	
	WC3LP	1	3		1.7	39700	56200	73000	84000	14.3	
	WC4LP	3	4		1.1	43600	61600	79900	92900	14.3	
	WC4LP	2	4		1.1	45900	64900	84200	98000	14.3	
	WC4LP	1	4		1.1	47800	67600	87700	102200	14.3	
	WC2LR	3	2		7.2	33200	46800	60600	74500	15.8	
	WC2LR	2	2		7.2	35000	49400	64000	78700	15.8	
	WC2LR	1	2		7.2	36600	51800	67100	82500	15.8	
	WC3LR	3	3		3.4	40500	57300	74200	84400	15.8	
	WC3LR	2	3		3.4	42900	60700	78600	89500	15.8	
	WC3LR	1	3		3.4	45000	63600	82500	94000	15.8	
	WC4LR	3	4		2.2	49000	69300	89700	103600	15.8	
	WC4LR	2	4		2.2	52200	73800	95600	110400	15.8	
	WC4LR	1	4		2.2	55000	77700	100800	116300	15.8	

AIR HANDLER CHASSIS NOMENCLATURE		
AFL	CABINET SIZE & NOM. TON.	OPTION CODE
	S	-001
120V ECM MOTOR LOW BOY HYDRONIC FURNACE	S (SMALL) 18 & 24 M (MEDIUM) 30 & 36 L (LARGE) 42, 48 & 60	OPTION CODE

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X-13 BLOWER DATA						
MODEL	SPEEDTAP	CFM VS EXTERNAL STATIC* (DRY COIL)				
		0.1	0.2	0.3	0.4	0.5
AFLS+ WC2SR WC3SR	T1	900	855	800	740	675
	T2	670	650	615	600	550
	T3	460	445	420	400	385
	T4	900	855	800	740	675
	T5	350	335	315	300	280
AFLM+ WC2SR WC3SR WC4SR	T1	1200	1130	1085	1030	985
	T2	1140	1090	1030	975	910
	T3	905	870	835	800	740
	T4	760	730	695	650	605
	T5	475	450	425	400	375
AFL+ WC2LR WC3LR WC4LR	T1	1875	1800	1730	1690	1625
	T2	1705	1660	1600	1530	1480
	T3	1495	1460	1430	1400	1365
	T4	1340	1295	1255	1200	1140
	T5	910	875	840	800	745

*Dry coil with filter in place.

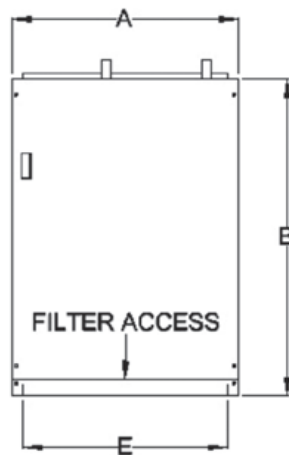
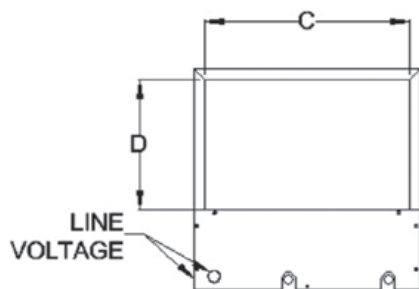
PHYSICAL DATA				
MODEL		AFLS	AFLM	AFL
TRANSFORMER		40 VA, CLASS 2. 120V PRIMARY, 24 V SECONDARY		
VOLTAGE		120V - 60Hz		
FILTER SIZE		16x20x1		20x20x1
BLOWER DATA	WHEEL (DIA. x WIDTH)	9 x 6	10 x 8	12 x 9
	MOTOR HP	1/3	1/2	1
	MOTOR F.L.A.	4.8	6.8	10.9
	FACTORY SPEED TAP	T1		
	NOM. CFM RANGE	800 - 300	1200 - 400	1800 - 800
PUMP DATA 006 STANDARD	PUMP VOLTAGE	115		
	PUMP HP	1/40		
	PUMP AMPS	.52		
PUMP DATA 009 SPECIAL	PUMP VOLTAGE	115		
	PUMP HP	1/8		
	PUMP AMPS	1.8		

HYDRONIC HEAT KIT NOMENCLATURE				
HEAT KIT SERIES	POWER CONNECTION	ROWS	CABINET SIZE & NOM. TONNAGE	PUMP TYPE
W	C	2	S	P
MULTI-POSITION HYDRONIC HEAT	C = CIRCUIT BREAKER T = TERMINAL BLOCK	2 = 2 3 = 3 4 = 4	S (SMALL) 18/24/30/36 L (LARGE) 42/48/60	L = No Pump P = Standard Taco 006 Pump w/ Check Valve (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)

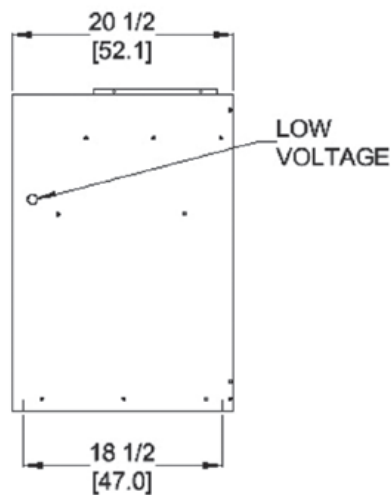
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FIGURE 1



CABINET INSTALLATION CLEARANCES (In.)		
CLEARANCE AREA	OPERATION	SERVICE
TOP	0	0
FRONT		30
SIDES		0
REAR		0



DIMENSIONS AND SHIPPING SPECIFICATIONS (In.) - FIGURE 1

MODEL	A	B	DUCT OPENING		BOTTOM OPENING	FILTER	SHIPPING INFO	
			C	D			WEIGHT	SKID QTY
AFLS	21	30	18-3/4	12	18-1/2	16X20	83	8
AFLM	21	30	18-3/4	12	18-1/2	16X20	85	
AFLI	24-1/2	33	22-1/4	14-1/2	22-1/4	20X20	110	

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