

AFL SERIES - FURNACE

HYDRONIC 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.

- 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 and AHRI listed for R22, R410A, R454B, and R32 refrigerants [A2L refrigerants certified with Refrigerant Detection System (RDS)].

120V CONSTANT TORQUE ECM MOTOR

Air handler models come equipped with a multi-speed, constant torque ECM. Motor speed and torque are managed via integrated software to ensure consistent torque output across all operating conditions.

BLOWER

Direct drive blowers circulate air quietly and efficiently. Blowers mounted on rails so they can be easily removed for service.

LOW LEAKAGE CABINET

Less than 2% air leakage from cabinet when tested in accordance with ASHRAE standard 193. Sturdy, galvanized steel cabinet with painted front panels. Cabinet fully insulated with 1/2" faced insulation to encapsulate glass fibers, to prevent sweating, and to provide excellent R-value. Stick pins ensure insulation remains in place.

MODULAR HYDRONIC HEAT KITS

Air Handlers are available with either factory-installed circuit breakers or terminal blocks. Hydronic Coils come in 2, 3 and 4 row with the options of pump or no pump configurations. 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.

WARRANTY Hassle-free five-year limited parts warranty. **OPTIONS** Ask your local Aspen Sales Rep for customization options.

AIR HANDLER CHASSIS NOMENCLATURE

AFL	CABINET SIZE & NOM. TON.	METERING DEVICE	OPTION CODE
	S/M/L	4	-001
120V CONSTANT TORQUE ECM MOTOR HYDRONIC MULTI-POSITION AIR HANDLER	S = 18/24 M = 30/36 L = 42/48/60	4 = R410A (TXV NON-BLEED AC/HP) G = R410A (PISTON) X = R22 (TXV NON-BLEED AC/HP) B = R22 (TXV 20% BLEED AC/HP) F = R22 (PISTON)	OPTION CODE

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 = 18/24/30/36 L = 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)

AFL-SS-AH-013-A



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HEATING/COOLING PERFORMANCE & ELECTRICAL DATA											
MODEL	PERFORMANCE DATA									ELECTRICAL DATA	
	HYDRONIC HEAT KIT MODEL	MOTOR SPEED TAP	HEATING COIL		HYDRONIC COIL Δ P. 3.5 GPM	HEATING @ 3.5 GPM CAPACITY (BTU/HR @ 3.5 GPM)				MIN. CIRCUIT AMPACITY MCA	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
		1	2	18x12	2.8	20200	28500	36900	45400	6.7	
	WC3SP	2	3	18x12	2.1	21600	30500	39400	48400	6.7	
		1	3	18x12	2.1	25000	35300	45800	56300	6.7	
	WC2SR	2	2	18x12	5.6	18700	26400	34100	41900	8.3	
		1	2	18x12	5.6	21600	30500	39500	48500	8.3	
	WC3SR	2	3	18x12	4.2	22900	32300	41700	51200	8.3	
		1	3	18x12	4.2	26900	38000	49100	60300	8.3	
AFLM	WC2SP	2	2	18x12	2.8	22100	31300	40500	49900	9.2	20
		1	2	18x12	2.8	23700	33500	43500	53600	9.2	
	WC3SP	2	3	18x12	2.1	27700	39100	50700	62400	9.2	
		1	3	18x12	2.1	29800	42100	54700	67300	9.2	
	WC4SP	2	4	18x12	1.1	31000	43900	57000	70100	9.2	
		1	4	18x12	1.1	33500	47400	61500	75800	9.2	
	WC2SR	2	2	18x12	5.6	23900	33800	43700	53800	10.8	
		1	2	18x12	5.6	25800	36500	47300	58200	10.8	
	WC3SR	2	3	18x12	4.2	30100	42500	55100	67700	10.8	
		1	3	18x12	4.2	32800	46300	60000	73700	10.8	
	WC4SR	2	4	18x12	2.2	34000	48000	62300	76600	10.8	
		1	4	18x12	2.2	37200	52600	68100	83800	10.8	
AFLF	WC2LP	3	2	22x14.5	3.6	30200	42600	55300	68000	14.3	30
		2	2	22x14.5	3.6	31700	44800	58000	71400	14.3	
		1	2	22x14.5	3.6	32900	46600	60400	74400	14.3	
	WC3LP	3	3	22x14.5	1.7	36300	51400	66700	76600	14.3	
		2	3	22x14.5	1.7	38200	54000	70100	80600	14.3	
		1	3	22x14.5	1.7	39700	56200	73000	84000	14.3	
	WC4LP	3	4	22x14.5	1.1	43600	61600	79900	92900	14.3	
		2	4	22x14.5	1.1	45900	64900	84200	98000	14.3	
		1	4	22x14.5	1.1	47800	67600	87700	102200	14.3	
	WC2LR	3	2	22x14.5	7.2	33200	46800	60600	74500	15.8	
		2	2	22x14.5	7.2	35000	49400	64000	78700	15.8	
		1	2	22x14.5	7.2	36600	51800	67100	82500	15.8	
	WC3LR	3	3	22x14.5	3.4	40500	57300	74200	84400	15.8	
		2	3	22x14.5	3.4	42900	60700	78600	89500	15.8	
		1	3	22x14.5	3.4	45000	63600	82500	94000	15.8	
	WC4LR	3	4	22x14.5	2.2	49000	69300	89700	103600	15.8	
		2	4	22x14.5	2.2	52200	73800	95600	110400	15.8	
		1	4	22x14.5	2.2	55000	77700	100800	116300	15.8	

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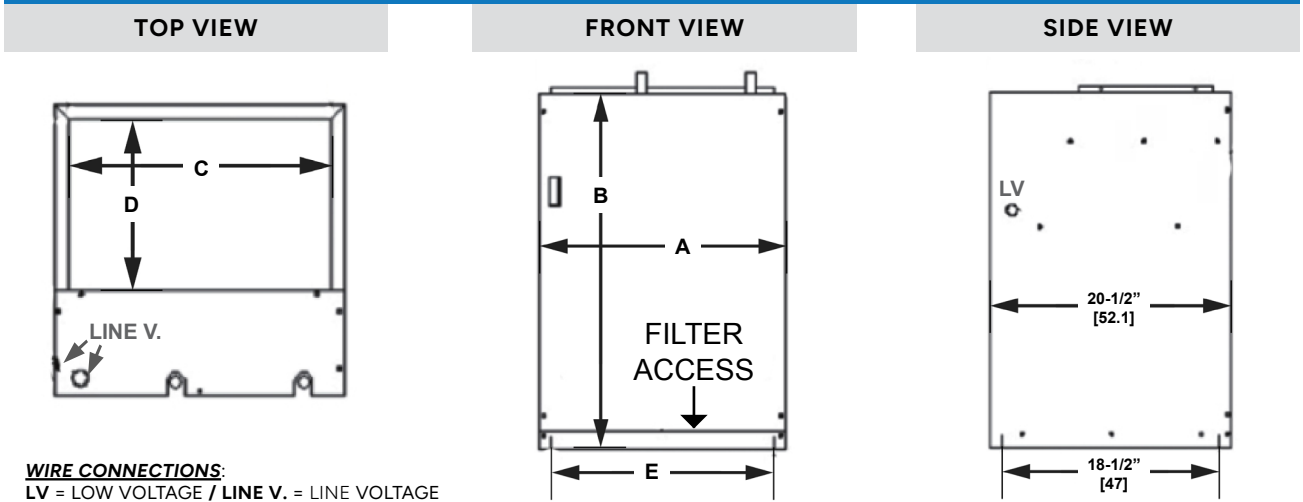
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BLOWER DATA								
MODEL	120V ECM MOTOR			CFM VS EXTERNAL STATIC* (DRY COIL)				
	HP	FLA	SPEED TAP	0.1	0.2	0.3	0.4	0.5
AFLS+ WC2SR WC3SR	1/3	4.8	T1	900	855	800	740	675
	1/3	4.8	T2	670	650	615	600	550
	1/3	4.8	T3	460	445	420	400	385
	1/3	4.8	T4	900	855	800	740	675
	1/3	4.8	T5	350	335	315	300	280
AFLM+ WC2SR WC3SR WC4SR	1/2	6.8	T1	1200	1130	1085	1030	985
	1/2	6.8	T2	1140	1090	1030	975	910
	1/2	6.8	T3	905	870	835	800	740
	1/2	6.8	T4	760	730	695	650	605
	1/2	6.8	T5	475	450	425	400	375
AFL+ WC2LR WC3LR WC4LR	1	10.9	T1	1875	1800	1730	1690	1625
	1	10.9	T2	1705	1660	1600	1530	1480
	1	10.9	T3	1495	1460	1430	1400	1365
	1	10.9	T4	1340	1295	1255	1200	1140
	1	10.9	T5	910	875	840	800	745

*Dry coil with filter in place.

FIGURE 1 - AFL DIMENSIONS



DIMENSIONS AND SHIPPING SPECIFICATIONS (In.)[mm.] - FIGURE 1

MODEL	A	B	DUCT OPENING		BOTTOM OPENING E	FILTER	SHIPPING INFO	
			C	D			WEIGHT	SKID QTY
AFLS	21 [533]	30 [762]	18-3/4 [476]	12 [305]	18-1/2 [470]	16X20X1	83	8
AFLM	21 [533]	30 [762]	18-3/4 [476]	12 [305]	18-1/2 [470]	16X20X1	85	
AFL+	24-1/2 [622]	33 [838]	22-1/4 [565]	14-1/2 [368]	22-1/4 [572]	20X20X1	110	

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