



ENVIROMASTER INTERNATIONAL CORPORATION

HYDRONIC AIR HANDLERS

HWFC Series

The HWFC Series of hydronic air handlers are designed to be installed in any residential or light commercial warm air application. The HWFC is an integral component of a complete heating system that utilizes an oil or gas-fired hot water boiler as its primary heating source and a dedicated duct system.

All HWFC models are designed to accept add-on air conditioning equipment to provide centralized comfort conditioning in all seasons.

Available in three sizes, the HWFC offers a full range of heating and cooling capacities-up to 147, 250 BTU/h heating and cooling from 3 to 5 tons (36,000-60,000 BTU/h).

► APPLICATIONS

The HWFC offers the economy and comfort advantages of a hydronic heating source. Ideal as retrofits or replacements for less efficient electric or heat pump systems. Installation of a boiler and an HWFC hydronic fan coil unit offers the homeowner maximum flexibility, economy and comfort.

This equipment offers an excellent solution for the delivery of heating to multiple floors when a hot water radiant system is utilized on the first floor. The addition of the air conditioning coil and condenser offers cooling through the duct system. Add an indirect domestic water heater and gain additional economies and comfort from the integrated hydronic heating system.

► EASY INSTALLATION & MAINTENANCE

The HWFC low cabinet design can be installed upflow, downflow or horizontal either side, providing installation flexibility in retrofits, replacements, or new construction.

The HWFC is equipped with an external filter rack whose location is determined by the installation requirements.

► WARRANTY

One year parts, 5 year coil warranty is standard.



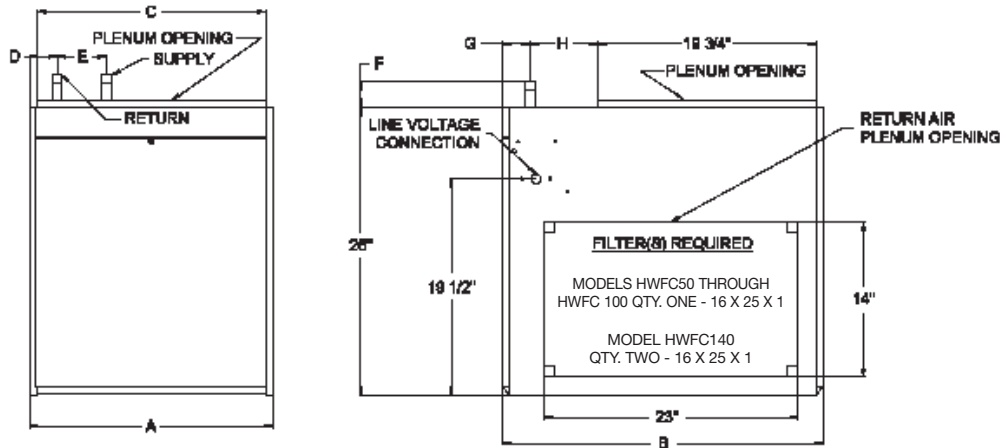
OPTIONAL A-COIL CONFIGURATION



- Compatible with all properly sized boilers
- Available in 3 cabinet sizes, in capacities ranging from 38,500 to 147,250 BTU/h
- Can be installed upflow, downflow or horizontal
- Copper Tube aluminum fin heating coil
- Full size hydronic coil for efficient heat transfer
- Factory supplied, field installed, external filter rack
- Direct drive blower
- Left, right or bottom air return
- Integral door safety switch
- Blower delay on call for heat
- Post purge adjustable fan timer
- Controls provided to accept A/C as standard

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PERFORMANCE & SPECIFICATION DATA



DIMENSIONAL & WEIGHT DATA

UNIT MODEL	A	B	C	D	E	F	G	H	SUPPLY & RETURN	WEIGHT (LBS.)
HWFC 50	17 1/2"	27"	16 1/4"	2 1/4"	3 1/2"	2 1/4"	4"	3"	1/2"	80
HWFC 100	22"	29"	20 3/4"	2 1/2"	4 1/2"	2 1/4"	1 1/2"	7 1/4"	3/4"	95
HWFC 150	26 1/2"	29"	25 1/4"	2 3/4"	4 1/2"	2"	1 1/2"	7 1/4"	1"	110

BLOWER DATA

UNIT MODEL	MOTOR HP	BLOWER SIZE	MOTOR AMPS (120V)	FAN SPEED (120V)*	CFM vs. EXTERNAL STATIC PRESSURE				
					.1	.2	.3	.4	.5
HWFC 50	1/3	10-7	5.2	HIGH	1350	1350	1300	1250	1200
				MEDIUM	920	910	910	400	875
				LOW	750	750	745	740	720
HWFC 100	3/4	10-9	9.1	HIGH	1730	1720	1700	1600	1450
				MEDIUM	1550	1550	1510	1460	1380
				LOW	1350	1350	1320	1280	1200
HWFC 150	3/4	10-10	9.1	HIGH	N/A	2300	2220	2100	2000
				MEDIUM	1930	1920	1880	1830	1765
				LOW	1500	1500	1500	1480	1445

PERFORMANCE DATA

UNIT MODEL	MAX TONS HIGH SPEED A/C	G.P.M. COIL	COIL PRESSURE DROP (FtWg)	OPTIONAL BLOWER SPEED*	HEATING BTU/h AT °F WATER @ .2 STATIC PRESSURE			
					150°F	160°F	170°F	180°F
HWFC 50	3	6	6.4 (FtWg)	LOW	41,600	46,600	51,600	55,700
		4.4	3.6	MED	49,200	55,500	60,800	67,000
						AIR CONDITIONING ONLY*		
HWFC 100	4	8.7	6.0	LOW	68,300	76,900	84,000	92,500
		6.0	3.0	MED	80,600	89,500	98,500	107,400
						AIR CONDITIONING ONLY*		
HWFC 150	5	12.2	5.0	MED	106,300	114,400	127,600	139,000
		8.7	2.7	HIGH	111,000	125,400	139,900	147,250

* High speed for AC only - Do not wire high speed for heating side of system. Unit performance based on 70 degrees F entering air temperature. Circulator pump purchased separately. Boiler must be sized to have a minimum capacity equal to HWFC output and other system loads. Due to ongoing product development, specifications are subject to change without notice.



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