



The

ASHCRAFT

COMPANY

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WEIL-McLAIN

MODEL 80

SUBMITTAL SHEET: MODEL 80



JOB NAME

LOCATION

ARCH./ENGR

MFGR's REP: ASHCRAFT COMPANY, INC.

MECH. CONTRACTOR

MODEL NO.

TYPE GAS

Btu/hr INPUT

Btu/hr OUTPUT

NOTES:



17 Dimensions and ratings

Boiler model number	Data				Dimensions (inches)						
	Supply tappings Qty-size (see Note)		Return tappings Qty-size (see Note)		A	B	D	F	H	W	L
	Water	Steam	Water	Steam							
380	2-4"	2-4"	2-3"	2-3"	13 1/8	--	8	12 7/16	13 1/2	20 3/8	21 5/8
480	2-4"	2-4"	2-3"	2-3"	20 1/8	--	8	13 5/8	20 1/2	27 3/8	28 5/8
580	2-4"	2-4"	2-3"	2-3"	27 1/8	--	8	13 5/8	27 1/2	34 3/8	35 5/8
680	2-4"	2-4"	2-3"	2-3"	34 1/8	--	8	13 5/8	34 1/2	41 3/8	42 5/8
780	2-4"	2-4"	2-3"	2-3"	41 1/8	--	10	27 5/8	41 1/2	48 3/8	49 5/8
880	2-4"	2-4"	2-3"	2-3"	48 1/8	--	10	27 5/8	48 1/2	55 3/8	56 5/8
980	2-4"	2-4"	2-3"	2-3"	55 1/8	--	10	41 5/8	55 1/2	62 3/8	63 5/8
1080	2-4"	3-4"	2-3"	2-3"	62 1/8	27 9/16	10	41 5/8	62 1/2	69 3/8	70 5/8
1180	2-4"	3-4"	2-3"	2-3"	69 1/8	34 9/16	10	55 5/8	69 1/2	76 3/8	77 5/8
1280	2-4"	3-4"	2-3"	2-3"	76 1/8	34 9/16	12	55 5/8	76 1/2	83 3/8	84 5/8

Note: Use piping connections shown in Manual, pages 14 through 19.

Boiler model number	I=B=R burner capacity		Gross I=B=R output	Net I=B=R ratings			Boiler H.P.	Net firebox volume	Stack gas volume	Positive pressure in firebox	Flue outlet diameter	Boiler water content (gallons)		Packaged boiler weight (less water)	Approx. operating weight (with water)
	Light oil GPH	Gas MBH		Steam Sq. Ft	Steam MBH	Water MBH						Water boiler	Steam to waterline		
Notes: 1	2	3, 4	5, 6		5	5			7	8					
380	2.40	346	278	867	208	242	8.3	2.61	139	0.28	8	37.5	27.5	1058	1170
480	3.40	491	396	1238	297	344	11.8	3.97	198	0.28	8	49.0	36.0	1203	1411
580	4.45	639	515	1608	386	448	15.4	5.33	259	0.28	8	60.5	44.5	1448	1752
680	5.50	787	634	1983	476	551	18.9	6.69	320	0.27	8	72.0	53.0	1843	2093
780	6.50	935	753	2354	565	655	22.5	8.05	378	0.27	10	83.5	61.5	2088	2434
880	7.50	1082	872	2725	654	758	26.0	9.41	436	0.27	10	95.0	70.0	2317	2774
980	8.50	1230	991	3096	743	862	29.6	10.77	494	0.27	10	106.5	78.5	2678	3115
1080	9.60	1378	1110	3471	833	965	33.2	12.13	558	0.26	10	118.0	87.0	2923	3456
1180	10.60	1526	1229	3842	922	1069	36.7	13.49	616	0.26	10	129.5	95.5	3068	3697
1280	11.60	1674	1348	4242	1018	1172	40.3	14.85	675	0.26	12	141.0	104.0	3313	4038

Notes

- Burner input based on maximum of 2,000 feet altitude. For higher altitudes consult local Weil-McLain representative.
- No. 2 fuel oil Commercial Standard Spec. CS75-56. Heat value of oil — 140,000 Btu/Gal.
- Consult Weil-McLain Burner Specifications and Data Sheet for gas pressures required.
- MBH refers to thousands of Btu per hour.
- Gross I=B=R ratings have been determined under the I=B=R provision forced draft boiler-burner units.
- Net I=B=R ratings are based on net installed radiation of sufficient quantity for the requirements of the building and nothing need be added for normal piping and pickup. Water ratings are based on a piping and pickup allowance of 1.15. Steam ratings are based on the following allowances: 380 thru 1180 — 1.333; 1280 — 1.321. An additional allowance should be made for gravity hot water systems or for unusual piping and pickup loads. Consult local Weil-McLain representative.
- Stack gas volume at outlet temperature.
- With 0.10" W.C. positive pressure at flue collar.

NOTICE: Boiler sections are tested for 80 PSIG working pressure. Water boilers are supplied with 30 PSIG relief valve standard.

17 Dimensions and ratings (continued)

