

88™ Series 2 Commercial Boiler Weil-McLain®

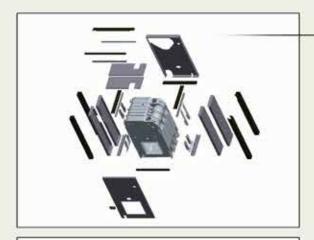
Gas, Oil & Gas/Oil Water or Steam MBH: 996-5,845 Combustion Eff.: Up to 87.5%

- Dup to 85.7% Thermal Efficiency
- Water or Steam
- Gas, Oil or Gas/Oil
- Complies to LEED
- Packaged or Knock-down

 Packaged or Knock-down







NEW Jacket design:

- . Modular jacketing and toolless jacket panels for easy access
- 3 inches of insulation to minimize jacket losses, maximizing thermal efficiencies
- . Modular side panels for ease of assembly
- · High temperature site glass grommets
- · Part number labels on all components for easy assembly

NEW Efficiencies!

- . 85.7% Thermal Efficiencies (see ratings)
- · HXT-bars optimize heat transfer



NEW clean-out plates:

- . ¼ inch thick solid steel plates
- · Coated Woven Fiberglass reusable gasket
- · Reusable cleaning after cleaning

Backwards Compatible:

 Can use up to 50% Series 2 iron on a Series 1 block without consulting Weil-McLain® – no need to stock both!

Standard Equipment

All Boilers:

- . ASME 80 PSI rated cast Iron sections
- · Insulated steel jacket
- Power burner for light oil, gas or gas/light oil (except H-XX88)
- Burner mounting plate with refractory (except H-XX88)
- Cast iron flue collar with built-in breaching damper
- Observation ports on front and back sections
- . Cleanout plates with reusable gaskets
- . Flue brush
- . HXT-bars
- 3 inches of insulation (except front panel)

Water Boilers

- . 30 PSI ASME relief valve
- Combination high limit and low limit with manual reset control
- · Combination pressure/temperature gauge
- Nipple and 5" x 6" reducing coupling (1288 – 1888 boilers only)
- . Built-in air eliminator

Steam Boilers

- . 15 PSI ASME safety valve side outlet
- . Low limit and high limit pressure controls
- . Steam pressure gauge siphon
- . Gauge cocks, glass and guards

Optional Equipment

- · Factory assembled sections
- Burner mounting plate with refractory for "H" units
- · Intermediates with tankless heater opening
- Tankless heaters for domestic hot water (water or steam boilers)
- · Tankless heater opening cover plates
- . Low water cutoffs
- · Barometric dampers
- Side inspection tappings with plugs
- 2 per section
- . Dual-range manometer
- . Optional burners and burner controls



			I=B=R		l.	I=B=R Net	Rating		Flue Outlet	10000	ustion iency	Ther Effici	
T	Model	Oil Input GPH	Gas Input MBH	Gross Output MBH	Steam MBH	Steam Sq. Ft.	Water MBH	Boiler H.P.	(Dia)	OIL	GAS	OIL	GAS
	488R ¹⁰	6.9	996	827	620	2,583	719	24.7	10 in.	87.5	84.8	85.6	83.1
natilitys	488®	7.0	1,010	839	629	2,621	730	25.1	10 in.	87,5	84.8	85.6	83.1
	588®	9.4	1,356	1,126	845	3,521	979	33.6	10 in.	87.0	84.4	85.6	83.1
	688*	11.8	1,701	1,413	1,072	4,469	1,229	42.2	10 in.	86.7	84.1	85.6	83.1
	788®	14.2	2,046	1,700	1,311	5,463	1,478	50.8	12 in.	86.5	83.9	85.6	83.1
	888®	16.6	2,382	1,987	1,543	6,427	1,728	59.4	12 in.	86.3	83.7	85.6	83.1
	988R®	17.2	2,482	2,062	1,601	6,671	1,793	61.6	14 in.	86.2	83.7	85.6	83.1
	988*	18.8	2,737	2,274	1,766	7,358	1,977	67.9	14 in.	86.2	83.7	85.6	83.1
	1088R®	20.0	2,887	2,399	1,863	7,763	2,086	71.7	14 in.	86.2	83.6	85.6	83.1
	1088°	21.5	3,082	2,561	1,988	8,283	2,227	76.5	14 in.	86.2	83.6	85.6	83.1
	1188*	23.5	3,428	2,848	2,211	9,213	2,477	85.1	14 in.	86.1	83.5	85.7	83.1
	1288®	26.0	3,773	3,135	2,434	10,147	2,726	93.7	14 in.	86.0	83.5	85.7	83.1
	1388°	28.5	4,119	3,422	2,657	11,071	2,976	102.2	14 in.	86.0	84.4	85.7	83.1
	1488*	31.0	4,464	3,709	2,880	12,000	3,225	110.8	16 in.	86.0	83.4	85.7	83.1
	1588	33.0	4,809	3,996	3,102	12,925	3,475	119.4	16 in.	85.9	83.3	85.7	83.1
	1688R	34.5	4,979	4,137	3,212	13,383	3,597	123.6	16 in.	85.9	83.3	85.7	83.1
	1688 ^e	35.5	5,155	4,283	3,325	13,854	3,724	127.9	16 in.	85.9	83.3	85.7	83.1
	1788®	38.0	5,494	4,570	3,548	14,783	3,974	136.5	18 in."	85.9	83.3	85.7	83.1
	1888**	40.5	5,845	4,857	3,771	15,713	4,123	145.1	18 in.*	85.9	83.3	85.7	83.1

- With 0.00" WC positive pressure at flue collar.

 788 1.300; 888 1.289; and 988 through 1888

 Consult Burner Specification Sheets for gas pressure required.

 Gross I=B=R ratings have been determined under the I=B=R provision governing forced draft boiler-burner units:

 *Flue collar connection is oval, 16 1/8" x 19 7/8"
- Burner input based on maximum of 2,000 ft, altitude for higher attitudes consult Weil-McLain* representative.

 No.2 Fuel oil Commercial Standard Spec. CS75-56. Heat value of oil 140,000 BTU/G.

 Stack gas volume at outlet temperature
 With 0,10° WC positive pressure at flue collar.

 Consult Burner Specification Sheets for gas pressure required.

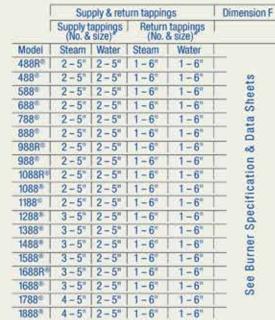
 Consult Burner Specification Sheets for gas pressure required.

 Stack gas volume at outlet temperature
 All of the presentative of 15. Steam ratings are based on the following allowances: 488 and 588 1333; 688 1323; 788 1300; 888 1289; and 988 through 1888 1288. An additional allowance should be made for gravity hot water systems or for unusual piping and pick-up loads. Consult Weil-McLaim* representative.



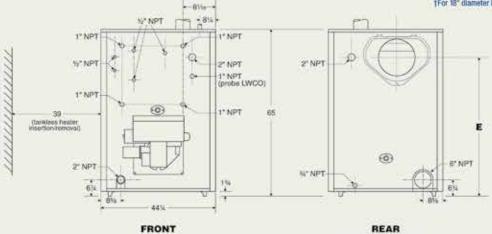
Model	A	В	C	D	I E	L	W	H
488 ^a	23	-		10	54 %	34 %	30	23 %
588*	31	- T	1 to 0	10	54%	42 %	38	31 %
688®	39	-	- 1	10	54 ¾	50 %	46	39 %
788®	47		-	12	53 %	58 %	54	47 1/1
888	55	¥	100	12	53 %	66 34	62	55 %
988	63	-		14	52 %	74 34	70	63 %
1088®	71	-		14	52 %	82 %	78	71 %
1188*	79	-	- 1	14	52 %	90 %	86	79 N
1288®	87	39 1/2	- 1	14	52 %	98 ¾	94	87 1
1388®	95	47 1/2	14	14	52 34	106 ¾	102	95%
1488®	103	55 1/2	-	16	51 %	114 3/4	110	103 %
1588®	111	63 1/2	H .	16	51 %	122 ¾	118	111 -la
1688°	119	47 1/2	-	16	51 %	130 %	126	119 %
1788*	127	31 1/2	79 1/2	181	51 ¾	138 ¾	134	127 3
1888®	135	39 1/2	87 1/2	181	51 %	146 %	142	135 %

†For 18" diameter breaching, flue collar is oval (191/4 x 161/4")



[&]quot;Use recommended piping connections

[†]For 18" diameter breaching, flue collar is oval (191/1 x 161/11")



Model	Porced Draft.	Balanced Draft	
488°	10	12	10 round
5881	10	15	10 round
6881	12	15	10 round
7881	12	13	12 round
8881	14	18	12 round
9881	14	18	14 round
1088*	34:	21	14 round
118811	16	21	14 round
1288"	16	:21	14 round
1388°	16	24	14 round
14881	18	24	16 round
1588*	18	24	16 mind
1688	18	24	16 round
1788*	18	24	16 1/8 x 19 7/8 oval
1888*	20	27	16 1/8 x 19 7/8 oval

I=B=R Vent or Liner Dia (in) Boiler Flue Collar

Dimensions (in)

