



COVERS REMOVED





# Outdoor 125 PSI Water Heating Boilers Models & Ratings / Atmospheric Fired

## STACK / DRAFT REQUIREMENTS

- UL listed for use with Type B Vent when power burner is for natural or L.P. gas fired only.
- Type 316 stainless steel lined stack is required when equipped with #2 oil or combination gas & #2 oil burner.
- Recommended stack height for natural or L.P. gas fired burners is 6 feet
- Recommended stack height for #2 oil or combination gas & #2 oil fired boilers is 10-12 ft.
- The stack should be supported independently of the boiler
- A minimally restrictive rain cap with integral down draft protection (supplied by others) is required.
- Proper draft range is between -.05" to -.09" water column.

## AIR REQUIREMENTS

- Adequate Combustion/Ventilation Air is vital for safe, efficient operation. Refer to the latest edition of the Uniform Mechanical Code or consult your local Building and Safety Department for specific requirements.

## ELECTRICAL REQUIREMENTS

- A Single Point 120/60/1 8 amp supply to the electrical panel

## NATURAL GAS SUPPLY REQUIREMENTS

- 7-14" water column. (Boilers can be customized to accept a larger gas supply pressure)

## #2 OIL SUPPLY REQUIREMENT

- Supply to oil pump: minimum gravity flow to maximum 3 psi.

## WATER TEMPERATURES & PRESSURE DROPS

- Minimum return water temperature is 135° F (after start-up). Lower temperature return factory options available.
- Maximum practical supply water temperature is 235° F. Higher temperature/pressure Rite Boilers are available (Section I Boilers).
- Pressure drop for all models is less than 3 feet of total head.

## ELEVATION DERATION

- Ratings given below are for elevations up to 2000 feet. Ratings should be reduced at the rate of 4% for every 1000 feet above 2000 feet.

## B.T.U. FORMULA

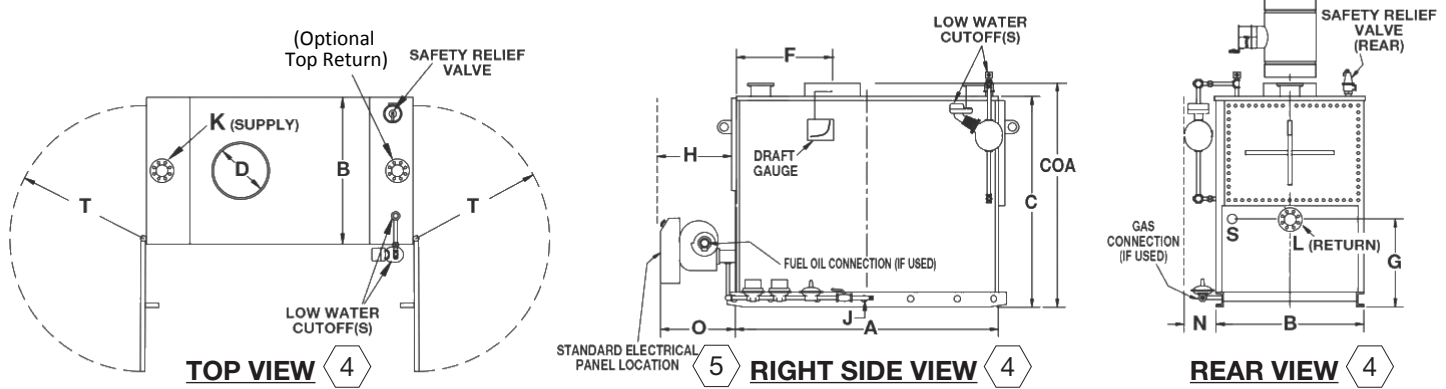
- BTU Output @ 0-2000' elevation = 60 x 8.3 x T x G.P.M.

BOILER MODEL	Input MBH	Nominal Output		E.D.R.	Heating Surface Sq. Ft.	Water Content Gallons	G.P.M. 20° F Rise	G.P.H. 100° F Rise	Nominal Shipping Weight (lbs)
		MBH	Boiler Horsepower						
W48 W *	480	384	11	2400	49	21	38	465	900
W55 W *	550	440	13	2750	56	23	44	535	1000
W63 W *	630	506	15	3162	63	24	51	615	1100
W76 W *	760	608	18	3800	75	27	61	740	1300
W85 W *	850	680	20	4250	88	40	69	930	2100
W90 W *	900	720	21	4500	88	40	72	875	2100
W105 W *	1050	840	25	5250	101	43	84	1015	2250
W120 W *	1200	960	28	6000	115	47	97	1165	2400
W135 W *	1350	1080	32	6750	131	50	110	1315	2550
W150 W *	1500	1200	35	7500	145	54	120	1460	2700
W165 W *	1650	1320	39	8250	159	57	135	1600	2850
W180 W *	1800	1440	43	9000	174	61	145	1750	3000
W200 W *	2000	1600	47	10000	192	66	160	1950	3250
WA150 W *	1500	1200	35	7500	160	71	120	1460	2700
WA165 W *	1650	1320	39	8250	168	75	135	1600	2950
WA180 W *	1800	1440	43	9000	190	79	145	1750	3275
WA200 W *	2000	1600	47	10000	205	83	160	1950	3525
W225 W *	2250	1800	53	11250	230	89	180	2190	3775
W250 W *	2500	2000	59	12500	252	94	200	2430	4100
W275 W *	2750	2200	65	13750	273	100	220	2670	4425
W300 W *	3000	2400	71	15000	295	105	240	2920	4750
W325 W *	3250	2600	77	16250	318	111	265	3160	5075
W350 W *	3500	2800	83	17500	340	116	285	3400	5400
W375 W *	3750	3000	89	18750	362	122	305	3650	5725
W400 W *	4000	3200	95	20000	383	127	325	3900	6600
W425 W *	4250	3400	101	21250	405	133	345	4140	7000
W450 W *	4500	3600	107	22500	428	139	365	4380	7350
W475 W *	4750	3800	113	23750	450	145	385	4630	7700
W500 W *	5000	4000	119	25000	473	151	405	4870	8100
W550 W *	5500	4400	131	27500	526	190	445	5370	8800
W600 W *	6000	4800	143	30000	574	213	485	5850	9500
WA650 W *	6500	5200	155	32500	622	240	520	6250	10300
WA700 W *	7000	5600	167	35000	670	255	560	6720	11000
WA750 W *	7500	6000	180	37500	722	270	600	7200	11700
WA400 W *	4000	3200	95	20000	390	160	325	3900	6800
WA450 W *	4500	3600	107	22500	440	180	365	4380	7400
WA500 W *	5000	4000	119	25000	486	195	405	4870	8000
WA550 W *	5500	4400	131	27500	535	215	445	5370	8500
WA600 W *	6000	4800	143	30000	584	235	485	5850	9000
W650 W *	6500	5200	155	32500	632	250	520	6250	9600
W700 W *	7000	5600	167	35000	680	275	560	6720	10100
W750 W *	7500	6000	180	37500	730	290	600	7200	10700
W840 W *	8400	6700	200	41875	800	320	650	7800	15500
W940 W *	9400	7500	225	46875	900	345	770	9270	16250
W1050 W *	10500	8400	250	52500	1000	370	810	9740	17000
W1150 W *	11500	9200	275	57500	1100	395	925	11000	17750
W1250 W *	12499	9999	300	62494	1200	420	1005	12100	18500

\* Add **G** for natural gas or propane, **O** for #2 oil or **GO** for combination gas & #2 oil.



# Outdoor 125 PSI Water Heating Boilers Models & Dimensions / Atmospheric Fired



- DIMENSIONS ARE IN INCHES - SUBJECT TO PRODUCTION TOLERANCES AND CHANGE WITHOUT NOTICE. CERTIFIED DIMENSIONS AVAILABLE UPON REQUEST.
- BOILERS APPROVED FOR INSTALLATION ON NON-COMBUSTIBLE FLOORS ONLY.

- ② May vary - sizes shown are for UL gas trains at standard supply pressures. Gas connections can be male or female NPT. All other threaded connections are female NPT, except where noted.
- ③ Flanges are ANSI 150 lb SA-105 flat face.
- ④ Standard right hand construction shown illustrated above. Left hand construction available at no extra charge.
- ⑤ Models 48-375 have **hinged burner doors** - **Do Not** stub electrical conduit up in front of door or run rigid conduit direct to the panel as this will prevent access to the combustion chamber.

BOILER MODEL	A	B	C	COA	D	F	G	H	J	K	L	N	O	S	T
	Length Jacket	Width Jacket	Height Flush	Height Overall	Stack Dia.	Stack Conn.		Tube Maint.	Gas Conn.	Water Supply	Water Return	Side Space	Power Burner	Drain	Head Swing
W48 W*	40	33	54	58	10	15	32	40	3/4	2 MNPT	2 MNPT	10	26	1	20
W55 W*	45	33	54	58	10	16	32	45	1	2 MNPT	2 MNPT	10	26	1	20
W63 W*	50	33	54	58	10	18	32	50	1	2 MNPT	2 MNPT	10	26	1	20
W76 W*	58	33	54	58	12	20	32	58	1	2 MNPT	2 MNPT	10	26	1	20
W85 W*	46	39	68	72	12	18	39	46	1	3 FL	3 FL	12	26	1 1/4	26
W90 W*	46	39	68	72	12	18	39	46	1	3 FL	3 FL	12	26	1 1/4	26
W105 W*	52	39	68	72	12	20	39	52	1	3 FL	3 FL	12	26	1 1/4	26
W120 W*	58	39	68	72	14	22	39	58	1 1/4	3 FL	3 FL	12	31	1 1/4	26
W135 W*	64	39	68	72	14	24	39	64	1 1/4	3 FL	3 FL	12	31	1 1/4	26
W150 W*	70	39	68	72	16	26	39	70	1 1/4	3 FL	3 FL	12	31	1 1/4	26
W165 W*	76	39	68	72	16	28	39	76	1 1/4	3 FL	3 FL	12	31	1 1/4	26
W180 W*	82	39	68	72	16	30	39	82	1 1/4	3 FL	3 FL	12	31	1 1/4	26
W200 W*	90	39	68	72	18	33	39	90	1 1/2	3 FL	3 FL	12	31	1 1/4	26
WA150 W*	55	46	72	76	16	20	40	55	1 1/4	4 FL	4 FL	14	31	1 1/2	34
WA165 W*	59	46	72	76	16	21	40	59	1 1/2	4 FL	4 FL	14	31	1 1/2	34
WA180 W*	65	46	72	76	16	22	40	65	1 1/2	4 FL	4 FL	14	31	1 1/2	34
WA200 W*	69	46	72	76	18	23	40	69	1 1/2	4 FL	4 FL	14	31	1 1/2	34
W225 W*	73	46	72	76	18	25	40	73	1 1/2	4 FL	4 FL	16	31	1 1/2	34
W250 W*	79	46	72	76	20	27	40	79	2	4 FL	4 FL	16	35	1 1/2	34
W275 W*	85	46	72	76	20	29	40	85	2	4 FL	4 FL	16	35	1 1/2	34
W300 W*	91	46	72	76	20	31	40	91	2	4 FL	4 FL	16	35	1 1/2	34
W325 W*	97	46	72	76	22	33	40	97	2	4 FL	4 FL	16	35	1 1/2	34
W350 W*	103	46	72	76	22	35	40	103	2	4 FL	4 FL	16	35	1 1/2	34
W375 W*	109	46	72	76	22	35	46	109	2	4 FL	4 FL	16	35	1 1/2	34
W400 W*	82	57	83	87	24	28	46	82	2	4 FL	4 FL	16	35	2	44
W425 W*	87	57	83	87	24	28	46	87	2	4 FL	4 FL	16	35	2	44
W450 W*	91	57	83	87	26	31	46	91	2	4 FL	4 FL	16	35	2	44
W475 W*	95	57	83	87	26	31	46	95	2	4 FL	4 FL	16	35	2	44
W500 W*	100	57	83	87	26	34	46	100	2	4 FL	4 FL	16	35	2	44
W550 W*	109	57	83	87	28	37	46	109	2 1/2	4 FL	4 FL	16	35	2	44
W600 W*	118	57	83	87	28	40	46	118	2 1/2	4 FL	4 FL	16	35	2	44
WA650 W*	129	57	83	87	28	45	46	129	2 1/2	5 FL	5 FL	16	35	2	44
WA700 W*	138	57	83	87	28	48	46	138	2 1/2	5 FL	5 FL	16	35	2	44
WA750 W*	147	57	83	87	30	51	46	147	2 1/2	5 FL	5 FL	16	35	2	44
WA400 W*	79	67	83	87	22	29	46	79	2	4 FL	4 FL	16	35	2	56
WA450 W*	87	67	83	87	24	32	46	87	2	4 FL	4 FL	16	35	2	56
WA500 W*	95	67	83	87	26	34	46	95	2	4 FL	4 FL	16	35	2	56
WA550 W*	102	67	83	87	26	37	46	102	2 1/2	4 FL	4 FL	16	35	2	56
WA600 W*	109	67	83	87	28	39	46	109	2 1/2	4 FL	4 FL	16	35	2	56
W650 W*	117	67	83	87	28	42	46	117	2 1/2	5 FL	5 FL	16	35	2	56
W700 W*	124	67	83	87	28	44	46	124	2 1/2	5 FL	5 FL	16	35	2	56
W750 W*	132	67	83	87	30	47	46	132	2 1/2	5 FL	5 FL	16	35	2	56
W840 W*	116	82	91	95	30	43	54	116	2 1/2	6 FL	6 FL	18	42	2	69
W940 W*	128	82	91	95	32	47	54	128	2 1/2	6 FL	6 FL	18	42	2	69
W1050 W*	140	82	91	95	34	51	54	140	2 1/2	6 FL	6 FL	18	42	2	69
W1150 W*	152	82	91	95	36	55	54	152	2 1/2	6 FL	6 FL	18	42	2	69
W1250 W*	164	82	91	95	36	59	54	164	2 1/2	6 FL	6 FL	18	42	2	69

\* Add **G** for natural gas or propane, **O** for #2 oil or **GO** for combination gas & #2 oil.