

Boilers (Gas Fired)

THE BRYANT HEATER & MFG. COMPANY

Factory, 952 E. 72nd St.

CLEVELAND, OHIO

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1116 Lexington Bldg.
BIRMINGHAM, Ala.,
American Trust Bldg.
BOSTON, Mass.,
126 High St.

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353 Atlantic Ave.
BUFFALO, N. Y.,
610 Erie County Bank Bldg.
CANTON, Ohio,
415 Daily News Bldg.
CHICAGO, Ill.,
218 South Wabash Ave.



Branches in Principal Cities

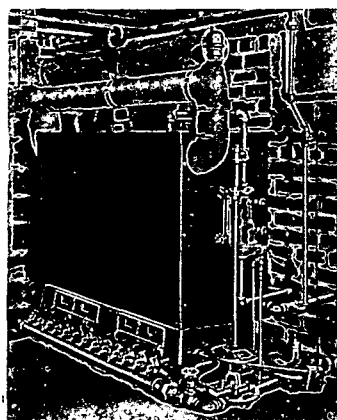
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1454 East 17th St.
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TOLEDO, Ohio,
405 Nicholas Bldg.
WICHITA, Kans.,
302 Orpheum Bldg.

Bryant Gas Boiler for Hot Water, Steam or Vapor Heating
Bryant Hot Water Storage Systems Bryant Hot Water Steam Generators

BRYANT GAS BOILER



General Description of Boiler

Sectional design with an individual burner for each section. Automatic regulating and control devices.

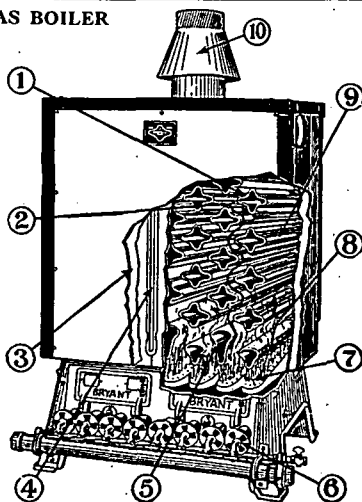
Cast iron construction with heavy base which serves as foundation.

Liberal proportioned tubes—staggered for long gas travel. Tubes are easily accessible for cleaning.

Large steam liberating space, which insures a steady water line.

Bryant Engineers

Bryant representatives travel the entire country in an endeavor to give whole-hearted co-operation and service. Complete information can be secured from any of the offices listed above.



- 1—Water Tubes of original and exclusive design; of large area, with thin walls which quickly transmit the heat to the water. The pitch of these tubes facilitates natural circulation.
 - 2—Staggered Tubes afford long gas travel.
 - 3—Metal jacketed cover, with asbestos Cell insulation, effectively retards radiation of heat into basement. Plastic asbestos may be used if desired, however.
 - 4—Tubes, easily accessible for cleaning. This is unnecessary, except under unusual gas conditions.
 - 5—Special Shape of Lower Tubes prevents reflection and aids heat in quickly reaching water tubes above.
 - 6—Large Adjustable Mixers, equipped with sturdy and convenient T-handle valves.
 - 7—Scientifically Designed Burners with drilled ports. Fuel supplied by Venturi mixing tubes. Both may be easily removed.
 - 8—An individual Burner for each Section. Correct proportioning of gas consumption to heating surface; 1800 sq. in. of heating surface per boiler horse power.
 - 9—Baffle Plates, on end castings, direct hot gases against water tubes.
 - 10—Draft Hood regulates draft and eliminates hazard from accidentally stopped flue.
- Iron Sections, assembled with cast iron nipples and secured by tie rods, give water-tight connections that are not affected by expansion, contraction, or gases.

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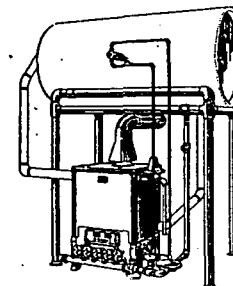
Ratings and Dimensions of Bryant Gas Boilers

Steam Boiler No.	Rating	Water Boiler No.	Rating	Dimensions, Inches											
				A	B	C	D	E	F	G	H	J	K	L	
3-S-2	200	3-C-2	320	47	5	15 1/2	28 1/2	29	29 1/2	22	12 1/2	2	18	13 1/2	
4-S-2	265	4-C-2	425	47	5	18 1/2	31 1/2	29	29 1/2	22	12 1/2	2	18	13 1/2	
5-S-2	335	5-C-2	535	47	5	21 1/2	34 1/2	29	29 1/2	22	12 1/2	2	18	13 1/2	
3-S-3	400	3-C-3	640	65	5	17 1/2	30 1/2	37	46	36	15 1/2	3	26 1/2	21 1/2	
4-S-3	560	4-C-3	895	66	6	20 1/2	33 1/2	37	46	36	15 1/2	3	26 1/2	21 1/2	
5-S-3	720	5-C-3	1150	66	6	23 1/2	37 1/2	37	46	36	15 1/2	3	26 1/2	21 1/2	
6-S-3	880	6-C-3	1410	66	6	26 1/2	41 1/2	37	46	36	15 1/2	3	26 1/2	21 1/2	
7-S-3	1040	7-C-3	1665	67	7	29 1/2	44 1/2	37	46	36	15 1/2	3	26 1/2	21 1/2	
8-S-3	1200	8-C-3	1920	67	7	33	47 1/2	37	46	36	15 1/2	3	26 1/2	21 1/2	
9-S-4	1500	9-C-4	2400	66 1/2	8	40 1/2	54 1/2	37	47 1/2	37	15 1/2	4	26 1/2	21 1/2	
11-S-4	1880	11-C-4	3010	67	8	47 1/2	63 1/2	37 1/2	47 1/2	37	15 1/2	4	26 1/2	21 1/2	
13-S-4	2260	13-C-4	3620	67	8	54 1/2	70 1/2	37 1/2	47 1/2	37	15 1/2	4	26 1/2	21 1/2	
15-S-4	2640	15-C-4	4220	67 1/2	9	61 1/2	77 1/2	37 1/2	47 1/2	37	15 1/2	4	26 1/2	21 1/2	
17-S-4	3020	17-C-4	4830	67 1/2	9	69 1/2	86	37 1/2	47 1/2	37	15 1/2	4	26 1/2	21 1/2	
19-S-4	3400	19-C-4	5440	67 1/2	9	76 1/2	93 1/2	37 1/2	47 1/2	37	15 1/2	4	26 1/2	21 1/2	
21-S-4	3780	21-C-4	6050	67 1/2	9	83 1/2	100 1/2	37 1/2	47 1/2	37	15 1/2	4	26 1/2	21 1/2	
23-S-4	4160	23-C-4	6660	68	10	90 1/2	107 1/2	37 1/2	47 1/2	37	15 1/2	4	26 1/2	21 1/2	
25-S-4	4540	25-C-4	7260	68	10	98 1/2	115	37 1/2	47 1/2	37	15 1/2	4	26 1/2	21 1/2	
27-S-4	4920	27-C-4	7870	68 1/2	11	105 1/2	122 1/2	37 1/2	47 1/2	37	15 1/2	4	26 1/2	21 1/2	
29-S-4	5300	29-C-4	8480	68 1/2	11	112 1/2	129 1/2	37 1/2	47 1/2	37	15 1/2	4	26 1/2	21 1/2	
31-S-4	5680	31-C-4	9090	68 1/2	11	119 1/2	136 1/2	37 1/2	47 1/2	37	15 1/2	4	26 1/2	21 1/2	
33-S-4	6060	33-C-4	9700	68 1/2	11	127 1/2	144	37 1/2	47 1/2	37	15 1/2	4	26 1/2	21 1/2	
35-S-4	6440	35-C-4	10300	68 1/2	11	134 1/2	151 1/2	37 1/2	47 1/2	37	15 1/2	4	26 1/2	21 1/2	
37-S-4	6820	37-C-4	10910	69	12	141 1/2	158 1/2	37 1/2	47 1/2	37	15 1/2	4	26 1/2	21 1/2	
39-S-4	7200	39-C-4	11520	69	12	148 1/2	165 1/2	37 1/2	47 1/2	37	15 1/2	4	26 1/2	21 1/2	
41-S-4	7580	41-C-4	12130	69	12	156 1/2	173	37 1/2	47 1/2	37	15 1/2	4	26 1/2	21 1/2	

BRYANT HOT WATER STORAGE SYSTEMS

Capacities of Bryant Hot Water Storage Systems

Boiler P. H.	Available B. Per Hour	Boiler No.	Capacity, in gallons per hour raised		
			60°	100°	140°
1.3	45,000	3-A-2	94	54	39
1.8	60,500	4-A-2	126	72	52
2.2	75,500	5-A-2	157	90	65
2.7	90,500	3-A-3	185	110	80
3.6	120,500	4-A-3	240	145	105
4.5	151,000	5-A-3	300	180	130
5.4	181,000	6-A-3	360	215	155
6.3	211,000	7-A-3	420	250	180
7.2	241,500	8-A-3	480	290	205
9	305,000	9-A-4	610	370	260
11	372,000	11-A-4	735	450	320
13	439,000	13-A-4	860	530	380
15	506,000	15-A-4	1020	610	435
17	573,000	17-A-4	1150	690	485
19	640,000	19-A-4	1280	770	550
21	707,000	21-A-4	1410	850	605
23	774,000	23-A-4	1540	930	660
25	840,000	25-A-4	1680	1010	720
27	908,000	27-A-4	1820	1090	775
29	975,000	29-A-4	1940	1170	835
31	1,041,000	31-A-4	2080	1250	890
33	1,109,000	33-A-4	2220	1330	950
35	1,176,000	35-A-4	2350	1410	1005
37	1,242,000	37-A-4	2480	1490	1060
39	1,310,000	39-A-4	2620	1570	1120
41	1,377,000	41-A-4	2750	1650	1180



General Description of Hot Water Storage System

Designed and built for supplying large quantities of hot water at an instant's notice. Boiler is automatically controlled to maintain a full tank of hot water at all times. Ample capacity for peak loads or sustained heavy demand.

