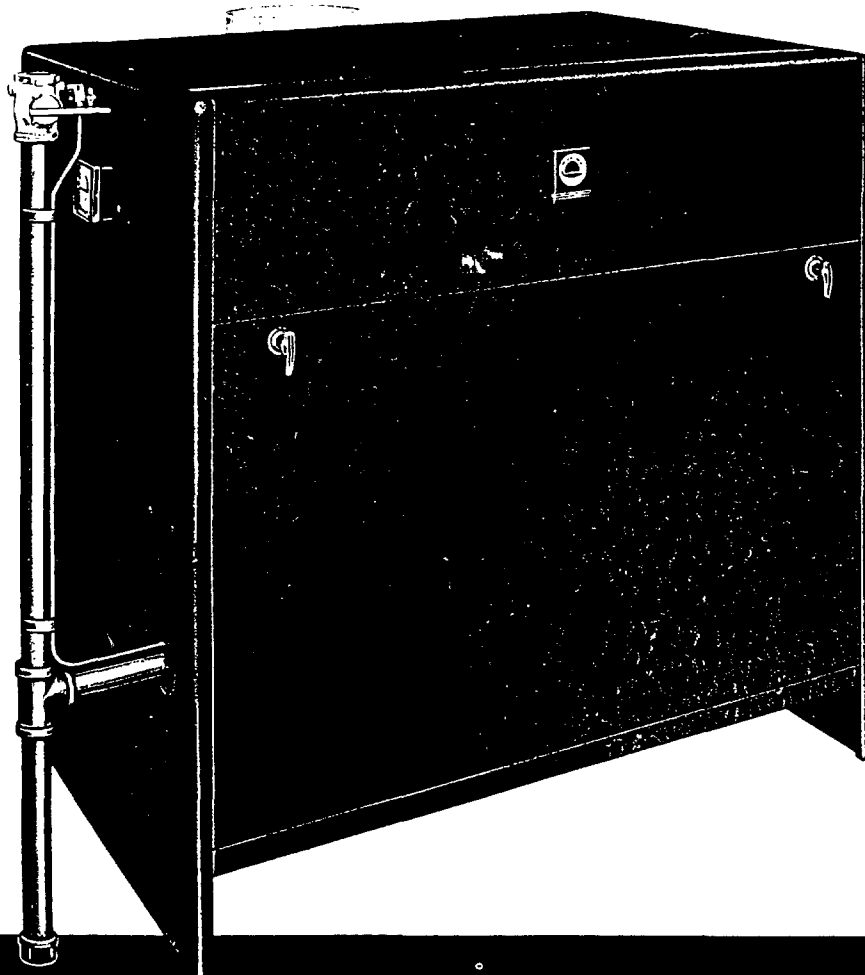




AMERICAN-Standard G-4

automatic gas fired boilers

AMERICAN-Standard

hot water heat

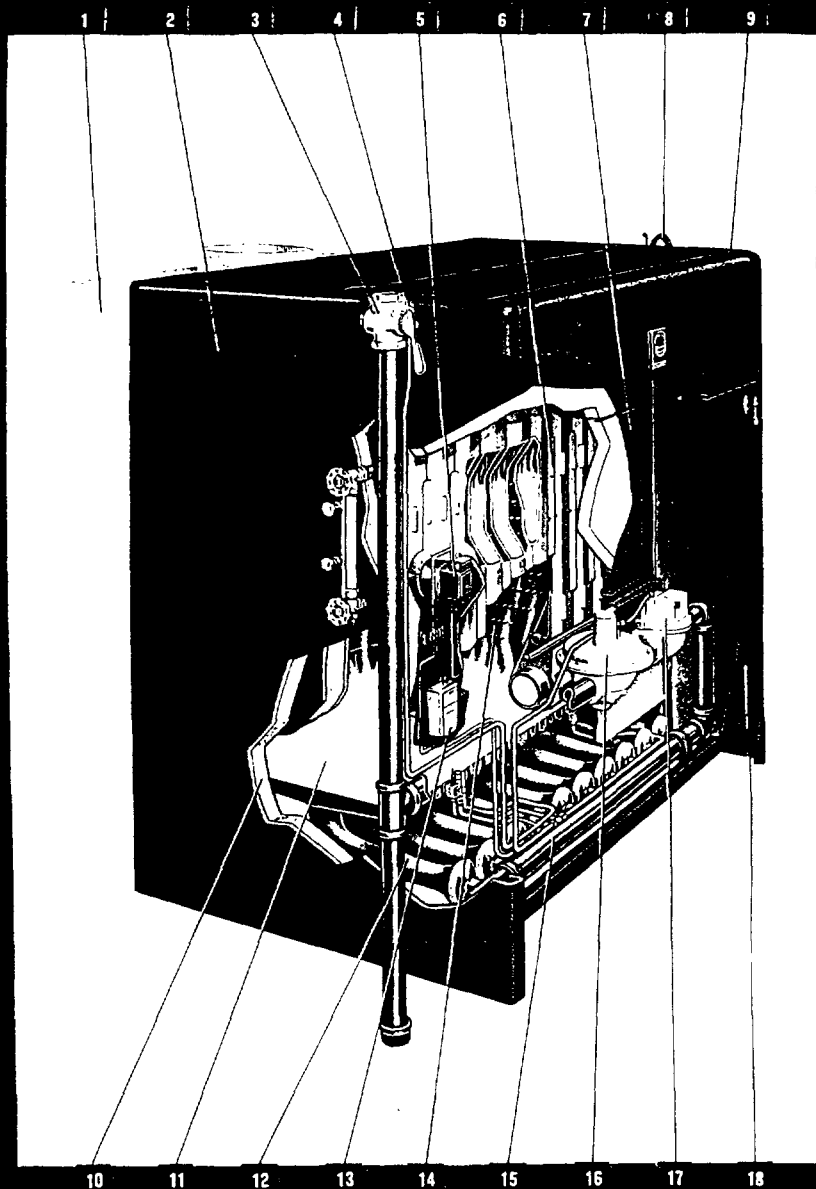


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new

G-4 gas boilers by AMERICAN

- 1 **integral drafthood**—prevents excessive chimney updrafts or downdrafts from affecting proper combustion. Located at rear of jacket enclosure, giving G-4 a low, overall height of only 47½".
- 2 **jacket**—encloses flue canopy, manifold and controls. Heavy, 20-gauge steel jacket styled with small radius corners and sprayed with distinctive Forge Red hammer finish.
- 3 **manual shutoff valve**—controls main gas supply to burners.
- 4 **pilot filter**—prevents dirt, gum or other foreign matter from clogging pilot tube or pilot. (Not supplied for LP-gas.)
- 5 **resetting low water cutoff**—on steam boilers; electrically shuts off main gas supply to burners if boiler water reaches low point. Located within jacket enclosure.
- 6 **cleanout plates**—provide ready access for cleaning boiler flue surfaces. Entire boiler may be cleaned from the front.
- 7 **cleanout access panel**—quickly snaps on and off to allow access to boiler sections without removing jacket.
- 8 **safety valve**—prevents steam pressure from exceeding maximum safety requirements. Supplied as regular equipment on all steam boilers.
- 9 **vestibule vent**—permits unrestricted air circulation around controls located in front vestibule of boiler jacket.
- 10 **insulation**—heavy layer of fiberglass insulation effectively prevents excessive heat loss through jacket—helps save fuel and keeps jacket cool to touch. Insulation cemented permanently to inside of boiler jacket at factory.
- 11 **burners**—precision made and factory tested to assure quiet, efficient operation with all gases. Cast iron, raised rib, drilled port burners supplied for natural gas. Cleanable ribbon burners standard equipment for all other gases.
- 12 **venturi mixer tube**—equipped with adjustable air shutter—provides correct gas-air mixture for efficient combustion.
- 13 **automatic pilot switch**—prevents flow of gas to main burners if pilot goes out. Special control for 100% shut-off supplied for LP-Gas and LP-Gas Air mixtures (525-1400 Btu).
- 14 **sections**—constructed of long-lasting cast iron. Over 600 pinlike projections stud each flue surface to extract maximum heat from rising flue gases. End sections designed with extended base to form supporting legs of boiler.
- 15 **manifold**—completely factory assembled and rigidly fastened to boiler by cast iron clamps. Entire manifold enclosed by boiler jacket.
- 16 **gas pressure regulator**—maintains uniform gas pressure to main burners. Gas pressure regulator not required for LP-Gas.
- 17 **automatic gas valve**—automatic diaphragm type. Electrically operated and A.G.A. listed for all gases. Can be manually operated during current failures and automatically returns to electrical operation upon resumption of current.
- 18 **front jacket panel**—easily removed by turning chrome-plated handles. Permits access to burners, boiler sections and all controls within jacket. Carefully fitted to close flush with front

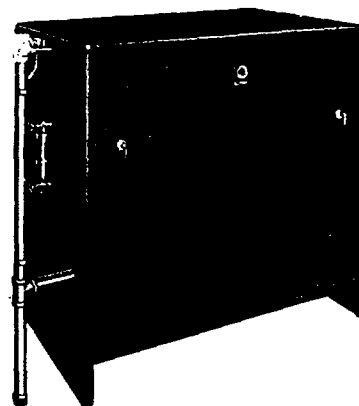


The American-Standard G-4 Boiler is approved by the American Gas Association for all gases and is constructed to the specifications of the American Society of Mechanical Engineers.

Standard for

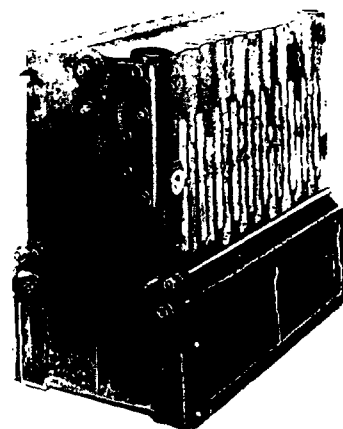
. . . automatic heating in all type buildings

Tops in design from its durable, gray cast iron sections to its modernly styled jacket, the new G-4 gas boiler by American-Standard is ideally suited for larger homes, apartments, schools, churches and smaller commercial establishments such as stores or restaurants. Only 47½" high, the G-4 takes up surprisingly little space. All major components and controls, including the gas manifold and pressure regulator, are located within the boiler jacket, thus presenting a clean, streamlined appearance. The jacket itself is styled with modern, small radius corners and sprayed with American-Standard's easy-to-clean Forge Red finish.



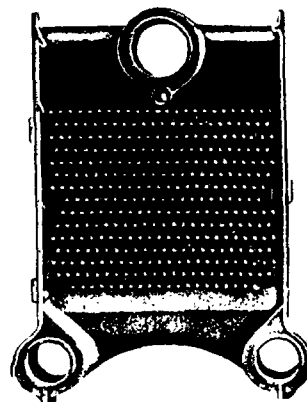
. . . simplicity of installation and service

Installation of the G-4 is simplified by extending the base of the end sections to form the legs of the boiler, eliminating the necessity of separate end or center supporting legs. The center boiler sections are merely suspended between the two end sections and secured with tie rods. And to protect the finish of the jacket, all steam or water piping can be installed before the jacket is assembled. For your convenience, both right and left end panels are identical for all G-4 boiler sizes. Whenever service is necessary, such as cleaning the flue surfaces, easily removed access panels facilitate maintenance. For example, by removing the cleanout access panel, all flue surfaces may be cleaned from the front of the boiler without removing the boiler jacket.

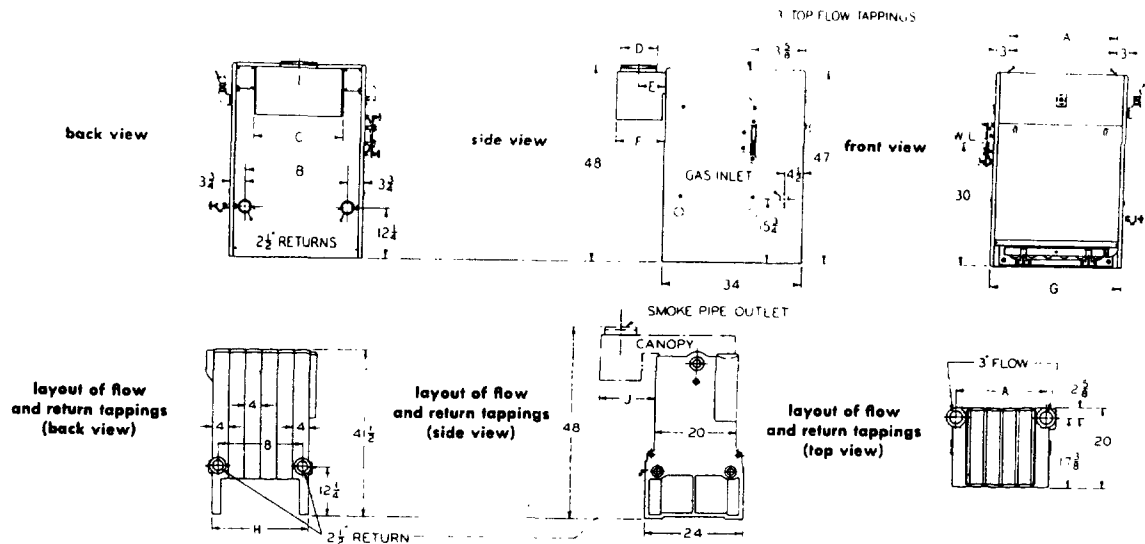


. . . generous heat—at low cost

Based on the design principle of multiple sections with a burner for each flue passage, G-4 boilers are available with A.C.A. inputs of 180,000 Btu to 600,000 Btu per hour. By simply varying the number of center sections, it is possible to size these boilers almost exactly to each heating requirement, eliminating the fuel waste and initial expense of an oversized boiler. Constructed of durable cast iron to ASME specifications, each boiler section features a pin-type extended surface to add many square inches of additional heat absorbing area to otherwise compact flue surfaces. Over 600 pinlike projections stud each center section to extract the greatest possible amount of heat from hot flue gases. And another outstanding feature of G-4 boilers is the number of flow and return tapings provided. Although normally one supply and one return tapping is sufficient for all G-4 boiler sizes, two 3" top flow tapings and two 2½" bottom return tapings are provided. Their use allows greater flexibility in designing system piping when the G-4 is installed in confined spaces.



dimensions (inches) and layout of flow and return tappings



Boiler Number	Number of Sections	Number of Burners	A	B	C	D	E	F	G	H	J
G-44	4	3	14½	13	9¾	6	5	8¾	20½	16	11¾
G-45	5	4	18½	17	13¾	7	5½	9¾	24½	20	12¾
G-46	6	5	22½	21	17¾	8	6	10¾	28½	24	13¾
G-47	7	6	26½	25	21¾	9	6½	11¾	32½	28	14¾
G-48	8	7	30½	29	25¾	9	6½	11¾	36½	32	14¾
G-49	9	8	34½	33	29¾	10	7	12¾	40½	36	15¾
G-410	10	9	38½	37	33¾	10	7	12¾	44½	40	15¾
G-411	11	10	42½	41	37¾	11	7½	13¾	48½	44	16¾

ratings for hot water and steam



Boiler Number	I-B-R Chimney Sizes		FOR INSTALLATIONS AT SEA LEVEL AND ELEVATIONS UP TO 2000 FT						FOR INSTALLATIONS AT ELEVATIONS OF 2000 FT TO 5000 FT*									
			A.G.A. Input Mbh Mfd, Nat, Mixed, LP-Gas, LP-Air Gas (525-1400 Btu)	A.G.A. Output Mbh Mfd, Nat, Mixed, LP-Gas, LP-Air Gas (525-1400 Btu)	Net I-B-R Rating†			A.G.A. Input Mbh		A.G.A. Output Mbh		Net I-B-R Rating†						
	Steam sq ft	Water			Mfd, Nat or Mixed Gas	LP-Gas, LP-Air Gas (525-1400 Btu)	Mfd, Nat or Mixed Gas	LP-Gas, LP-Air Gas (525-1400 Btu)	Mfd, Nat, Mixed Gas			LP-Gas, LP-Air Gas (525-1400 Btu)						
		Mbh							sq ft	Steam sq ft	Water		Steam sq ft	Water				
											Mbh	sq ft		Mbh	sq ft	Mbh	sq ft	
G-44	6	20	180	144	395	109	720	165	144	132	115.2	360	99	660	315	87	575	
G-45	7	20	240	192	530	144	960	220	192	176	153.6	485	132	880	420	115	770	
G-46	7	20	300	240	670	180	1200	275	240	220	192.0	610	165	1100	530	144	960	
G-47	8	20	360	288	810	216	1440	330	288	264	230.4	740	198	1320	640	173	1150	
G-48	8	20	420	336	955	253	1680	385	336	308	268.8	870	231	1540	755	202	1345	
G-49	9	20	480	384	1100	289	1920	440	384	352	307.2	1000	264	1760	865	230	1535	
G-410	9	20	540	432	1240	324	2160	495	432	396	345.6	1130	296	1980	980	259	1730	
G-411	10	20	600	480	1390	360	2400	550	480	440	384.0	1270	331	2200	1100	289	1920	

*For altitudes above 5000 ft, high altitude ratings should be reduced at the rate of 4% for each 1000 ft above 5000 ft

†The ratings of these boilers represent the maximum net loads that may be connected to the boilers. Allowances have been made for normal piping and pick up loads

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