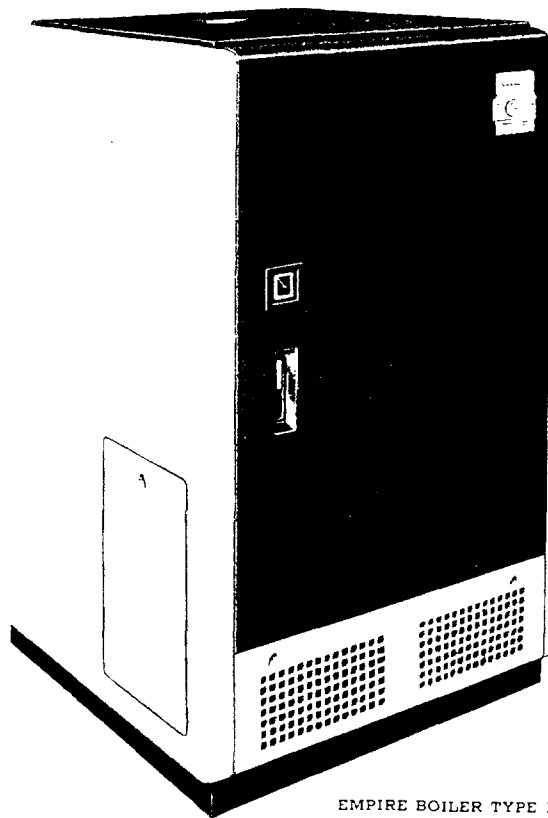


AMERICAN GAS BOILERS

EMPIRE AND STANDARD

TYPES 1-G-E AND 1-G

FOR STEAM AND HOT WATER



EMPIRE BOILER TYPE 1-G-E

AMERICAN
RADIATOR & **Standard**
Sanitary
CORPORATION

PLAINTIFF'S EXHIBIT

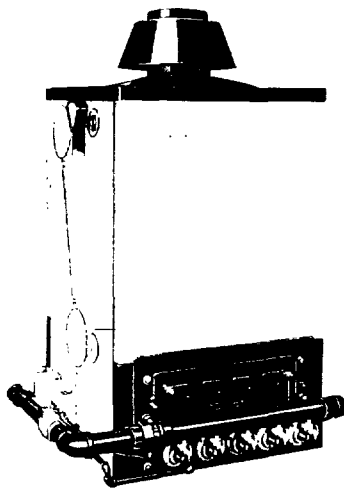
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EMPIRE and STANDARD GAS BOILERS

FOR EFFICIENCY AND BEAUTY

If you seek both beauty and efficiency, the Empire Gas Boiler (see front cover) is perfect. Its rich, colorful Jacket is finished in Canyon Two-Tone Red, suede texture. It is so handsome and beautiful it blends with the finest modern basement and appointments. All controls are concealed beneath the smart exterior, out of sight, out of the way, but available in an instant when necessary.

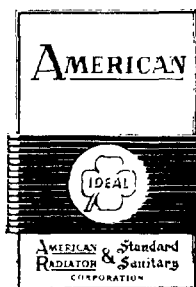


STANDARD BOILER TYPE 1-G

WHERE APPEARANCE IS SECONDARY

If you have a separate boiler room, or if appearances are unimportant the Standard Gas Boiler (see illustration above) will fill all requirements. For it is identical with the Empire except it does not include the all-over Canyon Two-Tone Red Jacket, and the controls are on the outside of the boiler.

Look for this Distinctive Name Plate



SCIENTIFIC DESIGN

American Gas Boilers have been designed by Gas heating experts. They embody the latest developments in the field. Specially designed for Gas operation only they get all the good out of every cubic foot of gas. Safe, sure and silent in operation they are designed for a lifetime of trouble-free, economical service.

THERMOTOR THROTTLING VALVE

This special Valve is controlled by the thermostat. It gradually reduces or increases gas flow to the burner to keep room temperature just right. It keeps gas consumption to a minimum, and combined with the thermostat eliminates the need for manual work to keep constant comfort in the house.

CAREFREE COMFORT

Both the Empire and Standard Gas Boilers offer you heating that's so automatic you don't even have to order fuel! The thermostat, the special Thermotor Throttling Valve and other quality controls guard the temperature you want with precision accuracy. Clean, quiet and odorless in operation, these Boilers have brought the blessing of automatic heating comfort to thousands of homes. They have won the lasting approval of homeowners.

HEAVY INSULATION

A thick layer of Air-Cell Asbestos Insulation prevents excess heat loss into the basement. This also aids in reducing operating costs and keeps the jacket cooler.

EASY TIME PAYMENTS

If you are modernizing, it is not necessary to pay for a new Empire or Standard Gas Boiler all at once. Easy time payments can be quickly and simply arranged. They can be planned so that monthly payments will be fully in accord with your budget — no matter how big or small.

SHORT FORM SPECIFICATIONS

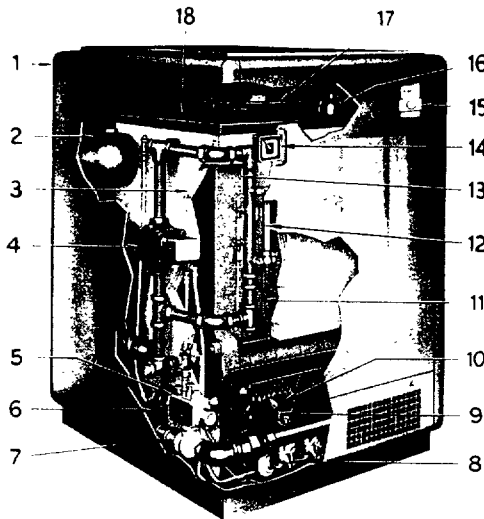
(For All Boilers)

In general the following form will be found adequate: "Furnish and install according to manufacturer's instructions, where shown on the plans a Type 1-G-? American Standard (or Empire) Steam (or Water) Gas Boiler with an A.G.A. output rating of _____ sq. ft. of radiation. The boiler shall be manufactured by the American Radiator & Standard Sanitary Corporation and shall be completely equipped with Type 10-MT Equipment consisting of _____ (list items of equipment as indicated on opposite page)

This may be supplemented with paragraphs governing installation of gas supply, piping, connections, tests, etc., as required.

EMPIRE BOILER CONSTRUCTION FEATURES

1. JACKET — handsomely finished in new Canyon Two-Tone Red — suede finish
2. STEAM FLOW — a correctly and specially designed steam supply line pipe fitting
3. THICK ASBESTOS AIR-CELL INSULATION effectively prevents excess heat loss from boiler.
4. LOW WATER CUT-OFF — on steam boiler only. Completely shuts off gas supply to main burners if water line reaches a low point
5. THERMOTOR THROTTLING VALVE — operated from the room thermostat. Completely shuts off supply of gas to main burners when desired room temperature has been obtained. All control functions centered in one valve. A throttling valve embodying mechanical limit control
6. STEAM PRESSURE OR WATER TEMPERATURE REGULATION — controls supply of gas to burners according to predetermined steam pressure or water temperature
7. GAS SUPPLY LINE — ample size, permits unrestricted supply of gas. Gas Pressure Governor included, mounted outside jacket at rear
8. BURNER COCK — specially designed to permit smooth flow of gas with minimum friction
9. THERMOSTATIC PILOT — protected from moisture or dirt. Keeps gas supply valve closed unless pilot is burning

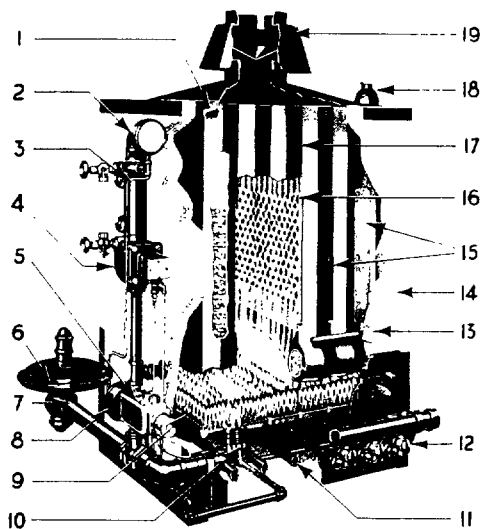


Cutaway View

10. QUIET BURNERS — raised drilled ports. Blue flame burner. Quiet in operation.
11. CLEAN-OUT OPENING — provides easy access for cleaning flue surfaces of sections
12. WATER COLUMN — on steam boilers only. Artistically framed within jacket giving protection against breakage and adding to the beauty of the gas boiler.
13. METAL-TO-METAL JOINT — ground, gas-tight. No cement or putty used. Patented pin type cast iron section. The most effective type of cast iron heat-absorbing surface. Rapidly and efficiently absorbs the heat from the rising columns of hot gases, transferring heat to water within boiler
14. COMPOUND PRESSURE AND VACUUM GAUGE — on steam boiler. On water boiler, combination altitude gauge and thermometer located here
15. DISTINCTIVE NAME PLATE — "AMERICAN", the best known name in heating
16. POP SAFETY VALVE — A S M E standard. Fully enclosed in jacket.
17. DRAFT HOOD — fully enclosed. Acid-proof vitreous enamel on ARMCO iron. Prevents either excessive drafts or down-drafts from affecting proper combustion.
18. CANOPY — acid-proof vitreous enamel on ARMCO iron set in putty-filled groove forming gas-tight joint.

STANDARD BOILER CONSTRUCTION FEATURES

1. CANOPY — acid-proof vitreous enamel on ARMCO iron, set in putty-filled groove forming perfect gas-tight joint
2. COMPOUND PRESSURE AND VACUUM GAUGE — Steam: On water boiler, combination altitude gauge and thermometer located here
3. STEAM CONNECTION — leads from steam dome of boiler to diaphragm of main throttling valve
4. RESETTING LOW WATER CUT-OFF — completely shuts off supply of gas to main burners if the water line on steam boiler reaches a low point
5. GAS VALVE — electrically operated from room thermostat. Steam Pressure or Water Temperature throttles gas flow to maintain required conditions. Upper limit and manual control also embodied in same valve
6. GAS PRESSURE GOVERNOR — maintains gas pressure at a fixed maximum
7. GAS SUPPLY LINE — ample size, provides unrestricted supply of gas
8. STEAM DIAPHRAGM — steam from dome actuates diaphragm, throttling gas when desired steam pressure is reached. On water boilers, we furnish at this point an accurate water temperature control device which is readily adjustable and similarly throttles the gas flow when the water in the boiler reaches the desired temperature
9. QUIET BURNERS — raised drilled ports. Blue flame, atmospheric type, quiet in operation



Cutaway View

10. THERMOSTATIC PILOT — Operates thermotor valve mechanically, keeping this valve closed unless pilot is burning properly
11. VENTURI MIXER TUBE — induces proper velocity to gas and primary air, and obtains the correct mixture of gas and air
12. BURNER COCK — specially designed to permit smooth flow of gas with minimum friction
13. JACKET INSULATION — heavy asbestos air-cell effectively prevents excess heat loss from boiler
14. JACKET — baked enamel on both sides. Black enamel trimmings
15. CLEAN-OUT OPENING — provides easy access for cleaning flue surfaces of sections
16. PATENTED PINTYPE CAST IRON SECTION — the most effective type of cast iron heat-absorbing surface. Rapidly and efficiently absorbs the heat from the rising columns of hot gases and transfers this heat to the water within
17. METAL-TO-METAL JOINT — ground, gas-tight. No cement or putty used
18. POP SAFETY VALVE — A S M E standard
19. DRAFT HOOD — acid-proof vitreous enamel on ARMCO iron. Prevents either excessive drafts or down-drafts from affecting proper combustion

"10-MT" EQUIPMENT INCLUDES THE FOLLOWING

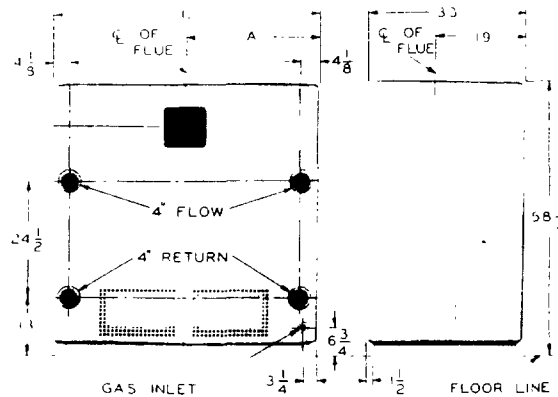
STEAM — Thermotor Throttling Valve with Thermo-Pilot (566-VS), Steam Pressure Regulator, Resetting Low Water Cut-Off (629), Gas Pressure Governor, Compound Steam Gauge, Pop Safety Valve, Boiler Drain and Pilot Cock, Insulated Enameled Jacket, Vitreous Enameled Draft Diverter

WATER — Thermotor Throttling Valve with Thermo-Pilot (566-VW), Water Temperature Regulator, Gas Pressure Governor, Combination Altitude Gauge and Thermometer, Boiler Drain and Pilot Cocks, Insulated Enameled Jacket, Vitreous Enameled Draft Diverter

Note: The 566-V Thermotor Valve with Transformer is electrically operated by room thermostat. For use with any 2-wire Thermostat or any 3-wire Series 10, Thermostat with or without clock for automatic room temperature regulation. The 566-V also includes Thermo-Pilot, throttling and mechanical upper limit control.

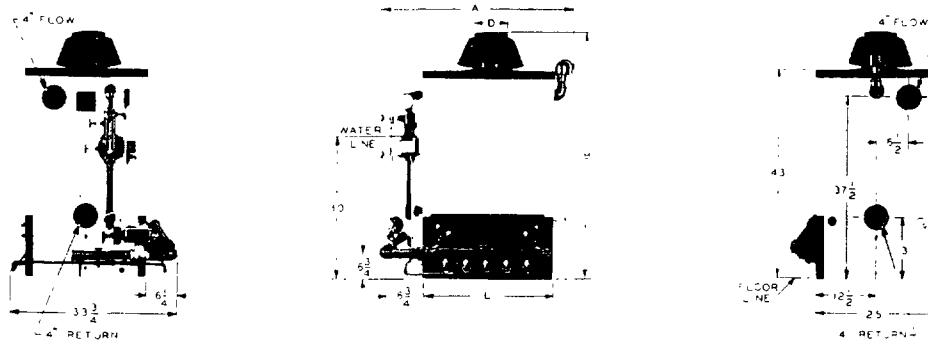
RATINGS AND DIMENSIONS — STEAM AND WATER

EMPIRE BOILER TYPE 1-G-E



Boiler No.	A.G.A. Steam Rating Sq. Ft.	*Supplies Installed Radiation Sq. Ft.	A.G.A. Water Rating Sq. Ft.	*Supplies Installed		A	L	Diam Flue	Gas Conn.	Number & Size Tapping	
				Sq. Ft. 150 Btu	Sq. Ft. 200 Btu					Flow	Return
1-G- 4-E	610	400	980	643	482	16	32	6	1 1/4	2-4	2-4
1-G- 5-E	775	513	1240	820	615	18	36	7	1 1/4	2-4	2-4
1-G- 6-E	940	627	1500	1000	750	20	40	8	1 1/4	2-4	2-4
1-G- 7-E	1105	743	1770	1190	893	22	44	8	1 1/2	2-4	2-4
1-G- 8-E	1270	859	2030	1373	1030	24	48	8	1 1/2	2-4	2-4
1-G- 9-E	1435	978	2300	1567	1175	26	52	9	2	2-4	2-4
1-G-10-E	1600	1097	2560	1755	1316	28	56	9	2	2-4	2-4

STANDARD BOILER TYPE 1-G



Boiler No.	A.G.A. Steam Rating Sq. Ft.	*Supplies Installed Radiation Sq. Ft.	A.G.A. Water Rating Sq. Ft.	*Supplies Installed		L	A**	R	D Diam Flue	Gas Conn.	Number & Size Tapping	
				Sq. Ft. 150 Btu	Sq. Ft. 200 Btu						Flow	Return
1-G- 4	610	400	980	643	482	19	35	50 1/2	6	1 1/4	2-4	2-4
1-G- 5	775	513	1240	820	615	23	39	53	7	1 1/4	2-4	2-4
1-G- 6	940	627	1500	1000	750	27	43	53 1/2	8	1 1/4	2-4	2-4
1-G- 7	1105	743	1770	1190	893	31	47	54	8	1 1/2	2-4	2-4
1-G- 8	1270	859	2030	1373	1030	35	51	55	8	1 1/2	2-4	2-4
1-G- 9	1435	978	2300	1567	1175	39	55	56	9	2	2-4	2-4
1-G-10	1600	1097	2560	1755	1316	43	59	58 1/2	9	2	2-4	2-4
1-G-11	1765	1215	2820	1945	1459	47	63	59	10	2	2-4	2-4

* Ratings listed under "Supplies Installed" include a suitable allowance for normal piping and pickup. This rating is shown computed on the basis of 150 Btu. and 200 Btu. per square foot per hour emission for water boilers and 240 Btu. per square foot per hour for steam boilers. Note: All dimensions are in inches.

** For steam boiler. Water boiler is 1" shorter.

AMERICAN & Standard
RADIATOR & Sanitary
New York CORPORATION Pittsburgh

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