PLAINTIFF'S EXHIBIT

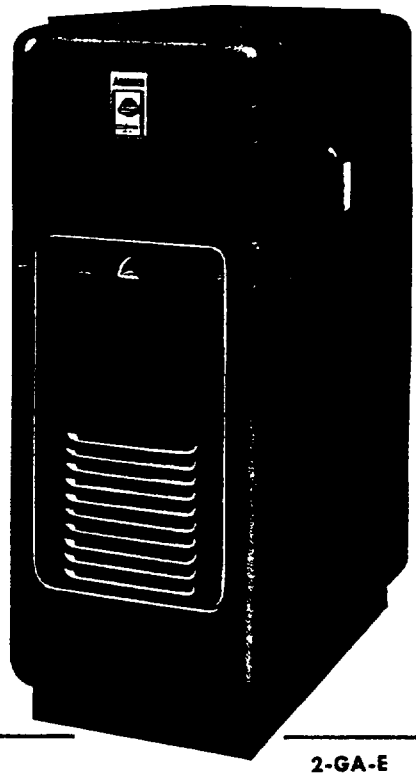
ASI-1165

the EMPIRE BOILER

by

AMERICAN-Standard

a small—cast iron automatic gas fired boiler for hot water systems



2-GA-E

Precision engineered . . . for every type of gas

The 2-GA-E is a smartly jacketed boiler that features perfected design, precision controls and many other refinements desired by the modern home owner. All 'round versatility makes this quality boiler the popular choice for installation in small to medium size homes, with or without basements . . . in apartments . . . in a wide range of commercial locations.

Trim, compact and inexpensive, the 2-GA-E Empire Boiler can be installed in minimum space . . . in any suitable corner, alcove or closet.

The 2-GA-E Empire is made in four sizes—burns manufactured, natural, mixed, butane, propane or butane-air gas with outstanding efficiency and economy. Regularly furnished with manual pilot ignition, the 2-GA-E is also available at slight additional cost with electric pilot ignition for manufactured, natural or mixed gas.

AMERICAN-Standard

First in heating . . . first in plumbing

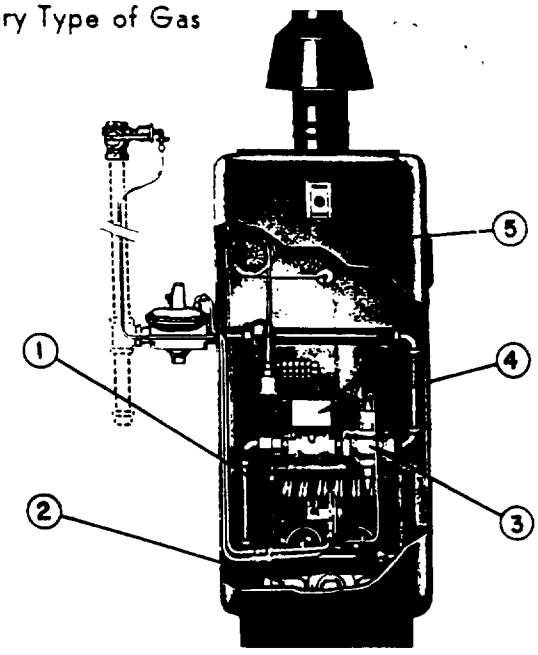
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2-GA-E EMPIRE BOILER For Every Type of Gas

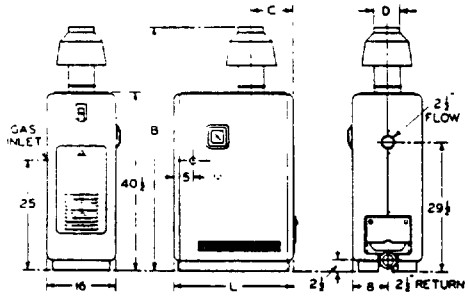
by

AMERICAN-Standard

Installed in the basement, or on the first floor, the Empire Boiler offers the best in automatic gas heating plus beauty and utility second to none. Its economical A.G.A. listed Detroit No. V-574 Automatic Gas Valve controls the flow of gas to burners to maintain the desired room temperature. Only the amount of gas actually needed is consumed, overheating and underheating are prevented, and true safety is assured. Just set—and forget—the attractive Detroit thermostat; the 2-GA-E Empire provides healthful radiant warmth throughout the heating season. Sections are factory assembled. In addition, manifold, piping and controls are sub-assembled for the convenience of the installer. Control arrangement shown in illustration at right is for manufactured, natural or mixed gas.



ratings and data—2-GA-E—for hot water only



Boiler Model Number	B	C	D	L
2-GA-4-E	54¼	6⅝	5	21¼
2-GA-5-E	54¼	8¼	5	24¼
2-GA-6-E	55¼	9⅝	6	27¼
2-GA-7-E	55¼	11⅛	6	30¼

Dimensions (inches)

Boiler Model Number	For installations at sea level and elevations up to 2000 ft: A.G.A. Water Rating (sq ft) Mfd. Nat or Mxd Gas or Butane-Air Gas 525 Btu, 1.16 sp gr	A.G.A. Water Rating (sq ft) LP-Gas	Installed Radiation (sq ft) Mfd. Nat or Mxd Gas or Butane-Air Gas 525 Btu, 1.16 sp gr	Installed Radiation (sq ft) LP-Gas	Size of Gas Connection (inches) Mfd Gas	Nat Gas	Mxd Gas	LP-Gas	Butane Air Gas 525 Btu, 1.16 sp gr
2-GA-4-E	420	400	270	255	¾	¾	¾	¾	¾
2-GA-5-E	560	533	360	345	1	1	1	1	1
2-GA-6-E	700	666	455	435	1	1	1	1	1
2-GA-7-E	840	800	550	520	1	1¼	1¼	1¼	1

Boiler Model Number	For installations at elevations 2000 ft to 5200 ft: A.G.A. Water Rating (sq ft) Mfd. Nat or Mxd Gas or Butane-Air Gas 525 Btu, 1.16 sp gr	A.G.A. Water Rating (sq ft) LP-Gas	Installed Radiation (sq ft) Mfd. Nat or Mxd Gas or Butane-Air Gas 525 Btu, 1.16 sp gr	Installed Radiation (sq ft) LP-Gas
2-GA-4-E	373	360	240	230
2-GA-5-E	497	480	320	310
2-GA-6-E	621	600	400	385
2-GA-7-E	746	720	485	465

For altitudes above 5200 ft, high altitude ratings should be reduced at the rate of 5% for each 1000 ft above 5200 ft

convenient time payments

The 2-GA-E Empire Boiler, like all other products in the complete American-Standard line, is available for modernizing on an easy payment plan through the Heating and Plumbing Finance Corporation. Your Heating Contractor will handle all details.

2-GA-E construction features

1. BURNERS—offer quiet, safe, economical operation. Raised rib, drilled port burners regularly furnished; ribbon burners for manufactured gas optional.

2. WET BASE—prevents excess heat loss, permits installation on combustible flooring in utility room or on first floor, and use of radiators on same floor. No basement required.

3. SAFETY PILOT VALVE—prevents flow of gas unless pilot is burning. Thermocouple operated type mechanical Baso automatic pilot valve provides 100% safety shut off feature for LP-gas and butane-air gas (525 Btu, 1.16 sp gr).

4. AUTOMATIC GAS VALVE—operated by room thermostat. A.G.A. listed electrically actuated Detroit No. V-574 automatic gas valve controls flow of gas and maintains desired room temperature. Mechanical limit control, manual operating and [illegible] recycling features embodie this valve. Special gas valve furnished for LP-gases.

5. JACKET—encloses all principal controls, offers the ideal combination of modern design and attractive, easy-to-keep-clean finish to enhance the interior color styling of any installation. Thick asbestos insulation on all sides effectively prevents excess heat loss from boiler.

Other quality features, not shown above, include:

- SECTIONS—factory assembled. Pin type cast iron sections, the most effective type of cast iron heat absorbing surface, rapidly absorb the heat from rising columns of hot gases and transfer this heat efficiently to the water within the sections.
- CLEANOUT — provides easy access for cleaning flue surfaces of sections.
- CANOPY — forms a perfect gas-tight joint between boiler sections and flue connection. Made of heavy cast iron set in sealed, putty-filled groove.
- ACCESS PANEL — permits easy inspection of controls and access to combustion chamber door. Precision fitted, when closed it rests flush with jacket.

COMPLIES WITH NATIONAL SAFETY REQUIREMENTS—APPROVED BY AMERICAN GAS ASSOCIATION



HEATING AND PLUMBING

AMERICAN RADIATOR & Standard Sanitary CORPORATION
PITTSBURGH 30, PA.

AMERICAN-Standard products—including the 2-GA-E Empire Boiler—are all built to the same uniformly high quality and backed by the technical and manufacturing skill of the American Radiator & Standard Sanitary Corporation, a name synonymous with health and comfort.

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Form No. 785—50M-9/49 H &

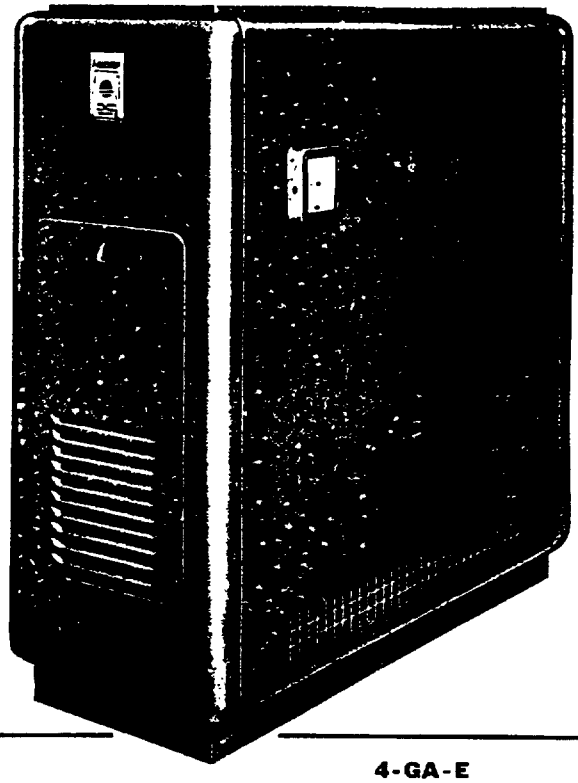
the EMPIRE BOILER

by

AMERICAN-Standard

American Radiator
& Standard Sanitary Corp.
RECEIVED
OCT 4 1949
L. H. R.

cast iron
automatic gas fired boiler
for hot water systems



4-GA-E

Precision engineered . . . for every type of gas

The 4-GA-E is a handsomely jacketed boiler that features perfected design, precision controls and many other refinements desired by the modern home owner. All 'round versatility makes this quality boiler the popular choice for installation in medium size homes, with or without basements . . . in apartments . . . in a wide range of commercial locations.

Trim, compact and inexpensive, the 4-GA-E Empire Boiler can be installed in minimum space . . . in any suitable corner, alcove or closet.

The 4-GA-E Empire is made in three sizes—burns manufactured, natural, mixed, butane, propane or butane-air gas with outstanding efficiency and economy. Regularly furnished with manual pilot ignition, the 4-GA-E is also available at slight additional cost with electric pilot ignition for manufactured, natural or mixed gas.

AMERICAN-Standard

First in heating . . . first in plumbing

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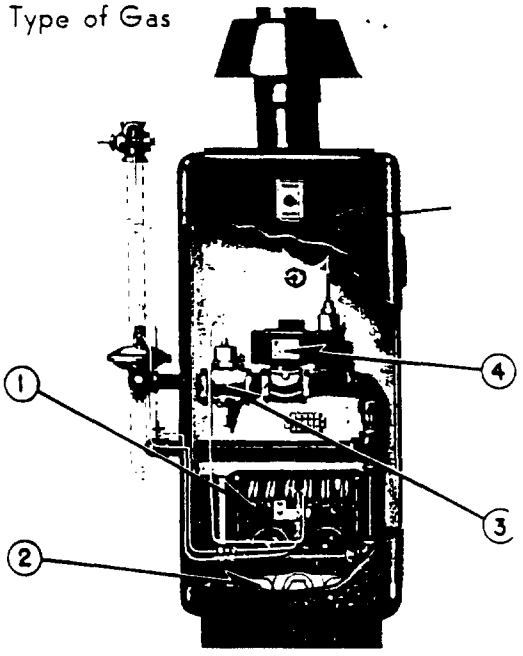
(September 1949)

4-GA-E EMPIRE BOILER For Every Type of Gas

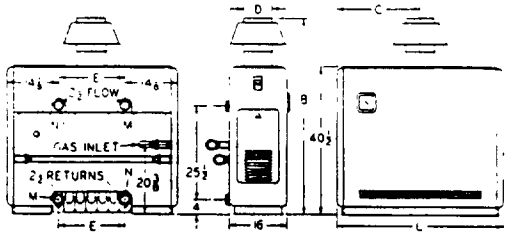
by

AMERICAN-Standard

Installed in the basement, or on the first floor, the Empire Boiler offers the best in automatic gas heating plus beauty and utility second to none. Its economical A.G.A. listed Detroit No. V-574 Automatic Gas Valve controls the flow of gas to burners to maintain the desired room temperature. Only the amount of gas actually needed is consumed, overheating and underheating are prevented, and true safety is assured. Just set—and forget—the attractive Detroit thermostat; the 4-GA-E Empire provides healthful, radiant warmth throughout the heating season. Sections are factory assembled. Manifold, piping and controls are sub-assembled for the convenience of the installer. Control arrangement shown in illustration at right is for manufactured, natural or mixed gas.



ratings and data—4-GA-E—for hot water only



Boiler Model Number	Dimensions (inches) A	B	C	D	E	L
4-GA-8-E	54	18¾	27	7	8	40
4-GA-9-E	54	20¾	27	7	12	40
4-GA-11-E	54	23¼	27	8	18	40

Boiler Model Number	For installations at sea level and elevations up to 2000 ft: A.G.A. Water Rating (sq ft) Mfd, Nat or Mixed Gas or Butane-Air Gas (525 Btu, 1.16 sp gr)	A.G.A. Water Rating (sq ft) LP-Gas	Installed Radiation (sq ft) Mfd, Nat or Mixed Gas or Butane-Air Gas (525 Btu, 1.16 sp gr)	Installed Radiation (sq ft) LP Gas	Size of Gas Connection (inches) Mfd Gas	Nat Gas	Mxd Gas	LP Gas	Butane Air Gas 525 Btu, 1.16 sp gr
4-GA-8-E	980	980	645	645	1	1	1	¾	1
4-GA-9-E	1120	1120	740	740	1¼	1	1	¾	1¼
4-GA-11-E	1400	1400	930	930	1¼	1	1	¾	1¼

Boiler Model Number	For installations at elevations of 2000 ft to 5200 ft: A.G.A. Water Rating (sq ft) Mfd, Nat or Mixed Gas or Butane-Air Gas (525 Btu, 1.16 sp gr)	A.G.A. Water Rating (sq ft) LP-Gas	Installed Radiation (sq ft) Mfd, Nat or Mixed Gas or Butane-Air Gas (525 Btu, 1.16 sp gr)	Installed Radiation (sq ft) LP Gas
4-GA-8-E	784	784	510	510
4-GA-9-E	896	896	585	585
4-GA-11-E	1120	1120	740	740

For altitudes above 5200 ft, high altitude ratings should be reduced at the rate of 5% for each 1000 ft above 5200 ft

convenient time payments

The 4-GA-E Empire Boiler, like all other products in the complete American-Standard line, is available for modernizing on easy payment plan through the Heating and Plumbing Finance Corporation. Your Heating Contractor will handle all details.

4-GA-E construction features

1. BURNERS—offer quiet, safe, economical operation. Raised rib, drilled port burners regularly furnished; ribbon burners for manufactured gas optional.

2. WET BASE—prevents excess heat loss, permits installation on combustible flooring in utility room or on first floor, and use of radiators on same floor. No basement required.

3. AUTOMATIC PILOT VALVE—prevents flow of gas unless pilot is burning. Thermocouple operated type mechanical Baso automatic pilot valve provides 100% safety shut off feature for LP-gas and butane-air gas (525 Btu, 1.16 sp gr).

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