

OIL CITY BOILER WORKS Oil City - Pa.

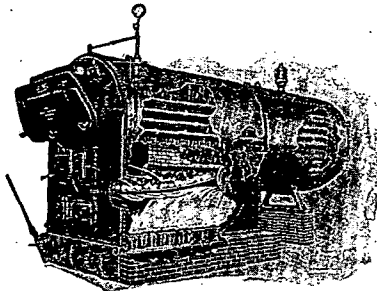
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"Oil City" Smokeless Boiler

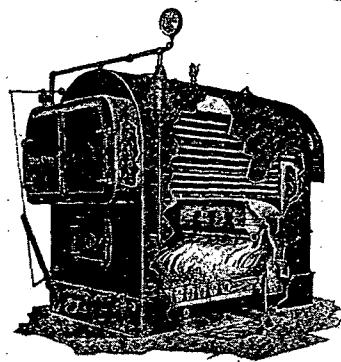
"OIL CITY" low pressure boilers both riveted and welded types are offered to the trade as the last word in "Heating Economy and Reliability," comprising in one completely assembled unit all the necessary elements of a modern plant for steam or hot water heating. These boilers are especially adapted for Schools, Office Buildings, Hotels, Churches, Hospitals, Theatres and Club Houses or for any purpose where the service of a universally recognized fire box boiler of high merit is desired.

"OIL CITY" boilers are designed and constructed to meet all the requirements of modern engineering practices as formulated by the American Society of Mechanical Engineers, the boiler laws of the various states and cities and are backed by over 50 years of successful practical experience.

Description—"OIL CITY" boilers are built in smokeless and straight draft types both riveted and welded for portable and brick settings. Riveted boilers can be furnished with cast iron base ready for setting on foundations. Welded boilers are equipped with an all steel base ready to receive the boiler thereby eliminating all brickwork.

These boilers are constructed with large fire boxes thereby insuring ample combustion space in which the heat-giving gases and air can thoroughly mix and burn before entering the tubes.

The arrangement of tubes in relation to the shell allows free circulation of water at all times, and together with a liberal steam



Type "X" Welded Boiler

space insures an adequate constant supply of dry steam and a steady water level.

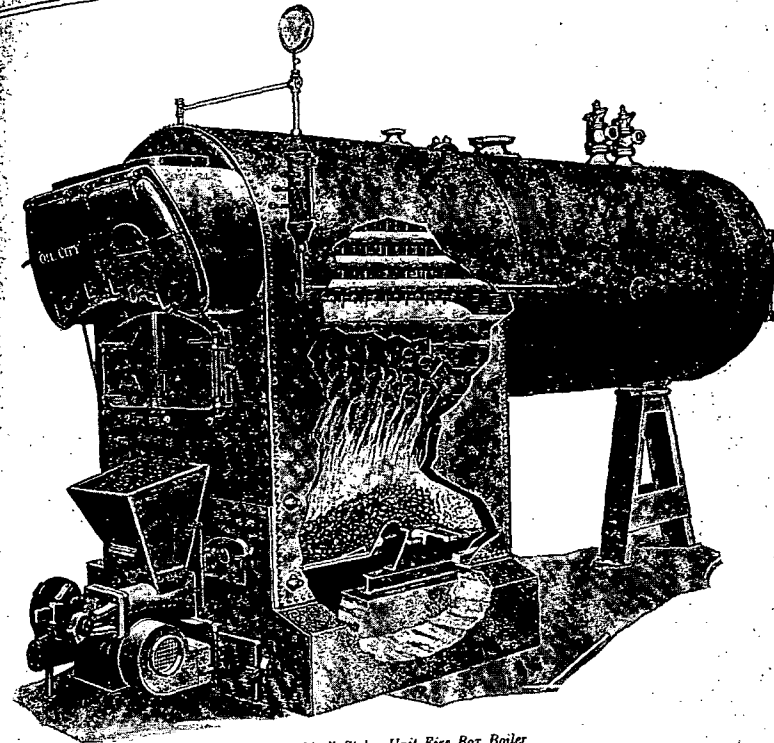
Ratings—Ratings are very conservative, only such parts of the boiler coming in contact with the passage of hot gases on one side and having water on the other being considered as effective heating surface.

Equipment—Equipment with all boilers includes, in addition to a complete set of sectional shaking grates suitable to the type of coal used, all necessary castings, safety valves, steam gauge, water column, baffle arch or tile, etc., as may be required for a complete installation.

Oil-Fired—Where oil is to be used exclusively we strongly recommend our Series 1900 Portable Return Tubular Fire Box Oil Burning Boiler where a riveted boiler is desired and when a welded boiler is to be employed we recommend either our "Type" "X" or "Type" "W" three pass boiler all of which have an exceptionally large fire box which is essential for the proper combustion of oil fuel.

Every "OIL CITY" boiler bears the official stamp of the A. S. M. E. Boiler Code as well as that of the boiler insurance inspector who supervises the construction of the boiler in our shops.

At a small increase in cost "OIL CITY" boilers are furnished, braced and stayed for a safe working pressure of 100 or 125 lb. Complete specifications and measurements can be obtained by writing for circulars.



"Oil City" Stoker-Unit Fire Box Boiler

A self-contained unit possible of high efficiency and high ratings which can be fired smokelessly using low grades of bituminous coal. Automatic regulation may be applied eliminating entirely the human element in firing. It has the approval of Smoke Abatement Bureaus of several of our large cities.

One of the special features of this boiler is the manner in which it has been designed to accommodate a stoker, keeping it surrounded by the water walls of the fire-box with the water leg ring well below the combustion zone. The cut-out front used in this construction eliminates the necessity of using a special high refractory brick wall around the setting and its subsequent maintenance which is necessary to protect the water leg ring from the direct heat of combustion as is required with the ordinary type of fire-box boiler. In addition the elimination of this refractory wall leaves an exceptionally large free grate area. The length and width of the furnace are so proportioned to afford ample grate surface and together with the exceptionally high crown sheet make possible constant opera-

tion at high overloads. Actual tests have shown that 150 per cent ratings and higher can easily be maintained without seriously effecting the efficiency.

The water space surrounding the fire box has been considerably increased so as to bring to this high temperature zone a relatively larger volume of water than is found in boilers of this type. This factor not only improves the water circulation around this area of high heat concentration but also permits of a more quiet liberation of steam which in turn results in a steadier water line especially under forced conditions.

The furnace doors, rear doors and smoke-box doors are of a special grooved construction, machined and asbestos packed to prevent leakage or air infiltration at the joints.

The "STOKER-UNIT" Boiler is made in sizes ranging from 75 to 300 h.p. and for working pressures from 15 to 125 lb., all in strict compliance with the A. S. M. E. Boiler Code. The low pressure or 15 lb. boilers are built either riveted or welded as specified.