

“OILEX”

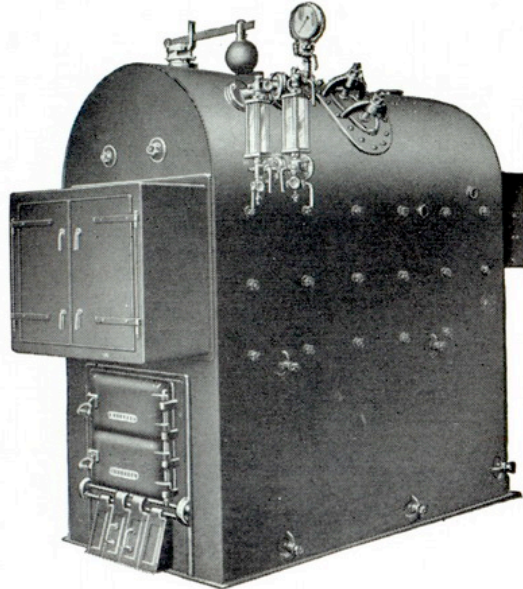
WELDED MILD STEEL

BOILER

SERIES 5S FOR SOLID FUEL

**FOR LOW PRESSURE STEAM UP TO 30 LB. PER SQUARE INCH
WORKING PRESSURE**

With Grate and Doors for **Solid Fuel** Hand Firing or without Grate for Mechanical
Stoking



“OILEX”

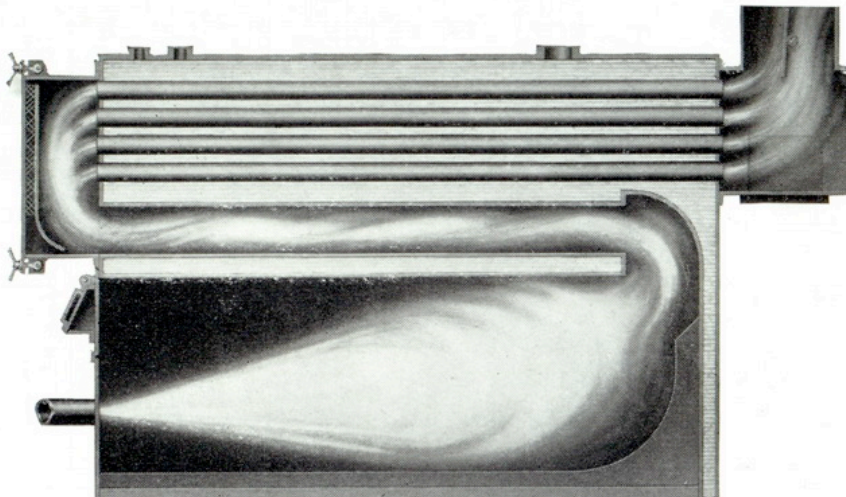
WELDED MILD STEEL

BOILER

SERIES OF 5

FOR CENTRAL WARMING BY HOT WATER

Specially designed and proportioned **FOR OIL FIRING**



“OILEX”

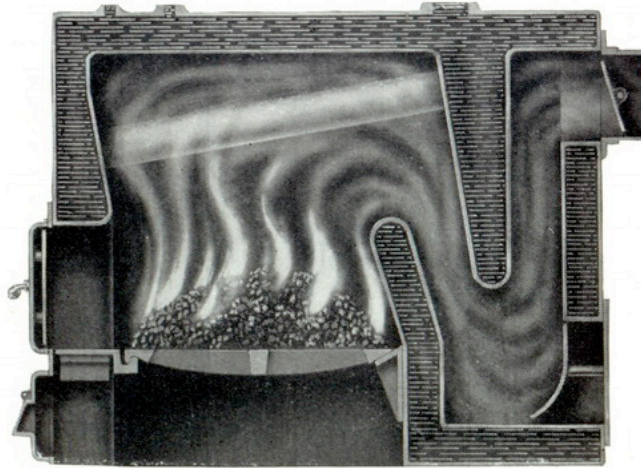
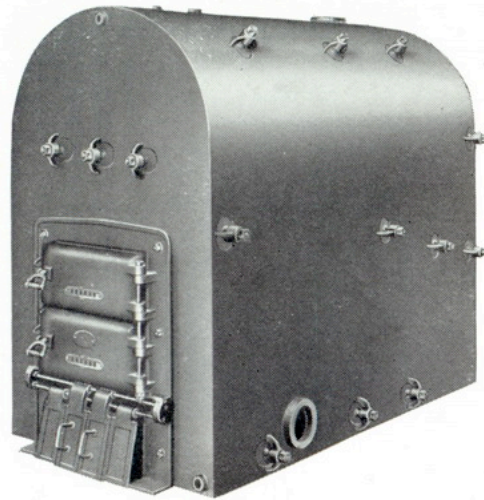
WELDED MILD STEEL

BOILER

SERIES 6 FOR SOLID FUEL

**DESIGNED FOR DIRECT HOT WATER TAP SUPPLY IN
HARD WATER DISTRICTS**

With Grate and Doors for Solid Fuel Hand Firing or without Grate for Mechanical
Stoking



Specify actual head pressure required, on inquiry.

HARTLEY & SUGDEN LIMITED

“OILEX”

WELDED MILD STEEL STEAM

BOILER

SERIES 7S FOR WORKING PRESSURE UP TO 30 LB. PER SQ. IN.

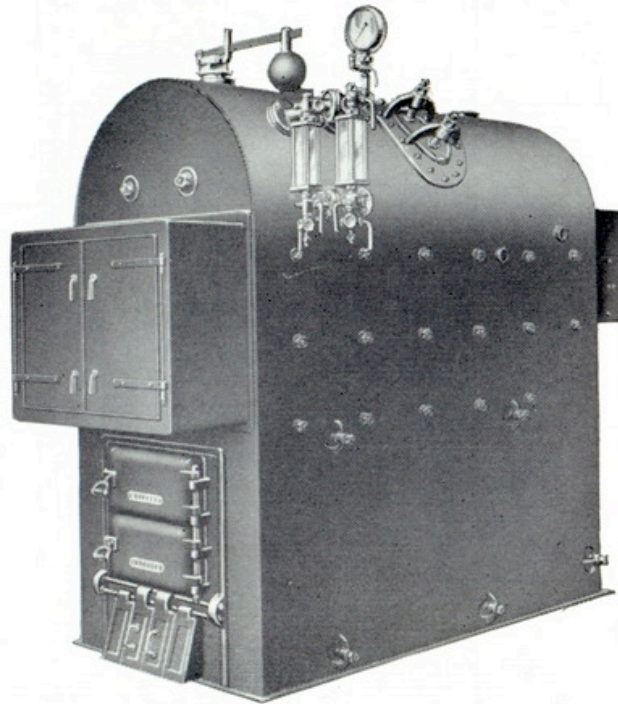
For Central Warming by Low Pressure Steam

This series of the popular “Oilex” Boiler is specially arranged for firing with WASTEWOOD as fuel. Many factories now produce quantities of wood which cannot be used for any particular purpose, and in the past there has been difficulty in usefully disposing of such. This boiler provides an excellent means of disposal and at the same time produces low pressure steam for warming, process work, etc. Specially note that two flue outlets are provided on the back of the boiler. The top outlet is for full boiler power in the winter months, the lower outlet by-passes the bulk of the heating surface and ensures destruction of the wastewood in the summer months.

BOTTOM SMOKE OUTLET AT BACK OF FIREBOX. As the temperature of the gases from the bottom outlet will be too high for Cast-iron or Steel Smoke Pipe when using the Boiler as an Incinerator in summer time, it is necessary to build this connection to stack in BRICKWORK.

TOP SMOKE OUTLET. Cast-iron or Steel Smoke Pipe to be used in the ordinary way.

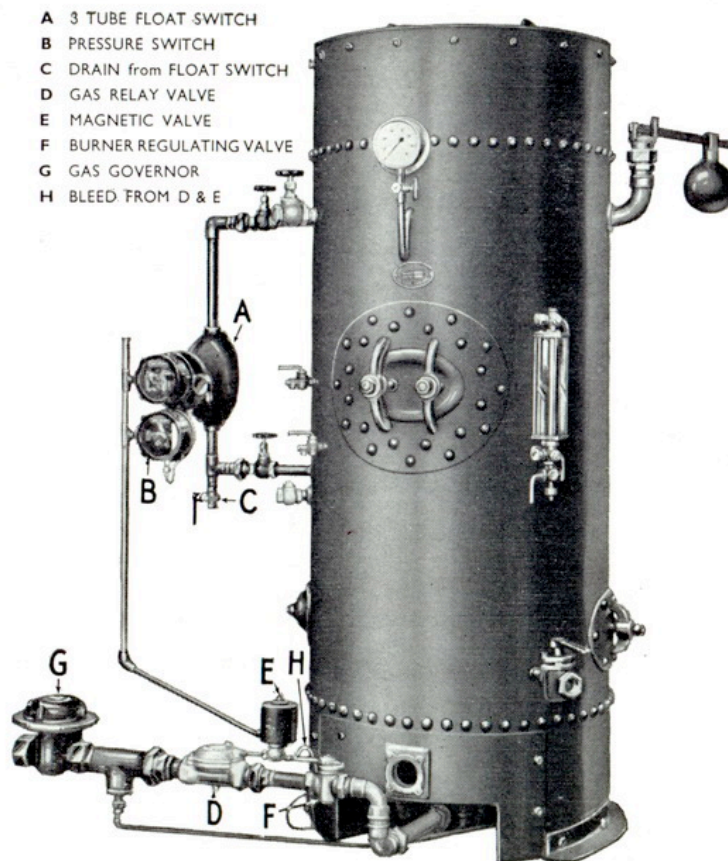
No damper is provided in bottom smoke outlet, and allowance must be made for bricking this up with firetiles and fireclay for winter use. These tiles can be easily removed when the Boiler is used for summer duty, and replaced when turned over to winter use.



GAS FIRED STEAM BOILER

These boilers are constructed of best British boiler quality mild steel plates with all seams riveted. Standard boilers are **constructed for a working pressure of 80 lb. P.S.I.**, but they can be designed for higher pressures if required. **The tubes are of best solid drawn copper**, expanded into the tube plates and fitted with ferrules at both ends. Experience has shown that steel tubes, as used by some manufacturers, are quickly corroded by the products of combustion resulting in high maintenance costs, charges which are obviated by the use of copper tubes. This point should receive full consideration when comparing prices. Each tube is also fitted with a spiral retarder which ensures that as the gases pass through they scrub the tube wall; this scrubbing action gives maximum heat transmission and a consequently low flue-gas temperature. The heating surface in all our boilers is specified and it is emphasised that this surface is all water-backed. A comparison of heating surface with evaporative capacity demonstrates that these boilers are conservatively rated to the benefit of their working life and efficiency. This design of boiler can be supplied for central warming by hot water; details on application.

All boilers can be of welded construction for pressures below 30 lb. P.S.I.



Carefully note if comparing with alternative makes that for equivalent steaming capacity this boiler is of larger diameter. This is due to the tubes being so spaced as to give complete facilities for cleaning deposit from hard water; easy access for this work is provided through the large manhole and a number of mudholes.

HARTLEY & SUGDEN LIMITED

“ECONOMIC” INDEPENDENT STEAM BOILER

This efficient and economical type of boiler is highly commended where good water is available. Construction is throughout in accordance with best modern boiler practice; all plates are bent to shape and assembled in position before rivet holes are drilled; all riveting, as far as practicable, is by powerful hydraulic riveting machines, and all seams are afterwards carefully caulked and fullered by pneumatic tools. The small tubes are best solid hot drawn steel, and the furnace flue tube is usually made with Adamson joints.

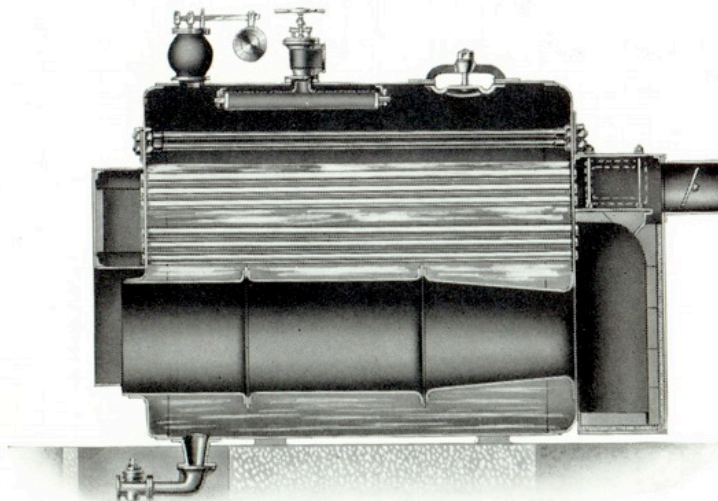
The tables detail standard dimensions, capacity, and proportions of the boilers, but these can be varied in some details to suit boiler house limitations when essential, but the standard boiler should be installed wherever possible.

This type of boiler is suitable for boiler rooms where height is restricted.

Constructed to pass Board of Trade and Insurance Company requirements, and complies with the Factories Act 1937.



Illustration of Single Pass Return Tube Type Steam Boiler with Front Flue

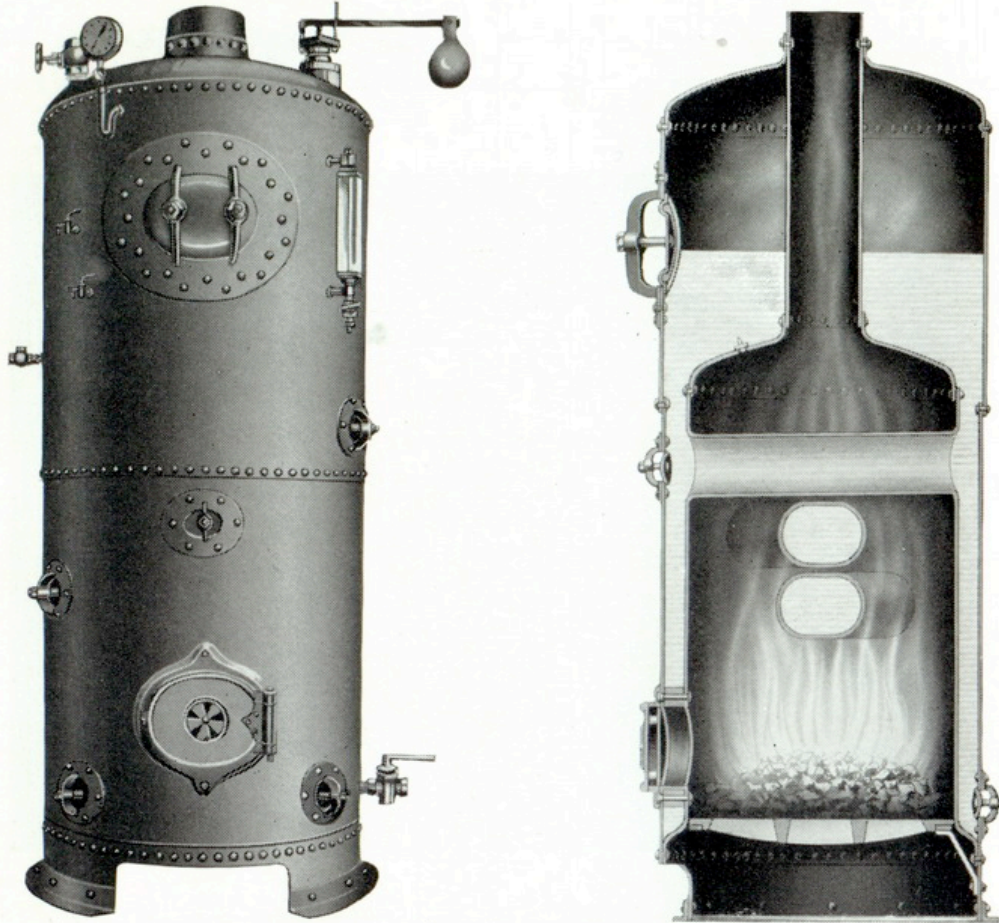


Sectional illustration of Double Pass Return Tube Type Steam Boiler with Back Flue

HARTLEY & SUGDEN LIMITED

RIVETED VERTICAL STEAM BOILER

Constructed to pass Board of Trade and Insurance Company



For 80 lb. or 100 lb. Working Pressure