The FORTIES

and AFTER

92. *Advert. Hot Water by Gas. Gas Council, 1958. (RD, 3/58).*

93. Extract from Advert.
Mr Therm -Mother's Daily Help.
(Gas Council, 1957).

The Forties and After

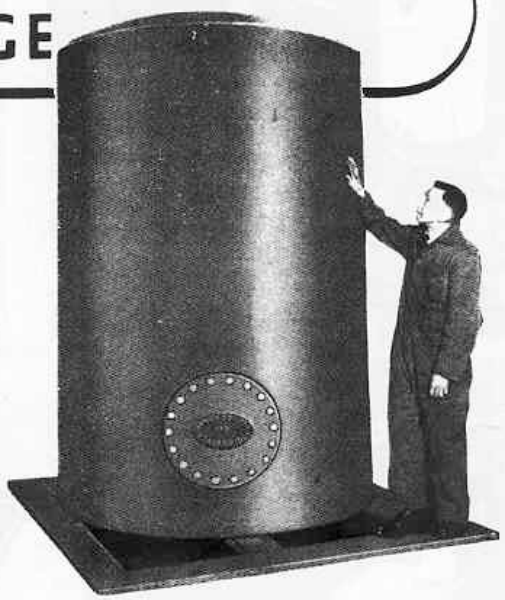
The introduction to a landmark textbook *(Hot Water Engineering, 1945)* describes how society in general, and heating engineers in particular, regarded the provision of hot water as the Second World War was ending: *"So to have arrived at a time when hot water in abundance is regarded as one of the common necessities of life does indeed mark a great step forward. Its provision, like that of so many of the things which the community takes for granted, requires a great deal of care and thought. Although the technics involved are not so formidable as those of heavy engineering, yet hot-water systems have their own complexities and pitfalls, and the subject is one which demands, and deserves, close study."*

Another classic textbook of the immediate post-war years (Faber & Kell, 1948) refers to the rebuilding of war-damaged small houses and tenements under the National Housing Scheme and compares the alternatives of hot-water supply: *"Electricity or gas offers many advantages as compared with solid fuel firing in a boiler. These include: cleanliness, convenience, absence of labour in stoking and ash removal, uniformity of temperature of hot water, absence of a chimney."*

The use of gas was promoted as an energy saver. One water-heating advertisement boldly stated, *"Gas used efficiently saves coal."* The benefits of gas water-heating to the housewife were loudly trumpeted. A textbook *(Hot Water Engineering, 1948)* shows the wide range of gas water-heating appliances then available. There were gas instantaneous water-heaters from De La Rue and Ascot, while gas-fired water storage heaters, such as the Equator, from Richmonds Gas Stove Co, were also available. In addition, there was the gas circulator, from firms such as Main Water Heaters. Electrical manufacturers also entered the market. Aidas Electric featured *Sadia* Hot Water Systems with an all-electric, and even a coal-electric model. General Electric advertised a wide range of *GEC* Electric Storage Water Heating Equipment. The firm of Santon made both electric instantaneous and storage water heaters, while Heatrae sold a *Jet* Water Heater for multipoint use. A very basic built-in electric water heater by the British Electrical Development Association used a rectangular galvanised tank, cased in cork insulation, with an inbuilt immersion heater. For institutional and industrial water heating a range of calorifiers and cylinders was available, usually in copper, from firms such as Rycroft.

While neither glamorous nor at the forefront of technology, hot-water supply is still a very important part of the services of a building. As recounted in 1948: *"The object of all engineering is, or should be, to serve the convenience of mankind, and few branches can make such a direct and immediate contribution to health and comfort as hot-water engineering."* These words remain true today, more than fifty years later.

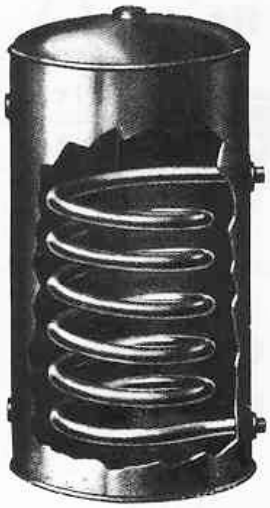
WATER HEATING and STORAGE



These illustrations shew but two of the many types and sizes of R.B. Equipment for the Hot Water Engineer.

Right : 2000-gallon copper Hot Water Storage Cylinder for a large Industrial installation.

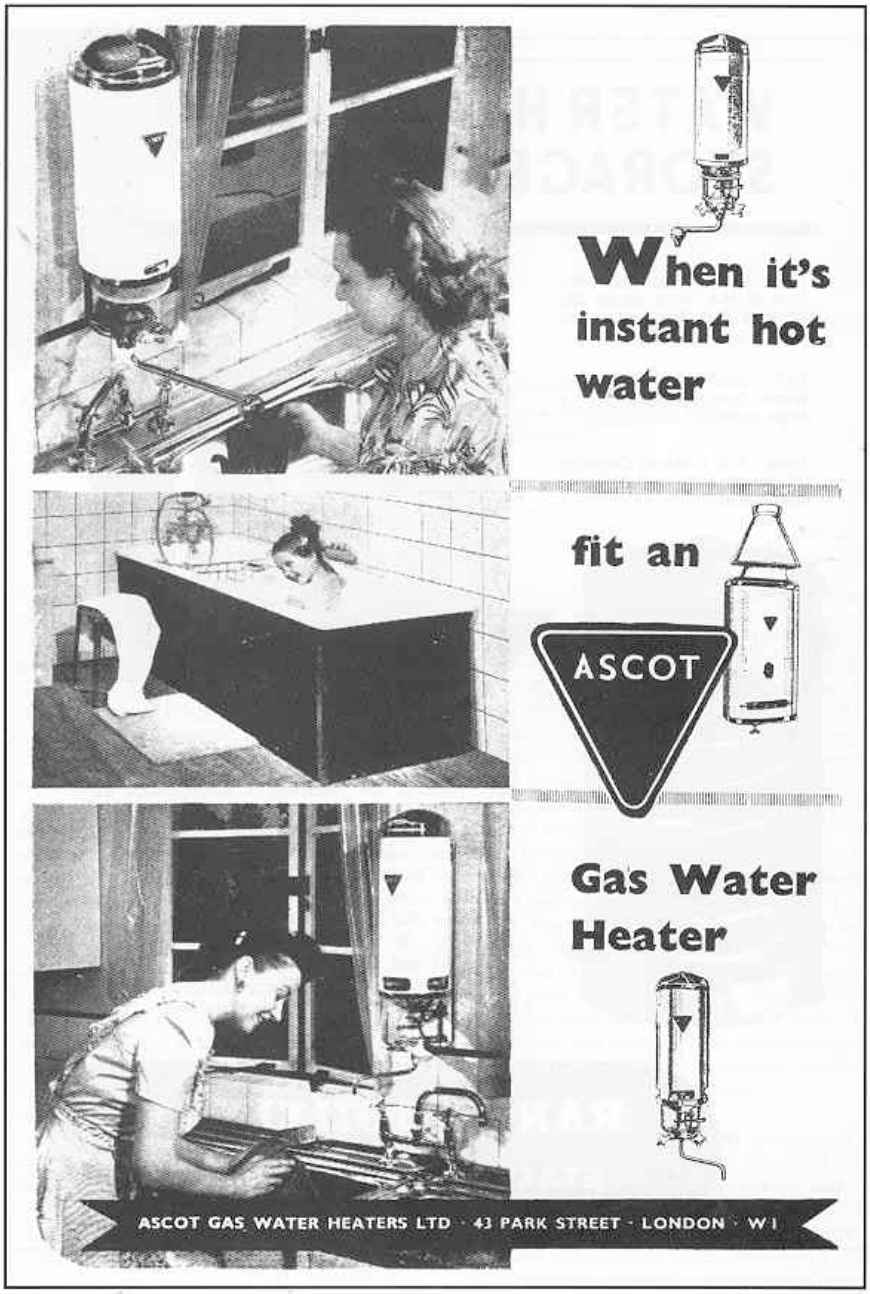
Below : R.B. Coil-type Calorifier for Hotels, Flats and Domestic installations.



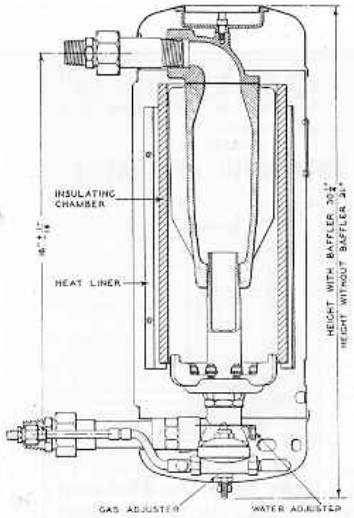
Range Boilers Ltd. and its associated companies have been in the forefront of development in Hot Water Engineering for over 50 years.
The supply of large quantities of hot water, readily and economically, for schools, flats, hotels, hospitals, institutions and industry is a problem that has been solved by R.B. Copper Heat Exchange and Storage Plant and we offer to engineers the fullest co-operation by our Technical and Research Departments and our unrivalled manufacturing experience and resources in the solution of unusual cases.

RANGE BOILERS LTD
(AND SUBSIDIARY COMPANIES)
STALYBRIDGE CHESHIRE

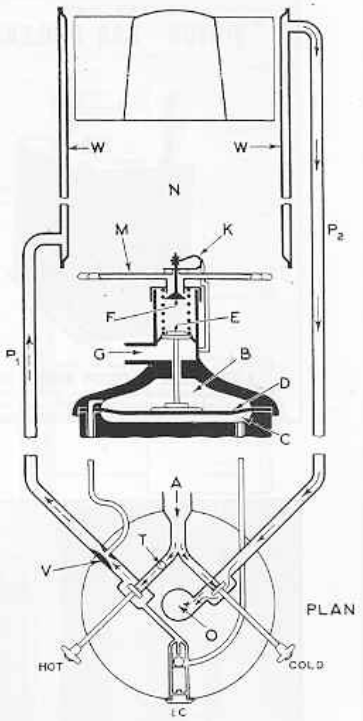
94. Advert from a Textbook on Hot Water Engineering.
Range Boilers, Stalybridge, 1948. (HWE, p.337).
Note the 2000 gallon copper hot water storage cylinder on the right.



95. Advert from a Textbook on Hot Water Engineering. When it's instant hot water... Ascot Water Heaters, London, 1948. (HWE, p.335).



96. Section of a Gas Circulator. Main Water Heaters, 1948. (HWE, p.165).



97. Diagram. Operation of a Venturi Operated Gas Heater of the Instantaneous Type, 1948. (HWE, p.135). Hot, cold, or mixed water may be obtained at will.

1002

SOUTH SUBURBAN GAS CO.

For List of Offices and Showrooms, see overleaf.

THE No. 93 TREASURE GEYSER.
(Chamber Heating).

THE TREASURE Geyser is made in strong sheet copper, tinned inside and highly polished and lacquered outside.

It is fitted with interlocking gas and water taps as standard, but is also supplied fitted with gas tap and pilot only or with patent safety gas valve when required.

Water can be used for drinking, medicinal or ordinary domestic purposes.

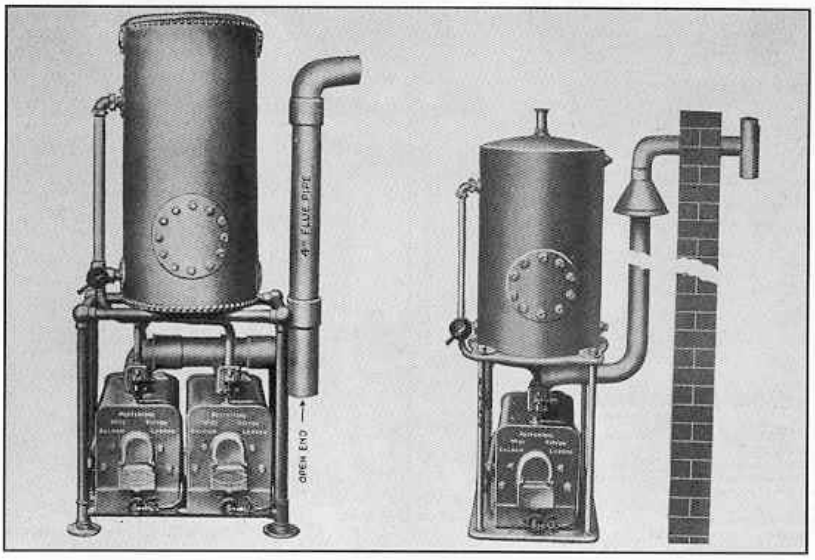
DIMENSIONS.

No.	Heats per Minute 40°*	Height Overall	Diam. of Base	Flue Opening
	Gals.	ins.	in.	in.
93	3½	33¼	15¾	4½

*Flowing at these rates the temperature is raised 40°—i.e. from 50° to 100°. Higher temperatures are obtained by reducing the flow.

Nov., 1933. PARKINSON Ref. No. 1002

98. Leaflet, Parkinson "Treasure" Geyser, 1932. (Paul Yunnie Collection).



99. Two Versions of Potterton's Hot Water Supply Packages

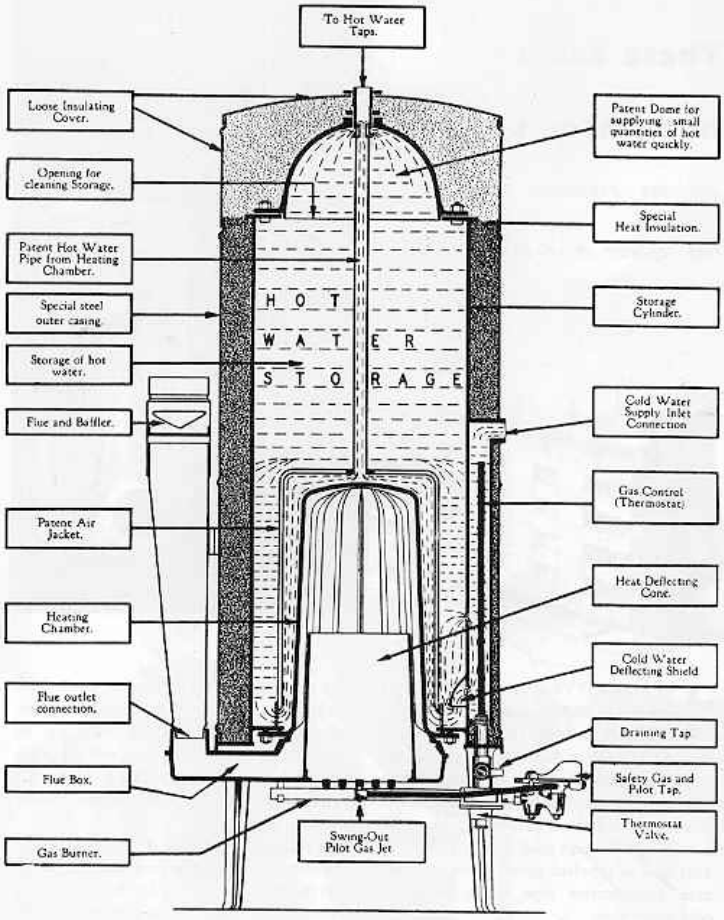
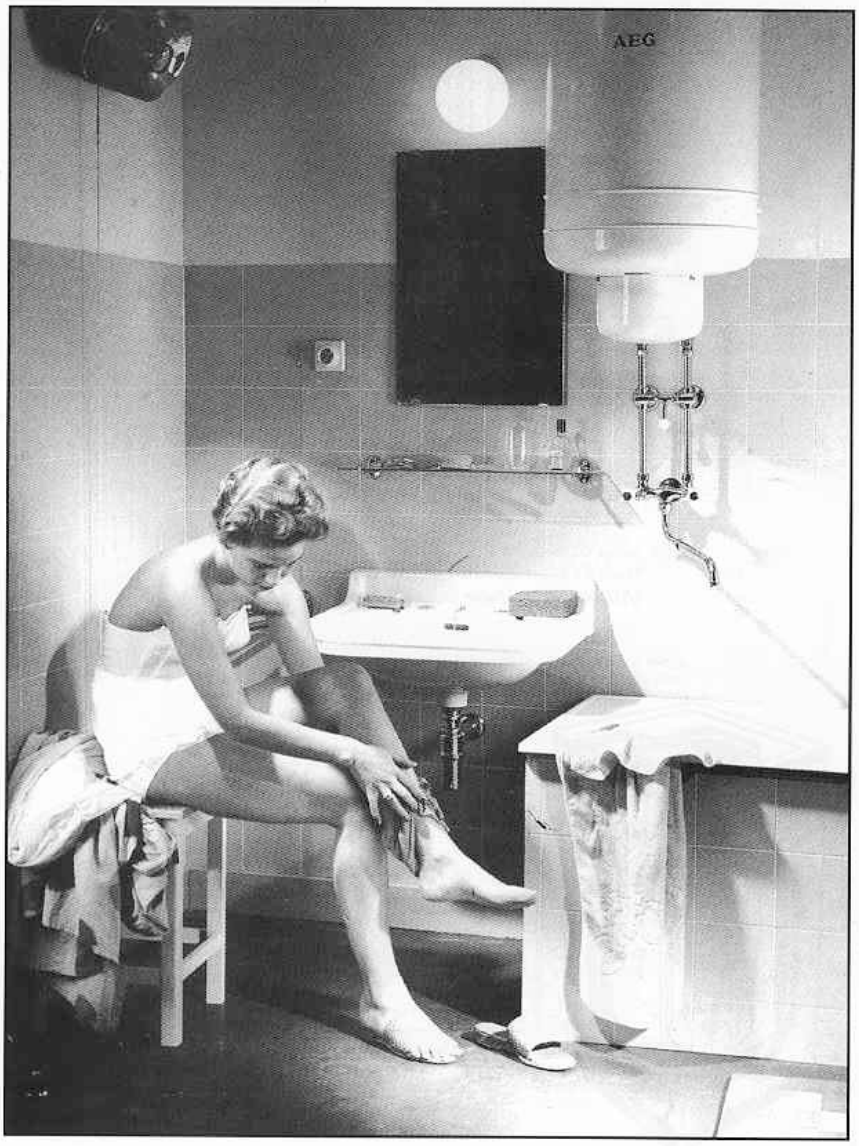


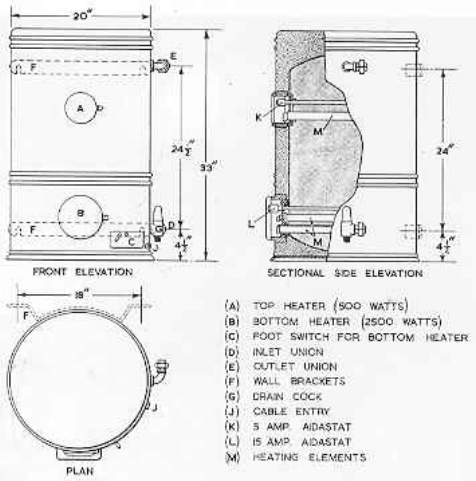
Fig. 18.—A SECTION OF THE " EQUATOR " STORAGE HEATER
(Richmonds Gas Stove Co. Ltd.)

100. Section. The Equator, Gas Fired Water Storage Heater, Richmonds Gas Stove Co, 1948. (HWE, p.163). A noteworthy feature is the provision of hot water a few minutes after the gas is lighted...

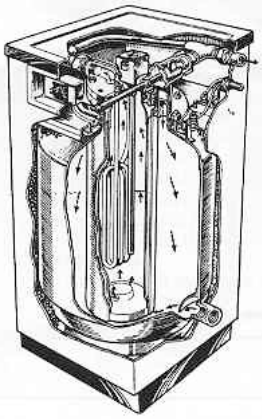
101. Advert from a Textbook on Hot Water Engineering. These Sadia Hot Water Systems..... Aidas Electric Ltd, Northolt, 1948. (HWE, p.339). Featuring All-Electric and Coal-Electric Models.

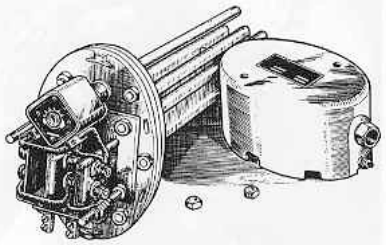


102. Postcard, AEG Water Heater. (Paul Yunnie Collection).



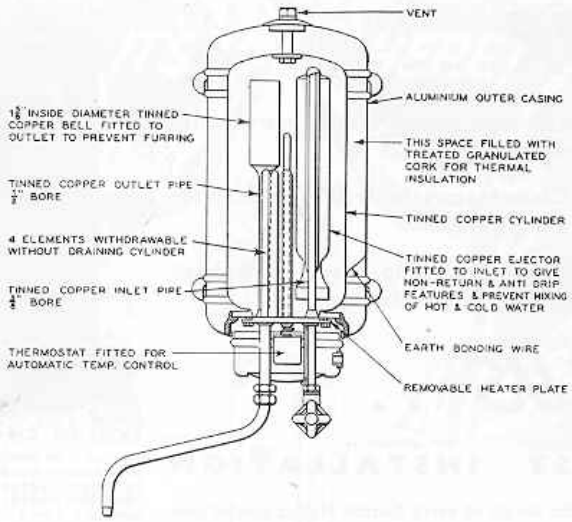
103. Sadia UDB Dulec Type Electric Water Heater, 1948. Made by Aidas Electric Ltd. (HWE, p.211). UDB stands for Under Draining Board.



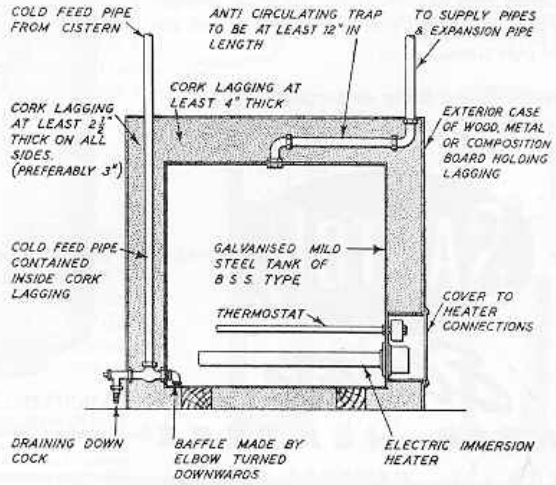


104. Blade Type Immersion Elements for Electric Water Heating, 1948. (HWE, p.203).

105. Electric Jet Water Heater for Multipoint Use. Heatrae Ltd, 1948. (HWE, p.187).



106. Santon NPT Electric Water Heater, 1948. (HWE, p.178). Incorporates the Ejector anti-drip device introduced by Santon.



107. Section. Typical Built-In Electric Water Heater. British Electrical Development Association, 1948. (HWE, p.213).

FOR . . .

Sound Design, fruit of over 30 years' manufacturing experience.

First-Class Materials carefully selected for every component.

Superb Workmanship, checked and tested at every stage of manufacture.

PLUS . . .

EASY INSTALLATION

In the design of every Santon Heater special care is taken to ensure that all connections, water and electric, shall be easily accessible and simple to complete. Special provision is also made for easy maintenance and de-furring. For the immersion types a wide range of flanges and fixtures is available to suit every type of installation. Thermal storage heaters can be supplied with connections to suit all standard pipe sizes.

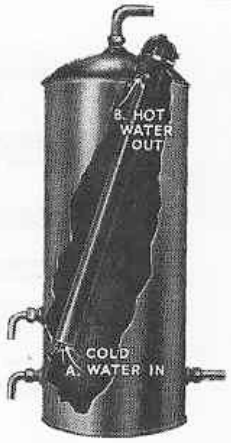
Concise, clear-cut fixing instructions, amply illustrated, are included with every heater despatched.

TRADE SANTON MARK

Electric

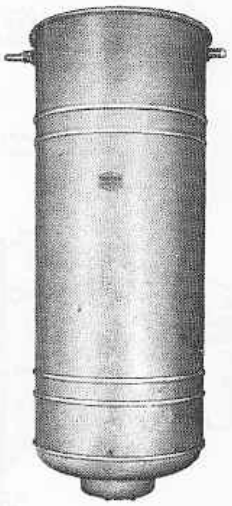
WATER-HEATERS

SANTON LTD., NEWPORT 27, MON.



SANTON CIRCULATOR

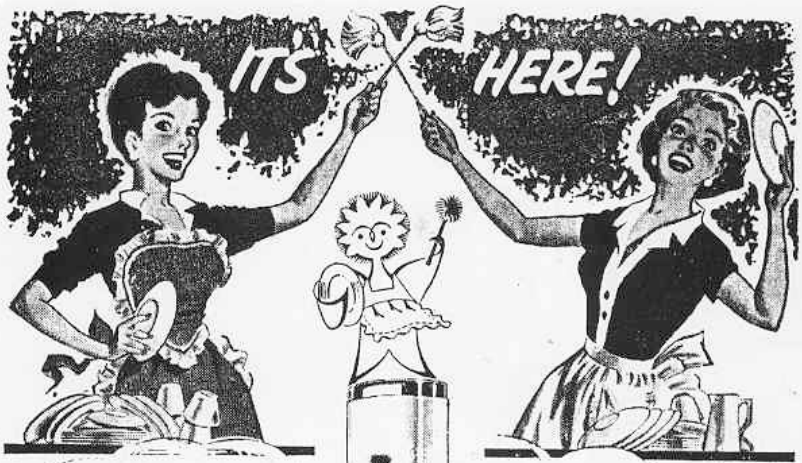
Mounted in the dome of a cylindrical tank. Available with hand or thermostatic control, with or without circulating tube. Lengths from 20" to 42". Loadings 2, 3 and 4 kW.



SANTON TYPE DF

Thermal storage heater with built-in supply tank. Thermostatically controlled. Wall-mounted from 5 to 20 gallons. Floor-mounted from 12 to 100 gallons. Loadings 1 to 6 kW.

108. Advert from a Textbook on Hot Water Engineering. Santon Circulator & Type DF Electric Water Heaters. Santon, Newport, 1948. (HWE, p.351). With special provision for maintenance and de-furring...

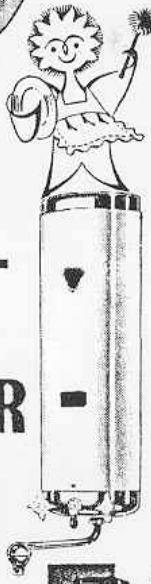


Mr. Therm's

HOT WATER - PARADE!

Hot water at any time, day or night! From taps that never run cold! And no fuel to store or carry, no ashes to make dirt and work, and NO WAITING! Thanks to Mr. Therm, your home too can have the health and happiness of hot water on tap. Your Gas Showroom has a special show of the latest hot water appliances for kitchen, bathroom—every possible need. They are handsome to look at, child's play to use and available **on the easiest of easy terms.** Go along to your Gas Showroom to find out all about the kind of water heater *you* want.

HERE IS A SELECTION OF THE MANY MODELS AVAILABLE



Ascot 509 boiling water heater —Warm, HOT or BOILING water in seconds. Makes tea like magic. Cash price £25.6.6 (fitting extra).

Main Adonis sink water heater—for hot water in the kitchen. Wash up when you please. Cash price £18.9.1 (fitting extra).

Radiation Speedlyn high speed recovery heater—piping hot water always ready. Cash price £16.19.0 (fitting extra).

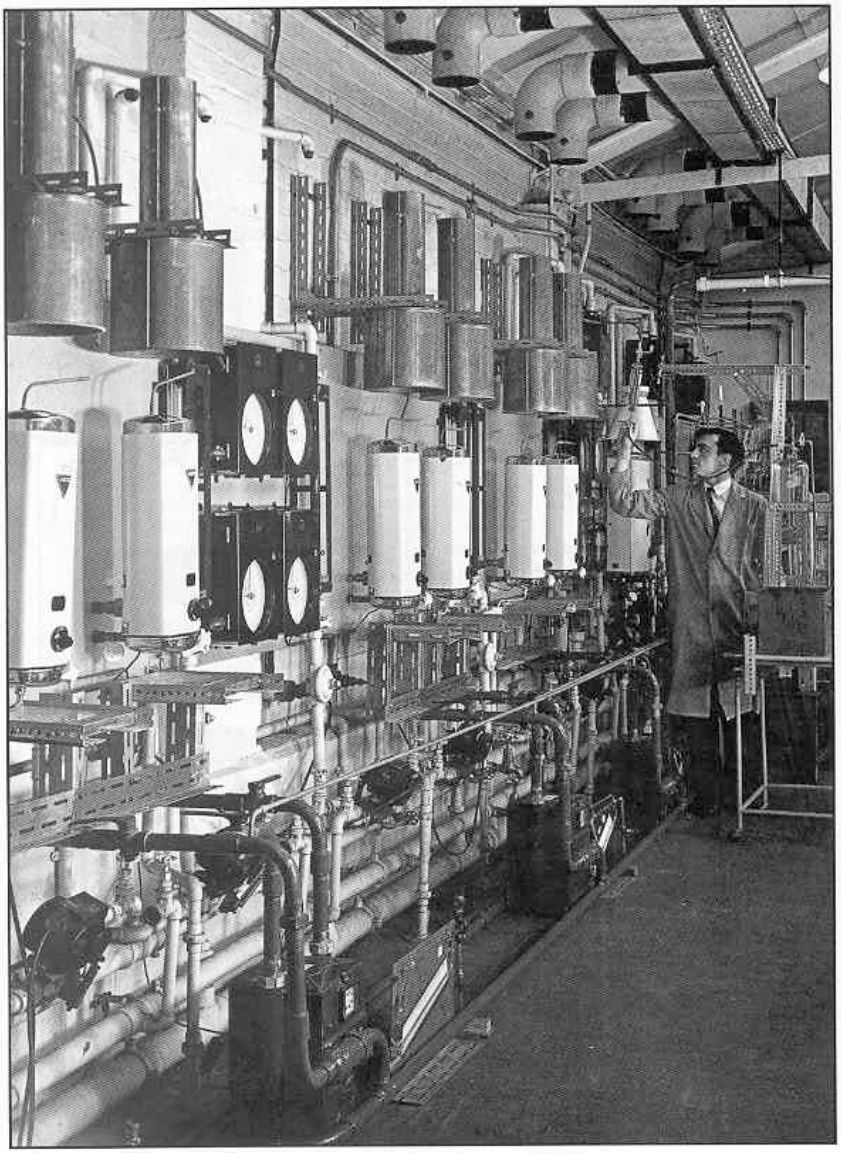
Ewart S.140 bath water heater—hot water for bath after bath. No waste—no waiting. Cash price £21.10.9 (fitting extra).

Flavel National 20 instant sink heater—half a gallon a minute—hot water for every chore! Cash price £13.17.7 (fitting extra).

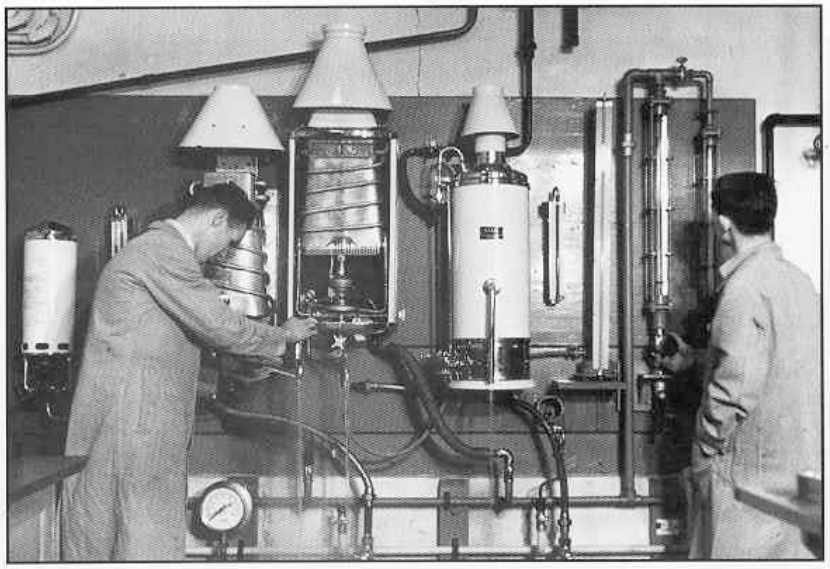
...SEE THEM THIS WEEK AT YOUR GAS SHOWROOM...

Issued by the Gas Council

109. Advert. Mr Therm's Hot Water Parade, 1958. (RD, 3/58).
The health and happiness of hot water on tap....

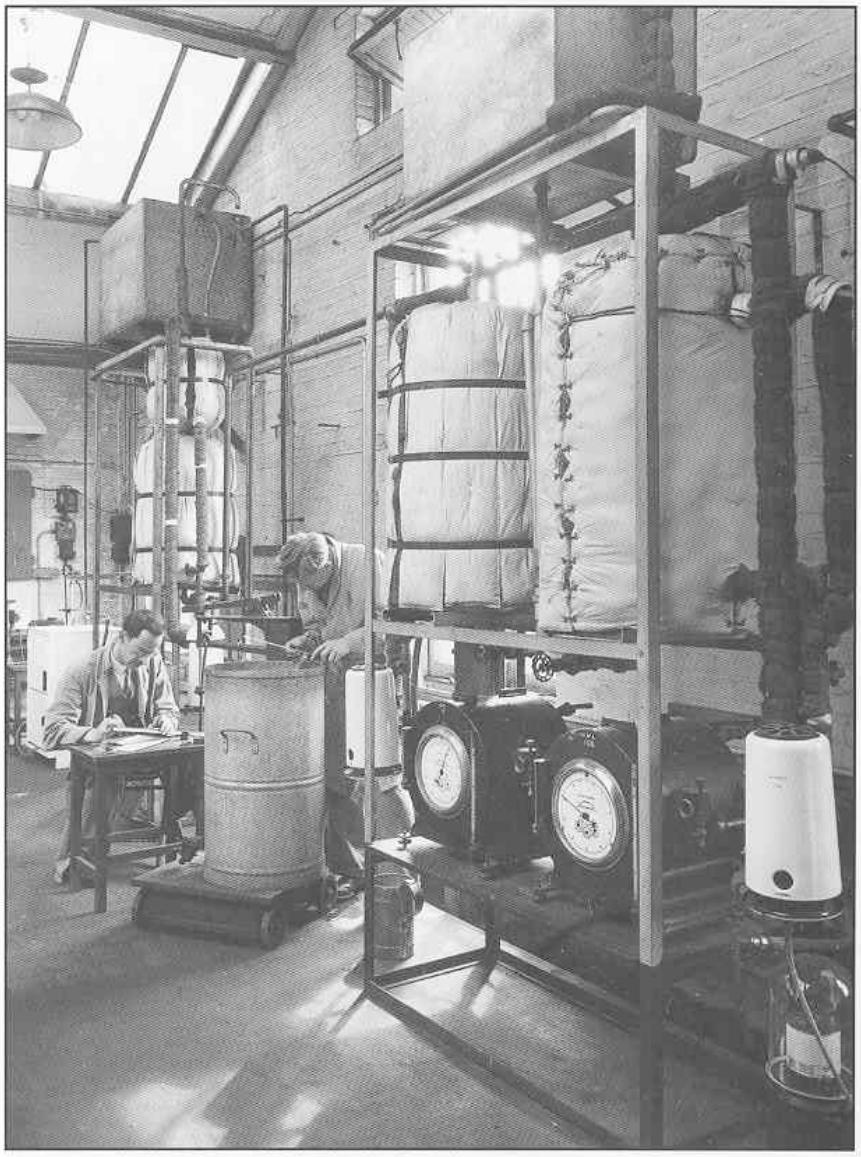


110. Life Testing of Sink Gas Water Heaters, Water Heating Laboratory, Watson House, Fulham, probably 1960s. North Thames Gas Board.

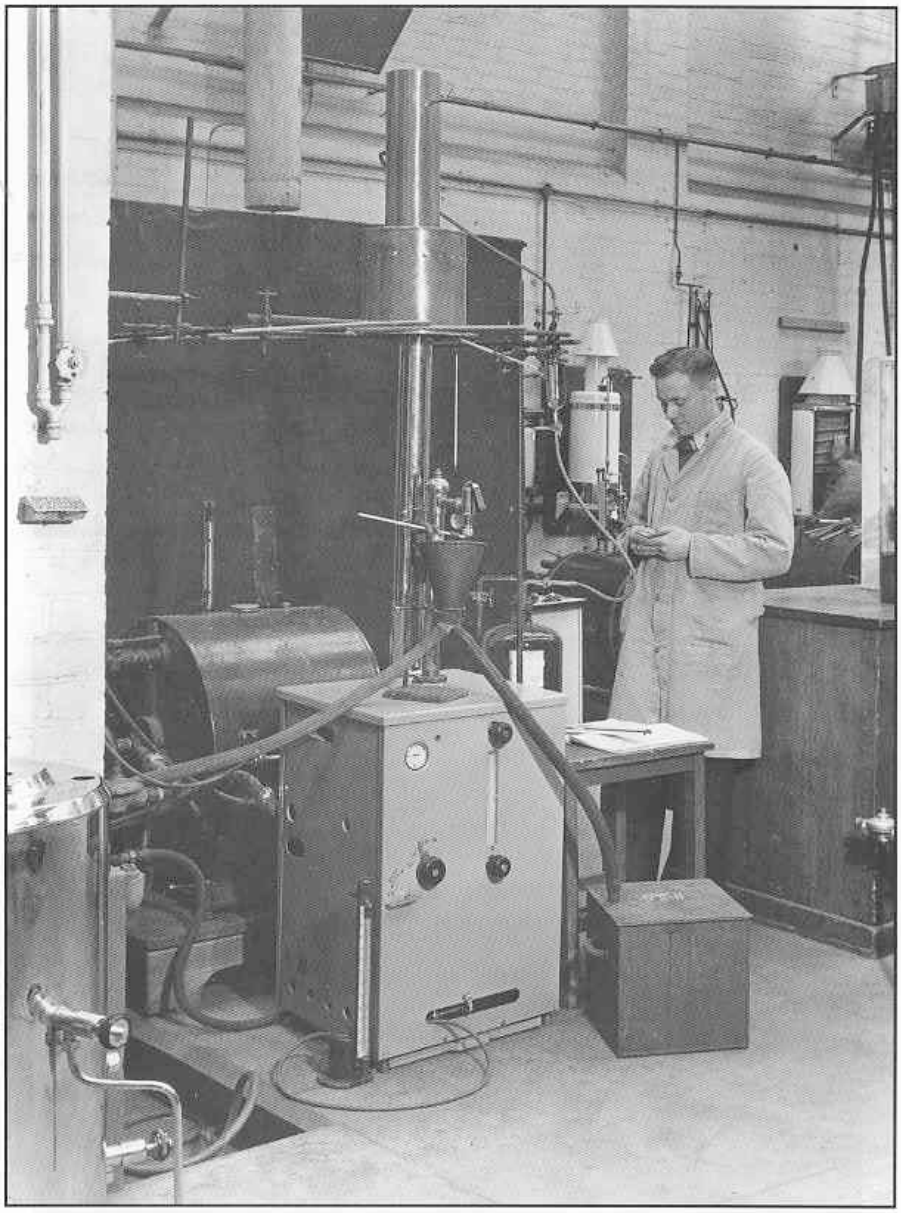


111. Testing Gas Water Heaters, c.1950. The Gas Light & Coke Co.

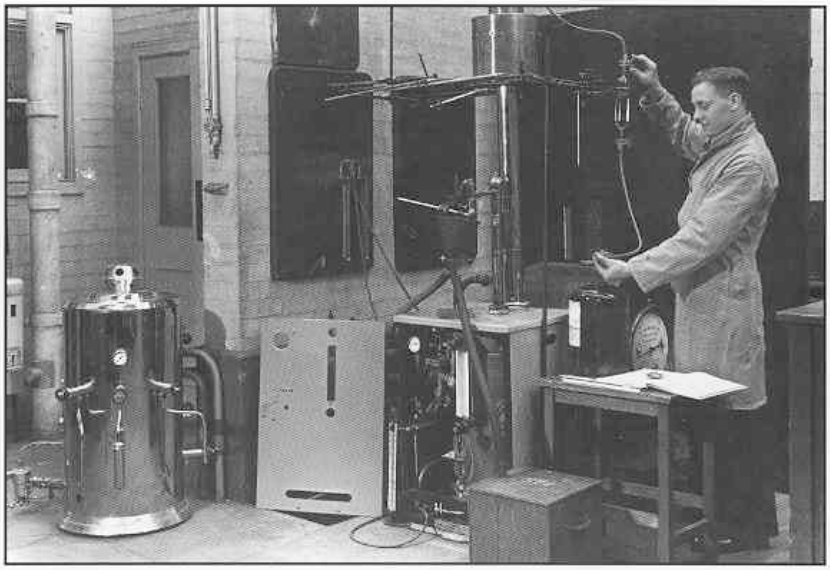
112. More Testing of Gas Water Heaters, c.1950. The Gas Light & Coke Co.
Posed specially for the camera!



113. Captioned Having a Bath. Water Heating Laboratory, Watson House, Fulham, probably late 1960s. North Thames Gas Board. (RFH, neg.669-3).



114. Testing a Storage Water Heater, Water Heating Laboratory, Watson House, Fulham, probably early 1970s. North Thames Gas Board. (RFH, neg.729-3).



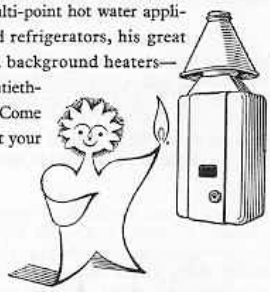
115. Testing a Storage Water Heater. Water Heating Laboratory, Watson House, Fulham, probably early 1970s. North Thames Gas Board. (RFH, neg.729-2).

116. Efficiency Test on a Cafe Boiler. Water Heating Laboratory, Watson House, Fulham, probably early 1970s. North Thames Gas Board. (RFH, neg.729-1).

Is health corked in a bottle?

True health doesn't come out of medicine bottles —it comes out of healthy living conditions. True health comes from such things as the cleanliness of a house with unlimited hot water on tap—from the freshness of food kept in a refrigerator—from the protecting warmth of a house that is ventilated as well as heated.

In all these ways gas equipment can help you and your family to keep in good health. In fact, with his sink-heaters and multi-point hot water appliances, his gas-operated refrigerators, his great variety of gas fires and background heaters—Mr. Therm is the twentieth-century Medicine-man! Come and see how he does it at your gas showrooms.



Good-it's GAS!

THE GAS INDUSTRY MAKES THE BEST USE OF THE NATION'S COAL *Issued by the Gas Council*

H—2* 39

117. Advert. Is Health Corked in a Bottle? Gas Council, 1955.
True Health comes from such things as the cleanliness of a house with unlimited hot water on tap.

Is it hard work keeping the house *dirty*?

How can you possibly keep the home clean, how can you keep the dishes clean, and do the laundry, how can you have the personal cleanliness so necessary to health, without plenty of hot water — and no hard work getting it? It is the most essential of all services in the home and GAS is the *only* fuel that can give you all the hot water you want *instantaneously*, day and night, at the turn of a tap.

150 gallons of hot water per week is the minimum requirement for a family of four. That quantity can be provided by Mr. Therm's Sink Water-Heater at a cost everybody can afford. Whether or not you have any other source of hot water in the home, you still need a sink water-heater.

GAS *SINK WATER-HEATERS*
give hot or boiling water INSTANTANEOUSLY

118. Advert. Is it Hard Work Keeping the House Dirty? Gas Council, 1953. (Picture Post, 28 November 1953).
GAS is the only fuel that can give you all the hot water you want instantaneously, day and night, at the turn of a tap.

PLENTY
OF
HOT
WATER
Quickly
Cheaply
A NEW AND
REMARKABLE
GAS
WATER
HEATER

USE GAS
and save waiting

The "Equator" fitted in a recess (beside the Gas Cooker) and with hot water pipes running to bath, wash-hand basin and scullery sink.

Richmonds "Equator" Heater differs from the ordinary type of circulator in that it has a wide range of output adjusted to give just the right quantity of hot water required in a household, be it large or small, and can be fitted in circumstances where other boilers are likely to fail.

The "Equator" is designed not to look unsightly in the modern kitchen or scullery. The exterior is finished in an attractive and durable black-and-silver lustre shade, which gives it a most clean and pleasing appearance.

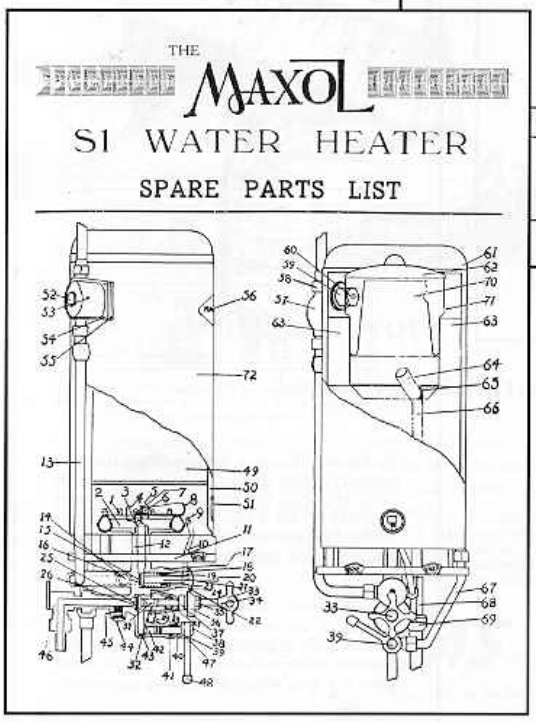
119. Extracts from a Leaflet. Plenty of Hot Water -Quickly, Cheaply.
The British Gas Light Co, Hull, possibly 1950s. (HGT Collection).
Features the Richmond Equator gas fired storage water heater of 1948 (shown at Fig.100).

120. Leaflet. The Maxol S1 Gas Water Heater, c.1954. Maxol, Manchester. (HGT Collection).

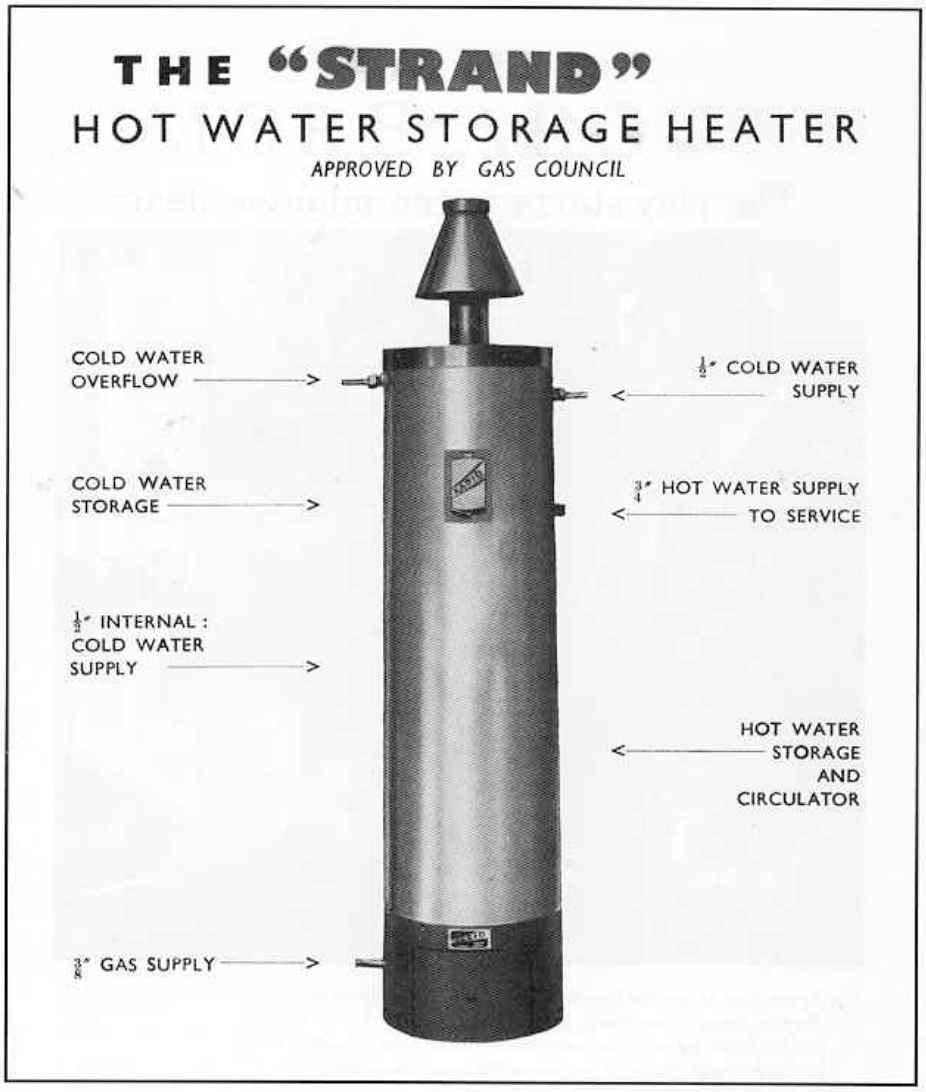
This Attractive Economical MAXOL Heater

SAVES TIME AND MONEY BY DELIVERING BOILING OR HOT WATER QUICKLY AND IN UNLIMITED QUANTITIES ANY TIME AT A MOMENTS NOTICE. JUST TURN THE TAP OF THIS MAXOL GAS HEATER AND THERE'S ALL THE HOT WATER YOU NEED FOR WASHING DISHES, ETC., OR FOR MAKING A POT OF TEA.

Overall Height Without Spout	Gas Connection	Water Connection	Flow of Water Per Minute
20"	¼"	½"	Boiling 2 Pints
			140° F. 4 ,,
			100° F. 8 ,,



121. Spare Parts Booklet. The Maxol S1 Gas Water Heater, c.1954. Maxol, Manchester. (HGT Collection).



122. G.A. Henderson "Strand" storage Water Heater. (Paul Yunnie Collection).

"The play starts in ten minutes, dear"

123. Extract from Advert. The Play Starts in Ten Minutes, Dear. The Gas Council. From Punch, 8 December 1954. Did you know that only a gas water heater can give you an endless flow of hot water -boiling if you want it -that never ceases until the tap is turned off?