

LIQUID FUEL (OIL) BURNERS

Major

Established 1912

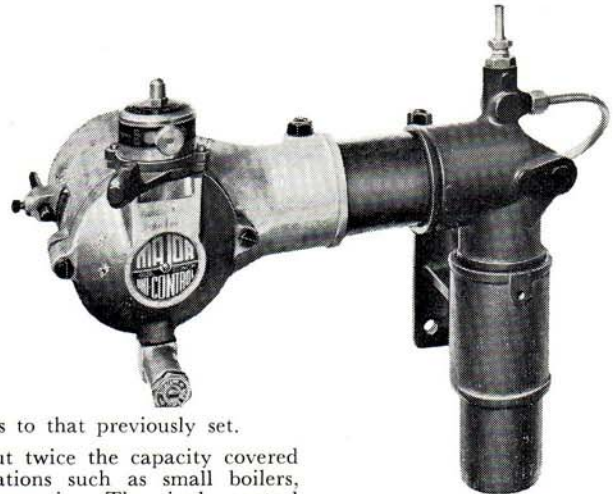
UNI-CONTROL BURNER

These "Major" low pressure air atomising fuel oil burners have the air and oil valves internally coupled so that by the operation of one lever only, constant burning conditions apply throughout their wide operating range, eliminating the need for mixture setting adjustments every time the fire size is changed. A further advantage of this single control feature is that automatic control can be fitted at any time.

The patented feature which makes this possible, is a slot formed by the inter-relation of two rectangular oil ports. Adjustment screws set the width and minimum opening of this slot, and its length is altered by moving the control lever. At the same time as the slot length is varied and thereby the quantity of oil flowing through it, so also is a valve controlling the flow of air through the burner. By these means and the provision of an overriding orifice, the size of which may be pre-set, the desired constant air/oil ratio can be maintained. For ease in starting, the mixture may be temporarily enriched by pressing on the cap by hand. When released, the mixture reverts to that previously set.

The rated maximum atomising capacity of these burners is about twice the capacity covered by the air flow through the burner, and on suitable applications such as small boilers, secondary air may be used to increase the maximum oil consumption. The single control feature may be retained by connecting the secondary air control shutter to the burner control lever through a suitable linkage.

B.L.P. Burners (Data Sheet No. 6) are usually preferable for the firing of boilers other than the very small sizes.



The "MAJOR"
Patent Uni-Control
Oil Burner

DIAGRAM

