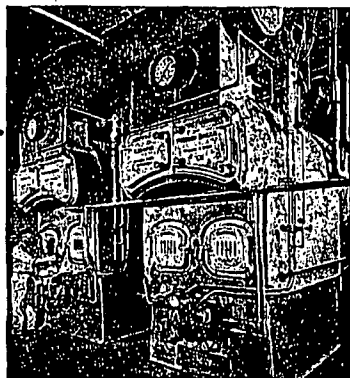


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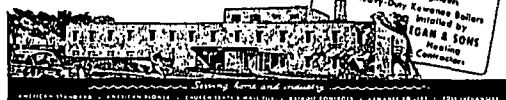
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More TECHNICAL BRIEFS

Many small single units are primarily for space heating type of load cycle. The subject is a better understanding of the characteristics of stokers should specifying or purchasing equipment for this class of

A fundamental characteristic of a small underfeed stoker is (1) maintain ignition over a small portion of the grate is, in the retort zone), (2) expand the active burning band full firing rate. It is very important to maintain accurate air-fuel ratio if high combustion efficiencies are to be maintained over, with widely fluctuating performance of the equipment metering air flow becomes of greater importance.

In addition to accurate air flow rates, the general admission to the fuel bed requires full consideration. For best proper balance must be maintained between the air admission and the fuel to the active grate area of the overall plan area of the combustion chamber. The optimum proportions of these areas is affected materially by load cycle, the peak load on the relation to the length and width of combustion chamber and the characteristics of the coal to be burned.

Under certain operating conditions objectionable smoke may be immediately following the "On-Off" of an intermittently (sometimes referred to as the "On-Off" type of operated unit.

If the stoker firing rate is through a sufficiently wide range to meet the major changes in requirements (instead of the "fill off" method of control), the smoking may be eliminated with use of overfire jets. Otherwise necessary. ASME Paper No. 1000

Application of Single Retort Underfeed Stokers. By D J Morhart, W. C. Elec Corp.

In numbers, the single retort feed stoker continues as an important factor in the field of coal-burning equipment because of low cost of installation. Improvement in performance is possible at an increased cost. Greater care in working out details of application and in control of operation will pay dividends in over-all economy and in reduction of smoke and dust emissions. Available statistics for class of stokers with capacity over 1200

Directions for ordering papers are

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