

Close-up view of leaf-type filter used with Sorbo-Cel by Pullman-Standard

How Pullman-Standard operates boilers on a

1% blow-down basis... with SORBO-CEL

At the Haskell & Barker plant of Pullman-Standard Car Mfg. Co., Sorbo-Cel solved the major filtration problem of removing oil from condensate returned to the two new 50,000 lb-per-hr 400 psi, 750-F boilers.

Pre-Coat Sorbo-Cel end regular Sorbo-Cel, specially processed high flow-rate diatomaceous silica powders, are used on leaf-type filters. After a film of Pre-Coat Sorbo-Cel has been built up on the filter screens, regular Sorbo-Cel is added continuously to the unfiltered water. This means a new filter surface is constantly presented to the oncoming water.

Results... Water filtered by Sorbo-Cel contained less than 0.1 ppm of oil... and boilers have since been operated on a one per cent blow-down basis.

Send coupon below for bulletin giving data on this low-cost way to remove oil from water. No cost or obligation.

Johns-Manville SORBO-CEL

Johns-Manville
Box 60, New York 16, N. Y.

Please send me free bulletin giving advantages of Sorbo-Cel filtration.

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More POWER NEWS

Begin on page 148

ence of engineering in bringing the art of air conditioning to its present great and still growing stature. Central figure among the exhibits for processing indoor climates is the display of the ASHVE itself. This depicts the Society's own research activities along engineering lines.

But the scope of the exposition is all inclusive. Complete heating, ventilating and air conditioning systems are shown as well as equipment units suitable for application in air conditioning designs of all classes. The range of applications extends from low cost dwellings through the entire residential field, including multiple dwellings and housing projects, to business institutions and industrial classifications.

Canadian Oil Piped Over Rocky Mts.

Now oil from the fields of western Canada, at present locked behind the Rockies, will be brought through passes in the mountains by a 700-mile pipeline from Edmonton to Vancouver, British Columbia, to be completed by the end of 1953. Construction, by Trans Mountain Oil Pipe Line Co., of the 24-in. pipeline is scheduled to start sometime in the early part of the year.

At completion, the pipeline will be able to deliver 75,000 barrels per day to Vancouver. By adding four more pumping stations to make a total of six, a capacity of 200,000 barrels per day can be achieved.

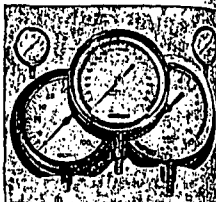
Enforcement of Illinois' new Boiler Safety Act began recently as Ben Bailey, chief Boiler Inspector for the Illinois Dept. of Public Safety, assigned registration No. 1 to a state boiler in Springfield. Under the new act, all commercial type boilers are subject to inspection in the interest of increasing the safety of pressure vessels in the state.

Philadelphia Electric Co. is putting in the largest turbine-generator, 200,000 kw, of its kind in the world at its Phoenixville, Pa. plant, and it will bring the Crosby station capacity up to 350,000 kw.

The Boeing Airplane Co. of Seattle is building a gas turbine-electrical generator unit that will provide electrical power for a new type Navy minesweeper. Twin gas turbines are mounted side by side, with couplings to a generator in rear. First complete unit recently was delivered to John Trumphy & Sons, Annapolis, Md., builders of the new vessel.

In the 10 years since the Fairmont Coal Bureau was formed, approximately 1500 modern postwar installations have included the fuel flexibility sought by the bureau. Those installations, according to Carl Marshall, present director, now represent a potential market of 77 million tons of coal a year, most of it in the area regarded as Fairmont's primary market area.

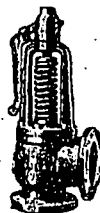
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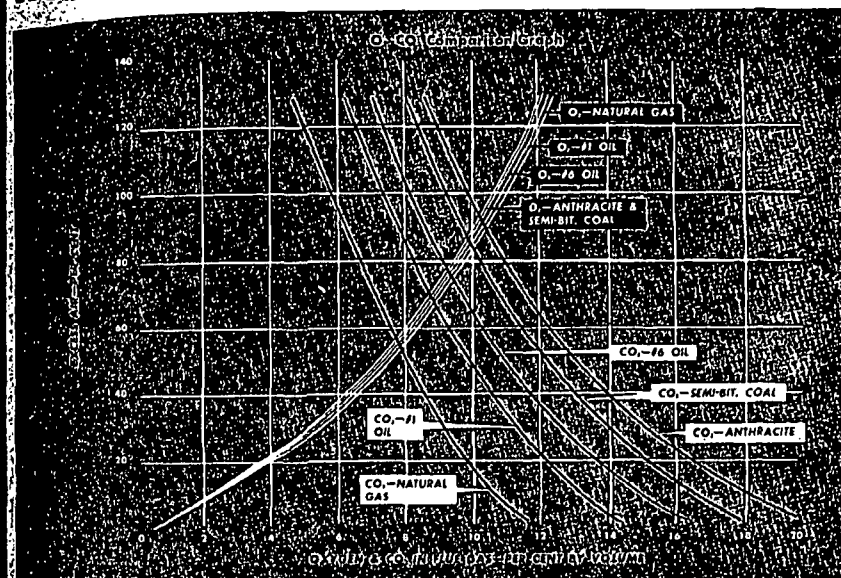
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How to burn Multiple Fuels efficiently



Oxygen and Oxygen alone gives you an undistorted picture of the amount of excess air present.

When switching from one fuel to another or burning more than one fuel at the same time, you can realize large savings with a continuous indication of Oxygen content in your flue gas—because Oxygen and Oxygen alone gives you an undistorted picture of the amount of excess air present.

This fact is borne out by the graph showing the relationship of excess air to CO₂ and O₂ in the flue gas of five common fuels. While the O₂ curves nearly coincide (especially in the important 30% excess air range) the CO₂ curves diverge widely.

Large Savings Possible

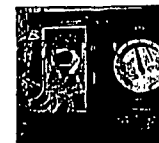
This deviation was costing a medium sized refinery in Michigan \$35-40 per day in boiler room fuel costs. Burning a combination of oil and gas they found that a combustion control system to handle their multiple fuel firing conditions would cost more than their small boilers.

They purchased a Hays Magno-Therm Oxygen Recorder, and immediately found that their boiler operation was so

inefficient that the pen would not stay on the 0-10% chart. However, by operating with reference to the O₂ recorder they were able to reduce fuel costs enough to pay for the instrument in 40 days.

With the Hays Magno-Therm Oxygen Recorder you get

Continuous, highly accurate indication and recording. Complete compensation for temperature and pressure effects. Freedom from chemicals or hazardous fuel burning in the analyzing process. Swift, sure electronic operation.



If you are facing the problem of multiple fuel combustion, you will want a detailed copy of this O₂-CO₂ Comparison Graph as well as Hays Bulletin 50-829—describing the Magno-Therm Oxygen Recorder. Write for this free information.

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