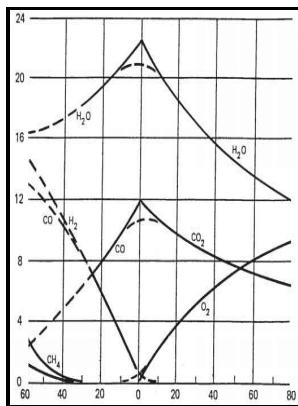


Efficient boiler operations sourcebook

Fairmont Press - Efficient Boiler Operations Sourcebook, 4th Edition



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Notes: Includes index.

This edition was published in 1989



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Page 9 Figure 1-6 Water circulation pattern in a watertube boiler.

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The difference in these signals is inversely proportional to the carbon monoxide present in the stack.

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In real combustion systems, secondary combustion products such as NOx, SOx, CO and solid particles as well as unburned fuel are released due to the complex make-up of the fuel and incomplete combustion.

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It is essential that the boiler be examined prior to testing and that necessary repairs or maintenance be completed. Cinders are reinjected from boiler hoppers.

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Since its analyzing units are located directly in the stack, the in situ unit cannot be used in applications where temperatures are more than 1250 degrees F. This corresponds very favorably with the demonstrated efficiency improvements from field test programs conducted by KVB. Maximum capacity of firetube units has been extended to 69,000 lbs of steam per hour 2,000 boiler hp with operating pressures up to 300 psig design pressure.

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Firetube Boilers Firetube units pass the hot products of combustion through tubes submerged in the boiler water. An oil burner may be equipped with diffusers that act as flame holders by inducing strong recirculation patterns near the burner.

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