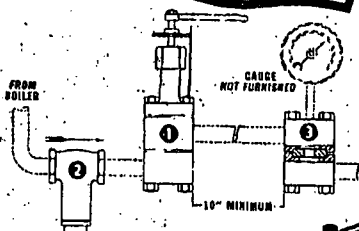


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Strainer

STRONG

reduced boiler maintenance due to less water makeup, should be considered in making a final decision. Henry R. Demling, Bronx, N. Y.

Heat Gain Shown

THE VOLUME of a cylinder, 6 ft in diameter and 65 ft long, is approximately 1837 cu ft. Assuming space occupied by concrete blocks and trucks is 40% of cylinder volume, steam in the cylinder will occupy 60%, or 1100 cu ft. Steam at 100 psi weighs about 0.255 lb per cu ft, hence there are 280 lb of steam to exhaust from each cylinder when the curing is completed. With two cylinders there are 560 lb available for use each 6 hr.

Heat content of the steam would be approximately $560 \times 970 = 543,200$ Btu. If the boiler efficiency is 75%, boiler output per 6-hr period is $(9000 \times 9000) \div 4 = 20,250,000$ Btu. Therefore the heat gain is $543,200 \div 20,250,000 = 2.14\%$. If the exhaust steam is used to heat feedwater.

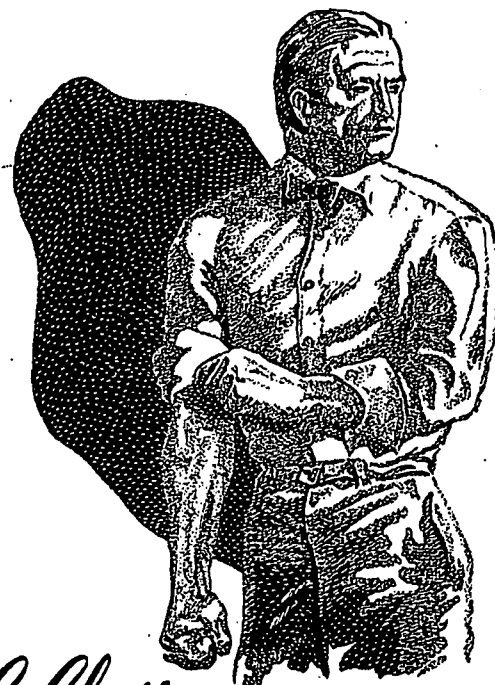
If the exhaust steam is used, a tank having a capacity of 4230 lb or 600 gal is required. This is equivalent to a tank about 4 ft in diameter by 6.5 ft long. Cost of such a tank plus insulation and piping will probably amount to \$1000. Whether the investment is worth while is a problem for management. HW can adjust the figures in the above calculations since no allowance was made for the heat the blocks would give up in cooling from 308 to 212 F. No consideration was given to the heat loss from the feedwater tank and piping, as it would probably be balanced by the gain from the blocks.

A feedwater-storage tank large enough to use up the available exhaust steam will utilize it effectively, though it may not be worth while from an economy standpoint. Irs A Butcher, Piney River, Va.

Believes Open-Type Heater Is Best Bet

IN VIEW OF the short exhaust period, I would not use any elaborate hookup to recover heat from the exhausting steam. I suggest a simple, open-type feedwater heater to have available at all times a supply of hot feedwater for the boiler.

HW could use a pressure-reducing valve to keep steam pressure at 10 psi and an automatic valve to control steam to the hot-water. This valve should be actuated by a thermostat immersed in the heater so the steam will be on only when needed. Set the thermostat for any desired temperature feedwater. HW



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