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FORESIGHT
IS FAR-SIGHT

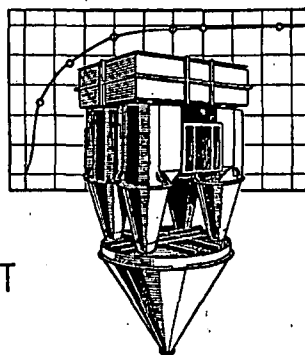
IN PLANNING
Fly-ash
COLLECTION

Blind buying is bad business. It's far better to know just how well new equipment is going to do its job—before you buy. With Buell dust collection systems you can know—fully and exactly—how well your dust problem will be solved. Buell offers a unique, pre-order, fractional efficiency guarantee. It's the only kind of efficiency that accurately predicts dust collector performance. What's more, the guarantee figures may pleasantly surprise you, for only the Buell system has the patented van Tongeren 'shave-off', a really important efficiency development. The complete facts are in a new 32-page catalog—write to the Buell Engineering Company, 10 Cedar Street, New York 5, N. Y.

buell

Engineered Efficiency in **DUST COLLECTION**

146 (510b)



Rotary or Steam Jet?

(Continued from page 85)

the condenser controls the vacuum.

To the left of the curve intersection the air pump is in control. With the assumed leakage rate and given air pump capacity the air pump cannot meet the vacuum the condenser could otherwise produce. Inspection of the air-pump curves show the larger the pump or the greater the number of pumps operated, the more closely approached is the potential vacuum of the condenser. While lower circulating-water temperatures produce better vacuums, the capability of the air pump decreases at high vacuums, so at 65 in. Hg the air pump controls the situation over a greater load range. Nearly in. Hg better vacuum may be obtained with the steam jet.

The condenser characteristics in Fig. 2 were derived by the usual calculation methods employing the data given on the figure and the Heat Exchange Institute heat-transfer rates for condensers (Powen, June 1945, pp 72). Air pump characteristics were calculated from equation (1).

Harry J. Marks, New York representative of Erie City Iron Works, and a life member of National Association of Power Engineers, No. 1, New York, also a life member of American Society of Mechanical Engineers, was recently presented with the R. C. Grimshaw Medal (NAPE) at a meeting No. 1. The citation mentioned Mr. Marks' 57 years' connection with the Association, the high quality of his work, and leadership in his field of specialized engineering.

Watson-Stillman Co.'s President Edwin Stillman announces that an increase, not, as frequently predicted, a leveling or decline in volume of capital goods may reasonably be expected by heavy equipment manufacturers in the next few years.

Addressing a management group of Roselle, N. J., organization on its 100th anniversary, Stillman gave reasons for predicting a growing demand for production machinery, particularly in plastic, metal-working and railroad building industries, for which his company supplies hydraulic equipment. He said that steel pipe fittings is proceeding at such a rate as to tax production facilities of Watson-Stillman's distributor production. Forged stainless steel and alloy fittings, he added, are on the increase throughout industry for corrosive, temperature and high-pressure applications. Welded fittings continue to discover preferences over the screwed type, although the latter still constitute the bulk of shipments.

POWER • August 1951



FREE AIR... but it cost him his business!

Air compressors seldom fail...but they can and do fail under certain conditions. Oil, for example, vaporized and mixed with air, can form an explosive charge... and be touched off by a flick of hot carbon. A clogged intake filter may over-heat... and there's TROUBLE. Remember...unrelieved pressure builds up FAST!

Black, Sivalls & Bryson SAFETY HEADS offer complete protection from explosion due to over-pressure wherever you have a liquid or gas under pressure. In the 100,000 plants where SAFETY HEADS are used, no pressure vessel equipped with a SAFETY HEAD has ever exploded.

If your plant is not provided with the positive protection afforded by SAFETY HEADS have your Safety Engineer write for full information today. Address your letter to Industrial Power Department, Black, Sivalls & Bryson, Inc., 27th Floor, Power and Light Building, Kansas City, Missouri.

*Illustration is an artist's conception of an actual filling station explosion which completely destroyed the building and contents. A Black, Sivalls & Bryson SAFETY HEAD costing only \$5.00 would have relieved the overpressure which caused the explosion.

Ruptured SAFETY HEAD disc, showing full-throated pipe size relief opening.



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