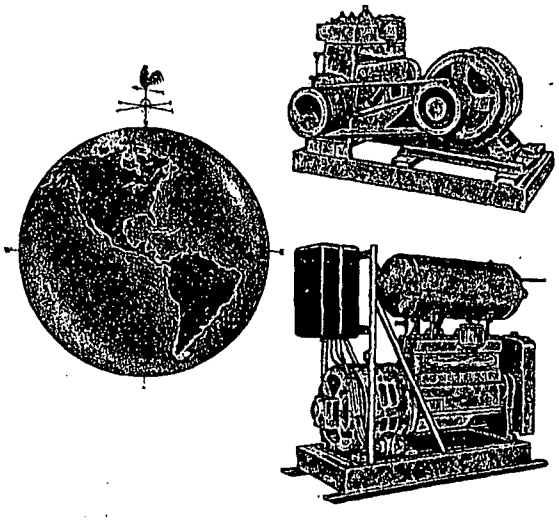
North • East • South • West . . . It's Schramm



. . . doing jobs like these in Your Field

At almost every turn you need compressed air!

The check list (at right) indicates some of the many compressed air jobs to be done, all of which are accomplished easily, quickly and economically with Schramm Air Compressors.

Here's *why* you profit, as others have, by using Schramm: they're compact, lightweight, easy to start; built for rugged jobs, to provide a continuous flow of air.

Important features include 100% water cooled; mechanical intake valve; forced feed lubrication and easy, electric push-button starting.

Performance everywhere has proved Schramm Air Compressors can do any compressed air job you require. Write today for list of models and sizes.

- Operating Pneumatic Hammers and Drills
- Air Chucks
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- Belt Shifters for Heavy Machine Tools
- Cleaning Machines with the Air Jet
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- Pumping Water
- Punches and Presses
- Supplying Power Hammers, Lifts and Jacks
- Operating Drop Hammers
- Spraying Metal
- Spraying Paint
- Operating Precision Measuring Devices

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138 (122b)

amount of water in tower and [illegible] ture in and out.

I am sure if these data are [illegible] and compared, the difference in [illegible] ciency between the two towers [illegible] not seem so great. Arthur J. [illegible] Brooklyn, N. Y.

Forced-Draft Tower Recirculates Air

HB WANTS TO KNOW why his f-d [illegible] uses more air and hp than the i-d. Since both towers have the same [illegible] ity and cooling range it points to [illegible] fact that the f-d tower takes more [illegible] because it doesn't have evaporative [illegible] ciency equal to that of the i-d. This is due mainly to faults inherent in [illegible] design. F-d towers often have from [illegible] to 20% evaporative cooling losses. *This is due to recirculation of hot discharge* air caused by strong fan suction, [illegible] pending on fan locations, prevailing winds and surrounding buildings.

High-velocity draft tends to cause [illegible] turbulence. Also, initial strong [illegible] currents leaving the f-d fan make poor air-water mixing, thus reducing [illegible] orative cooling efficiency of the tower. These faults are eliminated in the i-d tower as large volumes of air enter large area of inlet louvers. The low velocity gives a better air-water mixture and a greatly increased evaporative cooling efficiency. Recirculation of discharged air and air turbulence are also eliminated in the i-d tower. Arthur Belton, Montreal, Que.

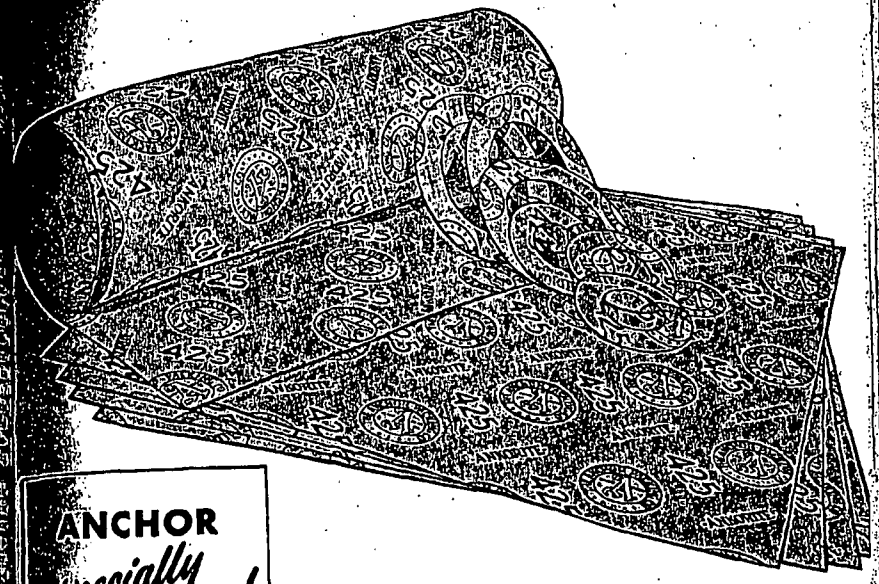
Induced-Draft Tower May Be Newer Design

ONLY THE NOMINAL RATING of *HB's* two cooling towers is given. He gives no information on actual performance of each. It is possible that the i-d tower is capable of carrying a greater cooling load, which might account for its being equipped with a greater fan horsepower. Test data from the maker, if available, would be a basis for comparison.

By using a generally acceptable factor of 0.041 hp per sq ft of tower area he can just about get the installed hp capacity of each tower, as stated in the question.

Difference in tower area and fan hp may be due to the fact that the trend has been for some time, toward i-d towers, which have constantly improved. For that reason it is likely that the i-d fan tower is of more recent design and more efficient.

In my opinion, only a survey [illegible]



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A cream colored compressed asbestos sheet manufactured with great care from long fiber Canadian asbestos. Through a special process, a refined mineral pigment with high heat and age resisting qualities is combined with the asbestos fiber and "felted" into laminated form under heavy pressure, to produce the finished sheet. This sheet is homogeneous and may be depended upon for high pressures and temperatures.

Sizes from 1/64" to 1/8" in sheets 50" x 50", 50" x 150", 60" x 60", 75" x 150", 150" x 150" or multiples thereof.

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