

2 Accelerators

DO A BIG JOB IN A SMALL SPACE!



in a South American DISTILLERY

Two 44" diameter Accelerators treat 2800 gpm of Paraná River water for clarification and color removal at the San Nicolas distillery in Buenos Aires. A portion of the treated water is used for boiler feed with supplementary treatment. Elevated to provide gravity flow of clarified water to filters located overhead, these Accelerators provide water supply in a fraction of the space required by other types of water treating equipment. Learn how the Accelerator can solve your water treatment problem in less space at lower cost. Send for informative illustrated bulletin (see coupon below).



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Plant in Chicago & Joliet, Illinois
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More TECHNICAL BRIEFS

This reduced the maximum stator temperatures by providing much more uniform ventilation than had been previously obtained.

When these improved ventilating techniques were combined with the advantages of high pressure hydrogen as a cooling medium, the most important single factor in both the stator and rotor temperature rise became the thermal drop through the insulation. Inasmuch as no substantial improvement in the thermal conductivity of insulation was foreseen, the next logical step was direct ventilation of the winding copper within the insulation. This was successfully accomplished with the introduction of supercharged cooling in 1951.

The application of supercharged hydrogen cooling to high speed generators has added enormously to the economical utilization of raw materials in their manufacture. Fig 2. It conserves power plant space and affords the user other important economies in foundations, switchgear and bus structure supports.

Because of its favorable operation at elevated pressures, the supercharged machine is especially cool at its overload ratings. Its higher saturation improves its steady state stability and its shorter length makes accurate balancing easy and differential expansion far less serious.

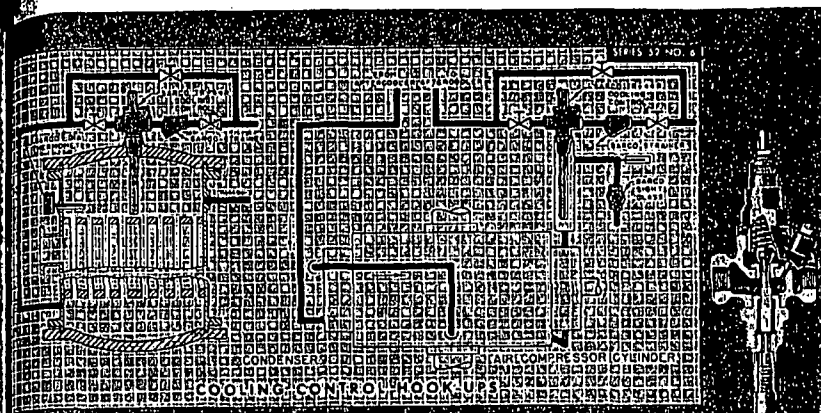
The compressor has no wearing parts, is of heavy plate steel construction and requires no attention whatever. Bearings and seals are smaller, requiring less oil and less maintenance. And the quantity of gas required to fill the machine is greatly reduced. APC Paper no number.

Operating Experience with Large Generating Units. By P. Liveride, Philadelphia Electric Co.

Our experience has shown that the availability of the large turbo-generators is, for all practical purposes, essentially the same as for small units. An examination of the records on this subject revealed that for seven low-pressure 30,000 kw units covering forty-one turbine years, the availability was approximately 95.0 per cent. Correspondingly, for our four large units composed of three 182,000 kw and one 165,000 kw covering twenty-three turbine years, the availability was 93.6 per cent.

The 165,000 kw machine at Richmond Station, grand-daddy of large units, has now been in service for eighteen years. This machine was originally limited to 135,000 except through an emergency.

Directions for ordering papers on p 154



Trouble-Free Cooling Controls

Endorsed by Equipment Manufacturers

Sarco dependable, self-operated temperature regulators with reverse acting valves regulate the flow of cooling water to air compressors, still condensers and heat exchangers in various industries.

Because of the low cost, sturdy construction and trouble-free operation of these liquid expansion instruments, many original equipment manufacturers sell their machines "Sarco equipped." This adds a valuable selling point, lifting their products out of the commonplace.

Sarco cooling controls, designed to meet the specifications of such equipment manufacturers may now be had by individual users at prices possible only because of this quantity production.

Sarco rigid stem cooling controls are now factory-installed by many manufacturers of stationary air compressors, solvent recovery stills, condensers, injection molding machines, hydraulic testing equipment, degreasers, lime slakers and many other types of equipment.

Write for Bulletin No. 700-14 for complete information. No obligation, of course! Sarco Company, Inc., Empire State Bldg., New York 1, N. Y. Represented in principal cities. Sarco Canada Ltd., Toronto 8, Ontario.

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improves product quality and output

