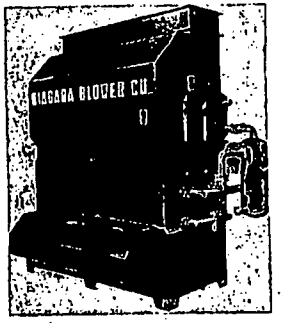
Equipment *Continued*

diaphragm eliminates stuffing box and isolates chemicals from pump parts. Pumps are micro-adjustable over the entire capacity range while in operation. Four sizes are available for flows from zero to 11, 40, 100, to 330 gph. Duplex, triplex, and other multiple-head arrangements are offered for continuous blending or feeding. Various valve designs, diaphragm materials and materials of construction are offered to meet the chemical requirements of specific applications. Process Equipment Div, Lapp Insulator Co, 743 Maple Street, Le Roy, N. Y.

Industrial Power Unit

KRW INDUSTRIAL POWER UNIT comprises Ford 100-hp engine, capable of operation on natural or bottled gas as well as gasoline, assembled with radiator, fan, governor, battery-starting system, and instrument panel. Built-in protective device breaks ignition circuit and stops engine if water temperature rises above 195 F or lube-oil pressure falls below 6 psi. Available in open and closed models, with or without clutch for direct drive, and with extension base for special mounting. Can also be furnished with 20-kw generator or centrifugal pump on same base.

Suitable for direct drive of compressors, pumps, etc, and for generator drive (either regular or standby service), power unit may be rated at 2250 rpm, yielding 64 hp on gasoline and 55 hp on natural gas for short periods, 43 and 36 hp respectively, for constant-duty power. Speed of 1800 rpm is recommended as most economical for loads from 10 to 50 hp. K R Wilson, 215 Main Street, Buffalo 3, N. Y.



Gas Condenser

Two COIL, refrigerant gas condenser passes gas over (1) a dry "Duo-Pass" coil, which, together with an "Oil-Out," removes superheat, condenses and separates oil vapor (2) a wet coil that condenses gas at a low temperature. This last coil is drenched by a water spray to remove 1000 Btu for each pound of water evaporated.

The casing is partitioned so that damper operation permits use of all fresh air or any degree of recirculated air. The proportions vary with condensing load and with changes in air temperature according to weather. All dampers are located internally. *Aero-pass* condensers are manufactured in units ranging from 10 to 100 tons rated capacity. Niagara Blower Co, 405 Lexington Ave, New York 17, N. Y.



Motor Starter

RECENTLY DESIGNED *Valimitor* motor starters may be used at any point on any power system, regardless of the available kva. These new starters are for 2300-4600-v applications. Fault current is limited on any system to about 25,000 kva, which is easily interrupted by the magnetic contactor. As a result all apparatus on the system back to the power source is subject to reduced stresses should a short circuit occur in the motor or line protected by *Valimitor*.

The motor starter is built to provide across-the-line starting for squirrel-cage, synchronous or wound-rotor motors. A style is also available for reduced voltage starting. The 2300-v top rating is 600 hp for 60 cycle and 300 hp for 25 cycle systems. Similar ratings hold for 4150- and 4600-v systems. Electric Controller & Mfg Co, 2700 E 79th St, Cleveland 4, Ohio.

Temperature Instrument

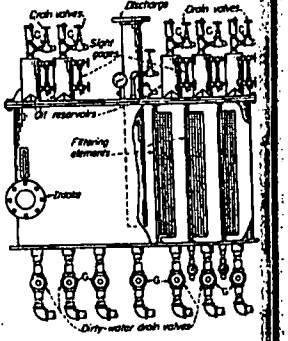
SINGLE CAPILLARY, organic-liquid actuated temperature system is particularly adaptable to applications where (1) a small bulb is required; (2) short range intervals are desirable; (3) manufacturing process is sensitive to mercury; (4) sub-zero temperatures are encountered. The system utilizes a single-bore capillary and a single bourdon spring with a U-shaped bimetallic compensator on the spring for case temperature changes. Uniform charts are used and the system is available with the usual fittings, armor, etc. Taylor Instrument Cos, Rochester 1, N. Y.

Air-Line Filter

MODEL 605 LUBRI-FILTER combines a lubricator and filter and is designed for compressed-air lines. It protects air-driven equipment against dry-running breakdowns and impurities in the air supply. Atomized oil is automatically injected into the air line in proper amounts and oil level may be seen from any angle. Filter is built of aluminum and brass. Jarott Compressor & Equipment, Inc, 275 Central Ave, Newark 4, N. J.

Regulator Diaphragm

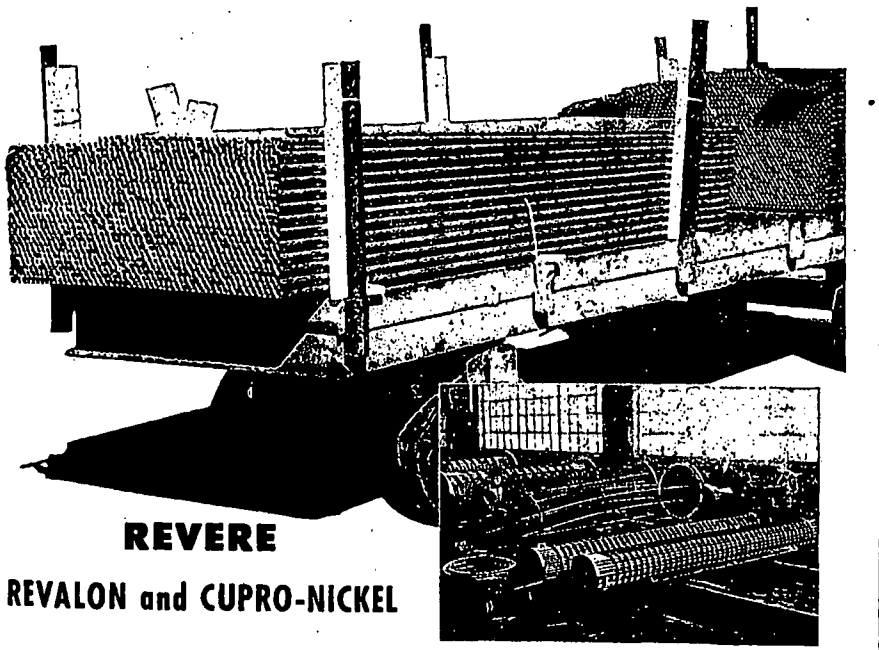
NYLON FABRIC is combined with rubber to make a new sheet material for pressure-regulator diaphragms. The new material has greater flexibility, is lighter in weight, and has higher bursting strength and improved sensitivity, says the manufacturer. It can be supplied in sheets 36 in. wide and 1/32, 1/16, ⅛, 3/16 and ¼ in. thick. Sheets may be die cut to fit various pressure regulators used to control the flow of water, air, oil, steam, acetylene, illuminating gas, chemicals and other liquids and gases. U. S. Rubber Co, Rockefeller Center, New York, N. Y.



Deoiling Apparatus

DEOILER REMOVES OIL, oil emulsions, scale and decomposed oil from boiler feed water and from water for industrial processes. It consists of a closed vertical cylindrical shell that contains the separating and filtering elements. Knitted steel wire, the basic separating material, is placed on hollow cylinders with walls of appropriate thickness for the particular design. Usually each unit has three cylinders

MEETING SPECIAL CONDITIONS



REVERE

REVALON and CUPRO-NICKEL

Because each condenser and heat exchanger presents its own special combination of conditions, no blanket recommendations for condenser tube alloys are possible. However, this much can be stated authoritatively: there are three Revere Metals which deserve special consideration in cases of limited or unsatisfactory tube life. Here they are:

Cupro-Nickel, 30%. Withstands high operating temperatures. A tenacious surface film forms on this metal, which resists impingement attack and erosion, salt water, and waters containing organic material. Widely used in marine and seaboard installations, the tropics and subtropics.

Cupro-Nickel, 20%. Similar to Cupro-Nickel, 30%, but lower in price and somewhat less resistant to certain types of corrosion.

Revalon (Aluminum Brass). This Revere Metal contains a small proportion of aluminum, which gives it a long life in applications where water velocities are high or water is saline. The film formed on this tube is tenacious and self-healing, rendering it highly resistant to impingement attack.

Which of these types to select, or which of the five other types of Revere Condenser Tubes should be chosen, depends on individual conditions. The Revere Technical Advisory Service will gladly collaborate with you in arriving at a decision as to the most economical tubes for your plant.

REVERE

COPPER AND BRASS INCORPORATED

Founded by Paul Revere in 1801

230 Park Avenue, New York 17, New York

Mills Baltimore, Md.; Chicago, Ill.; Detroit, Mich.; New Bedford, Mass.; Rome, N.Y.—Sales Offices in Principal Cities, Distributors Everywhere.