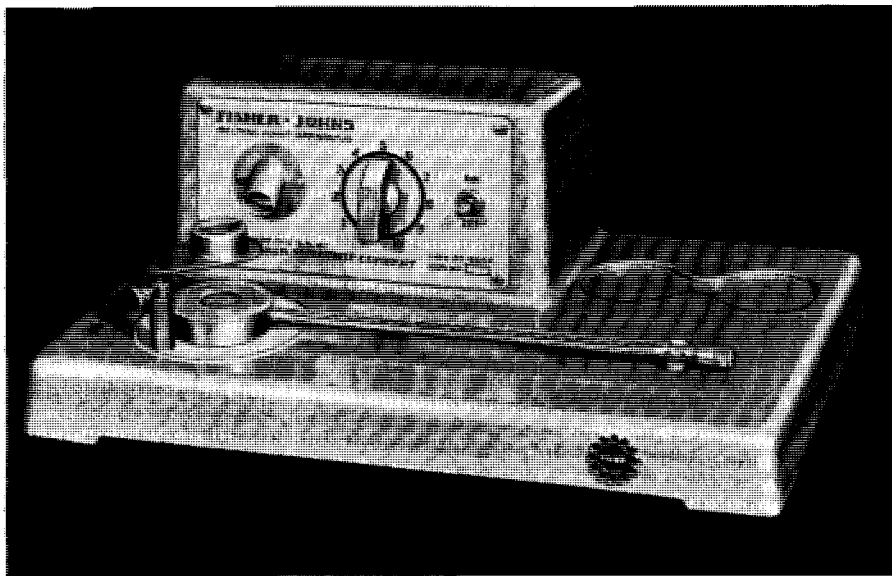


NEW PRODUCTS AND EQUIPMENT

Redesigned Melting Point Apparatus



The Fisher-Johns melting point apparatus introduced by Fisher Scientific in 1937, which eliminated the hot sulfuric acid and capillary tubes of previous melting point devices, has now been redesigned by Fisher. In the new model the control unit and heating stage have been combined in a single compact unit, and the control has been simplified with the variable transformer graduated in per cent of total power input. Accuracy of the unit without calibration 1° to 2° C., with calibration $\pm 0.5^{\circ}$ C. **PE 1**

Pressure Filter

A pressure filter for dewatering granular material is available from the Hydro-Blast Corp.

Material is fed into the filter machine in a slurry form and is discharged at less than 10 per cent moisture content by weight. The machine is operated automatically by electric timers. The dewatering is accomplished by compressed air, at 85 lb./sq. in., with an average air consumption of 15 cubic feet per minute.

Capacities of up to 5 tons per hour are claimed for the machine. **PE 2**

Teflon Filter Cloth

Teflon filter cloths are available from the National Filter Media Corp. Teflon, tetrafluoroethylene fiber, is attacked only by fluorine gas, molten alkalis, and tri-chlorine fluoride. The filter cloth is almost chemically inert and has a high service temperature. In addition the Teflon is resistant to molds and mildews. **PE 3**

Density Gradient Analysis Set

A density gradient analysis set is available from the Microchemical Specialties Co. The gradient set makes it possible to establish rapidly and with

extreme sensitivity the identity or non-identity of origin of two materials. Comparative analyses of glass, soils, sand, rock, and mineral materials are provided for. Samples of 25 mg. or less are sufficient for the gradient density analyses.

The set consists of 11 density gradient liquids and bottles, bottle rack, glass tubes and stand, densitometer, and a combination delivery and suction head. **PE 4**

Flaked Ice Machine

A flaked ice machine with new engineering features which are said to contribute to simple design and efficient operation is being manufactured by the Burge Ice Machine Co.

The machine is designed to produce flake ice at a cost of from \$1.50 to \$2 per ton, on an uninterrupted 24 hour service schedule.

The fully automatic machine is available in 3 different models rated to produce 3, 5, or 13 tons of ice per day. **PE 5**

Continuous Water Softener

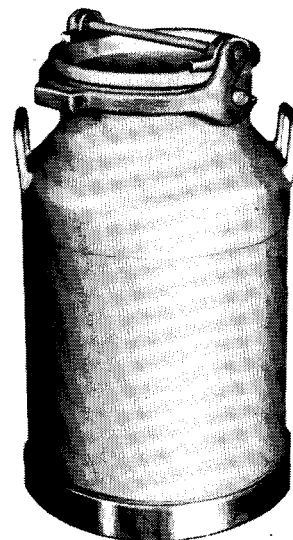
A water softener for the continuous softening of process water containing 200 p.p.m. or less of total hardness has been developed by the Dorr Co. The softener will produce an effluent containing 5

p.p.m. of total hardness, suitable for boiler feed water. The continuous softening process is based on an ion exchange resin, which is continually regenerated with brine in a separate column, thus eliminating batch type operation.

The Dorr company claims that the greatest advantage of the softener is the uninterrupted production of treated water of constant quality.

The system can also be operated on a part time basis. Softener units are available to treat from 75 to 800 gallons of water per minute. **PE 6**

Aluminum Transport Can



Seamless aluminum transport can available from Chemical & Power Products Inc. The can is intended to replace stainless steel containers for storing chemicals and food products. The manufacturers say that the aluminum cans weigh only 1/3 as much as stainless steel ones of equal capacity. Available in 9 sizes from 3 to 60 quarts **PE 7**

Laboratory Balance

The Torsion Balance Co. is manufacturing a laboratory balance for weighing as low as 5 mg. and with a capacity of 120 grams. The balance pans are enclosed by a transparent cover which permits the balance to function with a 100 gram weight on the pan with the lid closed. Balance pans are of stainless steel and the corrosion resistant metal case has a glassed front for viewing the graduated beam and index. **PE 8**

➡ See coupon, page 334, for further information ➡