

# NEW PRODUCTS AND EQUIPMENT

## Plastic Trays for Food Processing

A new fiberglass reinforced plastic tray which stacks and locks has been developed by the Molded Fiberglass Tray Co., of Linesville, Pa., producers of Toteline products. Stacking lugs on four sides permits a stack of trays to be held at a 45° angle without danger of toppling. The tray eliminates the necessity for racks as the sides are open, permitting the passage of air through them. The manufacturers claim that the lightweight material from which the trays are molded is extremely durable and will not dent, warp, or rot. This rigid non-corrosive tray is dimensionally stable from -60° to 300° F. and is unaffected by most chemicals and alkalis.

The trays are recommended for freezing, dehydrating, and other food, chemical, and pharmaceutical material handling operations. **PE 1**

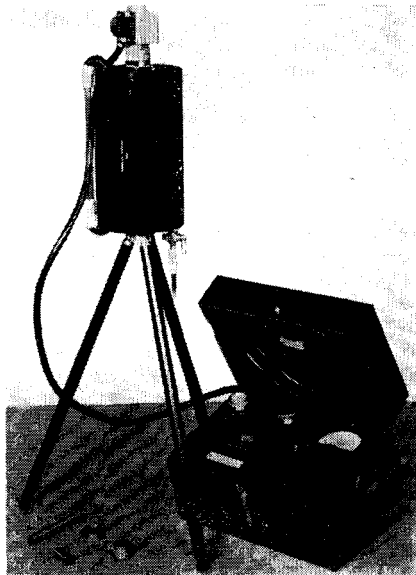
## Vacuum Evaporator for Heat Sensitive Foods

The Pfaudler Co. is producing a stainless steel vacuum evaporator for processing heat sensitive foods. The company is a major producer of glassed steel and alloy equipment for the chemical process industries.

The evaporator operates at low

## Thermal Precipitator

This thermal precipitator manufactured by C. F. Casella & Co. Ltd., is available from Mine Safety Appliances Co. The instrument is described as well suited for highly accurate sampling of all kinds of airborne particles, particularly dust clouds. **PE 2**



processing temperatures, which keeps scaling and corrosion at minimum levels. The unit operation is based on the vaporization of a fluid film under reduced pressures which also lower the boiling point of the liquid being evaporated. **PE 3**

## Semi-Automatic Filling Machine For Wide Range of Products

A semi-automatic filling machine that fills food, dairy, chemical, and similar semi-liquid products into a variety of containers, including tubes, has been developed by the Fuller Machine Co. According to the manufacturers, the portable unit will accurately fill between 15 and 55 containers per minute depending on the products and size of the containers being filled.

The contact parts of the machine are made of stainless steel and Monel metal for sanitary operation. The machine is supplied with a 25 gallon stainless steel hopper and a separate motor driven agitator can be supplied for use with products that must be constantly mixed. It is recommended by the manufacturers as an ideal filling unit for use in small or large plants where the expense of a fully automatic filling machine would not be justified for the work to be done. **PE 4**

## Refined Guar Gum for Food Processing Applications

Commercial quantities of guar gum are available from Stein Hall and Co. Tradenamed Jaguar, the material is prepared in various mesh sizes. According to Stein Hall, the gum produces high viscosities at low concentrations, jells quickly in cold water and develops its properties over a wide pH range.

Jaguar is a refined hydrophylic colloid, and has been approved by the FDA in standards of identity for both cheese and salad dressings. **PE 5**

## Pulverizer Grinds Wide Range Of Product Sizes

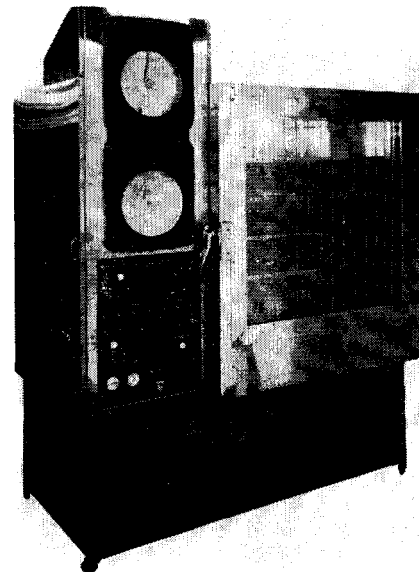
The feature of the Schutz-O'Neill pulverizer is its versatility in producing a wide range of product sizes from 20 to 400 mesh. Particle size of the finished product is regulated in 4 grades; coarse, from 20 to 80 mesh fine, superfine and ultrafine. The ultrafine particles range from 3 to 5 microns.

The pulverizer is based on the use of centrifugal force and air currents to grind by shear and impact, with simultaneous internal classification and recycle of oversize particles.

A temperature and humidity control is combined with the unit and makes it possible to obtain various levels of temperature and moisture in the finished product.

The pulverizers are available in 5 sizes, providing capacities from 50 to 5000 pounds. **PE 6**

## Atmosphere Control Cabinet



This atmosphere control cabinet is designed by Package Materials Laboratories for testing products in various environments of temperature and humidity. The device has a range of 18% to almost 100% relative humidity and temperature variation from 20° to 200° F. **PE 7**

## Labeled Organic Compounds Available for Tracer Studies

Nuclear Instrument & Chemical Corp. has added 4 new aromatic, and 15 amino acids to its list of radiocarbon compounds available for tracer studies.

Benzene, toluene, benzoic acid and benzaldehyde are the aromatic compounds. They are available in 1, 0.5, and 0.1 millicurie unit packages.

The amino acids range from glycine to phenylalanine, with activities from 2 to 9 millicuries per millimole. The high specific activities of these compounds should facilitate their detection in high dilution. The amino acids are available in 4 package sizes ranging from 1 to 0.01 millicuries. AEC licensing is necessary for purchasers of these radioactive compounds. **PE 8**

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