

New Products and Equipment . . .

Fumigant Application

Tryco Mfg. Co. has announced a new model pump-engine unit designed for rapid application of heavier-than-air grain fumigants in round or flat storage buildings. Called the model F-100, the unit has a vane-type pump that delivers up to 19 gal. per min., and is equipped with special packing that will withstand the penetrating action of the fumigants, the company says.

Further information is available from Dept. A&F, Tryco Mfg. Co., 1600 N. Calhoun St., Decatur, Ill.

Automatic Bag Release For Bagging Scales

Richardson Scale Co. offers an automatic bag release that converts a bagging scale with a universal air-operated bag holder to automatic operation. The air-operated bag release increases bagging speeds and is said to lower labor and production costs per bag with existing equipment. It can be used with textile and paper-wall bags. Its controlled cycle is said to reduce "sifting" through textiles, and end breakage of paper bags.

For more information, write Dept. A&F, Richardson Scale Co., Clifton, N. J.

Insecticide Intermediates

Two amines, 1,3-diaminopropane and imino-*bis*-propylamine, have been introduced by Union Carbide. The company suggests that both compounds, because of their structures, may be of interest as intermediates for insecticide synthesis. Both are liquids and are soluble in water and common organic solvents.

More data are available from Dept. A&F, Union Carbide Chemicals Co., 30 E. 42nd St., New York 17, N. Y.

Pump for Fertilizer Solutions

Deming Co. is marketing a self-priming, portable, centrifugal pump for handling liquid fertilizer.

Called the Fig. 3307, the pump is powered by a 2.25 hp. Briggs & Stratton 4-cycle engine, selected to ensure service power when pumping solutions weighing as much as 11 to 12 lb. per gal.

A shaft slinger deflects any stuffing box leakage that might occur from entering the engine crankcase. This assures longer engine life.

Parts which come in contact with the liquid being pumped are cast iron and Type 316 stainless steel. It is

suitable for handling aqua ammonia and ammonium nitrate solutions.

More details are available from Dept. A&F, Deming Co., Salem, Ohio.

Continuous Process for Fat Rendering

A continuous fat rendering process, said to be faster, more efficient, and higher yielding than previous methods, has been announced by De Laval Separator Co.

Named the De Laval Centriflow rendering process, the method uses equipment based on centrifugal separation principles. According to the manufacturer, the system lowers processing temperatures and reduces processing time, thereby yielding a high quality fat and protein.

In the Centriflow process, fat trimmings are minced, heated, and pumped to the disintegrator, which shreds the tissue and frees the fat for efficient separation in the deslugger. The deslugger is a horizontal conical bowl centrifuge with a screw type conveyor for continuous discharge of fat and protein.

Fat discharged from the deslugger is further heated before it is passed through a continuous deaerator for removal of light fractions. Fat then goes into a purifier for removal of fine protein traces and residual moisture. Purified fat is then cooled and stored.

More information is available from Dept. A&F, De Laval Separator Co., Poughkeepsie, N. Y.

Reagent for Insecticide Analysis

Synorganics, Inc., announces the availability of research quantities of diisonitrosoacetone mono-dibutylamine salt. It is being offered as a stable analytical reagent suitable for rapid detection and quantitative colorimetric determination of trace quantities of organophosphorus halides, acid anhydrides, acylating agents, and positive halogen compounds. A characteristic intense magenta color is produced in the presence of these materials. In this manner, small quantities of TEPP, Paraoxon, and parathion may be conveniently determined. A technical data sheet is available from Dept. A&F, Synorganics, Inc., P.O. Box 7627, Baltimore 7, Md.

Sprayer Delivers Spectrum

A research and development machine that automatically sprays a logarithmically decreasing dosage of chemical is available in the U. S. from Geigy Agricultural Chemicals. Developed in 1955, it will put down a

complete spectrum of concentrations on a plot at one time, making it possible to pinpoint the optimum dosage of an agricultural chemical being tested. Actual dosage rate at any point along an experimental or demonstration plot can be easily calculated.

Further data can be obtained from Dept. A&F, Geigy Agricultural Chemicals, P.O. Box 430, Yonkers, N. Y.

Photometer

American Instrument Co. has introduced what it calls a remarkably sensitive and accurate absolute light-scattering photometer. It permits studies of high-molecular-weight compounds, determination of particle sizes in the micron and submicron ranges, and recording of haze and turbidity in moving streams of liquid.

The complete instrument consists of a mercury-vapor lamp, optical unit, lamp stabilizer ballast, photomultiplier photometer, square turbidity cell, and dissymmetry cell.

Complete information is contained in Bul. 2295, available from Dept. A&F, American Instrument Co., Inc., 8030 Georgia Ave., Silver Spring, Md.

Research Sprayer

A sprayer designed specifically for research is introduced by F. E. Myers & Bro. Co. It is said to have the performance features of large equipment and the mobility of small sprayers. The sprayer can be mounted on tractors, trucks, or trailers.

It has a 25-gal. tank, and is protected against corrosion by a "fire-cured" epoxy coating. A 4-gal.-a-minute pump has Ni-Resist cylinder shells, hardened stainless steel valve seats, and chrome-plated stainless steel valves. A high-pressure regulator provides a pressure range of 100 to 300 p.s.i. and a low-pressure regulator offers pressure ranges of 20 to 100 p.s.i.

Further information is available by writing Dept. A&F, F. E. Meyers & Bro. Co., 302 S. Orange St., Ashland, Ohio.

Purified Papain

Meer Corp. is offering a purified papain to the food industries. Meer has developed a purification process which removes foreign matter, including the inactive and hard-to-filter colloidal proteins, and makes it possible to maintain a low moisture content.

Samples and quotations can be requested from Dept. A&F, Meer Corp., General Sales Office, 318 W. 46th St., New York, N. Y.