

# NEW PRODUCTS AND EQUIPMENT

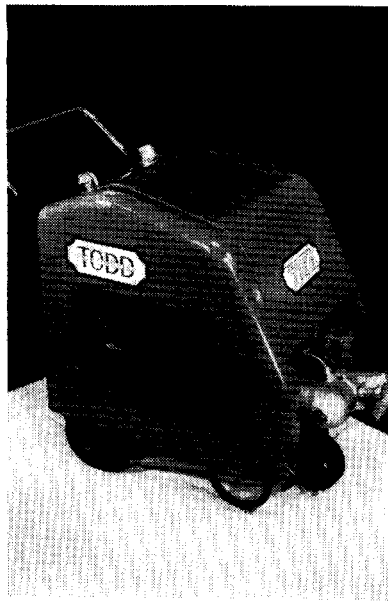
## Electrically Powered Insecticide Fog Generator

A portable electrically driven insecticidal fog generator designed for indoor use has been developed by the Combustion Equipment Division of Todd Shipyards Corp.

The electrical fogging device is a smaller version of the original TIFA, Todd Insecticidal Fog Applicator, which was a gas powered unit for outdoor operation. The new unit was designed to provide a compact insecticide dispenser which would create no fire hazard for indoor use.

Both the indoor and outdoor generators work on the same principle. They convert liquid solutions of insecticides into aerosol fogs, similar to the emissions from smoke generators. The fog not only kills insects but also leaves a residue behind which will kill insects on contact.

The unit operates on 110 volt AC current and has been approved for indoor use by the Underwriter's Laboratories. **PE1**



## New Radiocarbon Compounds Available

Five new radioactive carbon compounds have been added to the list of those available from the Nuclear Instrument & Chemical Corp.

Of especial interest to workers in nutrition and metabolism research, is the availability of Adenine-8-C<sup>14</sup>, Pyruvamide-2-C<sup>14</sup> and Pyruvamide-3-C<sup>14</sup>. Adenine is the general constituent of nucleic acid and nucleoprotein while pyruvic acid is a central compound in carbohydrate metabolism.

Acetyl bromide-1-C<sup>14</sup> and Acetyl bromide-2-C<sup>14</sup> should serve useful to organic chemists as a method of introducing labeled acetyl groups into chemical compounds. **PE2**

## Dehumidification System For Ship Cargo

The Shipbuilding Division of Bethlehem Steel Co. has designed a dehumidification system for cargo holds which they claim provides positive protection against moisture damage. The system was designed primarily to enable the steel company to deliver steel by cargo ships to its Pacific coast customers. However, it might prove to be of interest to shippers of perishable goods and products susceptible to mold, mildew and other forms of moisture damage.

The dehumidification system removes moisture from the air entering the cargo holds and prevents "sweating" of the hold bulkheads and the dripping of this

moisture onto the cargo. The moisture is removed from the air by a Kathabar dehumidifier employing lithium chloride base absorbent solution. **PE3**

## Self Priming Filter Pumps For Corrosive Solutions

The Sethco Manufacturing Co. is marketing a line of filter pumps for handling corrosive solutions. Sethco claims that the pumps will handle both acid and alkaline solutions from pH 0 to pH 14 and that the filter will remove particles down to 1 micron in size.

The stainless steel pump is self priming with a suction lift of approximately 15 feet. The pump is rated to deliver 6 gallons per minute and will develop 40

pounds per square inch before shut off. The standard power supply is a 1/4 horsepower, 110 volt, 60 cycle motor; however, motors wired for 50 cycles and 220 volts are also available. **PE4**

## Antibiotic for Grass Diseases

An antibiotic turf fungicide for the prevention and treatment of turf diseases is available from the Upjohn Co. The preparation, Actidione ferrated, is recommended for treating fungus and rot infections of grass. The material can be applied as a spray and in addition to its fungicidal properties, the company claims that it will make grass greener. Upjohn claims that it is an ideal fungicide because it does not interfere with the nitrogen cycle in the soil which is essential to grass growth. **PE5**

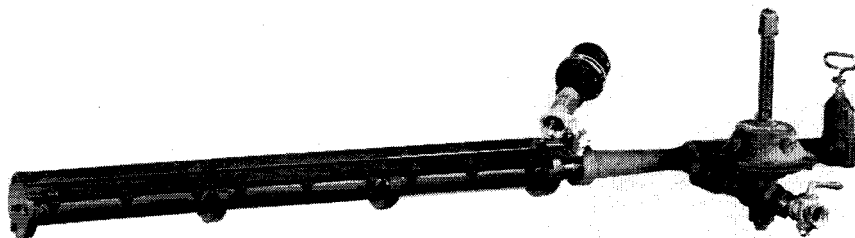
## Catalytic System for Air Pollution Abatement

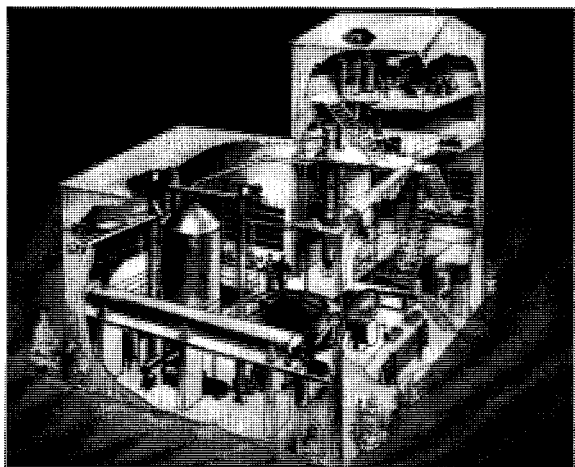
A catalytic system for the oxidation of combustible gases and fumes recently demonstrated in a coffee roasting plant may find application in other air pollution problems. The system called the Oxycat is composed of porcelain rods coated with alumina and platinum alloy. The catalytic surface is supposed to permit burning of combustible gases and fumes at much lower temperatures than those required for flame incineration.

The inventors claim that the Oxycat is suited for installation on incinerators where it removes smoke, odors and combustible vapors from incinerator exhausts. **PE6**

▶ Use coupon, page 638, for further information ▶

Gas fired retention type line burner now being produced by the Eclipse Engineering Co., Rockford, Ill. The new burner, designed for application where heat must be distributed over a wide area by a continuous flame, is said to be adaptable for oven and kettle heating, and hot air installations. The heaters are of a blast burner design which the manufacturers claim ensures good combustion with rich neutral or lean mixtures at all mixture pressures. **PE7**





Cutaway view of the Lukenweld packaged process cottonseed oil extraction plant

### Packaged Plants for Solvent Extraction of Cottonseed Oil

A new development in cottonseed processing is the series of "package plants" for the solvent extraction of cottonseed oil. The plants are designed and engineered by the Lukenweld Division of the Lukens Steel Co. The designers claim that the process is cheaper than other oil extraction methods because it eliminates the costly prepressing operations.

The process is based on a filtration extraction system developed by the Southern Regional Research Laboratory of the US Department of Agriculture.

The Lukenweld solvent plant is made of standardized components, and is available with capacities from 75 to 150 tons, or larger. Lukenweld claims that their packaged plants reduce labor costs in oil extraction up to 75%, because of simplified operation which is continuous and automatic. **PE8**

### Vibrating Feeder with Flexible Feed Rates

A vibrating solids feeder with a wide range of out put rate is being marketed by the Richardson Scale Co. The feeder can be regulated to deliver from 0.1 to 20 cubic feet of material a minute. It is designed to handle a wide range of solid materials including grain, feed, rock and other chemicals.

The feeder is powered by a 1/8 horsepower motor. The motor gives a vibration frequency of 1850 vibrations per minute, at maximum amplitude. The conveying rate is 50 feet per minute. Feed rate, controlled by a handle at the side of the machine, can be adjusted while the feeder is operating.

Normal angle of feed is 5 degrees downhill. Richardson claims that the feeder will deliver at an angle of 5 degrees uphill, with somewhat decreased output. **PE9**

## LITERATURE AVAILABLE

**Antioxidant.** Technical bulletin gives advantages and applications of antioxidant to the dairy products industry, includes a bibliography of research in the field. CHERRY-BURRELL CORP. **L1**

**Bag Closer.** Brochure on a portable bag closer, which operates on 110 volt AC current and closes up to 200 bags per hour. DAVE FISCHBEIN CO. **L2**

**Biochemical Catalog.** Price list of special products for research includes biochemical and nutritional preparations. GENERAL BIOCHEMICALS INC. **L3**

**Bulk Delivery Equipment.** Bulletin outlines the advantages of bulk material transport, also pictures some bulk feed bodies which can be installed on various trucks. HIGHWAY EQUIPMENT INC. **L4**

**Bulk Materials Handling.** Bulletin describes a line of bulk storage bins with suspension discs which prevent bridging and packing of the stored product. THE DAY CO. **L5**

**Chlordan.** Technical bulletin, contains a table of pests controlled by chlordan and recommended concentrations of the insecticide for effective control. VELSICOL CORP. **L6**

**Corrosion of Cement.** Comprehensive chart shows resistance of 7 classes of corrosion resistant cement to 297 of the most generally used corrosive chemicals. PENNSYLVANIA SALT MANUFACTURING CO. **L7**

**Dispersants.** Technical bulletin gives characteristics and properties of a group of dispersants for deflocculation and dispersion of insoluble particles in aqueous media. MARATHON CORP. **L8**

**Dust Filters.** Bulletin presents performance characteristics, dimensions, and performance data on a line of air filters for industrial application. THE DAY CO. **L9**

**Electric Heating Devices and Controls.** Catalog describes a line of electric heating devices and controls for industrial, laboratory and processing op-

erations. WAAGE ELECTRIC INC. **L10**

**Exhaust Fans.** Features of a line of exhaust fans are described. Performance tables, characteristics and dimensions are given. THE DAY CO. **L11**

**Household Insect Control.** Technical bulletin recommends various methods of application chlordane for the control of different household insects. VELSICOL CORP. **L12**

**Lawn Insects.** Booklet describes the more common lawn insects and recommendations for control of these insects with chlordane. VELSICOL CORP. **L13**

**Metal Detectors.** Technical bulletin on an electronic metal detector which detects and culls out products which have been contaminated with metal particles. E. W. BRILMAYER LABORATORIES **L14**

**Mosquito Control.** Technical bulletin outlines the life history of the mosquito and the recommended practices for control of the mosquitoes with Heptachlor, a chlorinated hydrocarbon insecticide. VELSICOL CORP. **L15**

**Pulverizer.** Describes the principle of pulverization by air attrition and impact, with simultaneous classification. SCHUTZ-O'NEILL CO. **L16**

**Sealing Ribbon.** Technical data sheet featuring specifications application methods and test results on a new weather-proof, watertight, fabric reinforced sealing ribbon. MINNESOTA MINING AND MANUFACTURING CO. **L17**

**Tubular Couplers.** Catalog gives sizes, dimensions, unit weights and capacity of a line of tubular couplers. SNAP TITE, INC. **L18**

**X-Ray School.** Folder on X-Ray diffraction school, gives the history, schedule and names of lecturers for a week long school in X-ray diffraction. The folder contains a mailing card for those who wish to register for the course in the fall of 1953. NORTH AMERICAN PHILIPS CO. **L19**

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