

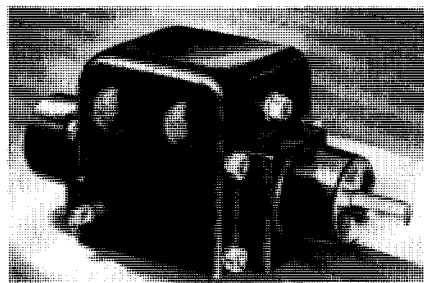
NEW PRODUCTS AND EQUIPMENT

Fraction Collector for Column Chromatography

The Research Equipment Corp. has developed an automatic fraction collector which permits the operator to collect the effluent of the column chromatography in well defined fractions by either timed or volumetric measurements. The electronic timer collector may be set to receive timed flow at intervals of 30 seconds to 50 seconds. Three volumetric siphon assemblies are available for fractions ranging from 3 ml. to 25 ml.

On timed flow the unit will collect up to 400 samples of approximately 10 ml. apiece or with standard equipment up to 100 fractions of approximately 100 ml. apiece.

Hastelloy Internals For Synthetic Rubber Pump



The Eco synthetic rubber pump, now available with Hastelloy-B or Hastelloy-C shaft, eccentrics and guides. Hastelloy-B permits the handling of boiling hydrochloric, sulphuric and mixed acids while Hastelloy-C extends pump service to highly oxidizing acids and such oxidizing agents as free chlorine and bleaching compounds.

The Eco pump is a positive displacement oscillating rotary type, designed for quiet, turbulence-free pumping of chlorine bearing fluids, acids, alkalis, and a variety of organic and inorganic chemicals compatible with its synthetic rubber body. Capacities up to 10 GPM and pressures to 100 PSI are realized at a sustained 1725 RPM. Other operating features are high suction lift, self-priming, and unexcelled linear flow. The Eco synthetic rubber pump is rugged in construction, comparing favorably with metallic pumps. All threads are molded internally to minimize strain. Impellers are of duPont Neoprene, Hypalon or Teflon. All parts interchangeable, size for size, with Eco All-Chem stainless steel pumps and standard bronze process pumps. Synthetic rubber pumps in stock for immediate delivery **PE1**

Supplemental equipment will permit collection of fractions up to 100 ml. on a volume basis.

The Reco fraction collector operates on 110 volts, 50/60 cycles AC with a heavy duty reduction motor to operate accurately and continuously for any period required. **PE2**

All Purpose Emulsifier

Ninol laboratories has introduced a new product that is claimed to approach the goal of a universal agricultural emulsifier. Called Toximul 500, the emulsifier consists of a blend of anionic and nonionic surfactants. The emulsifier is claimed to give outstanding results with at least a dozen different toxicants, using only 3 or 4% of emulsifier over a range of water hardness from 50-1000 p.p.m. **PE3**

Radioactive Carbohydrates

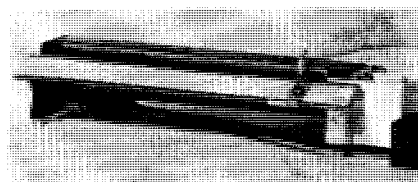
Four carbohydrates tagged with Carbon-14 are now available from Tracerlab.

The new, uniformly labeled compounds are: Glucose-C¹⁴, Fructose-C¹⁴, Sucrose-C¹⁴, and Starch-C¹⁴. Purity of these compounds is at least 99.5% and specific activity is 0.5 to 1.0 microcurie per milligram.

These tagged isotopes supplied in crystalline powder form are valuable

Melting Point Apparatus

Kofler Hot Bench said to require but a few seconds to determine melting points, available from William J. Hacker & Co. Developed primarily to determine melting points and eutectic temperatures of organic substances, the instrument consists of a metal body and an electrically heated element that provides an almost linear temperature drop with a temperature range from 10° to 260° C. To determine a melting point, the substance is laid on the chrome-plated surface of the pre-heated element. Within a few seconds, there is a sharp dividing line between the solid and liquid part of the substance. A runner is moved until the point rests on the dividing line and the temperature is read from the scale of the instrument **PE4**

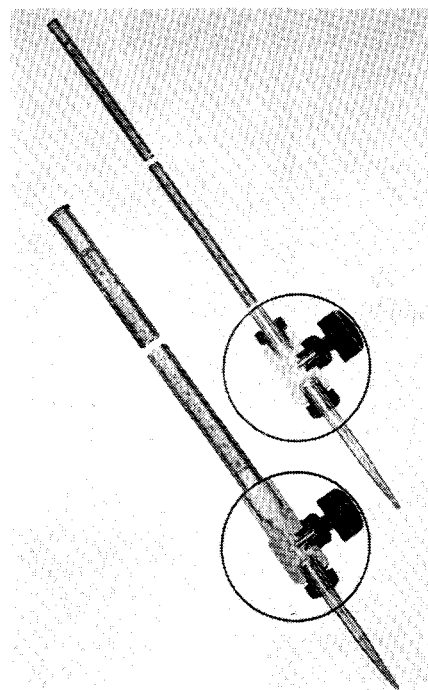


tools for biological research in the field of carbohydrate metabolism and in food research. **PE5**

Lawn Fertilizer

A new formulation of Swift's Vigoro, lawn fertilizer called Golden Vigoro will be available to home gardeners next spring. According to Swift the formulation will not burn growing grass when applied at recommended rates and the nitrogen content of the product is made available to lawns over a period of months rather than within a few weeks.

The fertilizer can be applied to dry lawns and yet will not result in burning of turf, according to Swift spokesmen. One application of Golden Vigoro in March provided significant growth differences over other lawn fertilizers well into September. **PE6**



Needle Valve Burets

Burets equipped with needle valves now available from Emil Greiner Co. Needle valve control is claimed to provide fine control of liquid flow without the need for stopcock adjustment. Needle valves are constructed of glass and teflon, preventing breakage. Another advantage of the needle valves is that possibility of stopcock grease contamination is eliminated **PE7**

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