

NEW PRODUCTS AND EQUIPMENT

Electric Heater



Wax, grease, oil, and other viscous liquids can be quickly melted or thinned with new Pre-Fab woven electric heaters which are readily wrapped around and snap-fastened to 55-gallon shipping drums. The snap-on heaters provide uniform heat by snug contact with the drum surface. Construction of the drum heater consists of alloy resistance wire, insulated with tough fibrous glass. With this type of insulation the heaters can withstand 450° F. sheath temperatures continuously. For heating acid or alkali compounds, Teflon-insulated elements are available—and recommended to avoid damage from spillovers **PE1**

Thermoregulator Adjusts For Changes as Small as 0.005°

A mercurial type thermoregulator for precise control of temperature circuits in viscosity baths and similar operations has been announced by Precision Thermometer & Instrument Co. Called the Magna-Set, the instrument is said to have an accuracy and sensitivity hitherto unavailable even in fixed-contact thermostats. Under favorable conditions, constant temperature baths are said to be controlled within $\pm 0.002^\circ$ C. by the Magna-Set.

Two unique design features are claimed to be responsible for this high performance: an improved reservoir for displaced mercury; and a variable electrode with a magnetically controlled micrometer for fine adjustments. The rough adjustment sets the mercury level for a new operating temperature by the typical heating and cooling process.

Fine adjustment to the precise operating temperature is made by merely twisting the magnetic control. It is said that changes as small as 0.005° C. can be made with the magnetic control.

The Magna-Set operates within a temperature range of -35° to $+300^\circ$ C. **PE2**

Radioactive Carbon-14 Labeled Pyruvic Acid

Radioactive carbon (C^{14}) pyruvic acid as the sodium salt ($2-C^{14}$ and $3-C^{14}$) is available from Nuclear Instrument and Chemical Corp. This compound has previously been available only in the form of pyruvamide, which is relatively unstable and difficult to hydrolyze to the corresponding acid, in which form it is of most interest to the user.

These compounds should be especially useful to workers studying the intermediary metabolism of various tissues. They are available at one millicurie per millimole in four package sizes from 1 to 0.05 millicurie under regular AEC licensing procedures. **PE3**

Peptides Available

The following peptides are available from Mann Research Laboratories: L-alanyl-L-leucine, L-alanylglycine, glycyl-L-alanine, glycyl-DL-isoleucine, glycyl-L-proline, methionylglycine, L-phenylalanyl-L-phenylalanine. **PE4**

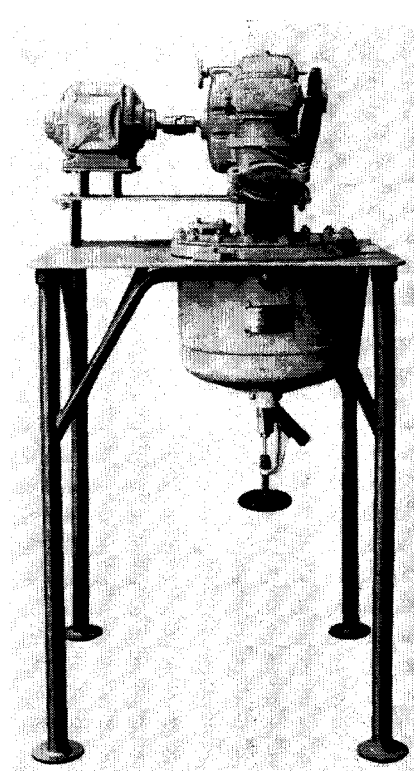
Continuous-Type Mixing Machines

A line of continuous-type mixing and pugging machines, engineered to handle any size material from dust to $1\frac{1}{2}$ in., in either a dry state or in a slurry, is available from The Colonial Iron Works Co.

The mixers, manufactured in standard sizes, are engineered with production capacities to suit specific requirements. They find wide application in such industries as the chemical, metal producing, and food processing, and in foundries, steel mills, and the like.

According to the company, continuous processing offers many advantages, particularly where greater production and consequent increased batch sizes are required. With continuous mixing, first cost is less, and in addition, power requirements and upkeep costs are greatly reduced. Power requirements are generally one fifth of batch operations because there are no peak loads involved. **PE5**

Packaged Pilot Plant



Packaged pilot plant unit consisting of reactor, receiver, decanter piping, valves, and instruments in units from 5 to 60 gallons capacity available from Patterson-Kelly Co. Small reactors designed for flexibility and convenience in pilot work are also available **PE6**

Roto-Cell for Colorimeter

A liquid cooled double cell carrier for use with the Bausch and Lomb "Spectronic 20" colorimeter is available from Arthur H. Thomas Co. Called the Roto-Cell the device is said to make the colorimeter suitable for scanning at controlled temperatures.

The cell is interchangeable with the single place sample holder regularly supplied with the colorimeter and provides for the interchange within the instrument of a 1-ml. sample with the blank or standard into the light path.

The holder is provided with connections for attachment of a properly controlled cooling system to maintain the cell at optimum working temperature. **PE7**

➡ See coupon, page 1245, for further information ➡