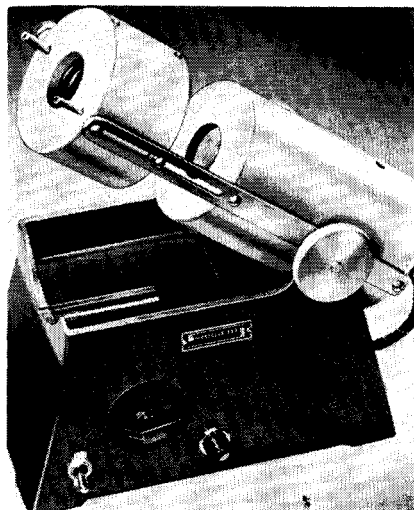


NEW PRODUCTS AND EQUIPMENT

Sublimation Apparatus

A unit for identifying and purifying materials by sublimation at temperatures from room to 300° C. is being manufactured by E. H. Sargent & Co.

The apparatus consists of an electrically controlled block furnace mounted in line on a common frame with a water cooled condenser. Two cartridge-type



heaters are inserted into the metal block and supply heat at a rate determined by a variable transformer. The furnace is insulated on all sides and covered by an aluminum shell. Two types of sublimation tube, for semimicro and micro samples, are offered for use with the apparatus. **PE1**

Portable Fluorescent Lamps

Stocker and Yale, Inc., is offering two hand-model fluorescent inspection lamps with or without magnification. Called Lite-Mites, the units can be quickly adapted for ultraviolet radiation. A two- or four-power lens is straddled by twin fluorescent lamps for maximum seeing ability. **PE2**

Test Chambers Provide Temperatures from -130° to 200° F.

A line of test chambers capable of producing temperatures from -130° to 200° F. and a standard humidity cycle of 20 to 95% from 35° F. to 185° F. has been introduced by Murphy & Miller, Inc. The units are made in five sizes with test-space capacity from 4 to 36 cu. ft.

A high-capacity, low-velocity forced air circulation system is provided by a

fan whose motor is mounted outside the test space. An electric defrost system prevents condensation on products being tested by increasing their temperature to ambient before removal from the test space. **PE3**

Water Bath

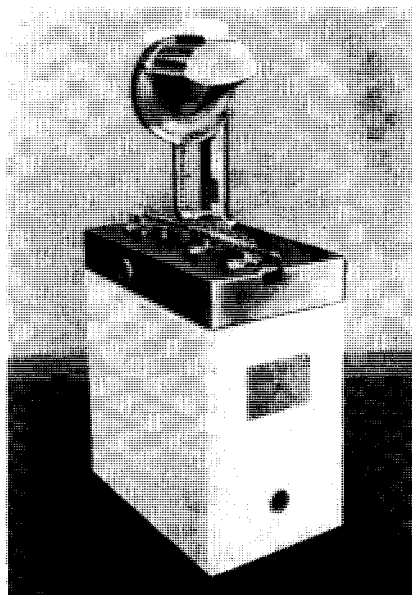
An economical water bath, which establishes a constant temperature reservoir for laboratory work, is available from E. H. Sargent & Co. Circulating and heat control systems are enclosed in a cast metal housing which is supported on the rim of 12- by 12-in. Pyrex glass reservoir. Operating temperatures may be set over a range of room temperature to 60° C. Temperature regulation is provided to $\pm 25^\circ$ C. with a minimum of equipment, says Sargent. **PE4**

Chemical Feed Unit

A packaged chemical feed unit is available from Philadelphia Pump & Machinery Co. in either 50- or 100-gal.

Automatic Vial Stopping

A high speed automatic vial stopping machine, especially designed to minimize assembly time for cleaning and sterilization purposes has been introduced by Perry Metal Products Co. The machine is rated as capable of stoppering 150 vials per minute, using either rubber or polyethylene stoppers. Two handwheel controls adjust the machine to handle different size vials. **PE5**



capacity. The tank is mounted above a controlled capacity pump and completely piped, ready for connections to plant chemical feed piping and to manual or automatic electrical control equipment.

Mechanical agitators can be supplied for vertical agitation rather than the usual horizontal type. Also supplied are a sight gage and a special stainless steel strainer between pump and tank. Pumps can be either simplex or duplex. **PE6**

Continuous Subfreezing Air

The Kathabar Division of Surface Combustion Corp. has extended its line to include low temperature units capable of providing up to 17,000 cu. ft./min. of air at subfreezing temperatures continuously. According to the manufacturer, air at these low temperatures could only be provided with straight refrigeration equipment, subject to periodic shutdown for defrosting, before the development of these units.

Kathabar units will deliver air at 25° to 30° F. lower dewpoint than the dry bulb temperature of the air, which effects substantial refrigeration savings, the company claims. In many cases, this characteristic eliminates the necessity of cooling air to the required dewpoint temperature.

These units are provided with increased air moisture-absorbing capacity through refrigerants, such as brine, methanol, ammonia, Freon, and chilled water, in the cooling coils. **PE7**

Precision Power Supply

Precision power supplies for proportional counting in radioactivity laboratories and in conjunction with pulse height analyzer systems, mass spectrographs, and other research demanding precise high voltages are available from the Atomic Center for Instruments and Equipment, Inc.

The output voltage for the model 300 is from 500 to 1600 volts D.C. and for the Model 301, from 1000 to 5100 volts D.C. The maximum output current for both units is 1 milliamperere. Regulation is 0.01% for load variation from 0 to 1 milliamperere and a line voltage change from 105 to 130 volts. Variations in voltage over several hours are less than 0.01% and less than 0.1% per day. The noise and ripple is less than 0.020 v. at % kv. Voltage control is obtained by means of 0.1% accurate decades and potentiometers. Both models can be

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