Microbiological Hood

The Benchtop Bioflow Chamber is a Class II safety device that features minimum turbulence; unidirectional, vertical downflow; and recirculating laminar flow. Air that bathes the work area and all exhaust air passes through HEPA filters. The work area is 304 stainless steel and the work tray is positioned to discourage obstruction of return air flow. A viewing panel swings out for insertion of large objects and for cleaning. All power except light shuts off when the panel is opened. Chambers are available in widths from 3 to 6 feet. Germfree Laboratories. Circle 724.

Heat Flow Sensor

The HFTA-2 measures heat loss from any skin surface. It is used to study thermal stress, blood flow, or shock. It has human applications in self-contained environments such as space or diving suits or it may be implanted in experimental animals. One millivolt is generated for each 100 watts of heat flux per square centimeter. The sensor is a disk 25.4 millimeters in diameter and 1.57 millimeters thick. Thermonetics. Circle 727.

Computing Planimeter

Model 50 S-3 features fully automatic computation of area measurements in acres; square inches, feet, or miles; hectares; and square centimeters, meters, kilometers, and so forth. It also measures linear distances in standard English or metric units. It has an integral point counter and marking pen, instant digital readout and printout, and remote control facilities for all functions. Los Angeles Scientific Instrument. Circle 722.

Sodium-Potassium Detector

Model 460 is an automated flame photometer that calibrates and monitors its own operation and fuel and reagent conditions and signals the operator when adjustments are needed. In the automatic mode, the 460 measures sodium and potassium in urine or serum. The instrument also has a manual mode for measuring lithium in serum. A sample tray holds 36 sample cups. Samples are processed at a rate of 120 per hour and results are displayed and printed. The 460 calibrates itself after every ninth sample. Corning Medical, Corning Glass Works. Circle 723.

Recorders

The Series 8000 offers recording, computing, and graphing capabilities in single instruments. Models for strip-charting and x-y plotting are available. Each model is microprocessor-based with multichannel capacity, data-processing ability, and flexible disk storage. Each channel may be set for its own sampling rate and graphic output may be selected during or after data acquisition. Incoming data are digitized and temporarily stored in a 10-kilobyte random access memory prior to being transcribed on a flexible disk. Bascom-Turner Instruments. Circle 672.

Centrifuge Rotor

The Chylomicron rotor clears blood samples of fat particles that impair the accuracy of spectrophotometric analyses. Lipemic samples are clarified by a 10-minute spin at 90,000 revolutions per minute with a 3.5-milliliter disposable liner in which chylomicrons are isolated by flotation. Fat particles may also be removed from other body fluids and tissue homogenates with this rotor. The polyethylene liner consists of a doughnut-shaped outer chamber and an inner chamber shaped like an inkwell with a hole at the top. When the liner is placed in the rotor, a spring washer inside the rotor cover compresses it and separates the chambers. During centrifugation, the liner is forced up against the washer and the low-density chylomicrons float to the surface.

Newly offered instrumentation, apparatus, and laboratory materials of interest to researchers in all disciplines in academic, industrial, and government organizations are featured in this space. Emphasis is given to purpose, chief characteristics, and availability of products and materials. Endorsement by Science or AAAS is not implied. Additional information may be obtained from the manufacturers or suppliers named by circling the appropriate number on the Readers' Service Card (on pages 0000A and 0000A) and placing it in the mailbox. Postage is free.

—RICHARD J. SOMMER
center of the rotor. As the rotor decelerates, the outer chamber is again sealed off and the fatty particles are trapped in the inner chamber. Beckman Instruments, Spinco Division. Circle 720.

Stereomicroscope

The M-400 Photomakroskop is a compact, binocular instrument with a zoom lens. Framing and focusing adjustments for photography at 1 to 20 power are made with the operator seated and using both eyes. A photodiode measures light intensity and exposure time is set automatically. Time indicators monitor expected exposure time and elapsed exposure time. Film is advanced after each exposure. The standard M-400 comes with a 35-millimeter camera. Other accessories are available. Wild Heerbrugg Instruments. Circle 726.

Microtitrator

Model FT2230 is a potentiometric instrument designed for microcoulombic, constant-current titration. Quantitative analyses of acid content, Cl<sup>-</sup>, Br<sup>-</sup>, and other ionic species that lend themselves to electrogeneration of an appropriate reagent or reactant are possible. The instrument consists of a dual differential probe electrometer, a bipolar constant-current generator, and a total charge integrator. The electrometer features high impedance (10<sup>9</sup> ohms). The generator produces a direct current of from 0 to 120 nanoamperes. The integrator reads up to ±10 microcoulombs on a digital display. W-P Instruments. Circle 738.

Literature

Ultratitration is the subject of a bibliography of more than 1000 references. Amicon. Circle 683.

Minicomputer features the Eclipse SI/130 systems and their computation abilities, languages, operating systems, and peripherals. Data General. Circle 684.


Instruments for the Laboratory includes microscopes, photographic accessories, microtomes, and microprojectors. E. Leitz. Circle 687.

pH Electrodes are described in an extensive catalog. Pope Scientific. Circle 699.

Liquid Chromatography is the subject of a brochure devoted to applications. Waters Associates. Circle 688.

Laboratory Apparatus features timers, temperature controllers, stirrers, hot plates, water baths, tissue homogenizers, and sample preparation apparatus. Tekmar. Circle 689.


Spectrophotometer Cells lists a variety of cells in several materials. Precision Cells. Circle 691.

Scientific Processor describes the architecture and features of a computational system. Burroughs. Circle 692.


Electronic Balances is devoted to seven new balances for scholastic use. Technical data are included. August Sauter of America. Circle 695.

High Performance Radial Chromatography features a spotter, a U-chamber, and a scanner. Camag. Circle 729.


Biochemicals includes buffers and chemical diagnostics with a separate list of six new products of special interest. Calbiochem. Circle 731.

Chromatography Supplies are described in a newsletter for gas and liquid separations. Varian Associates. Circle 732.

Biochemicals features nucleosides, nucleotides, and analogs for chromatography. ICN Pharmaceuticals, Life Sciences Group. Circle 733.

Light Section Microscope gives detailed specifications for applications in electronics, metals, paper, plastic, and printing industries for surface testing. Carl Zeiss. Circle 734.

Electronic Instruments includes advice on transmission, reflection, and phase measurements and introduces a line of sweep generators. Wiltron. Circle 735.


Spectrum Analysis Theory is devoted to basic theory and to implementation and applications in detail. Rockland Systems. Circle 737.

Tools for Physiology is a 61-page catalog that includes kymographic, electrophysiologic, educational and other devices. Phipps & Bird. Circle 739.
PRODUCTS and MATERIALS

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