



Fiber-Optic Illumination System

A compact, annular light is available for use with stereo microscopes, optical comparators, image analyzers, and photographic equipment. Features include a bundle diameter of 9.5 millimeters at input and an annulus diameter of 53.3 millimeters. Working distance is between 38 and 203 millimeters and an area 51 to 254 millimeters in diameter is illuminated with no clutter of hot lamps, wires, or light pipes near the specimen, photographic object, or operator. Dolan-Jenner Industries. Circle 679.

Blood Analyzer

Ektachem analyzes human serum for glucose and blood urea nitrogen. The analyzer meters a drop of serum onto a specially prepared slide, moves the slide into an incubator, allows the reaction to occur, and then moves the slide to a final position where results are determined colorimetrically. An analysis requires only 20 microliters of serum for both determinations. Incubation requires 6.5 minutes. The device can perform up to 120 tests per hour. Eastman Kodak. Circle 680.

Water Analyzer

The OWA series of gas chromatograph-mass spectrometers performs analysis of water for organic pollutants in monitoring compliance with the Clean Water Act and in other laboratory applications. Microprocessor control and programmed parameters are two of the system's advantages. These instruments ex-

ceed the present requirements for specificity, sensitivity, and reproducibility and, additionally, they present the data in a format compatible with EPA standards for reporting. Finnigan Instruments. Circle 681.

Electrocardiogram and Blood Pressure Simulator

Model 7136 and its companion, the model 7137 sequencer, use synchronized physiological waveforms stored in read-only memory to test the performance of patient monitors and systems for the detection of arrhythmia. Normal patterns and more than a dozen abnormal conditions such as pre-ventricular contraction, wide beats, and bradycardia may be simulated manually or automatically. Many other waveforms may be generated as well. Fogg System. Circle 682.

Microprocessor-Controlled Dispenser

MicroLab P has a motorized plunger controlled by a programmable microprocessor. Volume, speed, and functions are selected by keyboard and a digital display reads out speed, function, step, volume, and plunger direction. The device is rapid, precise, and reliable for use as a repeating dispenser, transfer pipette, automatic burette for microtitration, dispenser for exponential dilution, or a repeating diluter. Gas-tight syringes, volume 50 to 5000 microliters, may be used to dispense volumes from 0.5 to 5000 microliters. Accuracy exceeds 1.0 percent and reproducibility exceeds 0.3 percent. Hamilton. Circle 683.

Electron Microscope

A patented Twin Lens objective system and a scanning transmission control unit are available for addition to the EM-400 electron microscope. This adds a feature called the "Nano Probe" for imaging at atomic resolution and the ca-

pability to analyze materials as tiny as one-billionth of a meter in diameter. The auxiliary lens is contained within the normal dimensions of the objective lens module and may be used in the TEM mode for lattice resolution down to 0.14 nanometer. Philips Electronic Instruments. Circle 684.

Anaerobic Chamber

Model XPL 855-AC is constructed of acrylic sheet to eliminate leakage of oxygen into the chamber through its walls. The chamber is a benchtop model that may be transported within the laboratory. Features include transfer chamber, canisters for indication of moisture and the primary desiccant, catalyst chamber for palladium pellets, quick-disconnect shutoff valves, and an interchangeable pump system. Plas-Labs. Circle 685.

Cabinets for Analysis of Fluorescence

Chromato-Vue cabinets feature a contrast control filter in the eyepiece. The cabinets are light-tight, portable darkrooms for use with shortwave and longwave ultraviolet light. The filter in the eyepiece eliminates the "blue haze" interference commonly caused by longwave ultraviolet light. The cabinets are best used in analysis of fluorescence where competing ambient light is a problem. Ultra-Violet Products. Circle 686.

Microscope Camera Attachment

System MC 63 is for photomicrography with 35-milliliter cameras, 4 by 5 plates, or Polaroid apparatus. Corrected eyepieces in the phototube increase the field of view and maintain the quality of the photographed image from edge to edge. The cameras are focused for visual observation. Thus, the operator may see the object while it is photographed. The shutter is free of vibration for exposures from 1/6 second to 30 minutes. Carl Zeiss. Circle 687.

Literature

Balances describes devices for laboratory weighing equipment for loads from 1 milligram to 100 grams and from 100 grams to 1200 kilograms. August Sauter of America. Circle 688.

Teflon Lab Ware lists a complete line of equipment for the laboratory and classroom. Berghof/America. Circle 691.

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 or 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 Reader's Service Card (on pages 1070C and 1158A) and placing it in the mailbox. Postage is free.

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