

# New Products

## AUTOMATIC LIQUID SAMPLER

Perkin-Elmer has introduced the AS-100 Automatic Liquid Sampler for their line of sigma Series Gas Chromatographs. Microprocessor controlled, the AS-100 automates the measurement of sample volumes and the injection of liquid samples from up to 100 sample vials contained in a small transportable sample cassette, the company reports. The microprocessor can store up to four different injection methods including number of samples per vial, solvent flushing option and duration of analysis. Sample vial volume is 0.8 ml. Contact: Perkin-Elmer Corporation, Instrument Division, Main Avenue, Mail Station 12, Norwalk, CT 06856.



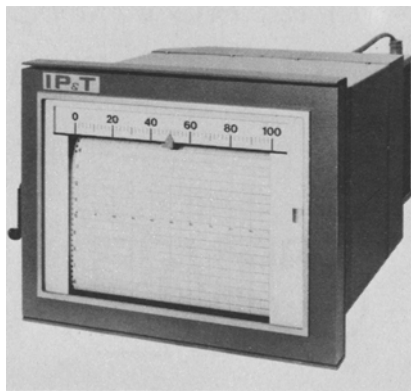
## PORTABLE pH METER

A new hand-held battery-powered digital pH meter is now available from Markson Science, Inc. The Model 88 Digital pH Meter is equipped with solid-state circuitry. Although an optional AC adaptor is available, Markson reports the meter operates for more than 200 hours on six AA alkaline batteries. The meter features a front panel temperature control adjustable to  $\pm 1$  C, a second control permitting standardization from the front panel, combination polymer electrode, pH 4.01 and 6.86 calibration buffers, distilled water and carrying case. Contact: Cindy Johnson, Product Coordinator, Markson Science Inc., Box 767, Del Mar, CA 92104.

## COMPUTERIZED MOISTURE ANALYZER

Motorola Process Control, Inc., has introduced a new computerized moisture analyzer, the Compu-Trac II. Because the load weighing cell has been replaced with a newly developed force balance, an electronic device which measures changes in weight, moisture content of organic and inorganic materials can be determined with greater convenience and accuracy,

Motorola reports. The analyzer uses all solid state components and a microcomputer for memory storage and computations. Compu-Trac II has no moving parts and is self-calibrating, self-zeroing and self-diagnostic. Contact: Motorola Process Control Inc., P.O. Box 20906, Phoenix, AZ 85036.



## IP&T'S NEW RECORDERS

A new line of single- and multi-point servo recorders, introduced by IP&T, features a Magnetic Balancing Device which the firm says eliminates slide-wire contact and its associated cord drive problems. The Multi-Scan 3142J Series recorders accept thermocouple, millivolt, resistance or analog current inputs, and provide a graphic record of up to 24 points on a 250 (10-inch) width chart. The recorders also feature integrated circuitry throughout and a field effect chopper device. Options include four different alarm types, upscale or downscale element burnout protection, and point exclusion capability requiring only one-second switching interval for each point excluded. Contact: International Products & Technologies Group, Inc., 318 Old York Road, Jenkintown, PA 19046.

## SEMI-AUTOMATIC TITRATING

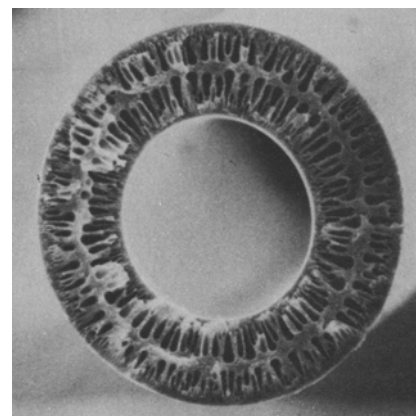
Fisher Scientific Company has developed a semi-automatic, single-sampling titrating system, the Titrimeter II AEP System. Because it can operate in both fixed-endpoint and endpoint-seeking modes, the Titrimeter II AEP can handle aqueous and nonaqueous samples, Fisher reports. The system performs conventional single and dual fixed-endpoint titrations, but if the user does not know the endpoint, the Titrimeter II can titrate to all equivalence points within limits set by the user, calculate and

print out all endpoints and provide a volume derivative recording of results. Contact: Fisher Scientific Co., 711 Forbes Ave., Pittsburgh, PA 15219.



## HACH HAS NEW TURBIDIMETER

Hach Chemical Company is marketing a laboratory nephelometer, their new Ratio™ Turbidimeter which can determine turbidity accurately in highly colored as well as colorless solutions. Meeting all requirements of the EPA for nephelometric measurement, it is sensitive and gives a linear response to carbon particles. The Ratio Turbidimeter provides resolution to 0.01 NTU in its lowest range and gives accuracy of  $\pm 1$  LSD at 25 C. It is linear over all three ranges (0-2, 0-20, 0-200 NTU) with negligible zero-drift. Contact: Hach Chemical Company, Box 389, Loveland, CO 80537.



## HYDROGEN RECOVERY DEVICE

A new device using bundles of hollow fibers to separate hydrogen from process or waste industrial gas streams has been developed by Monsanto Company. Called PRISM separators, the devices use the principle of selective gas permeation through membranes to separate hydrogen from other gases. According to Monsanto, hydrogen

with purity of up to 99% can be produced from gas streams which contain a sufficient hydrogen partial pressure in the feed stream. In addition, recovered gas can be recycled back into the manufacturing process, the company reports. Contact: Monsanto Company, 800 N. Lindbergh Blvd., St. Louis, MO 63166.

#### **HALOGEN ILLUMINATORS FOR MICROSCOPES**

Bausch & Lomb now offers its StereoZoom® Microscope customers a new line of halogen illuminators. A compact 6V tungsten-halogen lamp is at the heart of these new illuminators. A new series of UL- and CSA-listed 110V transformers complement the illuminators. According to Bausch & Lomb, both the illuminators and transformers have been designed to increase their energy efficiency over their old-style, tungsten counterparts. Contact: A. Leeming, StereoZoom Product Manager, Bausch & Lomb, Box 450, Rochester, NY 14602.

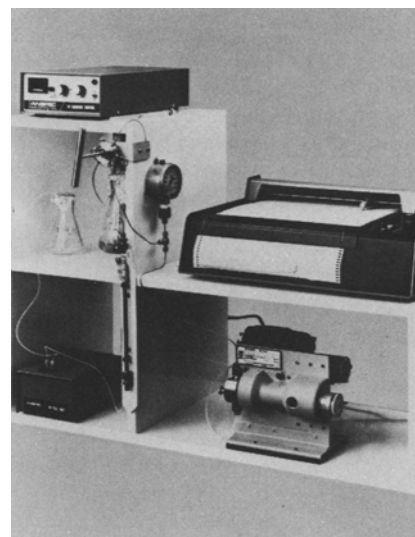
#### **COPPUS'S NEW BLOWER/EXHAUSTER**

Coppus Engineering Corporation says its new RF-20 air-driven, portable blower/exhauster, is designed to operate efficiently on compressed air. Driven by the action-reaction and

leverage principles, the fan has a nozzle at each blade tip through which compressed air is discharged to rotate the fan at high speed. The RF-20 is suitable for ventilating, cooling or gas-freeing and identical inlet and outlet flanges allow it to be used for either supply or exhaust applications. It is particularly suited for use in volatile atmospheres where electric motors or other drives can create sparking hazards, reports the corporation. Contact: Wayne Lessig, Coppus Engineering Corporation, 344 Park Avenue, Worcester, MA 01610.

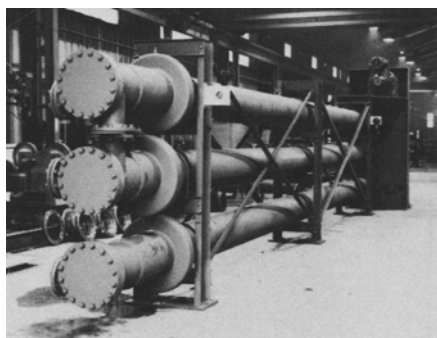
#### **GELATION EQUIPMENT**

The Dri-Block Model DB-1, announced by Techne Incorporated, will enable tests to be performed with its gelation timer Models GT-3 and GT-4 at elevated temperatures. The new Dri-Block unit, together with a removable insert block, provides temperature uniformities of 0.1 C over the range of 30 to 100 C so that accurate gelation tests can be performed over this temperature range, the corporation reports. Other Dri-Block unit models are available which provide larger capacities and different temperature ranges than the DB-1 unit. Contact: P.H. Summers, Techne Incorporated, 3700 Brunswick Pike, Princeton, NJ, 08540.



#### **LOW COST HPLC SYSTEM**

The Anspec Company, Inc., has introduced a High Pressure Liquid Chromatography System designed to provide a low-cost teaching tool for undergraduate chemistry courses. The AN-100 HPLC System features a dual wavelength UV monitor, high pressure constant flow pump, sample injection valve, reversed phase HPLC column and a single channel, 250 mm recorder. Contact: The Anspec Company, Inc., P.O. Box 7044, 122 Enterprise Drive, Ann Arbor, MI 48107.



## **Continuous crystallizers for fractionation of fatty chemicals**

Continuous cooling crystallizers are often used for fractionation of fatty chemicals. Typical uses include: fractionation of tallow and tall oil fatty acids, mono- and di-glycerides purification, winterization of some edible oils, palm/palm kernel oil fractionations, crystallization of salts of fatty acids, fatty alcohols fractionation, and similar processes.

Scraped surface crystallizers may also be used to cool viscous materials, such as lecithin or dimerized fatty acids.

Pilot plant crystallizers are available to rent to test new processes.

Fabrication is available at our shops in the USA, Scotland, or Singapore.

**Armstrong Engineering Associates, Inc.**  
Box 566-J  
West Chester,  
Pennsylvania 19380

**Chemtec, B.V.**  
Box 3-J, Willowyard Rd.  
Beith, Ayrshire  
Scotland

**Chemtec Pte. Ltd.**  
9-J Gul Ave.  
Jurong Town  
Singapore 22

## New Products

### ULTRAVIOLET, VISIBLE LIGHT PHOTOGRAPHY

V-tech Corporation has announced a new photographic documentation system, the Model 420 Foto UV system. This system features ultraviolet light sources along with visible light using a fixed focus Polaroid CU-5 instant camera for black and white or color photographs. V-tech reports that with the use of the Foto UV 420, otherwise invisible detail may be recorded and faint images may be made bolder in the ultraviolet. The system also is

equipped with a built-in timer. Contact: V-tech Corporation, 16229 West Ryerson Road, P.O. Box 183, New Berlin, WI 53151.

### AIR DRYERS

Kahn & Company has added three larger models of heaterless, compressed air dryers to its present line of dryers. The company says its new models MPS-700, 800 and 900 can dry flows as large as 400 SCFM, to dew points as low as -40 F to -100 F. Kahn's line of heaterless dryers have been used in chemical, petrochemical, food processing and pulp and paper industries to dry air and other atmospheric gases for plant, instrument or

process use. Contact: Jeff Hall, Kahn & Company, 885 Wells Rd., Wethersfield, CT 06109.

### HPLC FLUOROMETER

The Schoeffel Instrument Division of Kratos, Inc., is marketing a new filter fluorometer for HPLC. In addition to its use in HPLC, the FS 950 Fluoromat may be used in freestanding fluorescence analysis. The fluorometer uses discrete lamp and filter kits to select excitation wavelengths at 254, 365, 410-480, and 500-545 nm. Emission wavelengths are selected using UV cutoff filters, with the range of emission detection at 300-650 nm. Contact: Kevin L. Scully, Kratos, Inc., Schoeffel Instrument Division, 24 Booker Street, Westwood, NJ 07675.

### MOISTURE CONTENT ANALYZER

Moisture Register Co. has incorporated an LED display and a new quartz halogen light source into their Model MR infrared continuous moisture content indicator system. The 3½-digit LED display provides a digital reading of moisture content and, according to the corporation, the halogen light improves lamp reliability by more than 10 to 1. The MR indicator system is a noncontact, infrared moisture content analyzer that can be used either as a batch or continuous testing instrument. Contact: Robert Blankenship, Moisture Register Co., 6934 Tujuenga Ave., North Hollywood, CA 91605.

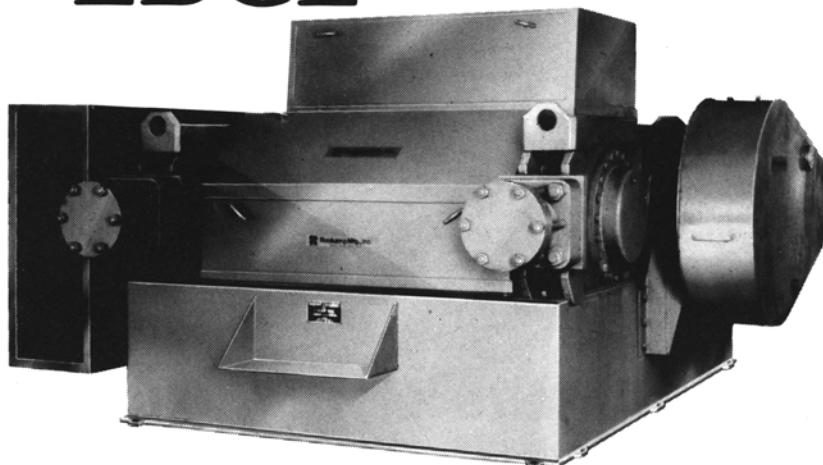
### PARTICLE SIZE ANALYZER

A Microtrac Particle Size Analyzer, developed by the Microtrac Division of Leeds & Northrup, provides instrumentation for continuous monitoring of particle size for process control. Analysis can be obtained on print-out in two minutes, and a nontechnical employee can be trained to use it in less than two hours, reports the company. Standard outputs include a digital display and a digital printer. Contact: Microtrac Division, Leeds & Northrup, 6950 Bryan Dairy Road, Largo, FL 33543.

### PERISTALTIC PUMP

The Bredel Hosepump® Concept, a peristaltic type of pump now being marketed by Waukesha Division, Abex Corporation, is useful in tough applications involving abrasive slurries and shear-sensitive fluids at high production rates, the company reports. Features include one moving part, no product seals, no critical clearance adjustments and precise metering capabilities. In addition, the pump can run dry and is safe for use in explosive environments. Contact: Waukesha Division, Abex Corporation, 1300 Lincoln Ave., Waukesha, WI 53186.

# THE ROSKAMP 'EDGE'



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## Roskamp Mfg., Inc.

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