
New Products

CONSTANT TEMPERATURE BATHS

A series of circulating constant temperature baths, from Techne Inc., offer precise temperature control in the laboratory. Three series of baths—all stainless steel units—are available in six standard sizes with either an integral stirrer or an optional circulation pump. Contact: Techne Inc., 3700 Brunswick Pike, Princeton, NJ 08540.

MONITOR-ALARM SYSTEM

The TMC-16 is a high-speed, solid state microprocessor-based system, produced by Com-Trol, to monitor and control temperature and pressures of refrigerated fixtures, coolers and other temperature-dependent processing systems. The alarm continuously scans all probe positions and compares actual temperature and time against assigned alarm and guard set-points. A visual and audible alarm occurs when the probe has been above guard temperature for longer than the allotted time. Contact: Tom Miller Inc., PO Box 724, 285 River Street, Bucyrus, OH 44820.

CLOSED SYSTEM WATER TREATMENT

Dearborn Chemical is offering a nonpolluting, nontoxic corrosion and scale inhibitor for closed heating and cooling systems. This premixed solution protects yellow metals, iron and aluminum, as well as preventing scale in closed systems that use hard water. Contact: Dearborn Chemical, Dept. 547, 300 Genesee St., Lake Zurich, IL 60047.

ANALYTICAL BALANCE

Cahn Instruments says that its new CAHN TA 450 combines the precision and accuracy of the classical analytical balance with the speed and ease of an electronic toploading balance. The unit provides a sensitivity of 0.0001 gram and features a "stayput" airhood which allows easy access to the weighing chamber without interference from glass doors or support frames. Contact: Marie Greene, Cahn Instruments, 16207 S. Carmenita Rd., Cerritos, CA 90701.

DIGIPET PIPET

Monostat's new Digipet is a hand-held digital readout instrument for high

accuracy dispensing of all liquids. The pipet features a two-speed filling and dispensing system and reads to 0.00002 ml (0.02 microliter). The instrument is available in three total capacities: 0.1 ml, 1.0 ml and 10.0 ml. Contact: Manostat Corp., 519 Eighth Ave., New York, NY 10018.



PROTEIN ANALYZER

Newport Instruments Ltd. of England has introduced a British-made protein analyzer, the P-100, which, the firm says, is the first commercial instrument to employ nuclear magnetic resonance in the analysis of animal and vegetable proteins. This pulsed NMR spectrometer is used with aqueous relaxation reagents, which provide both sensitivity and linearity of relaxation rate shift with protein content, and immunity from other nonprotein constituents such as carbohydrates. Application reports have been published on meat, soya meal and meat, fish and blood meals for animal feed. Other reports on oilseeds (such as rape and sunflower) are being prepared. Contact: George Calhoun, Newport of North America, PO Box 442, Villanova, PA 19085.

DOUBLE-DISTILLATION EQUIPMENT

A new double-distillation assembly from Quartz Products Corp. produces high-purity water for chemistry, nuclear and laboratory applications. Water is introduced into the first of two stills and boiled to produce water vapor which condenses in the second. Reboiling produces high-purity, double-distilled water in a third chamber. Water is produced at the rate of 2.8 liters per hour with a 220 VAC supply voltage, or 0.7 liters per hour at

110 VAC. All wetted parts in the assembly are made of high-purity silica. Contact: Don Richard, Quartz Products Corp., Box 1347, Plainfield, NJ 07061.

GEAR PUMPS

Midland Pumps Manufacturing Co. Ltd. has introduced a range of long-life, positive-displacement gear pumps, toughened with a metal-hardening process that combines nonmetallic carbide, nitride and sulfide. This allows the pumps to handle a variety of nonlubricating, low viscosity fluids under pressure, as well as fluids recirculated under pressure which contain abrasives, such as soluble oils and cutting oils. The units are self-lubricating and self-priming up to 7 m (23'). Contact: Reg Stokes, Midland Pumps Manufacturing Co. Ltd., Seeleys Road, Greet, Birmingham B11 26F, England.

DIGITAL WEIGHT INDICATOR

A new digital weight indicator has been designed by Consolidated Controls Corporation for use in harsh environments such as those encountered in the chemical and food processing industries. The Model UMC-2004, wall-mounted in a stainless steel enclosure, accepts analog output from load cells, converts it to digital form and displays the information in either pounds or kilograms. Excitation sufficient to drive four 350-ohm load cells at 15 volts DC is provided. Contact: Weighing Products Division, Consolidated Controls Corp., Bethel, CT 06801.

AA SPECTROPHOTOMETERS

Varian Associates is marketing two new atomic absorption spectrophotometers which offer fully automated metals analysis. The AA 1275/1475 series has an 8-bit microcomputer built in for data collection, system management and direct read-out of metal concentrations. Two gas control systems—manual and automatic—are available. The AA 1275 is a single-beam instrument and the AA 1475 employs a time-shared, double-beam system for source drift compensation. Both instruments have flame emission capabilities. Contact: Grant Gower, Varian Instrument Division, 611 Hansen Way, Palo Alto, CA 94303.

New Products

BEAD BATH

Analytical Products, Inc. has developed a bead bath which uses aluminum beads as a means of total heat contact instead of water. Applications include evaporation of extracts for drug and steroid testing, dissolving chemicals and any application requiring constant heat where frequent temperature changes and high tolerance are not required. At full power, the bead bath has a temperature gradient of 115 C to 140 C. Contact: Ronald B. Smernoff, Analytical Products Inc., PO Box 845, Belmont, CA 94002.

PLATE AND FRAME FILTER

Ertel Engineering Company has announced a new range of filters, the Vapor Master, in a sealed, horizontal plate and frame design which, the company says, will replace the sealed disk and enclosed filter. The plate and frame filter accepts all types of media—cloth, paper, woven fabric—without gaskets and can provide single filtration or double filtration in a single pass. Contact: Ertel Engineering Company, Front Street, Kingston, NY 12401.

DIGITAL pH SYSTEM

A new digital pH system, from Beckman Instruments Inc. is designed for industrywide wastewater processing and effluent monitoring. The Model 942 pH/ORP Monitoring System contains microprocessor-controlled circuitry for digital data transmission and power generation over common two-wire shielded cable. The system includes a microprocessor-based analyzer, a differential preamplifier and an electrode station. Contact: Beckman Instruments Inc., Process Instruments Division, Technical Information Section, 2500 Harbor Blvd., Fullerton, CA 92634.

TEMPERATURE INDICATOR CONTROLLER

Now available from Wahl Instruments is a microprocessor-based, programmable temperature indicator controller for process and quality control. The controller accepts five thermocouple types and platinum RTD sensors with conformity to 0.2 C. Applications include temperature monitoring for process, QC and energy conservation, heat treating, environmental monitoring, ovens and furnaces, and refrigeration. Contact: Indicator/Controller Division, Wahl Instruments Inc., 5750 Hannum Ave., Culver City, CA 90230.

X-RAY SPECTROMETER

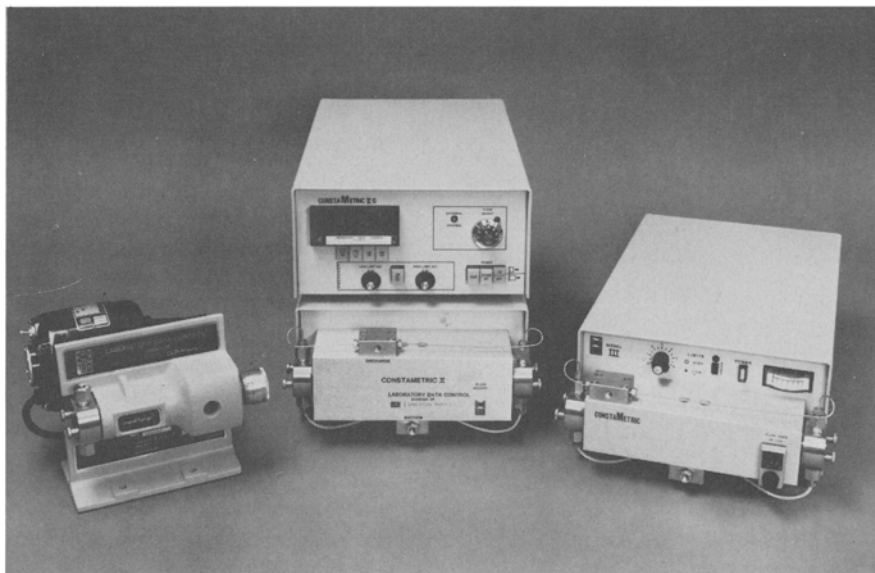
Applied Research Laboratories has introduced the Chem-X, a commercial multichannel wavelength dispersive X-ray spectrometer, designed for use as a quality control instrument where the range of elements is limited. The company says that the new spectrometer makes simultaneous X-ray instrumentation a cost-effective, desirable alternative to sequential and energy dispersive units. The Chem-X permits analysis of up to eight elements simultaneously from ppm to 100% concentration levels. Contact: Applied Research Laboratories, 9545 Wentworth St., Sunland, CA 91040.

CHEMICAL INJECTION SYSTEMS

Williams Instrument Co. has a series of packaged and fully integrated chemical injection systems with models that will automatically inject chemicals into a gas liquid stream in direct proportion to flow. The electrically controlled system flow-tracks any analog or digital signal from an existing process controller or flow element on the process line. The pneumatically controlled system employs either a gas or liquid flow meter and pneumatic pulser to automatically inject chemicals in direct proportion to flow. Contact: Williams Instrument Co., 25217 Rye Canyon Road, Valencia, CA 91355.

NEW PRODUCTS LITERATURE

An eight-page illustrated brochure from Manufacturers Equipment Company, 35 Enterprise Drive, Middletown, OH 45042, describes the MECO accurate non-bridging, non-ratholing volumetric feeders....Applied Science Division (ASD) of the Milton Roy Co. Laboratory Group, PO Box 440, State College, PA 16801, has initiated a new publication, the **ASD Chromatographer**, with recent articles on the pre-SAT LC Mobile Phase Conditioner and Adsorbil-LC preparative HPLC packings....A two-color, 28-page booklet from Watlow Electric Manufacturing Co., 12001 Lackland Rd., St. Louis, MO 63141, contains information on tubular heater, including over-the-side, screw plug, flanged, circulation and duct heaters....Winchester Manufacturing Co., 360 S. Lombard Rd., Addison, IL 60101, has a six-page brochure detailing its line of wastewater treatment systems....A 12-page catalog published by Ball Products Corp., of the Oilgear Co., 2308 S. 51st St., Milwaukee, WI 53219, describes its range of level alarm controls for most fluid applications....Nitto Denko, 5 Dakota Drive, Lake Success, NY 11042, has produced a brochure illustrating and describing tubular ultrafiltration modules and equipment to recover and/or recycle valuable intermediates from food or chemical process streams.



HIGH FLOW-RATE PUMPS

Laboratory Data Control is now marketing two new high flow-rate liquid ends for use with the LDC instrument, Minipump and ConstaMetric pumps. These new semipreparative and preparative liquid ends extend the flow rate capabilities of

LDC pumps to include a variety of high flow-rate applications in liquid chromatography. Contact: Marlin Bensinger, Laboratory Data Control, Division of Milton Roy Co., PO Box 10235, Riviera Beach, FL 33404.