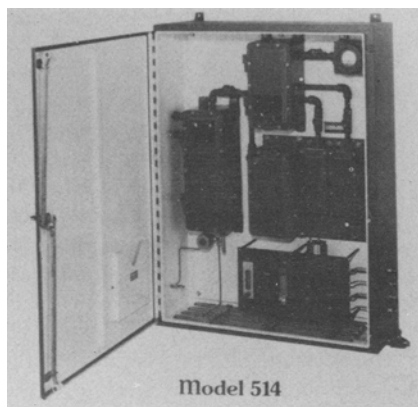
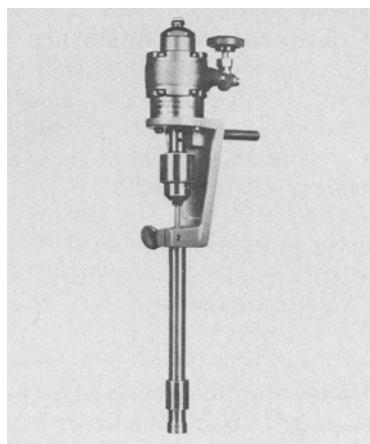

New Products



PROCESS NIR PHOTOMETER

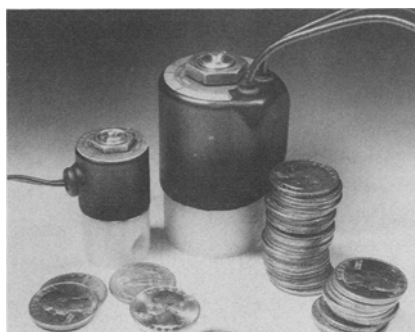
A continuous-duty, near-infrared analyzer, the Model 514 from Teledyne, is designed to make real-time hydroxyl measurements. It also is suitable for monitoring parts-per-million and percentage concentrations of water in a variety of compounds such as acids, oils, chlorinated hydrocarbons and other liquid and gas applications. Teledyne maintains that, through the use of this process photometer, chemical concentrations can be used directly as target variables. This is preferable to relying on inferential data obtained from physical parameters such as pressure and temperature and eliminates inconveniences associated with laboratory tests for occasional verification, Teledyne says. Contact: Teledyne Analytical Instruments, 333 West Mission Dr., San Gabriel, CA 91776.



HIGH-SPEED STIRRER

Kraft Apparatus has developed a non-aerating, high-speed stirrer for laboratory use. Mixing action is accomplished by drawing the liquid up through the center of the stirrer attachment and then dispersing it outwardly. A deflector then directs the

flow downward. The rapid flow below the surface does not introduce air and avoids foaming in protein or detergent solutions. Contact: Kraft Apparatus, Inc., 402 Sagamore Ave., Mincola, NY 11501.



MINIATURE SOLENOID VALVES

Brunswick Technetics recommends its miniature solenoid valves as an economic alternative to heavier metal body valves. Designed for applications in instrumentation, refrigeration, liquid dispensing, data processing, packing equipment and machine tools, the valves come in two sizes and are available as two-way or three-way valves. Contact: Brunswick Technetics Division, 60 Production Court, New Britain, CT 06051.



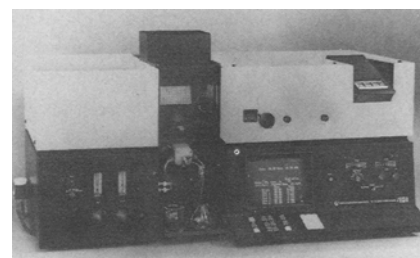
PERISTALTIC PUMP

LKB Chromatography Instruments' new all-purpose laboratory pump is, they say, the first laboratory peristaltic pump with an LED display of flow rate. The Microperpex is designed as a two-channel pump and incorporates a microprocessor which stores and processes information from a one-step calibration and displays this as flow rate in ml/hr. A cassette roller design mounted on the side of the instrument ensures low-pulsation flow; the pump head is constructed of corrosion-resistant Ryton. Contact: LKB Instruments Inc., 12221 Parklawn Dr., Rockville, MD 20852.



IMMERSION CIRCULATOR

Techne Inc. has developed an immersion circulator, Tempette Model TE-7, for the precise temperature control of laboratory baths. This model, Techne announces, includes a continuously adjustable temperature selection and high quality, stainless steel construction, combined with a highly efficient stirring action. The circulator is supplied in four temperature ranges and users may select a unit with either a stirrer or a circulating pump. Contact: Techne Inc., 3700 Brunswick Pike, Princeton, NJ 08540.



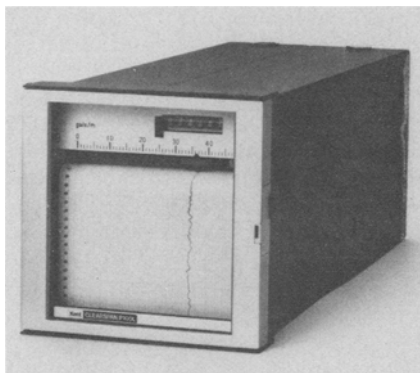
ATOMIC ABSORPTION SPECTROPHOTOMETER

A video-screen atomic absorption spectrophotometer is now available from Instrumentation Laboratories. The built-in video screen of the 1L451 Video S can graphically display analytical working curves with up to five standards and also can show absorption peaks from element and background. It is particularly useful for methods development and verification. Contact: Instrumentation Laboratory, Analytical Instrument Division, Wilmington, MA 01887.

TLC PLATE HEATER AND HOLDER

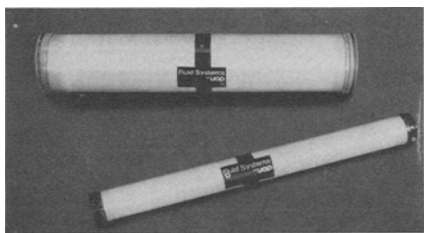
Fotodyne Inc. is offering a heater and holder for thin layer chromatography and high pressure thin layer chromatography. The company says that the breakage often caused by uneven heat-

ing is prevented by the heater's constant and uniform heat. Visualizing vapors are recirculated over the entire plate through the use of a glass cover plate, and this feature is believed to provide uniform distribution of spots and plate background, assuring better quantitative scanning results. Contact: Fotodyne Inc., PO Box 183, New Berlin, WI 53151.



FLOW RECORDERS

Kent Process Control has added a new series of recorders to the Clearspan P100L instrument range. The 6" X 6" flow recorders accept input directly from transducers, and provide both permanent records and totalized flow. Contact: Kent Process Control Inc., 165 Fieldcrest Ave., Raritan Center, Edison, NJ 08817.



REVERSE OSMOSIS UNITS

Two new reverse osmosis elements, from the Fluid Systems Division of UOP Inc., are now on the market. They are designed for use in wastewater, brackish water, industrial wastewater and domestic water purification systems. UOP claims that the units need less space but achieve higher flow rates and are thus more cost effective than previous ones because fewer are needed to attain a given flow rate. Contact: Fluid Systems Division, UOP Inc., 1980 N. Harbor Dr., San Diego, CA 92101.

VAPOR DETECTOR

The "Fume Alert" from Wolsk Associates detects the hazardous vapors ethylene oxide, propane or carbon monoxide. The sensor comes in 20-gauge stainless steel and can also be calibrated to meet customer specifications to detect methane, gasoline, hydrogen or hydrogen cyanide. Con-

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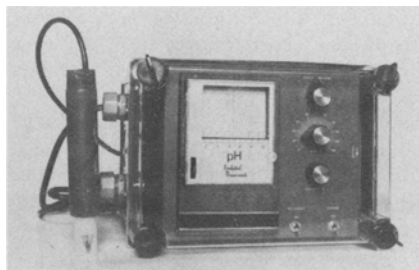
ARCHER DANIELS MIDLAND COMPANY
World Headquarters - Decatur, Illinois 62525
Telephone - 217-424-5200 Telex 250121

Using America's abundance to solve the world's needs.

tact: Wolsk Associates, Ltd., PO Box 11741, Lexington, KY 40511.

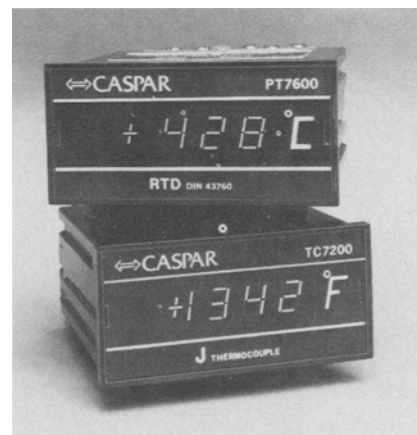
LASER PARTICLE COUNTER

A new system from Spectrex Corporation uses a data gathering unit with a horizontal laser beam for making settling studies on particles in suspension. Through a forward light scatter, particles are detected and recorded as pulses of light on a photodetector. These particles are then counted and sized by the data processing unit. Applications for the system include quality control for filtered solutions, wear particles in hydraulic oils and continuous flow control. Contact: Spectrex Corporation, 3594 Haven Ave., Redwood City, CA 94063.



COMPACT MATERIALS ANALYZER
Columbia Scientific Industries Corporation has introduced its Model 740

Compact Materials Analyzer which provides direct concentration readouts of up to 32 elements in one measurement. Fully portable for field use, the CSI 740 operates from battery or outlet and has a total weight, including battery, of 20 pounds. The element range is inclusive of atomic no. 13 through 92, aluminium through uranium. Contact: Lou Culpepper, CSI Corp., PO Box 9908, Austin, TX 78766.



PANEL-MOUNT THERMOMETERS
Caspar Integrated Systems has a new line of high-accuracy thermocouple and RTD panel-mount thermometers.

The type J thermocouple thermometer has a range of -180 to $+760$ C; type K, a range of -50 to $+1250$ C. A profile module permits field conversion from type J to type K and vice-versa. The platinum RTD thermometers offer optional ranges of -200 to $+800$ C with 1° resolution. Contact: Caspar Integrated Systems, 541 South Franklin St., Fort Bragg, CA 95437.

INDUSTRIAL COLOR MONITOR

The Industrial Color Monitor is a color transducer designed by the Gardner Laboratory Division, Pacific Scientific Company. Developed to be used in combination with a Gardner proprietary optical system, the transducer allows the light to be received and transmitted over long distances while providing a manageable solution to the transducer environmental interface. The color monitor can be tailored to individual requirements. Contact: Gardner Laboratory Division, Pacific Scientific Co., Bethesda, MD.

PARTEK 100 SERIES LIQUA-BLASTER

The Partek 100 Series Liqua-Blaster is specifically developed for versatility. Among other uses, this ultra-high-pressure water jetting unit can blast carbonates and hard polymers from refinery heat exchanger tubes. Its stainless steel pump components insure maximal resistance against corrosion and a Fail-Safe Partek gun provides safe operation, Partek says. Contact: Partek Corporation of Houston, PO Box 18312, Houston, TX 77023.

METROHM RANCIMAT E617

The Metrohm Rancimat E617 is now available from Brinkmann Instruments, Inc. The system determines the oxidation stability of edible oils and fats by subjecting samples to a stream of atmospheric oxygen at high temperatures. The organic acids thus produced are carried over to a measuring vessel and mixed with water. Induction time (rancidity) is determined by the conductivity of this solution. Contact: Brinkmann Instruments, Inc., Cantiague Road, Westbury, NY 11590.

DIGITAL REFRACTOMETER

Now available from American Optical is an option to the Abbe Digital Refractometer, which was introduced in 1977. The BCD (Binary Coded Decimal) permits the refractometer to be interfaced with a card printer, calculator or other data processing equipment in order to mathematically interpret data. This feature, the company says, is unavailable on any other bench refractometer. Contact: American Optical, Scientific Instrument Division, PO Box 123, Buffalo, NY 14240.

INDIRECT HEAT EXCHANGER

The Torus Disc, from Bepex Corporation, is an indirect heat exchanger that can be used for continuous drying, heating, cooling, desolventizing and reacting. According to the company, the Torus Disc can achieve heat transfer coefficients two to six times greater than many other indirect dryers. Applications include pharmaceuticals, meat by-products, petrochemical and municipal wastes and soy protein. Contact: Bepex Corporation, 5725 North East River Road, Chicago, IL 60631.

NEW PRODUCT LITERATURE

Perkin-Elmer Corporation, Main Ave., Mail Station 12, Norwalk, CT 06856, has published five technical notes dealing with various analysis techniques and new liquid chromatography data processing developments in liquid chromatography. The documents are entitled TN-75: *Instrumental Sources of Error in High Precision Quantitative LC Analysis*; TN-76: *LC Systems Control by a Program*; TN-77: *LC Data Processing in BASIC Language*; TN-78: *Spectroscopic Solutions to LC Separations Problems*; and TN-79: *A Discussion of Gradient Systems Pre-pump versus Dual Pump*. . . . Larodan Fine Chemicals, PO Box 20041, S-200 74, Malmo 20, Sweden, has a 32-page *Catalog on Lipids*, reference mixtures and deuterium-labeled fatty acids, alcohols and glycerides. . . . Hodag Chemical Corporation, 7347 North Central Park Ave., Skokie, IL 60076, has issued a technical brochure on *Hodag Silicone Antifoams*, giving information on the characteristics, applications and use of their silicone anti-foam compounds, emulsions and fluids. . . . Beckman Instruments Inc., 2500 Harbor Boulevard, Box 3100, Fullerton, CA 92634, is offering a six-page brochure describing the applications of dissolved oxygen monitors for ppb and ppm measurement. . . . Union Carbide Corporation, Silicones and Urethane Intermediates Division, Old Ridgebury Road, Danbury, CT 06817, presents a 16-page color brochure describing traditional and new applications for the company's simethicone products and detailing new uses for simethicone in drugs, cosmetics and food preparation. . . . Brinkmann Instruments Inc., Cantiague Road, Westbury, NY 11590, has a new portfolio-type catalog featuring *Kjeldahl/Nitrogen Analyzing Systems* and applications. . . . Emery Industries, Inc., 1300 Carew Tower, Cincinnati, OH 45202, has issued Data Sheet 943, *Emery Fatty Acids in Liquid Hand and Bath Soaps*, which includes three starter formulas for popular liquid

soaps, using various Emery fatty acids. . . . FLIC Systems Inc., 1101 State Road, Princeton, NJ 08540, is offering a brochure detailing the company's Series 3 process monitoring and control systems for high-level control and central information gathering. . . . Tachyon Corporation, 7232 Boone Ave., North, Minneapolis, MN 55428, has a brochure on the firm's low speed-high torque motors, which covers performance data, design features, factory applications and details of various models.

Hodag Chemical Corporation, 7247 N. Central Park Ave., Skokie, IL 60076 has released a brochure *Hodag Non-ionics*, which presents technical data and general characteristics for 86 different available nonionic compounds. . . . Foxboro Analytical, A Division of The Foxboro Company, PO Box 5449, South Norwalk, CT 06856, has a new brochure describing its analyzer which provides measurements of hydrocarbon in process gas or liquid streams. . . . Hacker Instruments, Inc., PO Box 657, Fairfield, NJ 07006 has a four-page illustrated folder describing its Lucida fiberoptic RingLight for stereomicroscopes, projectors, machine tools and other applications. . . . Laboratory Data Control, PO Box 10235, Riviera Beach, FL 33404 has published the newest catalog for the Cheminert line of low pressure liquid chromatography accessories. . . . Marsh Instrument Co., PO Box 1011, Skokie, IL 60076, has developed a four-page brochure, *Products for Process Instrumentation*, that serves as an index to gauges, bimetal thermometers and needle valves for process instrumentation. . . . A bulletin from Fisher Scientific Co., 711 Forbes Ave., Pittsburgh, PA 15219 details features of the Accumet Model 750 selective ion analyzer. . . . Edwards Engineering Corp., 101 Alexander Ave., Pompton Plains, NJ 07444 has available catalog 8-CHLT-1, *Low Temperature Liquid Chillers*, describing its line of packaged low temperature liquid or brine chillers for applications from -120 to 80 F. . . . Zurn Industries, Inc., Fluid Handling Div., 901 West 12th St., Erie, PA 16501 has a six-page brochure, No. 465-ADV, *Self-Cleaning Pipeline Strainers*.