Thermal Analysis System

The model TA2000 is a modular system for quantitative differential thermal analysis. It measures the difference between heat flows to the sample crucible and to a reference crucible. The system features a temperature range from \(-20^\circ\) to \(+500^\circ\)C and is accurate to \(\pm0.5^\circ\)C. Under isothermal conditions maximum fluctuation is 0.002\(^\circ\)C. Push buttons control several temperature programs: heating-cooling at a selected rate with shutdown at temperature limit, heating-cooling at a selected rate with isothermal hold at temperature limit, rapid (100\(^\circ\)C per minute) heating-cooling with isothermal hold at temperature limit, cycling between two limits at a selected rate, and isothermal hold. Calorimetric sensitivity with aluminum crucibles is approximately 60 microvolts per milli-calorie per second within \(\pm2\) percent — the exact value is inherent in a given system. There are modules for various applications and for data analysis. Mettler Instrument Corporation. Circle No. 140 on Readers’ Service Card.

Water Baths

Temperature uniformity is maintained within \(\pm0.1^\circ\)C throughout the water bath in the new Blue M series of water baths. The units are available in sizes from 18 inches long by 12 inches wide by 7½ inches deep to 36 by 18 by 9½ inches. Uniform temperature is maintained by the Power-O-Matic 70 proportioning control system. The system features protection against overheating and the baths are equipped with feeders to maintain the water level. They also provide an agitation system that eliminates the need for conventional stirrers. Blue M Electric Company. Circle No. 138 on Readers’ Service Card.

Urine Refractometer-Dispenser

Measurements of specific gravity and pickup and delivery of accurate volumes of urine are simplified with the Hamilton refractometer-dispenser. The device is hand held, a trigger activates the pickup and release mechanism. Batteries for the optical refractometer are in the handle and there is a recharging stand with the instrument. The fluid is leak-proof and corrosion-resistant. The pickup tube is Teflon. Hamilton Company. Circle No. 141 on Readers’ Service Card.

Literature


*Everything You’ve Always Wanted to Know about Crystals* is a 32-page guide to selecting infrared transmission materials. Barnes Engineering Company. Circle No. 148 on Readers’ Service Card.

*Portable Ambient Air Monitors* describes a line of colorimetric analyzers for oxides of sulfur and nitrogen. CEA Instruments. Circle No. 149 on Readers’ Service Card.

*Automatic Particle Counting and Sizing Instruments and Accessories* features apparatus for gases and liquids. Also included are smoke and aerosol generators, liquid diluters and samplers, and portable particle counters. Royco Instruments, Incorporated. Circle No. 150 on Readers’ Service Card.

*A Compendium of Technical Papers* is a 52-page collection dealing in theory and application of rheometers, viscometers, extruders, and other rheologic devices. Haake Incorporated. Circle No. 130 on Readers’ Service Card.

*Quality Concepts in Laboratory Animal Care Equipment* describes caging systems for virtually all laboratory animals. Hoeltge, Incorporated. Circle No. 131 on Readers’ Service Card.

*Airco Rare and Specialty Gases* catalogs 172 pure and mixed gases and also equipment for handling them. Airco Industrial Gases. Circle No. 133 on Readers’ Service Card.

*Thelco Ovens and Incubators* describes applications and gives specifications and performance data for more than a dozen models including gravity ovens, vacuum ovens, forced-circulation ovens, carbon dioxide incubators, and anaerobic incubators. GCA/Precision Scientific. Circle No. 144 on Readers’ Service Card.

*Environmental Equipment Catalog* features laboratory and production models of ovens, test chambers, and incubators. Walk-in and reach-in types and models designed for electronic, chemical, and metal processing are described. Hotpack Corporation. Circle No. 145 on Readers’ Service Card.