cause the cathode is heated by direct current. Applications include semiconductors, thin-film electronics, optics, surface improvement, and nuclear research. Crucibles include one of each: four-way, oscillating, grooved, and pot. The electron beam may be deflected periodically through a variable range because of the X-Y sweep characteristic. Balzers High Vacuum Corporation. Circle No. 139 on Readers' Service Card.

Single Grating Monochromator

The quarter-meter Ebert monochromator model 82-415 utilizes a single grating, selectable from six standard gratings between 1180 and 50 grooves per millimeter. Blaze characteristics are selectable from a high of 200 nanometers to a low of 100 nanometers per minute. The manufacturer offers a number of accessories such as digital stopping drive, filter wheels for entrance or exit slits, a quantum photometer, and a recorder. Fisher Scientific Company. Circle No. 138 on Readers' Service Card.

Calcium Analyzer

The model 940 (Fig. 2) eliminates manual titration in determining calcium content of a sample. The content is expressed in milliequivalents per liter or as milligrams percent within 30 seconds after insertion of sample. Sample size may be as small as 0.02 milliliter. Model 940 operates by quenching the fluorescence produced by calcein in the presence of calcium ions in an alkaline medium. The quenching is accomplished by titration with ethylenebis(oxyethyenenitrilo)tetraacetic acid which automatically stops upon cessation of fluorescence. Corning Scientific Instruments. Circle No. 130 on Readers' Service Card.

Carbon Dioxide Incubator

The Mark I incubator (Fig. 3) has a temperature range of 65°C with a control of ± 0.2°C and a uniformity of ± 0.5°C. A temperature safety prevents high-temperature damage. Relative humidities to 98 percent are achieved with the bubbling device, reservoir, and regulator. There are 4 square feet of shelf space and the unit occupies 306 square inches of bench space. Lab-Line Instruments, Incorporated. Circle No. 137 on Readers' Service Card.

Fig. 2. The Corning model 940 calcium analyzer reads calcium content directly in milligrams percent or in milliequivalents per liter within 30 seconds after sample insertion.

Literature

Biomedical Apparatus & Equipment is a 44-page catalog of supplies for medical research and clinical applications. Included are such items as glassware, water stills, stirrers, and liquid dispensers. Wheaton Scientific. Circle No. 140 on Readers' Service Card.

Constant Temperature Controlled Equipment for the Scientific and Laboratory Field lists ovens, baths, furnaces, environmental chambers, and temperature control devices. The 216-page catalog also includes temperature, humidity, and measurement conversion tables. Blue M Electric Company. Circle No. 141 on Readers' Service Card.

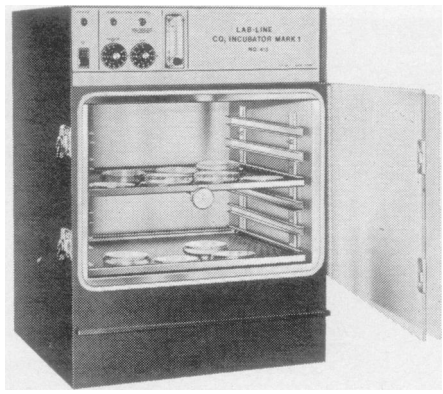

Fig. 3. The Mark I carbon dioxide incubator from Lab-Line provides 4 square feet of shelf space (with two shelves).

Single Grating Monochromator

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