The Cahn Electrobalance is easy to operate, fast, rugged and portable, yet has accuracy equal to many delicate micro balances. Balancing time takes but a second or two. Complete weighings average less than a minute. Readings are taken directly in micrograms.

Controls are simple to understand. Sample weight is balanced by torque applied electrically in a magnetic field. This electric micro balance is completely self-contained, requiring no external power or utilities. Immune to environment, it can be placed anywhere, regardless of vibration, temperature, air currents or levelling.

The Cahn Electrobalance weighs less than 12 pounds and is enclosed in an aluminum case with an attractive blue-grey baked enamel finish. Its value is not limited to present day micro techniques. You may find it advantageous to re-evaluate other larger scale operations.

<table>
<thead>
<tr>
<th>Range</th>
<th>Sensitivity</th>
<th>Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-5 mg.</td>
<td>1 microgram</td>
<td>2.5 micrograms</td>
</tr>
<tr>
<td>0-10 mg.</td>
<td>2 micrograms</td>
<td>5.0 micrograms</td>
</tr>
<tr>
<td>0-20 mg.</td>
<td>5 micrograms</td>
<td>12.0 micrograms</td>
</tr>
<tr>
<td>0-50 mg.</td>
<td>8 micrograms</td>
<td>30.0 micrograms</td>
</tr>
</tbody>
</table>

**PRICE:** Number B-1364X Cahn Electrobalance complete with three batteries, two stirrups, ten disposable aluminum pans, tweezers, a set of calibrating weights (one for each range—0, 5, 10, 20 and 50 mg.), and an instruction manual. Overall size: 12" x 10" x 7" d. $615.00

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PIPETTE DRYER

In the laboratory, this large capacity Pipette Dryer is particularly recommended for the thorough drying of pipettes of any size up to 375 mm. in length. Cylinder is mounted on vented base with specially designed heater in lower end of cylinder. This instrument is designed to take the standard rack of a 6” pipette washer. Rack is taken out of washer, drained for about a minute, then placed right into the Dryer. This method of drying means less handling by the technician, thus greatly reducing the hazard of breakage. Complete with cord and plug, but without rack. 115 volts, AC or DC

PHIPPS & BIRD, INC.
Manufacturers & Distributors of Scientific Equipment
6th & Byrd Streets - Richmond, Va.

Without obligation, send us complete information on your Pipette Dryer.
Name .................................. Title ..................................
Company ................................
Address ..................................
City .................................... State .....

31 MAY 1957
EQUIPMENT NEWS

The information reported here is obtained from manufacturers and from other sources considered to be reliable. Science does not assume responsibility for the accuracy of the information. All inquiries concerning items listed should be addressed to Science, Room 740, 11 W. 42 St., New York 36, N.Y. Include the name(s) of the manufacturer(s) and the department number(s).

- **Filtration units** for removal of minute particles from water have capacities ranging from 3 to 10 gal/min. The fineness of particle removal ranges from 0.1 to 25 μ. (Helco Inc., Dept. S354)

- **Sweeping oscillator** covers the range of frequencies from 1000 to 15,000 Mcy/sec with a power output of from 10 mw to 1 w by means of seven interchangeable units. Used in conjunction with the manufacturer's rapid-scan Ratioscope, the oscillator makes possible direct and instantaneous measurements of reflection and transmission coefficients, directly viewable on an oscilloscope, eliminating the need for point-by-point measurements or for maintaining a constant power input to the device under test. (Polarad Electronics Corp., Dept. S351)

- **Magnet wire** coated with Teflon is being offered in a kit for research and development use. The kit contains an assortment of 12 spools of wire in gauge sizes 20 through 42 A.W.G. (Tensolite Specialties Inc., Dept. S365)

- **Magnetic-tape handler** consists of ten separate identical units or bins, each with a capacity of over 8 x 10^6 bits. Each bin normally contains 500 ft of 1-in. wide magnetic tape for 14-channel recording with 200 pulse/in. density. Each bin is equipped with its own record-playback head which may be switched by relay to a common output. Dual speeds of 30 or 60 in./sec or other combinations are provided. (Potter Instrument Co., Inc., Dept. S362)

- **Silicon** of semiconductor grade is commercially available. Three grades, research, premium, and standard, will be marketed. The research grade has a resistivity greater than 200 ohm cm and impurity content less than 1 part in 10^8. Minimum resistivity of the premium grade is 100 ohm cm and of the standard grade 10 ohm cm. (Texas Instruments, Inc., Dept. S356)

- **Gem-testing set** is based on the fact that neither index of refraction nor specific gravity separately will identify a gem but that together these properties will identify a gem with certainty. The set includes a "Refractoscope" used with six index-of-refraction liquids and a set of nine specific-gravity liquids. (R. P. Cargille Laboratories, Inc., Dept. S357)

- **Freeze drying unit** handles 300 5-ml serum bottles simultaneously. The trays upon which samples are placed revolve once each minute in front of a radiant-heating source to dry all samples uniformly. A tiling-type McLeod gage furnishes vacuum measurement. Dimensions of the unit are 12.5 by 23.5 by 15.5 in. (E. Machlett and Son, Dept. S358)

- **Stainless steel flasks**, insulated with light-weight, rigid, closed-cell plastic, are said to provide insulating properties superior to vacuum flasks. The steel flasks, of wide-mouth design, are available in 2-, 4- and 8-lit capacities. (E. Machlett and Son, Dept. S360)

- **Oscilloscope** covers the frequency range from direct current to beyond 50 Mcy/sec. Sweep can be driven at repetition rates as high as 250 kcy/sec and as slowly as 0.02 sec/cm. The y-axis amplifier is a three-stage direct-coupled type. Other features include a pulse rise time of 7 μsec, attenuator ranges from 0.2 to 200 v full scale and an a.-c.-d.-c. synchronizing circuit that permits selection of the portion of the synchronizing signal from which to trigger the sweep. The oscilloscope is built up of six interchangeable units. All operating voltages are regulated. (Allen B. DuMont Laboratories, Inc., Dept. S359)

- **Nuclear power packs** are capable of delivering energy pulses up to 337,000 ergs. The power pack is based on a nuclear battery which converts nuclear energy directly into electric energy in current ratings from 5 to 5000 μa and equilibrium voltages in the order of 10 kv. The battery current is used to charge...