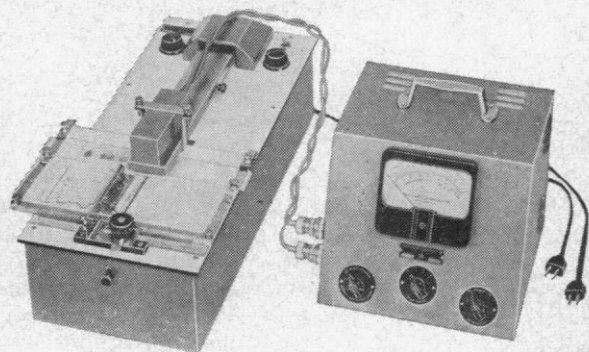


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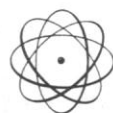


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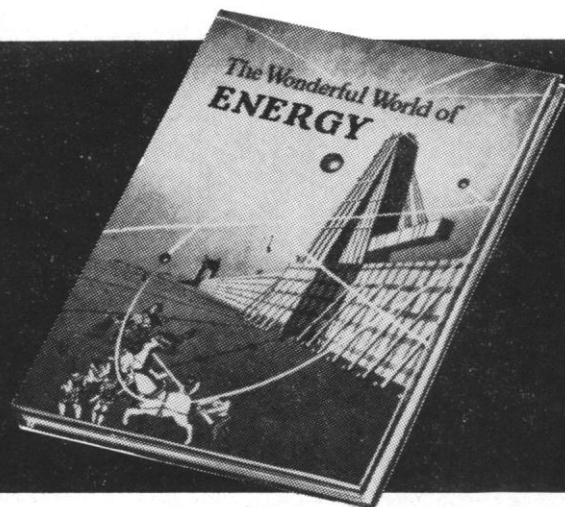
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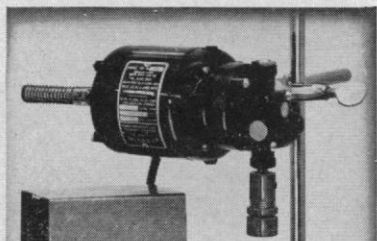
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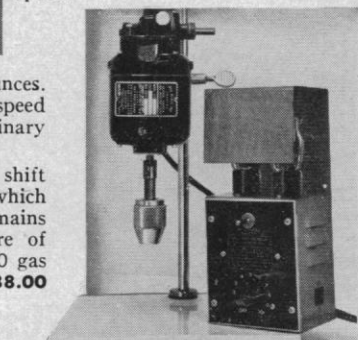
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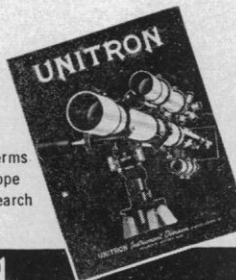
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■ **FREEZE DRYER** for biological tissues and other heat-sensitive materials uses a glass vacuum system divided into replaceable units connected by ball-and-socket joints. Vacuum is provided by a diffusion pump of 60 lit/min capacity at 1  $\mu$ , backed by a mechanical pump with free air capacity of 58/lit min. Specimens are frozen by a mixture of Dry Ice and trichloroethylene. Moisture is collected by a liquid-nitrogen cold finger. (Fisher Scientific Co., Dept. S734)

■ **X-RAY DIFFRACTOMETER** designed for powder diffraction work can accommodate high- and low-temperature chambers, devices for preferred orientation and pole-figure studies, and focussing monochromators. Scintillation, proportional-, flow-, or Geiger-counter units provide a choice of detectors for all conditions. Goniometer scanning is done in a vertical plane at any of five selectable speeds. X-ray tubes with four windows permit simultaneous use of four cameras. Useful diffraction range is from  $-38$  to  $+165$  deg. (Philips Electronics Inc., Dept. S736)

■ **INDUCTANCE BRIDGE** measures from 1  $\mu$ hy to 100 hy with resolution of 0.01 percent. Direct-reading accuracy is achieved between 50 and 3000 cy/sec; a table of corrections permits measurement to 20 kcy/sec. The internal standard is a four-dial inductance of 0.05-percent accuracy. External standards of higher accuracy can be furnished. Accessories permit measurement of inductance with up to 2 amp of superimposed direct current and of capacitance from 10 pf to 1  $\mu$ f with accuracy of 0.2 percent. (British Industries Corp., Dept. S742)

■ **OPTICAL TESTER** is based on the method of Ronchi and Lenouvel in which the optical element to be tested is illuminated and viewed through a grating. The shadow lines or fringes produced provide information on the quality of the optical element. The tester, consisting of an illuminator and grating, may be hand held or clamped in position. (Ann Arbor Optical Co., Dept. S694)

■ **AUTOCOLLIMATOR** is servo operated and provides automatic, direct indication of angular displacement. Range is  $\pm 1$  min of arc with sensitivity 0.1 sec. Accuracy

is  $\pm 0.5$  percent. Response time is 0.1 sec/sec of arc, and warm-up time is eliminated by use of transistor circuitry. Output may be read visually on a calibrated dial, one revolution of which indicates 10 sec of arc, or an electrical signal, proportional to dial rotation, may be obtained from a potentiometer on the dial shaft. When it is operated at 125 v, the potentiometer furnishes output of 800 mv/sec of arc. (Davidson Manufacturing Co., Dept. S744)

■ **OSCILLOGRAPH** provides 36 channels of immediately visible photographic recording. Frequency range is from d-c to 3000 cy/sec. Chart paper is 12 in. wide; 8-in. peak-to-peak deflection is permitted in each channel. Traces are identified to permit overlap. Recording speeds range from 0.1 to 160 in./sec. Writing speed is up to 20,000 in./sec. Grid lines and timing lines are recorded optically, simultaneously with galvanometer traces. The daylight-loading paper carrier accommodates 200 ft of chart. (Minneapolis Honeywell, Dept. S745)

■ **COORDINATE CONVERTER** converts polar-coordinate input to Cartesian-coordinate output. Conversion is achieved by a sine-cosine potentiometer linked to a null-seeking servo. The potentiometer resolves the input into quadrature components according to angular position. Speed of potentiometer positioning is 360 deg/sec. Sensitivity is 0.5 mv/deg. (Mandrel Industries Inc., Dept. S748)

■ **OXIMETER** requires blood samples of less than 1 ml. The instrument reading is displayed on a panel meter or may be used to drive a standard recorder directly. Ranges are 0 to 50, 50 to 100, and 0 to 100 percent oxygen saturation. (American Electronic Laboratories, Inc., Dept. S750)

■ **STATIC ELECTRICITY MEASURING INSTRUMENT** determines static potential on the basis of the ionization of air in the vicinity of the charge, by which a sample of the charge is conducted to the instrument. Range is 0 to 500 kv. Attachments make it possible to measure in inaccessible areas. The instrument is hand-held. (United States Radium Corporation, Dept. S751)

■ **AUTOCCLAVE** uses a single dial to control the sterilizing cycle, including filling, standby service, sterilizing, and venting. Internal pressure is variable from 7 to 27 lb/in.<sup>2</sup>, corresponding to steam temperatures of 230 to 270°F. Safety features include pressure-safe door which cannot be opened until pressure is relieved, low-water cut-off, and relief valve. Dimensions are approximately 24 by 14 by 19 in. Capacity is 1017 in.<sup>3</sup> (Wilmot Castle Co., Dept. S752)

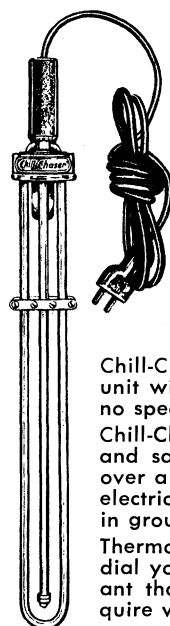
■ **SAMPLE COOLER** is designed for pressures up to 5000 lb/in.<sup>2</sup> (gage) and temperatures to 1200°F. The heat exchanger is of the shell-and-tubular-coil type. Material is stainless steel, heliarc-welded. The outer shell is 3½ in. in diameter by 11¼ in. long. (Technical Engineered Products Inc., Dept. S754)

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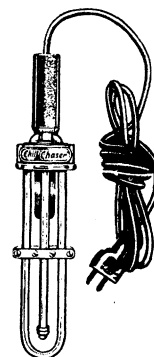
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C	250	62°-126°F	J	850	115°-212°F	12"	16"	1 5/8"	25.00
D	250	62°-115°F	K	850	125°-212°F	15"	19"	1 5/8"	26.00
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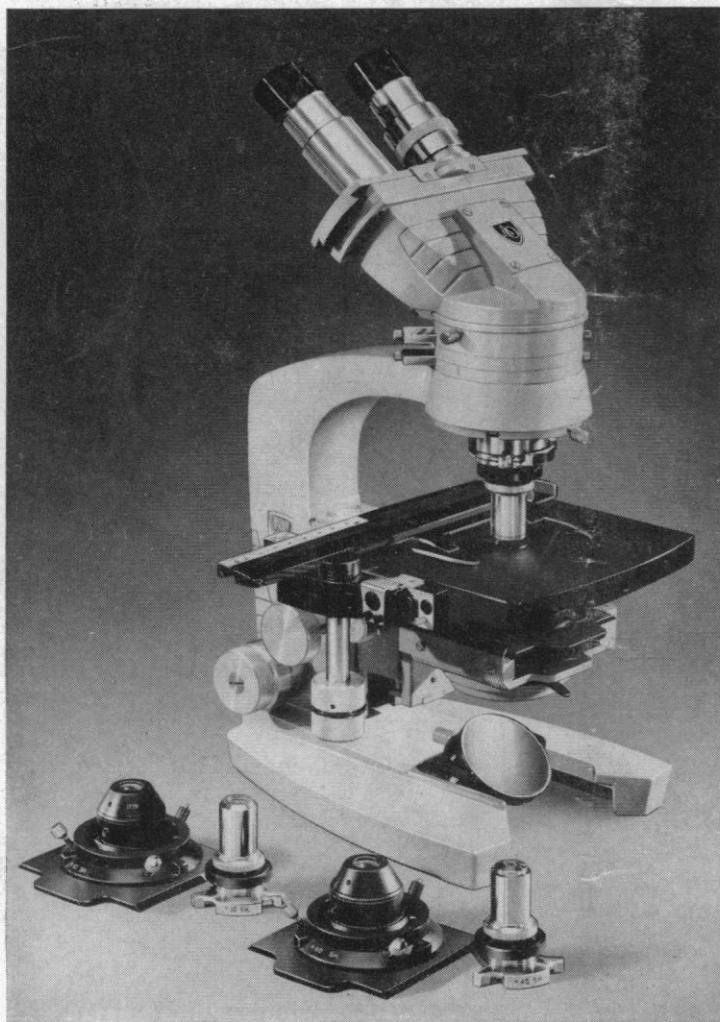
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