percent of each component. The three models available can handle 4-, 8-, or 12-component mixtures. (Podbielniak, Dept. 106)

- **Residual Chlorine Analyzer** generates a current, by means of two electrodes made of dissimilar metals, proportional to the amount of free or total residual chlorine in a line. Electrodes are kept clean by small glass spheres that circulate across their surfaces. Residual chlorine is recorded in parts per million on standard recorder charts. (Fischer and Porter, Dept. 111)

- **Film Card Reader** for large-size documents copied on 35 mm microfilm features an 18-by-24-in. screen. A 500-watt lamp provides illumination. Adapters are available for roll film. (Eugene Dietzgen, Dept. 103)

- **Power Supply** for special tubes furnishes 500 to 5000 volts at 0 to 10 ma. Output is positive, negative, or floating. Maximum ripple is 10 mv peak-to-peak. Voltage may be reset within ±0.05 percent. (Alfred Electronics, Dept. 107)

- **Airborne Amplifier** for thermocouple and strain-gage amplification and telemetering operations is designed to operate from 28-volt d-c or 6.3-volt, 400-cy/sec a-c. Input is ±5 ma at over 20 kohm impedance. Gain is 400 to 1000, and bandwidth is 0 to 1000 cy/sec. Output impedance is less than 10 kohm. Operating temperature range is −55° to +125° C; altitude range, up to 100,000 ft; vibration up to 10 grav at 2 key/sec. (Southwestern Industrial Electronics Co., Dept. 109)

- **Accessories for Tissue Grinders** include a motor, support, and cooling-chamber assembly. An adjustable-stroke mechanism permits up and down movement of the pestle within the homogenizer tube. The cooling chamber holds the tube firmly in an environment of crushed ice or other coolant. (Kontes Glass Co., Dept. 112)

- **Vapor-proof Emergency Suit** is opened and closed by a self-sealing slide fastener extending from the left knee, over the left shoulder, and around the head. A ratchet adjustment is provided for head-band size. All seams are cemented; no needle holes are present. Several types of respiratory apparatus are accommodated, and the suit may be furnished with a sound-powered communications system. The suit is designed to accommodate a man up to 6 ft 4 in. tall and weighing 250 lb. (Union Industrial Equipment Corp., Dept. 113)

- **Communication Monitor** guards against failure of telephone communication lines. The instrument operates by sending an analog voice sample with the voice signal along a telephone line and comparing the two signals at the other end of the line being monitored. Differences in voltage between the compared signals indicate the degree of trouble. If service is unsatisfactory, the call is automatically switched to an alternate line. (International Telephone and Telegraph Corp., Dept. 110)

- **Rectifier Test Set** has forward-current ranges 0 to 1 and 0 to 5 amp. Reverse-voltage range is 0 to 1000 volts. Average forward voltage drop is measured from 0 to 1 volt, and average reverse current in four ranges from 0.1 to 100 ma. Four 1-percent meters are used for indication. (Wallson Associates, Dept. 118)

- **Degausser** is designed to accommodate all sizes of instrumentation tapes and magnetic films. Tape is carried on a pushbutton-controlled, motor-driven turntable. Degaussing is accomplished in a predetermined 20-sec cycle. (Magnasync Manufacturing Co., Dept. 117)  

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