The Fisher Freeze-Dryer, developed with and for a University of Pittsburgh surgical research team, now gives hospitals a simple, efficient, semi-automatic apparatus that lyophilizes blood vessels and other tissues to replace damaged organs. It will also prepare all types of tissues for examination, and dry antibiotics, bacterial cultures or other heat sensitive materials...all without injury or deterioration.

Among the advantages of the Fisher Freeze-Dryer are: speed of specimen preparation, simple technique, automatic operation, and all-purpose usage. It will be worth your while to learn more about the many possibilities of this versatile new apparatus.

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Delicate Tissues
without Deformation

The Fisher Freeze-Dryer is 10^{12}/sec; maximum thermal neutron flux is 10^9/cm^2/sec. The electron beam can be magnetically deflected or scanned to provide a uniform field. (Applied Radiation Corporation, Dept. S740)

- MOISTURE AND DENSITY METER yields density measurements accurate within 2 lb/ft^2 over the range from 50 to 150 lb/ft^2; and moisture measurements accurate within 0.75 lb/ft^2 from 0 to 100 percent moisture content. Time required for each measurement is 2 min. The instrument operates on the principle that the scattering of gamma radiation is a function of density and that the scattering of neutrons is a function of moisture concentration. Measurement of the scattered radiation provides the required information. The moisture probe contains a radium-beryllium source of fast neutrons; the density probe a cesium-137 gamma source. The probes normally sample a sphere of 1/4 in. average diameter. Measurements may be made at depths up to 60 ft. (Nuclear Chicago Corp., Dept. S739)

- AUTOMATIC TITRATION APPARATUS is designed for connection to a plant stream. The apparatus samples the stream at intervals and, under the control of electronic programing instruments, performs a titration with a standard reagent. The volume of reagent used is detected photoelectrically and recorded. The chemical unit in which the analysis is performed and the electronic control unit which determines the sequence of operations are separately housed. The time cycle of titration can be varied from 3 to 30 min. Operation on a 24-hr basis is said to require no attention beyond a routine weekly inspection. (Robertshaw-Fulton Controls Co., Dept. S738)

- ELECTROLYTIC CONDUCTIVITY RECORDER is battery operated. Chart drive is provided by clockwork. Circuitry has been transistorized to minimize battery drain. Conductivity is recorded on a circular chart by a self-balancing Wheatstone bridge excited at a frequency of 1000 cy/sec. Measurements of electrolytes ranging from distilled water to strong acids can be made. Automatic or manual temperature compensation can be provided. (Industrial Instruments, Inc., Dept. S737)

- LINEAR AMPLIFIER for use with radiation detectors has input sensitivity of from 200 µ to 1 mV. Linearity is better than 1 percent from 9- to 90-v output. Stability is better than 1 percent after 24-hour warm-up. Gain is variable between 2000 and 12,000, depending on band width. (Victoreen Instrument Co., Dept. S735)

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