

Rapid centrifugal preparation

with the *Spinco* Model L

ULTRACENTRIFUGE

- VACUUM
- 162 ml—40,000 rpm
- REFRIGERATED



FULLY-AUTOMATIC features make the Spinco Model L Preparative Ultracentrifuge operationally self-supervising. Simple speed- and time-controls are preset by operator and electronic unit brings rotor to speed, times run, and decelerates with smoothly operating automatic brake.

Various sizes and types of interchangeable rotors mount in operating chamber with instantaneous coupling. Time between runs, using pre-loaded rotors, is less than a minute. Speed and vacuum are established almost simultaneously. Acceleration time for the 40,000-rpm rotor is only four minutes.

SAFETY FEATURES include automatic overspeed cutout; interlocks to prevent running at high speeds without vacuum in chamber and prevent breaking vacuum or opening chamber while running at high speeds. Rotor chamber is encased in thick double steel guard.

UNIT IS SELF-CONTAINED, of worktable height, and requires only electric connection for installation. Spinco electric drive and gearing system are of types proved in more than 100,000 hours of actual field operation. Self-balancing feature eliminates weighing of loaded tubes. Controllable refrigeration holds rotors and contents at any temperature down to -5°C .

In operation, the Model L applies forces up to 144,000 times gravity on 162 ml of material at a maximum speed of 40,000 rpm. Individual rotor tubes have sealing caps—are available in plastic or metal. Rotors provide second vacuum seal in quickly-detachable cover with integral lifting device. Wide selection of rotors is available with largest holding 1700 ml—

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biochemical complexity is an interesting possibility. Associated with this is his suggestion concerning heterozygosity and mixed enzymes. His views on adaptive enzymes, mutagenesis, and crossing-over are certainly provocative. For the biochemist, this book will indicate some of the questions that the physiological geneticist wants answered; for the geneticist, the book will indicate some of the potentialities of a biochemical approach.

HERMAN B. CHASE

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New Books

- Plant Regulators in Agriculture.** H. B. Tukey, Ed. Wiley, New York; Chapman & Hall, London, 1954. x + 269 pp. Illus. \$5.50.
- Annual Report of the Board of Regents of the Smithsonian Institution.** Showing the operations, expenditures, and condition of the Institution for the year ended 30 June 1953. Pub. 4149, 1954 (Order from Supt. of Documents, GPO, Washington 25). ix + 481 pp. Illus. + plates. \$3.75.
- The Design and Use of Instruments and Accurate Mechanism.** Underlying principles. T. N. Whitehead. Dover, New York, printing 2, 1954. xiv + 283 pp. Illus. Paper, \$1.95; cloth, \$3.50.
- Exploring Our National Parks and Monuments.** Devereux Butcher. Houghton Mifflin, Boston, ed. 4, 1954. viii + 288 pp. Illus. \$4.50.
- Plastics Engineering Handbook.** Society of the Plastics Industry. Reinhold, New York, ed. 2, 1954. xxxv + 813 pp. Illus. \$15.
- Teen-Agers.** A health and personal development text for all teen-agers. Gladys Gardner Jenkins, W. W. Bauer, and Helen S. Shacter. Scott, Foresman, Chicago, 1954. 288 pp. Illus. \$3.60.
- Bibliography and Index of Geology Exclusive of North America.** vol. 18. Marie Siegrist, Mary C. Grier, and Marcia Lakeman. Geological Society of America, New York, 1954. xiv + 599 pp.
- Readings in General Psychology.** Lester D. Crow and Alice Crow. Barnes & Noble, New York, 1954. x + 437 pp. Illus. Paper, \$1.75.
- Monomeric Acrylic Esters** Edward H. Riddle. Reinhold, New York, 1954. vii + 221 pp. Illus. \$5.
- Men of Other Planets.** Kenneth Heuer. Viking, New York, reissue, 1954 (Pellegrini & Cudahy, New York, 1951). ix + 160 pp. Illus. \$3.
- Collections of a Century.** The history of the first hundred years of the National Museum of Victoria. R. T. M. Pescott. National Museum of Victoria, Melbourne, 1954. x + 186 pp. Illus.
- Practical Physiological Chemistry.** Philip B. Hawk, Bernard L. Oser, and William H. Summerson. Blakiston, New York, ed. 13, 1954. xvi + 1439 pp. Illus. \$12.
- An Introduction to the Study of Fossil Plants.** John Walton. Black, London, ed. 2, 1953 U.S. distr.: Macmillan, New York. x + 201 pp. Illus. \$4.75.
- Explaining the Atom.** Selig Hecht. Rev. by Eugene Rabinowitch. Viking, New York, 1954. xviii + 237 pp. Illus. \$3.75.
- Biochemical Determinants of Microbial Diseases.** René J. Dubos. Harvard Univ. Press Cambridge, 1954. viii + 152 pp. \$3.50.

Miscellaneous Publications

- Notes on Frogs of the Genus *Telmatobius*, with Descriptions of Two New Peruvian Species.** Fieldiana; Zoology, vol. 34, No. 26. Karl P. Schmidt. Chicago Natural History Museum, Chicago, 1954. 10 pp. Illus. 20¢.
- Rabies.** Bull., vol. 10, No. 5. World Health Organization, Geneva, 1954 (Order from Columbia Univ. Press, New York 27). 166 pp. Illus. \$1.50.
- Carbonizing Investigations.** pt. 1, *A Review of the Literature.* Wool Textile Research Labs. Tech. Paper No. 2. D. H. Simmonds. Commonwealth Scientific and Industrial Research Organization, Melbourne, 1954. 12 pp.
- Notulae Criticae ad Floram Hispaniae Pertinentes, I.** Bull., Botany, vol. 1, No. 4. V. H. Heywood. British Museum (Natural History), London, 1954. 40 pp. 10s.
- Design of Flexible Pavements.** Highway Research Bd., Research Rpt. 16-B. Natl. Acad. of Sciences-Natl. Research Council, Washington 25, 1954. 77 pp. Illus. \$1.05.
- Forest Statistics for New York Forest District No. 2.** F. S. Ser., N.Y. No. 4. 19 pp. **Forest Statistics for New York Forest District No. 4.** F. S. Ser., N.Y. No. 5. 19 pp. **Forest Statistics for New York Forest District No. 5.** F. S. Ser., N.Y. No. 6. 19 pp. Northwestern Forest Expt. Sta., Upper Darby, Pa., 1954.
- Taxonomic Status of the Mid-Gulf Coast Amphibia.** Tulane Studies in Zoology, vol. 1, No. 12. Imogene R. Hill. Tulane Univ., New Orleans, 1954. 25 pp. Illus. 35¢.
- Washability Studies of Four Virginia Coals.** Bull., Engineering Expt. Sta. Ser., No. 94. Carl Shelton, Jr. Virginia Polytechnic Inst., Blacksburg, 1954. 40 pp. Illus. 25¢.
- On the Problem of the H α Emission in the Shell Stars.** Contribs. No. 32. Anne B. Underhill. 8 pp. Illus. **On the Strength of the Helium Lines in the O-Type Stars.** Contribs. No. 35. Anne B. Underhill. 13 pp. Illus. Dominion Astrophysical Observatory, Victoria, B.C., 1953.
- Water Waste Control at the Plumbing Fixture.** William R. Wallin. Dole Valve Co., Chicago 12, 1954. 7 pp. Illus.
- Meteorología Marítima y Ciclones Antillanos.** Ernesto Sifontes. The author, Estación Meteorológica-Hidrográfica, Ciudad Bolívar, Venezuela, 1953. 59 pp. Illus.
- Gains for Handicapped Children.** Pamph. No. 212. Herbert Yahraes. Public Affairs Committee, New York 16, 1954. 28 pp. Illus. 25¢.
- Quality and Stability of Canned Meats.** A symposium. Robert G. Tischer, James M. Blair, and Martin S. Peterson, Eds. Natl. Acad. of Sciences-Natl. Research Council, Washington 25, 1954. (Order from QM Food and Container Inst. for the Armed Forces, Chicago 9). 135 pp. Illus. Gratis.
- Attitudes of Male Alcoholic Inmates toward Marriage, Family, and Related Problems.** Arthur Lerner. Natl. Assoc. for Mental Health, New York 19, 1954. 15 pp.
- Report of the Committee on the Measurement of Geologic Time, 1952-1953.** Pub. 319. Natl. Acad. of Sciences-Natl. Research Council, Washington 25, 1954. 187 pp. Illus. \$1.50.
- Report of the Third Conference on Nutrition Problems in Latin America.** Caracas, Venezuela, 19-28 Oct. 1953. Nutrition Meetings Rpt. Ser., No. 8. Food and Agriculture Organization of the United Nations, Rome, 1954 (Order from Columbia Univ. Press, New York 27). 60 pp. 50¢.
- Report to Congress on the Mutual Security Program for the Six Months Ended June 30, 1954.** Foreign Operations Administration, Washington 25, 1954. 63 pp. Illus.