FAT SPLITTING—BATCH

W & S processes offered range from straight chemical treatment as in complete saponification of soapstock followed by washing and release of 100% fatty acids with mineral acid, or direct acidulation followed by pressure splitting up to 600 psig., using our own developments in batch or semi-continuous autoclave operation. The specific method best suited will be recommended by W & S based upon fatty materials to be used, facilities available, and end use intended for the fatty acids.

FAT SPLITTING . . . SEMI-CONTINUOUS

Semi-continuous fat splitting offers the advantages plus features not practical in continuous splitting. It operates on a cyclic basis at 400-600 psig. usually without catalyst and delivers splits of 98-100% resulting in greater glycerine yield and decreased distillation losses. A different fat may be used in each cycle without effecting daily output. Major controls are automatic thus reducing labor attention.

CONTINUOUS FATTY ACID DISTILLATION

The heart of the unique W & S process is the hollow, Dowtherm heated bubble cap tray, coupled with effective deaeration, drying, minimum operating temperatures and accurately controlled fractional condensation of the distillate. As a consequence, yields of 99% or more on many materials, plus outstanding product qualities, are now obtained in a single, continuous distillation. Where desired, continuous color stabilization or bleaching can be coupled directly with the distillation system. The economies effected with the W & S process now make fatty acid distillation a profitable operation for outputs as low as 1000 pounds per hour.

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A Division of Jacobs Engineering Co., Pasadena, Calif.—Linden, N.J.

• *New Products*

LACHAT CHEMICALS INCORPORATED, Chicago, Ill., announces the development of LC-1, high-performance super stationary phase for gas chromatography. LC-1 has unusually good overall separating ability for a broad range of chemical compounds including lipids, alcohols, steroids, ketones and other products, with a remarkable base-line stability, for example, a drift-free base-line in temperature programming from 100 to 350 C. In laboratory performance a 3% concentration of LC-1 in gas chromatography columns gives over 1,000 plates (theoretical) per foot in the separation of high-boiling compounds. We routinely use LC-1 with good results after only one initial temperature programming up to 300 C.

The Millipore Ultrasonic Cleaner quickly cleanses precision parts and mechanisms. Producing the highest effective output power of any small unit available, the Millipore unit can be used to recover particulate surface contamination for analysis (technique is described in ASTM-24-65) or to accelerate or catalyze many chemical reactions. The self-tuning, solid-state unit produces 25 watts of effective power and has a fluid capacity of eight ounces. Descriptive bulletin UC-1 is available free, on request, from MILLIPORE CORPORATION, Bedford, Mass. 01730.

AMERICAN INSTRUMENT COMPANY, Silver Spring, Md., has developed a dual-wavelength chromatogram scanner, utilizing the light of two wavelengths and separated by an integral duochromator, which scans the same TLC plate area. This technique, researchers say, rejects extraneous support background and permits precise quantitative analysis of all types of chromatographic materials. The instrument can function as a dual-wavelength spectrophotometer, single-beam spectrophotometer or fluorometer. It is believed that the dual-wavelength method provides the most effective means available for obtaining quantitative information from chromatographic plates, strips and similar media. It is especially advantageous because it substantially reduces the large and irregular background signals due to the absorbance and scattering of the chromatographic medium.

A new manual preparative chromatograph is now available from WATERS ASSOCIATES, Framingham, Mass. Called Chromato-Prep, the new instrument is capable of fractionating samples in any of three modes selected by the user: liquid-liquid partition, liquid-solid adsorption, or molecular size. Separations flexibility makes the Chromato-Prep useful in a wide range of applications. The instrument's ability to provide high purity, single species fractions of organic compounds is also of considerable importance. Chemists doing work in detergents, insecticides, pharmaceuticals, and biological systems will find these fractions particularly valuable.

A new safety shield, designed for easy positioning around tall, narrow laboratory apparatus, has been announced by INSTRUMENTS FOR RESEARCH & INDUSTRY, Cheltenham, Pa. Designated as Lab-guard/U, this transparent shield supplements the manufacturer's line of acrylic plastic safety shields for the protection of laboratory personnel and apparatus. The new shield is unique in that it fits around tall, narrow equipment such as extraction columns, and provides protection at the sides as well as the front. Being open in the back, the U-shaped shield may be quickly installed around apparatus which is already in place. Thermoformed from a single sheet of crystal-clear acrylic plastic, ¼ in. thick, Lab-guard/U provides a tough, shatter-resistant, fully transparent barrier between the laboratory worker and the apparatus.

TROEMNER'S new Model 700 submersible magnetic stirrer with variable speed stirs a beaker, flask or eight test tubes, immersed. It mixes up to 1500 ml of water with consistent stirring action and easily stirs 100% glycerol at 20 C. It is fused for complete safety under water.