

## • *New Products*

Deltair Products, Villa Park, Ill., has a new line of low temperature utility cabinets in sizes of 5 and 13 cu. ft. with five temperature ranges to  $-120^{\circ}\text{F}$ .

A continuous-flow defoaming system using sonic energy has just been introduced by Teknika, Inc., Hartford, Conn. The new "in-line" defoaming system incorporates Teknika's Airjet Sonic Defoamers. Any quantity of foam entering this chamber is destroyed continuously by sonic energy.

Barnstead Still and Sterilizer Co. announces the development of automatic starting, stopping, and regenerating controls for its line of Mixed-Bed, Two-Bed, and Four-Bed Demineralizers in capacities up to 2500 gallons per hour.

A new Solution Metering Pump which precisely delivers minute quantities of a variety of liquids is being marketed by the Scientific and Process Instruments Division of Beckman Instruments, Inc.

Arthur H. Thomas Company offers an explosion proof cabinet, with a novel infrared firing device, providing complete protection during combustion of organic compounds by the Schoniger oxygen flask technique.

## Dickinson Buys Texas Testing Laboratories

The Texas Testing Laboratory at El Paso, Texas, has been sold by Paul D. Gretian to George G. Dickinson. The laboratory will be operated under the name of Dickinson Laboratories.

## • *Names in the News*

Victor Mills (1940) retired September 1 after 35 years of service with Procter and Gamble. He was director of P&G's Exploratory Development Division during the past six years. P&G's continuous soap making method was developed and patented under his direction during the 1930's. The Mills patents, more than a score, range across many phases of fat and detergent technology.

Edward A. Knaggs (1956) has been appointed Director of Research for the Industrial Chemicals Division of the Stepan Chemical Company, Northfield, Illinois. He had been Associate Technical Director. Mr. Knaggs previously was Chief Chemist for Ninol Laboratories, Inc., joining Stepan in 1957 when Ninol was merged with Stepan Chemical. He holds a number of U.S. and foreign patents covering products in the detergent field.

W. E. "Tony" Santoro (1947) has been appointed Technical Director of James B. Sipe and Company, Pittsburgh, Pa. Mr. Santoro has been a member of the New York Society for Paint Technology and Federation for the past 20 years and was elected President in 1954. His contributions to the paint field earned him the PaVac Award in 1957 and the Dr. Roy H. Kienle Award in 1960.

## • *Fatty Acids*

August production of fatty acids, as classified under Categories Nos. 1-13, totaled 50.1 million pounds, up 14.0 million pounds from July, but down 3.2 million pounds from August 1960. Production of saturated fatty acids was 18.3 million pounds, compared with 14.1 million pounds in July and 22.2 million pounds in August last year. Unsaturated fatty acid production, including the tall oil types, was 31.8 million pounds, versus 22.0 million pounds in July and 31.1 million pounds in August 1960.

Disposition of all fatty acids amounted to 55.5 million pounds, up 13.5 million pounds from July and up 3.9 million pounds from August last year.

Finished goods inventories totalled 38.6 million pounds on August 31st, down 2.3 million pounds from the July

31 figure. Work-in-process stock amounted to 17.1 million pounds, compared with 14.5 million pounds at the end of last month.

## • *Industry Items*

Universal Oil Products Company will build a rubber additive plant at Des Plaines, Ill. Capacity will exceed a million pounds annually of an additive to protect rubber from deterioration by ozone.

Chemical Flow Corporation, Little Falls, N.J., has developed an adapter which permits coupling of lead cup sinks to Pyrex drain pipes.

Gelman Instrument Company, Chelsea, Mich., offers a carbon monoxide analyzer which gives accurate results in a few seconds. It can be used as a continuous analyzer of air and gases.

Hagen Chemical and Controls, Inc., Hagen Center, Pittsburgh 30, Pa., offers a pocket-size, five ounce kit for testing hydrogen sulfide in water.

Hoffmann-La Roche Inc. has reduced the price of vitamin A. The new base price in liquid forms is 7¢ per million units. The former prices were 7½¢ and 13¢, respectively.

The Dow Chemical Company has announced that a recent Food and Drug Administration regulation clears two latexes for long-term use in food contact application.

The new \$2 million plant of the Dow Badische Chemical Company at Freeport, Texas, is now producing normal- and iso-butanol. The plant can produce 24 million pounds yearly, adding about 10% to the nation's capacity.

Wallace & Tiernan Inc., Belleville, N.J., offer a continuous dissolved-oxygen analyzer which measures and records micro amounts of oxygen in boiler and other water systems. They also have a residual chlorine indicator which analyzes treated water continuously.

Monsanto Chemical Company will build an ammonia plant at Muscatine, Iowa, to supply the growing demand for nitrogen fertilizer materials in the Midwest.

Monsanto Research Corporation will produce and market radioactive sources at its Dayton Laboratory. Alpha and neutron sources from both polonium-210 and plutonium-239; and fission foils from neptunium, uranium, and plutonium will be offered.

Tenneco Chemical Company plans a 200 million pound-per-year vinyl chloride monomer plant at Stamford, Connecticut. The plant will employ newly-developed techniques in vinyl chloride manufacture, and will be built on the Houston Ship Channel.

Plans for a \$600,000 addition to the Montreal plant of the Foxboro Company, Ltd., have been announced. Actual construction will start soon and it is expected that the building will be ready for occupancy early next Spring.

Hereules Powder Company, largest commercial producer of polypropylene in the U.S., has completed its multi-million-pound polypropylene fiber plant in Covington, Virginia. This plant, with an initial annual capacity of 12 million pounds, can be expanded for future demands.

The contract for the design, and construction of a 30-million-pounds-per-year phthalic anhydride plant has been awarded to Badger Manufacturing Company by California Oil Company, Eastern Division. The plant will be constructed at Perth Amboy, New Jersey.

The largest automatic glass-blowing machine of its type in the world was put into production by the Kimble Glass Co. recently. The "paste mold" machine will be used by Kimble to produce its "Kimax" (hard glass) line of scientific glassware. The machine itself is three stories high, cost \$1.5 million, and blows seamless thin wall ware of high quality.

# SEMI-CONTINUOUS DEODORIZER

*finer edible oils at lower operating costs*

The basic and patented concept and design of the VOTATOR Semi-Continuous Deodorizer overcomes inherent disadvantages of batch and fully continuous deodorizing methods and equipment. VOTATOR equipment produces edible oils recognized for their high quality, and produces them at lower costs. For instance, stripping and vacuum steam requirements are reduced 60 to 75% as compared to that needed in conventional deodorizers of equivalent capacities, and neutral oil losses are kept to a minimum.

In addition, it is the only deodorizer that provides maximum flexibility of operation permitting rapid changes in both types of oil and custom blends being handled. In fact, one stock or blend can immediately follow another without contamination, thus eliminat-

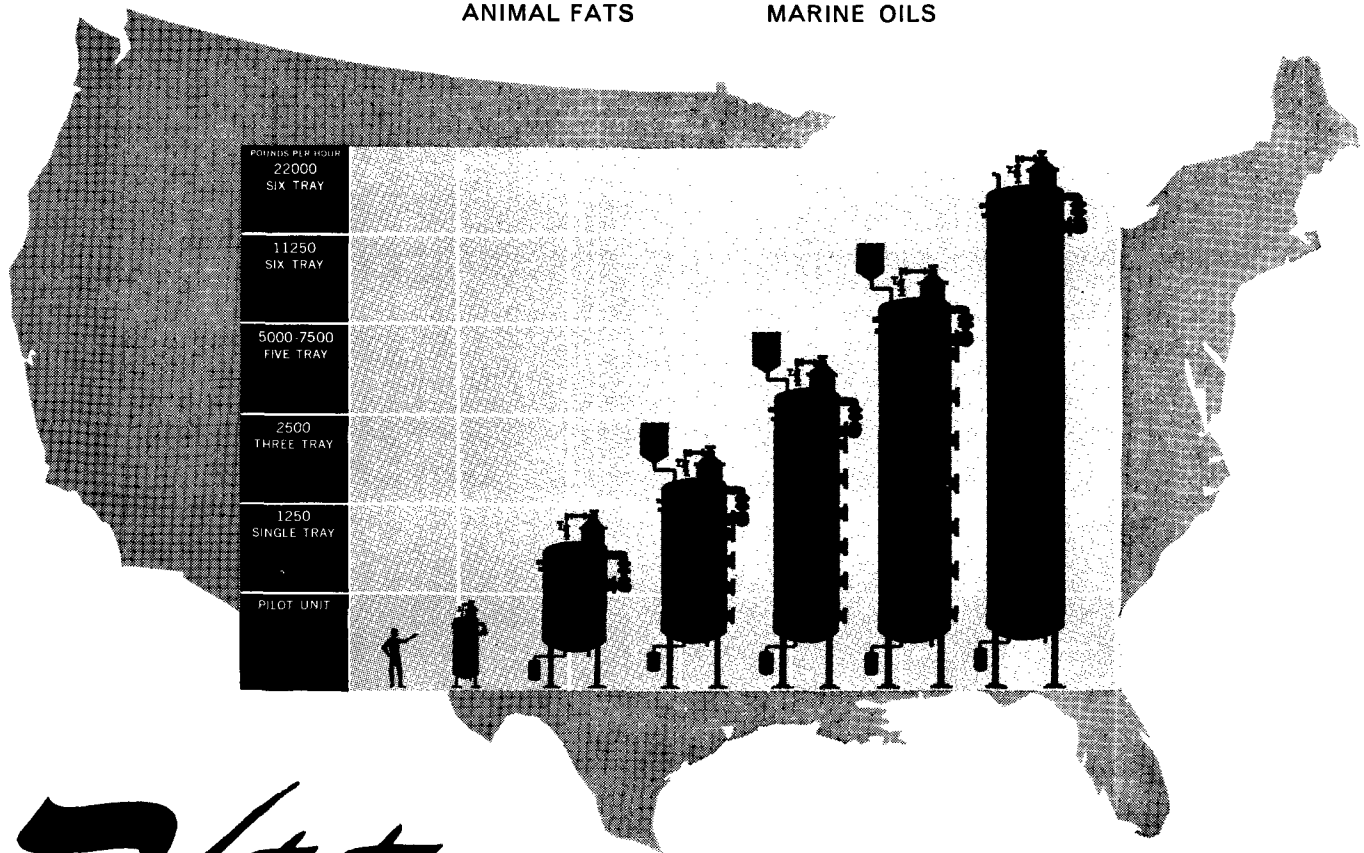
ing loss of production time.

The VOTATOR Semi-Continuous Deodorizer has become a standard for performance for upgrading oil and steam-refining, and the more than 85 units in operation throughout the United States and foreign countries attest to this fact. Chances are there is one in operation right in your area.

VOTATOR Deodorizers are manufactured in capacities to suit every need, for inside or outside installation. We study your operations and recommend the unit to best fit your specific requirements. For additional information, write today for Bulletin PED 267-16L. Girdler Process Equipment Division, Chemetron Corporation, Louisville 1, Kentucky. Sales Offices: Louisville, New York, Chicago, Marietta (Georgia), San Francisco.

VOTATOR Semi-Continuous Deodorizers are used in the production of highest quality...

SOYBEAN OIL	RAPE SEED OIL
COTTONSEED OIL	SUNFLOWER OIL
CORN OIL	COCONUT OIL
PEANUT OIL	PALM OIL
ANIMAL FATS	MARINE OILS

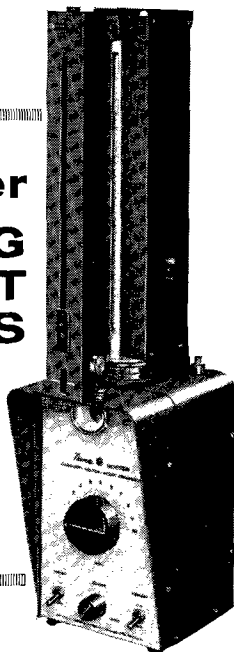


**Votator**<sup>®</sup>  
VOTATOR—Reg. U. S. Pat. Off.

a Product of **CHEMETRON** Corporation

# Thomas-Hoover MELTING POINT APPARATUS

with new  
back-lighting  
**THERMOMETER  
ILLUMINATOR**



THE HOOVER MELTING POINT APPARATUS, "Uni-Melt," which is rapidly becoming a standard instrument for determination of capillary melting points, has recently been improved to overcome fluctuation in laboratory lighting. Glareless illumination, restricted to the scale of the thermometer, is provided by an 8-watt fluorescent lamp in ventilated metal housing. The more sharply visible thermometer meniscus reduces operator eye-strain, promotes greater accuracy of individual readings and decreases the time for a series of determinations, especially when used with the Periscopic Thermometer Reader.

The Apparatus was designed by Dr. John R. E. Hoover to meet official U.S.P. requirements, and offers the following outstanding features:

- Completely self-contained, with bath unit enclosed for safety
- Lagless heat transfer for rapid heating and cooling
- Built-in capillary vibrator to insure uniform packing of sample

6406-H. Melting Point Apparatus, Hoover "Uni-Melt," with armored thermometer—10 to 360°C in 1°, 6 melting point standards, 4 oz. Silicone Fluid and 100 capillaries, but without Periscopic Reader or Illuminator. For 115 volts, 60 cycles, a.c. .... 175.00

6406-K. Ditto, with Periscopic Thermometer Reader ..... 212.50

6406-M. Ditto, complete with both Periscopic Reader and Thermometer Illuminator ..... 244.00

Accessories (For attachment to instruments already in use)

6407-A. Periscopic Thermometer Reader ..... 37.50

6407-A10. Thermometer Illuminator, for 115 volts, a.c. .... 31.50

For more detailed description, see pp 624-625  
of our new 1961 catalog

## ARTHUR H. THOMAS CO.

Laboratory Apparatus and Reagents

VINE STREET AT THIRD  
PHILADELPHIA 5, PA.

More and More Laboratories RELY ON THOMAS

## • Industry Items

A new, self-barricaded, high pressure laboratory unit is now available for a wide variety of research operations involving pressures to 5,000 p.s.i. and temperatures to 650°F. In addition to self-barricading, the unit is easily movable, thus providing maximum flexibility in location. Design and test information is offered in Bulletin 160, Autoclave Engineers, Inc., 2918 West 22nd Street, Erie, Pa.

The barrier to continuous commercial refining of coconut oil has been overcome by Podbielniak, Inc. Due in large part to Podbielniak's development of a special separator-washer, two continuous refineries show a better than 40% improvement over batch-type plants in oil losses during refining. The resulting increase in yield is enough to boost estimated world production of refined coconut oil by more than 120 million pounds.

Continental Can Company's new Technical Center, the largest and most comprehensive package research complex in the U.S., was opened recently in Chicago and nearby Plainfield, Illinois. Designed to afford the ultimate in efficiency, the Technical Center represents an investment of over \$20-million, which will provide 1,200 scientists with 13 acres of ultra-modern equipment.

## New Uses for Tung Oil

New types of protective coating and plasticizers are among the new uses for tung oil now in prospect through research, according to information given the research committee of the Pan-American Tung Research and Development League during a conference with scientists of USDA's Southern Utilization Research and Development Division in New Orleans August 22.

This is the first such meeting held with the committee at the Southern Division for some time, and at its close Chairman Goodyear expressed the idea that such meetings should be held more frequently, possibly twice a year.

T. H. Hopper, Chief of the Oilseed Crops Laboratory at the Southern Division, told the committee that research on new uses for tung oil is now proceeding along the lines of new types of coatings, plasticizers, and other new chemicals from tung oil. He reminded them that synthetics are replacing the vegetable drying oils in the coatings industry, and that tung as well as other vegetable drying oils will have to find new outlets. Considerable work has been done at the Southern Division toward developing plasticizers from tung oil.

A report of progress on the development of improved coatings was given by F. G. Dollaar, also of the Southern Division. He said that the tung oil used in the formulations which are most promising appear to give these formulations some unusual and highly desirable properties.

## • Received in the Journal Office

The June 1959 issue of Chemical Market Abstracts, a monthly compilation of about 2000 news items of market interest to the chemical industry, edited by L. J. Esteven, has been received.

Commodity Reference Series I, "The World Sugar Economy in Figures, (1880-1959), 137 pages, has come to the Journal Office from the Food and Agriculture Organization of the United Nations in Rome.

The Buyers Director of the Oil, Paint and Drug Reporter, 1961, has been received.

Volume XI of the Chemical Formulary, the latest in a series of complete reference to commercial formulation, edited by H. Bennett, has come to our attention.

Volume 23, No. 7 of the Commercial Fisheries Review, has been received from the Fish and Wildlife Service of the United States Department of the Interior in Washington, D.C.

The Digest of Expiring Patents-Pharmaceutical, published by Louis Leaman, 26 Columbia Street, Mass., has been received.

Two issues, Vol. 12, No. 1 and No. 2, of the 1961 World Fisheries Abstracts has been received. This is a bimonthly review of technical literature on fisheries and related industries.

The Journal of the Oil Technologists' Association of India has been received from Kanpur. Volume 16, Part I of the Journal contains articles on Mustard Oil, Groundnut Oil, Linseed Oil, and Til Oil.

Also received from the Oil Technologists' Association of India is the News Letter, Vol. II, 1960, containing papers on solvent extraction methods and recovery of spent nickel catalyst.

We have received from Lisbon, Portugal, a copy of Estudos Agronomicos, Vol. 2, January-March, 1961.

### • *New Literature*

BLUE M ELECTRIC COMPANY has a bulletin on Industrial Batch Ovens. Write for Bulletin No. 1961. 138th & Chatham, Blue Island, Ill.

SERVO CORPORATION OF AMERICA. A folder on Servofrax® (arsenic trisulfide glass) which is non-toxic, non-corrosive, and homogeneous. Servofrax is widely used in sophisticated infrared instrumentation where stability and increased transmission are vital. Write to 111 New South Road, Hicksville, L.I., N.Y.

THERMOLYNE CORPORATION. A 44 page description of electric furnaces, hot plates, temperature controllers, magnetic stirring hot plates, etc. Catalog No. 61, 465 Huff Street, Dubuque, Iowa.

FISHER SCIENTIFIC offers a fully illustrated 24 page brochure on the Jeol Electron Microscope. Bulletin FS-240.

CHEMTRAC CORPORATION has a 10 page catalog and price list covering its line of Carbon-14 compounds and reference sources. Write to 130 Alewife Brook Parkway, Cambridge, Mass.

PARR INSTRUMENT COMPANY announces an automatic controller for adjusting jacket temperatures in adiabatic bomb calorimeters in bulletin Spec. 2600. Address 211 Fifty-third Street, Moline, Ill.

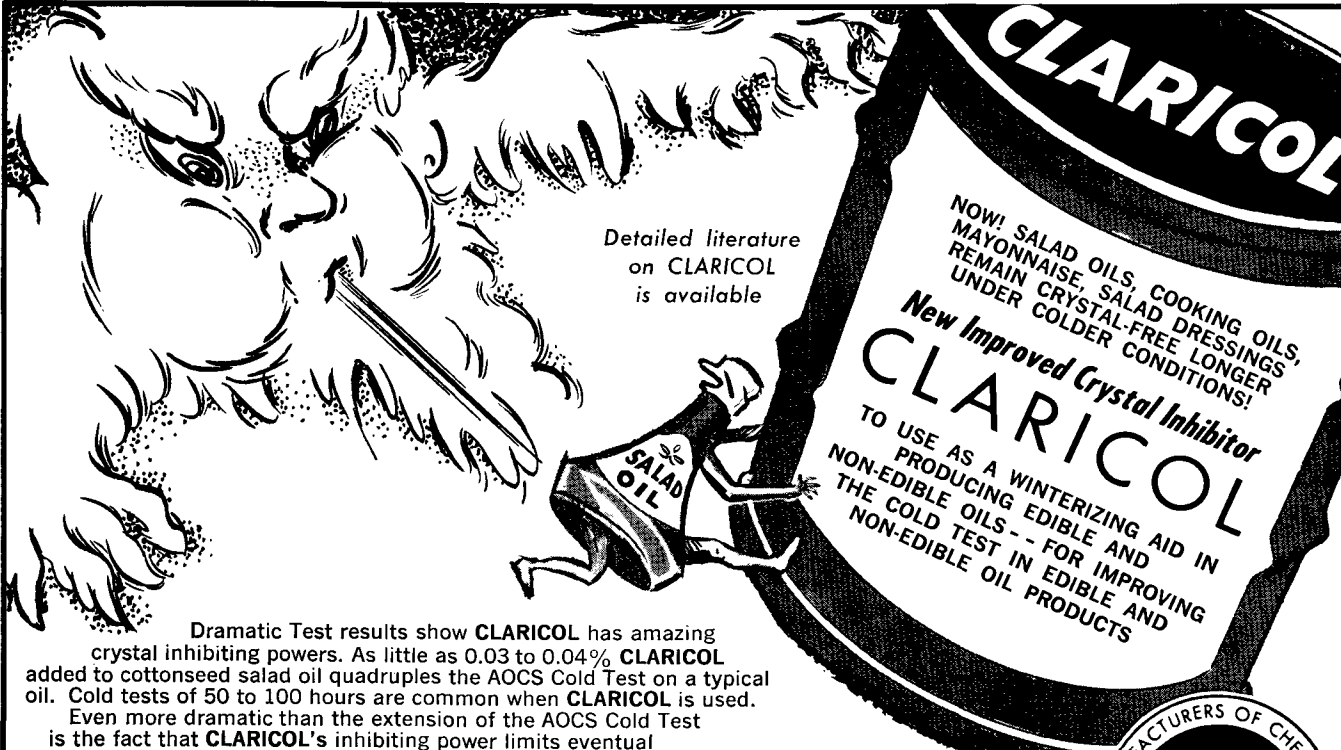
SOLVAY PROCESS DIVISION offers a new wall chart listing safety precautions in handling anhydrous caustic soda. Request A-119, 61 Broadway, New York 6, N.Y.

GLASCOTE PRODUCTS, INC., has compiled an 8 page brochure on glass protected chemical process equipment. A. O. Smith Corp., Milwaukee, Wis., Dept. 183. Ask for bulletin MG 105.

PHILLIPS ELECTRONIC INSTRUMENTS has an 8 page folder on Norelco electron microscopes, neutron generator, and electron probe microanalyzer. Address 750 S. Fulton Avenue, Mount Vernon, N.Y.

TECHNICON INSTRUMENT CORPORATION offers an 8 page methodology report describing the automatic, continuous determination of carbon dioxide in biological fluids on as little as 0.05 ml. of specimen. Address Chauncey, N.Y.

SERVO CORPORATION OF AMERICA reports the properties of infrared transmitting materials. Write to 111 South Road, Hicksville, L.I., N.Y.



Detailed literature on CLARICOL is available

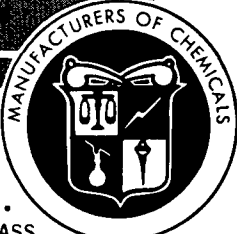
**CLARICOL**  
NOW! SALAD OILS, COOKING OILS, MAYONNAISE, SALAD DRESSINGS REMAIN CRYSTAL-FREE LONGER UNDER COLDER CONDITIONS!

*New Improved Crystal Inhibitor*  
**CLARICOL**  
TO USE AS A WINTERIZING AID IN PRODUCING EDIBLE AND NON-EDIBLE OILS -- FOR IMPROVING THE COLD TEST IN EDIBLE AND NON-EDIBLE OIL PRODUCTS

Dramatic Test results show **CLARICOL** has amazing crystal inhibiting powers. As little as 0.03 to 0.04% **CLARICOL** added to cottonseed salad oil quadruples the AOCS Cold Test on a typical oil. Cold tests of 50 to 100 hours are common when **CLARICOL** is used. Even more dramatic than the extension of the AOCS Cold Test is the fact that **CLARICOL**'s inhibiting power limits eventual crystals to imperceptible size -- no heavy floc. Adding as little as 0.02 to 0.04% **CLARICOL** to refined cottonseed oil prior to winterizing, speeds up crystal precipitation and overall production. Oils containing **CLARICOL** are more easily and rapidly filtered. The yield of winterized oil is increased and the Cold Test of the resulting oil is markedly improved. Very economical, **CLARICOL** is semi-fluid and easy to handle.

**BEACON**  
Chemical Industries, Inc.

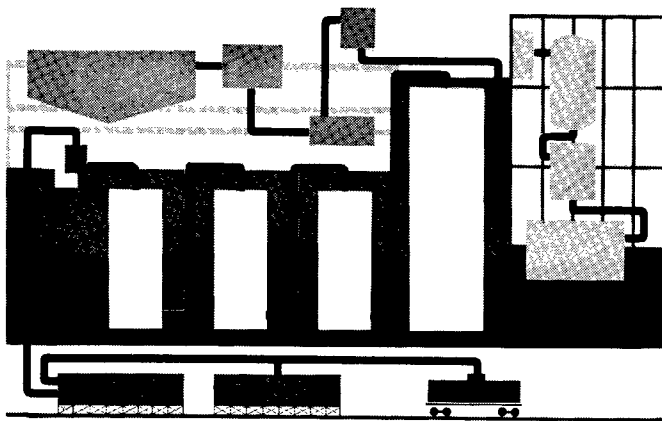
A food additive (21 CFR, Subpart D, Section 121.1016) 33 RICHDALE AVENUE, CAMBRIDGE 40, MASS.



# **BLAW-KNOX**

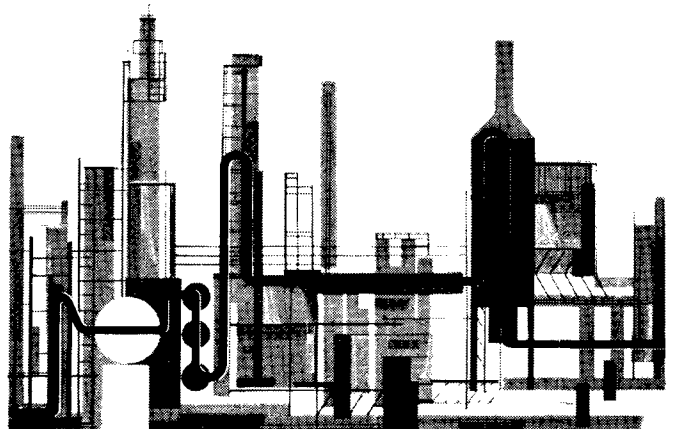
# **PROCESS**

# **-ABILITY!**



## **PROCESS-ABILITY IN GENERAL CHEMICALS**

Typical of Blaw-Knox contributions here is the cooperation with a major producer of chlorine and caustic soda, in the development of a new type of Mercury cell design. This cell is being used in several operating plants designed and built by Blaw-Knox. Blaw-Knox has completed more than 100 process plants in the general chemicals field with a value in excess of 250 millions of dollars.



## **PROCESS-ABILITY IN PETROLEUM AND PETRO-CHEMICALS**

Blaw-Knox has completed nearly 100 refining and processing plants in this broad field. Individual projects include refining of crude; production of petrochemical intermediates; production of monomers, fuel additives and plasticizers. Blaw-Knox offers many licensed processes which are made available by major oil and chemical firms both in the United States and abroad.