

New Products and Equipment . . .

Suction Strainer For Spray Rigs

Spraying Systems Co. has introduced the 8060 suction strainer for use on spray rigs. This large capacity strainer is said to provide 75% greater open screen area than previous high capacity suction strainers. It is designed for spray rig applications where a large volume of liquid per minute is to be sprayed or where the spray rig user wishes to reduce possibility of clogging and pressure loss through the strainer to an absolute minimum.

The strainer is attached to an intake hose through hose shank connection. It is designed for immersion in tank or drum and will pass through the bung hole of any standard steel drum. Liquid can be withdrawn to within 1.5 in. of tank or drum bottom with the strainer either vertical, horizontal, or in any position in between. The strainer is supplied in aluminum with monel metal screen in 50- or 100-mesh size. For complete information write for data sheet 8060 to Dept. A&F, Spraying Systems Co., 3252 Randolph St., Bellwood, Ill.

Food Peeling Concentrate

An amphoteric, nontoxic, surface-active agent is now being marketed for fruit, potato, and food peeling. Called Miranol C2M concentrate, it reduces the surface tension of the caustic soda, facilitating cleaning and peeling.

It is said also to lessen hand-brushing time in plants normally requiring such manual operation. Lower processing temperatures are possible, the manufacturer states. This surfactant has the added property of remaining stable and clear in solution. Suggested formula is 1% C2M concentrate, 1% carbitol, 20% caustic soda, and 78% water. Dilutions of this formula will work equally well for food products which require less caustic concentration for peeling.

For further technical information, write to Dept. A&F, Miranol Chemical Co., Inc., 277 Coit St., Irvington, N. J.

Dew-Duration Recorder

An instrument that records the onset and duration of dew deposition is being produced by American Instrument Co. It was developed in cooperation with two USDA scientists, J. R. Wallin and D. M. Polhemus of Ames, Iowa, who used it to gather information needed on the relation of dew duration

to secondary infection caused by crop-killing fungi. It can also be used in forecasting crop production.

Called the Aminco dew-duration recorder, it is used between rows of plants. Within 5 min. after visible dew appears on surrounding foliage, the stylus begins recording; it ceases to indicate dew within 5 min. after disappearance of visible dew.

Heart of the 3-lb. portable device is gold beater's skin which expands when dew is deposited on it, allowing a spring to move a stylus which bears on a waxed-paper recording chart. When the dew evaporates, the element dries and contracts, withdrawing the stylus from the chart. The gold beater's skin is not affected by relative humidity conditions, but by actual water deposition only, the company says.

More information is available from Dept. A&F, American Instrument Co., 8030 Georgia Ave., Silver Spring, Md.

Recording Amino-Acid Analyzer

Phoenix Precision Instrument announces an improved apparatus for the ion exchange chromatography of amino acids and related compounds. It is based on the Spackman-Stein-Moore system for separation of mixtures of amino acids, including protein hydrolyzates, tissue extracts, or biological fluids.

The apparatus basically consists of two major components: the chromatographic equipment and the analyzer unit. The chromatographic equipment includes ion exchange columns packed with classified resin, and adjustable precision pumps for buffer and reagent supply. Ion exchange columns are provided with an adjustable thermostatic control allowing automatic temperature changes during analysis. Precision pumps meter eluent buffers, which can also automatically be changed during analysis, through one of the several columns and add a precisely regulated flow of ninhydrin reagent to the effluent stream. The resulting mixture flows into a heated reaction vessel through capillary tubing. Its passage requires enough time for optimal reactions to occur, developing blue or yellow colors whenever amino acids are present.

The analyzer unit consists of the flow-photometer assembly and the multipoint recorder. The flow-photometer is designed to detect the absorbance of the continuous effluent stream at wave lengths of 440 μ and 570 μ . A precision flow-type absorp-

tion cell permits the effective light absorption path of a third detector to be shortened, thus providing a wider range of sensitivity. The flow-photometer assembly is thermostated.

The multipoint recorder prints three separate absorbance curves in different colors, each color representing the absorbance at a specific wave length. A special printing feature allows easy integration of the curve areas for fast evaluation.

For complete details, write Dept. A&F, Phoenix Precision Instrument Co., 3803-05 North 5th St., Philadelphia 40, Pa.

Continuous Blender for Dry or Liquid-Dry Mixtures

A continuous-flow blender has been developed by Johnson-March Corp. that accurately proportions, mixes, blends, and discharges a range of dry materials, or blends liquids with solids in precise quantities.

The blender, called Verticone, can be used in a variety of applications in the fertilizer and farm chemical industries.

Materials to be treated or blended are fed proportionately into the Verticone via controlled volumetric feeding equipment onto the apex of a cone. This cone causes the material to form a circular, falling curtain as it leaves the base periphery of the cone.

At the base of the cone, spray headers can be provided to disperse any desired liquid into the mixture in any proportions required. Liquid is sprayed on the blended dry material from both inside and outside the curtain as it falls onto a retention plate. Further blending of both the solids and liquids is made on the retention plate by mixing blades that automatically discharge the blended and treated material.

In applications where only solids are blended, dust control can be provided by conditioning with Compound MR solution, which keeps fine particles evenly dispersed, preventing segregation in the mix and eliminating dust. Controlled wetting in the Verticone is achieved with as little as a fraction of 1% of moisture, or it may be precisely adjusted and metered to add any specific volume of moisture desired.

For further information contact Dept. A&F, Johnson-March Corp., 1724 Chestnut St., Philadelphia 3, Pa.