

NEW PRODUCTS AND EQUIPMENT

Dow Begins Pilot Production of New Weed, Brush Killer

A new chemical for weed and brush control, developed by Dow was reported at the recent meeting of the Southern Weed Control Conference. The material, 2,4,5-trichloro phenoxypropionic acid, called silvex shows promise of greatly reduced hazard for use in cotton growing areas, according to Dow.

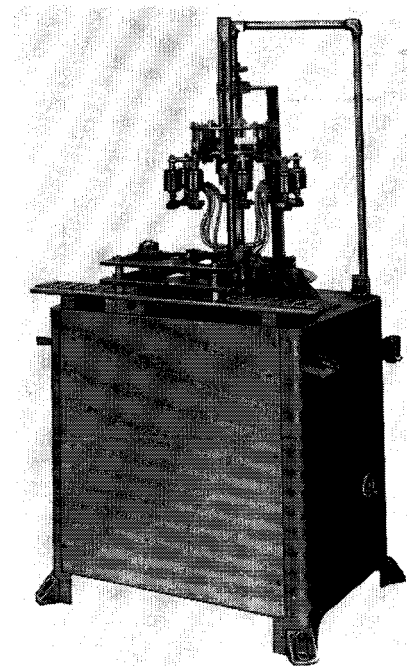
Useful formulations of the chemical include amine salts, and esters. These formulations are applied as a water spray to foliage. Dow reports that tests at the Texas Agricultural Experiment Station indicate that cotton showed no harmful effects when silvex was applied at rates substantially above the minimum injurious rate for 2,4-D.

No information on production of silvex is available at present. It will not be available for general use on crops in 1954. For the present all sales are being limited to professional formulators, principally in cotton areas.

Dow says: "Silvex now holds promise of extending the benefits of systemic weed killers to cotton areas during growing season with greatly increased safety to cotton." **PE1**

Nitrogen Depositing Machine Displaces Trapped Air

Automatic nitrogen depositing machine manufactured by MRM Co. to displace trapped air in filled food containers.



The machine has a stainless steel nozzle which fits over the mouth of the food container emitting a stream of nitrogen gas which forces out the entrapped air. Nitrogen pressure is controllable and shuts off automatically when the machine is stopped. The machine will handle containers of various sizes from fractional ounces to gallons **PE2**

Totally Enclosed Unit Cooled Motors

A line of totally enclosed unit cooled motors for operation in severe atmospheres is available from General Electric.

The new motors, available in ratings from 15 to 200 hp, permit operation at low speeds for long periods of time. The cooling units, mounted within the motor assembly, feature a 50% greater heat transfer in a 37% smaller unit than previous designs.

The blower motors, for the cooling system operate from a standard 3 phase 60 cycle current supply and can be interlocked with the main motor controller so that both are started at the same time. **PE3**

Vibro-Mixer for Closed System Laboratory Setups

A non rotating mixer apparatus is available from the Fisher Scientific Co. A totally enclosed motor vibrates the mixer shaft at a frequency of 120 times a second. A simple control regulates the amplitude of the vibrations from 0.2 mm to 2 mm in thrust.

Because it is a non rotating mixer it is possible to make hermetic seals with reaction flasks and operate the mixer under low vacuum or pressures up to 2 atmospheres.

The mixer uses standard 60 cycle 115 volt current. **PE4**

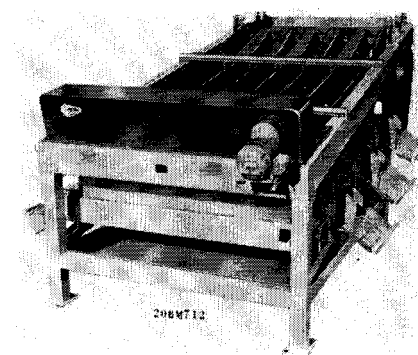
Compact Freeze Drying Units

Two new freeze drying units, one of stainless steel and the other made entirely of glass, are available from E. Machlett & Son. Both units are designed for processing small quantities of biological materials.

The stainless steel unit, with a cooling chamber of 2.8 liters has 12 baffled taps for drying flasks, each tap is rated to remove a minimum of 100 ml of water. The stainless steel unit can be autoclaved after use with infectious materials.

The glass unit is equipped with 3 drying ports, ground for standard taper glass joints. **PE5**

Size Grader with Fiberglass Pans



Molded Fiberglass has been used in place of stainless steel for the shaker pans of this high capacity size grader manufactured by the Dudley Machinery Corp. The grader is intended for size grading of fruits and vegetables **PE6**

Light Weight Mask Protects Against Chips, Dusts

Light weight plastic face mask with cotton gauze filter available from General Scientific Equipment Co. The mask protects the face and nose against nuisance dusts, chips, and other nontoxic materials **PE7**



See coupon, page 99, for further information