

Chemigation System & 500-VS Series Pumps



a DUVER company

Where Innovation Flows



Robust, Economical Solutions for Chemical Feed Applications

"E" LIMINATOR CHEMIGATION SYSTEM & 500-VS PUMPS

The Neptune™ "E" Liminator Chemigation System is a standard packaged chemical-feed system that was developed for chemigation applications that require portability. For rugged applications that require the use of heavier suspensions or high-viscosity chemicals, Neptune recommends using the Series 500-VS pump as part of the Chemigation System. This robust combination is ideal for handling viscous fluids to 5,000 cP and light slurries.

The "E" Liminator has been designed to eliminate:

- Yield-robbing pests
- The high cost of competitive application methods
- Efficiency-harming waits for commercial applicators
- Soil compaction and crop damage
- Skips and overlaps that are common when using a center-pivot spray boom
- Cumbersome system handling in small-volume applications

FEATURES & BENEFITS OF THE "E" LIMINATOR CIS-30:

- Full assembly with pump, tank, piping valves and strainer
- 30 gallon calibrated tank
- Molded base and handles for portability
- 3-phase, 460-volt motor control (500-VS available in 1-phase or 12-volt configurations)
- Calibration column marked in ounces and milliliters
- Mechanical mixer to agitate chemicals

FEATURES & BENEFITS OF 500-VS PUMPS:

- Large internal porting
- Large, single-ball suction check valve
- Standard flat PTFE diaphragm and FKM O-rings for enhanced chemical compatibility
- Variable Oil By-pass™ stroke adjustment for better performance than variable-linkage designs
- 316SS wetted parts with stainless-steel trim
- Capacities from 4 gph to 29 gph (15 L/h to 110 L/h) at 150 psi (10.3 bar)
- Able to pump high viscosity fluids to 5,000 cP like fungicides and viscous herbicides



Chemigation System with 7000Z NPA Series Pump

"E" Liminator Chemigation System & 7000Z Pumps

For "E" Liminator Chemigation System applications that require lightweight portable systems and economical operation, Neptune recommends the 7000Z Series NPA pump. 7000Z pumps deliver flow rates from 5 gph to 11 gph (1.22 L/h to 144 L/h).

FEATURES & BENEFITS OF 7000Z NPA PUMPS:

- Rolling diaphragm for reduced stress and improved life cycles
- Extended stroke design for reduced thrust loads and energy consumption
- Minimized pulsation strike for extended life and wear
- Wetted parts of PVC, PVDF and 316SS
- Can handle clear liquids from water-like to 3,500 cP
- Lightweight pumps allowing for portability

Accessories

Optional accessories that can be included on the "E" Liminator Chemigation System are:

NEPTUNE INJECTION QUILLS

Designed to inject chemicals into the turbulent flow near the center of the feed line, which results in more uniform dispersion. The injection quill mounts directly to the sidewall of lines that are 6 inches or longer. For smaller lines, the injection quill can be mounted to a coupling that is attached to a nipple that holds the quill near the center of the line.



Neptune Injection Quills

NEPTUNE DISCHARGE ASSEMBLIES

Discharge assemblies are designed with a connection point that features a self-sealing disconnect coupler for ease of use and enhanced safety. The outer covering is sealed at the discharge, while the inner tube is constructed of 3/8" polyethylene with a pressure fitting at each end.



Neptune Discharge Assemblies



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