

SNF has developed the AQUASORB Injection Module (AIM) to provide sub-surface injection of AQUASORB polyacrylamide-based, superabsorbent polymer solutions to the root zones of existing grove, orchard, and vineyard crops. The AIM unit promotes irrigation efficiency by the injection of AQUASORB superabsorbent polymer, which absorbs and retains large quantities of water and nutrients in the soil. The AQUASORB polymer slowly releases the water and nutrients over time, thereby feeding the crops during absorption and release cycles.



## BENEFITS

- Convenient, mobile application of superabsorbent polymer
- Easy to use, targeted placement of hydrogel solution or powder near the roots
- Cost-effective retention of applied water and nutrients
- Less plant stress under dry condition
- Aeration of compact soil
- Long-lasting treatment effects
- Increased yields
- Overall cost savings



## AIM OPERATION

The AIM unit is designed to travel along the rows of groves, orchards, and vineyards. It stops at each plant (on each side of the unit), and the outriggers are extended from either side of the AIM unit. Lances on each outrigger pneumatically penetrate the soil near the drip line of the plants. Once the lances have penetrated the soil approximately 3 feet in depth, air is forced through the lances to fracture the surrounding soil. AQUASORB is injected through the lances and into the underground fractures. Air is again sent down to purge the lines before the lances and outriggers are retracted. The AIM unit then moves to the next set of plants to repeat the process until the desired number of plants or acreage is treated.



## AIM PERFORMANCE

The AIM unit is offered with either liquid solution or dry powder injection options to suit the needs of customers based on acreage to be treated, type of crop, soil composition, and handling preference. Either AIM unit is designed to inject approximately 1 pound of dry AQUASORB polymer per plant.

### AIM Liquid Solution Injection Unit

The AIM unit with solution injection capabilities has a tank capacity of 1,000 gallons and will inject approximately 7 gallons of polymer solution at the base of each plant. This unit can treat approximately 3 acres per day. Liquid flow is powered by the hydraulics and power take-off functions of the tractor.

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