

Brewing and Aeration Equipment Required

One option of aeration is compressed oxygen. This is generally used when there is no available power. To setup aeration system, secure oxygen tank to a post that is anchored securely into the ground. Attach regulator to tank and tighten to prevent leakage. Set regulator to 1.8 liter per minute. Attach clear flex hose to regulator and tighten with adjustable clamp. Before cutting hose length, be sure to allow enough hose so diffuser (which is attached to the other end) can rest inside on the bottom of the brew tank.

Electrical NOT Available at Irrigation Site

- 1 Brew Tank / 1000 gallon capacity for every 100 acres to be treated
- 1 Compressed Oxygen Tank
- 1 Clear Tubing / Length TBD by distance from diffuser location at bottom of brew tank to location of oxygen tank
- 2 1/2" adjustable hose clamps
- 1 Regulator
- 1 Diffuser
- 1 Mazzei Injector / size TBD pending local setup. Placement is in-line after filtration of irrigation water. (diagram below)
- TBD 1" Flex Hose / enough for two and one-half lengths from tank to irrigation system
- 4 1" Banjo valves with quick release
- 2 Male and female camlock quick release connectors
- 1 1" x 8' Schedule 40 PVC (pending setup distances)
- 2 1" Schedule 40 PVC 90° Slip to Slip Connectors

Electrical Available at Irrigation Site

- 1 Brew Tank / 1000 gallon capacity for every 100 acres to be treated
- 1 AC Pump / with stand, starter and wire conduit
- 1 Sump Pump (3/4 hp) with Mazzei setup for tank aeration.
- TBD Tubing and connectors
- TBD 1" Flex Hose / enough for two and one-half lengths from tank to irrigation system
- 4 1" Banjo valves with quick release
- 2 Male and female camlock quick release connectors
- 1 1" x 8' Schedule 40 PVC (pending setup distances)
- 2 1" Schedule 40 PVC 90° Slip to Slip Connectors

Mechanical Aeration Setup

Screw mazzei injector into the discharge of the sump, and connect air hose to the barbed fitting. Submerge the sump pump into the bottom of the tank and run air hose out the top of the tank. The sump pump will create a differential pressure and draw air down through the air hose, releasing oxygen into the mixed water flow. The diagram below exhibits how to educt the material from the brew tank to an irrigation system.

