



Aeration System Instructions

This system includes:

- Aeration pump
- Sanitary air filter
- Oxygen stone
- Tubing



Why aerate? — Oxygen helps the yeast build sterol reserves for the upcoming fermentation and helps build strong cell walls. Yeast has two methods of making energy. One is very efficient (aerobic) and converts maltose and oxygen to water, carbon dioxide and new yeast cells. The other is not as efficient (anaerobic) and converts maltose to alcohol and carbon dioxide. First we need lots of healthy cells, then we need them to efficiently make alcohol.

Why would I use air instead of oxygen? — Air is cheap, and oxygen needs a cylinder that needs to be replaced or refilled over time. Since you are using the oxygen in the air, you will need to aerate for a much longer time than you would by using pure oxygen from a tank.

Why should I use a sterile filter? — Air has the potential of harboring wort-spoiling organisms, and the sterile filter is able to filter all living organisms (99.98%) from the air. It helps eliminate wild yeast contamination as well as other airborne wort spoilers.

How do I maintain my air stone? — The most important thing to be aware of is not damaging the pores. Do not scrub the surface. Even the oil from your hands can clog the pores and impede airflow. To clean your stone you can boil it, push cleaners through it or soak it. To sanitize it we recommend you boil it.

How long will my filter last? — Your filter will last until it either clogs or becomes contaminated, usually in about a year. If you notice a growth on the filter media discard the filter. Do not get the filter wet on the inside, so use caution when sanitizing. Also take care to only blow air through one side of the filter, and always use that same side.

How do I use my system?

1. Cool your wort and put it in the fermenter as usual.
2. Sanitize the stone and tube. Do not get the filter wet.
3. Insert the stone down to the bottom to the fermenter.
4. Plug in your air pump.
5. You need a total time of aeration of about 30 to 120 minutes. We use 45 minutes for normal gravity worts (more for high gravity worts). You will need to shut off your pump if foaming becomes excessive. Wait for a few minutes then start again.
6. Remove your aeration system and install an airlock.
7. Clean and sanitize your aeration system and store in a clean dry location.