



# Oxygenation System Instructions

## **This system includes:**

- Oxygen regulator
- Sanitary air filter
- Oxygen stone
- Tubing

## **You will also need:**

- Small disposable oxygen tank, from the hardware store.



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***Why Oxygen?*** - Oxygen helps the yeast build strong cell walls, among other things. 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 should I use a sterile filter?*** - Just in case. Even though the oxygen is pure, we just want to make extra certain that what you are putting in your wort is free of any sort of airborne microbes. The Fermentap Sterile Filter is able to filter all living organisms (99.98%) from air or water.

***How do I maintain my air stone?*** - The most important thing to be aware of is not damaging the tiny pores in the stone. The oil from your hands can clog the pores and impede airflow, so avoid touching it with your bare hands. Do not scrub the stone. To clean your stone you can boil it, push cleaners through it or soak it. To sanitize it you can soak it in Star San for 1 min, or boil it for 15 min.

***How long will my filter last?*** - Your filter will last until it becomes contaminated, generally after a year of use. You will be able to tell if your filter is clogged by the arrival of tiny black spots on the filter media. Once you see this, discard the filter and replace it with a new one

## ***How do I use my system?***

1. Cool your wort and put it in the fermenter as usual.
2. Sanitize the stone and tube.
3. Insert the stone down to the bottom to the fermenter.
4. Turn the black knob on top of the regulator until you see bubbles coming from the stone.
5. You need a total time of aeration of about 1 to 2 minutes, depending on the gravity of your wort. You will need to shut off your system 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.