

Blichmann Engineering 8541956435

Blichmann Engineering Premium In-Line Oxygenation Kit Instruction Manual

1. PRODUCT OVERVIEW

The Blichmann Engineering Premium In-Line Oxygenation Kit is designed to efficiently dissolve oxygen directly into your wort. This process is crucial for promoting healthy yeast activity and ensuring vigorous fermentation in homebrewing. The kit features a high-quality oxygen regulator that connects to a commercial, welding-style oxygen tank.



Image: The Blichmann Engineering Premium In-Line Oxygenation Kit, showing the oxygen regulator, stainless steel diffusion stone, and QuickConnectors. This image illustrates the main components of the kit.

2. SAFETY INFORMATION

Please read and understand all safety warnings before operating this equipment. Failure to do so may result in injury or damage to the product.

- Always ensure proper ventilation when working with oxygen tanks.
- Handle oxygen tanks with care to prevent damage or leaks.
- Do not use oil or grease on oxygen regulators or fittings, as this can cause a fire hazard.

- Ensure all connections are secure and leak-free before introducing oxygen.
- Keep out of reach of children.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged upon opening the package:

- Stainless Steel 10 micron diffusion stone
- Two 1/2" QuickConnectors
- High quality O2 regulator
- Custom stainless fitting
- Instruction Manual (this document)

4. SETUP

Follow these steps to set up your Premium In-Line Oxygenation Kit:

1. **Connect Regulator to Oxygen Tank:** Ensure your oxygen tank is a "welding-type" tank. Carefully thread the high-quality O2 regulator onto the tank valve. Hand-tighten first, then use an appropriate wrench to secure it firmly. Do not overtighten.
2. **Attach Diffusion Stone:** Connect the 10 micron stainless steel diffusion stone to the custom stainless fitting. Ensure a snug fit.
3. **Integrate QuickConnectors:** Attach the two 1/2" QuickConnectors to your brewing system's tubing. These will allow for easy in-line integration of the oxygenation kit.
4. **Assemble In-Line:** Connect the diffusion stone assembly between your wort transfer line, typically between your chiller and fermenter. Ensure the wort flows through the QuickConnectors and past the diffusion stone.
5. **Leak Check:** Before introducing oxygen, perform a leak check on all connections using a soapy water solution. Bubbles indicate a leak.

5. OPERATING INSTRUCTIONS

To oxygenate your wort effectively:

1. **Prepare Wort Transfer:** Begin transferring your chilled wort from your chiller to your fermenter, ensuring it flows through the in-line oxygenation kit.
2. **Open Oxygen Tank Valve:** Slowly open the main valve on your oxygen tank.
3. **Adjust Regulator:** Use the regulator knob to set the desired oxygen flow rate. A typical flow rate for wort oxygenation is around 0.5 to 1 liter per minute, but consult your recipe or yeast manufacturer's recommendations.
4. **Monitor Oxygenation:** Allow the oxygen to flow through the diffusion stone as the wort passes. The 10-micron stone will create fine bubbles, maximizing oxygen dissolution.
5. **Close Valves:** Once all wort has been transferred and oxygenated, first close the main valve on the oxygen tank, then bleed any remaining pressure from the regulator before closing the regulator knob.

6. MAINTENANCE

Proper maintenance ensures the longevity and performance of your oxygenation kit:

- **Cleaning the Diffusion Stone:** After each use, immediately clean the stainless steel diffusion stone to prevent wort residue from clogging the pores. Back-flush with hot water, then sanitize. For stubborn clogs, a mild acid solution (like Star San) or boiling may be used.
- **Regulator Care:** Keep the oxygen regulator clean and dry. Store it in a protective case or cover to prevent dust and debris from entering.
- **QuickConnectors:** Disassemble and clean QuickConnectors thoroughly after each use to prevent bacterial growth and ensure proper sealing.
- **Storage:** Store the kit in a clean, dry environment away from direct sunlight and extreme temperatures.

7. TROUBLESHOOTING

If you encounter issues with your oxygenation kit, refer to the following common problems and solutions:

- **No Oxygen Flow:**
 - Check if the oxygen tank valve is fully open.
 - Ensure the regulator knob is turned to an open position.
 - Verify the oxygen tank has sufficient gas pressure.
 - Inspect the diffusion stone for clogs; clean if necessary.
- **Poor Oxygenation (Large Bubbles):**
 - The diffusion stone may be partially clogged. Clean thoroughly.
 - Ensure adequate wort flow rate through the system.
 - Increase oxygen flow rate slightly, if appropriate for your recipe.
- **Leaks at Connections:**
 - Tighten all connections, ensuring they are secure but not overtightened.
 - Check O-rings and gaskets for damage or improper seating; replace if necessary.

8. SPECIFICATIONS

Feature	Detail
Model Number	8541956435
ASIN	B07JNJVMSW
Diffusion Stone	10 micron Stainless Steel
Connections	Two 1/2" QuickConnectors
Oxygen Tank Compatibility	Commercial, welding-style oxygen tanks
Date First Available	October 23, 2018

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Blichmann Engineering website or contact their customer service directly. Keep your purchase receipt as proof of purchase for any warranty claims.

Website: www.blichmannengineering.com

Customer Service: Refer to the website for contact details.