Roving Blue® OZO-Pod® 50 and 1000

Operations Manual 4.25
Copyright 2021. Roving Blue® Inc. All rights reserved.

Important Notice

These units are not intended for retail sale to the general public. They are for use by professional engineers or laboratory personnel with knowledge of ozone and electrical connections.

Warning & Safety Information

BEFORE YOU USE THE OZO-POD®, READ, FOLLOW, AND SAVE THESE INSTRUCTIONS. THERE ARE NO USER-SERVICEABLE PARTS. EXPOSING PARTS IN THE OZO-POD® WILL VOID YOUR WARRANTY. INTERNAL PARTS SHOULD NOT BE TAMPERED WITH.

Roving Blue® Inc. Contact Information

5220 St. Patricks Road,
Lena, Wisconsin USA 54139
Tel: (855) 4-WATER-5 (855-492-8375)
Email: info@rovingblue.com
Web: www.rovingblue.com
EPA Est. 094576-TWM-001

Introduction

This manual was written to assist in the operation and maintenance of your unit. Please read it carefully and in its entirety before use.

Caution

The Roving Blue® OZO-Pods® are designed for use with tap water of unknown safety. It may be used with fresh surface waters or collected rainwater; however, water that is visibly degraded, cloudy, or contains silt should be pre-filtered before use to ensure effective ozone treatment.

Examine the water carefully. If there is cloudiness present, it may indicate high bacteria levels. While ozone is highly effective at killing bacteria, the OZO-Pods® may not generate enough ozone to treat very high levels of contamination.

Before Use

The Roving Blue® OZO-Pods® are designed to ensure safe drinking water from tap or other clear water sources such as rainwater or clear streams. **Do not use for any other purpose**. Note: If the water is very dirty or contains silt, it should be collected in a receptacle (such as a jerry can or barrel) and allowed to settle before use, preferably overnight. A pre-filter should also be used to ensure clear, clean water.

Product Overview

Roving Blue® OZO-Pods® make water safe to drink by using dissolved ozone as a sanitation agent. Ozone (O3) is the most powerful oxidizer available that can be safely used in water treatment. Ozone is a strong oxidant and widely recognized as a biocide with more than 99.9% pathogen kill rates.

FDA Approval and Uses

In 1997, the FDA approved ozone as an antimicrobial agent with indirect contact with food. In 2002, it was approved for use on food contact areas and directly on food under the "Generally Regarded as Safe" (GRAS) designation.
The Organic Foods Production Act (OFPA) also identifies aqueous ozone (ozone dissolved in water) as a substance allowed for use in organic crop and livestock production.

Effectiveness of Ozone

Ozone is effective in various drinking water applications, including:
- Disinfection
- Iron (Fe) and manganese (Mn) reduction
- Hydrogen sulfide removal
- Taste and odor reduction

Product Registration & Warranty Information

For product registration and warranty information, please visit www.RovingBlue.com/help/warranty or contact your local reseller. If you purchased the unit directly from Roving Blue, no registration is necessary.

Operating Instructions

1. Ensure the unit power switch is in the OFF position.
2. Plug the cord into a GFCI-protected outlet (kitchen or bathroom).
3. Fill a sink, bowl, or tank with the desired amount of water you want to treat.
4. Position the OZO-Pod® at the bottom of the tank.

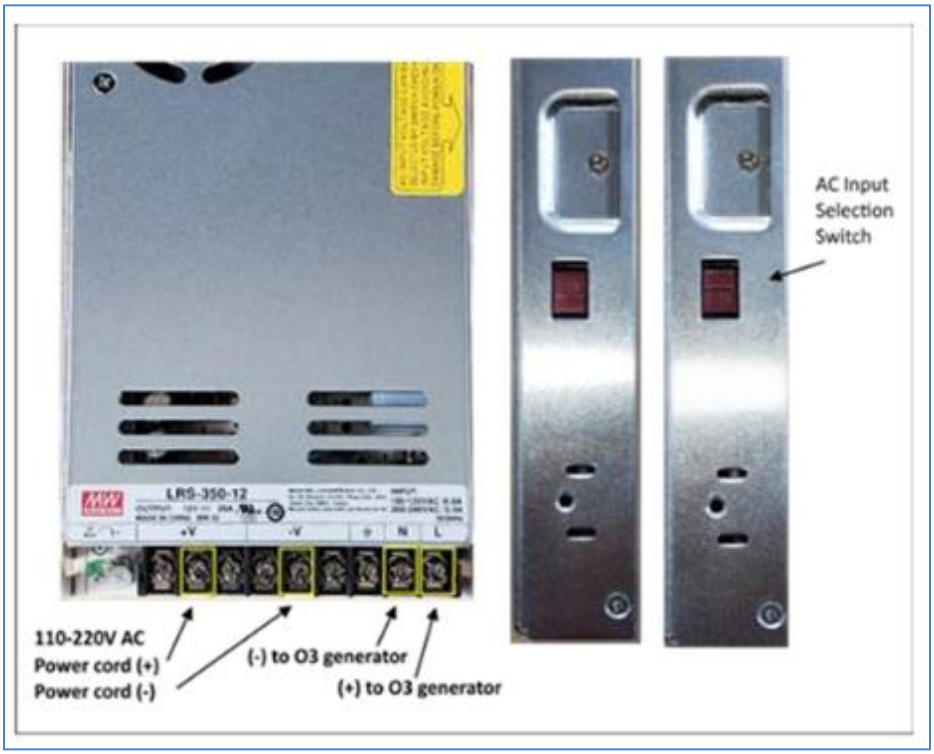
Ozone generation factors include:
- Tank size
- Tank shape
- pH of water
- Temperature of water
- Conductivity of the water

For proper ozone levels, use the 'one liter, one minute, one part per million' guideline. An ozone test kit (not provided) can verify ozone levels, but the 'smell test' works well. Ozone has a sharp smell similar to chlorine. When you smell it, ozone levels are sufficient.

5. Once powered on, the OZO-Pod® will emit ozone in tiny bubbles throughout the water. The ozone smell will be noticeable, similar to the smell in the air after a thunderstorm.
6. Run until the desired ozone levels are reached. Wait 5 minutes for the ozone to 'contact' and eliminate microorganisms.

For OZO-Pod® 1000

1. Set the power converter:
   - Use a screwdriver to adjust the switch between 115V AC and 230V AC.
   2. Attach the power supply lines as shown in the diagram.



Water tanks should use a pump to circulate the water, ensuring even ozone distribution from bottom to top for maximum disinfection.

Unit Lifetime

The OZO-Pods® have a lifetime between 500 and 1,000 hours. Using a timer to run the unit once or twice a day will extend its life significantly compared to continuous use.

Shut Down Procedures

1. Remove the OZO-Pod® from the water.
2. Allow the unit to air dry.
3. Store in a clean, dry place.

Care & Caution

This unit is designed for safe operation when used as directed. It is not intended for use by children. Never disassemble a Roving Blue® OZO-Pod® unit. Tampering with any components can lead to injury or damage and will void your warranty.

Ongoing Care & Cleaning

When not in use, store the OZO-Pod® in a clean, dry, non-abrasive area or container. The units should not be exposed to temperatures above 140°F (60°C) or below -4°F (-20°C).

Maintenance of Electrodes:

Tap water often contains minerals like calcium carbonate, which can accumulate on the electrodes and slow the electrolysis process. When ozone generation appears weak, clean the electrodes using a dilute acid solution (such as vinegar, citric acid, or CLR).

- Prepare a solution of water and vinegar at a 1:1 ratio (or 10:1 with citric acid or CLR).
- Dip the ozone electrode into the solution for 10 minutes (do not apply power).
- Rinse the electrode well ith tap water. After cleaning, normal ozone production will resume.