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## Sugar Valley TA113

# Sugar Valley TA113 Oxilife OX1 Water Care System User Manual

Model: TA113

Brand: Sugar Valley

## 1. INTRODUCTION

The Sugar Valley TA113 Oxilife OX1 Water Care System is an advanced solution designed for efficient and effective water disinfection, primarily for pools. This system utilizes an innovative principle based on the cleavage of hydrogen (H) and oxygen (O) atoms within water molecules (H<sub>2</sub>O) to produce highly effective active disinfecting ingredients, which are stronger than traditional chlorine.

The Oxilife system generates hydroxyl radicals (OH), ozone, oxygen, and hydrogen peroxide through the action of electricity on water with a minimum conductivity of 500 mS. For optimal operation and to ensure a residual disinfecting content in the pool, only a small amount of salt (sodium chloride) is required, typically 1 to 1.5 grams per liter of water. The system is capable of operating with salt concentrations ranging from 1.5 to 100 grams of NaCl per liter.

This manual provides essential information for the proper installation, operation, maintenance, and troubleshooting of your Oxilife OX1 Water Care System to ensure its longevity and optimal performance.

## 2. IMPORTANT SAFETY INFORMATION

Please read all safety instructions carefully before installing or operating the Oxilife OX1 system. Failure to follow these instructions may result in property damage, serious injury, or death.

- **Electrical Safety:** All electrical connections must be performed by a qualified electrician and comply with local and national electrical codes. Ensure the power supply is disconnected before performing any installation or maintenance.
- **Water Chemistry:** Always maintain proper water chemistry as recommended by pool professionals. Incorrect water balance can affect system performance and pool integrity.
- **Chemical Handling:** Although the system reduces the need for harsh chemicals, always handle any pool chemicals with care, following manufacturer's instructions and wearing appropriate personal protective equipment.
- **Children and Pets:** Keep the system and its components out of reach of children and pets.
- **Ventilation:** Ensure adequate ventilation around the control unit to prevent overheating.
- **Intended Use:** Use this product only for its intended purpose as described in this manual. Any modifications or improper use will void the warranty and may cause damage.

### 3. PRODUCT OVERVIEW

The Oxilife OX1 Water Care System consists of a main control unit and a specialized electrolysis cell/sensor unit. The control unit manages the disinfection process and displays key water parameters, while the cell unit is responsible for generating the active disinfecting agents.



Figure 3.1: Sugar Valley TA113 Oxilife OX1 Water Care System. The image displays the main green control unit on the right, featuring a digital display that shows numerical values (e.g., 22, 7.4, 750, 6500) and a set of directional buttons. To the left and in front of the control unit is the electrolysis cell, which is black with clear sections, and has green end caps. The word 'oxilife' is visible on the front of the control unit.

### 4. PACKAGE CONTENTS

Please verify that all items are present and undamaged upon opening the package. If any items are missing or damaged, contact your supplier immediately.

- Oxilife OX1 Main Control Unit
- Electrolysis Cell / Sensor Unit
- Mounting Hardware (screws, anchors)
- Power Cable
- Connection Cables for Cell/Sensor
- User Manual (this document)

### 5. INSTALLATION AND SETUP

Proper installation is crucial for the safe and effective operation of your Oxilife system. It is recommended that installation be performed by a qualified professional.

1. **Choose a Location:** Select a dry, well-ventilated area, away from direct sunlight and extreme temperatures. The location should be easily accessible for maintenance and within reach of the pool's filtration system plumbing.
2. **Mount the Control Unit:** Securely mount the main control unit to a vertical surface using the provided mounting hardware. Ensure it is level and stable.
3. **Install the Electrolysis Cell:** The electrolysis cell must be installed in the pool's return line, after the filter and heater (if applicable), and before any chemical injectors. Ensure proper water flow direction through the cell as indicated by arrows on the unit. Use appropriate plumbing fittings to connect the cell.

4. **Connect Cables:** Connect the electrolysis cell to the main control unit using the provided cables. Ensure all connections are secure and watertight. Connect the power cable to the main control unit. *Do not plug into a power outlet yet.*
5. **Add Salt to Pool Water:** Calculate the required amount of salt (NaCl) to achieve a concentration of 1 to 1.5 grams per liter (g/L) of pool water. Distribute the salt evenly across the pool surface and allow it to dissolve completely before starting the system. Run the pool pump to aid dissolution.
6. **Electrical Connection:** Once all physical connections are made and verified, plug the power cable into a grounded electrical outlet. The system will power on.
7. **Initial System Check:** Follow the on-screen prompts or refer to the control unit's specific instructions for initial calibration or setup. Verify that the system detects the cell and displays initial water parameters.

## 6. OPERATING INSTRUCTIONS

The Oxilife OX1 system is designed for automated operation once properly set up. The control unit continuously monitors water parameters and adjusts the disinfection output as needed.

### 6.1. Control Panel and Display

The main control unit features a digital display and navigation buttons. The display typically shows:

- **Temperature:** Current water temperature.
- **pH Level:** The acidity or alkalinity of the water.
- **ORP (Oxidation-Reduction Potential):** A measure of the water's sanitizing effectiveness.
- **Conductivity/Salt Level:** Indicates the concentration of dissolved salts in the water, crucial for the electrolysis process.

Use the directional buttons (up, down, left, right, enter) to navigate through menus, view detailed information, and adjust settings such as desired ORP levels or operating modes. Refer to the specific on-screen menu guide for detailed navigation.

### 6.2. Disinfection Process

The system automatically activates the electrolysis cell when disinfection is required based on the programmed settings and real-time water parameter readings. The electrolysis process converts the dissolved salt and water into powerful disinfecting agents. These agents then revert back to salt and water after they have sanitized the pool, creating a continuous and efficient cycle.

Ensure the pool pump is running during the system's operation to allow for proper water circulation through the electrolysis cell.

## 7. MAINTENANCE

Regular maintenance ensures the longevity and efficiency of your Oxilife OX1 system.

- **Cell Cleaning:** Periodically inspect the electrolysis cell for scale buildup. If scale is present, clean the cell according to the manufacturer's instructions, typically using a mild acid solution. Frequency depends on water hardness.
- **Sensor Calibration:** Calibrate pH and ORP sensors regularly (e.g., monthly or as recommended) using appropriate calibration solutions to ensure accurate readings.
- **Salt Level Check:** Monitor the salt concentration in your pool water regularly. The system's display will indicate the current level. Add salt as needed to maintain the recommended 1 to 1.5 g/L.
- **Winterization:** If you close your pool for winter, follow proper winterization procedures for the Oxilife system, which typically involves draining the cell and storing the control unit in a dry, protected area. Consult your pool professional

for specific instructions.

- **General Inspection:** Annually inspect all cables and connections for wear or damage. Ensure the control unit's ventilation openings are clear.

## 8. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your Oxilife OX1 system. For problems not listed here, contact customer support.

Problem	Possible Cause	Solution
System not powering on	No power to outlet; tripped breaker; faulty power cable.	Check power outlet and breaker. Inspect power cable for damage.
Low disinfection output / Low ORP reading	Low salt level; dirty electrolysis cell; faulty cell; insufficient pump run time.	Check and adjust salt level. Clean the electrolysis cell. Ensure pool pump runs adequately. Contact support if cell is faulty.
Inaccurate pH/ORP readings	Sensors need calibration; dirty sensors; faulty sensors.	Calibrate sensors using fresh calibration solutions. Clean sensors. Replace if faulty.
Error message on display	Specific system fault.	Note the error code and consult the detailed troubleshooting section in the full manual (if available) or contact customer support with the code.

## 9. TECHNICAL SPECIFICATIONS

Feature	Value
Brand	Sugar Valley
Model Number	TA113
ASIN	B010SAWH52
Product Dimensions	0.1 x 35 x 0.1 cm; 100 g
Manufacturer	Sugar Valley
Required Salt Concentration	1 to 1.5 g NaCl/L (operates from 1.5 to 100 g NaCl/L)
Minimum Water Conductivity	500 mS
Disinfection Method	Electrolysis (generates OH, ozone, oxygen, hydrogen peroxide)

## 10. WARRANTY AND CUSTOMER SUPPORT

The Sugar Valley TA113 Oxilife OX1 Water Care System comes with a manufacturer's warranty. Please refer to the warranty card included with your product for specific terms, conditions, and duration. Keep your proof of purchase for warranty claims.

For technical assistance, troubleshooting beyond this manual, spare parts, or warranty inquiries, please contact your authorized Sugar Valley dealer or customer support. Contact information can typically be found on the manufacturer's

website or your purchase documentation.