



# Opti-Stor II

9E-1156

## Operation Instructions

## PREFACE

These instructions are supplied with the product. They should be kept close at hand and remain with the equipment even if the equipment is sold. These instructions aim to aid those responsible (outlined under "Responsibilities") for installing, operating, maintaining, troubleshooting, and servicing this product. This manual is not covered by an amendment service. The current version can be obtained through your technical dealer or directly from BouMatic. We reserve the right to make changes of the data and illustrations in this manual due to technical developments. Reproduction, translation or copying in any form, including extracts, requires written authorization from BouMatic.

## Instructional Content and Purpose

These instructions aim to aid those responsible (outlined under "Responsibilities") for installing, operating, maintaining, troubleshooting, and servicing this product.

## CUSTOMER SERVICE

If necessary, please contact your nearest authorized dealer.

## GUIDELINES, LAWS, STANDARDS

During the design and construction of this product, the contents and information from the following guidelines and specifications were followed:

2006/42/EC Machinery Directive 2006/95/EC Low Voltage Directive 2014/30/EU EMC Directive

EN 61000-6-2 Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments

EN 61000-6-4 Electromagnetic compatibility (EMC) -- Part 6-4: Generic standards - Emission standard for industrial environments

EN 60335-2-70/A1 Household and similar electrical appliances - Safety - Part 2-70: Particular requirements for milking machines

EN 13849-1 Safety of machinery - Safety-related parts of control systems - Part 1: General principles for design

EN 13849-2 Safety of machinery - Safety-related parts of control systems - Part 2: Validation

EN 60204-1 Safety of machinery - Electrical equipment of machines - Part 1: General requirements EN 60335-1 Household and similar electrical appliances - Safety - Part 1: General requirements

EN 12100 Safety of machinery - General principles for design - Risk assessment and risk reduction

## Responsibilities

Procedures in these instructions are to be performed according to applicable codes (state, local, and other) by the person(s) qualified (licensed, if applicable) to do so—that is:

- Welding must be done by a qualified welder;
- AC power wiring for voltages over 40V (50V in Europe) must be done by a qualified (licensed) electrician in compliance with the latest edition of the ANSI/NFPA Standard 70, National Electrical Code, (USA) or either LVD 2006/95/EC or EMC 2004/108/EC (Europe) and in compliance with the local wiring codes as applicable;
- Other installation, major maintenance, and service work must be done by an authorized BouMatic dealer;
- Product/system checkout and troubleshooting steps are to be performed by an authorized BouMatic dealer;
- Deviation from these instructions could affect product performance or create a hazardous situation. Under no circumstances will BouMatic be responsible for any problems caused in whole or in part by and deviation from the procedures specified in these instructions without prior written approval from BouMatic;
- Operation steps may be performed by the owner/operator after the dealer or technician has successfully finished the product/system checkout. The owner/operator is responsible for properly operating, maintaining, and monitoring the product/system to ensure that it works properly.

Close compliance with the procedures herein is essential for the owner to get maximum benefit from the product/system.

## Disclaimers

No warranties are contained in these instructions. The division of responsibilities, stated above, is a general reminder of those provisions in the applicable dealer contract and does not change any agreement between BouMatic and the dealer. Information in these instructions is not all-inclusive and cannot cover all unique situations.

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## 1. OPERATION

1. Close the cold water supply.
2. Open the hot water faucet to admit air to the tank.
3. Attach a garden hose to the drain valve and direct the water to a floor drain.

## 2. EMERGENCY INSTRUCTIONS

If the Opti-Stor II is damaged by fire, flood, or other circumstances, DO NOT operate it until a qualified service person has checked it out thoroughly.



### CAUTION/AVERTIR

Hydrogen gas can be produced in a hot water system served by this heater that has not been used for a long period of time (generally two weeks or more). Hydrogen gas is extremely flammable. To reduce the risk of injury under these conditions, it is recommended that the hot water faucet be opened for several minutes at the kitchen sink before using any electrical appliance connected to the hot water system. If hydrogen is present, there will probably be an unusual sound such as air escaping through the pipe as the water begins to flow. There should be no smoking or open flame near the faucet at the time it is open.

## 3. MAINTENANCE

### 3.1. CHECK FOR WATER LEAKS

All plumbing connections should be checked periodically for water leakage. If water is leaking from any connection near the Opti-Stor II. Corrosion could damage the heat exchanger of the storage barrel itself.

### 3.2. CHECK FOR CORROSION

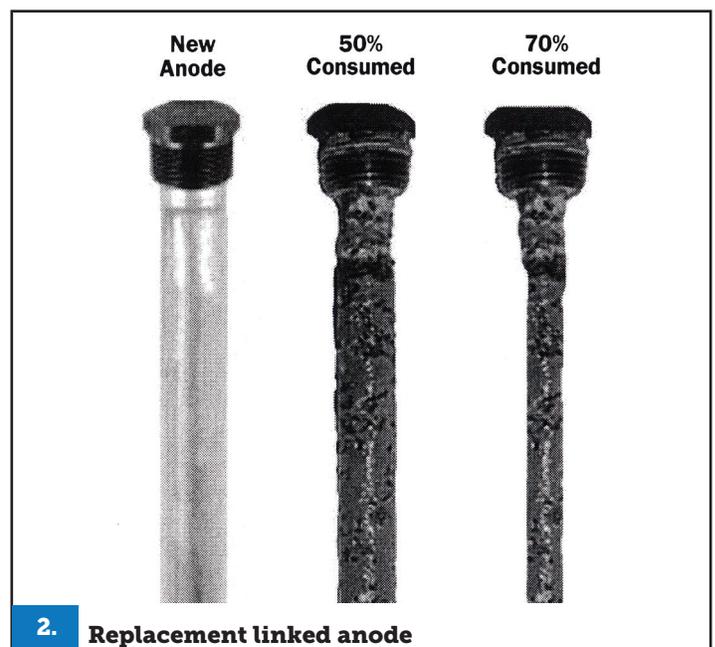
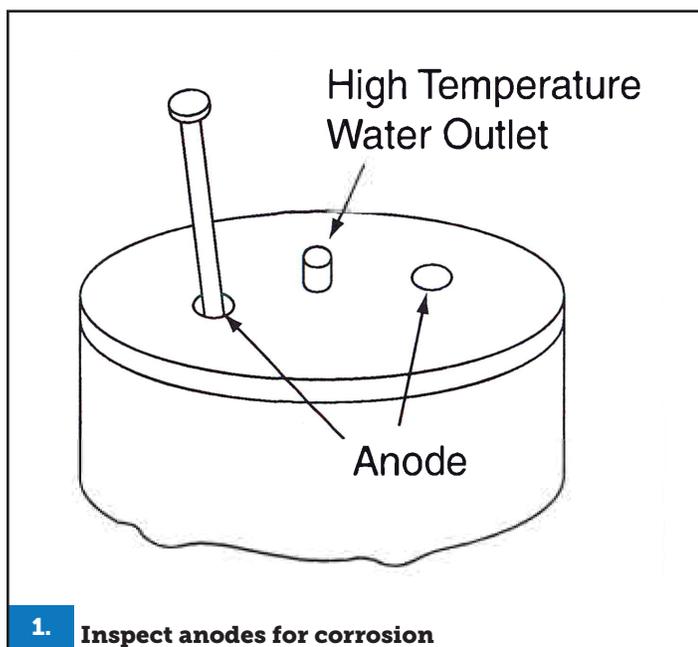
Every two years the anodes in the Opti-Stor II should be checked for corrosion. In areas having aggressive water, the anodes will be sacrificed instead of the barrel corroding. Should an anode be totally consumed by aggressive water, the glass lining will be affected and eventually the barrel itself could corrode. By replacing an anode when it is 70% sacrificed, the barrel life can be extended dramatically.

### IMPORTANT

Failure to maintain the anodes (magnesium rods) may result in damage to the barrel and will void the warranty.

### 3.3. REMOVAL OF ANODES

1. Shut off the cold water supply.
2. Relieve the water pressure.
3. Loosen the anodes using a 1-1/16 in. socket.
4. Remove the anodes and inspect them for corrosion. See **Figure 1**. An anode that is 70% sacrificed should be replaced. See **Figure 2**.
5. Re-install or replace anodes.
6. If there is insufficient room above the unit to replace an anode, order the linked anode. See **Figure 2**.
7. Tighten the anodes and open the cold water supply.
8. Check for leaks.



### **3.4. FREEZING TEMPERATURES**

Caution should be exercised to prevent the water in the barrel from freezing which can cause permanent damage.

### **3.5. CHECK FOR FOREIGN MATTER**

If foreign matter (sand, etc.) is in the water system it could trap in the Opti-Stor II. Should this occur, the 1-1/4 in. cold water supply line drain cock can be utilized for flushing, considering one was provided during installation. Omission of a drain cock makes it necessary to disconnect the inlet piping.



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