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› OASE BioSmart 10000 Pond Filter User Manual

OASE BioSmart 10000

OASE BioSmart 10000 Pond Filter User Manual

1. INTRODUCTION

The OASE BioSmart 10000 is an advanced flow-through filter designed for efficient biological and mechanical pond filtration. This system ensures maximum oxygenation and promotes a healthy aquatic environment for ponds up to 10,000 gallons (without fish). Its innovative design includes distinct filter zones for beneficial bacteria and a convenient sludge drain for easy removal of coarse debris, minimizing maintenance efforts.

2. SAFETY INSTRUCTIONS

Please read this manual thoroughly before installation and operation. Failure to follow these instructions may result in injury or damage to the product. Keep this manual for future reference.

- Always disconnect the power supply to all pond equipment before performing any maintenance or cleaning.
- Ensure all electrical connections are waterproof and comply with local regulations.
- Do not operate the filter if any part is damaged. Contact OASE support for replacement parts.
- Keep children and pets away from the pond and filtration system during operation and maintenance.
- The filter is designed for outdoor pond use only.

3. PACKAGE CONTENTS

Verify that all components are present before beginning installation:

- OASE BioSmart 10000 Pond Filter Unit
- Filter Foams (9 total: 4x Red, 4x Blue, 1x Green)
- Instruction Manual

4. SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance of your BioSmart filter. This filter operates on a gravity-fed principle, meaning the water flows out of the filter by gravity back into the pond. Therefore, the filter must be positioned higher than the water level of the pond.

4.1 Placement

Place the filter on a stable, level surface next to your pond. Ensure it is elevated so that the water returning from the filter can flow freely back into the pond via gravity. Consider accessibility for future maintenance.

4.2 Connecting the Pump and Hoses

1. Connect your pond pump (recommended capacity 1600-3000 GPH) to the filter's intake connections. The filter features two 1 1/2 inch threaded female intake connections.
2. Attach the return hose to the filter's outlet. Ensure a downward slope from the filter to the pond for gravity flow.
3. Connect a hose to the sludge drain. This drain is used for periodic cleaning and should be directed to a suitable waste area or garden bed for natural fertilization.
4. Secure all hose connections with appropriate clamps to prevent leaks. Flexible PVC couplings may be beneficial for a tight, leak-free seal, especially for the output and sludge drain connections.



Figure 1: Typical installation diagram of the OASE BioSmart filter system, showing the pump drawing water from the pond, through the filter, and returning clean water via gravity. The filter is positioned above the pond's water level.

5. OPERATION

5.1 Initial Startup

1. Once all connections are secure and the filter is properly positioned, ensure the sludge drain is closed.
2. Plug in your pond pump. Water will begin to flow into the BioSmart filter.
3. Allow the filter to fill with water and begin returning filtered water to the pond. It may take some time for the water to become clear, especially in a new or heavily soiled pond.

5.2 Monitoring

The BioSmart filter is equipped with features to help you monitor its performance:

- **Cleaning Indicator:** A visual indicator on the filter will signal when the filter foams require cleaning.
- **Water Temperature Display:** A built-in thermometer allows you to monitor the pond water temperature, which is important for fish health and biological activity.

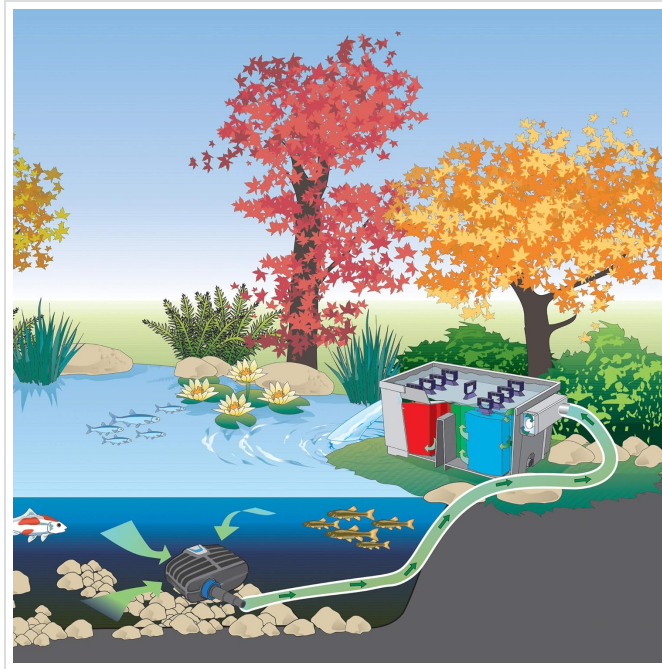


Figure 2: The integrated water temperature display on the OASE BioSmart filter, providing a quick reference for pond conditions.



Figure 3: Clean, oxygenated water being returned to the pond after passing through the BioSmart filter, illustrating effective filtration.

6. MAINTENANCE

The BioSmart filter is designed for minimal maintenance, with features that simplify the cleaning process.

6.1 Sludge Drain Cleaning

The sludge drain allows for easy removal of coarse debris without disassembling the filter. When the cleaning indicator signals or you observe reduced flow, perform the following:

1. Ensure the pump is still running.
2. Open the sludge drain valve. Coarse debris and dirty water will be flushed out.
3. Allow the water to drain until it runs clear, then close the valve.



Figure 4: The sludge drain in action, showing dirty water being expelled from the filter, which helps remove accumulated coarse debris.

6.2 Filter Foam Cleaning

The filter foams can be cleaned without removal or manual unclogging. The integrated cleaning mechanism allows you to squeeze the foams:

1. With the pump running and the sludge drain open, use the handles provided for each filter foam.
2. Gently pull up and push down on the handles to squeeze the filter foams. This action dislodges trapped debris, which is then flushed out through the open sludge drain.
3. Repeat for all filter foams until the water running from the sludge drain is clear.
4. Close the sludge drain.



Figure 5: A filter foam handle, used to easily clean the filter sponges without removing them from the unit.

7. TROUBLESHOOTING

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

- **Problem: Water is not clear.**

Solution: Check if the pump is operating correctly and providing sufficient flow. Ensure filter foams are clean (perform a cleaning cycle). Verify that the filter is appropriately sized for your pond (up to 10,000 gallons without fish). If using a UV Clarifier, ensure its bulb is functional and clean.

- **Problem: Leaks from connections.**

Solution: Ensure all hose clamps are tightened securely. Inspect hoses and connections for damage. Consider using flexible PVC couplings for a more robust seal, especially at the output and sludge drain.

- **Problem: Reduced water flow.**

Solution: The filter foams may be clogged; perform a cleaning cycle using the sludge drain and foam handles. Check the pond pump for blockages or reduced performance. Ensure hoses are not kinked.

For persistent issues, contact OASE customer support.

8. SPECIFICATIONS

Model	BioSmart 10000
Effective Pond Size (without fish)	Up to 10,000 gallons
Recommended Pump Capacity	1600 gph (min) to 3000 gph (max)
Max. Flow Rate	3600 GPH
Filter Foams	9 (4x Red, 4x Blue, 1x Green)
Intake Connection	1 1/2 in. threaded female (2 x)
Item Weight	31.57 Pounds
Manufacturer Part Number	032202
UPC / GTIN	706759569309

9. WARRANTY AND SUPPORT

9.1 Limited Warranty

The OASE BioSmart 10000 Pond Filter comes with a **3-year limited warranty**. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

For maximum effect and to qualify for the OASE Water Guarantee, this filter can be combined with Vitronic 18 - 36 Watt UV Clarifiers and AquaMax Eco Classic 1200-2700 or AquaMax Eco Premium 2000-3000 pumps.

9.2 Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please visit the official OASE website or contact their customer support directly. Always have your model number and purchase date available when contacting support.