Aqua Medic Easy Line 190

Aqua Medic Easy Line 190 Reverse Osmosis System User Manual

Model: Easy Line 190

1. Introduction

The Aqua Medic Easy Line 190 is a compact and powerful reverse osmosis system designed to produce soft and salt-free water. This system is ideal for various applications, including marine and freshwater aquariums, terrarium misting, and other uses requiring high-quality purified water.

With a daily output of approximately 190 liters, the Easy Line 190 meets stringent water quality requirements. It features a fine filter to remove particles larger than 5 µm and an activated carbon prefilter to eliminate chlorine, protecting the sensitive membrane. The core of the system is its TFC (polyamide/polysulfone) membrane, which ensures a salt retention rate of up to 98% and operates with an efficient pure water to wastewater ratio of approximately 1:3-4.

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Aqua Medic Easy Line 190 reverse osmosis system.

2. Safety Instructions

- Read all instructions carefully before installation and operation.
- Ensure the system is installed in a location protected from freezing temperatures and direct sunlight.
- Do not operate the system with water pressure exceeding the manufacturer's recommendations.
- Regularly check all connections for leaks.
- Only use genuine Aqua Medic replacement parts for filters and membranes to ensure optimal performance and safety.
- Keep the system out of reach of children and pets.
- Disconnect the system from the water supply before performing any maintenance.

3. Product Overview

The Aqua Medic Easy Line 190 system consists of several key components working in sequence to purify water.



Figure 1: Aqua Medic Easy Line 190 Reverse Osmosis System. The image displays the compact unit with three cylindrical filter housings connected by white tubing. From left to right, these are typically the Sediment Prefilter, Activated Carbon Prefilter, and the Membrane Module. Labels visible on the filters indicate "Feinfilter Sediment Prefilter AQUA MEDIC" and "Aktivkohlefilter Activated Carbon Prefilter AQUA MEDIC". A flow restrictor with "FLOW 300 Pat. 177903" is also visible.

Key Components:

- **Sediment Prefilter:** Removes larger particles, dirt, rust, and sand from the incoming water, protecting subsequent filters. (Labeled "Feinfilter Sediment Prefilter")
- **Activated Carbon Prefilter:** Eliminates chlorine, chloramines, and organic contaminants that can damage the delicate RO membrane. (Labeled "Aktivkohlefilter Activated Carbon Prefilter")
- **TFC Membrane Module:** The heart of the system, where water is forced through a semi-permeable membrane, separating pure water from dissolved solids and impurities.
- **Flow Restrictor:** Regulates the flow of wastewater to maintain optimal pressure across the membrane. (Labeled "FLOW 300")
- **Connecting Tubing and Fittings:** Ensures proper water flow between components.

4. Setup

1. **Unpacking:** Carefully remove all components from the packaging. Inspect for any damage.
2. **Placement:** Choose a suitable location for the RO system. It should be near a cold water supply, a drain for wastewater, and a container for purified water. Ensure the system is level and secure.
3. **Water Connection:**
    - Connect the inlet hose (typically marked) to your cold water supply. A standard tap adapter or saddle valve may be required (not included).
    - Ensure all connections are tight to prevent leaks. Do not overtighten plastic fittings.
4. **Drain Connection:** Connect the wastewater hose to a suitable drain. Ensure the hose is securely positioned and will not become dislodged.
5. **Pure Water Outlet:** Position the pure water outlet hose into a clean collection container.
6. **Initial Flushing:** Before first use, it is crucial to flush the system.
    - Turn on the cold water supply slowly.
    - Allow the system to run for at least 30-60 minutes, directing both pure water and wastewater to the drain. This flushes out any manufacturing residues and prepares the membrane.
    - After flushing, the system is ready for use.

5. Operating Instructions

Operating the Aqua Medic Easy Line 190 is straightforward once installed.

1. **Starting Operation:**
    - Ensure all hoses are correctly connected and secured.
    - Open the cold water supply valve.
    - Water will begin to flow through the system. Pure water will exit the designated outlet, and wastewater will go to the drain.
2. **Collecting Pure Water:** Place a clean, appropriate-sized container under the pure water outlet to collect the purified water.
3. **Monitoring Performance:**
    - Periodically check the flow rate of pure water. A significant decrease may indicate clogged prefilters or membrane.
    - Consider using a TDS (Total Dissolved Solids) meter to monitor the quality of the pure water. A rising TDS level indicates membrane degradation or issues.
4. **Stopping Operation:** To stop the system, simply close the cold water supply valve.

6. Maintenance

Regular maintenance is essential to ensure the longevity and optimal performance of your Aqua Medic Easy Line 190 system.

Filter Replacement Schedule:

- **Sediment Prefilter:** Replace every 3-6 months, or sooner if water flow significantly decreases or the filter appears visibly dirty.
- **Activated Carbon Prefilter:** Replace every 3-6 months. This is crucial for protecting the RO membrane from chlorine damage.
- **RO Membrane:** Replace every 1-3 years, depending on water quality and usage. A significant drop in pure

water output or an increase in TDS levels in the purified water indicates it's time for membrane replacement.

Replacement Procedure:

1. **Shut Off Water:** Close the main water supply valve to the RO system.
2. **Depressurize:** Open the pure water outlet to release any remaining pressure.
3. **Remove Old Filters/Membrane:**
    - For prefilters, unscrew the filter housings using the provided wrench (if applicable) or by hand. Remove the old filter cartridges.
    - For the membrane, disconnect the tubing from the membrane housing cap, then unscrew the cap and carefully pull out the old membrane.
4. **Install New Filters/Membrane:**
    - Insert new filter cartridges into their respective housings, ensuring proper orientation. Hand-tighten the housings.
    - Insert the new RO membrane into its housing, ensuring the O-rings are properly seated. Reattach the cap and tubing.
5. **Flush System:** After replacing any component, slowly turn on the water supply and flush the system for at least 30 minutes to remove air and any carbon fines from new prefilters.
6. **Check for Leaks:** Carefully inspect all connections for leaks after reassembly and flushing.

7. Troubleshooting

Problem	Possible Cause	Solution
Low pure water output	Clogged prefilters; Low incoming water pressure; Clogged RO membrane; Low water temperature.	Replace prefilters; Check water supply pressure; Replace RO membrane; Ensure water temperature is within optimal range (typically 25°C).
High TDS in pure water	Damaged or exhausted RO membrane; Incorrect flow restrictor; Bypass valve open (if applicable).	Replace RO membrane; Verify correct flow restrictor is installed; Ensure any bypass valves are closed.
Water leaks	Loose fittings; Damaged O-rings; Cracked housing.	Tighten fittings; Replace O-rings; Replace damaged housing.
No water flow	Water supply off; Severely clogged prefilters; Kinked tubing.	Turn on water supply; Replace prefilters; Straighten tubing.

If you encounter problems not listed here or if the suggested solutions do not resolve the issue, please contact Aqua Medic customer support or your retailer.

8. Technical Specifications

- **Model:** Aqua Medic Easy Line 190
- **Pure Water Output:** Approximately 190 liters per day (at optimal conditions: 25°C, 4 bar pressure)
- **Salt Retention:** Up to 98%
- **Pure Water to Wastewater Ratio:** Approximately 1:3 to 1:4

- **Prefilters:** 5 µm Sediment Filter, Activated Carbon Filter
- **Membrane Type:** TFC (Thin Film Composite) Polyamide/Polysulfone
- **Package Dimensions:** 43 x 35 x 10.5 cm
- **Item Weight:** 2 kg
- **Manufacturer:** Aqua Medic

9. Warranty and Support

Aqua Medic products are manufactured to high-quality standards. For specific warranty information, please refer to the warranty card included with your product or visit the official Aqua Medic website. Warranty terms typically cover manufacturing defects for a specified period from the date of purchase.

For technical support, replacement parts, or further assistance, please contact your authorized Aqua Medic dealer or the Aqua Medic customer service department. When contacting support, please have your product model (Easy Line 190) and purchase details readily available.

Contact Information:

- **Manufacturer:** Aqua Medic
- **Website:** www.aqua-medic.de

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