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## AquaClear A638

# AquaClear Impeller Assembly for 110 Power Filter Instruction Manual

Model: A638

## INTRODUCTION

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This manual provides essential instructions for the proper installation, operation, and maintenance of your AquaClear Impeller Assembly for the 110 Power Filter. The impeller is a critical component responsible for water circulation within your filter system. Regular maintenance and correct installation ensure optimal performance and longevity of your aquarium filtration.

## PRODUCT OVERVIEW

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Image: The AquaClear Impeller Assembly, featuring a green impeller attached to a black motor housing. This component is essential for the operation of the AquaClear 110 Power Filter.

The AquaClear Impeller Assembly (Model A638) is the primary moving part within the AquaClear 110 Power Filter. It draws water through the filter media and returns filtered water to the aquarium. This assembly includes the impeller and its magnetic rotor, designed for efficient and quiet operation.

- **Component:** Replacement Impeller for AquaClear 110 Power Filter.
- **Function:** Drives water circulation for filtration.
- **Material:** Ceramic and plastic construction for durability.

## SETUP AND INSTALLATION

Before installing the new impeller assembly, ensure the AquaClear 110 Power Filter is unplugged from the power source and removed from the aquarium. Prepare a clean work area.

1. **Remove Old Impeller:** Carefully open the motor housing of your AquaClear 110 Power Filter. Locate the existing impeller assembly. Gently pull the old impeller assembly out of its chamber. It may require a slight twist or firm pull.
2. **Clean Impeller Chamber:** Inspect the impeller chamber for any debris, algae, or mineral buildup. Clean the chamber thoroughly using a small brush and warm water. Ensure the ceramic shaft (if separate) is also clean and free of obstructions.
3. **Insert New Impeller:** Align the new AquaClear Impeller Assembly (Model A638) with the impeller chamber. Gently push the assembly into place until it is fully seated. Ensure it rotates freely without resistance.
4. **Reassemble Filter:** Close the motor housing and reassemble any other filter components that were removed.
5. **Position Filter:** Place the AquaClear 110 Power Filter back onto your aquarium, ensuring it is securely attached and the intake tube is submerged.

6. **Power On:** Plug the filter back into the power source. The filter should begin operating, and water should start circulating.

*Note:* If the filter does not start immediately, ensure the impeller is correctly seated and the filter is primed with water (if applicable to your specific filter model).

## OPERATING INSTRUCTIONS

Once installed, the AquaClear Impeller Assembly operates continuously as part of your AquaClear 110 Power Filter. The impeller's rotation creates the necessary water flow for filtration.

- **Continuous Operation:** The impeller is designed for continuous operation when the filter is powered on.
- **Water Flow:** Observe the water flow from the filter's output. A strong, consistent flow indicates proper impeller function.
- **Noise Level:** The impeller assembly should operate quietly. Excessive noise, grinding, or rattling may indicate an issue requiring inspection.

## MAINTENANCE

Regular cleaning of the impeller assembly is crucial for maintaining optimal filter performance and extending the life of the component. Neglecting maintenance can lead to reduced water flow, increased noise, and premature wear.

1. **Frequency:** Inspect and clean the impeller assembly at least once a month, or more frequently if you notice reduced flow or increased noise.
2. **Disassembly:** Unplug the filter and remove it from the aquarium. Disassemble the motor housing to access the impeller chamber.
3. **Cleaning:** Remove the impeller assembly. Use a small brush (like a pipe cleaner or toothbrush) to gently clean the impeller blades, the magnetic rotor, and the inside of the impeller chamber. Rinse thoroughly with clean, dechlorinated water. Do not use soap or detergents.
4. **Inspect for Wear:** Check the impeller blades and the ceramic shaft for any signs of damage, cracks, or excessive wear. If significant wear is observed, replacement may be necessary.
5. **Reassembly:** Reinsert the clean impeller assembly into the chamber, ensuring it is properly seated. Reassemble the filter and return it to operation.

*Tip:* A common cause of impeller issues is debris or mineral buildup. Regular cleaning prevents these problems.

## TROUBLESHOOTING

| Problem                              | Possible Cause   | Solution  |
|--------------------------------------|--|---|
| Filter not starting / No water flow  | <ul style="list-style-type: none"><li>• Impeller not seated correctly</li><li>• Debris obstructing impeller</li><li>• Power outage or filter unplugged</li></ul> | <ul style="list-style-type: none"><li>• Unplug, remove, and re-seat impeller firmly.</li><li>• Clean impeller and chamber thoroughly.</li><li>• Check power connection.</li></ul>                         |
| Excessive noise (grinding, rattling) | <ul style="list-style-type: none"><li>• Debris in impeller chamber</li><li>• Worn impeller or shaft</li><li>• Impeller not seated correctly</li></ul>            | <ul style="list-style-type: none"><li>• Clean impeller and chamber.</li><li>• Inspect impeller and shaft for wear; replace if necessary.</li><li>• Unplug, remove, and re-seat impeller firmly.</li></ul> |

| Problem            | Possible Cause  | Solution  |
|--------------------|---|---|
| Reduced water flow | <ul style="list-style-type: none"><li>• Clogged filter media</li><li>• Debris on impeller</li><li>• Worn impeller</li></ul> | <ul style="list-style-type: none"><li>• Clean or replace filter media.</li><li>• Clean impeller.</li><li>• Inspect impeller for wear; replace if necessary.</li></ul> |

## SPECIFICATIONS

- **Brand:** AquaClear
- **Model:** A638
- **Compatibility:** AquaClear 110 Power Filter
- **Material:** Ceramic, Plastic
- **Color:** White (Impeller) / Black (Motor Housing)
- **Product Dimensions:** Approximately 1.3"L x 3.5"W x 5"H
- **Item Weight:** Approximately 0.635 ounces (17.96 g)
- **UPC:** 015561106382
- **Country of Origin:** Italy

## WARRANTY AND SUPPORT

The AquaClear Impeller Assembly is covered by a **1 Year Manufacturer Warranty**. This warranty covers defects in materials and workmanship under normal use.

For warranty claims, technical support, or further assistance, please contact AquaClear customer service. Refer to the original AquaClear 110 Power Filter manual or the manufacturer's website for contact information.

*Manufacturer:* Rolf C. Hagen (USA) Corp.



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