

Atlantic MD550

Atlantic Water Gardens MD550 Fountain Pump Instruction Manual

Model: MD550

PRODUCT OVERVIEW

The Atlantic Water Gardens MD-Series magnetic induction pumps are engineered for efficiency and durability, making them an ideal choice for small water features and fountains with low head heights. These submersible pumps are designed for heavy-duty use and come equipped with essential components for reliable operation.



Image: The Atlantic Water Gardens MD550 Energy Efficient Water Feature and Fountain Pump, a compact black unit with a threaded outlet and a perforated pre-filter.

SETUP INSTRUCTIONS

Proper setup is crucial for the optimal performance of your MD550 pump. This pump is designed for submersible use.

Pump Placement and Connections

- Ensure the pump is fully submerged in water for proper cooling and operation.
- The pump features male threads on both the inlet and outlet for secure plumbing connections. The volute can be rotated to accommodate various pump orientations, providing flexibility in installation.
- Connect appropriate tubing to the pump's outlet. The pump is compatible with TidalWave Fountain Heads for diverse water feature designs.
- The pump is equipped with a 20-foot power cord. Ensure it is connected to a grounded electrical outlet.

Selecting the Right Pump and Plumbing

To ensure your water feature operates as intended, it is important to select the correct pump and plumbing size based on your specific setup. The following video provides a detailed guide on how to calculate the Total Dynamic Head (TDH) for your application, which is essential for choosing the perfect pump.

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Video: A guide from Atlantic Water Gardens on "Choosing the Perfect Pump by Calculating Total Dynamic Head." This video explains how to determine the appropriate pump size and plumbing for your water feature to achieve desired flow and efficiency.

MD-SERIES PUMP FEATURES:

- 1. Oversized male threaded inlet and outlet for less restriction and greater flow.
- 2. Rotating volute provides maximum adaptability for any installation.
- 3. Quarter twist volute provides access to the impeller assembly without the use of tools.
- 4. Large, stable base is removable for added versatility.
- 5. Removable pre-filter provides increased surface area and reduces maintenance.
- 6. Tapered outlet fittings accept a wide array of tubing sizes.
- 7. MD1000 – MD1500 include a 1½" adapter for use with the Triton Check Valve and Fountain Basin Plumbing Kits (not shown).



Image: Diagram highlighting key features of the MD-Series pump, including oversized male threaded inlet/outlet, rotating volute, removable stable base, and removable pre-filter. It also notes the 5-year warranty.

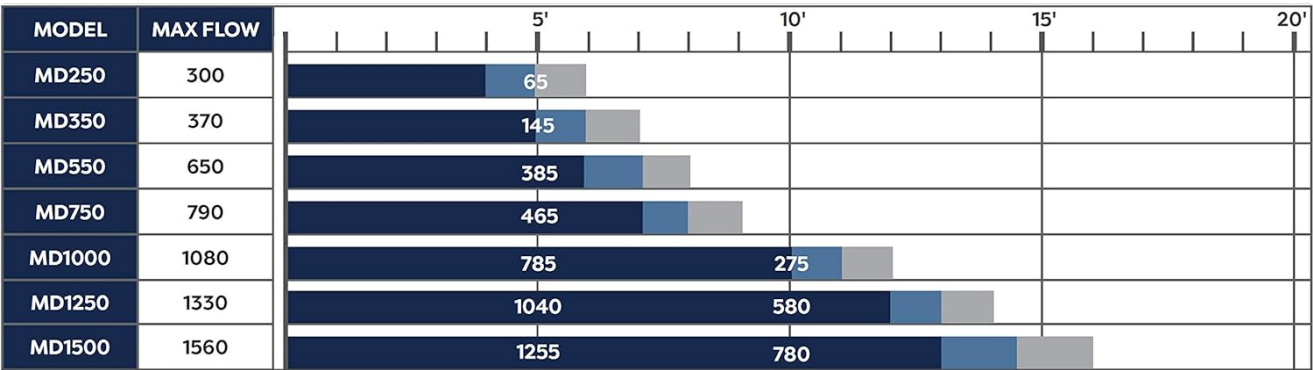


Image: A chart illustrating the maximum flow rates (GPH) for various MD-Series pump models at different head heights (in feet), aiding in pump selection for specific applications.

OPERATING THE PUMP

The MD550 pump utilizes magnetic induction technology for efficient and quiet operation. Once properly installed and connected to power, the pump will begin circulating water. Its energy-efficient design ensures lower operating costs.

Optimizing Water Flow

The pump's design, including male threads on both the inlet and outlet, is optimized for less restrictive flow, leading to higher performance. The rotating volute allows for flexible pump orientation to best suit your water feature's design and maximize flow efficiency.



Image: A natural-looking water feature with a small fountain, demonstrating the type of application suitable for the MD550 pump.

MAINTENANCE

Regular maintenance ensures the longevity and efficient performance of your Atlantic Water Gardens MD550 pump.

Cleaning and Component Care

- **Pre-filter:** The pump features a removable pre-filter. Periodically remove and clean the pre-filter to prevent debris buildup and maintain optimal water flow.
- **Impeller Assembly:** The impeller assembly is replaceable and easily accessible with a quarter-turn of the volute. Regular cleaning of the impeller assembly is recommended to prevent clogs and ensure smooth operation.
- **Ceramic Shaft:** The pump is equipped with an oversized ceramic shaft, which is designed to resist wear better than steel, contributing to a longer service life. Inspect the shaft during impeller cleaning for any signs of wear or damage.

TROUBLESHOOTING

If your MD550 pump is not performing as expected, consider the following common issues:

- **Reduced Flow or No Flow:**

- Check the pre-filter for excessive debris. Clean if necessary.
- Inspect the impeller assembly for blockages or damage. Clear any obstructions.
- Verify that the tubing is not kinked or obstructed.
- Ensure the pump is fully submerged and the water level is adequate.

- **Pump Not Turning On:**

- Check the power connection and ensure the outlet is functioning.
- Inspect the power cord for any visible damage.

- **Unsatisfactory Water Feature Appearance:**

- This can often be due to an incorrect pump selection for your specific water feature's requirements (Total Dynamic Head). Refer to the "Choosing the Perfect Pump" video in the Setup section to re-evaluate your pump and plumbing specifications.

SPECIFICATIONS

Attribute	Detail
Brand	Atlantic
Model Number	MD550
Material	Polypropylene (PP)
Product Dimensions	4.5"L x 3.5"W x 5"H
Power Source	Corded Electric
Item Weight	2 Pounds
Maximum Flow Rate	550 Gallons Per Minute (GPH)
Voltage	115
UPC	727429003565
Manufacturer	Atlantic Water Gardens
Specific Uses	Outdoor water features

WARRANTY INFORMATION

The Atlantic Water Gardens MD-Series pumps, including the MD550 model, come with a **five-year limited warranty**.


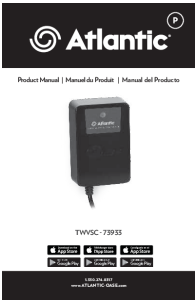

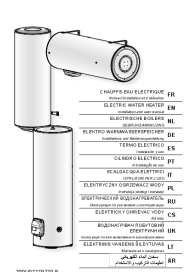
Please retain your proof of purchase for warranty claims. For detailed terms and conditions of the warranty, refer to the documentation included with your product or contact Atlantic Water Gardens directly.

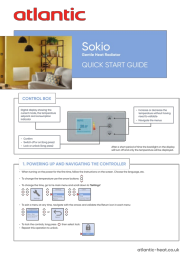

SUPPORT

For additional support, product information, or to explore other Atlantic Water Gardens products, please visit the official Atlantic Store:

[Visit the Atlantic Store on Amazon](#)

Related Documents - MD550

	<p>Atlantic Spillway Scupper Operating Manual and Installation Guide</p> <p>Comprehensive operating manual for Atlantic Stainless Steel and Copper Finished Spillway Scuppers (models SS12, SS24, SS36, CS12, CS24, CS36). Includes detailed installation requirements, plumbing instructions, maintenance tips, winterization guide, and warranty information for these pond-free and fountain water features.</p>
	<p>Atlantic TidalWave Variable Speed Controller (VSC) TWVSC-73933 Product Manual</p> <p>This product manual for the Atlantic TidalWave Variable Speed Controller (VSC) TWVSC-73933 details its features, installation, operation via the Atlantic Control app, safety precautions, maintenance, and troubleshooting. It enables Bluetooth® control for Atlantic TT-Series pumps.</p>
	<p>Atlantic DOMOCABLE Heating Cable: Installation and User Manual</p> <p>Comprehensive guide for installing and operating the Atlantic DOMOCABLE heating cable system, including thermostat setup, programming, remote control, and safety precautions.</p>
	<p>Manuel d'installation et d'utilisation : Chauffe-eau Électrique Atlantic</p> <p>Ce manuel fournit des instructions détaillées pour l'installation, l'utilisation sécuritaire et l'entretien d'un chauffe-eau électrique de la marque Atlantic. Il couvre les aspects essentiels tels que les consignes de sécurité, les raccordements hydrauliques et électriques, la mise en service et les informations de garantie.</p>

 The image shows the cover of the 'Atlantic Sokio Quick Start Guide'. It features the Atlantic logo at the top left. Below it is a photograph of a modern interior with a lamp and a plant. To the right of the photo, the text 'Sokio' is written in a large, bold font, followed by 'Quick Start Guide' in a smaller font. The bottom half of the cover contains technical diagrams and text related to the radiator's operation.	<p>Atlantic Sokio Gentle Heat Radiator Quick Start Guide</p> <p>A quick start guide for the Atlantic Sokio Gentle Heat Radiator, covering setup, navigation, operating modes, and programming features for optimal room temperature control.</p>
 The image shows the cover of the 'Atlantic Abelia-RC14D' manual. It features the Atlantic logo at the top left. Below it is a photograph of the Abelia-RC14D radiator panel. To the right of the photo, the text 'ABELIA-RC14D' is written in a large, bold font, followed by 'Manuel d'installation et d'utilisation' in a smaller font. The bottom half of the cover contains technical diagrams and text related to the radiator's installation and use.	<p>Notice d'utilisation et d'installation Atlantic Abelia-RC14D</p> <p>Manuel complet pour l'installation, l'utilisation et la programmation du panneau rayonnant Atlantic Abelia-RC14D. Inclut les spécifications techniques, les consignes de sécurité et le dépannage.</p>