

Waterway 3410030-1E

Waterway Plastics 3410030-1E Iron Might Pond Pump User Manual

Model: 3410030-1E | Voltage: 115V

1. INTRODUCTION

The Waterway Plastics 3410030-1E Iron Might Pond Pump is engineered for continuous 24-hour circulation in water garden and pond environments. This robust 48-frame pump features a side discharge design for optimal flow, delivering up to 40 gallons per minute (GPM). It operates at 1725 RPM and is designed for reliable performance in appropriate applications.



Figure 1: Waterway Plastics 3410030-1E Iron Might Pond Pump. This image displays the overall appearance of the pump, highlighting its motor and pump housing components.

2. SAFETY INFORMATION

Please read and understand all safety instructions before installation and operation. Failure to follow these instructions may result in serious injury or property damage.

- This pump is **not approved for pool filtration in the State of California**
- Always disconnect power to the pump before performing any installation, maintenance, or service.
- The pump does not come with a power cord or switch. All electrical connections must be performed by a qualified electrician in accordance with all local and national electrical codes.
- This pump is **not self-priming**. The pump head must be positioned below the water level to ensure proper operation and prevent damage from dry running.
- Ensure the pump is installed on a stable, level surface to prevent vibration and movement.

3. PACKAGE CONTENTS

Verify that all items are present upon unpacking:

- Waterway Plastics 3410030-1E Iron Might Pond Pump
- 1.5" Unions (Part Number 400-4060) - *Please note: While the product description indicates unions are shipped with the pump, it is advisable to verify package contents upon receipt.*

4. SETUP

4.1 Placement

Due to its non-self-priming nature, the pump must be installed with the pump head located below the water level of the pond or water feature. This ensures a continuous supply of water to the pump and prevents airlocks or dry running.

4.2 Plumbing Connections

The pump features 1.5" inlet and outlet plumbing. It is supplied with 1.5" unions (part number 400-4060) designed for connection to 1.5" PVC piping. Ensure all plumbing connections are watertight using appropriate sealants and tools.

- **Optional Connections:**

- For 1" hose barb connections, an optional 1" hose barb union (part number 425-2020hb) is available separately.
- For 1" PVC connections, an optional 1" PVC union (part number 425-2020) is available separately.

4.3 Electrical Connection

This pump operates on 115 Volts and draws approximately 1.3 Amps. A power cord and switch **are not supplied** with the pump. It is mandatory that all electrical wiring and connections be performed by a qualified and licensed electrician. Ensure compliance with all local and national electrical codes to prevent electrical hazards.

4.4 Debris Protection

An optional debris basket (part number 310-5400) is available for purchase. Installing this basket can help protect the pump's impeller from larger debris, extending its lifespan and maintaining efficiency.

5. OPERATING INSTRUCTIONS

Once the pump is correctly installed, plumbed, and electrically connected, ensure the pump head is fully submerged in water. Apply power to the pump. The pump is designed for continuous 24-hour circulation. Monitor the pump's operation for any unusual noises or reduced flow.

6. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your pump.

- **Regular Inspection:** Periodically inspect the pump, plumbing, and electrical connections for any signs of wear, damage, or leaks.
- **Clean Intake:** Regularly clean any debris from the pump's intake area. If an optional debris basket is installed, clean it frequently to prevent blockages and maintain optimal water flow.
- **Submersion:** Always ensure the pump remains fully submerged during operation. Dry running can cause severe damage to the pump motor and seals.
- **Winterization:** In regions with freezing temperatures, disconnect and remove the pump from the water for winter storage. Clean the pump thoroughly and store it in a frost-free location.

7. TROUBLESHOOTING

Refer to the following table for common issues and their solutions:

Problem	Possible Cause	Solution
Pump not running	No power; faulty wiring; motor issue	Check power supply and circuit breaker. Verify electrical connections. Consult a qualified electrician if wiring is suspected.
Reduced water flow	Clogged intake/discharge; airlock; pump not fully submerged; impeller obstruction	Clean intake screen or debris basket. Ensure pump head is below water level. Disconnect power and inspect impeller for debris.
Unusual noise or vibration	Impeller obstruction; loose mounting; air in system	Disconnect power and inspect impeller. Ensure pump is securely mounted. Verify pump is fully submerged and free of air.
Pump runs, but no water flow	Airlock; pump not primed; severe blockage	Ensure pump head is below water level. Disconnect power, clear any blockages, and restart.

8. SPECIFICATIONS

Brand	Waterway Plastics
Model Number	3410030-1E
Voltage	115 Volts
Amperage	1.3 Amps
Maximum Flow Rate	40 Gallons Per Minute (GPM)
RPM	1725 rpm
Product Dimensions (L x W x H)	9" x 13" x 8.5"
Item Weight	13.54 Pounds
Material	Plastic
Color	Black
Inlet/Outlet Plumbing	1.5" (ships with 1.5" unions)
Specific Use	Water Garden and Pond Circulation
Manufacturer	Waterway Plastics
Country of Origin	USA

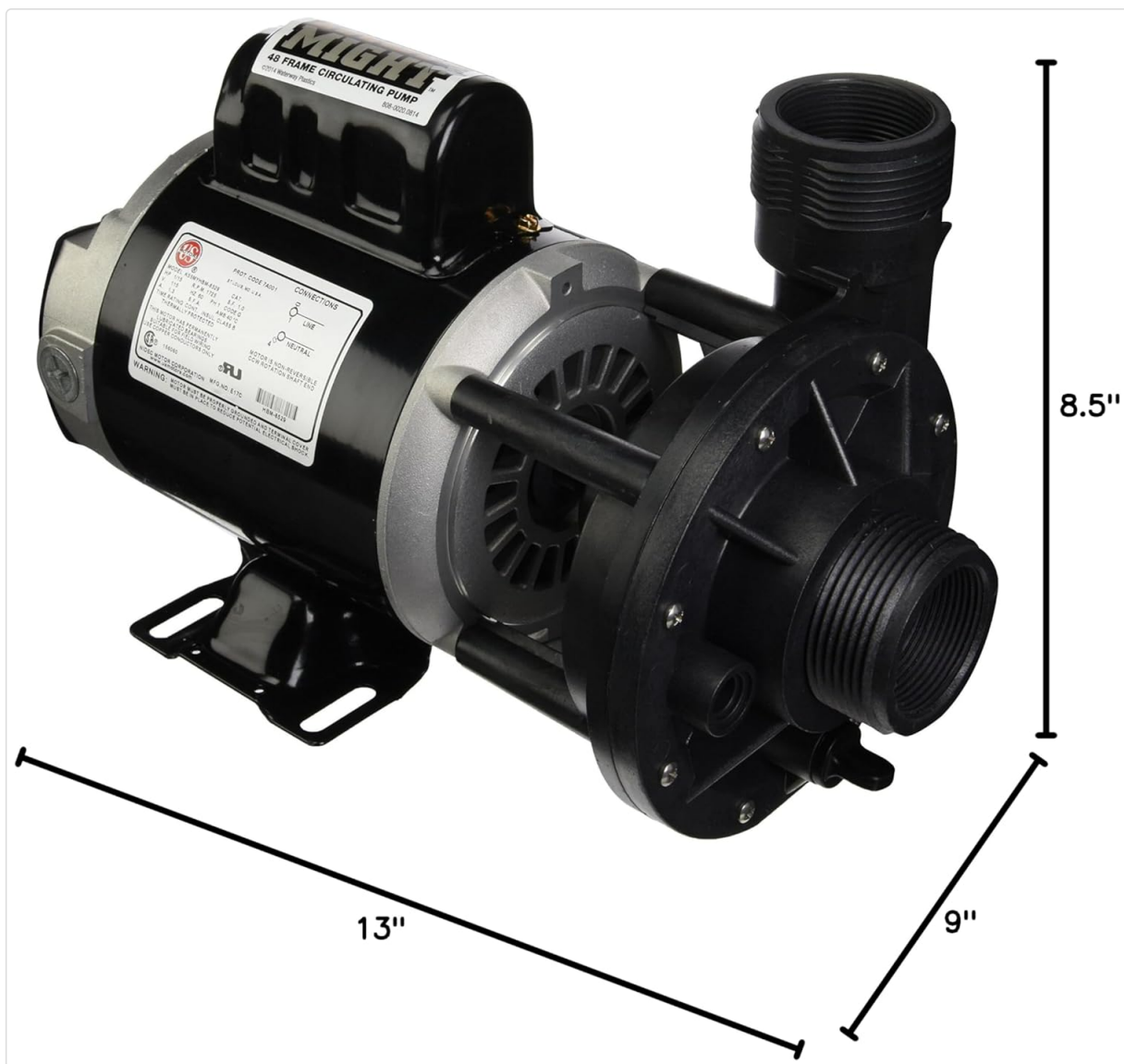



Figure 2: Waterway Plastics 3410030-1E Iron Might Pond Pump with key dimensions (Length: 13", Width: 9", Height: 8.5").

9. WARRANTY AND SUPPORT

The Waterway Plastics 3410030-1E Iron Might Pond Pump is covered by a **1-year manufacturer warranty** from the date of purchase.

For technical assistance, warranty claims, or to inquire about replacement parts, please contact Waterway Plastics customer service directly. Retain your proof of purchase for warranty validation.

Related Documents - 3410030-1E

	<p>Waterway Iron Might Pump Instructions: Safety, Installation, and Troubleshooting Guide</p> <p>Comprehensive guide for the Waterway Iron Might Pump, covering essential safety precautions, detailed installation steps, motor wiring diagrams, troubleshooting common issues, and component diagrams for pools and spas.</p>
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