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Blue Wave NE8171

Blue Wave NE8171 Tidal Wave Replacement Pump User Manual

Model: NE8171

INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Blue Wave NE8171 Tidal Wave Replacement Pump. Please read this manual thoroughly before attempting to install or operate the pump. Retain this manual for future reference.

SAFETY INFORMATION

WARNING: Always disconnect power to the pump before performing any service or maintenance. Failure to do so can result in serious injury or death.

- Ensure all electrical connections are made by a qualified electrician and comply with local codes.
- Do not operate the pump if it is damaged or has exposed wiring.
- Keep children and unauthorized persons away from the pump and pool area during operation.
- This pump is designed for use with in-ground pools. Do not use for other purposes.
- The pump operates on 110V/220V. Verify your power supply matches the pump's requirements.
- This product is not legal for sale in California.

PRODUCT OVERVIEW

The Blue Wave NE8171 Tidal Wave Replacement Pump is a high-performance pump designed for in-ground pools. It offers a direct drop-in replacement for Hayward Superpumps of the same horsepower rating, eliminating the need for re-plumbing. Its quiet, heavy-duty motor is ventilated for cooler operation, ensuring long-lasting performance.



Figure 1: Blue Wave NE8171 Tidal Wave Replacement Pump. This image shows the black pump unit with a clear strainer lid on top, and the motor extending from the back.

Key Features:

- Direct replacement for Hayward Superpump (same HP rating) without re-plumbing.
- Clear strainer lid for easy visual inspection of debris.
- Compatible with 1.5-inch plumbing.
- ETL/CETL Certified for safety and quality.
- Operates on 110V/220V with a 10 amp rating.

SETUP AND INSTALLATION

Proper installation is crucial for the pump's performance and longevity. If you are replacing an existing Hayward Superpump of the same horsepower, no re-plumbing is typically required.

1. **Power Disconnection:** Ensure all power to the existing pump and pool equipment is turned off at the circuit breaker before beginning installation.

2. **Placement:** Position the new pump on a solid, level surface, as close to the pool as possible to minimize friction loss from plumbing. Ensure adequate ventilation around the motor.
3. **Plumbing Connections:** Connect the pump to your pool's plumbing system. The pump is compatible with 1.5-inch plumbing. Use appropriate PVC cement and primer for secure, leak-free connections.
4. **Electrical Wiring:** All electrical wiring must be performed by a licensed electrician in accordance with national and local electrical codes. Ensure the correct voltage (110V or 220V) is supplied and that the wiring is properly grounded.
5. **Priming the Pump:** Before starting the pump for the first time, remove the clear strainer lid and fill the strainer basket with water until it reaches the suction pipe level. Replace the lid securely. This primes the pump and prevents dry running.

OPERATION

Once installed and primed, operating your Tidal Wave pump is straightforward.

1. **Initial Start-up:** After priming, restore power to the pump at the circuit breaker. The pump should start and begin circulating water.
2. **Monitoring:** Observe the clear strainer lid to ensure water is flowing freely and there are no large air bubbles. If the pump loses prime, turn it off immediately, re-prime, and restart.
3. **Run Time:** The optimal run time for your pool pump depends on various factors such as pool size, bather load, and filter type. Consult a pool professional for specific recommendations.
4. **Shutting Down:** To turn off the pump, simply switch off the power at the dedicated circuit breaker.

MAINTENANCE

Regular maintenance will extend the life of your pump and ensure efficient pool filtration.

- **Strainer Basket Cleaning:** Periodically check the clear strainer lid for debris accumulation. When the basket appears full, turn off the pump, remove the lid, empty the basket, and rinse it clean. Inspect the lid O-ring for cracks or wear and lubricate it with a silicone-based lubricant if needed.
- **Motor Ventilation:** Ensure the motor's ventilation openings are clear of obstructions to allow for proper airflow and cooler operation.
- **Winterization:** In colder climates, the pump must be properly winterized to prevent freeze damage. Drain all water from the pump and plumbing lines. Store the pump in a dry, protected area if possible, or cover it securely.
- **Leak Inspection:** Regularly inspect all plumbing connections for leaks. Tighten connections as necessary.

TROUBLESHOOTING

This section provides solutions to common issues you might encounter. For problems not listed here, contact qualified service personnel.

Problem	Possible Cause	Solution
Pump does not start.	No power; tripped breaker; faulty wiring.	Check circuit breaker; ensure power is connected; consult electrician.
Pump runs but no water flow.	Pump not primed; clogged strainer basket; closed valves; air leak in suction line.	Re-prime pump; clean strainer basket; open all necessary valves; check for air leaks.

Problem	Possible Cause	Solution
Low water flow.	Clogged filter; partially closed valves; dirty impeller.	Backwash/clean filter; ensure valves are fully open; inspect and clean impeller (power off).
Excessive noise.	Air leak in suction line; cavitation; worn bearings.	Check for air leaks; ensure pump is primed; contact service professional for bearing issues.

SPECIFICATIONS

Detailed specifications for the Blue Wave NE8171 Tidal Wave Replacement Pump:

Attribute	Value
Brand	Blue Wave
Model Number	NE8171
Color	Black
Material	Polyethylene
Style	Above Ground <i>(Note: Product description states In-Ground, please verify with manufacturer)</i>
Power Source	Battery Powered <i>(Note: Product description implies wired, please verify with manufacturer)</i>
Item Weight	24 Pounds
Voltage	110V/220V
Manufacturer	Blue Wave Products
UPC	672875600762
Specific Uses For Product	In-Ground Pool
Product Dimensions	24 x 9 x 11 inches

Note: Some specifications from the source data (e.g., "Style: Above Ground", "Power Source: Battery Powered") appear to contradict the product description ("In-Ground Pools", "110V/220V"). Please refer to the official product packaging or manufacturer's website for the most accurate specifications.

WARRANTY AND SUPPORT

For detailed warranty information, please refer to the warranty card included with your product or visit the official Blue Wave website.

For technical support, replacement parts, or further assistance, please contact Blue Wave customer service. You can also visit the official Blue Wave store online: [Blue Wave Store](#).

