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## BOMGIE SPX-3004N

# BOMGIE SPX-3004N 3HP Single Speed Pool Pump Instruction Manual

Model: SPX-3004N

## 1. INTRODUCTION

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This manual provides essential information for the safe installation, operation, and maintenance of your BOMGIE SPX-3004N 3HP Single Speed Pool Pump. Please read these instructions thoroughly before installation and use to ensure proper function and longevity of the product. Retain this manual for future reference.



Image 1.1: BOMGIE SPX-3004N 3HP Single Speed Pool Pump with included accessories.

## 2. SAFETY INFORMATION

Always observe basic safety precautions to reduce the risk of fire, electric shock, and injury to persons.

- **Electrical Safety:** All wiring must be performed by a qualified electrician and comply with local electrical codes. Ensure the power supply matches the pump's voltage requirements (220V).
- **Grounding:** The pump must be properly grounded to reduce the risk of electric shock.
- **Water and Electricity:** Never operate the pump if water is present around the motor or electrical connections. Avoid contact with electrical components when wet.
- **Priming:** Always fill the pump with water before turning it on to prevent damage to seals and impellers. Verify water filling before using.
- **Maintenance:** Disconnect power before performing any maintenance or cleaning.
- **Children:** Keep children away from the pump and electrical connections.

## 3. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 x BOMGIE SPX-3004N Pool Pump
- 2 x 1.5 inch Connectors
- 2 x 2 inch Connectors
- 1 x Instruction Manual (this document)

## 4. PRODUCT OVERVIEW AND COMPONENTS

Familiarize yourself with the main components of your BOMGIE pool pump.

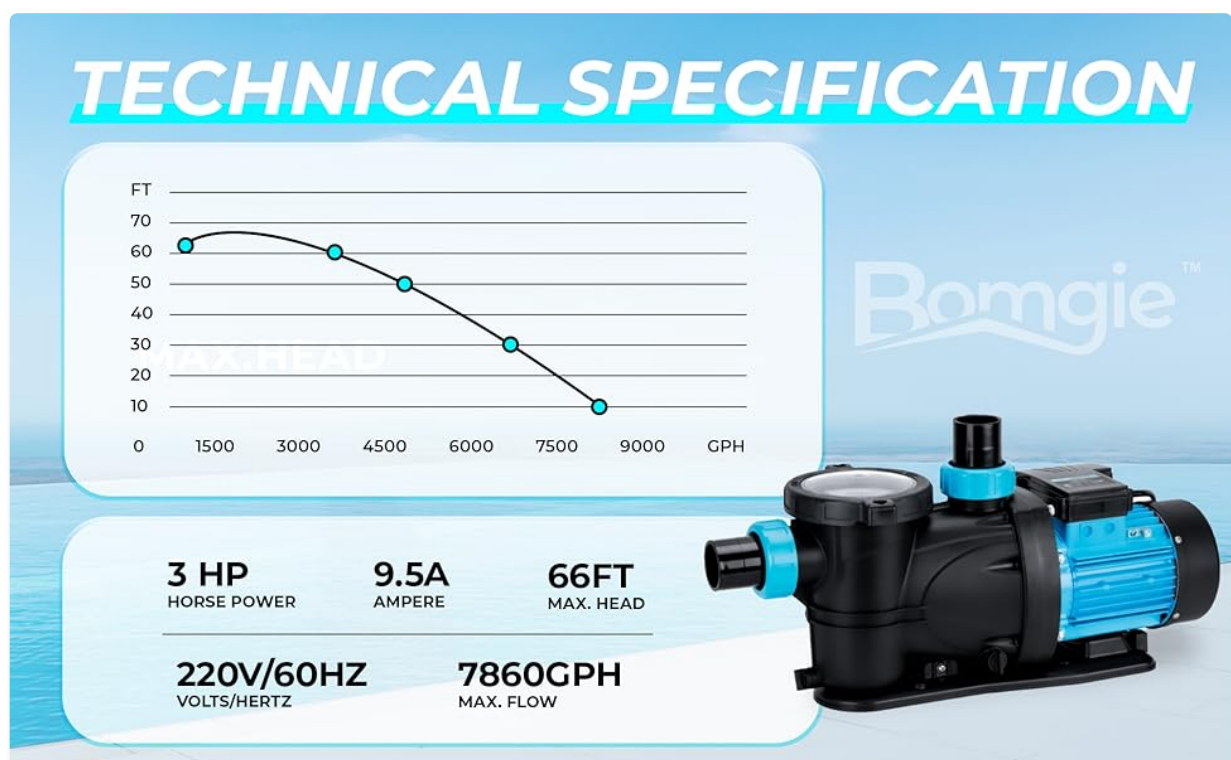


Image 4.1: Diagram illustrating the main components of the BOMGIE pool pump, including the motor, filter basket, transparent lid, inlet, outlet, drain plugs, power cord, and earthing terminal.

Key components include:

- **Motor:** The 3HP high-efficiency motor drives the pump.
- **Filter Basket:** A large, removable basket designed to collect debris.
- **Transparent Lid:** Allows visual inspection of the filter basket to determine when cleaning is needed.
- **Inlet/Outlet:** Connection points for pool plumbing.
- **Drain Plugs:** For draining water from the pump housing.
- **Power Cord:** Connects the pump to the electrical supply.
- **Earthing Terminal:** For proper grounding.

## 5. SPECIFICATIONS

The BOMGIE SPX-3004N pool pump offers the following technical specifications:

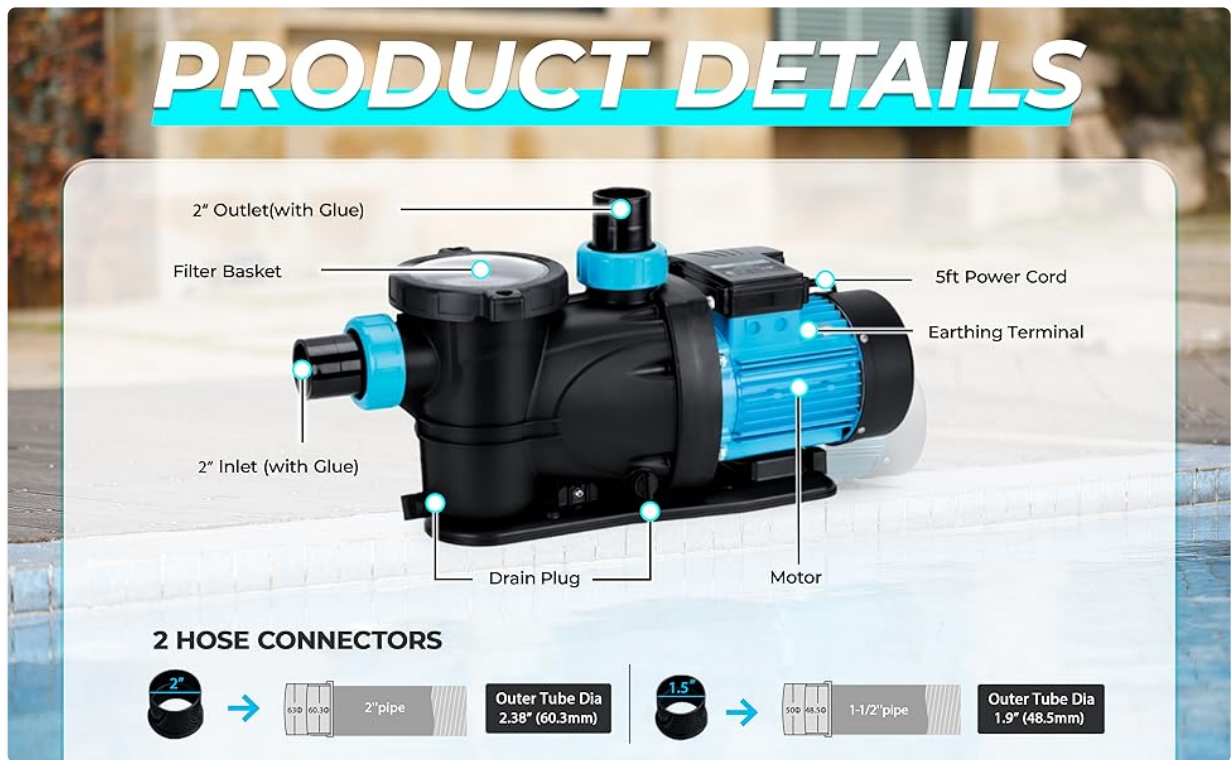


Image 5.1: Visual representation of the pump's maximum head, flow rate, and input voltage.

Feature	Specification
Model Number	SPX-3004N
Horsepower (HP)	3 HP
Max. Flow Rate	7860 GPH (Gallons Per Hour)
Max. Head	66 FT
Voltage	220V
Frequency	60Hz

Feature	Specification
Speed Type	Single Speed
Noise Level	<65dB
Max. Operating Temperature	40°C
Item Weight	38.2 pounds
Package Dimensions	25 x 11 x 9.5 inches



**SWIMMING POOL**



**GARDEN POOL**



**LAWN IRRIGATION**

*Image 5.2: Detailed dimensions of the BOMGIE pool pump, showing length, width, and height measurements.*

## 6. SETUP AND INSTALLATION

Proper installation is crucial for the pump's performance and safety. This pump is suitable for both in-ground and above-ground pool systems.

### 6.1 Site Selection

- Install the pump as close to the pool as possible to minimize friction loss from long suction lines.
- Ensure the location is well-ventilated and protected from direct sunlight and excessive moisture.
- Provide adequate space around the pump for maintenance and service.
- Mount the pump on a firm, level base to prevent vibration.

### 6.2 Plumbing Connections

The pump includes both 1.5-inch and 2-inch connectors for versatile plumbing options. Use appropriate PVC pipes and fittings.

1. **Prepare Connections:** Apply Teflon tape or pipe sealant to threaded connections to ensure a watertight seal.

2. **Suction Line (Inlet):** Connect the suction line from the pool skimmer/main drain to the pump's inlet port. Ensure this line is as short and straight as possible.
3. **Discharge Line (Outlet):** Connect the discharge line from the pump's outlet port to the pool filter.
4. **Tool-Free Installation:** The female and slip union connections allow for tool-free installation of the included connectors.



Image 6.1: The pump with its various connectors (1.5-inch and 2-inch) and overall dimensions.

## 6.3 Electrical Wiring

**WARNING:** Electrical wiring should only be performed by a licensed electrician. Ensure power is disconnected at the circuit breaker before beginning any wiring.

- The pump requires a 220V power supply.
- Connect the pump to a dedicated circuit protected by a Ground Fault Circuit Interrupter (GFCI).
- Ensure all connections are secure and protected from moisture.

## 7. OPERATING INSTRUCTIONS

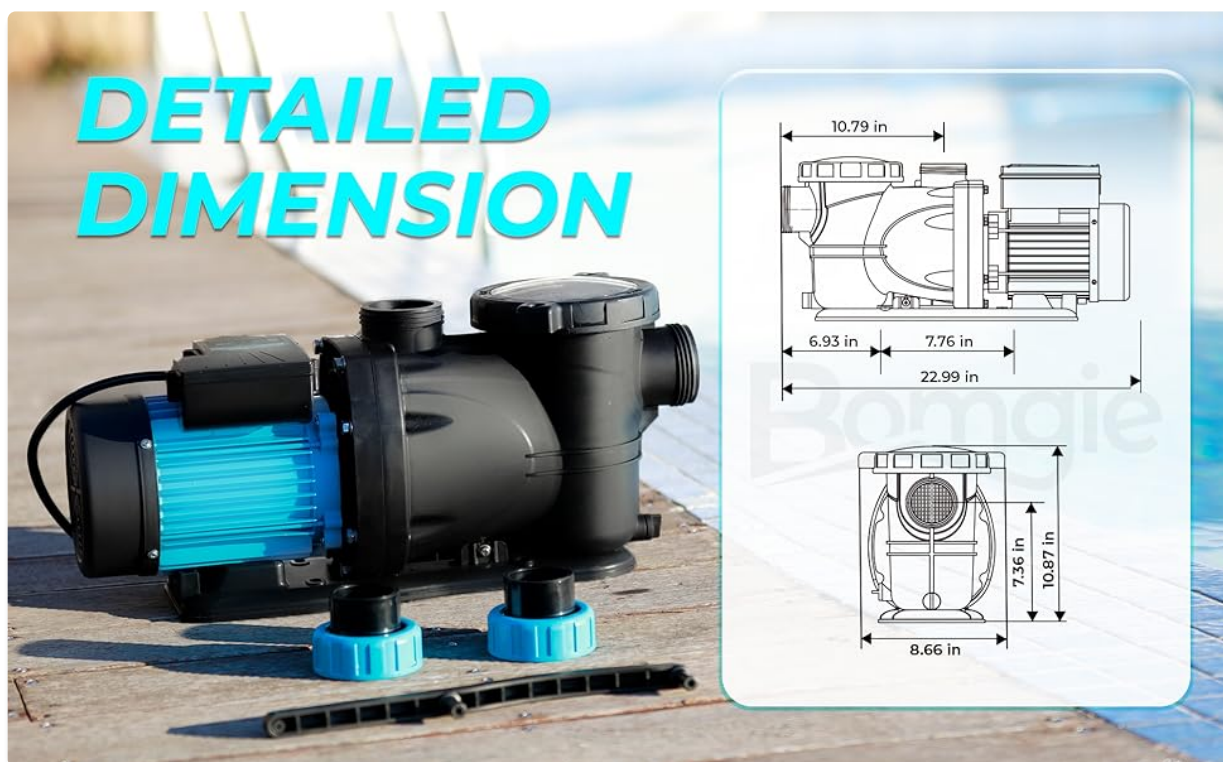
### 7.1 Priming the Pump

**IMPORTANT: Never run the pump dry. Running the pump without water will cause severe damage and void the warranty.**

1. Ensure all valves in the suction and discharge lines are open.
2. Remove the transparent lid from the strainer basket.
3. Fill the strainer housing completely with water.
4. Replace the transparent lid, ensuring it is securely tightened to prevent air leaks.
5. Turn on the power to the pump. The pump should begin to draw water and prime itself. This may take several minutes.
6. If the pump does not prime within five minutes, turn it off, re-check water levels, and inspect for air leaks in the suction line. Repeat the priming process.

## 7.2 Normal Operation

Once primed, the pump will continuously circulate water through your pool system. Monitor the pressure gauge on your filter (if applicable) to ensure proper flow. The pump is designed for low noise operation (<65dB).



*Image 7.1: Illustration of stable flow output from the pump, highlighting low noise and maximum temperature.*

## 8. MAINTENANCE

Regular maintenance ensures optimal performance and extends the life of your pool pump.

### 8.1 Cleaning the Filter Basket

The transparent lid allows you to easily see when the filter basket needs cleaning.

1. **Turn Off Power:** Always disconnect power to the pump at the circuit breaker before opening the strainer lid.

2. **Release Pressure:** If applicable, open the air relief valve on your filter to release any system pressure.
3. **Remove Lid:** Unscrew the transparent lid counter-clockwise.
4. **Remove Basket:** Lift out the strainer basket.
5. **Clean Basket:** Empty any collected debris (leaves, grit, hair) and rinse the basket thoroughly with water.
6. **Inspect O-Ring:** Check the lid's O-ring for cracks or wear. Replace if necessary. Lubricate with a silicone-based lubricant.
7. **Reassemble:** Place the clean basket back into the housing, ensuring it seats correctly. Replace the lid and tighten securely by hand. Do not over-tighten.
8. **Reprime:** Follow the priming instructions in Section 7.1 before restarting the pump.

## RELIABLE DESIGN

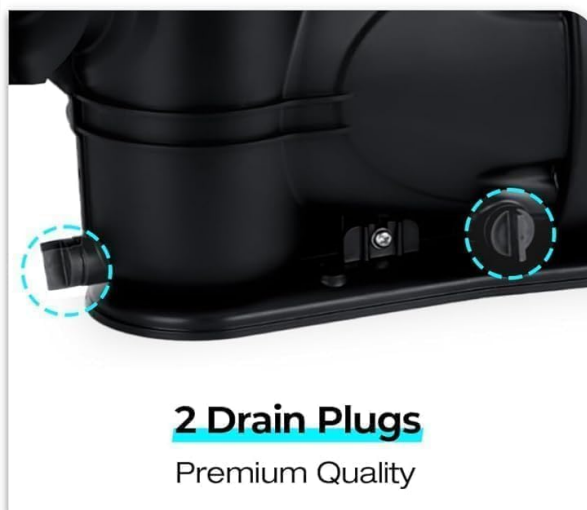


Image 8.1: Close-up view of the removable filter basket and drain plugs, illustrating ease of access for cleaning.

### 8.2 Draining the Pump (Winterization)

Before freezing temperatures, drain the pump to prevent damage.

1. **Turn Off Power:** Disconnect power to the pump.

2. **Open Drain Plugs:** Locate and remove the two drain plugs at the bottom of the pump housing.
3. **Allow to Drain:** Let all water drain completely from the pump.
4. **Store Plugs:** Keep the drain plugs in a safe place for reinstallation.

## 9. TROUBLESHOOTING

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Refer to this section for common issues and their solutions.

Problem	Possible Cause	Solution
Pump does not start	No power; tripped breaker; faulty wiring	Check power supply, reset breaker, inspect wiring (qualified electrician only).
Pump runs but does not prime or has low flow	Air leak in suction line; low water level; clogged strainer basket; closed valves	Ensure pool water level is adequate. Check all connections for air leaks. Clean strainer basket. Open all valves. Re-prime pump.
Pump is noisy	Air leak; cavitation; motor bearing wear; debris in impeller	Check for air leaks. Ensure proper water flow to prevent cavitation. If noise persists, contact support.
Water leaking from pump	Loose connections; worn shaft seal; cracked housing	Tighten connections. Inspect and replace shaft seal if worn. If housing is cracked, pump may need replacement.
Motor overheats and shuts off	Insufficient ventilation; low voltage; running dry; clogged impeller	Ensure adequate airflow around motor. Verify correct voltage. Ensure pump is primed. Clean impeller.

## 10. WARRANTY AND SUPPORT

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BOMGIE provides a minimum **24-month warranty** for this product, ensuring support for manufacturing defects and operational issues under normal use. Please retain your proof of purchase for warranty claims. For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact BOMGIE customer support through the retailer where the product was purchased or visit the official BOMGIE website.