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> SHIMGE SH60T 0.5 HP 24 Liter Hydro-Pneumatic Water Pump User Manual

## SHIMGE SH60T

# SHIMGE SH60T 0.5 HP 24 Liter Hydro-Pneumatic Water Pump User Manual

Model: SH60T

## 1. INTRODUCTION AND OVERVIEW

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The SHIMGE SH60T 0.5 HP 24 Liter Hydro-Pneumatic Water Pump is designed to provide consistent water pressure for various domestic and light commercial applications. This robust unit features a 0.5 horsepower motor and a 24-liter pressure tank, ensuring reliable performance and efficient water delivery. Its compact design facilitates easy installation and optimal space utilization. The pump's impeller is constructed from durable brass, contributing to a long operational lifespan. This pump operates on a standard 127V, 60 Hz electrical supply and is pre-calibrated to maintain a pressure range of 20-40 psi, with a maximum pressure capability of 40 psi. It features 1-inch NPT suction and discharge connections for straightforward plumbing integration.



Image of the SHIMGE SH60T hydro-pneumatic water pump, showcasing its compact design with a green and red color scheme, featuring the motor unit and the 24-liter pressure tank.

## 2. SAFETY INFORMATION

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Read all safety warnings and instructions carefully before installing or operating this product. Failure to follow these instructions may result in electric shock, fire, serious injury, or property damage. Keep this manual for future reference.

- **Electrical Safety:** Always disconnect power before performing any installation, maintenance, or repair. Ensure the pump is properly grounded according to local electrical codes. Do not operate the pump with wet hands or while standing in water. Use a dedicated circuit with appropriate overcurrent protection.
- **Water Safety:** Protect the pump and plumbing from freezing temperatures. Ensure all plumbing connections are secure to prevent leaks. This pump is designed for clean water use only. Do not use with flammable liquids or corrosive chemicals.
- **Pressure Safety:** Do not exceed the maximum operating pressure of 40 psi. Ensure the pressure switch is correctly set within the 20-40 psi range. A pressure relief valve is recommended for systems where overpressure could occur.
- **Installation:** Installation should be performed by qualified personnel familiar with plumbing and electrical systems. Ensure the pump is installed on a stable, level surface in a well-ventilated area.
- **Children and Pets:** Keep children and pets away from the pump during operation and maintenance.

## 3. PACKAGE CONTENTS

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Verify that all components are present and undamaged upon unpacking. If any parts are missing or damaged, contact

your retailer immediately.

- 0.5 HP Water Pump Unit
- 24 Liter Hydro-Pneumatic Tank
- User Manual (this document)

## 4. SETUP AND INSTALLATION

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Proper installation is crucial for the safe and efficient operation of your hydro-pneumatic pump. Follow these steps carefully.

1. **Location:** Choose a dry, well-ventilated, and protected location for the pump. Ensure the area is free from frost and direct sunlight. The pump is designed for "Above the Ground" installation.
2. **Mounting:** Place the pump on a stable, level, and solid surface to minimize vibration and noise. Secure the pump if necessary.
3. **Plumbing Connections:**
  - Connect the suction line (inlet) to the 1-inch NPT suction port. Ensure the suction line is airtight to prevent air leaks, which can cause the pump to lose prime.
  - Connect the discharge line (outlet) to the 1-inch NPT discharge port. Install a check valve on the discharge side if not already integrated into the system, to prevent backflow.
  - Use appropriate thread sealant (e.g., PTFE tape) on all threaded connections to ensure a watertight seal.
4. **Electrical Connection:**
  - Ensure the power supply matches the pump's requirements: 127V, 60 Hz.
  - Connect the pump to a properly grounded electrical outlet. If wiring directly, ensure all connections are secure and comply with local electrical codes.
  - Install a circuit breaker or fuse with the correct rating for the pump's motor.
5. **Priming the Pump:**
  - Before initial operation, the pump must be primed. Open the priming plug (usually located on top of the pump casing).
  - Fill the pump casing completely with clean water until it overflows.
  - Replace and tighten the priming plug.
  - Open a faucet in the system to allow air to escape during initial startup.

## 5. OPERATION

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Once installed and primed, your SHIMGE SH60T pump is ready for operation.

1. **Initial Start-up:** With a faucet open in the system, turn on the power to the pump. The pump will start and begin to draw water. Once water flows steadily from the faucet and all air is expelled, close the faucet.
2. **Automatic Operation:** The pump is equipped with a pressure switch that automatically turns the pump on and off to maintain water pressure within the pre-calibrated range of 20-40 psi. When water is drawn from the system (e.g., by opening a faucet), the pressure drops, and the pump will activate. When the pressure reaches the upper limit, the pump will shut off.
3. **Monitoring:** Periodically check the pressure gauge (if installed) to ensure the pump is operating within its specified pressure range.

## 6. MAINTENANCE

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Regular maintenance ensures the longevity and efficient performance of your pump.

- **Regular Inspection:** Periodically inspect the pump and all connections for leaks, corrosion, or damage. Address any issues promptly.
- **Pressure Tank Air Charge:** The pressure tank contains an air bladder that helps maintain pressure. The air charge should be checked annually when the tank is empty of water and the pump is off. The pre-charge pressure should typically be 2 psi below the pump's cut-in pressure (e.g., 18 psi for a 20 psi cut-in). Use a tire pressure gauge on the air valve (usually under a cap on the tank).
- **Winterization:** In areas subject to freezing temperatures, drain the pump and all exposed plumbing lines to prevent damage from freezing. Disconnect power, open drain plugs, and store the pump in a warm, dry place if possible.
- **Cleaning:** Keep the pump motor and vents free from dust and debris to ensure proper cooling.

## 7. TROUBLESHOOTING

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Refer to this section for common issues and their potential solutions.

Problem	Possible Cause	Solution
Pump does not start	No power; tripped circuit breaker; faulty pressure switch; motor overload.	Check power supply; reset breaker; inspect/replace pressure switch; allow motor to cool.
Pump runs continuously or cycles frequently	Air leak in suction line; low air charge in tank; water leak in system; faulty pressure switch.	Check all suction connections for leaks; check and recharge tank air pressure; inspect plumbing for leaks; inspect/replace pressure switch.
No water or low pressure	Pump not primed; clogged suction line/filter; air leak; low water source; impeller damage.	Re-prime pump; clear obstructions; check for air leaks; ensure adequate water supply; inspect impeller.
Excessive noise or vibration	Loose mounting; cavitation (air in pump); worn bearings; foreign object in pump.	Tighten mounting bolts; check for air leaks/prime; contact service for bearing replacement; inspect pump for obstructions.

## 8. SPECIFICATIONS

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<b>Model Number</b>	SH60T
<b>Manufacturer</b>	SHIMGE
<b>Power</b>	0.5 HP
<b>Tank Capacity</b>	24 Liters
<b>Voltage</b>	127V
<b>Frequency</b>	60 Hz
<b>Pre-calibrated Pressure Range</b>	20-40 psi
<b>Maximum Pressure</b>	40 psi
<b>Suction/Discharge Connections</b>	1" NPT

<b>Impeller Material</b>	Brass
<b>Pump Casing Material</b>	Cast Iron
<b>Tank Material</b>	Stainless Steel
<b>Style</b>	Above the Ground
<b>Product Weight</b>	10 kg (22.05 lbs)
<b>Usage</b>	Clean Water

## 9. WARRANTY AND SUPPORT

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For warranty information, please refer to the documentation provided at the time of purchase or contact your retailer.

Warranty terms and conditions may vary depending on the region and point of sale.

For technical support, spare parts, or service inquiries, please contact the retailer from whom you purchased the product or the manufacturer directly. Have your model number (SH60T) and purchase date ready when contacting support.

