

wassermann WAC15-WNDL15/56J

WASSERMANN WAC15-WNDL15/56J Centrifugal Pump 1.5 HP User Manual

Model: WAC15-WNDL15/56J

1. INTRODUCTION

This manual provides instructions for the installation, operation, and maintenance of the WASSERMANN WAC15-WNDL15/56J Centrifugal Pump. This 1.5 HP self-priming pump is designed for various water transfer applications, including shallow well water extraction, lawn sprinkler systems, and garden irrigation. It features a robust cast iron construction and dual voltage compatibility (115V/230V).

2. SAFETY INFORMATION

WARNING: Read all safety warnings and instructions before operating this pump. Failure to follow the warnings and instructions may result in electric shock, fire, serious injury, or property damage.

- **Electrical Safety:** Ensure the pump is properly grounded. All electrical wiring must comply with local codes and be performed by a qualified electrician. Disconnect power before servicing.
- **Water Safety:** Do not run the pump dry, as this can cause severe damage. Ensure the pump is always primed with water before operation.
- **Pressure Safety:** Do not exceed the maximum operating pressure of the pump. Use appropriate pressure relief valves if necessary.
- **Installation:** Install the pump on a stable, level surface to prevent vibration and movement. Protect the pump from freezing temperatures.
- **Overheat Protection:** The pump includes an integrated automatic overheat protection system. If the pump stops unexpectedly, allow it to cool down before attempting to restart.

3. SETUP

3.1 Unpacking and Inspection

Carefully remove the pump from its packaging. Inspect the pump for any signs of damage that may have occurred during shipping. Report any damage to the supplier immediately.

3.2 Mounting the Pump

Mount the pump on a solid, level, and vibration-free surface. Use appropriate bolts to secure the pump through the mounting holes on its base. Ensure adequate ventilation around the pump motor.

3.3 Electrical Connection and Voltage Selection

The WASSERMANN WAC15-WNDL15/56J pump is designed for dual voltage operation (115V or 230V). The factory default configuration is 230V. To change the voltage, locate the voltage selection switch on the motor housing. Move the switch forward for 115V or push it back for 230V. Ensure the pump is disconnected from power before adjusting the voltage switch.

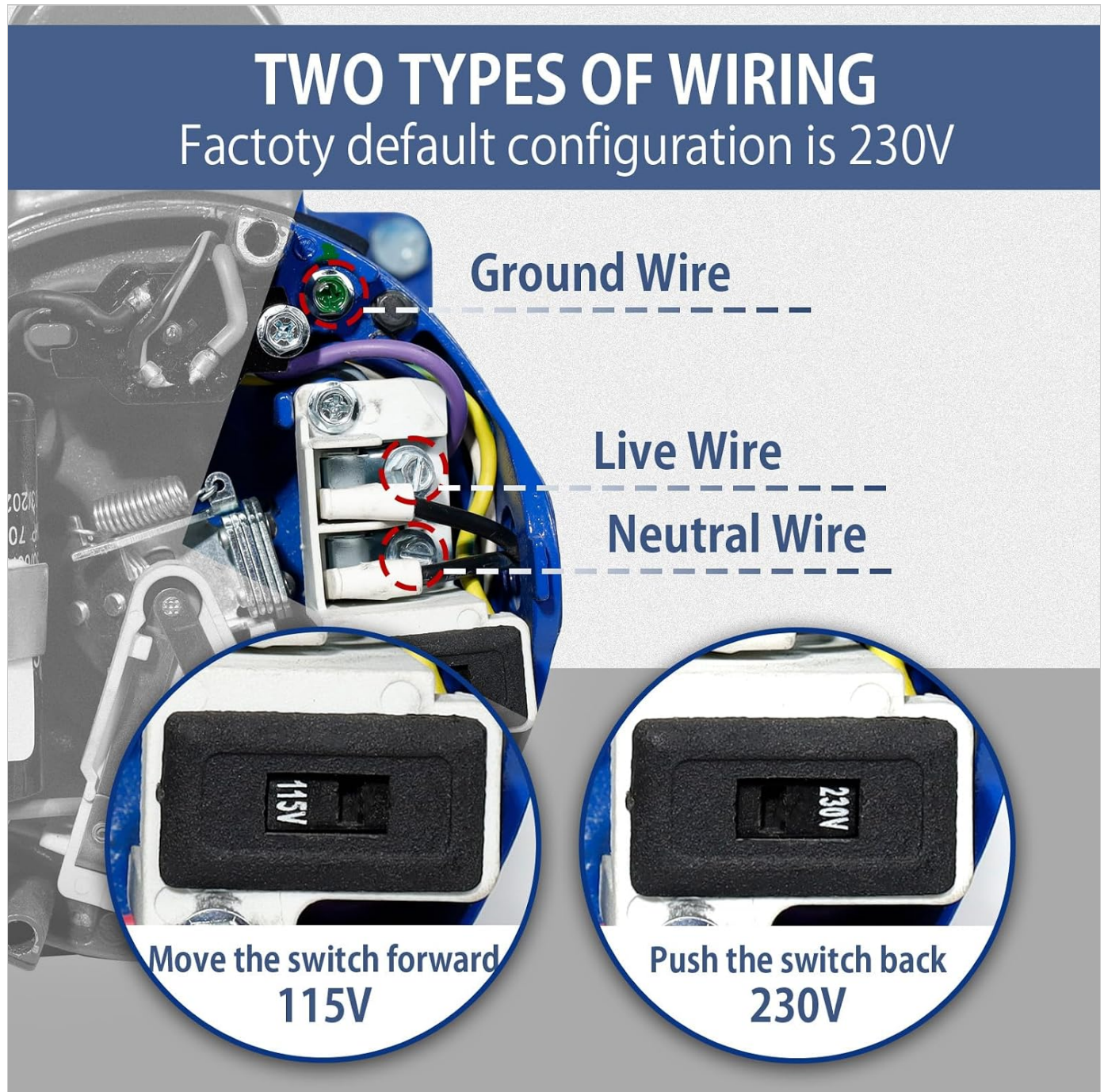


Image: Voltage selection switch for 115V and 230V operation.

Connect the pump to a dedicated electrical circuit with appropriate overcurrent protection. Ensure proper grounding of the pump and motor. Refer to the recommended minimum wire size table below for correct wire gauge based on distance and voltage.

RECOMMENDED MINIMUM WIRE SIZE

HP	Distance from Service Entrance to Motor							
	50 Ft. (15 m)		100 Ft. (30 m)		150 Ft. (46 m)		200 Ft. (61 m)	
	115 V	230 V	115 V	230 V	115 V	230 V	115 V	230 V
3/4	12AWG	14AWG	10AWG	14AWG	8AWG	14AWG	6AWG	12AWG
1	12AWG	14AWG	8AWG	14AWG	8AWG	12AWG	6AWG	12AWG
★ 1 1/2	10AWG	14AWG	8AWG	14AWG	/	12AWG	/	10AWG
2	10AWG	14AWG	8AWG	14AWG	/	12AWG	/	10AWG
3	/	12AWG	/	12AWG	/	10AWG	/	10AWG



WARNING:

PLEASE INSURE THAT PERMANENTLY GROUND THE PUMP, MOTOR AND CONTROLS BEFORE CONNECTING TO ELECTRICAL POWER.

Image: Recommended minimum wire size chart.

3.4 Plumbing Connections

The pump features 1-1/2 inch NPT suction and discharge ports. Use appropriate pipe fittings and ensure all connections are airtight, especially on the suction side, to prevent air leaks that can affect pump performance. A foot valve or check valve on the suction line is recommended to maintain prime.



1-1/2 HP

SHALLOW WELL JET PUMP



Image: Key components and port sizes of the centrifugal pump.

3.5 Priming the Pump

Before initial startup or after the pump has been drained, it is essential to prime the pump. Remove the priming plug (if present) or fill the pump casing through the discharge port until the casing is full of water. Replace the plug securely. This self-priming pump will then draw water more efficiently.

4. OPERATING INSTRUCTIONS

4.1 Starting the Pump

After ensuring the pump is properly primed and all connections are secure, apply power to the pump. The pump should start and begin to move water. Monitor the system for any unusual noises or vibrations.

4.2 Performance Overview

The WASSERMANN WAC15-WNDL15/56J pump delivers a maximum flow rate of 66 GPM and a maximum head of 126

feet. The maximum suction head is 25 feet. Performance will vary based on system resistance and elevation.

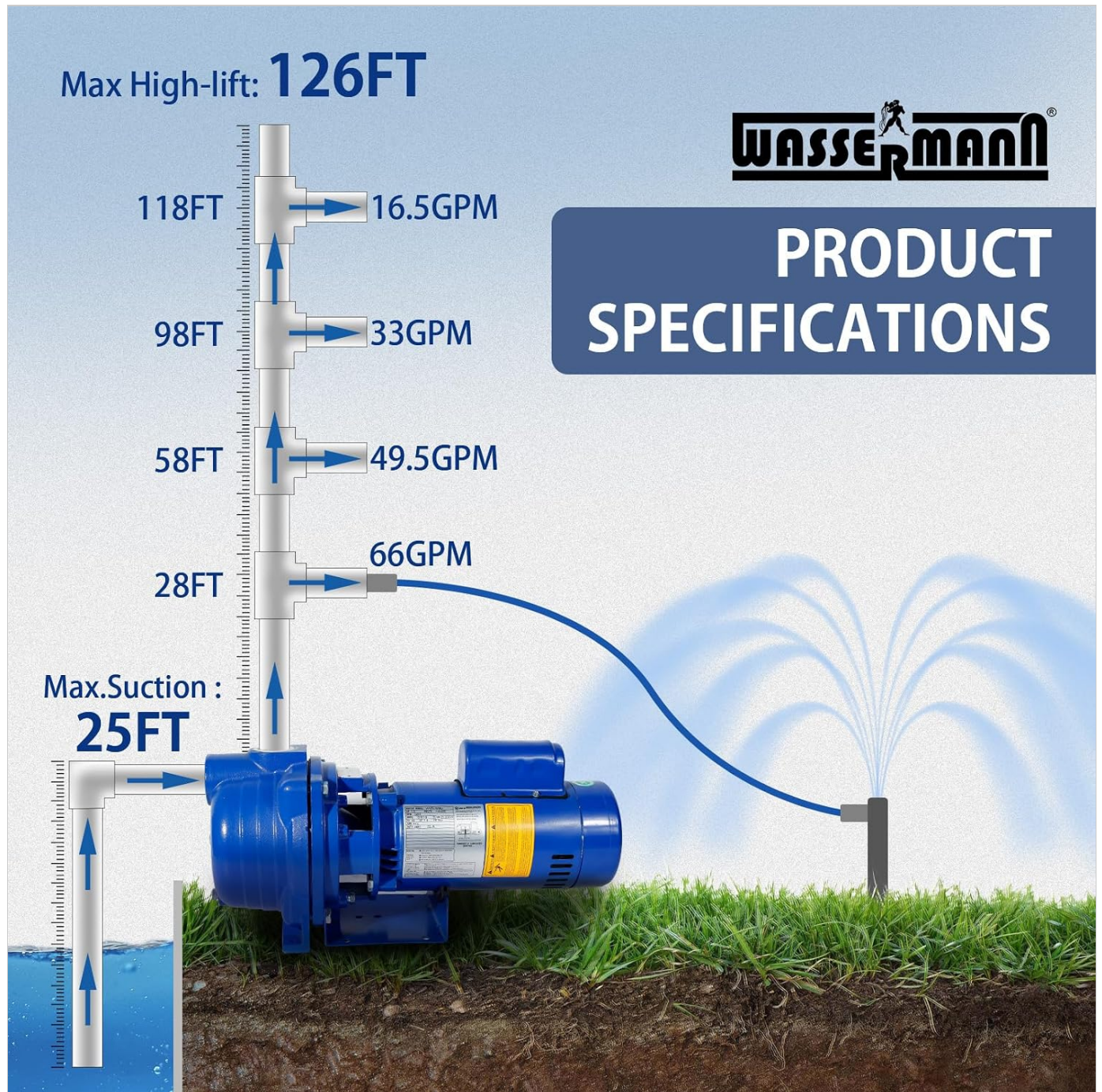


Image: Product specifications and performance diagram.

4.3 Automatic Overheat Protection

The pump is equipped with an automatic overheat protection system. If the motor temperature becomes excessive, the pump will automatically shut off to prevent damage. Allow the pump to cool down before attempting to restart. Identify and resolve the cause of overheating before resuming operation.

Temperature Sensing Automatic Overload Stop

THERMO
STOP



AUTO
STOP



Image: Temperature sensing automatic overload stop feature.

4.4 Application Scenarios

This pump is suitable for a wide range of applications, including:

- Shallow well pumping
- Garden irrigation
- Lawn sprinkler systems
- General water supply

WIDE APPLICATION SCENARIOS



Image: Wide application scenarios for the pump.

5. MAINTENANCE

5.1 Regular Inspection

Periodically inspect the pump for any signs of wear, leaks, or corrosion. Check electrical connections for tightness and ensure the power cord is undamaged. Listen for unusual noises during operation, which may indicate a problem.

5.2 Winterization

In areas subject to freezing temperatures, the pump must be drained to prevent damage. Locate the drain hole on the pump casing (refer to Section 3.4, Plumbing Connections image) and remove the plug to allow all water to exit the pump. Store the pump in a dry, frost-free location if possible, or ensure it is completely drained and protected from freezing.

5.3 Cleaning

Keep the exterior of the pump clean and free from debris. Ensure ventilation openings on the motor are not obstructed.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Pump does not start	No power; Incorrect voltage setting; Motor overload.	Check power supply and circuit breaker; Verify voltage switch position (115V/230V); Allow motor to cool if overheated.
Pump runs but no water/low pressure	Pump not primed; Air leak in suction line; Clogged intake; Low water level in source.	Prime the pump; Check all suction line connections for leaks; Clear any blockages; Ensure adequate water supply.
Pump cycles frequently	System leak; Pressure tank issue (if applicable).	Inspect entire plumbing system for leaks; Check pressure tank air charge and diaphragm.
Excessive noise or vibration	Loose mounting; Cavitation (air in pump); Worn bearings.	Tighten mounting bolts; Ensure pump is fully primed and suction line is airtight; Contact customer support for internal issues.
Pump overheats and shuts off	Lack of water flow; Motor overload; Insufficient ventilation.	Ensure continuous water flow; Check for blockages in plumbing; Ensure adequate airflow around motor; Allow to cool before restarting.

7. SPECIFICATIONS

Feature	Specification
Brand	wassermann
Model Number	WAC15-WNDL15/56J
Horsepower	1.5 HP
Voltage	115 Volts, 230 Volts
Maximum Flow Rate	66 Gallons Per Minute (GPM)
Maximum Lifting Height	126 Feet
Material	BUNA Elastomers, Cast Iron, Stainless Steel, Carbon, Ceramic
Product Dimensions (L x W x H)	13"L x 10"W x 22"H
Power Source	Corded Electric
Specific Uses	Garden Irrigation, Lawn Sprinkler

8. WARRANTY INFORMATION

The WASSERMANN WAC15-WNDL15/56J Centrifugal Pump comes with a**2-year manufacturer's warranty**. This warranty covers defects in materials and workmanship under normal use. For warranty claims or service, please contact WASSERMANN customer support with your proof of purchase.

9. CUSTOMER SUPPORT

For any questions, technical assistance, or support regarding your WASSERMANN Centrifugal Pump, please contact our customer service team. Have your model number and purchase information ready for faster service.



Image: WASSERMANN Customer Service information.

9.1 Product Video Overview

Watch this video for an overview of the WASSERMANN 1.5 HP Centrifugal Pump, including unboxing and initial setup insights.

Your browser does not support the video tag.

Video: Heavy Duty 1.5HP Pump Review & Unboxing by Reviews & Unboxing by Neal.

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