

FOTING JGP110037C

FOTING 1.5HP Shallow Well Pump with Pressure Tank Instruction Manual

Model: JGP110037C

1. INTRODUCTION

This instruction manual provides essential information for the safe and efficient operation, installation, and maintenance of your FOTING 1.5HP Shallow Well Pump with Pressure Tank, Model JGP110037C. Please read this manual thoroughly before using the pump to ensure proper function and to prevent injury or damage. Keep this manual for future reference.



Figure 1: FOTING 1.5HP Shallow Well Pump with Pressure Tank

2. SAFETY INFORMATION

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

- **Electrical Safety:** Ensure the pump is connected to a properly grounded 115V, 60Hz power supply. Do not operate with damaged cords or plugs. Avoid using extension cords if possible; if necessary, use a heavy-duty outdoor-rated cord.
- **Water Safety:** Do not pump flammable or corrosive liquids. Ensure the pump is not operated dry (without water), as this can cause severe damage.
- **Personal Safety:** Wear appropriate personal protective equipment (PPE) such as safety glasses and gloves during installation and maintenance. Keep children and unauthorized persons away from the operating pump.
- **Installation:** Install the pump in a well-ventilated area, protected from direct sunlight and freezing temperatures. Ensure all connections are secure and leak-free.

- **Maintenance:** Disconnect power before performing any maintenance or service.

3. PRODUCT OVERVIEW

The FOTING 1.5HP Shallow Well Pump with Pressure Tank is designed for efficient water boosting and irrigation applications. It features a powerful motor, a durable pressure tank, and automatic operation capabilities.

Key Features:

- **Powerful Motor:** 1.5HP motor with a maximum flow rate of 1340 GPH and a maximum lift of 164 feet.
- **High Suction Capability:** Capable of suctioning water from depths up to 23 feet.
- **Integrated Pressure Tank:** 5-gallon pressure tank with a pre-set pressure range for automatic operation.
- **Automatic Operation:** Features a mechanical pressure switch that automatically starts the pump at 1.5 bar and shuts it off at 3 bar.
- **Durable Construction:** Reinforced thermoplastic structure and a finely finished iron tank for corrosion and wear resistance.
- **Safety Features:** Equipped with overheat protection to prevent motor burnout and a durable carbon ceramic mechanical seal to prevent water leakage.
- **Versatile Connections:** 1" NPT outlet and inlet, includes 2 adapters for NPT 1" to GHT 3/4" connections.

PRODUCT DETAILS

Output power

1.5HP

1"NPT Outlet

1"NPT Intake

Start Waterproof
Cover

High Pressure
Soft Tube

Pressure Gauge

Mechanical
Pressure Switch

5-Gal Pressure Tank



NPT1" to GHT3/4"

Stable Base

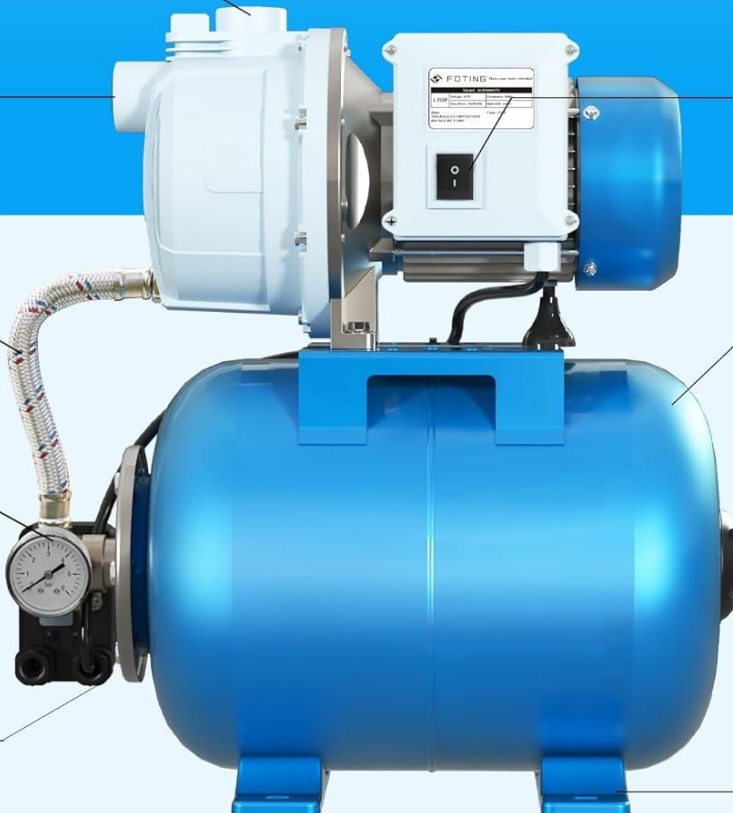


Figure 2: Detailed view of pump components including 1" NPT Outlet, 1" NPT Intake, Start Waterproof Cover, 5-Gal Pressure Tank, High Pressure Soft Tube, Pressure Gauge, Mechanical Pressure Switch, and Stable Base.

WATER METHODS



WATER TAPS



SELF-PRIMMING



Connector Size
NPT 1" to GHT 3/4"



Protection Type
IP54



(Water Hose Not Included)

Figure 3: Key performance specifications and protection features.

SHALLOW WELL PUMP WITH PRESSURE TANK



Max. Suction Lift
23FT



Max. Height
164FT



Protection Type
IPX4



Overheat
Protection



Figure 4: Details of the pressure gauge, mechanical pressure switch, and thermal overload protection.

4. SETUP AND INSTALLATION

4.1 Unpacking

Carefully remove all components from the packaging. Inspect for any damage that may have occurred during shipping. Ensure all parts listed in the packing list are present.

4.2 Location

Place the pump on a stable, level surface. The location should be protected from moisture, direct sunlight, and freezing temperatures. Ensure adequate ventilation around the motor.

4.3 Plumbing Connections

1. Connect the suction line to the 1" NPT intake port of the pump. Ensure a tight, leak-free connection.
2. Connect the discharge line to the 1" NPT outlet port. Use the provided NPT 1" to GHT 3/4" adapters if connecting to

a standard garden hose.

3. It is recommended to install a check valve on the suction line to prevent water from flowing back into the well or source, especially for self-priming applications.
4. Ensure all pipes and fittings are compatible with the intended water pressure and temperature.

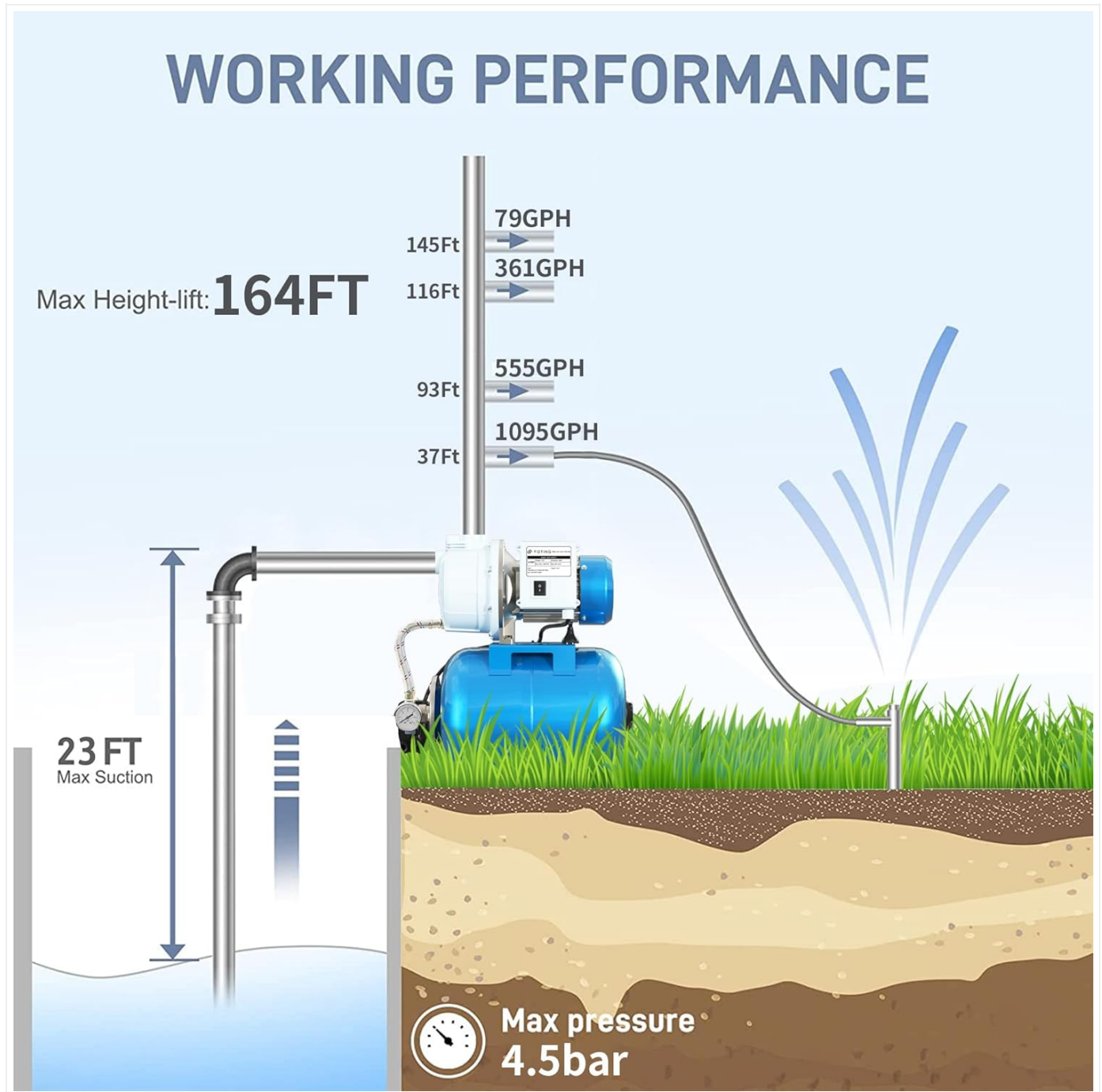


Figure 5: Connection options for water taps and self-priming setups.

4.4 Priming the Pump

Before first use, the pump must be primed.

1. Locate the priming plug on the top of the pump housing.
2. Remove the priming plug and slowly fill the pump casing with water until it overflows.
3. Replace the priming plug securely.
4. Ensure the suction line is fully submerged in the water source.

4.5 Electrical Connection

Connect the pump to a standard 115V, 60Hz grounded electrical outlet. Ensure the power switch on the pump is in the "OFF" position before plugging it in.

5. OPERATING INSTRUCTIONS

5.1 Starting the Pump

1. Ensure the pump has been properly primed (see Section 4.4).
2. Turn the power switch to the "ON" position. The pump will start to draw water.
3. Observe the pressure gauge. The pump's mechanical pressure switch is set to automatically start when pressure drops below 1.5 bar and shut off when it reaches 3 bar. The maximum pressure the tank can hold is 4.5 bar.
4. Allow the pump to run until a steady flow of water is achieved and the pressure stabilizes.

5.2 Applications

This pump is suitable for various applications including:

- Garden and lawn irrigation.
- Agricultural structures and small farms.
- Domestic water supply for homes and cabins.
- Pipe pressurization and water transfer.

GARDEN IRRIGATION PUMP

Max. height 164ft
Max. suction height 23ft

MAX
1340
GPH



Figure 6: Pump in use for garden irrigation.



Figure 7: Versatile applications of the FOTING pump.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your FOTING pump. Always disconnect power before performing any maintenance.

6.1 General Cleaning

- Keep the pump exterior clean and free from debris.
- Ensure ventilation openings are not blocked to prevent overheating.

6.2 Winterization (for cold climates)

If the pump is exposed to freezing temperatures, it must be drained to prevent damage.

1. Disconnect the pump from the power supply.
2. Drain all water from the pump casing and pressure tank by opening drain plugs and disconnecting pipes.

3. Store the pump in a warm, dry place during winter months.

6.3 Mechanical Seal

The pump is equipped with a durable carbon ceramic mechanical seal designed to prevent water leakage and extend service life. If leakage occurs around the shaft, inspect the seal for wear or damage and replace if necessary.

7. TROUBLESHOOTING

Refer to the table below for common issues and their solutions. If the problem persists, contact FOTING customer service.

Problem	Possible Cause	Solution
Pump does not start.	No power; tripped circuit breaker; faulty switch; motor overload.	Check power connection; reset breaker; inspect switch; allow motor to cool if overheat protection activated.
Pump runs but no water or low flow.	Pump not primed; air leak in suction line; clogged intake; low water source.	Re-prime the pump; check suction line for leaks; clear intake; ensure adequate water source.
Pump cycles on and off frequently.	Air in pressure tank; pressure switch malfunction; small leak in system; no check valve on suction line.	Check air charge in tank; inspect pressure switch; check for leaks in plumbing; install a check valve on the suction line if not present.
Pump is noisy.	Cavitation (air in water); worn bearings; foreign object in impeller.	Ensure pump is fully primed and suction line is sealed; inspect impeller for obstructions; contact service if bearings are suspected.
Water leakage.	Loose connections; damaged mechanical seal; cracked housing.	Tighten all connections; inspect and replace mechanical seal if damaged; contact service for housing damage.

8. SPECIFICATIONS

Attribute	Value
Brand	FOTING
Model Number	JGP110037C
Power	1.5 HP
Voltage	115 Volts
Frequency	60 Hz
Max Flow Rate	1340 GPH
Max Lift (Head)	164 Feet
Max Suction Lift	23 Feet
Pressure Tank Capacity	5 Gallons
Automatic Pressure Switch On	< 1.5 bar
Automatic Pressure Switch Off	> 3.0 bar

Attribute	Value
Max Pressure (Tank)	4.5 bar
Inlet/Outlet Size	1" NPT
Material	Plastic, Metal
Product Dimensions (L x W x H)	17" x 10.5" x 20"
Item Weight	33.7 pounds
Protection Type	IPX4
Max Fluid Temperature	95°F

PRESSURE GAUGE

The built-in pressure gauge allows for real-time observation of the situation inside the tank.



MECHANICAL PRESSURE SWITCH

Auto On <1.5bar

Auto Off >3.0bar

THERMAL OVERLOAD PROTECTION

Ensuring utmost safety, the thermal overload protection feature automatically shuts off the pump when it detects dry running, providing peace of mind.



Figure 8: Pump working performance chart.

9. WARRANTY AND CUSTOMER SUPPORT

FOTING is committed to providing high-quality products and excellent customer service.

9.1 Warranty Information

Specific warranty details may vary. Please refer to the product packaging or contact FOTING customer service for comprehensive warranty information regarding your 1.5HP Shallow Well Pump with Pressure Tank.

9.2 Customer Support

For technical support, troubleshooting assistance, or any inquiries regarding your FOTING product, please contact our customer service team. Our professionals are available to provide support and ensure your water system remains stable. You can find contact information on the official FOTING website or through your purchase platform.

