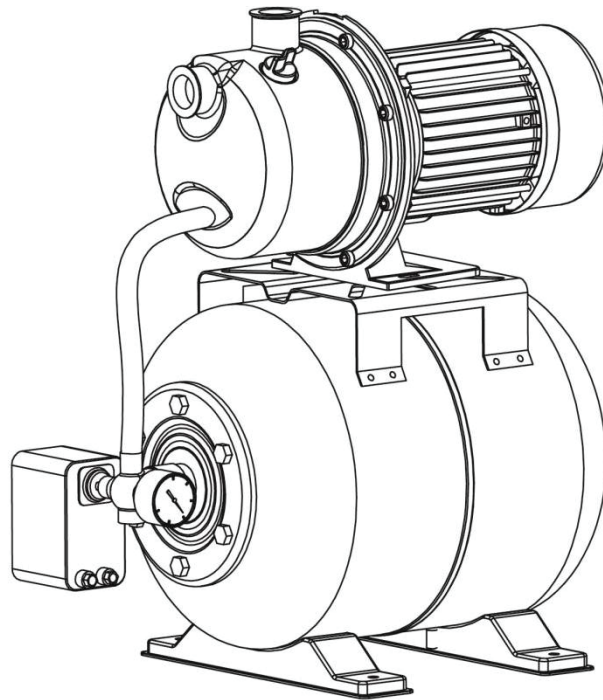




GARDEN IRRIGATION SHALLOW WELL PUMP

1320 GPH 1.6 HP W/ PRESSURE TANK

SKU: 71043



ASSEMBLY AND USER'S GUIDE

IMPORTANT:

This Pump Has Been Evaluated for Use With Water Only

WARNING - "Risk of electric shock - This pump is supplied with a grounding conductor and grounding type attachment plug. To reduce the risk of electric shock, be certain that it is connected only to properly grounded, grounding-type receptacle".

71043

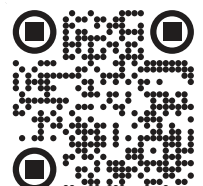


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IMPORTANT SAFETY INSTRUCTIONS

IMPORTANT SAFETY INSTRUCTIONS

This guide provides instructions for installing and using the pump. If you have any questions about the equipment, please contact XtremepowerUS.

This guide contains important information about safely installing and operating this product. After installation, make sure to share this information with the owner/operator or leave it with them for their reference.

Legends and Symbols

When you come across the safety-alert symbol on your equipment or in this manual, pay attention to the following signal words and remain vigilant about the potential for personal injury.

⚠ DANGER **DANGER:** Ignoring these hazards can result in death, severe personal injury, or significant property damage.

⚠ WARNING **WARNING:** Indicates potential hazards that can result in severe personal injury, death, or significant property damage. Ignoring these warnings presents a real danger.

⚠ CAUTION **CAUTION:** Indicates potential hazards that can result in minor or moderate personal injury, property damage, or actions that are unpredictable and unsafe. Ignoring these cautions presents a potential hazard.

★ NOTE **NOTICE:** This label indicates important special instructions that are not directly related to hazards.

USE OF NON-XTREMEPOWERUS REPLACEMENT PARTS VOIDS WARRANTY

ATTENTION INSTALLER: This manual contains vital information regarding the installation, operation, and safe use of this pump. It is essential to provide this manual to the end user of the product. Failure to read and follow all instructions could lead to severe injuries.

⚠ DANGER Failure to comply with all instructions and warnings may lead to severe bodily injury or even death. This pump must be installed and serviced exclusively by a qualified service professional. Prior to using this pump, installers, operators, and owners must carefully review these warnings and all instructions provided in the owner's manual. It is essential to leave these warnings and the owner's manual with the owner for their reference and safety.

⚠ WARNING For safety reasons, children should not be allowed to use this product. Packing materials and plastic bags are not toys. Keep them away from children to prevent the risk of suffocation.

IMPORTANT SAFETY INSTRUCTIONS

WARNING

Electrical Safet:

- Wiring and electrical connections must be performed by a licensed electrician.
- Install the pump and electrical components above the water level for indoor use to reduce the risk of electrical shock.
- Keep the motor area as dry as possible and avoid washing or immersing the motor.
- Connect the pump directly to a grounded GFCI outlet.
- To reduce the risk of electrical shock, ensure the motor is grounded, and the terminal cover is securely bolted in place.
- Do not ground the pump to a gas line.
- Always disconnect power before servicing.
- Please note that this pump is not suitable for use in swimming pool areas.

WARNING

Grounding:

- The pump must be grounded during operation to protect against electrical shock. It comes with an electric cord featuring an equipment-grounding conductor and grounding plug.

WARNING

Safety:

- This electrical garden pump with press control is suitable for outdoor use, such as in the garden.
- This pump is exclusively designed for residential use and is not intended for professional or commercial purposes.

NOTE

Usage Guidelines:

- This water pump is not equipped with water-sprinkling protection and should only be used in a dry environment. Do not use it in rainy or humid conditions.
- Do not use this water pump with flammable or harmful liquids.
- Avoid idle operation of the water pump.
- This water pump is designed for clean water applications, including garden irrigation, household water supply, and garden or farmland sprinkling.
- Do not expose the pump to impurities like sand, stones, or sticky substances, as these may damage the pump. Never use this pump for conveying drinking water.
- To prevent dry suction and potential pump damage, the machine includes an automatic shutdown feature in case of insufficient water supply.

OVERVIEW (PRODUCT INFORMATION)

OVERVIEW (PRODUCT INFORMATION)

PRODUCT INTRODUCTION

This versatile shallow well jet pump is ideal for a range of freshwater supply needs, including rural homes, cabins, farms, and more. It's designed for installations where the vertical distance from the pump to the water level doesn't exceed 26 FT. The pump features a 1 INCH NPT discharge and 1 INCH NPT suction, and it should not be used with saltwater, brine, or liquids containing caustic chemicals or foreign materials.

Common Applications:

- Watering and irrigating green areas, vegetable beds, and gardens.
- Operating lawn sprinklers.
- Utilizing a pre-filter (not included) to draw water from ponds, streams, rainwater barrels, rainwater cisterns, and wells.

NOTE

This pump is equipped with essential components such as a pressure tank, pressure switch, and more, enabling automatic operation.

Key Features of the Automatic Pump:

- The pump operates automatically when the power is on, and you open a water tap.
- When you turn off the water tap, the pump stops automatically.
- It initiates automatic start at 21.7 PSI (1.5 BAR) and automatic stop at 43.5 PSI (3.0 BAR).

Benefits of Using a Pressure Tank:

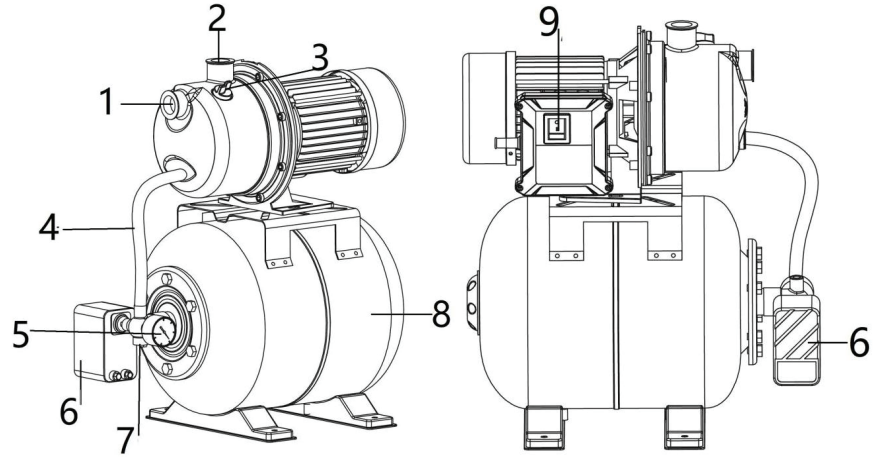
The pressure tank serves multiple purposes, enhancing the efficiency of your water supply system:

- Maintains controlled water pressure, reducing the pump's switching frequency during low water consumption or in case of leakage.
- Enhances system comfort by compensating for pressure drops when a tap is opened.
- Minimizes issues related to water hammer in the pipework.

OVERVIEW (PRODUCT INFORMATION)

PRODUCT OVERVIEW

Item	Description
1	Suction Inlet 1 INCH NPT
2	Discharge 1 INCH NPT
3	Prime Cap Screw
4	Pressure Hose
5	Pressure Gauge
6	Automatic Pressure Switch
7	Drain Cap Screw
8	Pressure Tank
9	Power Switch



SPECIFICATIONS

Model	71043
Voltage	115 V ~ 60 HZ
Power	1.6 HP
Amps	10 A
Max. Lift	157 FT
Max. Suction Height	26 FT
Max. Flow	1320 GPH
Max Pressure	5.0 BAR (72.5 PSI)
Pressure Switch	3.0 BAR (43.5 PSI) Auto-Off, 1.5 BAR (21.7 (PSI) Auto-On
Pressure Tank Capacity	5 GAL
Pressure Tank Material	Carbon Steel
Inlet Size	1 INCH NPT
Discharge Size	1 INCH NPT
Max. Water Temperature	95 °F
Waterproof Class	IPX 4

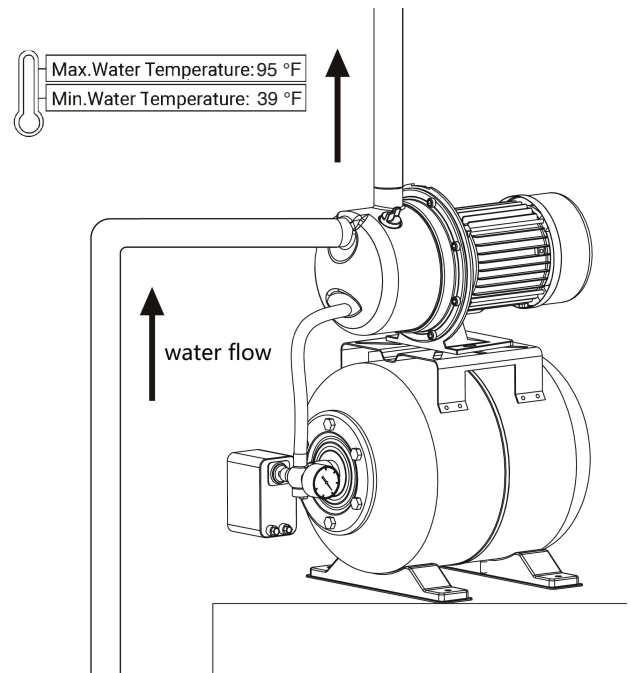
Max. Head FT	GPH of Water @ Total FT Of Head				Discharge NPT (INCH)
	0 FT	50 FT	100 FT	150 FT	
157 FT	1320	1020	600	154	1 INCH NPT

INSTALLATION & OPERATION

INSTALLATION & OPERATION

PIPING

- Place the pump on a sturdy, level platform above the water level for support.
- Keep the inlet pipeline short with minimal bends. For outdoor installations, provide weatherproof protection.
- Install a check valve on the INLET PIPE to maintain stable pressure.
- Attach a screen or filter (not included) to the intake and discharge ports to prevent debris from damaging the pump.



BEFORE OPERATION

! WARNING

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- Keep the inlet pipeline short with minimal bends. For outdoor installations, provide weatherproof protection.
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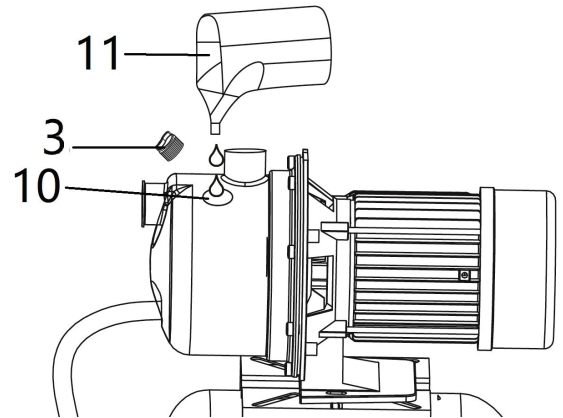
INSTALLATION & OPERATION

PRIMING

⚠ WARNING

The pump must be filled with water before operation. Running the pump dry will cause damage to the shaft seal and void the warranty.

- Ensure the suction line is properly connected to prevent water from escaping the suction inlet (3).
- If a service line is present, open the discharge (drain) valve. If not, open a tap to allow air in the suction line to escape freely.
- Remove the priming valve inlet's cap screw.
- Fill the pump with water through the priming plug's opening until water begins to flow out.



⚠ WARNING

If water leaks from the drain valve beneath the pump, close it securely and refill the unit.

- Reattach and tighten the cap screw on the priming valve inlet.

Item	Description
3	Prime Cap Screw
10	Priming Valve Inlet
11	Clear Water

⚠ WARNING

Upon restart, the pump will immediately function as water remains in the pump housing and hose. If no non-return valve is installed or the valve-to-hose seal is faulty (check hose clip), the unit may run dry, requiring a refill for proper operation.

OPERATING

After filling the priming water, plug the power cord into a GFCI-protected electrical outlet and switch the power to the ON position.

- Start the pump and let it run for 1.5 - 2 minutes. It should continuously pump water. If not, repeat the "PRIMING" steps above.
- During initial startup, you may need to repeat the priming procedure multiple times to ensure there's no air in the pump and suction lines. The number of cycles depends on the suction line length, typically ranging from 3 to 6 times.
- If the unit still doesn't pump water after 6 priming cycles, turn it off and inspect the system for leaks.

TROUBLE SHOOTING

ISSUE	CASE	CORRECTIVE ACTION
The electric motor runs, but the pump doesn't draw water.	The pump is not fully filled with water after starting.	Ensure the pump is completely filled with water.
	During suction, the water level decreases due to the opening of the water discharge port on the pressure side.	When restarting the pump, raise the pressure side pipe to 3 FT vertically from the pump and maintain this distance until the pump begins to draw in water.
	Suction pipe not tightly secured.	Check pump fittings, including the suction pipe connector, high-pressure pipe connector, clamping ring, suction pipeline, and seals made of PTFE or hemp fiber. Proper suction only occurs under vacuum conditions.
	Blockage of the filter screen at the bottom valve on the suction port.	Clean the filter screen and bottom valve at the suction port.
	Air remains trapped in the pressure pipe due to the closure of the water discharge port.	During pump suction, open the water discharge port (tap or nozzle).
	Failure to deliver within the expected timeframe.	Ensure the entire suction pipeline is filled with water or recheck after a minimum of 7 minutes from pump start.
	Excessive suction height (Over 26 FT).	Reduce the suction height (maximum 26 FT).
	Bottom valve fails to draw liquid.	Check the water level in the well or pond, or consider extending the suction pipeline if feasible.
Motor Fails to Run.	Power supply not connected.	Check voltage supply.
	Impeller seized by fan guard.	Unplug power, remove fan guard with a screwdriver, replace the guard, and gently rotate the impeller to ensure free movement.
	Impeller seized.	Unplug power, remove fan guard, and manually rotate the motor shaft to drive the impeller. If the shaft is seized, send the pump to an after-sales center for inspection.

TROUBLE SHOOTING

ISSUE	CASE	CORRECTIVE ACTION
Insufficient Water Delivery.	Suction height exceeds 8m.	Verify suction height.
	Blockage of filter screen on the bottom valve.	Clean the filter screen.
	Water level for suction is too low.	Submerge the bottom valve in deeper water.
	Pump efficiency affected by foreign material.	Clean the pump's spiral case, suction pipe, and outlet pressure pipe with pressurized water or send the pump to an after-sales service center for inspection (consider adding a pre-filter).
Closing of Pump Due to Thermal Switch.	Motor overload caused by friction from foreign matter.	Clean the spiral case with pressurized water or send the pump to an after-sales service center for inspection.
Frequent On/Off Switching of Pump (In WW and Automatic State).	No non-return valve fixed in the suction pipeline.	Check for the presence of a bottom valve and intermediate valve in the suction pipeline.
Frequent Pump Cycling in Household Water-Supply System.	Damage to the rubber bag in the oil tank.	Replace the damaged rubber bag or container.
	Lack of compressed air in the container.	Add compressed air to the container using the appropriate valve until reaching an air pressure of 1.5 BAR (21.7 PSI).

MAINTENANCE

MOTOR PROTECTION

⚠ WARNING

- Prevent water from entering the motor.
- Avoid spraying or cleaning the product with running water to prevent electric shock and damage.

WEARABLE PARTS

★ NOTE

- The seals, pre-filter, flow sensor wheel, and non-return valve are subject to natural wear.
- Some wearable parts may not be included in the package.

CLEANING

⚠ WARNING

- Periodically clean the product with a damp cloth and mild soap.
- Avoid using cleaning products or solvents as they can harm plastic components.

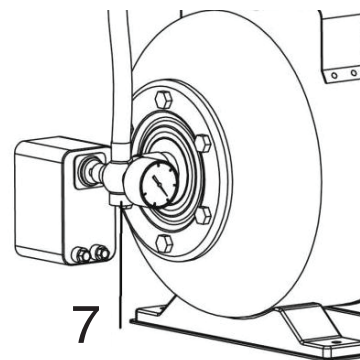
STORAGE

⚠ WARNING

- Store the pump in a dry place to prevent flooding and excess moisture.

Winter Draining:

- Disconnect suction and discharge lines.
- Remove the water drain cap screw (7) from the pump, allowing time for drainage before reinstallation.
- Drain piping below the frost line or store it indoors.
- Store the pump indoors.
- Always disconnect the power plug before any equipment work.



ADDITIONAL TIPS

WARNING

- Avoid exposing the pump to rain, humidity, dirt, or freezing conditions.
- Prevent freezing, idling, or blockage by impurities.
- In case of power cable damage, seek professional replacement, as short-circuit damage is not covered by the warranty.
- For pump issues, consult an authorized maintenance center.
- Do not use solvents like petrol, alcohol, or ammonia water, as they can damage plastic parts.

DISPOSAL

ENVIRONMENTALLY RESPONSIBLE DISPOSAL



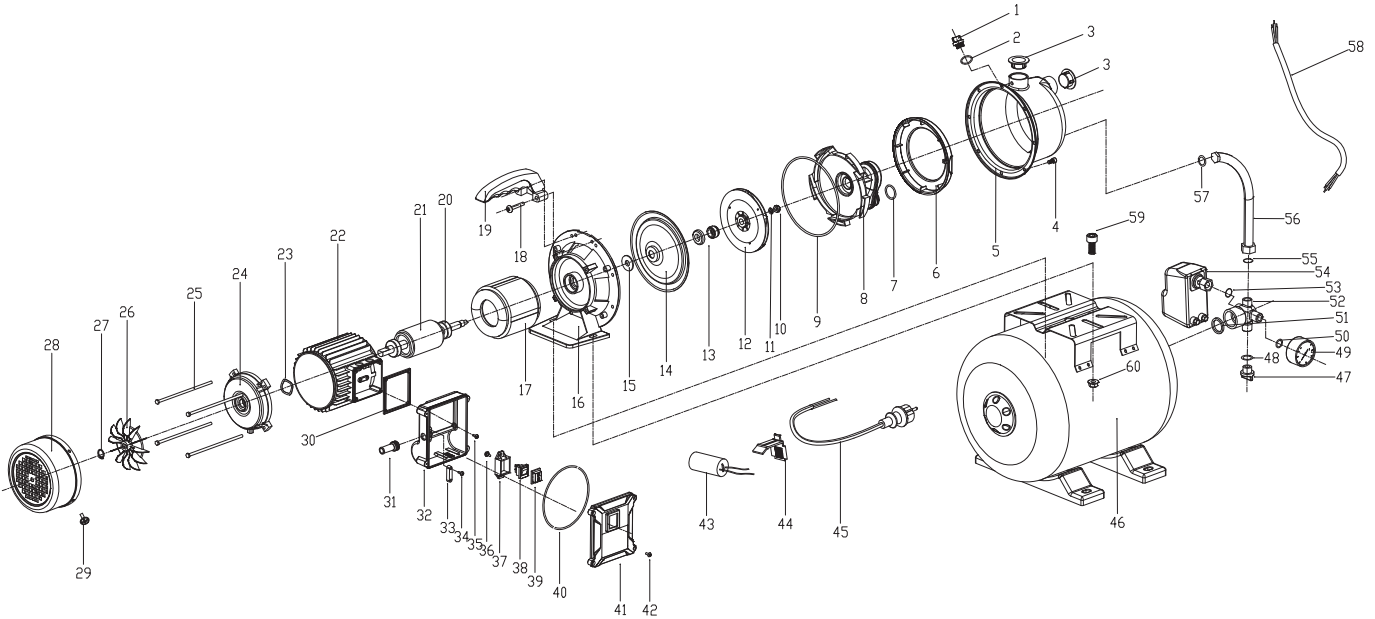
★ NOTE

- When replacing your appliance, don't discard it with household waste. Dispose of it in an environmentally safe manner. Electrical waste requires special handling and recycling, not standard disposal. Use recycling facilities where available, or consult your Local Authority or retailer for guidance.
- For power tools and packaging, prioritize environmentally-friendly recycling. Never dispose of power tools as regular household waste. Utilize designated collection points for recycling. Contact your local authority for recycling information.

REPLACEMENT PARTS

REPLACEMENT PARTS

PARTS DIAGRAM



Item	Description	Qty
1	Screw Cover	1
2	O-Ring	1
3	Plastic Cover	2
4	Screw	8
5	Pump Head-Ss	1
6	Plastic Cover Ring	1
7	O-Ring	1
8	Diffuser	1
9	O-Ring	1
10	Screw Nut	1
11	Gasket	1
12	Impeller	1
13	Mechanical Seal	1
14	SS-Flange	1
15	Swing Ring	1
16	Bracket	1
17	Stator	1
18	Handle Screw	2
19	Handle	1
20	Bearing	2

Item	Description	Qty
21	Rotor	1
22	Main Body	1
23	Wave Gasket	1
24	Motor Back Cover	1
25	Body Screw	4
26	Fan	1
27	Clamp Spring	1
28	Fan Cover	1
29	Screw	4
30	Rubber Seal	1
31	Cable Bracket	1
32	Switch Box-Basic	1
33	Cable Buckle	1
34	Screw	2
35	Screw	4
36	Screw& Gasket	2
37	Switch Buckle	1
38	Switch	1
39	Switch-Cover	1
40	O-Ring	1

Item	Description	Qty
41	Switch Box-Cover	1
42	Screw	4
43	Capacitance	1
44	Capacitance Buckle	1
45	Cable	1
46	Tank	1
47	Plastic Cover	1
48	O-Ring	1
49	Pressure Gauge	1
50	O-Ring	1
51	Rubber Seal	1
52	Five Trues	1
53	Rubber Seal	1
54	Mechanical Pressure Switch	1
55	Rubber Seal	1
56	High-Pressure Hose	1
57	O-Ring	1
58	Cable	1
59	Screw	2
60	Screw Nut	2

DISCLAIMER

DISCLAIMER

PLEASE READ THE FOLLOWING CAREFULLY

The manufacturer and/or distributor have provided the parts list and assembly diagram in this manual for reference purposes only. They do not make any representation or warranty to the buyer that they are qualified to make repairs to the product or replace any parts of the product. In fact, the manufacturer and/or distributor expressly state that all repairs and parts replacements should be undertaken by certified and licensed technicians, and not by the buyer.

The buyer assumes all risk and liability arising from their repairs to the original product or replacement parts or arising from their installation of replacement parts. It is strongly advised that qualified professionals handle any repairs or replacements to ensure safety and proper functioning of the product. Improper installation and operation may result in injury, property damage, or voiding of warranty. The manufacturer and/or distributor shall not be held responsible for any accidents, damages, or malfunctions resulting from the buyer's installation and operation of the product. It is essential to follow all safety guidelines and recommendations provided in this manual and to seek professional assistance if unsure about the installation or operation procedures.

CUSTOMER SERVICE

If you have any questions about ordering our pool pumps and replacement parts or pool products, please feel free to contact us using the following contact information:

Customer Service and Technical Support

Phone: (909) 628-0880

Email: customer@xtremepowerusa.com

Hours of Operation: Monday – Friday, 9AM – 4PM (CST)
