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BJM Pumps R400D-115

BJM Pumps R400D-115 Submersible Dewatering Pump Instruction Manual

Model: R400D-115

1. Introduction

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your BJM Pumps R400D-115 Submersible Dewatering Pump. Please read these instructions thoroughly before operating the pump to ensure proper function and to prevent injury or damage.
The R400D-115 is a robust 0.5 HP submersible pump designed for dewatering applications, capable of pumping water down to 1/12 inch. It features a durable 304 stainless steel motor housing and a 2-inch top discharge.

2. Safety Information

WARNING: Failure to follow these safety instructions could result in electric shock, fire, serious injury, or death.

- Always disconnect power to the pump before performing any maintenance, inspection, or service.
- Ensure the electrical supply matches the pump's voltage (115 Volts).
- Do not operate the pump with a damaged power cord or plug.
- Never operate the pump in an explosive atmosphere or pump flammable liquids.
- Keep hands and feet clear of the pump intake and discharge openings during operation.
- This pump is designed for water only. Do not use it for chemicals, sewage, or other corrosive liquids.
- Ensure proper grounding of the pump.

3. Product Overview

The BJM Pumps R400D-115 is engineered for efficient dewatering. Key components and features include:

- **Motor Housing:** Constructed from 304 Stainless Steel for corrosion resistance.
- **Discharge:** 2-inch top discharge for easy hose connection.
- **Impeller:** Designed for high flow and handling small solids up to 0.125 inches in diameter.

- **Power Cable:** A 33-foot power cable is provided for extended reach.
- **Mop-up Capability:** Capable of pumping water down to 1/12 inch.



Figure 1: BJM Pumps R400D-115 Submersible Dewatering Pump. This image shows the compact design of the pump with its top discharge port and power cable.

4. Setup

Follow these steps for proper installation of your R400D-115 pump:

1. **Placement:** Position the pump on a firm, level surface in the area to be dewatered. Ensure the pump is fully submerged for optimal cooling during operation.
2. **Discharge Hose Connection:** Connect a suitable 2-inch discharge hose to the pump's top discharge port. Secure the hose with a clamp to prevent leaks and disconnections during operation. Ensure the hose is routed away from the pump and directs water to a safe discharge location.
3. **Electrical Connection:** Plug the pump's 33-foot power cord into a grounded 115 Volt electrical outlet. Ensure the outlet is protected by a Ground Fault Circuit Interrupter (GFCI) for added safety. Do not use extension cords unless absolutely necessary, and if used, ensure they are rated for outdoor use and appropriate amperage.
4. **Inspection:** Before starting, visually inspect the pump and power cord for any signs of damage. Ensure all connections are secure.

5. Operating Instructions

Once the pump is properly set up, follow these steps for operation:

1. **Initial Start-up:** Ensure the pump is fully submerged in water. Plug the pump into the grounded 115V GFCI outlet. The pump will begin to operate immediately.
2. **Monitoring:** Observe the pump's operation. It should run smoothly without excessive noise or vibration. Monitor the discharge flow to ensure water is being removed effectively.
3. **Mop-up Operation:** For dewatering down to 1/12 inch, ensure the pump is placed on a flat surface. The pump will continue to run until the water level is minimal.
4. **Shut Down:** To stop the pump, simply unplug it from the electrical outlet.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your R400D-115 pump.

- **Cleaning:** After each use, especially if pumping dirty water, rinse the pump thoroughly with clean water. Remove any debris that may have accumulated around the intake screen or impeller area.
- **Inspection:** Periodically inspect the power cord for cuts, abrasions, or other damage. Check the discharge port and impeller for blockages. Ensure all fasteners are tight.
- **Storage:** When not in use, store the pump in a clean, dry location, protected from freezing temperatures.

7. Troubleshooting

Refer to the following table for common issues and their solutions:

Problem	Possible Cause	Solution
Pump does not start	No power to the pump Thermal overload tripped Impeller jammed	Check power supply and GFCI Unplug, allow to cool, then restart Disconnect power, clear debris from impeller
Reduced flow or no discharge	Discharge hose kinked or blocked Intake screen blocked Impeller worn or damaged	Check and clear hose Disconnect power, clean intake screen Contact qualified service personnel
Pump runs but does not pump water	Pump not fully submerged Air lock Impeller damaged	Ensure pump is fully in water Tilt pump to release trapped air Contact qualified service personnel
Excessive noise or vibration	Debris in pump Worn bearings Improper installation	Disconnect power, clear debris Contact qualified service personnel Ensure pump is on a stable surface

8. Specifications

Specification	Value
Model	R400D-115
Horsepower (HP)	0.5 HP
Voltage	115 Volts
Rated Amps	6 Amps
RPM	3,450 RPM
Discharge Size	2 inches
Maximum Flow Rate	55 Gallons Per Minute (GPM)
Maximum Head	36 Feet

Specification	Value
Maximum Solids Diameter	0.125 inches
Cable Length	33 feet
Material	304 Stainless Steel (Motor Housing)
Item Weight	33 Pounds
Style	Submersible

9. Warranty and Support

For warranty information, technical support, or replacement parts, please contact BJM Pumps directly or your authorized dealer. Keep your purchase receipt as proof of purchase.
For further assistance, refer to the official BJM Pumps website or contact their customer service department.

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