Myers HJ50D

Myers HJ50D Convertible Deep Water Well Jet Pump User Manual

Model: HJ50D | Brand: Myers

1. Product Overview

The Myers HJ50D is a convertible deep water well jet pump designed for reliable water supply from deep well applications. This 1/2 HP pump operates on either 115V or 230V, providing versatility for various electrical setups. It is engineered for efficient performance in residential and light commercial water systems.

- Deep Water Well Jet Pump functionality.
- 1/2 Horsepower motor for effective water transfer.
- Dual voltage operation: 115V or 230V.

An image showing the Myers HJ50D Convertible Deep Water Well Jet Pump, a green-colored unit with a motor on one end and the pump housing with inlet/outlet ports on the other. This pump is designed for deep well applications.

2. Safety Information

Read and understand all safety instructions before installing, operating, or performing maintenance on this pump. Failure to follow these instructions can result in serious injury, death, or property damage.

- **Electrical Hazard:** Always disconnect power before servicing the pump. Ensure proper grounding and wiring according to local electrical codes.
- **Pressure Hazard:** Water systems operate under pressure. Relieve system pressure before servicing.
- **Moving Parts:** Keep hands and clothing clear of moving parts during operation.
- **Hot Surfaces:** The pump motor can become hot during operation. Allow it to cool before handling.
- **Qualified Personnel:** Installation and electrical connections should only be performed by qualified

personnel.

3. Setup and Installation

3.1 Pre-Installation Checks

- Verify the power supply matches the pump's voltage requirements (115V or 230V).
- Ensure the well casing is clean and free of debris.
- Confirm adequate space for pump installation and future maintenance.

3.2 Mounting the Pump

Mount the pump on a firm, level foundation to minimize vibration. Use appropriate bolts and washers to secure the pump base. Ensure the pump is as close to the well as practical to reduce suction lift.

3.3 Plumbing Connections

1. Connect the suction line from the well to the pump's suction port. Ensure all connections are airtight to prevent air leaks.
2. Connect the discharge line from the pump to the pressure tank and distribution system.
3. Install a check valve in the suction line if not already present in the jet assembly.
4. Install a pressure gauge and pressure switch on the discharge side.

3.4 Electrical Wiring

Wire the pump according to the wiring diagram provided on the motor nameplate and local electrical codes. Ensure the correct voltage selection (115V or 230V) is made before connecting power. The pump must be properly grounded.

3.5 Priming the Pump

Before initial startup, the pump casing and suction line must be completely filled with water. Remove the priming plug, slowly fill the pump with water until it overflows, then replace the plug securely. This process removes air from the pump, allowing it to create suction.

4. Operating Instructions

4.1 Initial Startup

1. Ensure the pump is properly primed as described in Section 3.5.
2. Open a faucet in the system to allow air to escape.
3. Restore power to the pump. The pump should start and begin to draw water.
4. Once a steady stream of water flows from the faucet, close the faucet. The pump will build pressure and shut off when the pressure switch setting is reached.

4.2 Normal Operation

The pump will automatically cycle on and off based on the pressure switch settings, maintaining system pressure as water is used. Monitor the pressure gauge periodically to ensure proper operation.

4.3 Shutting Down the Pump

To temporarily or permanently shut down the pump, disconnect the electrical power supply at the circuit breaker or fuse box. If shutting down for an extended period or for winterization, refer to the maintenance section.

5. Maintenance

Regular maintenance ensures the longevity and efficient operation of your Myers HJ50D pump. Always disconnect power before performing any maintenance.

5.1 Regular Inspection

- Check for leaks around plumbing connections.
- Inspect electrical wiring for signs of wear or damage.
- Listen for unusual noises during operation, which may indicate a problem.
- Verify the pressure switch is operating correctly and maintaining desired pressure.

5.2 Winterization

In areas subject to freezing temperatures, the pump and associated piping must be drained to prevent damage. Disconnect power, open drain plugs on the pump and any exposed piping, and allow all water to drain completely. Store the pump in a warm, dry place if possible, or ensure it is thoroughly drained and protected from freezing.

6. Troubleshooting

This section provides solutions to common operational issues. For problems not listed or if solutions do not resolve the issue, contact a qualified service technician.

Problem	Possible Cause	Solution
Pump does not start.	No power; tripped circuit breaker; faulty pressure switch; motor issue.	Check power supply; reset breaker; inspect/replace pressure switch; consult technician.
Pump runs but delivers no water.	Pump not primed; air leak in suction line; low water level in well; clogged foot valve.	Re-prime pump; check suction line connections; verify well water level; inspect/clean foot valve.
Low water pressure.	Partially clogged lines; worn pump components; pressure switch setting too low; air in system.	Inspect/clean lines; service pump; adjust pressure switch; bleed air from system.
Pump runs continuously.	Leak in system; faulty pressure switch; pump unable to build pressure.	Check for leaks; inspect/replace pressure switch; troubleshoot for no water/low pressure issues.

7. Specifications

Attribute	Detail
Brand	Myers
Model Number	HJ50D
Part Number	HR50D
Horsepower (HP)	1/2 HP

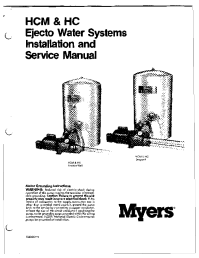
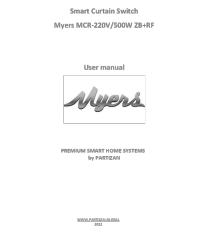
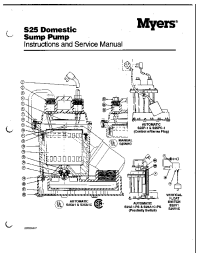
Attribute	Detail
Voltage	115V/230V
Power Source	AC/DC
Item Weight	44 pounds
Style	Convertible Deep Water Well Jet Pump
UPC	713356111732

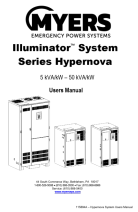
8. Warranty and Support

For detailed warranty information, please refer to the warranty card included with your product or visit the official Myers website. Keep your purchase receipt as proof of purchase for warranty claims.

For technical support, replacement parts, or service inquiries, please contact Myers customer service. Contact details can typically be found on the manufacturer's website or in the product packaging.

Related Documents - HJ50D

	Myers HCM & HC Ejecto Water Systems Installation and Service Manual Comprehensive installation and service manual for Myers HCM and HC Ejecto Water Systems, providing detailed instructions, troubleshooting guides, and maintenance information for shallow and deep well pumps.
	Myers MCR-220V/500W ZB+RF Smart Curtain Switch User Manual User manual for the Myers MCR-220V/500W ZB+RF Smart Curtain Switch, detailing installation, setup, control, and settings via the Partizan mobile application and ZigBee Hub.
	Myers S25 Domestic Sump Pump: Instructions, Service Manual, and Parts List Comprehensive instructions, service manual, and parts list for the Myers S25 Domestic Sump Pump series, covering installation, operation, maintenance, and troubleshooting. Includes model details, parts breakdown, and troubleshooting guide.

	[MYERS Illuminator System Series Hypernova: 5-50 kVA/kW UPS Users Manual] User manual and technical overview for the MYERS Illuminator System Series Hypernova, a range of 5 kVA/kW to 50 kVA/kW emergency power systems (UPS). Includes installation, operation, safety, maintenance, and troubleshooting guidance.
	[Myers SPS-4 Thermoplastic Submersible Utility Pump | Data Sheet] Explore the features and specifications of the Myers SPS-4 Thermoplastic Submersible Utility Pump. Ideal for light-duty drainage in basements, pools, and more, offering high performance and durability.