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Red Lion RL-SPRK200

Red Lion RL-SPRK200 Sprinkler/Irrigation Pump Instruction Manual

MODEL: RL-SPRK200 (97102001)

Introduction

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Red Lion RL-SPRK200 Sprinkler/Irrigation Pump. The RL-SPRK200 is a 2 HP, 230 Volt pump designed for both residential and commercial lawn and turf sprinkling systems. It features a rugged cast iron casing and a high-efficiency thermoplastic impeller and diffuser.

The pump is engineered for easy priming up to 25 feet, requiring no additional priming after the initial fill. It delivers up to 76 GPM at 10 PSI and 64 GPM at 30 PSI, capable of handling up to 21 sprinkler heads with 1/2-inch fittings or 10 sprinkler heads with 3/4-inch fittings in each zone.



SPRK SERIES SPRINKLER PUMPS

Glass-filled thermoplastic impeller suitable for pumping from wells or other clean water sources.



Image: The Red Lion RL-SPRK200 pump with its thermoplastic impeller, highlighting the internal component.

Safety Information

Important Safety Instructions: Read all instructions carefully before installation and operation. Failure to follow these instructions can result in serious injury or property damage.

- **Electrical Hazard:** This pump operates on 230 Volts only. It is not designed for 115 Volts and does not come with a power cord. The pump must be wired into a 230 Volt power source by a qualified electrician in accordance with all local electrical codes. Ensure the power supply is disconnected before performing any installation or maintenance.
- **Grounding:** Always ensure the pump is properly grounded to prevent electrical shock.
- **Moving Parts:** Keep hands and clothing clear of moving parts during operation.
- **Hot Surfaces:** The pump motor can become hot during operation. Avoid contact to prevent burns.
- **Water Pressure:** Always relieve system pressure before servicing the pump or plumbing.
- **Proposition 65 Warning:** This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Package Contents

Verify that all components are present upon unpacking:

- Red Lion RL-SPRK200 Sprinkler/Irrigation Pump with Thermoplastic Impeller
- Installation Manual (this document)

Setup

Proper setup is crucial for optimal performance and longevity of your pump.

1. Placement

- Install the pump on a firm, level surface to minimize vibration and ensure stable operation.
- Locate the pump in a dry, well-ventilated area, protected from freezing temperatures and direct exposure to the elements.
- Ensure adequate space around the pump for ventilation and future maintenance.

2. Plumbing Connections

The pump features a 2-inch Female NPT threaded intake and a 1.5-inch Female NPT threaded discharge.

- Use appropriate pipe fittings and thread sealant to ensure watertight connections.
- Install a foot valve or check valve on the intake line to maintain prime.
- Ensure all plumbing is adequately supported to prevent strain on the pump housing.

SPRK SERIES SPRINKLER PUMPS

FEATURES



Image: Key features of the RL-SPRK200 pump, including intake and discharge ports.

3. Electrical Connection

This pump requires a dedicated 230 Volt power source.

- Electrical wiring must be performed by a qualified electrician.
- Connect the pump to a 230 Volt, 10.9 running Amps circuit.
- The motor is a Capacitor-run PSC design and is thermally protected.
- Ensure all wiring complies with national and local electrical codes.

4. Priming the Pump

The RL-SPRK200 is designed for one-time priming. No additional priming is required after the initial fill, provided the intake line and foot valve hold prime.

1. Remove the priming plug located on the top of the pump casing.
2. Fill the pump casing completely with water until it overflows from the priming hole.
3. Replace the priming plug securely.
4. Open any discharge valves to allow air to escape the system.
5. Turn on the power to the pump. The pump should begin to draw water and build pressure.

6. Allow the pump to run until a steady stream of water flows from the discharge.
7. If the pump does not prime within 5 minutes, turn it off, recheck all connections for leaks, and repeat the priming process.



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ABOUT US

Backed by the heritage of a global leader in the development and manufacturing of systems and components that move water, the Red Lion® brand remains at the forefront of product innovation by listening to its customers, adapting to the market, and continuing to invest in research and development. This innovative product portfolio is supported by unparalleled service to provide you with current solutions to your water pumping challenges.

SINCE 1935

TECHNICAL SUPPORT: 1.888.885.9254

The image shows three generations of a family: an elderly man, a middle-aged man, and a young boy, all wearing casual outdoor clothing (shirts, jeans, caps) and smiling. They are standing in front of a large industrial facility with a red wall and a bridge-like structure in the background.

Image: The RL-SPRK200 pump installed and operating, providing water for a sprinkler system.

Operating Instructions

Once the pump is properly installed and primed, operation is straightforward.

- Ensure all intake and discharge valves are open before starting the pump.

- Turn on the electrical power to the pump. The pump will start and begin to build pressure.
- Monitor the system for proper water flow and pressure. The pump can deliver up to 76 GPM at 10 PSI and 64 GPM at 30 PSI.
- If the pump runs continuously without building pressure, refer to the troubleshooting section.
- To stop the pump, turn off the electrical power.



SPRK SERIES

SPRINKLER PUMPS

Draws water from wells, lakes ponds or ditches and is ideal for residential or light commercial use.



A large, red, industrial-style pump unit is shown in the foreground, mounted on a metal frame. In the background, a black sprinkler head is spraying a fine mist of water onto a lush green lawn. The lawn is bordered by a bed of small, light-colored pebbles and a concrete curb.

Image: A sprinkler head in operation, demonstrating the pump's function in an irrigation system.

Maintenance

Regular maintenance ensures reliable performance and extends the life of your pump.

- **Regular Inspection:** Periodically inspect the pump and plumbing for leaks, corrosion, or damage. Tighten any loose connections.
- **Cleanliness:** Keep the pump area clean and free of debris to ensure proper motor ventilation.
- **Winterization:** In areas subject to freezing temperatures, the pump must be drained completely to prevent damage. Disconnect power, remove drain plugs, and allow all water to escape. Store the pump in a warm, dry location if possible.
- **Impeller Check:** If performance degrades, inspect the thermoplastic impeller for wear or obstructions.

Troubleshooting

This section addresses common issues you might encounter with your Red Lion RL-SPRK200 pump.

Problem	Possible Cause	Solution
Pump does not start	No power; tripped circuit breaker; faulty wiring.	Check power supply; reset breaker; verify 230V connection.
Pump runs but no water or low flow	Loss of prime; air leak in suction line; clogged intake; low water source.	Re-prime the pump; check all suction line connections for leaks; clear intake; ensure adequate water supply.
Pump not performing to specifications	Incorrect voltage (e.g., connected to 115V); worn impeller; motor issue.	Ensure pump is connected to a 230 Volt power source. Inspect impeller; contact support if motor issue is suspected.
Excessive noise or vibration	Loose mounting; cavitation (air in pump); foreign object in impeller.	Tighten mounting bolts; check for air leaks in suction line; inspect impeller for obstructions.

For more detailed troubleshooting, consult the full owner's manual or contact technical support.

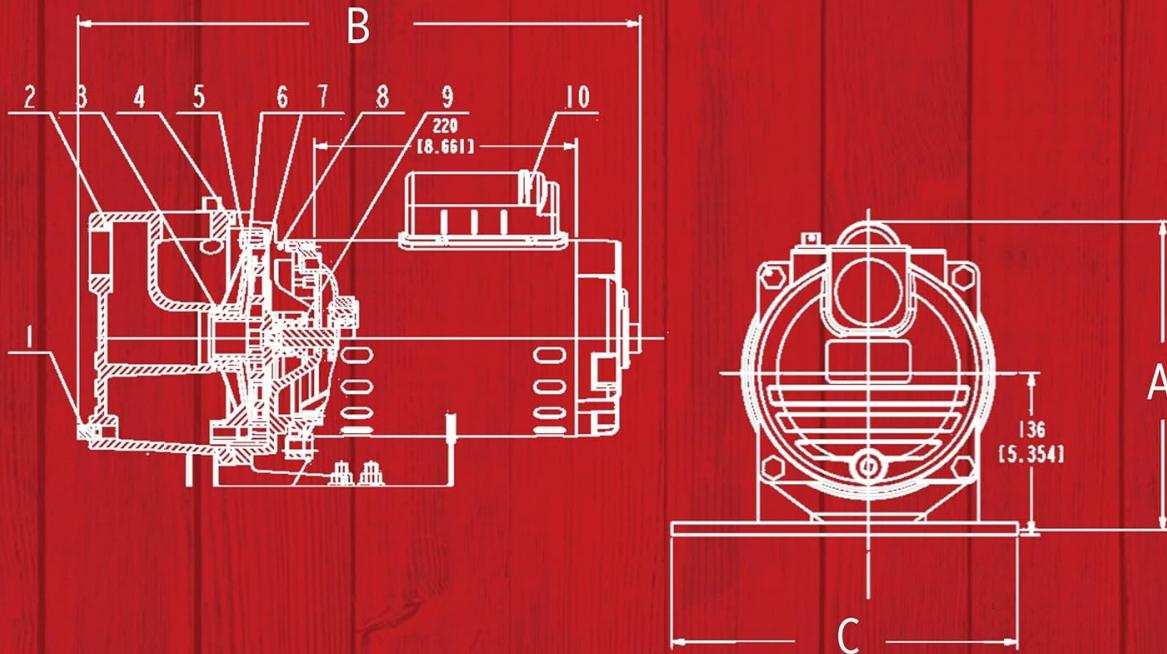
Specifications

Technical specifications for the Red Lion RL-SPRK200 Sprinkler/Irrigation Pump:

- **Model:** RL-SPRK200 (97102001)
- **Horsepower (HP):** 2.0 HP
- **Voltage:** 230 Volts
- **Running Amps:** 10.9 Amps @ 230V
- **Wattage:** 7332 watts
- **Maximum Flow Rate:** 76 Gallons Per Minute (GPM)
- **Maximum Pressure:** 49 PSI
- **Maximum Lifting Height (Suction Lift):** 25 Feet
- **Intake Connection:** 2-inch Female NPT threaded
- **Discharge Connection:** 1.5-inch Female NPT threaded
- **Material:** Cast Iron casing, Thermoplastic impeller
- **Product Dimensions (L x W x H):** 21.85" x 11.42" x 10.2"
- **Item Weight:** 63 Pounds
- **Motor Type:** Capacitor-run PSC design, Thermally protected
- **Certifications:** CSA listed (US and Canada)

SPRK SERIES SPRINKLER PUMPS

DIMENSIONS



HEIGHT (A)	LENGTH (B)	WIDTH (C)
10.2"	21.85"	11.42"

Image: Dimensional drawing of the SPRK series pumps, including the RL-SPRK200.



SPRK SERIES SPRINKLER PUMPS

Self-priming up to 25' after initial prime.

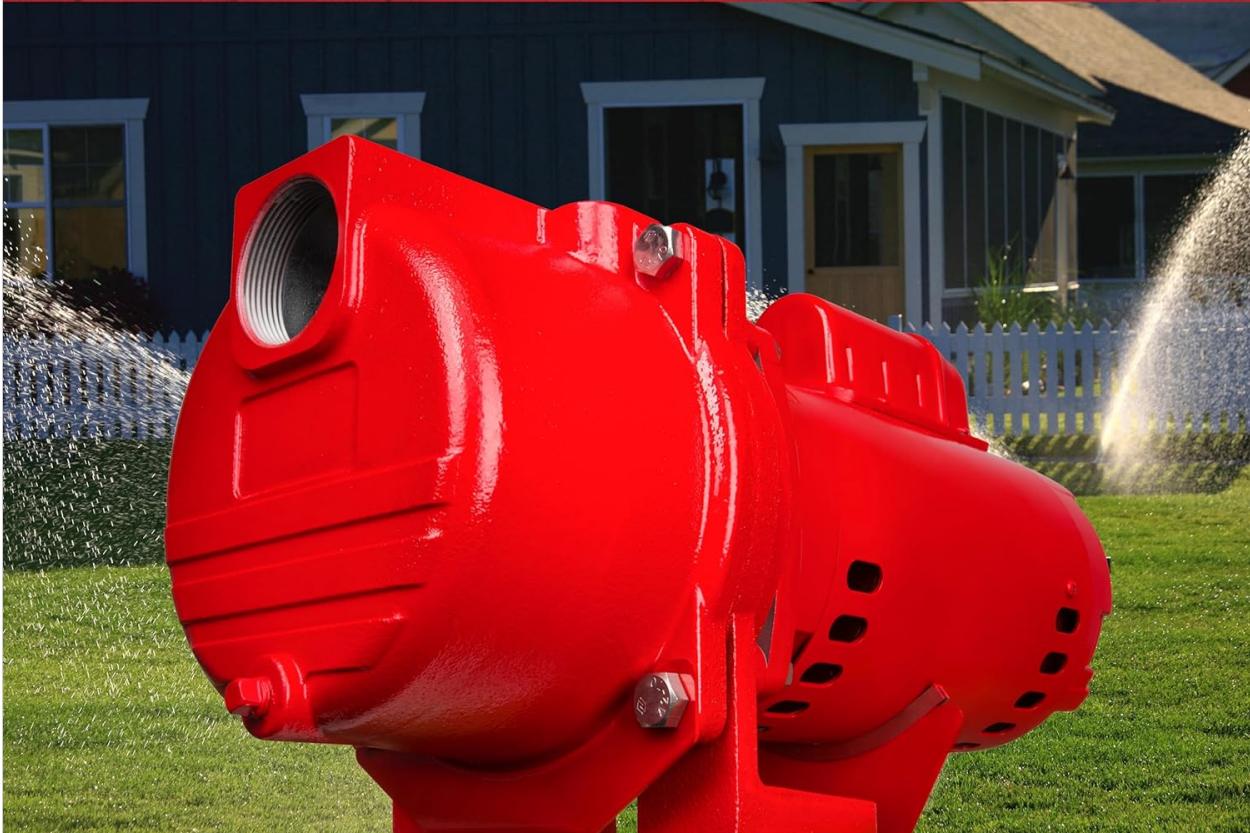


Image: Performance curve chart illustrating the flow and head characteristics of the RL-SPRK200 and other models.

Warranty

The Red Lion RL-SPRK200 Sprinkler/Irrigation Pump is covered by a **2-year manufacturer's warranty**. Please retain your proof of purchase for warranty claims. For specific terms and conditions, refer to the warranty documentation included with your product or contact Red Lion customer support.

Support

For technical assistance, troubleshooting, or installation support, please contact Red Lion customer service.

- **Technical Support Phone:** 1-888-885-9254
- You may also visit the official Red Lion website for additional resources and FAQs.

Image: Red Lion 'About Us' section, including technical support contact details.

