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Speroni RAM 40 (Model 102197760)

Speroni RAM 40 Single-Phase Multistage Pump User Manual

Model: RAM 40 (102197760)

1. Introduction and Safety Information

This manual contains essential information for the correct installation, operation, and maintenance of your Speroni RAM 40 single-phase self-priming multistage pump. Please read these instructions carefully before using the pump to ensure safe and efficient operation. Keep this manual in a safe place for future reference.

1.1 General Safety Warnings

- **Electrical Safety:** Always disconnect the pump from the power supply before performing any maintenance, installation, or repair work. Ensure the electrical connection is made by a qualified electrician and complies with local regulations. The pump operates on 230 volts.
- **Water Safety:** Do not operate the pump without water. Dry running can cause severe damage to the pump. Ensure the pump is always primed before starting.
- **Placement:** Install the pump in a well-ventilated area, protected from direct sunlight, rain, and frost. Ensure stable mounting to prevent vibration.
- **Children and Pets:** Keep children and pets away from the pump during operation.
- **Intended Use:** This pump is designed for pumping clean water. Do not use it for flammable, corrosive, or explosive liquids.

2. Product Overview

The Speroni RAM 40 is a robust single-phase self-priming multistage electric pump, designed for various water transfer applications. Its self-priming capability makes it suitable for situations where the water source is below the pump level. The multistage design ensures efficient operation and consistent pressure.



Figure 2.1: Speroni RAM 40 Single-Phase Multistage Pump. This image shows the overall design of the pump, including its motor housing and pump body, typically made of cast iron.

2.1 Key Features

- Self-priming functionality.
- Multistage design for high efficiency.
- Single-phase 230V electrical operation.
- Durable cast iron construction.

3. Setup and Installation

Proper installation is crucial for the pump's performance and longevity. If you are unsure about any step, consult a qualified professional.

3.1 Placement

1. Choose a dry, well-ventilated location, protected from weather elements and direct sunlight.
2. Ensure the pump is placed on a stable, level surface to minimize vibration and noise. Secure it if necessary.
3. Allow sufficient space around the pump for ventilation and future maintenance access.

3.2 Plumbing Connections

1. Connect the suction pipe to the pump's inlet. Ensure the suction pipe is airtight to prevent air leaks, which can affect priming.
2. Install a foot valve with a strainer at the end of the suction pipe in the water source to prevent debris from entering the pump and to maintain prime.
3. Connect the discharge pipe to the pump's outlet. Use appropriate fittings and sealants to prevent leaks.
4. Avoid using pipes with a diameter smaller than the pump's inlet/outlet to prevent flow restrictions.

3.3 Electrical Connection

WARNING: Electrical work should only be performed by a qualified electrician.

1. Ensure the power supply matches the pump's requirements (230V, single-phase).
2. Connect the pump to a properly grounded electrical outlet or circuit.
3. Install appropriate circuit protection (e.g., circuit breaker or fuse) as per local electrical codes.

4. Operating Instructions

Follow these steps for safe and effective operation of your Speroni RAM 40 pump.

4.1 Priming the Pump

Before the first start-up, or if the pump has run dry, it must be primed.

1. Ensure all plumbing connections are secure and airtight.
2. Locate the priming plug (usually on the top of the pump body). Unscrew it.
3. Slowly fill the pump casing with clean water until it overflows from the priming hole.
4. Replace and tighten the priming plug.
5. Open any valves on the discharge side to allow air to escape during startup.

4.2 Starting the Pump

1. Ensure the pump is properly primed.
2. Connect the pump to the power supply.
3. The pump should start and begin pumping water. If it does not prime within a few minutes, switch it off, re-prime, and try again.

4.3 Stopping the Pump

To stop the pump, simply disconnect it from the power supply or switch off the dedicated circuit breaker.

5. Maintenance

Regular maintenance ensures optimal performance and extends the life of your pump. Always disconnect power before maintenance.

5.1 Routine Checks

- **Check for Leaks:** Periodically inspect all plumbing connections for leaks. Tighten or reseal as necessary.
- **Inspect Suction Filter:** If a foot valve with a strainer is used, check and clean the strainer regularly to prevent blockages.
- **Listen for Unusual Noises:** Any new or unusual noises could indicate a problem. Investigate promptly.

5.2 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 by removing the drain plug (if present) or by disconnecting the pipes.
3. Store the pump in a dry, frost-free location if possible.

6. Troubleshooting

This section addresses common issues you might encounter with your Speroni RAM 40 pump.

6.1 Pump Does Not Start

- **No Power:** Check the power supply, circuit breaker, and electrical connections.
- **Motor Overload:** The motor may have an internal thermal overload protector. Allow it to cool down and try again. Investigate the cause of overload (e.g., low voltage, blockage).
- **Seized Impeller:** Disconnect power and try to manually turn the motor shaft (if accessible) to check for obstructions.

6.2 Pump Runs But Does Not Prime or Delivers Low Pressure

- **Not Primed:** Ensure the pump casing is completely filled with water.
- **Air Leaks:** Check all suction pipe connections for air leaks. Even small leaks can prevent priming.
- **Low Water Level:** Ensure the water source has sufficient water and the foot valve is submerged.
- **Clogged Suction:** Check the foot valve strainer for blockages.
- **Excessive Suction Lift:** The vertical distance from the water source to the pump may be too great.
- **Worn Components:** After extended use, internal components like impellers or seals may wear, reducing performance. Contact a service professional.

7. Specifications

Specification	Value
Brand	Speroni
Model	RAM 40
Reference Number	102197760
Power Source	Electric Cable (230V Single-Phase)
Material	Cast Iron
Style	Electropump, Self-priming
Product Dimensions (L x W x H)	60 x 24 x 28 cm

8. Support

For technical assistance, spare parts, or warranty inquiries, please contact your authorized Speroni dealer or the manufacturer's customer service. Please have your pump model (RAM 40) and reference number (102197760) available when contacting support.

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