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Speroni CAM 40-HL

Speroni CAM 40-HL Self-Priming Electric Pump User Manual

Model: CAM 40-HL | Brand: Speroni

Overview Introduction Setup Safety Instructions Operation Product Maintenance Troubleshooting Specifications Warranty & Support

1. Introduction

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Speroni CAM 40-HL self-priming electric pump. Please read these instructions carefully before using the pump to ensure proper function and to prevent damage or injury. Keep this manual for future reference.
The Speroni CAM 40-HL is a single-phase self-priming jet pump designed for excellent hydraulic performance and high pressure capacity. It can draw water from depths of up to 8 meters and operates effectively even with gas-mixed water. This pump is suitable for lifting and distributing water in domestic installations, serving small to medium-sized tanks.

2. Safety Instructions

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

- Always disconnect the pump from the power supply before performing any installation, maintenance, or repair work.
- Ensure the electrical supply matches the voltage and frequency specified on the pump's rating plate (230V, 50Hz).
- The pump must be connected to a properly grounded electrical outlet.
- Do not operate the pump with damaged cables or plugs.
- Do not run the pump dry. Dry running can cause severe damage to the pump.
- Protect the pump from frost. Drain the pump completely if there is a risk of freezing temperatures.
- Ensure adequate ventilation around the pump to prevent overheating.
- Keep children and unauthorized persons away from the pump during operation.
- The maximum liquid temperature for operation is 35°C. Do not pump liquids hotter than this.

3. Product Overview

The Speroni CAM 40-HL pump features a robust design for reliable water transfer. Key components include the pump

body, motor, impeller, and electrical connection box.



Figure 3.1: Front view of the pump, showing the motor casing and electrical connection.



Figure 3.2: Rear view of the pump, highlighting the pump body and outlet.



Figure 3.3: Side view showing the pump's rating label and general construction.



Figure 3.4: Close-up of the pump body, constructed from durable cast iron.



Figure 3.5: The Noryl impeller, designed for efficient water movement.



Figure 3.6: Connection point for the water hose.

4. Setup and Installation

4.1. Location

Choose a dry, well-ventilated location for the pump, protected from direct sunlight, rain, and frost. The pump should be placed on a stable, level surface to minimize vibration.

4.2. Plumbing Connections

- Connect the suction pipe to the pump's inlet. Ensure all connections are airtight to prevent air leaks, which can affect priming and pump performance.
- Connect the discharge pipe to the pump's outlet.
- Use appropriate pipe sizes and sealants for all connections.
- Install a foot valve with a strainer at the end of the suction pipe to prevent debris from entering the pump and to maintain prime.

4.3. Electrical Connection

- Ensure the power supply is disconnected before making any electrical connections.
- Connect the pump to a grounded 230V, 50Hz electrical outlet.
- If an extension cord is necessary, ensure it is rated for outdoor use, properly grounded, and has sufficient gauge for the pump's power requirements.

4.4. Priming the Pump

Before initial operation, the pump must be primed:

1. Remove the priming plug (usually located on top of the pump body).
2. Fill the pump casing completely with clean water until it overflows.
3. Replace the priming plug securely.
4. Ensure the suction line is also filled with water if possible, or that the foot valve is submerged.

5. Operation

5.1. Starting the Pump

1. Ensure the pump is properly primed as described in Section 4.4.
2. Verify all connections are secure and there are no visible leaks.
3. Connect the pump to the power supply. The pump should start immediately.
4. Monitor the pump for the first few minutes to ensure water flow and proper operation.

5.2. Continuous Operation

The Speroni CAM 40-HL is designed for continuous service. However, avoid running the pump dry. If the water source runs out, immediately disconnect the power supply to prevent damage.

5.3. Stopping the Pump

To stop the pump, simply disconnect it from the power supply.

6. Maintenance

Regular maintenance ensures the longevity and efficient operation of your pump.

6.1. Routine Checks

- **Check for Leaks:** Periodically inspect all pipe connections for leaks. Tighten or re-seal as necessary.
- **Inspect Power Cable:** Ensure the power cable and plug are free from damage.
- **Clean Strainer:** If a foot valve with a strainer is used, regularly clean the strainer to prevent blockages.
- **Listen for Unusual Noises:** Any unusual noises may indicate a problem and should be investigated.

6.2. Winterization (Frost Protection)

If the pump is exposed to freezing temperatures, it must be drained to prevent damage:

1. Disconnect the pump from the power supply.
2. Remove the drain plug (usually located at the bottom of the pump casing).
3. Allow all water to drain completely from the pump and associated piping.
4. Store the pump in a warm, dry place if possible, or ensure it is thoroughly dry before re-installing the drain plug.

7. Troubleshooting

This section addresses common issues you might encounter with your Speroni CAM 40-HL pump.

Problem	Possible Cause	Solution
Pump does not start	No power supply Thermal overload tripped Motor fault	Check power connection and circuit breaker Allow motor to cool down and reset Contact qualified service personnel
Pump runs but no water flows	Pump not primed Air leak in suction line Foot valve clogged or stuck Suction lift too high	Re-prime the pump Check and seal all suction line connections Clean or replace foot valve Reduce suction lift or move pump closer to water source

Problem	Possible Cause	Solution
Low water pressure/flow	Partial blockage in suction or discharge line Air leak in suction line Worn impeller Voltage drop	Check and clear blockages Check and seal all suction line connections Contact qualified service personnel for impeller replacement Ensure stable power supply
Pump is noisy	Air in pump or suction line Cavitation Bearing wear	Re-prime the pump, check for air leaks Ensure adequate water supply, reduce suction lift Contact qualified service personnel
Pump leaks	Loose connections Damaged seals	Tighten connections Contact qualified service personnel for seal replacement

8. Technical Specifications

Below are the technical specifications for the Speroni CAM 40-HL self-priming electric pump:

Feature	Specification
Model Number	CAM 40-HL (101155450)
Brand	Speroni
Type	Self-priming Jet Pump
Power Source	Electric Cable
Voltage	230 Volts
Frequency	50 Hz
Absorbed Power	800 W
Horsepower	1.07 HP
Maximum Flow Rate	50 Liters per minute
Maximum Head (Prevalence)	38 meters
Maximum Suction Lift	8 meters
Maximum Liquid Temperature	35°C
Pump Body Material	Cast Iron
Impeller Material	Noryl
Dimensions (L x W x H)	36.5L x 17.7W x 19.7H centimeters
Continuous Service	Yes
Spare Parts Availability (EU)	7 Years

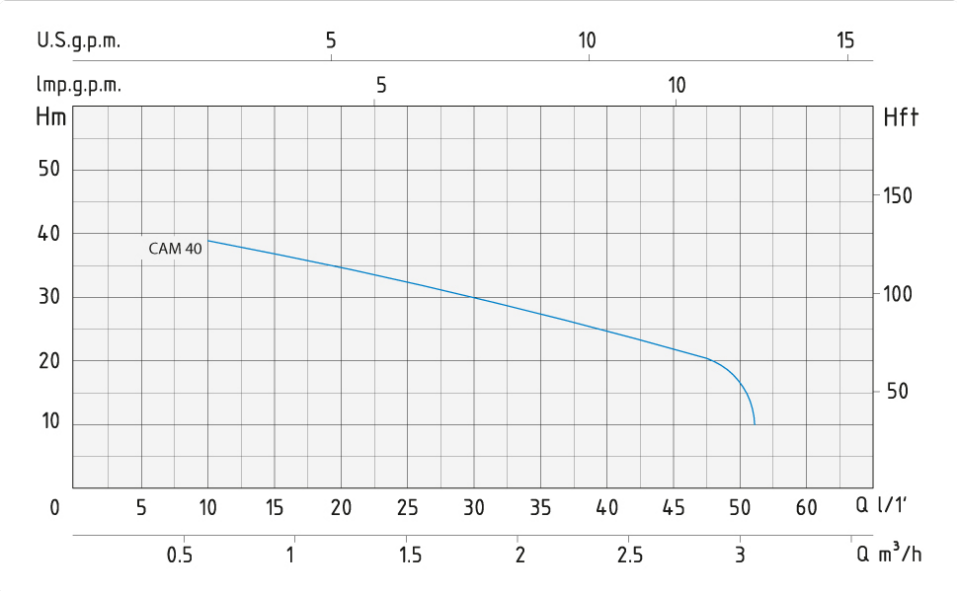


Figure 8.1: Performance curve illustrating the relationship between flow rate (Q) and head (Hm) for the CAM 40-HL pump.

9. Warranty and Support

Speroni products are manufactured to high-quality standards. For warranty information, please refer to the documentation provided with your purchase or contact your retailer. Keep your proof of purchase for warranty claims.

For technical support, spare parts, or service, please contact your authorized Speroni dealer or the customer service department. Spare parts are generally available for 7 years within the EU.

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