Speroni CAM 88

Speroni 1811107 CAM 88 Self-Priming Jet Water Pump User Manual

Model: CAM 88 | Part Number: 1811107

1. Introduction

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your Speroni 1811107 CAM 88 Self-Priming Jet Water Pump. Please read these instructions thoroughly before installation and use to ensure proper function and to prevent injury or damage.

The Speroni CAM 88 is designed for water lifting and distribution in domestic fittings, suitable for use with small and medium-sized tanks. It offers high hydraulic performance and significant pressure capacity, capable of pumping from depths up to 8 meters.

2. Safety Information

Important Safety Instructions:

- Always disconnect the pump from the power supply before performing any installation, maintenance, or repair work.
- Ensure the electrical supply matches the pump's specifications (220V, 60Hz, Single Phase).
- The pump must be properly grounded to prevent electrical shock.
- Do not operate the pump dry. Ensure the pump body is filled with water before starting to prevent damage.
- Protect the pump from freezing temperatures. Drain the pump if it will be exposed to freezing conditions.
- Keep children and unauthorized personnel away from the pump during operation.
- Install the pump in a well-ventilated area, protected from direct sunlight and rain.
- The maximum liquid temperature for operation is 35°C.

3. Product Overview

The Speroni CAM 88 is a robust self-priming jet water pump featuring a stainless steel AISI 304 pump body and a two-pole induction motor. Its design ensures reliable performance for various water transfer applications.



Figure 1: Speroni CAM 88 Self-Priming Jet Water Pump. This image displays the pump's main components, including the polished stainless steel pump body on the left, connected to the blue electric motor housing on the right. A black electrical terminal box is visible on top of the motor. The pump features an inlet and outlet port, and a small label with "SPERONI" branding and technical specifications is affixed to the motor housing.

Key Features:

- Very high hydraulic performance and considerable pressure capacity.
- Capable of pumping from depths up to 8 meters, even in soda-water.
- Suitable for water lifting and distribution in domestic systems.
- Two-Pole induction motor (n = 3450 min-1).
- Liquid temperature tolerance up to 35°C.
- Pump body constructed from Stainless Steel AISI 304 for durability.

4. Setup

4.1. Location

- Place the pump on a firm, level surface to minimize vibration.
- Ensure the location is dry, well-ventilated, and protected from frost, direct sunlight, and excessive moisture.
- Allow sufficient space around the pump for ventilation and maintenance access.

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.
- Connect the discharge pipe to the pump's outlet. Use appropriate fittings and sealants.
- 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.

- Consider installing a check valve on the discharge side to prevent backflow.

4.3. Electrical Connection

- Ensure the power supply is 220V, 60Hz, Single Phase.
- All electrical wiring must be performed by a qualified electrician and comply with local electrical codes.
- The pump must be connected to a properly grounded circuit.
- Install appropriate circuit protection (e.g., circuit breaker or fuse) as required by local regulations.

5. Operation

5.1. Priming the Pump

1. Ensure all plumbing connections are secure and airtight.
2. Remove the priming plug (usually located on top of the pump body).
3. Slowly fill the pump body with clean water until it overflows from the priming port.
4. Replace and tighten the priming plug securely.
5. Open any valves on the discharge side of the pump.

5.2. Starting the Pump

- Once primed, connect the pump to the power supply.
- The pump should start and begin to draw water. It may take a few moments for the pump to establish full prime and flow.
- Monitor the pump for unusual noises or vibrations. If the pump does not prime within a few minutes, turn it off, check for air leaks, and re-prime.

5.3. Stopping the Pump

- Disconnect the pump from the power supply.
- If the pump is to be out of service for an extended period or during freezing weather, drain the pump completely.

6. Maintenance

6.1. Regular Checks

- Periodically inspect the pump for any signs of leaks, corrosion, or damage.
- Check electrical connections for tightness and signs of wear.
- Ensure the pump's ventilation openings are clear of debris to prevent overheating.

6.2. Winterization

- If the pump is installed in an area subject to freezing temperatures, it must be drained completely to prevent damage.
- Disconnect power, remove the drain plug (if present) and the priming plug, and allow all water to exit the pump body and pipes.
- Store the pump in a warm, dry place if possible, or ensure it is thoroughly drained and protected from frost.

7. Troubleshooting

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Pump does not start	No power, faulty wiring, motor overload.	Check power supply, circuit breaker. Consult an electrician for wiring issues. Allow motor to cool if overloaded.
Pump runs but no water flow	Pump not primed, air leak in suction line, clogged suction line/foot valve, low water level.	Re-prime the pump. Check all suction connections for leaks. Clean suction line and foot valve. Ensure adequate water source.
Reduced water flow/pressure	Partial clog, air in system, worn impeller, motor running slow.	Check for partial clogs. Bleed air from the system. Inspect impeller for wear (requires professional service). Verify correct voltage.
Pump is noisy	Cavitation (air in pump), bearing wear, foreign object.	Ensure pump is fully primed and suction line is airtight. If noise persists, professional inspection may be required for bearing or foreign object removal.

For issues not listed or if troubleshooting steps do not resolve the problem, contact a qualified service technician.

8. Specifications

Parameter	Value
Model	CAM 88
Part Number	1811107
Voltage	220V
Ampere	5A
Phase	Single
Nominal Power	0.75kW (1HP)
Power Consumption	1.1kW
Frequency	60Hz
Motor Type	Two-Pole Induction Motor (3450 min-1)
Performance	13 G/min / 150 ft.
Insulation Class	F
Protection Rating	IP 44
Pump Body Material	Stainless Steel AISI 304
Motor Support Material	Aluminum
Impeller Material	Noryl
Diffuser Material	Noryl
Shaft with Rotor Material	Stainless Steel AISI 304
Mechanical Seal	Ceramic/Graphite/NBR

Parameter	Value
Liquid Temperature Max.	35°C
Weight	10.2 kg (approx. 22 lbs)

9. Warranty and Support

For warranty information, please refer to the documentation provided with your purchase or contact the manufacturer directly.
Keep your proof of purchase for warranty claims.
For technical support or service, please contact your authorized dealer or the manufacturer's customer service department.

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