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› [Steinbach](#) /

› [Steinbach SPS 100-1T Self-Priming Filter Pump User Manual](#)

Steinbach 040917

Steinbach SPS 100-1T Self-Priming Filter Pump User Manual

Model: 040917

1. PRODUCT OVERVIEW

The Steinbach SPS 100-1T self-priming filter pump is designed to be the central component of your pool's circulation system. This robust pump features a pre-filter and an integrated timer, making it suitable for pools up to approximately 40,000 liters (10,567 gallons) in volume. It operates on 230V/550W power and offers a pumping capacity of 9,480 liters per hour (158 l/min) with a maximum pump height of 10 meters.

The pump is designed for durability and efficiency, ensuring clean and clear pool water. It is compatible with hose connections of Ø 32/38 mm and can operate with water temperatures up to 35 °C.



Figure 1: Overview of the Steinbach SPS 100-1T Self-Priming Filter Pump. This image shows the complete pump unit, including the motor, pump housing, and pre-filter basket.

2. SAFETY INSTRUCTIONS

- Always disconnect the pump from the power supply before performing any maintenance or cleaning.
- Ensure the pump is installed on a stable, level surface to prevent vibration and movement.
- Do not operate the pump dry. Ensure it is always filled with water before starting.
- Keep children and pets away from the pump during operation.
- Only use the pump for its intended purpose (pool water filtration).
- Regularly inspect the power cable for damage. Do not use if damaged.
- Ensure all electrical connections are properly sealed and protected from water.

3. SETUP AND INSTALLATION

3.1 Unpacking

Carefully remove all components from the packaging. Verify that all parts are present and undamaged. Refer to the packing list for a complete inventory.

3.2 Placement

Position the pump on a firm, level surface, preferably below the water level of the pool for optimal self-priming. Ensure adequate ventilation around the pump to prevent overheating. The pump should be placed in a location protected from direct sunlight and adverse weather conditions.

3.3 Connecting Hoses

Connect the pool's suction line to the inlet of the pump (the side with the pre-filter) and the return line to the outlet. The pump is designed for Ø 32/38 mm hose connections. Secure all hose connections with appropriate clamps to prevent leaks.



Figure 2: Close-up view of the pre-filter inlet with a hose connected. This shows the transparent pre-filter housing and the connection point for the pool's suction hose.



Figure 3: Close-up view of the pump outlet with a hose connected. This illustrates the connection point for the pool's return hose.

3.4 Priming the Pump

Before first use, or after the pump has been drained, it must be primed. Open the pre-filter lid and fill the pre-filter basket and pump housing completely with water. Replace the lid securely. This ensures the pump does not run dry, which can cause damage.



Figure 4: View of the pre-filter inlet without a hose attached. This shows the threaded connection for the pre-filter housing.



Figure 5: View of the pump outlet without a hose attached. This shows the threaded connection for the outlet hose.

3.5 Electrical Connection

Connect the pump to a grounded 230V power outlet. Ensure the electrical circuit is protected by a Residual Current Device (RCD) for safety. Do not use extension cords unless absolutely necessary, and ensure they are rated for outdoor use and the pump's power requirements.

4. OPERATING INSTRUCTIONS

4.1 Starting and Stopping the Pump

Once the pump is primed and all connections are secure, press the **ON/OFF** button on the control panel to start the pump. Press it again to stop the pump.

4.2 Using the Integrated Timer

The SPS 100-1T pump features an integrated timer for automated operation. Use the **TIMER** button to set the desired operating duration. The control panel typically has indicators for various time settings (e.g., 2, 4, 6, 8, 10, 12, 14, 16, 24 hours). Select the appropriate duration based on your pool's size and usage to ensure adequate filtration.



Figure 6: Close-up view of the pump's control panel. This image highlights the ON/OFF and TIMER buttons, along with the indicators for setting the filtration duration.

4.3 Optimal Filtration Time

For optimal water quality, it is generally recommended to filter the entire volume of your pool water at least once per day. The required filtration time depends on the pump's flow rate and your pool's volume. For this pump with a flow rate of 9,480 l/h, a 40,000-liter pool would require approximately 4.2 hours of filtration per day ($40,000 \text{ L} / 9,480 \text{ L/h} \approx 4.2 \text{ h}$).

5. MAINTENANCE

5.1 Cleaning the Pre-Filter Basket

The pre-filter basket collects larger debris and should be cleaned regularly to maintain pump efficiency.

1. Turn off the pump and disconnect it from the power supply.
2. Unscrew the transparent lid of the pre-filter.
3. Remove the pre-filter basket and empty any collected debris.
4. Rinse the basket thoroughly with clean water.
5. Inspect the O-ring seal on the lid for damage and ensure it is clean.
6. Place the clean basket back into the housing and securely screw on the lid.
7. Re-prime the pump if necessary before restarting.

5.2 Winterization

Before the first frost, the pump must be drained and stored in a frost-free environment.

- Disconnect the pump from the power supply.
- Disconnect all hoses.
- Remove the drain plug (if present) or tilt the pump to ensure all water drains out.

- Clean the exterior of the pump.
- Store the pump in a dry, frost-free location.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Pump does not start	No power supply; tripped circuit breaker; faulty wiring.	Check power connection; reset circuit breaker; inspect wiring (consult electrician if unsure).
Low water flow	Clogged pre-filter; air in the system; restricted hoses; low water level in pool.	Clean pre-filter basket; re-prime pump; check hoses for kinks/blockages; ensure adequate pool water level.
Pump is noisy	Air in the system; debris in impeller; pump running dry; loose connections.	Re-prime pump; clean impeller (professional service recommended); ensure pump is always filled with water; tighten all connections.
Water leaking from pump	Loose hose connections; damaged O-rings/seals; cracked housing.	Tighten hose clamps; inspect and replace O-rings/seals; contact support for housing damage.

7. TECHNICAL SPECIFICATIONS

Feature	Specification
Model Number	040917
Manufacturer	Steinbach
Voltage	230 Volts
Power	550 W
Max Flow Rate	9,480 Litres per hour (158 l/min)
Max Pump Height	10 meters
Hose Connection	Ø 32/38 mm
Max Water Temperature	35 °C
Max Pool Volume	40,000 Litres
Noise Level	Approx. 70 dB
Material	Stainless steel (internal components), Plastic (housing)
Dimensions (Package)	45.4 x 24.8 x 20.8 cm
Weight	6.14 Kilograms
Features	Self-priming, Integrated timer, Pre-filter

8. WARRANTY AND SUPPORT

This product comes with a standard manufacturer's warranty. Please refer to your purchase documentation for specific warranty terms and conditions. For technical support, spare parts, or warranty claims, please contact Steinbach customer service or your authorized dealer.

Steinbach Contact Information:





Website: www.steinbach.at

Model Reference: 9008748409179

Please have your model number (040917) and purchase date ready when contacting support.

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Related Documents - 040917

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	<p>Steinbach Filterpumpe SPS 175-1T Bedienungsanleitung</p> <p>Finden Sie detaillierte Informationen zur Bedienung, Wartung und Sicherheit der Steinbach Filterpumpe SPS 175-1T. Diese Anleitung enthält Anleitungen zur Installation, zum Betrieb und zur Fehlerbehebung für Ihre Poolfilterpumpe.</p>
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Comprehensive user manual for the Steinbach Speedsolar Pool Solar Mat (0.7x3.0m and 0.7x6.0m). Includes installation guide, safety instructions, technical specifications, and troubleshooting.



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Umfassende Bedienungsanleitung für den Steinbach Speedclean Classic Sandfilter. Enthält Anleitungen zu Installation, Inbetriebnahme, Wartung und Fehlerbehebung für eine optimale Poolwasserfiltration.