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## Knifel 300GPH

# Knifel 300GPH Submersible Pump User Manual

Model: 300GPH (SL-403)

## 1. INTRODUCTION AND OVERVIEW

Thank you for choosing the Knifel 300GPH Submersible Pump. This pump is designed for reliable and efficient water circulation in various applications, including fountains, hydroponic systems, ponds, and aquariums. Its ultra-quiet operation and built-in overheating protection ensure a long service life and a peaceful environment.

This manual provides essential information for the safe and effective installation, operation, and maintenance of your pump. Please read it thoroughly before use and retain it for future reference.



Image 1.1: Knifel 300GPH Submersible Pump. This image shows the compact design of the pump with its power cord.

## 2. PRODUCT FEATURES

- **Ultra-Quiet Design & Long Life:** Engineered with a high-quality rotor and copper components to ensure quiet operation and extended durability.
- **Multi-Occasions Use:** Suitable for medium-sized aquariums, small ponds, water gardens, desktop water fountains, backyard fountains/waterfalls, fish tanks, garden statuary, patio drip irrigation systems, and hydroponic systems.
- **High Performance:** Delivers a high flow rate with low power consumption, promoting energy efficiency and longevity.
- **Water Flow Control:** Features an adjustable knob to regulate the water flow rate, allowing customization of water pressure. Maximum flow rate: 300 GPH (1100 L/H).
- **Detachable & Cleanable:** Designed for easy disassembly without tools, simplifying cleaning and maintenance.

# ULTRA-QUIET



USING ADVANCED TECHNOLOGY NOISE REDUCE 30%



Image 2.1: Ultra-Quiet Design. This graphic highlights the pump's quiet operation (30-40db) compared to other sounds, featuring a high-quality rotor and 100% copper winding.

# Adjustable Water Flow Rate



Max flow rate  
300GPH(1100L/h)



Max lift height  
6ft(180cm)



Over heating protection

Image 2.2: Adjustable Water Flow Rate. This image illustrates the pump's adjustable flow knob, showing a maximum flow rate of 300 GPH (1100 L/h) and a maximum lift height of 6 ft (180 cm), along with overheating protection.

### 3. PACKAGE CONTENTS

Your Knifel 300GPH Submersible Pump package should include the following items:

- 1 x Knifel 300GPH Submersible Pump
- 1 x Power Cord (6 ft long)
- 2 x Nozzles (1/2 inch / 13mm and 5/8 inch / 16mm)
- 4 x Suction Cups (for secure placement)
- 1 x Filter Sponge (pre-installed)



Image 3.1: Package Contents. This image displays the pump, its 6 ft power cord, and the two included nozzles (1/2 inch and 5/8 inch).

#### 4. SAFETY INSTRUCTIONS

**WARNING: To reduce the risk of electric shock, connect only to a properly grounded, grounding-type receptacle.**

- Always disconnect the pump from the power supply before handling, cleaning, or performing any maintenance.
- Ensure the pump is fully submerged in water during operation. Running the pump dry can cause overheating and permanent damage.
- Do not operate the pump if the power cord or plug is damaged.
- This pump is designed for use with water only. Do not use with flammable liquids.
- Keep children and pets away from the pump and water feature during operation.
- This pump has not been investigated for use in swimming pool or marine areas.

- Ensure the electrical outlet is protected by a Ground Fault Circuit Interrupter (GFCI).

## 5. SETUP

1. **Choose a Nozzle:** Select the appropriate nozzle (1/2 inch or 5/8 inch) based on your desired water flow and hose size. Attach it firmly to the pump's outlet.
2. **Attach Suction Cups:** Secure the four suction cups to the designated spots on the bottom of the pump.
3. **Position the Pump:** Place the pump at the bottom of your fountain, pond, or aquarium. Press down firmly to ensure the suction cups adhere to the surface, preventing movement.
4. **Submerge the Pump:** Fill your water feature with water, ensuring the pump is completely submerged before connecting to power.
5. **Connect Power:** Plug the power cord into a properly grounded GFCI-protected electrical outlet.



Image 5.1: Pump Applications. This image shows various uses for the pump, including fountains, hydroponics, ponds, rockeries, and aquariums.

## 6. OPERATING INSTRUCTIONS

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- **Power On/Off:** The pump does not have an integrated on/off switch. To operate, plug the power cord into an electrical outlet. To turn off, unplug the power cord.
- **Adjust Water Flow:** Use the adjustable knob located on the side of the pump to increase or decrease the water flow rate. Turn the knob towards the '+' symbol for higher flow and towards the '-' symbol for lower flow.
- **Monitor Water Level:** Regularly check the water level in your feature to ensure the pump remains fully submerged. Continuous dry running can damage the pump.

Your browser does not support the video tag.

*Video 6.1: More uses than just an outdoor fountain! This video demonstrates the pump's versatility in various water features, showcasing its functionality and adjustable flow.*

## 7. MAINTENANCE

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Regular maintenance will prolong the life of your pump and ensure optimal performance.

### 1. Cleaning the Pump:

- Disconnect the power supply.
- Remove the pump from the water.
- Detach the front cover and impeller cover (no tools required).
- Remove the impeller and clean it with a soft brush under running water.
- Clean the inside of the pump housing and the filter sponge to remove any debris, algae, or mineral buildup.
- Reassemble all parts securely.

2. **Water Quality:** Maintain good water quality to prevent excessive buildup and clogging. Consider using appropriate water treatments for your specific application (e.g., algaecides for ponds).

3. **Winterization:** In freezing temperatures, remove the pump from the water feature, clean it thoroughly, and store it in a dry, frost-free location.

## 8. TROUBLESHOOTING

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Problem	Possible Cause	Solution
Pump does not operate	Not plugged in No power at outlet Impeller jammed Pump running dry	Plug in pump Check circuit breaker/GFCI Clean impeller and housing Ensure pump is submerged
Low water flow	Clogged filter/impeller Flow control knob set too low Kinked or blocked hose Insufficient water level	Clean filter and impeller Adjust flow control knob Check and clear hose Add water to submerge pump
Pump is noisy	Debris in impeller Pump not stable Pump running dry	Clean impeller Secure pump with suction cups Add water to submerge pump

## 9. SPECIFICATIONS

Attribute	Value
Brand	Knifel
Model	300GPH (SL-403)
Material	Copper (internal components), Plastic (housing)
Style	Submersible
Product Dimensions	3.3"L x 2.2"W x 3.8"H
Power Source	Corded Electric
Item Weight	1.1 Pounds
Maximum Lifting Height	6.1 Feet (1.8m)
Maximum Flow Rate	300 GPH (1100 L/H)
Voltage	220 Volts <b>(Note: Product label in image shows AC 120V 60Hz 21W. Please verify actual voltage for your region.)</b>
Power Cord Length	6 Feet

# Specifications

Material: **Plastic**

Color: **Black**

Max. Flow Rate: **300 GPH**

Style: **Submersible**

Power Source: **Ac**

Max. Lift Height: **6 ft. (1.8m)**

Power Cord Length:



Image 9.1: Specifications Diagram. This graphic provides a visual overview of the pump's dimensions, material, color, max flow rate, max lift height, and power cord length.

## 10. WARRANTY AND SUPPORT

Knifel is committed to providing high-quality products. While specific warranty details are not provided in this manual, please refer to the product packaging or the retailer's website for the most current warranty information.

For technical support, troubleshooting assistance, or to inquire about replacement parts, please contact Knifel customer service through the retailer where you purchased the product or visit the official Knifel website.