

FavorCOOL FC-SP-300

FavorCOOL FC-SP-300 300W Sink Sewerage Pump Instruction Manual

Model: FC-SP-300 | Brand: FavorCOOL

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your FavorCOOL FC-SP-300 300W Sink Sewerage Pump. This appliance is designed for pumping clear wastewater from washbasins, showers, laundry, urinals, and sinks in locations where a traditional sewage system is not readily available, such as basements.

The FC-SP-300 features a powerful 300W motor, a unique full stainless steel motor shell, and a patented anti-tangle design to ensure reliable performance. It operates automatically based on water levels and is engineered for quiet operation.

300W SEWAGE SUMP PUMP

Automatic Sink Sewerage Pump



Figure 1.1: Key performance indicators of the FavorCOOL FC-SP-300 pump, highlighting its quiet operation and powerful pumping capabilities.

2. IMPORTANT SAFETY INSTRUCTIONS

Read all instructions carefully before installation and operation. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Electrical Safety:** Ensure the pump is connected to a properly grounded 110V-120V/60Hz power supply. Do not operate with damaged cords or plugs. Keep electrical connections dry.
- **Water Quality:** This pump is exclusively designed for pumping *clear wastewater*. Do not use it to pump anything containing hard contents, plastics, cardboard, sanitary towels, diapers, hair, tampons, metal objects (clips, hairpins), stones, building materials, floor cloths, or condoms.
- **Liquid Temperature:** The liquid temperature should not exceed 45°C (113°F). Higher temperatures can deform the internal float switch, leading to malfunction.
- **pH Value:** The pH value of the liquid should be within the range of 4 to 10.
- **Hair and Fibers:** It is recommended to install a sink filter to prevent hair or other tough fibers from entering the machine, as excessive hair can tangle on the motor and cause malfunctions or damage.
- **Installation:** Installation should be performed by a qualified professional or someone with plumbing experience.

- **Accessibility:** Ensure the pump is installed in an accessible location for maintenance and inspection.



Figure 2.1: The pump's design emphasizes safety and environmental considerations, featuring IP54 water resistance.

3. PRODUCT OVERVIEW AND COMPONENTS

The FavorCOOL FC-SP-300 is a compact and versatile sewerage pump. Key components include:

- **Pump Unit:** The main housing containing the motor and internal mechanisms.
- **Motor:** A powerful 300W heavy-duty motor with full copper coils for better performance and longer life.
- **Motor Shell:** Unique full stainless steel outer shell, fully waterproof, heavy-duty, and anti-corrosion.
- **Anti-tangle Design:** Three-layer design protecting the motor spindle from hair and thread.
- **Automatic Switch:** Patented magnetic sensor/float switch system for automatic ON/OFF operation.
- **Inlets:** Two built-in Ø1.57" universal side wastewater inlets.
- **Outlet:** Main discharge outlet for pumped water.
- **Vent Cap:** For proper air circulation.
- **Activated Carbon Module:** Replaceable module for odor control.

Included Components:

- Sink Sewage Pump
- Installation Kit (3x Stainless Steel Clips, 2x Sleeves, 2x Stainless Steel Screws, 2x Floor Fitting, 1x Check valve elbow assembly)
- User Instructions (this manual)



Figure 3.1: FavorCOOL FC-SP-300 pump with its installation accessories including clamps, sleeves, screws, and an elbow assembly.



Figure 3.2: Detail of the pump's unique full stainless steel motor shell, designed for durability and water resistance.



Figure 3.3: Illustration of the patented anti-tangle design and pure copper coil, enhancing reliability and preventing blockages.



Figure 3.4: The pump's automatic magnetic sensor switch, which activates and deactivates the pump based on water levels.

4. SPECIFICATIONS

Feature	Specification
Brand	FavorCOOL
Model Number	FC-SP-300
Power	300W
Voltage	110V-120V/60Hz
Maximum Flow Rate	27 Gallons Per Minute (5100 L/h)
Maximum Vertical Lifting Height	22 Feet (6.7 meters)
Maximum Horizontal Distance	250 Feet
RPM	2850 RPM
Product Dimensions (L x W x H)	13.74" x 5.75" x 6.61" (34.9 cm x 14.6 cm x 16.8 cm)
Item Weight	10.46 Pounds (4.74 kg)

Feature	Specification
Material	Stainless Steel, Polypropylene (PP)
Noise Level	Less than 45 dB
Waterproof Rating	IP55
Insulation Class	155 (F)
Certifications	ETL, CE, ROHS



Figure 4.1: Detailed product dimensions for installation planning.

5. SETUP AND INSTALLATION

The FavorCOOL FC-SP-300 is designed for easy installation, particularly in shallow spaces like under-basin areas. It can connect to various fixtures including bathtubs, basins, showers, laundry sinks, and kitchen sinks.

General Installation Guidelines:

1. **Placement:** Position the pump on a stable, level surface. Its compact size makes it suitable for under-basin installation.
2. **Inlet Connections:** Connect the wastewater sources (e.g., sink, shower) to the two Ø1.57" universal side waste water inlets using appropriate plumbing.
3. **Outlet Connection:** Connect the pump's discharge outlet to your main drainage system. Ensure proper sealing to prevent leaks. The pump can uplift water up to 22 feet vertically or 250 feet horizontally.
4. **Ventilation:** Ensure the vent cap is clear and allows for proper air circulation.
5. **Electrical Connection:** Plug the pump into a grounded 110V-120V/60Hz electrical outlet. The automatic switch system ensures safety by keeping electrical components above water.
6. **Water Level Activation:** The pump automatically starts when the internal water level reaches 2.16 inches (5.5 cm) and shuts down at 0.98 inches (2.5 cm).

For a visual guide on installation and various application solutions, please refer to the official product video below:

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Video 5.1: Official product video demonstrating the installation process and various application scenarios for the FavorCOOL FC-SP-300 pump. This video illustrates how the pump can be integrated into different bathroom and utility room setups, including connections for toilets, sinks, and showers, and shows the flow of wastewater through the system.

6. OPERATING INSTRUCTIONS

The FavorCOOL FC-SP-300 operates automatically once properly installed and connected to power.

- **Automatic Operation:** The pump will automatically activate when the wastewater level inside reaches approximately 2.16 inches (5.5 cm).
- **Automatic Shut-off:** The pump will automatically turn off when the water level drops to approximately 0.98 inches (2.5 cm).
- **Quiet Performance:** The pump is designed to operate with a working noise level of less than 45 dB, ensuring a quiet environment.
- **Odor Control:** The replaceable activated carbon module helps maintain an odor-free environment.

7. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your FavorCOOL FC-SP-300 pump.

- **Preventing Blockages:** Install and regularly clean a sink filter to prevent hair and other tough fibers from entering the pump. Excessive hair can tangle the motor and cause damage.
- **Activated Carbon Module:** Periodically check and replace the activated carbon module to ensure effective odor control. Refer to the manufacturer's guidelines for replacement frequency.
- **Cleaning:** The premium PP material outer shell is anti-aging, anti-scratch, and easy to clean. Use a mild cleaner and soft cloth for external cleaning.
- **Inspection:** Periodically inspect all connections for leaks and ensure the pump is securely positioned.

8. TROUBLESHOOTING

If you encounter issues with your FavorCOOL FC-SP-300 pump, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Pump does not start.	No power, water level too low, float switch malfunction, motor issue.	Check power connection. Ensure water level reaches 2.16 inches. Inspect float switch for obstructions. Contact customer service if motor issue is suspected.
Pump runs continuously.	Float switch stuck, continuous water inflow, internal blockage.	Check float switch for obstructions. Verify no constant water source is feeding the pump. Inspect for internal blockages (e.g., hair, debris).
Pump is noisy or vibrating excessively.	Debris in pump, improper installation, worn components.	Disconnect power and check for debris. Ensure pump is on a stable, level surface. If noise persists, contact customer service.
Pump is not discharging water effectively.	Discharge pipe blockage, pump overloaded with inappropriate contents, low voltage.	Check discharge pipes for blockages. Ensure only clear wastewater is being pumped. Verify stable power supply.
Odor present.	Activated carbon module needs replacement.	Replace the activated carbon module.

For issues not listed here or if solutions do not resolve the problem, please contact FavorCOOL customer service.

9. WARRANTY AND SUPPORT

The FavorCOOL FC-SP-300 pump is manufactured with premium materials and under strict quality control. It is proudly certified by ETL, CE, and ROHS.

- **Warranty:** A 1-year manufacturer warranty is provided from the date of purchase.
- **Customer Service:** For any inquiries, technical assistance, or warranty claims, please contact FavorCOOL customer service. 7/24 customer service is available to assist you.

Please retain your proof of purchase for warranty purposes.