

DAB FEKA600

DAB FEKA 600 MA Submersible Pump User Manual

Model: FEKA600

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your DAB FEKA 600 MA submersible pump. Please read this manual thoroughly before using the pump and keep it for future reference.

The DAB FEKA 600 MA is a robust submersible pump designed for draining and lifting light wastewater, greywater, and rainwater in domestic and residential environments. It is suitable for both fixed and mobile installations.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent personal injury and damage to the pump.

- **Electrical Safety:** Ensure the power supply matches the pump's specifications. Always disconnect power before performing any maintenance or installation. Do not operate the pump with a damaged power cord.
- **Water Safety:** Never touch the pump or the water it is pumping while it is connected to power. This pump is designed for water only; do not use it for flammable, corrosive, or explosive liquids.
- **Installation:** Install the pump in a well-ventilated area. Ensure the pump is stable and cannot tip over. Do not lift the pump by its power cable.
- **Children and Pets:** Keep children and pets away from the pump and its operating area.
- **Maintenance:** Only qualified personnel should perform repairs. Use only genuine replacement parts.

3. PRODUCT OVERVIEW

The DAB FEKA 600 MA pump is engineered for reliability and durability, featuring high-quality materials and a robust design.



Figure 3.1: DAB FEKA 600 MA Submersible Pump - Front View.



Figure 3.2: Key Features of the DAB FEKA 600 MA Pump.

This diagram highlights the automatic start/stop float arm, durable construction materials, a flow rate of 15,000 liters per hour, a maximum head of 9 meters, and the ability to handle solids up to 25mm. *Note: Official specifications for flow rate and head are provided in Section 8.*

3.1 Key Components

- **Pump Body:** Constructed from technopolymer for durability.
- **Suction Grille:** Designed for efficient intake and handling of solids.
- **Motor:** Asynchronous submersible motor for continuous duty, with integrated thermal protection for single-phase

versions. Made of AISI 304 stainless steel with an AISI 431 steel shaft for corrosion resistance.

- **Float Switch:** Integrated float switch for automatic operation (in automatic versions).
- **Triple Seal System:** Oil bath triple seal for enhanced reliability.

3.2 Applications

The FEKA 600 MA pump is suitable for various applications, including:



Figure 3.3: Common Applications for the DAB FEKA 600 MA Pump. This image illustrates its use for emptying crawl spaces, pumping dirty water, dewatering construction sites, and managing rainwater.

- Draining crawl spaces
- Pumping dirty water and greywater
- Dewatering construction sites
- Managing rainwater

4. SETUP AND INSTALLATION

Proper installation is crucial for the pump's performance and longevity. Follow these steps carefully.

4.1 Pre-Installation Checklist

- Ensure the installation site is clear of debris and has adequate space.
- Verify the power supply voltage and frequency match the pump's requirements.
- Prepare the discharge pipe and any necessary fittings.

4.2 Installation Steps

1. **Positioning the Pump:** Place the pump on a stable, flat surface in the lowest part of the area to be drained. Ensure the suction grille is not obstructed. The minimum admission level is 38 mm.
2. **Connecting the Discharge Pipe:** Attach a suitable discharge pipe to the pump's outlet. Ensure all connections are watertight. The pump has a 1 1/4" G threaded outlet.
3. **Float Switch Adjustment (for automatic versions):** Adjust the float switch cable length to set the desired ON/OFF levels. Ensure the float can move freely without obstruction.
4. **Power Connection:** Connect the pump to a grounded electrical outlet. Ensure the circuit is protected by a residual current device (RCD).
5. **Testing:** Before full operation, perform a test run to ensure the pump activates and deactivates correctly and that there are no leaks.

For detailed technical specifications and installation diagrams, refer to the official technical sheet: [DAB FEKA Technical Sheet](#).

5. OPERATING INSTRUCTIONS

The DAB FEKA 600 MA pump is designed for straightforward operation.

5.1 Automatic Operation (with float switch)

1. Ensure the pump is properly installed and connected to power.
2. The pump will automatically start when the water level rises and lifts the float switch.
3. The pump will automatically stop when the water level drops and the float switch returns to its lower position.

5.2 Manual Operation (without float switch or for specific tasks)

For manual versions or when bypassing the float switch:

1. Connect the pump to power. The pump will begin operating immediately.
2. Monitor the water level to prevent the pump from running dry for extended periods. The pump can run dry for up to 1 minute without damage.
3. Disconnect the pump from power to stop operation.

Important: Do not allow the pump to run dry for more than 1 minute. Prolonged dry running can cause damage.

6. MAINTENANCE

Regular maintenance ensures optimal performance and extends the pump's lifespan. Always disconnect the pump from the power supply before any maintenance.

6.1 Cleaning the Pump

- Periodically inspect the suction grille for blockages from debris, leaves, or other solids. Clean as necessary.
- Rinse the pump with clean water after use, especially if pumping heavily contaminated liquids.

6.2 Winter Storage

If the pump will not be used for an extended period or during freezing temperatures:

- Drain all water from the pump and discharge pipe.
- Clean the pump thoroughly.
- Store the pump in a dry, frost-free location.

6.3 Professional Servicing

For internal components, motor, or seal inspection, it is recommended to contact a qualified service technician. Do not attempt to disassemble the motor housing.

7. TROUBLESHOOTING

Before contacting support, review the following common issues and their solutions.

Problem	Possible Cause	Solution
Pump does not start.	No power supply. Float switch stuck (automatic version). Thermal overload protection activated.	Check power connection and circuit breaker. Clear any obstructions around the float switch. Allow pump to cool down; it should reset automatically.
Pump runs but no water is discharged.	Suction grille blocked. Discharge pipe blocked or kinked. Air lock in the pump.	Disconnect power and clear the suction grille. Check and clear the discharge pipe. Submerge the pump completely and shake gently to release air.
Pump cycles on and off frequently.	Float switch incorrectly adjusted. Insufficient water volume.	Adjust float switch to allow for a larger water level differential. Ensure adequate water volume for continuous operation.
Reduced flow rate.	Partial blockage in suction or discharge. Pump wear.	Clean suction grille and check discharge pipe. Contact qualified service personnel for inspection.

8. TECHNICAL SPECIFICATIONS

Detailed specifications for the DAB FEKA 600 MA pump.

Parameter	Value
Model	FEKA 600 MA
Power	0.70 HP

Parameter	Value
Voltage	230 V (2.3E+2 Volts)
Max Flow Rate	16 m³/h (16,000 liters/hour)
Max Head	7.5 m
Max Immersion Depth	7 m
Pumped Liquid Type	Wastewater and Rainwater
Free Passage of Solids	25 mm
Min Admission Level	38 mm
Liquid Temperature Range	+0°C to +35°C (domestic use) +0°C to +50°C (other uses)
Protection Class	IP 68
Material	Technopolymer body, Stainless Steel motor (AISI 304), Steel shaft (AISI 431)
Dimensions (approx.)	43.4 x 26 x 19.8 cm (Package) 43 x 21 x 29 cm (Pump)
Weight (approx.)	6.24 kg

For complete technical details, please refer to the official product documentation provided by DAB PUMPS.

9. WARRANTY AND SUPPORT

Information regarding product warranty and customer support.

9.1 Warranty Information


Specific warranty terms and conditions are typically provided with your purchase documentation or can be found on the manufacturer's official website. Please retain your proof of purchase for warranty claims.

9.2 Customer Support

For technical assistance, spare parts, or service inquiries, please contact your authorized DAB PUMPS dealer or visit the official DAB PUMPS website for contact information.

Official commercial profile of the Feka range:[DAB FEKA Commercial Profile](#).



	<p>DAB FEKA 600 Submersible Sewage Pump - Technical Specifications and Performance</p> <p>Explore the DAB FEKA 600 submersible sewage pump. This document provides comprehensive technical data, performance curves, material specifications, electrical details, and dimensions for domestic wastewater applications.</p>
	<p>Guía Rápida de Selección de Bombas DAB: Encuentre la Solución Ideal</p> <p>Descubra la guía rápida de selección de bombas DAB para aplicaciones domésticas, industriales y de riego. Encuentre la bomba perfecta para sus necesidades de agua, desde suministro hasta gestión de aguas residuales.</p>
	<p>NOVA UP MAE - Manuale di Installazione e Manutenzione DAB</p> <p>Manuale completo per l'installazione, l'uso e la manutenzione della pompa sommersibile DAB NOVA UP MAE. Include dati tecnici, avvertenze di sicurezza e guida alla risoluzione dei problemi.</p>
	<p>DAB Pulsar Dry Submersible Pump Quick Start Guide</p> <p>Concise guide for installing and operating the DAB Pulsar Dry submersible pump, including technical specifications, safety precautions, and connection details.</p>
	<p>Manuale di Installazione e Manutenzione DAB DIVERTRON</p> <p>Guida completa per l'installazione, il funzionamento e la manutenzione delle pompe sommergibili DAB DIVERTRON, inclusi consigli tecnici e risoluzione problemi.</p>
	<p>DAB Digital Radio Receiver Controls and Settings</p> <p>A guide to the controls and settings of a DAB digital radio receiver, including station selection, channel lists, search functions, and system preferences.</p>