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› KSB Multi Eco Pro 35 Domestic Water Station with Controlmatic Instruction Manual

KSB Multi Eco Pro 35

KSB Multi Eco Pro 35 Domestic Water Station with Controlmatic Instruction Manual

Model: Multi Eco Pro 35 | Brand: KSB

1. INTRODUCTION

This instruction manual provides essential information for the safe and efficient operation, installation, and maintenance of your KSB Multi Eco Pro 35 Domestic Water Station with Controlmatic. Please read this manual thoroughly before installation and operation to ensure proper use and to prevent damage or injury. Keep this manual for future reference.

2. SAFETY INSTRUCTIONS

Adherence to safety regulations is crucial for preventing personal injury and property damage. Always observe the following safety guidelines:

- **Electrical Safety:** Ensure the power supply matches the specifications of the pump. Always disconnect the power before performing any maintenance or installation work. Do not operate the pump with damaged cables or plugs.
- **Water Safety:** This pump is designed for clean water applications. Do not use it for flammable, corrosive, or explosive liquids. Ensure proper ventilation if installed in an enclosed space.
- **Installation:** Installation must be performed by qualified personnel in accordance with local regulations and standards. Secure the pump to prevent movement during operation.
- **Operation:** Do not run the pump dry. Ensure the suction line is always submerged in water. Avoid operating the pump in freezing temperatures without adequate protection.
- **Maintenance:** Only use original KSB spare parts. Repairs should only be carried out by authorized service personnel.

3. PRODUCT OVERVIEW

The KSB Multi Eco Pro 35 is a domestic water station equipped with a Controlmatic system, designed for automatic water supply from wells, cisterns, or other water sources for household use. The Controlmatic unit manages the pump's operation based on water demand and pressure, providing reliable and consistent water pressure.



Figure 1: KSB Multi Eco Pro 35 Domestic Water Station with Controlmatic system. This image displays the complete unit, featuring a black pump housing, a stainless steel motor casing, and a blue motor cover with the KSB logo. A black Controlmatic pressure switch with an integrated pressure gauge is mounted on top of the pump, connected by a brass fitting. An electrical cable with a European plug is visible, indicating its power connection.

Key components include:

- **Pump Unit:** The main body responsible for water suction and delivery.
- **Electric Motor:** Powers the pump, housed in a durable casing.
- **Controlmatic System:** An automatic pressure switch that starts and stops the pump based on water flow and pressure, protecting it from dry running.
- **Pressure Gauge:** Integrated into the Controlmatic unit, displaying the current system pressure.

4. SETUP AND INSTALLATION

Proper installation is critical for the performance and longevity of your domestic water station. Follow these general steps:

1. **Location Selection:** Choose a dry, well-ventilated, and frost-free location as close as possible to the water source. Ensure the pump is placed on a stable, level surface.
2. **Mounting:** Secure the pump to the ground or a suitable base using appropriate fasteners to minimize vibration and noise.
3. **Suction Line Connection:** Connect a non-collapsible suction hose with a foot valve and strainer to the pump's suction inlet. Ensure all connections are airtight to prevent air ingress. The suction line should have a continuous upward slope towards the pump.
4. **Pressure Line Connection:** Connect the pressure line (delivery pipe) from the pump's outlet to your domestic water system. Install a shut-off valve and, if necessary, a non-return valve in the pressure line.
5. **Priming the Pump:** Before initial startup, completely fill the pump housing and the suction line with water through the designated filling opening until water overflows. Close the filling opening securely.
6. **Electrical Connection:** Connect the pump to a properly grounded electrical outlet. Ensure the voltage and frequency match the pump's specifications.

Consult a qualified electrician or plumber if you are unsure about any installation steps.

5. OPERATING INSTRUCTIONS

Once installed and primed, operating the KSB Multi Eco Pro 35 is straightforward:

1. **Initial Start-up:** After priming, plug the pump into the electrical outlet. The Controlmatic system will automatically start the pump when a water tap is opened and stop it when the tap is closed, maintaining system pressure.
2. **Monitoring:** Observe the pressure gauge on the Controlmatic unit to ensure stable operation. The pump should run smoothly without excessive noise or vibration.
3. **Dry-Running Protection:** The Controlmatic system includes dry-running protection. If the water source runs dry, the pump will automatically shut off to prevent damage. To restart after a dry-run shutdown, replenish the water source, re-prime the pump if necessary, and then reset the Controlmatic unit (refer to the Controlmatic specific manual for reset procedures, if applicable).
4. **Shutting Down:** To temporarily stop the pump, simply close all water taps. For extended periods of non-use, disconnect the pump from the power supply and drain it to prevent freezing.

6. MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your KSB Multi Eco Pro 35:

- **Regular Inspection:** Periodically check all connections for leaks. Inspect the electrical cable for any signs of damage.
- **Cleaning:** Keep the pump and motor free from dirt and debris to ensure proper cooling. Clean the strainer on the foot valve regularly to prevent blockages.
- **Frost Protection:** During winter or in cold climates, drain the pump and all connected pipes completely to prevent damage from freezing water. Store the pump in a frost-free environment if it is to be disconnected.
- **Impeller Check:** If performance decreases, the impeller might be clogged. Disconnect power, drain the pump, and inspect the impeller for obstructions.

7. TROUBLESHOOTING

This section addresses common issues you might encounter:

Problem	Possible Cause	Solution
Pump does not start.	No power supply; Controlmatic in dry-run protection mode; Motor overload.	Check power connection and circuit breaker; Reset Controlmatic after ensuring water supply; Allow motor to cool, then restart.
Pump runs but no water is delivered.	Pump not primed; Air in suction line; Suction line or foot valve clogged; Water source empty.	Re-prime the pump; Check suction line for leaks and tighten connections; Clean foot valve and strainer; Replenish water source.
Insufficient water pressure.	Partial blockage in suction or pressure line; Air in system; Pump wear.	Check and clear blockages; Bleed air from the system; Contact service for inspection.
Pump switches on and off frequently.	Small leak in the system; Controlmatic settings incorrect (less likely for fixed settings).	Check all pipes and connections for leaks; Consult Controlmatic manual for specific adjustments if applicable.

If the problem persists after attempting these solutions, contact qualified service personnel.

8. TECHNICAL SPECIFICATIONS

Feature	Specification
Brand	KSB
Model	Multi Eco Pro 35
Manufacturer Reference	39019126
ASIN	B01FFVS2PS
Color	Black
Style	Compact
Material	Stainless Steel
Power Source	Electric Cable
Maximum Lift Height	8 Meters

9. WARRANTY AND SUPPORT

For information regarding the warranty period and terms for your KSB Multi Eco Pro 35 Domestic Water Station, please refer to the documentation provided at the time of purchase or contact your seller. For technical support, spare parts, or service inquiries, please reach out to your authorized KSB dealer or the manufacturer's customer service department.

Manufacturer: KSB Pumpen

