

DXQ FL-40GMB12V000001

DXQ FL-40 High Pressure Diaphragm Pump User Manual

Model: FL-40GMB12V000001 | Brand: DXQ

1. INTRODUCTION

Thank you for choosing the DXQ FL-40 High Pressure Diaphragm Pump. This manual provides essential information for the proper installation, operation, and maintenance of your pump. Please read it thoroughly before use to ensure safe and efficient performance.



Figure 1: DXQ FL-40 High Pressure Diaphragm Pump

Key Features:

- **Durable Material:** Constructed from high-strength cast iron with powder coating, ensuring waterproof and rust-resistant properties for long-term use.
- **Powerful Automatic Pressure Pump:** A fully automatic self-priming pump with a maximum flow rate of 17 L/min and an inlet PSI set to Max 40PSI (2.76Bar). Operates on 12V AC power.
- **Safety Protection:** Features built-in thermal protection and automatic pressure protection. Designed for long service life with quiet operation and no leakage.
- **Quick Installation:** Compact size, lightweight design, and stable performance facilitate instant assembly.
- **Versatile Applications:** Suitable for various uses including food and beverage filling, liquid transfer, clean machine requirements, road work, and cooling systems.



WIDE APPLICATION

Figure 2: Wide range of applications for the FL-40 pump

2. SAFETY INSTRUCTIONS

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

- Ensure the power supply matches the pump's voltage requirements (12V).
- Do not operate the pump with damaged wiring or connections.
- Avoid running the pump dry for extended periods, as this can cause damage.
- Ensure proper ventilation around the pump during operation.
- Do not use the pump for flammable liquids or in explosive atmospheres.
- Keep hands and loose clothing away from moving parts.
- Disconnect power before performing any maintenance or troubleshooting.
- The pump features built-in thermal protection to prevent overheating. If the pump stops unexpectedly, allow it

to cool down before restarting.



THERMAL PROTECTION

Figure 3: Thermal Protection feature of the pump

3. COMPONENTS INCLUDED

The DXQ FL-40 High Pressure Diaphragm Pump package typically includes the following components:

- 1 x Diaphragm Water Pump
- 1 x Filter
- 3 x Fittings (various types for connection)



Figure 4: Included filter and fittings



Figure 5: Key components and connections of the pump

4. SETUP AND INSTALLATION

Follow these steps for quick and proper installation of your diaphragm pump:

1. **Mounting:** Securely mount the pump in a dry, well-ventilated area using the stable bracket. Ensure it is on a flat, stable surface to minimize vibration.
2. **Inlet Connection:** Connect the water inlet hose to the designated inlet port (often labeled 'Inlet' or indicated by an arrow pointing towards the pump). It is recommended to install the included filter on the inlet line to prevent debris from entering the pump.
3. **Outlet Connection:** Connect the water outlet hose to the designated outlet port (often labeled 'Outlet' or indicated by an arrow pointing away from the pump).
4. **Electrical Connection:** Connect the pump's power wires to a 12V DC power source. Ensure correct polarity (red wire to positive, black wire to negative). It is advisable to install an inline fuse for protection.
5. **Prime the Pump (if necessary):** While this is a self-priming pump, ensuring the inlet line is filled with water

before the first use can aid in faster priming.

6. **Check for Leaks:** After all connections are made, slowly introduce water into the system and check for any leaks at the fittings. Tighten connections as needed.

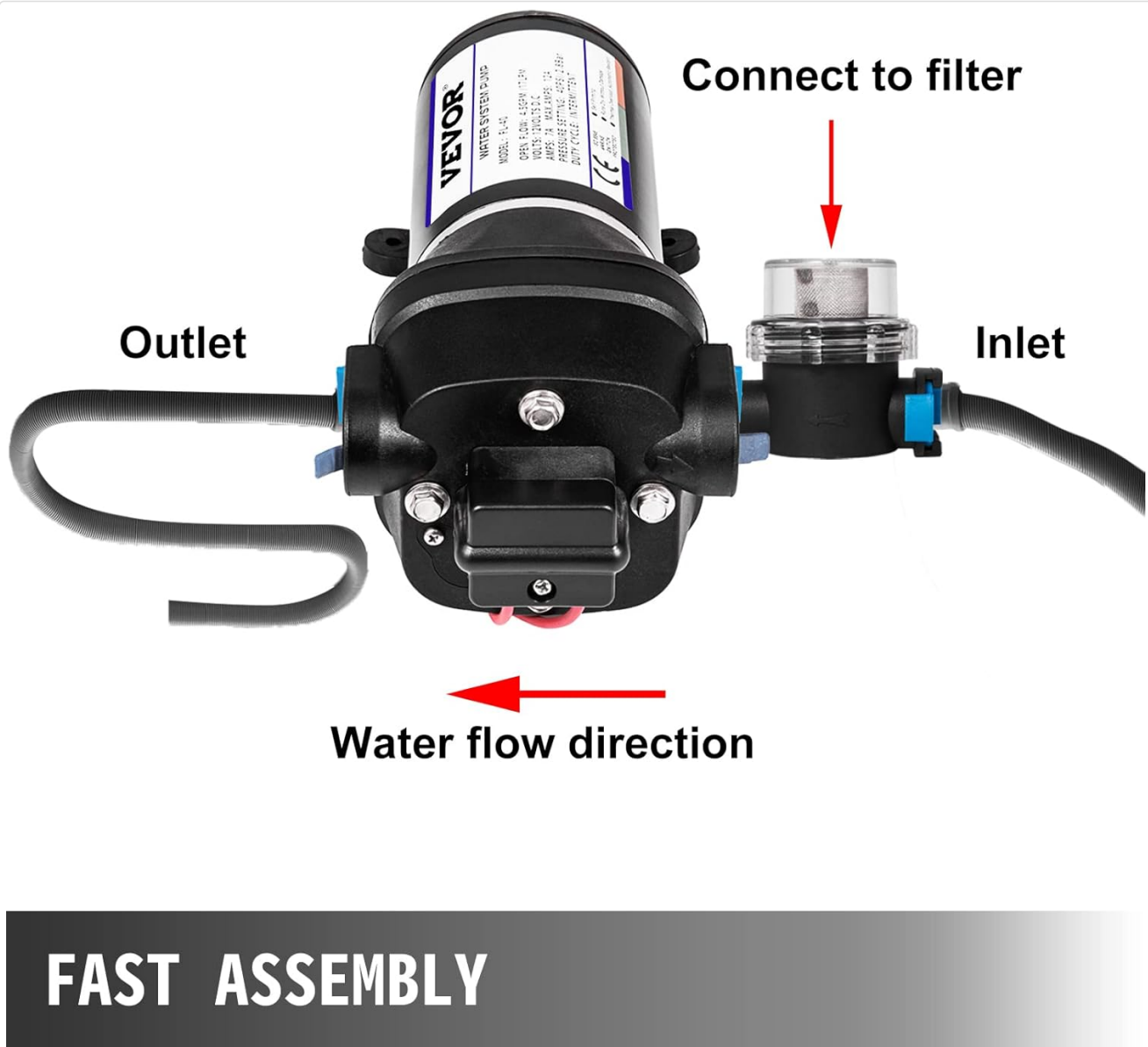


Figure 6: Fast assembly and water flow direction

5. OPERATION

Once installed, operating the DXQ FL-40 pump is straightforward:

- **Starting the Pump:** Ensure all connections are secure and the power source is ready. Apply 12V DC power to the pump. The pump will begin to operate and self-prime.
- **Automatic Operation:** The pump is designed to automatically turn on when water is demanded (e.g., a faucet is opened) and turn off when the demand stops and pressure builds up in the system.
- **Flow and Pressure:** The pump delivers a maximum flow of 17 L/min and maintains pressure up to 40 PSI.
- **Monitoring:** Periodically check the pump for unusual noises, vibrations, or leaks during operation.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your pump:

- **Filter Cleaning:** Regularly inspect and clean the inlet filter to prevent clogging and maintain optimal flow. Disconnect power, remove the filter housing, clean the mesh screen, and reassemble.



OURS



OTHER'

METAL FILTER INCLUDED

Figure 7: The included metal filter for debris prevention

- **Connection Check:** Periodically check all hose and electrical connections for tightness and signs of wear.
- **Winterization (if applicable):** If the pump is used in an environment where temperatures drop below freezing, ensure it is drained completely or protected with RV antifreeze to prevent damage from freezing water.
- **General Cleaning:** Keep the exterior of the pump clean and free from dirt and debris.

7. TROUBLESHOOTING

Refer to the table below for common issues and their solutions:

Problem	Possible Cause	Solution
Pump does not run	No power; Loose wiring; Blown fuse; Motor fault	Check power supply; Secure connections; Replace fuse; Contact support
Low flow or pressure	Clogged inlet filter; Kinked or restricted hose; Air in system; Low voltage	Clean filter; Straighten hose; Bleed air from system; Check power supply
Pump runs continuously	Leak in system; Pressure switch malfunction; Open faucet	Check for leaks and repair; Contact support for pressure switch; Close all faucets
Pump is noisy	Air in system; Loose mounting; Debris in pump	Bleed air; Secure mounting; Disconnect power and inspect pump (if safe)
Water leaks from pump	Loose fittings; Damaged seals/diaphragm	Tighten fittings; Contact support for seal replacement

8. TECHNICAL SPECIFICATIONS

Detailed specifications for the DXQ FL-40 Diaphragm Pump:

Specification	Value
Manufacturer	BananaB (DXQ)
Model Number	FL-40GMB12V000001
Product Dimensions	36 x 12 x 10 cm (approx. 14.2 x 4.7 x 3.9 inches)
Weight	2.4 kg (approx. 5.3 lbs)
Color	Black
Style	Diaphragm
Material	Cast Iron
Power Source	12V DC
Voltage	12 Volts
Max Flow Rate	17 Liters per minute
Max Pressure	40 PSI (2.76 Bar)
Max Lift Height	2 Meters
Batteries Included?	No

Specification	Value
Batteries Required?	No

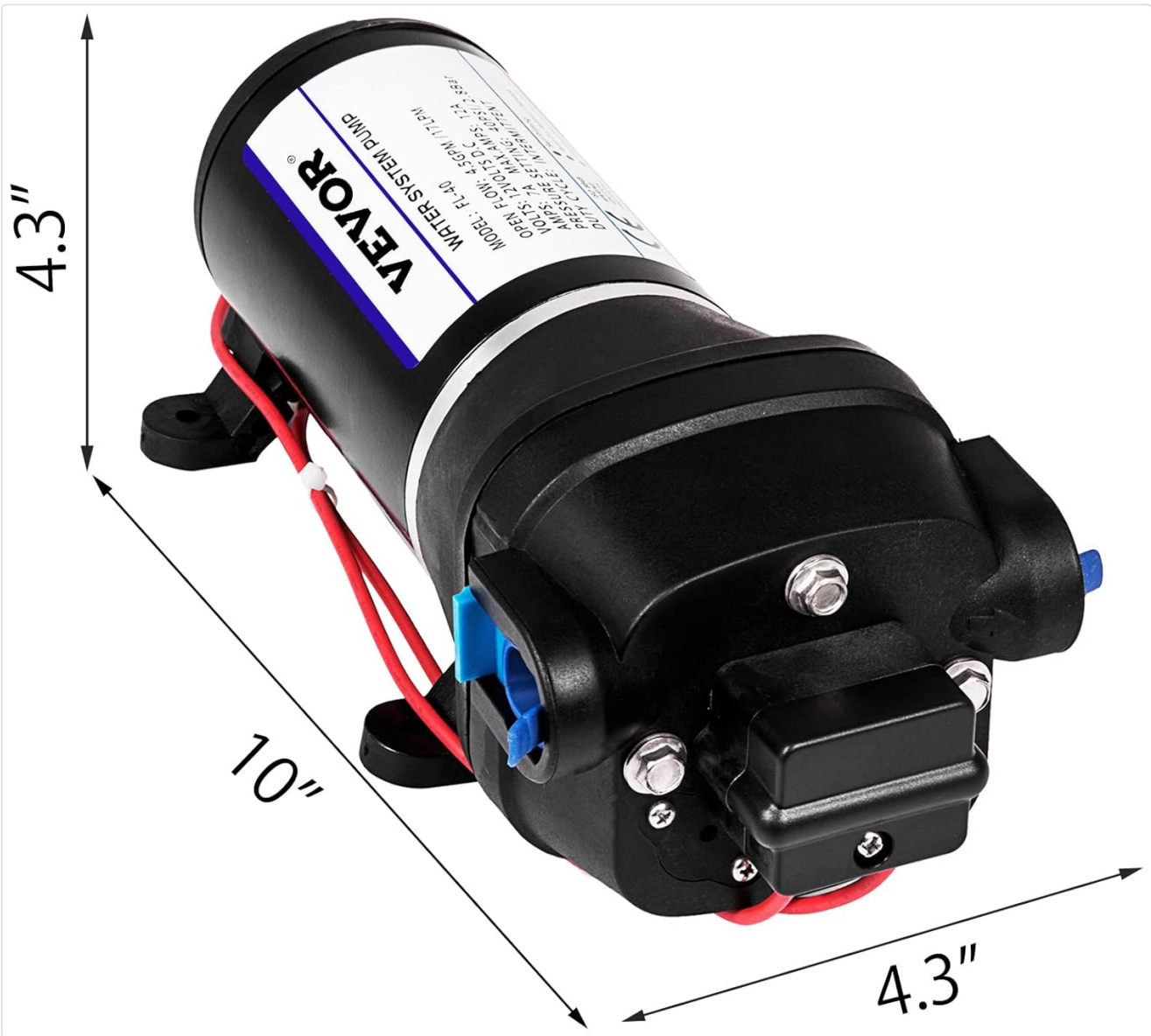
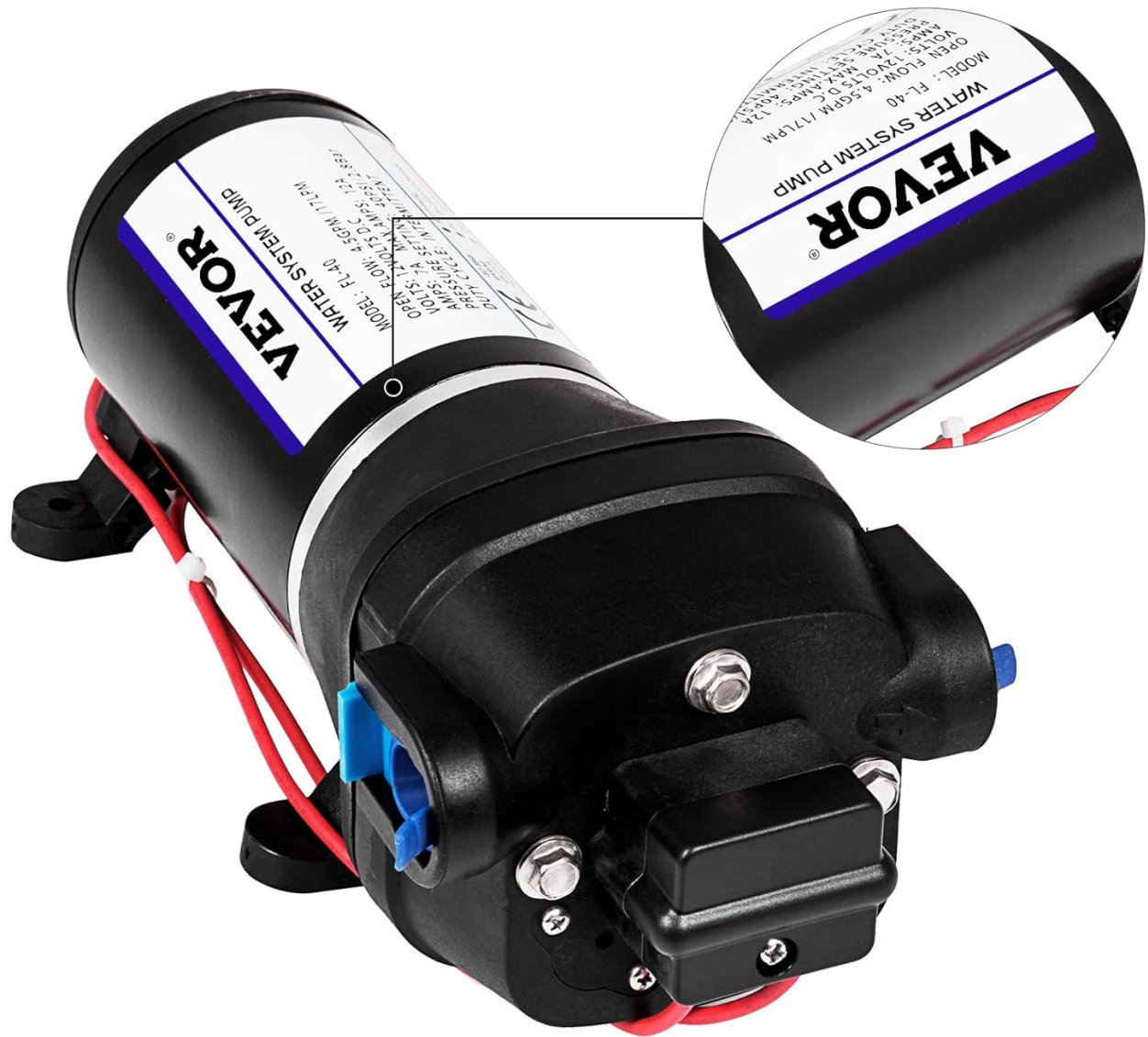


Figure 8: Pump dimensions



CAST IRON MATERIAL

Figure 9: Durable Cast Iron Material

9. WARRANTY INFORMATION


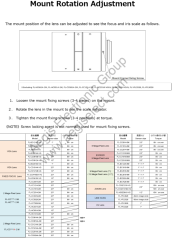
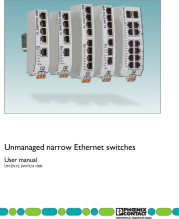

For specific warranty terms and conditions, please refer to the product packaging or contact the seller/manufacturer directly. Keep your proof of purchase for any warranty claims.

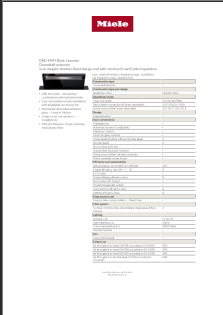
10. CUSTOMER SUPPORT

If you encounter any issues not covered in this manual or require further assistance, please contact the seller or manufacturer through the platform where you purchased the product. Provide your model number and a detailed

description of the issue for faster service.

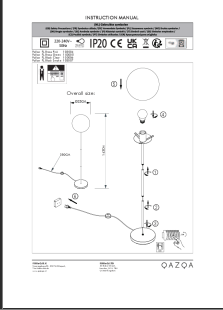
Related Documents - FL-40GMB12V000001

	<p>2007 Nissan Frontier Fuel System Service Manual</p> <p>Comprehensive service manual for the 2007 Nissan Frontier, detailing procedures for the fuel system, including precautions, preparation, fuel tank, fuel pump, fuel filter, and sensor unit. Covers removal, installation, disassembly, assembly, and specifications.</p>
	<p>Fujinon Lens Mount Rotation Adjustment Guide and Specifications</p> <p>Detailed guide on how to adjust the rotation of Fujinon camera lens mounts, including step-by-step instructions and a comprehensive list of lens models with their sensor sizes and torque specifications.</p>
	<p>Phoenix Contact FL SWITCH 1000 Series User Manual</p> <p>This user manual provides comprehensive guidance for Phoenix Contact's FL SWITCH 1000 series of unmanaged narrow Ethernet switches. It covers essential information on safety, installation, operation, technical data, and ordering for various models, ensuring proper deployment and use in industrial networking applications.</p>
	<p>VEVOR Golf Net FL-004/FL-05/FL-05A/FL-P255 User Manual and Warranty</p> <p>Comprehensive guide for VEVOR Golf Net models FL-004, FL-05, FL-05A, and FL-P255. Includes safety warnings, assembly instructions, cleaning, storage tips, and warranty information.</p>



[Miele DAD 4941 Black Levantar Downdraft Extractor Specifications and Installation](#)

Detailed specifications and installation guide for the Miele DAD 4941 Black Levantar downdraft extractor, featuring SmartControl operation and an obsidian black design.



[QAZOA Pallon Floor Lamp Instruction Manual](#)

Detailed instruction manual and safety guide for the QAZOA Pallon floor lamp series, including assembly steps, symbol explanations, and wiring information.