

BLACK+DECKER BXGP800XBE

BLACK+DECKER BXGP800XBE Self-Priming Pump with Vacuum Tank User Manual

Model: BXGP800XBE | 800W | Max Flow 3,500 l/h

[Instructions](#) [Components](#) [Setup](#) [Introduction](#) [Safety](#) [Operation](#) [Maintenance & Support](#) [Troubleshooting](#) [Specifications](#) [Warranty](#)

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your BLACK+DECKER BXGP800XBE Self-Priming Pump with Vacuum Tank. This system is designed for watering applications and pressurizing water within domestic hydraulic systems. Please read these instructions carefully before installation, operation, or maintenance to ensure proper use and to prevent damage or injury.

The BXGP800XBE pump features an 800 W motor, a maximum flow rate of 3,500 liters per hour, and a maximum head of 38 meters. It is equipped with a durable stainless steel nozzle, a robust carbon steel vacuum tank, and a mechanical pressure switch for automated control.

2. IMPORTANT SAFETY INSTRUCTIONS

Always follow basic safety precautions to reduce the risk of fire, electric shock, and personal injury when using this product.

- **Read All Instructions:** Familiarize yourself with the pump's operation and hazards.
- **Electrical Safety:** Ensure the power supply matches the pump's specifications (230 Volts). Always connect to a grounded outlet. Do not operate with damaged cords or plugs.
- **Water Safety:** This pump is designed for clean water only. Do not use with flammable liquids, corrosive chemicals, or water containing large debris.
- **Installation:** Install the pump in a dry, well-ventilated area, protected from direct weather exposure. Ensure stable placement.
- **Maintenance:** Disconnect power before performing any maintenance or cleaning.
- **Children and Pets:** Keep children and pets away from the operating pump.

- **Overheating:** Do not run the pump dry. Ensure adequate water supply to prevent motor damage.
- **Pressure:** Be aware of water pressure. Ensure all connections are secure to prevent leaks and bursts.

3. PRODUCT COMPONENTS

The BLACK+DECKER BXGP800XBE pump system includes several key components designed for efficient water transfer and pressurization.



Figure 1: Overview of the BLACK+DECKER BXGP800XBE Self-Priming Pump with Vacuum Tank. This image displays the main unit, including the motor housing, pump body, pressure gauge, and vacuum tank.

- **Pump Body:** Features a stainless steel front part for long-lasting anti-corrosion protection.
- **Vacuum Tank:** Made of tempered steel alloy, designed to maintain water pressure and reduce pump cycling.
- **Motor:** 800 W electric motor providing the necessary power for water transfer.
- **Pressure Switch:** Mechanical switch for automatic on/off operation based on system pressure.

- **Pressure Gauge:** Indicates the current water pressure within the system.
- **Inlet/Outlet Connections:** G1 threaded connections for easy attachment of hoses.
- **Power Cable:** 1-meter cable for electrical connection.

4. SETUP AND INSTALLATION

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



Figure 2: Example installation of the BLACK+DECKER BXGP800XBE pump in a domestic setting, showing connections to a water supply and discharge pipes.

1. **Placement:** Position the pump on a stable, level surface in a dry, frost-free location. Ensure it is protected from rain and direct sunlight.
2. **Suction Line Connection:**
 - Connect a reinforced suction hose (minimum G1 thread) to the pump's inlet.
 - Ensure all connections are airtight to prevent air leaks, which can affect priming. Use thread sealant tape if necessary.
 - For optimal performance, the suction height should not exceed 8 meters. Install a foot valve with a filter at the end of the suction hose in the water source to prevent debris from entering the pump and to maintain prime.

3. Discharge Line Connection:

- Connect the discharge hose or pipe (minimum G1 thread) to the pump's outlet.
- Ensure connections are secure to withstand operating pressure.

4. Priming the Pump:

- Before first use, or if the pump has run dry, the pump body must be filled with water.
- Locate the priming plug (usually on top of the pump body), unscrew it, and slowly fill the pump casing with clean water until it overflows.
- Replace and tighten the priming plug.

5. Electrical Connection:

- Plug the power cable into a properly grounded 230V electrical outlet.
- Ensure the outlet is protected by a Residual Current Device (RCD) for added safety.

5. OPERATING INSTRUCTIONS

Once installed and primed, your BLACK+DECKER pump is ready for operation.

1. Initial Start-up:

- Ensure the pump is primed as described in the setup section.
- Open any valves on the discharge side to allow water to flow freely.
- Turn on the power switch (located on the motor housing). The pump will start and begin to draw water.
- Monitor the pressure gauge. Once the system reaches the set pressure, the mechanical pressure switch will automatically turn off the pump.

2. Automatic Operation: The integrated mechanical pressure switch allows the pump to operate automatically. It will turn on when the system pressure drops (e.g., when a tap is opened) and turn off when the pressure is restored (e.g., when the tap is closed).

3. Shutting Down:

- For temporary shutdown, simply close all discharge points. The pump will turn off automatically.
- For extended shutdown or maintenance, turn off the power switch and unplug the pump from the electrical outlet.

4. Running Dry Protection: While the pump is self-priming, prolonged running without water can cause damage. Always ensure a continuous water supply.

6. MAINTENANCE

Regular maintenance ensures optimal performance and extends the life of your pump.

- **Disconnect Power:** Always unplug the pump before performing any maintenance.
- **Clean Filter:** If a pre-filter is installed on the suction line, clean it regularly to prevent clogging and maintain flow.
- **Check Connections:** Periodically inspect all hose and pipe connections for leaks. Tighten as necessary.
- **Winterization (for cold climates):**
 - Before the first frost, drain all water from the pump and hoses to prevent freezing damage.
 - Remove the drain plug (if present) and disconnect hoses.
 - Store the pump in a dry, frost-free location.
- **General Cleaning:** Wipe down the exterior of the pump with a damp cloth. Do not use harsh chemicals.

7. TROUBLESHOOTING

Refer to this section for common issues and their potential solutions.

Problem	Possible Cause	Solution
Pump does not start.	No power; faulty switch; motor issue.	Check power connection and outlet. Ensure switch is ON. Consult a qualified technician if motor is faulty.
Pump runs but no water flows.	Pump not primed; air leak in suction line; suction filter clogged; water source empty.	Re-prime the pump. Check all suction connections for airtight seal. Clean suction filter. Verify water source.
Low flow or pressure.	Partial air leak; clogged filter; discharge restriction; worn impeller.	Check suction line for small leaks. Clean filters. Inspect discharge hose/pipe for blockages. Contact service for impeller inspection.
Pump cycles on and off frequently.	Air in the system; small leak in discharge line; vacuum tank pressure incorrect.	Bleed air from the system. Check discharge connections for leaks. Consult manual for vacuum tank pressure adjustment (if applicable, or professional service).
Excessive noise or vibration.	Air in pump; cavitation; loose mounting; foreign object.	Re-prime pump. Ensure adequate water supply to prevent cavitation. Secure pump mounting. Inspect for debris.

If problems persist after attempting these solutions, please contact customer support or a qualified service technician.

8. TECHNICAL SPECIFICATIONS

Feature	Detail
Model Number	BXGP800XBE
Power Consumption	800 W
Voltage	230 Volts
Maximum Flow Rate	3,500 Liters per hour
Maximum Head	38 meters
Maximum Suction Height	8 meters
Threaded Connection	G1
Protection Degree	IPX4
Cable Length	1 meter
Material	Stainless Steel (front part), Tempered Steel Alloy (vacuum tank)
Dimensions (L x W x H)	43.5 x 27 x 49.8 cm
Weight	10.9 Kilograms

9. WARRANTY AND SUPPORT

BLACK+DECKER products are manufactured to high-quality standards. For information regarding warranty coverage, please refer to the warranty card included with your purchase or visit the official BLACK+DECKER website for your region.

For technical assistance, spare parts, or service, please contact BLACK+DECKER customer support. When contacting support, please have your model number (BXGP800XBE) and purchase date available.

Note: Availability of spare parts information is not provided in the product data.