

Metabo 600964000

Metabo Garden Pump P 4000 G User Manual

Model: 600964000

1. INTRODUCTION

The Metabo Garden Pump P 4000 G is designed for efficient garden irrigation, groundwater delivery, and the pumping, draining, and circulation of clear water. This manual provides essential information for the safe and effective use of your pump, ensuring optimal performance and longevity.

Key Features:

- Maintenance-free condenser motor for reliable operation.
- Overload protection system to prevent engine overheating.
- Tool-free water drain plug for easy frost protection and winterization.
- Durable mechanical seal system ensuring extended service life.
- Separate water filling opening for convenient and easy priming.
- Rubberized feet for reduced noise and vibration during operation.
- Ergonomic carry handle for comfortable and secure transport.

2. SAFETY INFORMATION

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

- **Electrical Safety:** Always disconnect the pump from the power supply before performing any maintenance, cleaning, or when the pump is not in use. Ensure the power outlet is properly grounded and protected by a residual current device (RCD).
- **Water Safety:** Do not pump flammable, corrosive, or explosive liquids. The pump is designed for clear water only. Ensure adequate ventilation around the pump during operation.
- **Operation Safety:** Never run the pump dry, as this can cause severe damage. Keep children and unauthorized persons away from the operating pump. Do not operate the pump if it is damaged or if the power cord is frayed.
- **Temperature:** Protect the pump from freezing temperatures. Drain all water from the pump if there is a risk of frost.

3. SETUP

3.1 Unpacking

Carefully remove the Metabo Garden Pump P 4000 G from its packaging. Inspect the pump for any signs of damage that may have occurred during transit. Retain the packaging for future storage or transport.

3.2 Placement

Place the pump on a stable, level, and dry surface. Ensure the pump is protected from direct sunlight, rain, and excessive moisture. Adequate space around the pump is necessary for ventilation and access.



Figure 3.1: Front view of the Metabo Garden Pump P 4000 G, showcasing its compact design and robust construction.



Figure 3.2: Side view of the Metabo Garden Pump P 4000 G, highlighting the motor housing and handle.

3.3 Electrical Connection

The pump is supplied with a European 2-pin plug. An appropriate adapter or plug replacement is required for use in regions with different electrical standards. Ensure the voltage and frequency of your power supply match the pump's specifications (240 Volts).

3.4 Hose Connections

The inlet and outlet ports of the pump are 1-inch BSP (British Standard Pipe) threads. Connect a suitable suction hose to the inlet and a discharge hose to the outlet. It is recommended to use a 1-inch suction hose equipped with a filter and a check valve to prevent debris from entering the pump and to maintain prime. Ensure all connections are tight and leak-free to prevent air ingress, which can affect pump performance.



Figure 3.3: The Metabo Garden Pump P 4000 G set up for garden irrigation, demonstrating typical hose connections.

4. OPERATION

4.1 Priming the Pump

Before the first use, or if the pump has run dry, it must be primed. Unscrew the separate water filling opening cap and fill the pump housing completely with water until it overflows. Replace the cap securely.

4.2 Starting the Pump

Once the pump is primed and all hoses are securely connected, connect the pump to the power supply. The pump will start automatically. Monitor the pump for the first few minutes to ensure proper operation and check for any leaks.

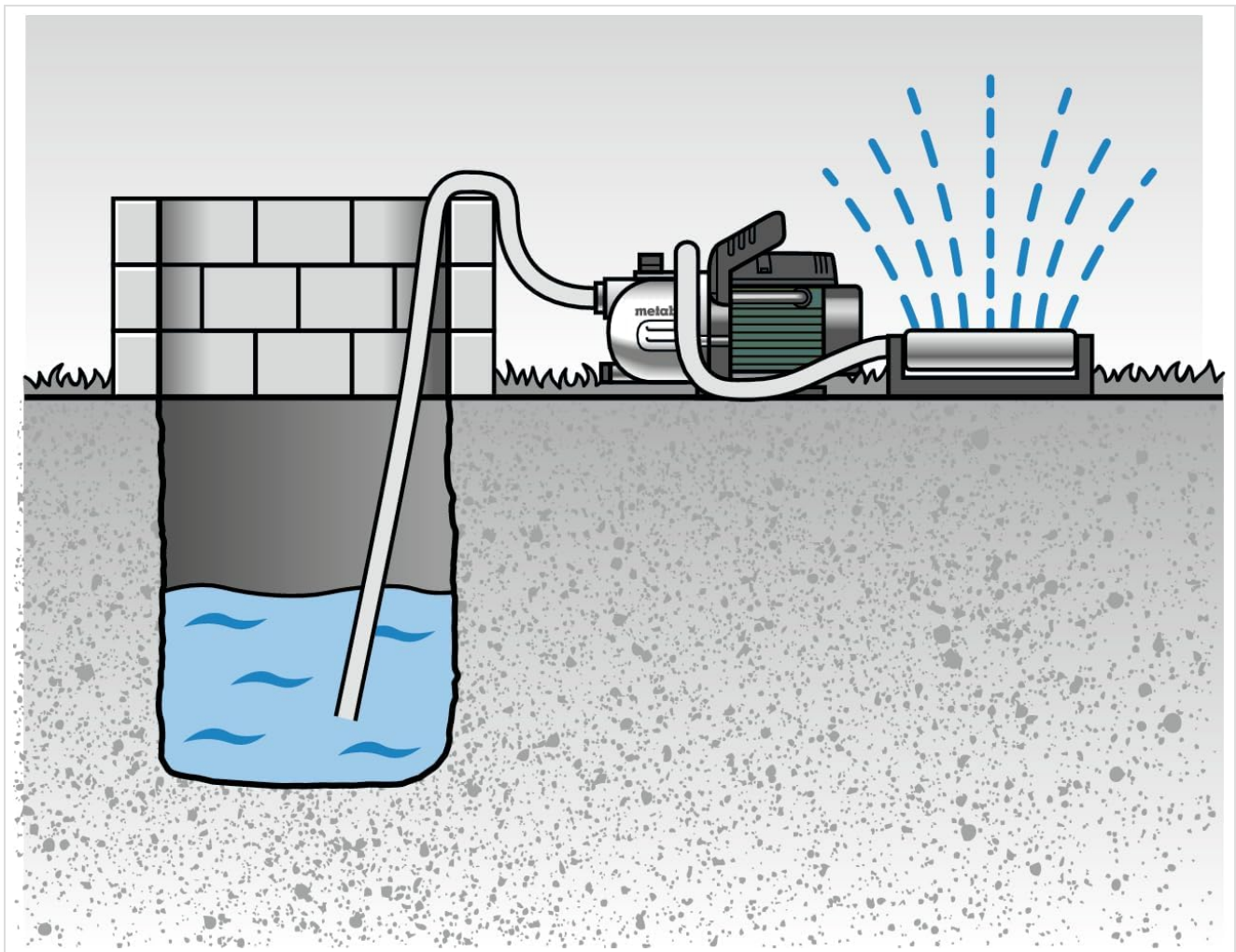


Figure 4.1: Diagram illustrating the Metabo Garden Pump P 4000 G drawing water from a well for irrigation.

4.3 Stopping the Pump

To stop the pump, simply disconnect it from the power supply. If the pump will not be used for an extended period, or if freezing temperatures are expected, proceed with winterization steps.

5. MAINTENANCE

Regular maintenance ensures the longevity and efficient operation of your Metabo Garden Pump P 4000 G.

5.1 Regular Cleaning

Periodically clean the exterior of the pump with a damp cloth. Ensure the cooling fins on the motor are free from dust and debris to prevent overheating. Check the inlet filter on your suction hose regularly and clean it if clogged to maintain optimal flow.

5.2 Winterization

Before the onset of freezing temperatures, it is crucial to drain all water from the pump to prevent damage from ice expansion. Use the tool-free water drain plug located at the bottom of the pump housing to completely empty the pump. Store the pump in a dry, frost-free location.

5.3 Mechanical Seal

The pump features a durable mechanical seal system designed for long service life and is generally maintenance-free. If you observe persistent leaks from the pump housing, it may indicate a worn seal. In such cases, consult a qualified service technician.

6. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your garden pump.

Issue	Possible Cause	Solution
Pump does not start	No power supply Motor overload protection activated Impeller jammed	Check power connection and circuit breaker Allow pump to cool down, then restart Disconnect power, inspect and clear impeller
Low pressure or flow rate	Pump not primed Air leak in suction line Clogged inlet filter Hose kinked or too small	Re-prime the pump Check all suction connections for tightness Clean the inlet filter Use appropriate hose size, ensure no kinks
Pump runs, but no water is delivered	Pump not primed Suction hose not submerged Check valve faulty or missing	Re-prime the pump Ensure suction hose is fully submerged Inspect or install a functional check valve
Pump is excessively noisy or vibrates	Air in the pump or suction line Unstable placement Foreign object in pump	Re-prime the pump, check for air leaks Ensure pump is on a stable, level surface Disconnect power, inspect and remove object if safe

7. TECHNICAL SPECIFICATIONS

The following table outlines the key technical specifications for the Metabo Garden Pump P 4000 G:

Specification	Value
Brand	Metabo
Model Number	600964000
Color	Green
Product Dimensions (L x W x H)	16.54" x 7.87" x 10.63" (42cm x 20cm x 27cm)
Item Weight	26.8 pounds (12.2 Kilograms)
Power Source	Electric (Hand-operated for initial setup)
Maximum Flow Rate	4000 Liters Per Hour
Maximum Lifting Height (Delivery Height)	46 Meters
Voltage	240 Volts
Manufacturer	metabo
Speed	4000 RPM
Measurement System	Metric

Specification	Value
Included Components	Garden pump P 4000 G (600964000); box



Figure 7.1: Dimensional overview of the Metabo Garden Pump P 4000 G.

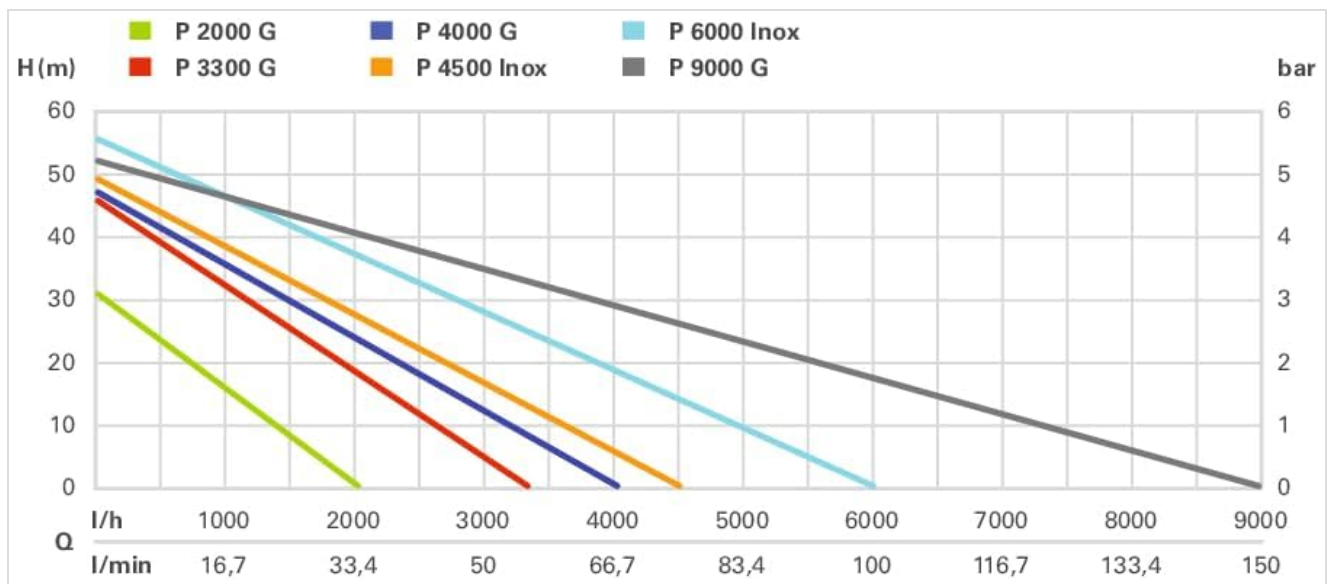


Figure 7.2: Performance curve illustrating flow rate (Q) versus head (H) for various Metabo garden pump models, including the P 4000 G.

8. WARRANTY AND SUPPORT

Metabo provides a manufacturer's warranty for this product. Please refer to the warranty card included with your purchase for specific terms and conditions, including warranty period and coverage details.

For technical support, service, or inquiries regarding spare parts, please contact Metabo customer service or an authorized Metabo service center. Contact information can typically be found on the Metabo official website or in the documentation provided with your pump. Information regarding extended protection plans may also be available from your retailer at the time of purchase.