EN: PUMPION – USER MANUAL

ELECTRIC DRILL PUMP

PRODUCT OVERVIEW

The PUMPION Electric Drill Pump is a self-priming pump designed for transferring and draining water and other suitable non-corrosive, non-flammable liquids.

The pump is operated using a compatible electric drill. **The electric drill is not included with this product and must be provided separately by the user.**

For safe and reliable operation, read this manual carefully before use and follow all instructions and warnings.

PACKAGE CONTENTS



1× Drill pump
2× Pipe sleeves
2× Holders
2× Screws

PRODUCT SPECIFICATIONS

Product name: PUMPION
Product type: Electric drill pump
Dimensions: 12 × 6 × 4 cm
Weight: 215 g
Pipe diameter: Inner diameter 16 mm; outer diameter 19 mm
Recommended use: Water transfer and drainage
Operating temperature: 5°C to 49°C

COMPATIBLE ELECTRIC DRILL

The pump requires an electric drill to operate.

- **Minimum drill speed:** 650 rpm
- **Recommended drill speed:** 1400 rpm
- A higher drill speed results in a higher pumping rate.
- When operating below approximately 1400 rpm, the pumping rate may be reduced and additional time may be required to transfer the liquid.
- Use only a drill that is suitable for continuous operation at the required speed.

NOTE: Do not operate the pump in reverse.

SAFETY INSTRUCTIONS

WARNING! Read all safety instructions before use. Failure to follow these instructions may result in injury, damage to the pump, or property damage.

1. The pump is intended for transferring **water and other suitable non-flammable, non-corrosive liquids only**.
2. **Do not use the pump to transfer gasoline, petrol, alcohol, solvents, fuels, explosive liquids, corrosive liquids, or highly viscous liquids.**
3. Never operate the pump while standing in water or in wet conditions.
4. Keep the electric drill and all electrical connections dry. Never allow the drill, power cord, or electrical connections to come into contact with water.
5. Never operate the pump without liquid. **Dry running can damage the internal impeller.**
6. Do not operate the pump in reverse.
7. Do not leave the pump running unattended.
8. Do not operate the pump continuously for an extended period. Allow the pump to cool if necessary.
9. Keep hands, fingers, clothing, hair, and other objects away from the rotating parts and pump inlet/outlet.
10. Inspect the pump, hoses, connections, and electric drill before each use. Do not use damaged components.
11. Make sure all hose connections are secure and airtight before starting the pump.
12. Keep the work area clean and free from obstacles.
13. Keep the product out of reach of children.

BEFORE FIRST USE

The rubber impeller inside the pump may offer some resistance when the pump is used for the first time. This is normal because the impeller requires a short running-in period.

Before starting the pump:

1. Apply a few drops of suitable lubricating oil to the pump inlet.
2. Make sure the hoses are correctly connected and airtight.
3. Ensure that the liquid to be pumped is suitable for this product.
4. Make sure the pump is adequately lubricated with water or suitable liquid before operation.
5. Check that the pump can rotate freely and that there are no obstructions.

HOSE INSTALLATION

1. Connect a suitable hose securely to the **inlet** of the pump.
2. Connect another suitable hose securely to the **outlet**.
3. The hoses must be securely attached and airtight.
4. Keep the inlet hose as short and straight as reasonably possible. The inlet hose should not exceed **2.75 m**.
5. Avoid kinks, sharp bends, or blockages in the hoses.
6. Use hoses with a suitable **16 mm inner diameter**.
7. Do not use unsuitable or excessively flexible hoses that may collapse during operation.

IMPORTANT: The inlet and outlet should be fitted with approximately **20 cm hose sections**. If longer hoses are required, ensure that the inlet hose remains as short as possible and does not exceed 2.75 m.

PUMPING OPERATION

1. Place the pump on a stable, dry surface or secure it appropriately using the supplied holders and screws.
2. Position the inlet hose in the liquid to be transferred.
3. Make sure the inlet hose is fully submerged and free from kinks or blockages.
4. Connect the electric drill to the pump.
5. Start the drill at a low speed.
6. Gradually increase the drill speed as required. The recommended speed is approximately **1400 rpm**.
7. Watch the inlet hose to make sure the liquid is drawn into the pump.
8. The pump should normally prime within approximately **5–20 seconds**.
9. Once the liquid begins flowing, maintain a suitable drill speed for the desired flow rate.
10. When pumping is complete, stop the drill before disconnecting the hoses.

WARNING! Do not allow the pump to run dry. If the pump does not prime, stop the drill immediately and check the hose connections and inlet hose for kinks, blockages, or air leaks.

PRIMING

For optimum priming:

- Make sure the inlet hose is airtight.
- Keep the inlet hose as short as possible.
- Ensure that the inlet hose is properly connected to the pump inlet.
- Make sure the pump and impeller are adequately lubricated.
- Do not run the pump without liquid.

If the pump does not prime within approximately 5–20 seconds, stop the drill and check the installation before attempting to restart.

PUMPING LIQUIDS CONTAINING SOLIDS

If the liquid contains small solid particles or abrasive material, a suitable **strainer/filter should be installed on the inlet hose**.

Using a strainer can help prevent solid particles from entering the pump and can extend the service life of the internal impeller.

Do not pump liquids containing large or hard particles that could damage the pump.

IMPORTANT OPERATING NOTES

- The higher the drill speed, the higher the liquid flow rate.
- Do not exceed the recommended operating conditions.
- Never run the pump dry.
- Never operate the pump in reverse.
- Do not use the pump for flammable, explosive, corrosive, or highly viscous liquids.
- Do not leave the pump running unattended.
- Do not operate the pump for an extended period without allowing it to cool.
- Stop operation immediately if unusual noise, vibration, leakage, or other abnormal behaviour occurs.

LUBRICATION AND CLEANING

For optimum performance and service life:

1. Apply a few drops of suitable lubricating oil to the pump inlet before use.
2. After pumping, flush the pump with clean water.
3. Allow the pump and hoses to drain and dry before storage.
4. Remove any dirt or residue from the inlet and outlet.
5. Do not use aggressive chemicals or solvents to clean the pump.

IMPORTANT: The pump relies on the liquid being transferred for lubrication during operation. **Never operate the pump dry.**

TROUBLESHOOTING

The pump does not prime

- Stop the drill immediately.
- Check that the inlet hose is properly connected.
- Check all connections for air leaks.
- Make sure the inlet hose is not kinked or blocked.
- Make sure the inlet hose is submerged in the liquid.
- Check that the pump is properly lubricated.
- Make sure the drill is rotating in the correct direction.

The flow rate is too low

- Increase the drill speed within the recommended range.
- Check the hoses for kinks or blockages.
- Check that the inlet hose is airtight.
- Make sure the inlet hose is as short as possible.
- Check the inlet for obstructions.
- If the liquid contains solids, check and clean the inlet strainer.

The pump makes unusual noise or vibrates excessively

Stop the drill immediately and inspect the pump for:

- Blockages
- Foreign objects
- Damaged hoses
- Incorrect installation
- Damage to the impeller

Do not continue using the pump if it is damaged.

MAINTENANCE AND STORAGE

- Clean and flush the pump with clean water after each use.
- Remove any remaining liquid from the pump and hoses before storage.
- Store the pump in a clean, dry place.
- Protect the pump from frost, excessive heat, and direct sunlight.
- Regularly inspect the pump, hoses, connections, and accessories for signs of wear or damage.
- Do not attempt to repair or modify the internal pump mechanism yourself.

OPERATING CONDITIONS

Permitted ambient temperature: 5°C to 49°C
Do not use the pump in freezing conditions or at temperatures outside the specified operating range.

WARNING! Keep the electric drill, power cord, and electrical connections dry at all times. Never operate the pump while standing in water or in wet conditions.