

Eapmic B07MKFQ8VL

Eapmic 1-Inch 2-Stroke 43CC 2HP Portable Water Transfer Pump Instruction Manual

Model: B07MKFQ8VL

1. INTRODUCTION

This manual provides essential information for the safe operation, maintenance, and troubleshooting of your Eapmic 1-inch 2-stroke 43CC 2HP Portable Water Transfer Pump. Please read this manual thoroughly before operating the pump to ensure proper use and to prevent injury or damage.

Safety Information

- Always operate the pump in a well-ventilated area.
- Ensure all connections are secure before starting the pump.
- Do not operate the pump without water.
- Keep hands, feet, and clothing away from moving parts.
- Use appropriate personal protective equipment (PPE).
- Store fuel in an approved container and away from ignition sources.

2. PRODUCT OVERVIEW

The Eapmic 1-inch portable water transfer pump is designed for efficient water movement in various applications such as irrigation, tank filling, and drainage. It features a 2-stroke petrol engine for reliable performance.

Components Included

- Water Pump Unit
- Tools (spark plug wrench, hex keys, screwdriver)
- Hose clamps
- Inlet/Outlet connectors

- Sealing O-rings
- Fuel mixing bottle
- Funnel
- Inlet strainer



Figure 2.1: Eapmic Water Transfer Pump and its accessories. The image shows the red and silver pump unit on a black frame, alongside a white fuel mixing bottle, a red funnel, a black inlet strainer, various hose connectors, O-rings, hose clamps, a spark plug wrench, hex keys, and a screwdriver.



Figure 2.2: Detailed view of the included accessories. This includes a fuel mixing bottle, funnel, inlet strainer, hose connectors, O-rings, hose clamps, a spark plug wrench, hex keys, and a screwdriver.

3. SETUP

3.1 Assembly

1. **Attach Inlet/Outlet Connectors:** Securely fasten the provided inlet and outlet connectors to the pump housing using the O-rings and hose clamps. Ensure a tight seal to prevent leaks.
2. **Connect Hoses:** Attach the suction hose (with strainer) to the inlet connector and the discharge hose to the outlet connector. Use hose clamps to secure all connections. The suction hose must be rigid enough to prevent collapse under vacuum.



Figure 3.1: Side view of the pump, illustrating the inlet and outlet ports where hoses are connected.

3.2 Fuel and Oil Mixture

This pump uses a 2-stroke engine, requiring a specific fuel-to-oil mixture. The recommended ratio is **30:1** (30 parts gasoline to 1 part 2-stroke engine oil).

- Use fresh, unleaded gasoline.
- Use high-quality 2-stroke engine oil.
- Mix the fuel and oil thoroughly in a separate, approved fuel container before pouring into the pump's fuel tank. The included mixing bottle can assist with this.

3.3 Priming the Pump

Before starting, the pump housing must be filled with water to create a vacuum for suction.

1. Remove the priming cap located on top of the pump housing.
2. Slowly pour clean water into the priming port until the pump housing is full.
3. Replace and securely tighten the priming cap.

4. OPERATING INSTRUCTIONS

4.1 Starting the Engine

1. Ensure the pump is on a stable, level surface.
2. Open the fuel valve (if present).
3. Set the choke lever to the "START" or "CHOKE" position (cold engine).
4. Set the engine switch to the "ON" position.
5. Pull the recoil starter handle firmly and smoothly until the engine starts. Do not pull the rope to its full extension.
6. Once the engine starts, gradually move the choke lever to the "RUN" position.
7. Allow the engine to warm up for a few minutes before engaging the pump.



Figure 4.1: Top view of the pump, highlighting the engine and its controls such as the recoil starter and fuel cap.

4.2 Operating the Pump

- Ensure the suction hose is fully submerged in the water source and the strainer is clear of debris.
- Monitor the pump's performance and adjust the throttle as needed.
- Avoid running the pump dry, as this can cause damage.

4.3 Stopping the Engine

1. Reduce the engine speed to idle.
2. Set the engine switch to the "OFF" position.
3. Close the fuel valve (if present) for storage.

5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your water pump.

5.1 After Each Use

- Drain any remaining water from the pump housing and hoses to prevent freezing or corrosion.
- Clean the inlet strainer to remove any debris.
- Wipe down the exterior of the pump.

5.2 Periodic Maintenance

- **Spark Plug:** Inspect and clean the spark plug regularly. Replace if worn or fouled.
- **Air Filter:** Clean or replace the air filter element as needed, especially in dusty conditions.
- **Fuel Filter:** Check and clean the fuel filter.
- **General Inspection:** Check all nuts, bolts, and fasteners for tightness. Inspect hoses for cracks or damage.

5.3 Storage

- For long-term storage, drain all fuel from the tank and carburetor. Run the engine until it stops from lack of fuel.
- Remove the spark plug and pour a small amount of 2-stroke oil into the cylinder. Pull the recoil starter a few times to distribute the oil, then reinstall the spark plug.
- Store the pump in a clean, dry, and well-ventilated area, away from direct sunlight and extreme temperatures.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Engine does not start	No fuel; Engine switch OFF; Choke incorrect; Fouled spark plug	Add fuel; Turn switch ON; Adjust choke; Clean/replace spark plug
Pump does not prime/No water flow	Pump not primed; Air leak in suction line; Suction hose blocked; Suction lift too high	Fill pump housing with water; Check all connections for leaks; Clear blockage; Reduce suction lift
Reduced water flow	Inlet strainer blocked; Partial air leak; Worn impeller	Clean strainer; Check connections; Inspect/replace impeller (professional service recommended)
Engine runs rough	Incorrect fuel mixture; Dirty air filter; Carburetor issues	Verify fuel/oil ratio; Clean/replace air filter; Clean carburetor (professional service recommended)

7. SPECIFICATIONS

Feature	Specification
Inlet and Outlet Diameter	25.4 mm (1 inch)
Engine Model	1E40F (2HP)
Engine Type	Air-cooled, 2-stroke, single cylinder gasoline
Engine Displacement	43.00 cc
Engine Power	1.25 kW / 7000 rpm (2 HP)
Max. Capacity	10 m ³ /h
Suction Height	6 m
Max. Delivery Lift	30 m
Fuel Tank Capacity	1.0 L
Fuel and Lubricant Ratio	30:1
Carburetor Type	Diaphragm type
Starting Method	Manually drawing wound rope (Recoil starter)
Net Weight	5.5 kg
Product Dimensions (L x W x H)	36.5 x 32 x 34 cm (14.37"L x 12.6"W x 13.38"H)

8. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation provided at the time of purchase or contact Eapmic customer service. Keep your purchase receipt as proof of purchase.

Note: Specific warranty terms may vary by region and retailer.