



DIAPHRAGM PUMP - (Petrol 4-stroke)

SAFETY PRECAUTIONS & WARNINGS

It is in the interests of those operating this equipment, and for the safety of others, that these **SAFETY PRECAUTIONS & WARNINGS** are carefully read and understood before operating this equipment.

PURPOSE

1. This pump is designed to pump clean and dirty water (with solids in suspension) from ditches, water logged holes, etc.

PERSONAL SAFETY

2. This equipment is designed for operation by an able bodied adult. Anyone with either temporary or permanent disability must seek expert advice before using it. It must not be operated by minors, or by anyone under the influence of drugs or alcohol.
3. If the equipment is not used in a safe, careful and controlled way, personal injury or injury to others may result.
4. This equipment employs the use of petrol, which can cause fire and explosions if not handled in a safe manner.
5. Before attempting to operate this equipment you must familiarise yourself with the equipment, its controls and operating characteristics.
6. Before starting your work, think and plan ahead to ensure you, and others around you, will be working in a safe environment.
7. When using this equipment, it is recommended that the following items of Personal Protective Equipment (PPE) be worn:
 - Ear defenders providing protection up to 95dB(A).
 - Waterproof gloves.

Note: Other types of work, or environment, may require a higher level of PPE.

OPERATING AREA SAFETY

WARNING: If used indoors or in confined spaces this equipment could cause fatal carbon monoxide poisoning. Never use it in domestic premises and if used in other indoor situations you must ensure you first assess its suitability and the ventilation required for safe use. Mechanical extraction ventilation will be required in almost every case.

8. Before commencing work, ensure that the area you are to operate the equipment is in a safe environment. Erect safety barriers and warning signs as necessary.
9. Make sure that the work area is clear of obstructions and hazards (projections, cables, pipes, etc.).
10. Before commencing work, warn others who may be working in the vicinity of the equipment, to keep clear. If possible place safety barriers around your work area.
11. Anybody who is working near to you will also need to wear the appropriate PPE.
12. Take care not to fall in ditches, holes, etc. containing deep water.
13. Contaminated water can be harmful to people and the environment and therefore it must be discharged in a safe manner, if in doubt seek expert advice.

14. Do not use this equipment where there is a danger of igniting fumes from petrol, or gas cylinders.

BEFORE OPERATING THE EQUIPMENT

SAFETY CHECKS

15. Visually inspect the equipment and all its accessories (pump, engine, strainers, safety barriers, etc.) for serviceability (completeness, signs of damage, undue wear, etc.). Do not use the equipment if found damaged or worn - contact the hire company immediately.
16. Before attempting to operate the equipment, familiarise yourself with the equipments controls. Make sure you understand their purpose and function.
17. Contaminated water may contain harmful bacteria, ensure hands are protected.
18. Do not attempt to operate this equipment in confined or enclosed spaces without adequate ventilation due to the risk of inhaling toxic exhaust fumes, which can prove fatal.
19. If it is intended to pump toxic liquids, seek expert advice regarding extraction and disposal.
20. Before you start the equipment, you must know how to **STOP** it in an emergency.

OPERATING THE EQUIPMENT

PREPARING THE PUMP

21. Make sure the equipment is of the type capable of extracting water from the depth required, seek expert advice if unsure of its capabilities.
22. Ensure the equipment is sited on firm and level ground.
23. Carefully route both the suction and delivery hoses to ensure that they will not become damaged, or cause an obstruction, from either people or vehicle traffic.
24. Ensure all hoses are free from sharp bends or kinks and all connections are secure.
25. Do not operate the pump without the suction pipe strainer fitted and fully immersed in water.
26. The temporary removal of any guardrails must be immediately replaced.
27. Be aware of people close to the pump when it is being operated.

OPERATING THE PUMP

28. Note, the pump is self-priming and will commence pumping water as soon as the engine is started.
29. Check both the engine fuel (petrol only) and oil levels.
30. Turn '**ON**' the fuel tap, '**OPEN**' the throttle slightly.
31. Using one hand to stead the equipment use the other to pull the starter cord, slowly until slight resistance is felt, then firmly and quickly to start the engine. Then guide the starter cord back into place
32. Once the engine has started, adjust the throttle to achieve optimum idling speed. Once the engine has warmed-up, fully open the '**CHOKE LEVER**'.
33. To stop the engine, fully '**CLOSE**' the throttle lever and turn '**OFF**' fuel tap.

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REFUELLING THE ENGINE

34. This is a four-stroke petrol engine; refuel with petrol only.
35. The engine must not be running whilst refuelling. Warm engines must be allowed to cool down first.
36. Do not smoke whilst refuelling.
37. Clean the area around the fuel filler cap, then, remove it.
38. Using a clean funnel, pour petrol into the petrol tank. Care must be taken not to overfill or spill. Petrol spilt on the engine must be wiped dry, that spilt on the ground must be removed and the area covered with sand or earth. Petrol soaked clothes must be removed.
39. Replace the petrol cap securely.

SECURITY AND MAINTENANCE

40. Visually check the condition of the pump, hoses and strainer at the start of each day.
41. If the pump operates erratically, or incorrectly, do not use and do not attempt to repair it. Inform the hire company.
42. Periodically clean the pump, especially the strainer, to ensure it is free from debris.
43. In cold weather, protect the pump from frost and ice.
44. After using the pump, flush the pump through with clean water.
45. When the pump is left unattended for long periods (i.e. overnight), ensure it is made secure to prevent unauthorised use or loss.

COLLECTION & PICK-UP

46. For safety reasons this equipment requires you to use a **VAN** or an **ESTATE**.

