

SUBMERSIBLE PUMP

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. Submersible pumps are designed to pump water. This type of pump may be totally or partially immersed in water. This type of pump must not be used to extract dirty or warm water, or for the extraction of any other forms of liquids.

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. Before attempting to operate this equipment you must familiarise yourself with the equipment, its controls and operating characteristics.
5. Before starting your work, think and plan ahead to ensure you, and others around you, will be working in a safe environment.
6. With regard to electrical safety implications when using this equipment, see the section on 'ELECTRICAL SAFETY' below.

ELECTRICAL SAFETY

7. The operating voltage of these submersible pumps may be either 110v (yellow industrial plug connector) or 230v (square pin or blue plug connector).

110v PUMPS (Yellow Plug)

8. Only use a portable transformer and only plug the transformer directly into the 230v socket.
9. Only suitably rated, heavy-duty 110v extension cable, not longer than 50m (160ft), must be used between the transformer and the equipment. Do not use 230v extension cables.
10. When routing the extension cable, avoid immersion in liquids and trapping the cable in windows, doorways and other areas that could cause damage to the cable. Avoid laying the cable in areas that are subject to site traffic. Ensure all connections are kept dry.

230v PUMPS (Square PIN or Blue Plug)

11. To safeguard against electrical shock, always connect the equipment into a residual current device (RCD) that in turn is plugged-in to a 230v socket.
12. Before using the equipment, press the 'RED' test button on the RCD to ensure that it is working. Re-set the RCD according to the instructions provided.
13. Only suitably rated, heavy-duty 230v extension cable, not longer than 50m (160ft), must be used between the mains supply (RCD) and the equipment.

14. When routing the extension cable, avoid immersion in liquids and trapping the cable in windows, doorways and other areas that could cause damage to the cable. Avoid laying the cable in areas that are subject to site traffic. Ensure all connections are kept dry.

OPERATING AREA SAFETY

15. Before commencing work, ensure that the area you are to operate the equipment in is a safe environment. Erect safety barriers and warning signs as necessary.
16. Make sure that the work area is clear of obstructions and hazards (projections, cables, pipes, etc.).
17. 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.
18. Take care not to fall in ditches, holes, etc. containing deep water.
19. Do not use this equipment where there is a danger of igniting fumes from petrol, or gas cylinders.

BEFORE OPERATING THE EQUIPMENT

SAFETY CHECKS

20. Visually inspect the equipment and all its accessories (cables, connections, 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.
22. Before attempting to operate the equipment, familiarize yourself with the equipments controls. Make sure you understand their purpose and function.
23. Before you start the equipment, you must know how to **STOP** it in an emergency.

OPERATING THE EQUIPMENT

USING THE PUMP

24. Ensure hands are dry before handling electrical switches and connections.
25. Attach a rope to the lifting ring on the pump to lower and immerse the pump into the water.
26. If possible, keep the base of the pump off the bottom of the ditch, pond, hole, etc. to minimise the risk of sucking-up debris that could block the pump.
27. Do not switch the pump 'ON' until it has been immersed in the water.
28. Use the rope to retrieve the pump from the water. Do not use the pumps electrical lead to lower or retrieve the pump.
29. If the pump becomes blocked, switch it 'OFF' and unplug at the mains, retrieve the pump and clear the blockage from the suction inlets.
30. The temporary removal of any guardrails must be immediately replaced.
31. Be aware of people close to the pump when it is being operated.

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SECURITY & MAINTENANCE

32. Visually check the condition of the pump at the start of each day.
33. If the pump operates erratically, or incorrectly, do not use and do not attempt to repair it. Inform the hire company.
34. Periodically clean the pump, especially the suction inlets, to ensure it is free from debris.
35. 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

36. For safety reasons this equipment requires you to use a **LORRY**.

