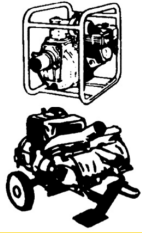




Safety Instructions

THESE INSTRUCTIONS MUST BE READ BY THE USER BEFORE SETTING UP AND STARTING THE PUMP.



16.1 Pumps

- This equipment is designed to be operated by someone with normal ability. Persons with a disability or injury must assess whether their disability, when using the equipment, will affect their health and safety and the safety of others.
- It should only be operated by someone with experience of similar equipment.
- This equipment must not be used by anyone whose competence is impaired, for example by drink or drugs.

- 1 The pump must be operated correctly according to the manufacturer's or owner's operating instructions, which are available on request if required.
- 2 **DO NOT** attempt to use a pump designed to pump clean water for pumping sludge, slurries or even muddy water.
- 3 **DO NOT** remove the suction strainer (if fitted) to the suction hose.
- 4 **CHECK** that all the hose connections are secure before starting to pump.
- 5 Avoid sharp bends in the delivery hose.
- 6 Position the pump on firm level ground. Secure if necessary to prevent accidental movement during pumping.
- 7 When substances hazardous to health are being pumped wear protective gloves, boots, overalls and suitable eye protection.
- 8 Substances hazardous to health and/or certain other waste materials must not be disposed of by pumping onto land or into rivers and drains. It is your legal duty to prevent this or to seek advice in preventing it.
- 9 Stop the pump before re-positioning it or clearing the suction strainer or filters.
- 10 Before disconnecting a delivery hose, always ensure that it is empty.
- 11 In freezing weather disconnect the suction and delivery hoses after pumping and drain the water from the pump body.
- 12 After pumping seawater, corrosive fluids, sludge or dirty water, flush the pump and hoses with clean fresh water.
- 13 **DO NOT** attempt repairs. Contact the Hire Company.

Electric Pumps

- 14 **CHECK** that the voltage of the supply is correct. The pump will be either 110 volts or 230 volts.
- 15 The use of low voltage pumps at 110V (CTE) will effectively eliminate the risk of death and greatly reduce the degree of injury from an electric fault.
- 16 Use a pump with the lowest possible voltage to suit the job.
- 17 **DO NOT** use domestic plugs and sockets on construction sites, they are not robust enough.
- 18 When using a 230V pump the risk of injury or death from electric shock is unacceptably high unless the following precautions are taken:
 - a) Use RCD power breakers at the supply socket to give protection for both the tool and its power cable.
 - b) The RCD should be protected from dust, wet weather, mechanical damage and vibration.
 - c) Position power cables where they are less likely to be damaged.
 - d) The tools, cables and RCDs should be checked every day (or every shift) using the following as a guide:
 - **CHECK** that bare wires are not visible
 - Make sure that cables are not damaged and free from cuts and abrasions (apart from light scuffing)
 - **CHECK** that the plug is in good condition, the casing is free from cracks, the pins are not bent or the socket is not blocked with debris or dirt
 - **ENSURE** that there are no taped or other non-standard joints in the cable
 - **CHECK** that the cable covering has not been pulled out of the grips at the plug or equipment. (The coloured insulation of the internal wires should not be visible)
 - **CHECK** the outer casing of the equipment for damage and check for loose or missing parts or screws
 - Make sure that there are no overheating or burn marks on the plug, cable and equipment
 - **CHECK** the operation of the RCD power breaker by operating the test button.

- 19 Pumps using 110 volts should be checked weekly as in 18(d) above.
- 20 **CHECK** regularly that all ventilation grills or holes on motor housings are clear and free from dirt.
- 21 If the automatic cut-out operates, **ALLOW** the motor to cool before re-starting.
- 22 **DO NOT** carry the pump by its cable or disconnect a plug by pulling its cable.
- 23 Unplug from the power supply before making adjustments or repositioning the pump.

Petrol or Diesel Powered Pumps

- 24 Position equipment on firm and level ground. Secure if necessary to prevent accidental movement.
- 25 **CHECK** that guards are secure. **NEVER** operate the pump with missing or defective guards.
- 26 Before starting the pump check how to stop it.
- 27 **DO NOT** smoke when refuelling. **NEVER** refuel with the engine running.
- 28 Replace the fuel caps securely on the engine and fuel container. Wipe up any spillage immediately.
- 29 Fuel containers should be in good condition and leak proof.
- 30 **DO NOT** use the pump in a hazardous or explosive atmosphere, or where fuel has been spilt.
- 31 **DO NOT** run the pump in a badly ventilated or enclosed area where exhaust fumes can sink into a basement or excavation.
- 32 If the pump has to be used in an enclosed area ducting may be used to discharge exhaust fumes to a safe place.
- 33 **CHECK** that there is no combustible material against the exhaust system. The exhaust pipe and silencer get very hot.
- 34 In the event of a leak of fuel or oil developing, stop the pump **IMMEDIATELY**.
- 35 If warning lights show or gauges register outside normal limits, switch off the engine.
- 36 **DO NOT** top up with coolant while the engine is running. **ALLOW** the radiator to cool before removing the radiator cap and topping up.
- 37 **CHECK** that all couplings are secure. If a coupling parts the hose will 'whip'. **NEVER** attempt to catch and hold it down, turn off the air.
- 38 **DO NOT** lift or lower the pump using its air hose.
- 39 Only use compress air for cleaning down equipment with extreme caution. Use eye protection and ear defenders.
- 40 **DO NOT** use compressed air to clean yourself and **DO NOT** direct it at another person.
- 41 **CHECK** that air pressure is released from the hose before disconnecting any coupling.
- 42 **DO NOT** attempt repairs. Contact the Hire Company.



The UK's Leading Association for Plant & Equipment Hire Professionals

CPA. 27/28 Newbury Street, Barbican, London EC1A 7HU
Tel: 020 7796 3366 Fax: 020 7796 3399
Email: enquiries@cpa.uk.net www.cpa.uk.net

This leaflet is one in a comprehensive series of equipment safety instructions available from the CPA