For guidance on managing construction health risks go to
www.hse.gov.uk/construction

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1401 Safety Guidance
110/230V v:112016

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Submersible Pump

The rules and procedures in force where people are at work may require the person responsible for this equipment to carry out a specific risk assessment.

It is important to read this entire leaflet BEFORE using the submersible pump

1. Electricity is dangerous and must always be used with great care.
2. Electricity and water can make a hazardous combination. Keep electrical equipment away from rain and water, unless it is specially designed for such use.
3. This submersible pump is designed for partial or total immersion in water to be pumped.
4. The action of this submersible pump can cause damage and possibly injury if the equipment is not used in a careful and controlled way.
5. If you have not used a submersible pump before, familiarise yourself with the equipment before you start the main task.
6. Plan your work and think ahead to make sure you will always be working safely.
7. You should have at least the following items of protective equipment: rcd if using a 230 volt (mains) supply.
8. This equipment must not be used by minors, or by anyone under the influence of drugs or alcohol.
9. This submersible pump is designed for operation by an able bodied adult. Anyone with either temporary or permanent disability must seek expert advice before using it.

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WORK AREA

1. Do not use this submersible pump where there is a danger of explosion. It will ignite fumes from petrol, or gas cylinders.
2. If you are pumping from water where there is a risk of falling in make sure that the area is clear and safe and that no-one is near to you or could distract you.
3. Protect other people from the danger. Warn others to keep away. Put up barriers.

SUBMERSIBLE PUMP

1. Check your pump, cables, and plugs. If anything is found damaged, do not use the submersible pump – contact the hire company.
2. Check that the plug on your equipment matches your supply. Do not try to use force connections or improvise them.
3. Equipment with a cylinder yellow industrial plug fitted is designed to run off a special 110v supply. The hire company will have provided a portable transformer if you need to power the equipment from a normal mains 230v supply. If a portable transformer has been supplied, take care not to injure yourself when moving it about – it may be heavier than you think. Equipment designed to run directly from 230v mains will have either a normal square pin plug fitted, or a blue industrial plug.

ELECTRICAL SAFETY

Your equipment will only operate on one voltage: it will be 110v or 230v. 110v equipment will have a yellow industrial plug fitted. 230v equipment will have either a normal square pin plug fitted, or a blue industrial plug. Read the instructions below for your equipment.

110 VOLT MACHINES (YELLOW PLUG)

1. If you are using a portable transformer, plug the transformer directly into the 230 volt socket. Do not use any 230v extension cables.

Before Starting Work...

2. If you need to use an extension cable, follow any special instructions, you should only use a suitably rated heavy duty 110v extension cable, not longer than 50 meters (160 feet). You must only use an extension cable between the transformer and equipment.
3. Lay the extension cable out carefully avoiding liquids, sharp edges, doorways or windows where it might be trapped, and places where vehicles might run over it. Unroll it fully or it will overheat and could catch fire.
4. Make sure that any extension cable connections are dry and safe.

230 VOLT MACHINES (SQUARE PIN OR BLUE PLUG)

1. Use a residual current device ("rcd") plugged directly in to the 230volt socket. Plug your equipment into the rcd. This will help to protect you against electric shock if the cable or equipment gets damaged.
2. Use the "TEST" button to check that the rcd is working each time you use it. Reset the rcd according to the instruction supplied with it.
3. If you need an extension cable, follow any special instructions given by the hire company. If the hire given any special instructions, you should only use a suitable rated heavy duty one, not longer than 50 meters (160 feet). Plug it directly into the rcd.
4. Lay it out carefully avoiding liquids, sharp edges, doorways or windows where it might be trapped, and places where vehicles might run over it. Unroll it fully or it will overheat and could catch fire.
5. Make sure that any extension cable connections are dry and safe.

Useful Reference Points • www.hae.org.uk/businessguard

Using the Submersible Pump

1. Switch off from the mains supply and remove the plug before lifting it out of the water.
2. Lift the pump from the water by the rope attached to the lifting ring. Do not lift by the electrical cable.
3. Keep the suction inlets on the pump clear of rubbish or mud.
4. If the pump is blocked, switch off and unplug before trying to clear it.
5. Make sure the cable does not get trapped on any sharp edges.
6. If you think the cable may be cut or damaged in any way, switch off and unplug at the mains before inspecting it. If the cable attached to the submersible pump is damaged, stop using the equipment. Contact the hire company.
7. If an extension cable has been damaged, do not use it again.
8. Take care not to accidentally pull the plug from the socket.
9. Switch off and remove the plug from the socket before leaving the pump unattended.
10. If your equipment does not work properly do not attempt to repair it. Contact the hire company.
11. You may want to read this leaflet again. Please keep it until you finish work.

Please keep this leaflet safely as it may be required for future reference

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