

The instructions recommended within this document apply to normal risk conditions. If the Electric Submersible Pump is to be operated in a dangerous or hostile environment, the user/client is responsible for conducting an appropriate risk analysis and applying suitable controls to mitigate those additional risks.

This instruction should be read in conjunction with the Risk Assessment.

GENERAL SAFETY

- Wear safety footwear, safety gloves and Hi-Vis jacket)
- Check lead for cuts, breaks prior to use
- Ensure electrical tag is in date
- Ensure cables and connections are not damaged or wet
- Ensure guard over impeller is firmly secured
- Ensure clamps on outlet hose are tight and intact prior to starting pump
- Check power source has working circuit breaker

TRANSPORT OF PUMP

- Ensure pump is firmly tied down on transport vehicle without causing damage to unit
- Ensure cables are stored to prevent damage
- For 3" and 4" Pumps 2 person or mechanical lift is required

OPERATING CONDITIONS

- Do not turn on electric power until all checks have been made
- Check whether cables or connections are wet or damaged
- DO NOT USE IF ANY DAMAGE IS IDENTIFIED
- Do not stretch cables to prevent failing of connections • Barricade are if necessary to prevent other persons contacting the unit if damaged

SHUT DOWN PROCEDURE

- Shut down power source
- Uncouple connections
- Coil cables to prevent kinking and store carefully

INSPECTION AND MAINTENANCE

- Inspect unit, cables and connections for any damage

The above instructions must be followed at all times If any of the instructions are not possible, contact the site supervisor for an assessment of any safety requirements

Electronic Pump Risk Assessment

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Likely Risk Issue	Who/ What may be harmed? (Specific Persons)	What is the Rate Level? (Rate risk as Low, Medium or High)	What Risk Control Actions Needs to Be Taken? (What needs to be considered so that the risks are identified and effectively controlled)	Time Frame
Electrocution	Participants Operators Spectators Staff	Severity of Risk (S)- 3 Likelihood of Risk (L)- 2 Overall Risk (S x L)= 6 MEDIUM	<ul style="list-style-type: none"> • Check lead for cuts, breaks prior to starting pump • Ensure electrical test tag is current and in date • Use supplied rope to lower pump into hole - never use the lead • Ensure circuit breaker of power source is functioning correctly 	Every Hire
Cuts & Burns	Participants Operators Spectators Staff	Severity of Risk (S) - 1 Likelihood of Risk (L) - 2 Overall Risk (S x L) = 2 LOW	<ul style="list-style-type: none"> • Operator to wear gloves when handling pump • Lift pump from handle and lower using rope • Never throw pump into hole 	Every Hire
Damage t back from incorrect lifting	Participants Operators Spectators Staff	Severity of Risk (S)- 1 Likelihood of Risk (L)-2 Overall Risk (S x L)= 2 LOW	<ul style="list-style-type: none"> • Check weight of pump and request assistance if 2 people lift or mechanical lift • Use proper lifting techniques 	Every Hire

Calculation of Risk Evaluation

Severity of Risk (S) is judged by evaluating the effects of the hazard if the risk occurs. This is evaluated as Minor = 1, Major = 2, Serious = 3

Risk Likelihood (L) - The likelihood of the harm occurring is evaluated on the basis of: Unlikely =1, Possible = 2, Likely = 3

Overall Risk is calculated by multiplying the figure for Severity (S) and Likelihood (L).

The overall risk figure calculated is related to the Risk Level of either Low: 1 to 3; Medium: 4 to 6 or High: 7 to 9

NB This is a generic risk assessment only. It is advisable to carry out a site-specific assessment prior to using this equipment.