

WARNINGS



- **WARNING** – Do not try to modify or change the equipment in any way as this could void any warranty or cause damage to this equipment or persons using it
- **WARNING** – Do not use the power cable as a lifting device for the pump as this may become frayed
- **WARNING** – Do not operate the pump while a person is in the pump sump
- **WARNING** – Ensure unit is switched off before attempting to clean
- **CAUTION** – Do not touch the pump with bare hands during or just after operation, as the unit may become hot
- **NOTE** – Do not use the pump for oil, seawater or strong acid, as this may damage the pump
- **NOTE** – Take care when lowering the pump into its location of use, dropping the unit could affect its ability to operate correctly

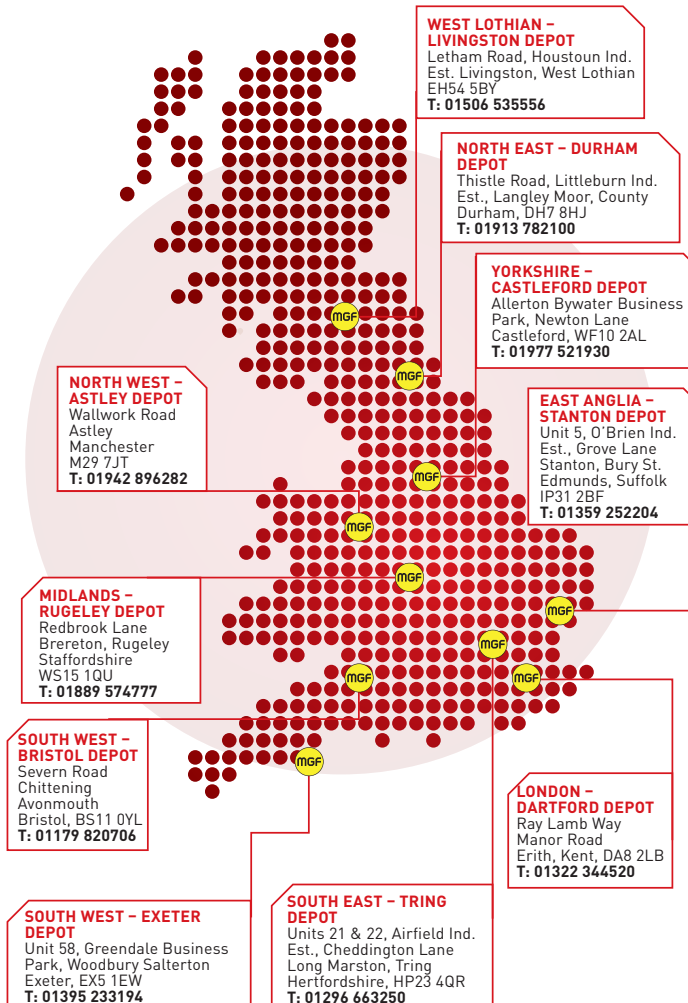


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USER GUIDE: 110V SUBMERSIBLE PUMP



**PLEASE READ & UNDERSTAND THIS USER GUIDE
PRIOR TO COMPILING A SAFE SYSTEM OF WORK
AND USING THE EQUIPMENT SUPPLIED**

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1. IMPORTANT NOTES

- For the use of MGF supplied equipment only.
- Ensure users are fully trained in the operation of this equipment and a site specific safe system of works is in place and adhered to.
- It is essential that site specific risk assessments are undertaken.
- Do not try to modify or change the equipment in any way as this could void any warranty or cause damage to equipment or persons using it.
- If in doubt concerning the integrity of any part of the equipment DO NOT USE IT

2. 110V SUBMERSIBLE PUMP

- You have been supplied with a Tsurumi - HS Single Phase Industrial Pump this is a heavy duty, yet lightweight, 110V submersible pump.
- With a side outlet arrangement, this design also has an integral stirring device, which is combined to reduce blockages when used in very dirty site water.
- This model has a cast aluminium body, cast iron pump casing and an impact resistant PVC strainer base for durability during robust handling.
- The urethane vortex impeller offers excellent wear resistance in site applications where the water contains sand and silt in suspension, thus maintaining performance and reliability.
- Available with or without a float switch.
- Supplied with 10 metres of heavy duty, rubber power cable.
- Tsurumi - HS2.4(S) Pump Specifications

Motor voltage	110v
Rated Power	0.40kW
Discharge Port	2"
Head	12.2M
Flow	3.4 L/S
Degree of protection	IP 68
Depth of submersion	Max. 10M
Max. solid handling	7mm
Weight	11.3KG
Suitable for:	Rain water, ground water, sand water

3. MGF EXAMINATION AND TESTING

- Upon return to MGF the equipment will be cleaned, inspected and function tested by a competent and trained MGF safety technician.

4. VISUAL INSPECTION/FUNCTIONAL TEST - PRIOR TO USE

- Before the start of each use ensure that the equipment is clean and free from debris and there are no obvious defects.
- Ensure that the item has a green tag, stating when it was last inspected.
- Each item comes with a unique ID number, please ensure this can be found.

5. OPERATION INSTRUCTIONS

- Ensure the lay-flat hose is securely attached to the outlet point.
- Use the handle on the top of the unit to lower it into your chosen position, you may attach a rope to this handle to lower the unit into position if required
- Route the hose as straight as possible, excessive bending of the hose could restrict the flow of water, reduce and pumping volume or clog the hose with mud.
- Ensure the pump is sat upright
- If using a model with a float switch, the pump will only operate when the float is in an upright position, when the water level is above approximately 0.6M from the base of the pump.
- Operate the pump for 10 minutes to ensure operation is as expected, if so then continue to use as required. Abnormal operation would include excessive vibration, noise or smell from the unit.
- Do not operate the pump below the Continuous Running Water Level (approx. 90mm).
 - **WARNING** – Do not use the power cable as a lifting device for the pump as this may become frayed
 - **WARNING** – Do not operate the pump while a person is in the pump sump
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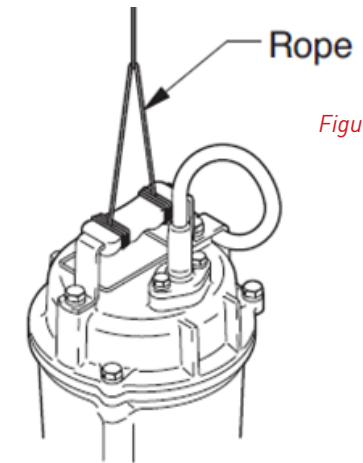


Figure 1

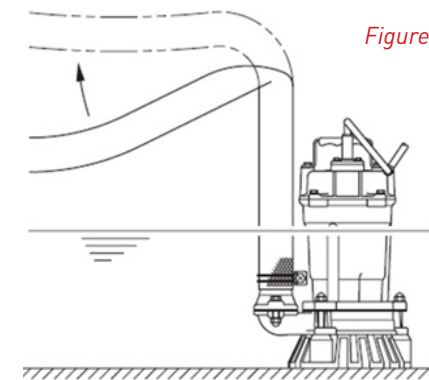


Figure 2

6. AFTER OPERATIONS

- Wash with tap water
- Remove any debris from the outer surface of the pump.
- Remove any debris from the impeller
- If the pump is to be left immersed in water, operate at least once a week.
- **WARNING** – Ensure unit is switched off before attempting to clean

7. STORAGE AND CARE

- When not in use the submersible pump must be stored in a dry, clean area.