

MULTISTAGE SUBMERSIBLE PUMP MODEL NO: CSD4

PART NO: 7239250

OPERATION & MAINTENANCE INSTRUCTIONS ({X



GC0220 - ISS 2

INTRODUCTION

Thank you for purchasing this CLARKE submersible pump.

The pump is designed for domestic use, such as drying out basements and garages subject to flooding, and for pumping drainage wells, rainwater collecting traps etc.

Due to its compact shape, it is also used as a portable pump for emergency situations such as for drawing water from tanks or rivers, draining swimming pools and fountains, excavations or underpasses. Also suitable for gardening and general hobby activity.

This pump should not be used in swimming pools, ponds or hot tubs where people are present, or for pumping hydrocarbons (petrol, diesel fuel, combustible oils, solvents, etc.) in accordance with the accident-prevention regulations in force.

It is not designed for continuous use, but for occasional use over a limited period and should be cleaned before putting away in storage. See the section "Maintenance".

ENVIRONMENTAL RECYCLING POLICY



Through purchase of this product, the customer is taking on the obligation to deal with the WEEE in accordance with the WEEE regulations in relation to the treatment, recycling & recovery and environmentally sound disposal of the WEEE.

In effect, this means that this product must not be disposed of with general household waste. It must be disposed of according to the laws governing Waste Electrical and Electronic Equipment (WEEE) at a recognised disposal facility.

GUARANTEE

This product is guaranteed against faulty manufacture for a period of 12 months from the date of purchase. Please keep your receipt which will be required as proof of purchase.

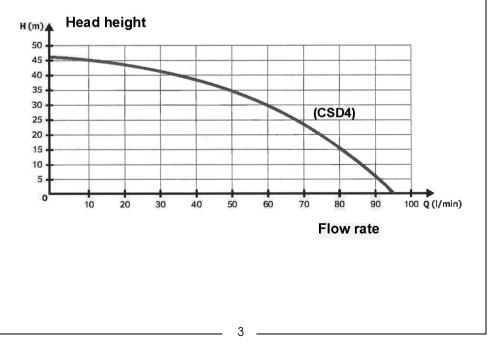
This guarantee is invalid if the product is found to have been abused or tampered with in any way, or not used for the purpose for which it was intended.

Faulty goods should be returned to their place of purchase, no product can be returned to us without prior permission. This guarantee does not effect your statutory rights.

SPECIFICATIONS

Dimensions (D x H)	148 mm (major diameter) x 400 mm	
Weight	9.35 kg	
Cable Length 15 m		
Power Supply	230V ~ 50Hz	
Ingress Protection	IPX8	
Outlet Thread Diameter	1"BSP	
Rated Power	1100 W	
Maximum Head Height	46 m	
Maximum Flow	95 I/min	
Lowest Residual Water	12 mm	
Water classification	Clean	
Maximum Particle Size	1 mm	
Maximum Water Temperature	35°C	

PUMP PERFORMANCE CURVE



Parts & Service: 020 8988 7400 / E-mail: Parts@clarkeinternational.com or Service@clarkeinternational.com

SAFETY INSTRUCTIONS

GENERAL

- 1. Read all these instructions before use and save them for future reference.
- 2. An approved residual current device (RCD) which has a tripping current of less then 30 mA **MUST** be used for all operations.
- 3. The electrical supply must be the same as that on the rating plate.
- 4. ALWAYS make sure that your hands are dry when connecting or disconnecting from the mains supply.
- 5. NEVER pull the mains lead to disconnect the pump from the mains socket.
- 6. The mains plug must be kept away from the water at all times.
- 7. DO NOT allow children or unauthorised people to touch the pump, cables or connections.
- 8. Disconnect the pump from the mains supply when not in use.
- 9. If necessary have the pump repaired by a qualified person.
- 10. Keep the mains lead away from heat, oil and sharp edges.
- If you have to use an extension lead with this product, it must be designed for outdoor use and incorporate a cable suitable for use with Class I appliances.
- 12. Disconnect the pump from the electrical supply and wear gloves during servicing or maintenance.

PUMP SPECIFIC

- 1. DO NOT pump explosive / flammable liquids or chemicals.
- 2. NEVER allow the pump to run dry or operate out of the water.
- 3. Submersible pumps should always be submerged and stored vertically.
- 4. Disconnect the pump from the mains supply before placing it into or removing it from the water.
- 5. ALWAYS check the plug, and all cables for damage before use.
- 6. NEVER carry or lower the pump by the power cable. Always use the handle or a rope tied securely to the handle.
- 7. DO NOT use the pump if the water is liable to freeze, as this can cause damage to the pump. Remove the pump from the water and store it in a frost free location. NEVER insert your fingers into the pump whilst it is connected to the mains.

- 8. NEVER use the submersible pump in a swimming pool when there are people or animals in the pool.
- 9. Keep the pump clear of any sediment by standing it on a platform or brick or suspending it at a suitable depth.

ELECTRICAL CONNECTIONS



WARNING: READ THESE ELECTRICAL SAFETY INSTRUCTIONS THOROUGHLY BEFORE CONNECTING THE PRODUCT TO THE MAINS SUPPLY.

Connect the mains lead to a standard, 230 Volt (50Hz) electrical supply through an approved 13 amp BS 1363 plug or a suitably fused isolator switch.

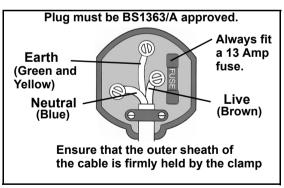
If the plug has to be changed because it is not suitable for your socket, or because of damage, it must be removed and a replacement fitted, following the wiring instructions shown below. The old plug must be discarded safely, as insertion into a power socket could cause an electrical hazard.



WARNING: THE WIRES IN THE POWER CABLE OF THIS PRODUCT ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE: BLUE = NEUTRAL BROWN = LIVE YELLOW AND GREEN = EARTH

If the colours of the wires in the power cable do not agree with the markings on the plug.

- Connect the BLUE wire to the terminal marked N.
- Connect the BROWN wire to the terminal marked L.
- Connect the YELLOW AND GREEN wire to the terminal marked E or ÷.



AN APPROVED RESIDUAL CURRENT DEVICE (RCD) WHICH HAS A TRIPPING CURRENT OF LESS THAN 30 mA MUST BE USED.

If you are not sure, consult a qualified electrician. DO NOT try to do any repairs.

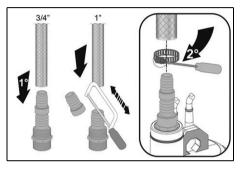
INSTALLING THE PUMP

Remove all packaging and make sure that the pump has no visible damage. Dispose of all packaging appropriately.

FITTING THE STEPPED ADAPTER

The stepped hose adaptor supplied is designed to be used for either screw type hose connection or push fit.

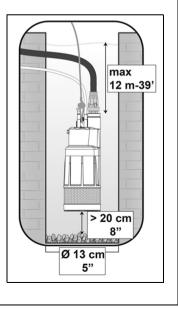
- Stepped adapter 1" (25mm) / ¾"(20mm) hose
- Screw the adaptor to the discharge port and connect a suitable hose (not supplied) to either the screwed end or push-fit.
 - Suitable hoses are available from your local CLARKE dealer.
 - The stepped adaptor can be cut off with a hacksaw if a larger hose is to be used.



- 2. Trim the adaptor to size if required.
 - Reducing the hose diameter will affect the maximum flow rate.
- 3. When push fitting the hose to the adaptor use a jubilee clip to secure it. Do not overtighten.

POSITIONING THE PUMP

- 1. Stand the pump upright on a flat surface in the water that you want to drain.
- 2. If there is sediment in the pool or pond, place the pump on blocks, to avoid blocking the water inlet.
- 3. Ensure the pump is positioned with adequate space around the inlet and to the maximum depth of installation shown.
 - The pump is supplied with 15 metres of power cable.
- 4. Always raise and lower the pump using the lifting handle and a rope attached to it if required. Never lift or lower the pump using the power cable.



- The water inlet must be fully submerged before the pump is switched on and the pump be standing upright.
- 5. Connect the power cable to a high sensitivity residual current device (RCD) which has a tripping current of less then 30mA.

OPERATING THE PUMP



WARNING: CHECK THE PUMP FOR DAMAGE BEFORE USE, DO NOT USE THE PUMP IF IT IS DAMAGED IN ANY WAY.

- 1. Switch the mains power supply on.
 - The pump will begin to drain water until it reaches the 12 mm limit.
- 2. When finished, disconnect the pump from the power supply.



CAUTION: DO NOT ALLOW THE PUMP TO RUN DRY

• The pump is fitted with a thermal overload switch. If the pump overheats for any reason, it will automatically switch the pump OFF. Once the pump has cooled (at least 5-10 minutes), it will automatically restart.

AFTER USE

If the temperature is expected to be lower than 0°C, ensure there is no residual water in the pump which could freeze and damage the pump.

If the pump has been used with substances that tend to form a deposit, or with water containing chlorine, rinse it after use with a powerful jet of water in order to avoid the formation of deposits which would reduce the performance of the pump.

MAINTENANCE



WARNING: BEFORE CHECKING THE CONDITION OF THE PUMP, ENSURE IT IS UNPLUGGED FROM THE MAINS SUPPLY. IF THE UNIT IS HARD WIRED, ENSURE THE CIRCUIT BREAKER IS OPEN.

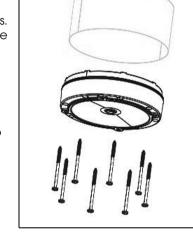
This pump should require no maintenance other than regular cleaning. If the pump shows signs of wear or damage contact your CLARKE dealer for advice.

GENERAL CLEANING

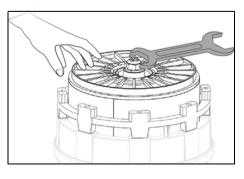
Check the pump regularly to ensure the water inlet is clear of leaves or other debris. If foreign material has been drawn into the pump inlet, further cleaning may be required by back-flushing the pump with water pressure from a hose.

CLEANING THE IMPELLER

- 1. Switch off the electric power supply to the pump and drain the pump.
- 2. Unscrew the 8 retaining screws on the base of the filter shown.
- 3. Remove the base and the filter.
- 4. Holding the impeller and unscrew the nut as shown.



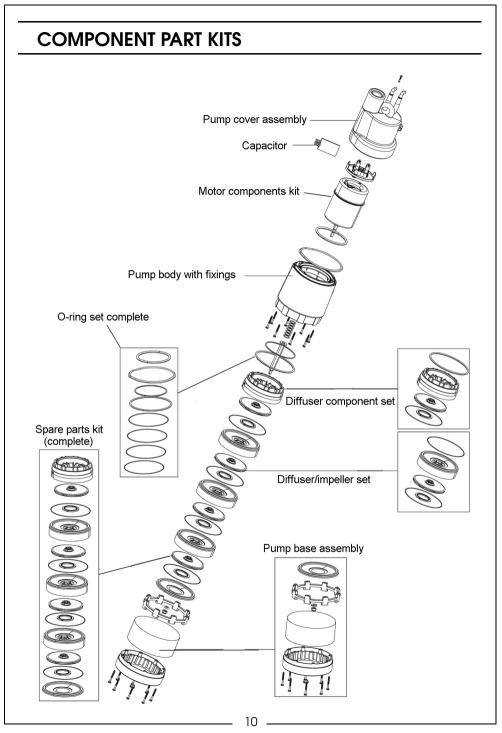
- 5. Take out the impeller, the diffuser, the ring and the O-ring.
- 6. Repeat for all the impellers.
- Wash the pump with clean water to remove any contamination between the motor and the pump jacket.
- 8. Clean the impellers and check that they can all turn freely.
- 9. Assemble the parts, proceeding in inverse order to disassembly.



TROUBLESHOOTING

PROBLEM	SOLUTION	
PUMP WILL NOT START	 Make sure that the power is switched on. Check fuse (consult an electrician if in doubt). If extension lead is used, check connections (consult an electrician if in doubt). 	
	 Internal thermal cut-out has not re-set. Leave for 5-10 minutes and try again. 	
	5. The impeller may be jammed. Disconnect from the mains supply and remove any objects that may be obstructing the impeller.	
	If the pump still fails to start, consult your CLARKE dealer for advice.	
PUMP WILL START BUT NOT PUMP	 Check that the inlet is not blocked. Check that the discharge tube is not clogged or obstructed. The head may be too great, i.e. you are trying to lift the water too great a distance for the pump to cope with Specifications on page 3. Air bubble in the pump, produced during the plunge. Plunge the pump again, at an angle, and shake it whilst lowering to remove any air trapped in the system. 	
	5. Impeller may be damaged - Consult your CLARKE dealer.	
PUMP STOPS RUNNING	 Thermal overload has operated. Leave for 5-10 minutes and try again. A foreign object has immed the impeller. 	
	 A foreign object has jammed the impeller. 	

If this does not solve your problem, please contact the CLARKE service department. Do not attempt to repair the pump yourself. Repairs must be carried out by your CLARKE dealer.



Parts & Service: 020 8988 7400 / E-mail: Parts@clarkeinternational.com or Service@clarkeinternational.com

DECLARATION OF CONFORMITY

Œ	Clapko	
	ANEGER EDA	
	INTERNATIONAL	
	Hemnall Street, Epping, Essex CM16 4LG	
	DECLARATION OF CONFORMITY	(
Thi	s is an important document and should be	retained.
We hereby declare tha	this product(s) complies with the following directiv	e(s):
2014/30/EU	Electromagnetic Compatibility Directive.	
2014/35/EU	Low Voltage Equipment Directive.	
2011/65/EU F	Restriction of Hazardous Substances.	
The following standard	s have been applied to the product(s):	
-	03+A2:2010, EN 60335-1:2012+A11:2014.	
The technical document aforementioned directive authorities.	ation required to demonstrate that the product(s) mee (s) has been compiled and is available for inspection	et(s) the requirement(s) of the by the relevant enforcement
	The CE mark was first applied in: 2019	
Product Description:	Sub Multistage Pump 1100W	
Model number(s):	CSD4	
Serial / batch Number:	N/A	
Date of Issue:	31/05/2019	
Signed:	Sphillarde	
	J.A. Clarke	
	Director	
16-0114 Sub multistage pum	1100W D.O.C (rv0)	Page 1 of 1

11 ------

