

Clarke®



SUBMERSIBLE CLEAN WATER PUMP MODEL NO: CWP200

PART NO: 7939210

OPERATION & MAINTENANCE INSTRUCTIONS



ORIGINAL INSTRUCTIONS

GC0719 - ISS 1

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 or infiltrations from roof gutters, 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 emergency 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.

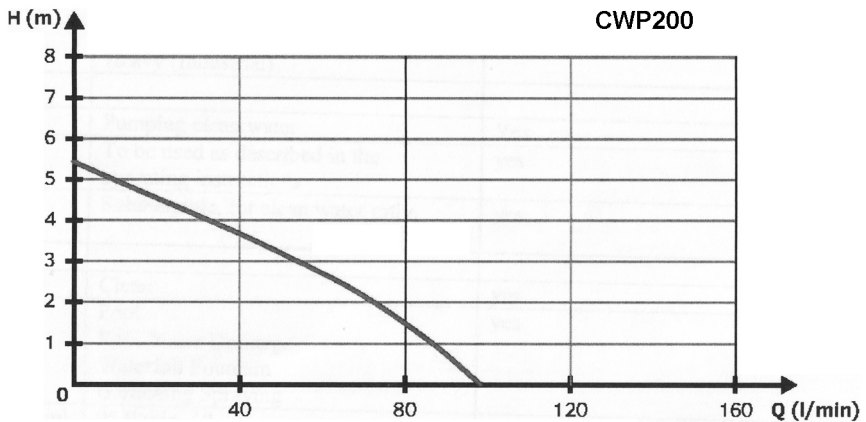
In effect, this means that this product must not be disposed of with general household waste. It must be disposed of according to the laws governing Waste Electrical and Electronic Equipment (WEEE) at a recognised disposal facility.

If disposing of this product or any damaged components, do not dispose of with general waste. This product contains valuable raw materials. Metal products should be taken to your local civic amenity site for recycling of metal products.

SPECIFICATIONS

Dimensions (L x W x H)	150 x 205 x 285/245 mm (handle raised/lowered)
Weight	3.75 kg
Cable length	10 m
Power supply	230V ~ 50Hz
Ingress protection	IPX8
Outlet thread diameter	1¼" BSP female
Rated power	220W
Maximum head height	5.5 m
Maximum particle size	0.5 mm
Maximum flow	95 l/min at pump
Minimum water depth	2-3 mm
Maximum water temperature	35°C

PERFORMANCE CURVE



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 than 30mA **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/cable.
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.
11. 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. Do not use the pump if damaged. Refer to qualified service personnel for repair.
7. NEVER carry or lower the pump by the power cable or float switch always use the handle or a rope tied securely to the handle.
8. NEVER use the submersible pump in a swimming pool when there are people or animals in the pool.

9. NEVER insert your fingers into the pump whilst it is connected to the mains.
10. Keep the pump clear of any sediment by standing it on a platform or brick or suspending it at a suitable depth.
11. 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.

ELECTRICAL CONNECTIONS



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

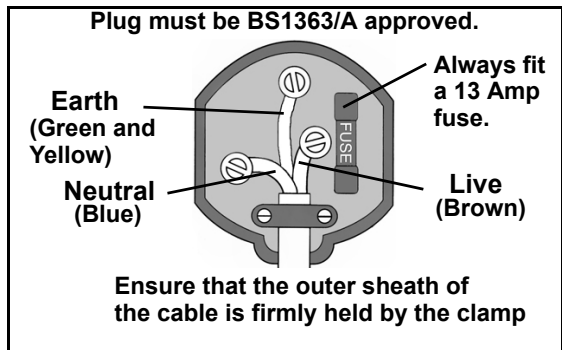
Connect the mains lead to a standard, 230 Volt (50Hz) electrical supply through an approved 13 amp BS 1363 plug, or a suitably fused isolator switch. If the plug has to be changed because it is not suitable for your socket, or because of damage, it must be removed and a replacement fitted, following 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 \perp .



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

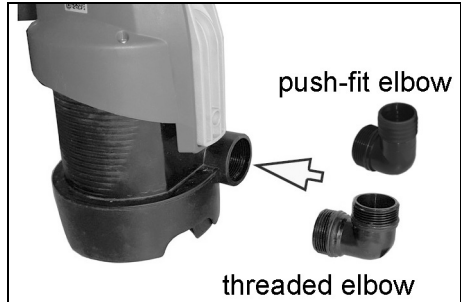
If you are not sure, consult a qualified electrician. DO NOT try to do any repairs.

INSTALLING THE PUMP

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

FITTING THE ELBOW

1. Screw one elbow into the outlet port as shown. Three elbows are supplied;
 - Threaded elbow
 - 2 x Push-fit elbow
2. Connect a suitable hose (not supplied) to the elbow using either the screwed end or push-fit.
3. When push fitting the hose to the adaptor or elbow, use a jubilee clip and check it is secure. Do not overtighten.
 - Hoses to suit each of the above adaptor sizes are all readily available from your local Clarke dealer.



FITTING THE MULTI-STEP ADAPTER

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

- The multi step adaptor will suit 1" (25mm) and ¾" (20mm) BSP hoses.
1. Screw the adaptor into the threaded elbow and connect a suitable hose (not supplied).
 - The adaptor can be cut off with a hacksaw to provide clearance if required, when 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.



POSITIONING THE PUMP

1. Stand the pump upright on a flat surface in the pool 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 - recommended minimum base area of 460 x 460 cm and the maximum depth of any installation - 5.5 metres. The pump is fitted with 10 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 standing upright.
5. Connect the power cable to a high sensitivity residual current device (RCD) which has a tripping current of less than 30mA.

OPERATING THE PUMP



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

CAUTION: DO NOT ALLOW THE PUMP TO RUN DRY

1. Switch the mains power supply on.
 - The pump will begin to drain water.
2. When pumping is finished, disconnect the pump from the power supply.
 - 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

When the temperature is expected to be lower than 0°C, ensure there is no water residue 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 or encrustations which would reduce the characteristics 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.

Check the pump regularly to ensure the water inlet is clear of leaves or other debris taking care to remove any debris from around the impeller. Further cleaning may be required by back-flushing the pump with water pressure from a hose.

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.

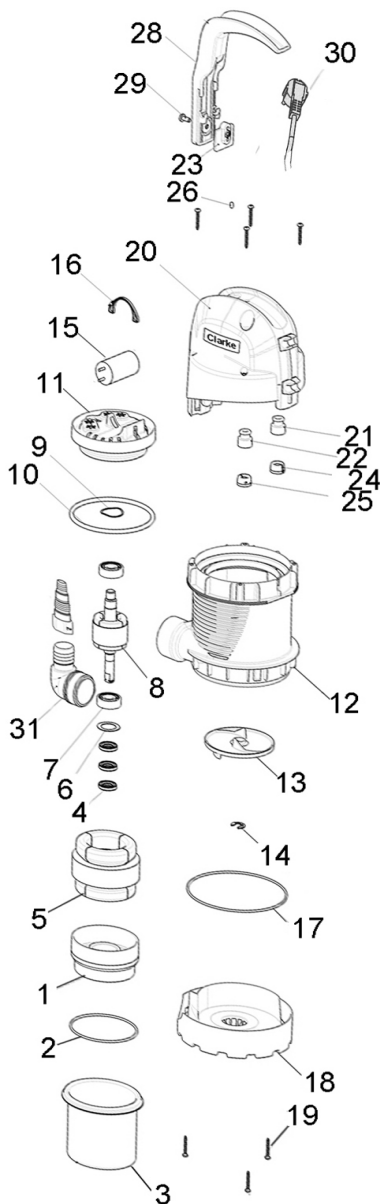
This guarantee does not effect your statutory rights.

TROUBLESHOOTING

PROBLEM	SOLUTION
PUMP WILL NOT START	<ol style="list-style-type: none"> 1. Make sure that the power is switched on. 2. Check fuse (consult an electrician if in doubt). 3. If extension cable is used, check connections (consult an electrician if in doubt). 4. 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. 6. Water level too low. 7. If the pump still fails to start, consult your CLARKE dealer for advice.
PUMP WILL START BUT NOT PUMP	<ol style="list-style-type: none"> 1. Check that the inlet is not blocked. 2. Check that the discharge tube is not clogged or obstructed. 3. 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 2. 4. 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	<ol style="list-style-type: none"> 1. Thermal overload has operated. Leave for 5-10 minutes and try again. 2. Pump has run dry. 3. 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.

COMPONENT PARTS



1	Impeller Surround
2	O-ring
3	Lower Body
4	O-ring set
5	Motor Winding
6	Washer
7	Motor Bearing
8	Motor Rotor
9	Wave Washer
10	Sealing Ring
11	Upper Enclosure
12	Main Housing
13	Impeller
14	Circlip
15	Capacitor
16	Retaining Clip
17	Sealing Ring
18	Lower Enclosure
19	Screw
20	Upper Moulding
21	Gland
22	Gland
23	Connecting Plate
24	Collet
25	Collet
26	Washer
27	N/A
28	Top Handle
29	Bush
30	Power Cable & Plug
31	Elbow & Hose Adaptor

DECLARATION OF CONFORMITY



Clarke[®]
INTERNATIONAL

Hemncill Street, Epping, Essex CM16 4LG

DECLARATION OF CONFORMITY

This is an important document and should be retained.

We hereby declare that this product(s) complies with the following directive(s):

- 2014/30/EU Electromagnetic Compatibility Directive.*
- 2014/35/EU Low Voltage Equipment Directive.*
- 2011/65/EU Restriction of Hazardous Substances.*

The following standards have been applied to the product(s):

EN 60335-1:2012 + A11:2014, EN 60335-2-41:2003+A2:2010.

The technical documentation required to demonstrate that the product(s) meet(s) the requirement(s) of the aforementioned directive(s) has been compiled and is available for inspection by the relevant enforcement authorities.

The CE mark was first applied in: 2019

Product Description: Sub Clean Water Pump 220W
Model number(s): CWP200
Serial / batch Number: N/A
Date of Issue: 31/05/2019

Signed:

J.A. Clarke
Director

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WATER PUMPS

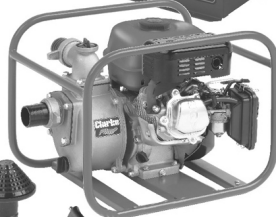
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