

# Clarke®



## SUBMERSIBLE DIRTY WATER PUMP

MODEL NO: DWP100A, DWP150A, DWP200A

PART NO: 7230098, 7230099, 7230100

## OPERATION & MAINTENANCE INSTRUCTIONS



ORIGINAL INSTRUCTIONS

LS0620 - ISS 2

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## INTRODUCTION

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Thank you for purchasing this CLARKE Submersible Dirty Water Pump.

**This pump is NOT designed for pumping slurry, sludge, mud or heavily polluted water, or any water containing chemicals or other acidic contaminants including salt water.**

The DWP100A and DWP150A have the ability to pump solids in suspension as large as 6.8 mm.

The DWP200A has the ability to pump solids in suspension as large as 7 mm.

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## GUARANTEE

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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.

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## ENVIRONMENTAL RECYCLING POLICY

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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.

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# SAFETY INSTRUCTIONS

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## GENERAL

1. Read all instructions before use and save these instructions for future use.
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, 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.
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, mains cable and float switch cable for damage before use.
6. Do not use the pump if damaged. Refer to qualified service personnel for repair.
7. Never carry the pump by the power cable or float switch always use the handle or a rope tied securely to the handle.
8. Never insert your fingers into the pump whilst it is connected to the mains.
9. Never use the submersible pump in a swimming pool when there are people or animals in the pool.
10. Keep the pump clear of any sediment by standing it on a platform or brick or suspending it at a suitable height.
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.

# PART IDENTIFICATION



DWP150A Shown

1	WATER INLET
2	FLOAT SWITCH
3	PLUG AND CABLE

4	WATER OUTLET
5	HANDLE
6	CABLE CLAMP

Remove all packaging and make sure that the unit shows no visible damage. Dispose of all packaging appropriately.

# ELECTRICAL CONNECTIONS



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

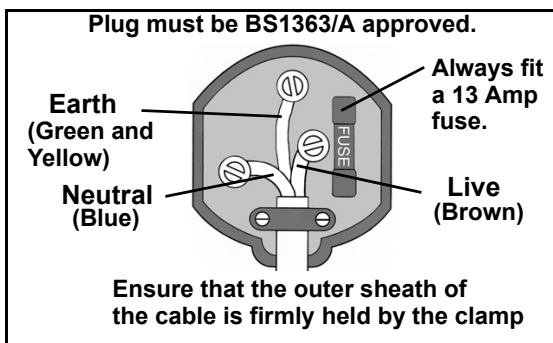
Connect the mains lead to a standard, 230 Volt (50Hz) electrical supply through an approved 13 amp BS 1363 plug, or a suitably fused isolator switch. If the plug has to be changed because it is not suitable for your socket, or because of damage, it must be removed and a replacement fitted, following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

- The BLUE wire must be connected to the terminal which is marked N or coloured black.
- The BROWN wire must be connected to the terminal which is marked L or coloured red.
- The YELLOW AND GREEN wire must be connected to the terminal which is marked E or  $\perp$  or coloured green.



**An approved Residual Current Device (RCD) which has a tripping current of less than 30mA must be used.**

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

## OVERLOAD SWITCH

These pumps are 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), the pump will automatically restart.

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## USING THE PUMP

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

1. Using the adaptor if required, connect a suitable hose (not supplied) to the pump outlet.
  - Suitable hoses are available from your local Clarke dealer.
2. Place the pump on a flat surface in the area that you want to drain.
  - If there is sediment in the operating area, the pump should be placed vertically on house bricks, or similar.
  - Ensure the pump is positioned with adequate space so that the movement of the float switch is not restricted - recommended minimum area of 50 x 50 cm.
  - ALWAYS raise and lower the pump using a rope attached to the lifting handle.
  - Take all necessary precautions as described on page 3.
  - The pump inlet must be fully submerged before the pump is switched on.
3. Connect the mains plug to a high sensitivity residual current device (RCD) which has a tripping current of less than 30mA.
4. Switch the mains power supply on.
  - The pump will begin to drain water.
  - As the water level falls, so will the float switch, until it stops the pump.
  - You can adjust the position at which the float switch lead clips to the side of the pump, if the length of the float switch lead is short the pump will turn on and off earlier.
5. When the pumping is finished, disconnect the pump from the mains power supply.



**CAUTION: DO NOT ALLOW THE PUMP TO RUN DRY**

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# MAINTENANCE

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**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.**

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This pump should require no maintenance other than regular cleaning.

If the pump starts to show signs of wear or damage, contact your CLARKE dealer for advice.

## CLEANING

1. Check the pump installation regularly to ensure the water inlet is clear of leaves or other debris.
2. Take extra care to remove any debris from around the impeller.

**NOTE:** Do not attempt to repair the pump yourself. Repairs must be carried out by your CLARKE dealer, or contact the CLARKE Service Department.

## STORAGE

When the pump is not being used for extended periods, clean and dry it thoroughly and store it indoors. If the pump is left in water, it must be run at least once a week to prevent it from seizing up.

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## SPECIFICATIONS

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	DWP100A	DWP150A	DWP200A
Voltage	230V~50Hz	230V~50Hz	230V~50Hz
Outlet Diameter	2" BSP (inc 2" - 1"Hose Adaptor)	2" BSP (inc 2" - 1.5" HoseAdaptor)	2" BSP (inc 2"Hose Adaptor)
Power	740 W	1100 W	1500 W
Maximum Head Height	10 m	12 m	10 m
Maximum Output	200 l/min.	250 L/min.	600 L/min.
Maximum Depth	5 m	5 m	5 m
Max Water Temperature	40°C	40°C	40°C
Maximum Particle Size	6.8 mm	6.8 mm	7 mm
Weight	13.5 kg	15 kg	21 kg
Dimensions (D x W x H) mm	236 x 170 x 355	236 x 170 x 361	236 x 170 x 361

# TROUBLESHOOTING

PROBLEM	SOLUTION
PUMP WILL NOT START	<ol style="list-style-type: none"> <li>1. Make sure that the power is switched on.</li> <li>2. Check fuse (consult an electrician if in doubt).</li> <li>3. If extension lead is fitted, check connections (consult an electrician if in doubt).</li> <li>4. Internal thermal cut-out has not re-set. Leave for 5-10 minutes and try again.</li> <li>5. The impeller may be jammed. Disconnect from the mains supply and remove any objects that may be obstructing the impeller.</li> <li>6. Float switch may be jammed against side wall, or prevented from moving.</li> <li>7. Water level too low - float switch in OFF position - lift float to check switch.</li> <li>8. If the pump still fails to start, consult your CLARKE dealer for advice.</li> </ol>
PUMP WILL START BUT NOT PUMP	<ol style="list-style-type: none"> <li>1. Check that the inlet is not blocked.</li> <li>2. Check that the discharge tube is not clogged or obstructed.</li> <li>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 7).</li> <li>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.</li> <li>5. Impeller may be damaged - Consult your CLARKE dealer.</li> </ol>
PUMP WILL NOT STOP	<ol style="list-style-type: none"> <li>1. Float switch may be prevented from moving to the fully down position.</li> <li>2. Float switch may be faulty. Consult your CLARKE dealer for advice.</li> </ol>
PUMP STOPS RUNNING	<ol style="list-style-type: none"> <li>1. Thermal overload has operated. Leave for 5-10 minutes and try again.</li> <li>2. Pump has run dry, or float switch has cut in.</li> <li>3. A foreign object has jammed the impeller.</li> </ol>

If this does not solve your problem, please contact the Clarke service department.



# DECLARATION OF CONFORMITY



**Clarke**<sup>®</sup>  
**INTERNATIONAL**

Hemnall 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(Amended by 2015/863).*

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

- EN ISO 12100:2010, EN 60204-1:2018, EN 809:1998+A1:2009, EN 61000-6-1:2019,  
EN 61000-6-3:2007+A1:2011, EN 61000-3-2:2019, EN 61000-3-3:2013+A1:2019.*

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.

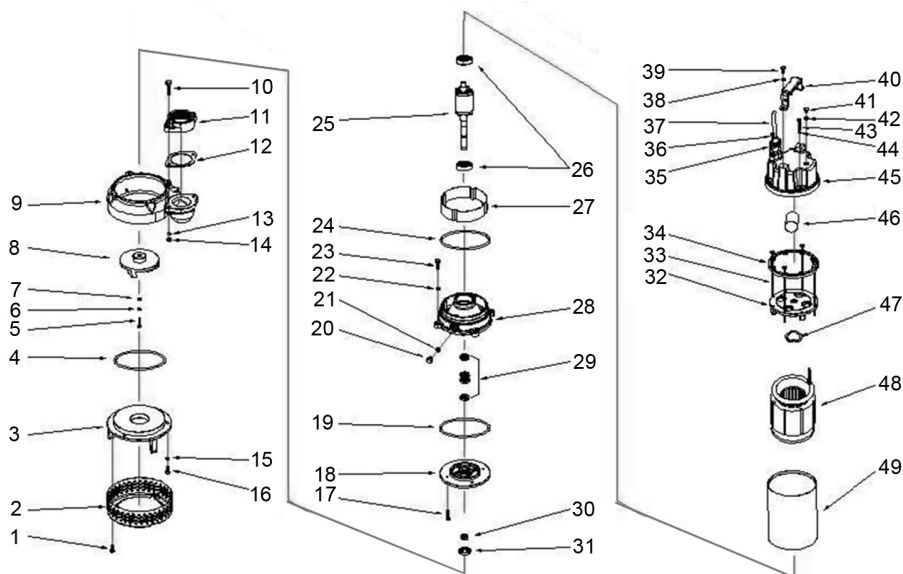
The CE mark was first applied in: 2012

**Product Description:**                      Submersible Stainless Steel Water Pump  
**Model number(s):**                        SWP900A, CWP1000A, DWP100A, DWP150A, DWP200A  
**Serial / batch Number:**                N/A  
**Date of Issue:**                            09/06/2020

**Signed:**

**J.A. Clarke**  
**Director**

# PARTS LIST & DIAGRAM



1	Screw	18	Lower Bearing Seal Cover	35	Cable Gland Cover
2	Strainer	19	Washer	36	Screw
3	Lower Casing	20	Oil Plug Screw	37	Power Cable
4	O Ring	21	O Ring	38	Spring Washer
5	Bolt	22	Spring Washer	39	Bolt
6	Spring Washer	23	Bolt	40	Handle
7	Washer	24	O Ring	41	Oil Plug Screw
8	Impeller	25	Rotor	42	O Ring
9	Casing	26	Bearing	43	Screw
10	Bolt	27	Insulation Paper	44	Spring Washer
11	Outer Connector	28	Bottom Bearing Chuck	45	Capacitor Seal Cover
12	Sealing Flange	29	Mechanical Seal	46	Capacitor
13	Spring Washer	30	Control Set	47	Corrugated Sheet
14	Nut	31	Lip Seal	48	Stator
15	Spring Washer	32	Upper Bearing Chuck	49	Motor Frame
16	Bolt	33	Long Screw		
17	Bolt	34	Capacitor Seal Ring		

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## **ACCESSORIES**

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A wide range of suitable accessories such as delivery hoses, layflat hoses, hose clips and many more are available from your local Clarke dealer.

# A SELECTION FROM THE VAST RANGE OF

# Clarke®

## QUALITY PRODUCTS

### AIR COMPRESSORS

From DIY to industrial, Plus air tools, spray guns and accessories.

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Prime duty or emergency standby for business, home and leisure.

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Hot and cold, electric and engine driven - we have what you need

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Mig, Arc, Tig and Spot. From DIY to auto/industrial.

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**SALES: UK 01992 565333 or Export 00 44 (0)1992 565335**

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