

Clarke®

PUMP



SUBMERSIBLE PUMP

MODEL NO: HIPPO 2/2A

PART NO: 7230023, 7230024 & 7230025

OPERATION & MAINTENANCE INSTRUCTIONS



ORIGINAL INSTRUCTIONS

GC0221 - rev 6

INTRODUCTION

Thank you for purchasing this CLARKE Hippo submersible pump. Hippo 2 has the same specification as the Hippo 2A but without a float switch.

The Hippo 2 can be supplied for either 110V (part No 7230023) or 230V (part No 7230024) power supplies.

This pump is designed for pumping clean water.

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

SPECIFICATIONS

Voltage	230V~50Hz or 110V
Outlet Thread Diameter	1" BSP
Power	250W
Maximum Head Height	6 m
Maximum Output Flow	85 l/min
Weight	3.65 kg
Cable Length	6 m
Dimensions (L x W x H)	158 x 143 x 265 mm

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.

SAFETY INSTRUCTIONS

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 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 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 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 - 230V UNITS



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

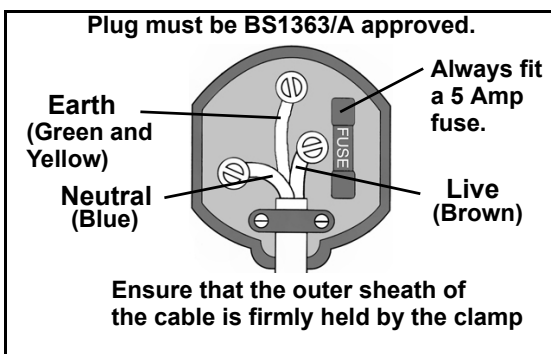
Connect the mains lead to a standard, 230 Volt (50Hz) electrical supply through an approved 13 amp BS 1363 plug, or a suitably fused isolator switch. If the plug has to be changed because it is not suitable for your socket, or because of damage, it must be removed and a replacement fitted, following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

ELECTRICAL CONNECTIONS - 110V UNITS

HIPPO 2 - 110 VOLT UNITS

This product can be connected to one of the following power supplies:

- 110V generator
- 110V isolating transformer
- 110V site supply
- 230V generator via a 110V transformer.

Connecting it to any other power source may cause damage.

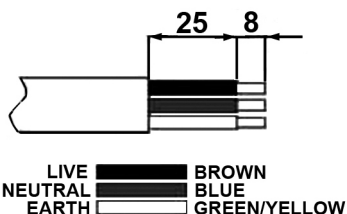
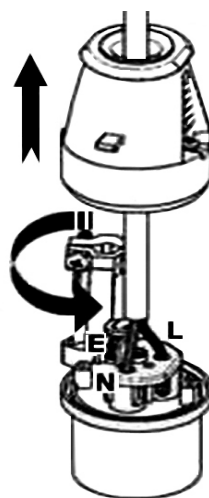
This product requires a fitted industrial plug to BS-EN 60309 and a cable for use with a 110 volt supply. On no account must a 230V, 13amp (BS1363) plug be used.

If using a portable 110V transformer, make sure it has a rated capacity sufficient to take the load of this pump.

Should the plug need changing at any time, ensure that a plug of identical specification is used and proceed as follows:

1. Undo the socket screws & remove the rear section.
2. Rotate the cable clamp clear of the terminals.
3. Feed the cable through the rear gland in the plug.
4. Remove the cable sheath to the required lengths as shown in the diagram.
5. Terminate the correct wires in the correct terminal blocks as shown.
6. Remove the cable clamp screws. Clip the cable clamp back into position and place the clamp around the outer sheath of the cable. Replace the screws and tighten until the cable is securely held.
7. Replace the rear cover and tighten the cover screws.

If in any doubt, consult a qualified electrician. DO NOT attempt any repairs yourself.



ASSEMBLY

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

FITTING THE HOSE ADAPTOR

A selection of adaptors in ½", ¾" and 1" sizes are supplied. The hose adaptor must be screwed onto the pump outlet.

1. Fit the required size adaptor according to the hose being used.
 - Reducing the hose diameter will effect the maximum flow rate.
2. Connect a suitable hose (not supplied) to the adaptor
 - Suitable hoses are available from your local Clarke dealer.

POSITIONING AND OPERATING



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

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1. Place the pump on a flat surface in the area that you want to drain.
 - If the pump is to be used where there may be silt or mud (for example, garden ponds), keep the pump clear of sediment by standing it on a platform or brick.
 - In deep water it may be helpful to raise and lower the pump using a rope attached to the lifting handle. Do not lift the pump by the mains or float switch cables.
 - Take all necessary precautions as described on page 3.
 2. Connect the mains plug to the power supply. The pump will begin to drain water.
 - Always use a high sensitivity residual current device (RCD) which has a tripping current of less than 30 mA.
 - The Hippo 2 is designed for use with clean fresh water. Avoid using your pump with salt water or with water containing chemicals as these can cause damage to the pump. If the pump does come into contact with salt water or chemicals, wash it in fresh water immediately.

3. Do not use the pump if the water is liable to freeze as this can damage the pump. Remove the pump from the water and store it in a frost free location.
4. Inspect the pump regularly to check that the base inlet is clear of leaves or other debris. Any blockage of mud or leaves can be cleared by washing the pump in fresh water, or by using a garden hose to flush fresh water back through the pump outlet connector.
5. Never switch on the pump with the outlet connected to the mains water supply. The mud pack (item 2) and screen/filter (item 6) can be removed for cleaning if necessary. Remove the mud pack (3 screws around the base), followed by the screen/filter (3 more screws) if necessary.
6. Keep watch and do not allow the pump to run dry.
 - When fitted (Hippo 2A), the float switch will turn off the pump when the water level drops to a low level.
7. When pumping is finished, disconnect the pump from the power supply.

MAINTENANCE

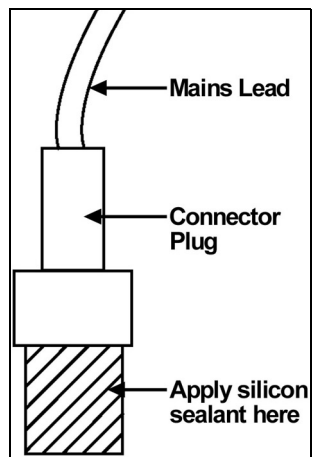


WARNING: BEFORE CHECKING THE CONDITION OF THE PUMP, ENSURE IT IS UNPLUGGED FROM THE MAINS SUPPLY. IF THE UNIT IS HARD WIRED, ENSURE THE CIRCUIT BREAKER IS OPEN.

This pump should require no maintenance other than regular cleaning. If the pump starts to show signs of wear or damage contact the Clarke service department for advice. Do not use the pump if there is any damage to the mains supply cable. Do not attempt to repair the pump yourself (other than to replace those parts listed below), as you may invalidate your guarantee and damage the waterproof seal of the pump.

To fit a new power lead, remove the two screws and the retaining plate from around the power lead connector plug and pull the plug from its socket.

When replacing, the plug must be sealed using a clear silicon sealant. Apply the sealant to the body of the connector plug as shown in the diagram, before inserting it into its socket and replacing the retaining plate and screws.



If using this pump in a garden pond, please note that there is a small quantity of oil in the pump seal. If the pump or seal is damaged, the oil may leak out, and appear as a film on the surface of the water. Although harmless to people, the oil must be cleared to prevent any possible harm to pond life. Disconnect the pump from the electrical supply, remove it from the pond, and clear the oil, then contact our Service Department for advice.

CLEANING

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

STORAGE

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

ENVIRONMENTAL RECYCLING POLICY



By purchasing this product, the customer is taking on the obligation to deal with its safe and ethical disposal in accordance with the Waste Electrical and Electronic Equipment (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 recognized disposal facility.

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 an extension lead is fitted, 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 is below the minimum level required by the float switch. 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 outlet 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. 4. Air bubble in the pump, produced during immersion. immerse 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 WILL NOT STOP	<ol style="list-style-type: none"> 1. Pump set to manual mode. 2. Float switch may be faulty. Consult your CLARKE dealer for advice.
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 or float switch has cut in. 3. A foreign object has jammed the impeller.

PARTS LIST & DIAGRAM



1	Base	72000940
2	Mud-pack	72000941
3	Cable with connector	72000942
4	Impeller (screw fit to shaft)	72000943
5	Gasket	72000944
6	Screen/filter	72000945
7	1/2" adaptor	72000946
8	3/4" adaptor	72000947
9	1" adaptor	72000948

DECLARATION OF CONFORMITY



Clarke[®]
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.*

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

- EN 60335-1:2012+A11:2014+A13:2017, EN 60335-2-41:2003 +A1:2004 +A2:2010,*
- EN 61000-3-3:2013, EN 61000-3-2:2014, EN 55014-1:2017, EN55014-2:2015.*

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: 2005

Product Description: Submersible Pump
Model number(s): HIPPO II, HIPPO IIA, HIPPO II (110V)
Serial / batch Number: N/A
Date of Issue: 14/01/2020

Signed:

J.A. Clarke
Director

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PARTS & SERVICE: 0208 988 7400

Parts Enquiries
Parts@clarkeinternational.com

Servicing & Technical Enquiries
Service@clarkeinternational.com

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

Clarke INTERNATIONAL Hemnall Street, Epping, Essex CM16 4LG
www.clarkeinternational.com