

Charmbe®



BORE HOLE PUMP

MODEL NO: CBB75 & CBB100

PART NO: 7150710 & 7150715

OPERATION & MAINTENANCE INSTRUCTIONS



ORIGINAL INSTRUCTIONS

GC1118 - ISS 3

INTRODUCTION

Thank you for purchasing this CLARKE Bore Hole Pump, which is designed for use in a domestic environment only.

Please read this manual thoroughly, before attempting to operate this product, and carefully follow all instructions given.

It is vitally important that ALL precautions are taken, as specified, which will not only provide protection for yourself and that of others around you, but will also ensure that the Battery Charger will give you long and satisfactory service.

GUARANTEE

This CLARKE product is guaranteed against faulty manufacture for a period of 12 months from the date of purchase. Please keep your receipt 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.

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.

SAFETY PRECAUTIONS



WARNING: AS WITH ALL MACHINERY, THERE ARE CERTAIN HAZARDS INVOLVED WITH THEIR OPERATION AND USE. EXERCISING RESPECT AND CAUTION WILL CONSIDERABLY LESSEN THE RISK OF PERSONAL INJURY. HOWEVER, IF NORMAL SAFETY PRECAUTIONS ARE OVERLOOKED OR IGNORED, PERSONAL INJURY TO THE OPERATOR OR DAMAGE TO PROPERTY, MAY RESULT

ALWAYS learn the pump's applications, limitations and specific potential hazards peculiar to it. Read and become familiar with the entire operating manual.

ALWAYS ensure that the local supply voltage corresponds with the supply information on the pump's data plate.

ALWAYS check the pump for damage before use. Any damaged part should be checked to ensure that it will operate properly and perform it's intended function. Check for alignment of moving parts, breakage of parts, mountings, and any other condition which may effect the machine's operation. Any damage should be properly repaired or the part replaced. If in any doubt DO NOT use the pump. Consult your local CLARKE dealer.

ALWAYS keep children away. All visitors should be kept at a safe distance from the work area, especially whilst operating the pump.

ALWAYS maintain the pump in top condition and keep it clean for best performance. Follow any maintenance instructions.

ALWAYS handle with care, do not carry the pump by it's electrical cable, or yank the cable to disconnect it from the power supply.

ALWAYS concentrate on the job at hand, no matter how trivial it may seem. Be aware that accidents are caused by carelessness due to familiarity.

ALWAYS remove the plug from the electrical supply when adjusting or changing parts.

ALWAYS use recommended accessories, the use of improper accessories could be hazardous.

ALWAYS guard against electric shock. Safety can be further be improved by using a residual current device (RCD).

ALWAYS ensure that the power supply used to power the pump is connected to an efficient grounding system.

ALWAYS store the pump out of the reach of children, DO NOT allow children to operate the pump.

NEVER operate the pump when under the influence of drugs, alcohol or any medication.

NEVER leave the pump running unattended. Turn power OFF. Do not leave the pump until it comes to a complete stop.

DO NOT use the pump if the electrical cable, plug or motor is in poor condition.

SAFETY PRECAUTIONS FOR BORE HOLE PUMPS

ONLY use the pump for its intended applications (refer to setup & operation).

ALWAYS protect the power supply plug from getting wet. The plug must be accessible when the pump is running.

ALWAYS ensure that nobody is in contact with the water in which the pump submerged.

ALWAYS protect the pump and pipe from frost, drain the pump and pipe and store in a protected location.

ALWAYS ensure that the weight of the pump is borne by the rope and not the supply cable or the delivery pipe.

DO NOT carry the bore hole pump by the supply cable.

DO NOT make any modifications to the pump or tamper with it in any way.

NEVER operate the pump with the delivery port closed or obstructed.

ELECTRICAL CONNECTIONS



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

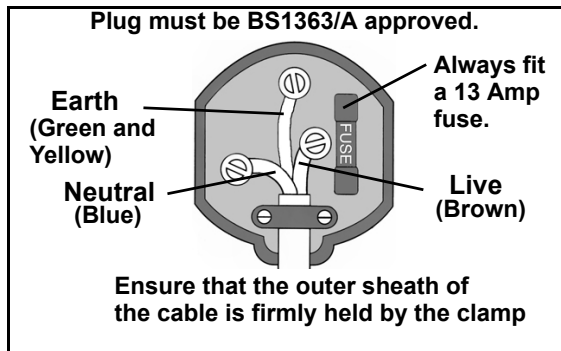
Connect the mains lead to a standard, 230 Volt (50Hz) electrical supply through an approved 13 amp BS 1363 plug, or a suitably fused isolator switch. If the plug has to be changed because it is not suitable for your socket, or because of damage, it must be removed and a replacement fitted, following 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 30 mA MUST BE USED.

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

SETUP AND OPERATION

This bore hole pump is designed to pump soft water from bore holes, wells, underground springs or storage tanks to supply single sprinkler or irrigation systems. The pump is watertight and must be submerged in water (max depth 15m).

Suitable pumping liquids are:

- Clear water
- Rain water

The pump must **NOT** be used to pump:

- Salt water
- Liquid foods
- Corrosive or chemical substances
- Flammable, explosive or volatile liquids
- Sandy or abrasive liquids
- Sewerage
- Liquids containing textile materials or paper fragments

SETUP

Attach the delivery pipe to the delivery port.

NOTE: DO NOT install a non-return valve on the pump delivery side as one is already built into the pump. The non-return valve prevents the pump from draining when stopped.

Secure the supply cable to the delivery pipe.

Secure the rope and lower the pump into the bore hole.

NOTE: The rope should bare the weight of the pump, NOT the delivery pipe or the supply cable.

The pump must be positioned at least one metre above the bottom of the bore hole. Sand and other material found in pumped liquid will cause rapid deterioration of the pump and reduce its efficiency.

Before starting the pump, make sure that the delivery pipe is unobstructed and the delivery port is open.

To start the pump insert the plug into the mains supply:- to stop the pump remove the plug from the supply.

The pump is equipped with a thermal-amperometric motor protector. In case of overload, the motor protector shuts down the pump automatically. When the motor has cooled the pump starts up again automatically. If the motor protector steps in, it is absolutely necessary to locate and eliminate the cause of the malfunction. (refer to troubleshooting on page 8).

NOTE: The water being pumped will be polluted if this pump becomes damaged and lubricant within the pump escapes.

CARE & MAINTANENCE



WARNING: ELECTRIC SHOCK HAZARD! BEFORE CARRYING OUT ANY MAINTENANCE OR CLEANING OPERATIONS, DISCONNECT THE PUMP FROM THE POWER SUPPLY.

This pump does not require any particular maintenance and all repairs must be carried out by an authorised service centre only.

After removing the pump from the water, drain and rinse with clean water.

To clean the suction filter, use a jet of clean water.

If the pump's turbines need replacement, take the pump to an authorised service centre.

If the power supply cable is damaged it **MUST** be replaced by the manufacturer or an authorised service centre.

TROUBLESHOOTING

| PROBLEM: The pumps motor does not start or stops suddenly after a few seconds. | |
|---|---|
| Cause | Solution |
| No power supply. The thermal-amperometric motor protector has deactivated the pump due to overload. Solid particles have obstructed the suction filter. | Check the electrical connections. Unplug the pump and clean it. Check the water temperature (max 35°C). Unplug the pump and clean it. |
| PROBLEM: The pump is running but no water is being delivered. | |
| Cause | Solution |
| The pump is not sufficiently submerged. Clogged suction filter. There is no outflow of air because the delivery pipe is obstructed. | Lower the pump deeper in the water. Unplug the pump and clean it. Remove obstructions from the delivery pipe. |
| PROBLEM: The flow rate is insufficient. | |
| Cause | Solution |
| Clogged suction filter. Diameter of external pipe is too small. Too high head. | Unplug the pump and clean it. Use a larger diameter pipe. Reduce the head. |

SPECIFICATIONS

| | | |
|----------------------------------|--------------------|--------------------|
| Model Number | CBB75 | CBB100 |
| Input voltage / Current | 230V, 50Hz | 230V, 50Hz |
| Input Wattage: | 750W | 1000W |
| Mains Supply Cable Length: | 15M | 15M |
| Flow Rate: | 60 litres/min | 80 litres/min |
| Max. Immersion Depth: | 15M | 15M |
| Max Head | 55M | 60M |
| Max. Temperature: | 35°C | 35°C |
| Max. Sand Content: | 90g/m ₃ | 90g/m ₃ |
| Max. Size of Suspended Particles | 2mm dia | 2mm dia |
| Number of Impellers: | 7 | 8 |
| Delivery Diameter: | 1 inch | 1 inch |
| Pump Diameter: | 98mm | 98mm |
| Rope Length: | 15M | 15M |
| Weight | 10.3 kg | |

NOTE: Please Note that details and specifications herein, are correct of time of going to print. However CLARKE International reserve the right to change specifications at any time without prior notice. Copyright CLARKE International. All rights Reserved 2006.

DECLARATION OF CONFORMITY



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INTERNATIONAL

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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, EN 60335-1/A11:2014, EN 60335-2-41/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: 2016

Product Description: Submersible Water Pumps:
Model number(s): CBB75, CBB100.
Serial / batch Number: N/A
Date of Issue: 18/10/2018

Signed:

J.A. Clarke
Director

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