

Clarke®



ELECTRIC BOOSTER SURFACE PUMP MODEL NO: EBP1100

PART NO: 7239200

OPERATION & MAINTENANCE INSTRUCTIONS



ORIGINAL INSTRUCTIONS

GC0819 ISS 1

INTRODUCTION

Thank you for purchasing this CLARKE 1100W surface booster pump.

This non-submersible centrifugal pump is designed to pump clean water in gardens for spraying and irrigation purposes and for pumping water to greenhouses. It can also be used for boosting running water feed pressure (not drinking water) or for pumping out wells or ponds. Do not operating with contaminated or salt water.

Before attempting to use this product, please read this manual thoroughly and follow the instructions carefully.

Please keep these instructions in a safe place for future reference.

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.

ENVIRONMENTAL RECYCLING POLICY



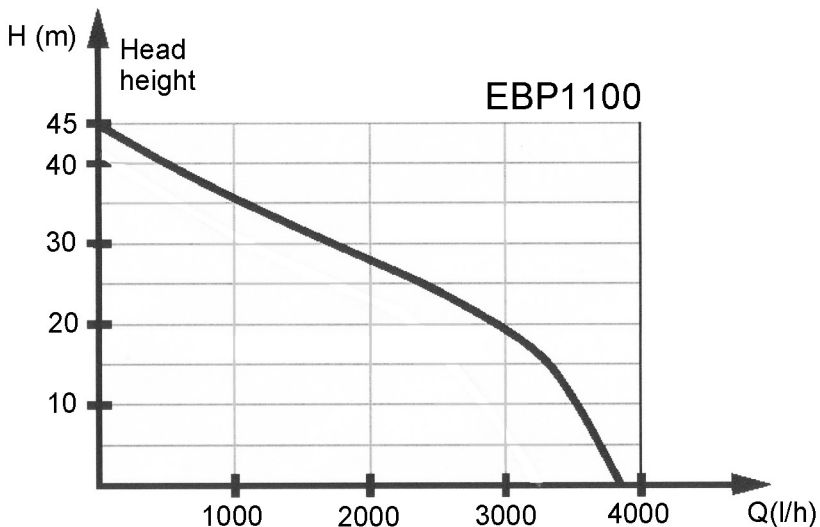
Through purchase of this product, the customer is taking on the obligation to deal with the WEEE in accordance with the WEEE regulations in relation to the treatment, recycling & recovery and environmentally sound disposal of the WEEE.

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.

SPECIFICATION

Water Classification	Clean
Maximum Delivery	62.5 l/min
Maximum Head	45 m
Maximum Suction Lift	8 m
Operating Temperature	0-35°C
Ingress Protection Rating	IPx4
Supply	230V ~ 50Hz
Rated Power	1100 W
Input Current@ Maximum Head	4.2 A
Outlet Thread Size	1" BSP
Weight	10.5 kg
Length x Width x Height	496 x 232 x 340 mm
Sound Pressure Level	85 dB LpA

PUMP PERFORMANCE CURVE



GENERAL SAFETY PRECAUTIONS

Before using this equipment it is in your own interest to read and pay attention to the following safety rules.



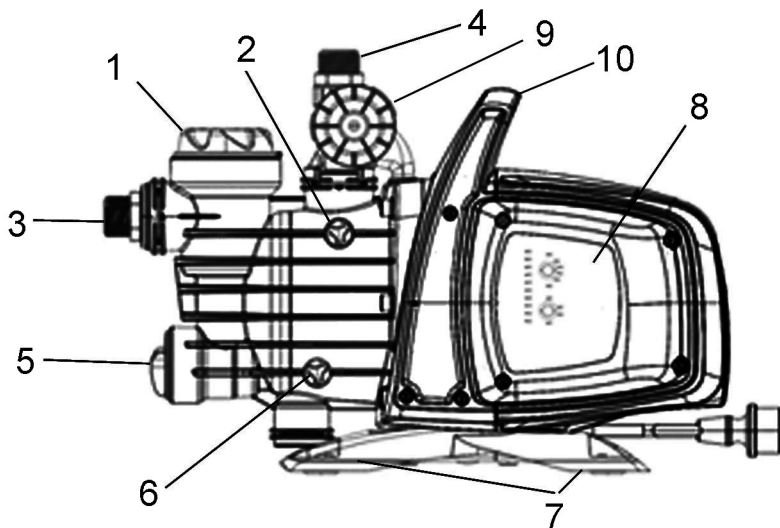
WARNING: ALWAYS CONNECT THE PUMP TO AN EARTHED POWER SUPPLY VIA AN RCD.

1. ALWAYS keep the working area clean and well lit. Floors should always be kept clear. Cluttered or dark areas invite accidents.
 2. NEVER over-reach. Keep your proper footing and balance at all times when installing or maintaining the pump.
 3. NEVER direct any water discharge towards electrical wiring or equipment.
 4. ALWAYS thoroughly familiarise yourself with this pump & its operation, and follow all instructions in this manual. Never allow persons unfamiliar with these instructions to instal or operate the pump.
 5. ALWAYS ensure that the pump is properly installed to prevent it from moving during operation, and that the immediate area surrounding the pump is kept clear.
 6. ALWAYS maintain the pump with care and keep it clean for best / safest performance.
 7. NEVER modify this pump in any way. Use it ONLY for the purpose for which it is designed.
 8. NEVER use for pumping flammable liquids or corrosive chemicals. This pump is designed to pump clean water only.
 9. ALWAYS have the pump serviced by your local CLARKE dealer, using only identical replacement parts. This will ensure the safety of the pump is maintained. The use of non standard parts could be hazardous.
 10. NEVER use this product if any part is damaged. Have it inspected and repaired by your local Clarke dealer. Always turn the pump off before carrying out any maintenance.
 11. NEVER allow the pump to run dry.
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CAUTION: THIS PUMP IS NOT A SUBMERSIBLE PUMP. ON NO ACCOUNT SHOULD IT EVER BE IMMERSSED IN WATER.

OVERVIEW



1. Inlet filter
2. Vent plug
3. Inlet connection
4. Outlet connection
5. Non-return valve
6. Drainage plug
7. Vibration-damping rubber feet
8. Digital control panel
9. Flow meter
10. Handle

Because of the number of possible installations, no accessories are supplied with your pump but a selection is available from your CLARKE dealer. See page 21.

NOTE: It is recommended that the end user should consult a qualified CLARKE installer if there are any doubts as to the suitability of this product for a particular installation.

INSTALLATION OF THE PUMP

IMPORTANT: The pump MUST NOT be connected to the mains power supply until all hose/pipe installations are completed.

LOCATION

Install the pump in a horizontal position i.e. with the outlet connection facing vertically upwards. Mount the pump on blocks or a purpose built platform to protect it from flooding.

Ensure there is adequate air circulation around the motor. The pump should be installed in a dry, well ventilated enclosure, sheltered from rain and with an environment temperature not higher than 40°C.

The pump is provided with rubber feet (7), and the plastic covers must be prised off to insert the holding down bolts for fixed installations.

Always place the pump as close as possible to the water to be pumped but be positioned so as to avoid the possibility of immersion. The power supply should also be a safe distance away. If in doubt, please contact your electrician and refer to national regulations.

Avoid locating the pump where it could become drenched with water as it is not designed to be totally waterproof.

Ensure the pump & its power cable do not create a safety hazard for people walking past it. The length of the power cable on the pump limits the distance from the power source. If an extension cable is required, ensure it is compatible with the cable supplied.

CONNECTIONS AND HOSES

To prevent unnecessary strain ensure that adequate support is provided to the hoses and pipes. They will be considerably heavier when filled with water.

Always use a pipe diameter at least equal to, or greater than, the diameter of the pump connections.

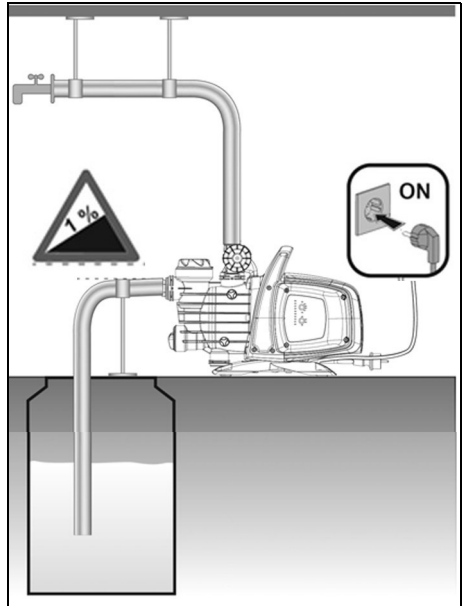
For suction depths of over four metres or with long horizontal stretches. Use an intake hose with a diameter larger than that of the intake aperture of the pump.

To prevent the formation of air pockets, the inlet hose must slope slightly upwards towards the pump.

If the suction pipe is made of a flexible material always check that it is of the reinforced vacuum-resistant type to avoid collapse due to suction.

In case of a fixed installation, it is recommended that you fit a non-return valve on both sides of the pump. This allows closure of the line upstream and/or downstream from the pump, useful for service and cleaning operations or for periods in which the pump is not in use.

To capture small particles in suspension an inlet filter should be fitted on the suction pipe to protect the integrated filter (1).



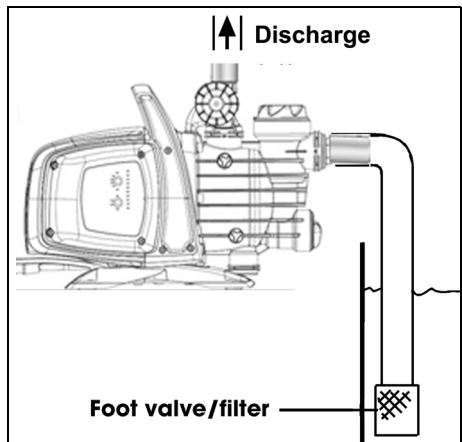
SUCTION LIFT OR GRAVITY FEED

SUCTION LIFT

It is possible to draw water up from a sunken pool or well.

- The vertical distance between the foot valve and the pump should not exceed 8 metres.

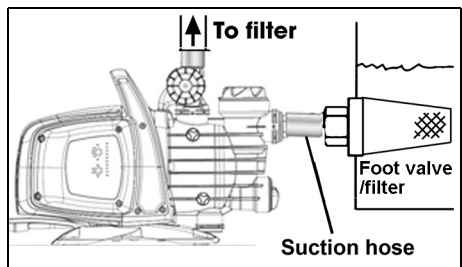
It is essential that all connections and hoses are completely air tight, otherwise the system will not work.



GRAVITY FEED

The pump can draw water from an above ground tank.

A foot valve/filter should be fitted to the end of the suction hose, (as illustrated), to help retain water in the suction system.



ELECTRICAL INSTALLATION



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.

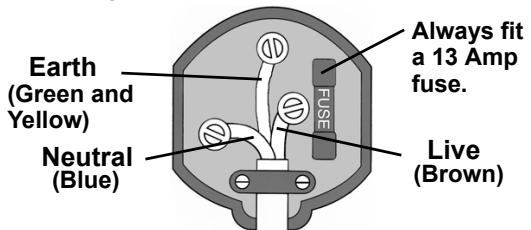


**WARNING: THE WIRES IN THE POWER CABLE OF THIS PRODUCT ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE:
BLUE = NEUTRAL BROWN = LIVE YELLOW AND GREEN = EARTH**

The colours of the wires in the power cable must 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 .

Plug must be BS1363/A approved.



Ensure that the outer sheath of the cable is firmly held by the clamp

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.

ELECTRONIC CONTROL INTERFACE



The EBP1100 electronic system incorporates the following controls:

(A) PRESSURE INDICATOR LEDS

10 LEDs are used for indicating pressure from 0 to 6 bar.

(B) MODE SELECTION BUTTON

Selectable modes include:

1. **AUTO_MODE;**
2. **MANUAL_MODE;**
3. **ANTI-LEAKAGE;**
4. **CUT_IN;**
5. **CUT_OUT,**
6. **MAX_PUMP_ON;**

(C) SET SELECTION BUTTON CONTROLLING

Selectable modes include:

- ON
- PUMP ON
- ALARM
- OFF

USING THE MODE SELECTION BUTTON (B)

1. To unlock the choice of functions press "MODE" button for 5 seconds.
2. Press "**MODE**" to scroll through the various operating modes or parameters to be modified or to enable certain functions.
 - While scrolling through the modes, the LED of the function selected will flash.
 - On returning to AUTO_MODE the active functions will be highlighted by the relative LED lighting up.

THE OPTIONS ARE AS FOLLOWS:

1) AUTO MODE: the pump will run in automatic mode see page 12.

2) MANUAL MODE: the pump works in manual mode see page 12, and the user can decide when to switch it on or off by using the "**SET**" button. SET-ON switched On / **SET-OFF** switched Off.

3) ANTI-LEAKAGE: This function is for protection against leakage and can be enabled or disabled. The factory setting is disabled.

When enabled, if the pump is started up more than 6 times in 2 minutes, it will be stopped and the error will be indicated by means of the red LED flashing slowly on "**ALARM**".

To enable ANTI-LEAKAGE, press "MODE" until the LED flashes, then press SET until the "ON" LED is lit up. To disable ANTI-LEAKAGE press SET until the LED indicates OFF.

Once the leak is repaired, reset the alarm, if still present, see alarm reset on page 12.

4) CUT-IN: This is the pressure setting (always enabled) at which the pump is activated. It can be set between 1.5 and 3.0 bar, (factory setting 1.8 bar). The pump is activated even if the flow is less than a minimum value of 1.5 l/min, (factory-setting).

5) CUT-OUT: This is the pressure setting (disabled) above which the pump stops. This is a factory setting for "CUT-IN" + 1 LED, but can be increased to 6 bar.

To enable CUT OUT press "MODE" until the LED corresponding to CUT-OUT flashes then press SET to select the required value. Exit the setting by pressing "MODE". To disable the function, press "SET" until the LED indicates OFF.

6) MAX PUMP ON: This is the maximum period of operation. The function can be enabled or disabled. The factory setting is disabled.

When enabled, if the pump operates for more than 30 minutes it will be stopped. No error indication is displayed.

This function is used to protect the installation if a valve is accidentally left open, or in the event of breakage of a pipe, or in applications for irrigation.

To enable the **MAX PUMP ON** function, press **"MODE"** until the LED corresponding to the **MAX PUMP ON** function comes on, then press **SET** until the **"ON"** LED comes on. To disable **MAX PUMP ON**, press SET until the LED illuminates to indicate OFF.

SET SELECTION BUTTON (C)

SELECTABLE MODES

1. Reset Alarms;
2. Enable/disable in MODE (MAX_PUMP_ON, ANTI-LEAKAGE)
3. Increases parameters in MODE (CUT_IN; CUT_OUT);
4. Motor ON/OFF in MANUAL MODE;
5. Pump active/pump in standby in AUTO MODE

Press **"SET"** to modify the parameters. If the LED shows CUT IN or CUT OUT, the value will be shown on the Pressure Indication LED bar. When pressing **"SET"** the value will increase. After setting the required value, exit the modification by pressing **"MODE"** and restore the LED to MODE-AUTO and SET **"ON"** enabled.

Press **SET** also to enable/disable the ANTI-LEAKAGE and MAX PUMP ON functions. After selecting the function using the **"MODE"** button, enable it by selecting SET-ON, to disable it select SET-OFF.

In **"MANUAL"** mode, the **SET** button is used to switch the pump on or off, with the LED showing **"On"** or **"OFF"**.

In automatic mode AUTO-MODE is used to turn it **"ON"** or in standby turn it **"OFF"**.

PUMP ON: This indication shows that PUMP ON coincides with the motor running.

DESCRIPTION OF THE CONTROL FUNCTIONS

1) PUMP ON/OFF (AUTO MODE, MANUAL MODE)

CUT-OUT is disabled after the LED test and the pump switches on for 10 seconds.

CUT-OUT is enabled after the power plug is inserted, the test is conducted on the LEDs for the first 3 sec (LED 0 indicates that the power is On) and the **"AUTO MODE"** is set as default with the indicator "ON".

The pump will start working if the pressure is less than the CUT-IN value and the flow is less than the minimum cut-in flow. The pump will continue to operate as long as the pressure remains less than the CUT-OUT value and will switch off when this value is reached, independently of the flow.

While, if the **"MANUAL MODE"** is selected, by pressing **"MODE"** once, the pump will start up if the "ON" LED lights up, otherwise, if "SET" is pressed, the pump will switch itself off and the "OFF" LED will light up.

When the pump starts working it will enter PRIMING mode.

NOTE: Make sure the instructions for installation have been followed and that the pump is filled completely with water.

2) PRIMING PHASE

When the pump starts working it will enter the "PRIMING" mode. During this phase if there is no flow and pressure, the motor will remain switched on for 3 minutes, after which it will enter DRY RUN alarm. If flow and pressure are present during this phase, priming will be carried out and the pump will work normally.

3) ALARM RESET

When there is an alarm, the red LED indicator on "ALARM" lights up. The alarm is reset by pressing "SET" once. If the cause of the alarm is eliminated, normal operation continues, otherwise the pump will return to alarm condition.

4) POWER ON/OFF INDICATOR

If power is present, the pressure LED 0 on the LED bar lights up. If there is no power the LED remains switched off.

NOTE: for long shutdowns it is advisable to disconnect the plug from the power supply.

5) PUMP ON/OFF INDICATOR

When the motor is running, the **"PUMP ON"** blue light will be on to indicate this status. When the motor stops, this LED goes off.

6) ALARMS INDICATION

A steady red light or button on “**ALARM**” is activated when an alarm is present.

- **Dry-running:** steady red light
- **Leakage:** slow pulse
- **Max Pump ON (pump running for more than 30 minutes):** 2 quick flashes separated by a longer pause.

Press the “**SET**” button to reset the alarms.

7) DRY RUNNING PROTECTION

If the pump is running dry it will stop after a few seconds (40 sec.) with the steady red light on “**ALARM**”.

After the initial 30 min when the pump is OFF, a new restart attempt is made lasting 5 min. If this attempt is not successful, another attempt will be made every 30 min, up to a maximum of 48 times. If all these attempts fail, an attempt will be made every 24 hours.

The device automatically comes out of the Dry-running alarm status if the flow and/or pressure is restored.

If the alarm is reset, see 3), a new attempt will be made after 40 sec.

Eliminate the cause of dry running and reset the alarm see 3).

8) ANTI-LEAKAGE

This function may be enabled or disabled. When enabled, should the pump be started more than 6 times in 2 minutes, it will be stopped and the error will be indicated by means of the red LED flashing slowly on “**ALARM**”.

Eliminate the cause of the leak and reset the alarm. For the enabling procedure see Anti-leakage (alarm reset).

9) MAX PUMP ON

Maximum operating time. The function can be enabled or disabled. Factory setting is disabled. When enabled, if the condition is such that the pump works for more than 30 minutes, it will stop and the **ALARM** light will flash.

This function is used to protect the installation if a valve is accidentally left open, in case of breakage of a pipe or in applications for irrigation.

10) PRESSURE SENSOR ALARM

The pressure sensor alarm is activated if the pressure value is outside the operating range (0-15 bar). The pump is switched off and the error will be reset as soon as the pressure returns to within the operating range.

MODES OF OPERATION

INITIAL START UP

SELF TEST OF LEDS

When the pump is plugged into the power supply, a self-test is conducted on the LEDs, during which all the LEDs will light up in sequence for a few seconds.

INITIAL PRIMING

The pump will automatically be in **AUTO** mode set to **ON**.

There may be three possible conditions:

1. **Flow is present but with low pressure:** The pump exits the priming phase and starts normal operation.
2. **Pressure is present but with no flow:** After 10 sec in this condition the pump will switch itself off.
3. **No flow and no pressure:** The pump will switch itself off and the Dry-running error will be displayed after about 3 minutes, indicated by the red LED in SET-ALARM. Eliminate the cause and reset the alarm see 3).

OPERATION WITH CUT-OUT DISABLED (FACTORY SETTING)

CUT-OUT disabled means the following response occurs:

- The pump is activated if there is flow or pressure is absent, pressure is less than CUT IN (in 10 secs).
- The pump will stop if pressure is present but flow is absent continuously for 10 seconds.

The CUT OUT LED will be switched off during normal operation. To change the setting see Mode Selection on page 10.

NORMAL OPERATION WITH CUT-OUT ENABLED

CUT-OUT enabled means the following:

- The pump will be activated if the pressure is less than the CUT IN pressure.
- The pump will be stopped if the pressure is higher than the CUT OUT pressure.

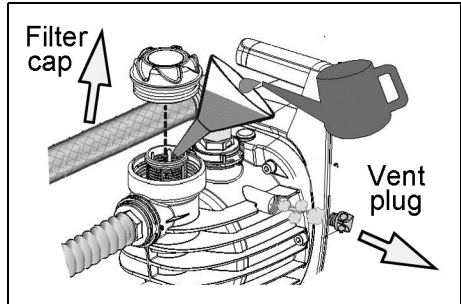
The CUT OUT will be switched on during normal operation. To modify the setting see Mode Selection on page 10.

Stop the pump by switching off the power supply. If the water supply is finished, disconnect the plug and switch off the pump. Avoid dry running.

NORMAL OPERATION

PRIMING THE PUMP

1. Open any valves in the pipeline.
2. Before starting, check that the pump is properly primed. Fill it completely with clean water after having removed the cap above the transparent filter (1).
 - A special wrench is provided for this.
3. Also open the vent plug (2) to release any air. This ensures that the mechanical seal is well lubricated with water and that the pump immediately starts to work normally. Dry operation may cause irreparable damage to the mechanical seal.
4. Screw both the filling cap and vent plug (2) on securely.
5. Filling the suction pipe with water will speed up the priming process and it is suggested that a non-return valve be fitted to the end of the suction pipe.



START-UP



CAUTION: DO NOT START THE PUMP WITHOUT HAVING COMPLETELY FILLED IT WITH WATER, (ABOUT 4 LITRES), UNTIL IT COMES OUT OF THE AIR VENT PLUG (2).

1. Plug the power cable into a 230 V power socket and switch on.
2. The pump motor will start and water will start to flow through the system. There may be some delay before water is discharged, depending on the depth of the water level in the well and the position of the discharge point.
3. Check for any leaks and correct as necessary.
 - If the motor fails to start, or the pump does not deliver water, refer to TROUBLESHOOTING. Never operate the pump when not primed with water or if the inlet is blocked.
4. To stop the pump, switch off and remove the plug from the power socket.
5. Do not subject the motor to excessive starting/stopping; it is strongly recommended not to exceed 20 starts/hour.

CARE DURING USE

1. DO NOT allow the pump to run dry, otherwise the seal between the pump and motor may be damaged. If a leak occurs at this point, allowing water to pass from the pump to the motor, take the pump to your Clarke dealer for overhaul.
2. In the event of a blockage, where debris has entered the suction chamber, it can be cleaned out as described under MAINTENANCE.
3. Should contaminants come into contact with the pump, flush through with cold water as soon as possible to prevent damage. DO NOT USE for pumping chemicals or other corrosive liquids (other than pool purification chemicals in their correct mix ratio).
4. If the pump is being used to drain a pool or pond, ensure there is adequate drainage and there is no risk of damage to property as a result of water being discharged. If a flexible hose must be laid across a roadway, protect it with wooden planking.

AFTER USE

If the pump will not be used over the winter period, or whenever there is danger of freezing, always drain the pump body. If the pump has been used with contaminated or salty water, it should be thoroughly flushed with clean water following use, both inside and out. It should then be drained and covered over, if not already installed in a clean, dry environment sheltered from the weather. In the event that dismantling and overhaul of the pump is necessary, contact your CLARKE service department.

MAINTENANCE & CLEANING

The only maintenance required is a regular inspection to ensure that debris is not blocking the passage of water through the pump.

If you suspect the pump is blocked by silt, leaf debris etc, disconnect it from the power supply and back-flush to clear any blockage using a garden hose.

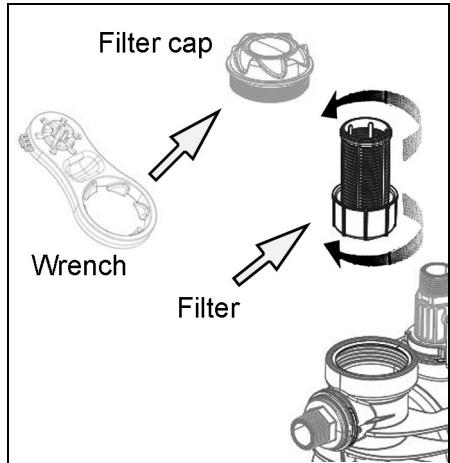
- You will need to disconnect the outlet hose to do this.

Always keep the pump in a clean condition, checking regularly for loose bolts or a damaged power cable etc.

The pump should not be taken apart by the user if overhaul is required, but should be taken to your nearest CLARKE dealer for repair.

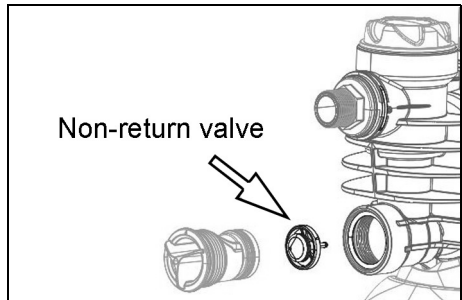
CLEANING THE SUCTION FILTER

1. Switch off the electric power supply to the pump.
2. Drain the pump by removing the drainage plug after having first closed any gate valves upstream.
3. Unscrew the cover of the filter chamber using the wrench provided.
4. Remove the filter unit from the top.
5. Rinse the unit under running water & clean the filter with a soft brush.
6. Re-fit the parts in reverse order to disassembly.



CLEANING THE NON RETURN VALVE

1. Switch off the power supply to the pump.
2. Remove the cap of the NRV with the wrench provided.
3. Remove the NRV and clean it thoroughly.
4. Re-fit the parts in reverse order to disassembly.

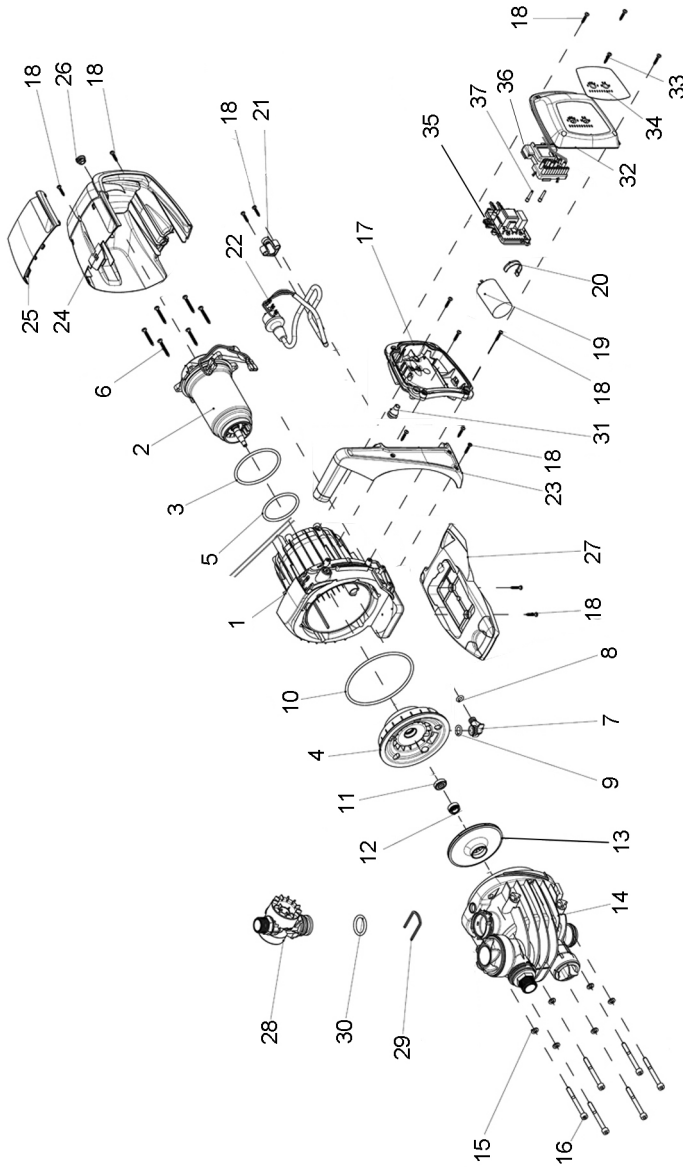


TROUBLESHOOTING

Problem	Cause	Solution
Pump does not run.	Thermal protection has been activated.	If the motor has overheated, wait for it to cool down before trying again.
	Faulty power connection	Insert plug securely.
	No mains supply.	Check fused power supply and replace fuse if necessary (check fuse rating). Check circuit breaker.
	Impeller seized/blocked	Disconnect pump from power supply. Investigate cause and clear blockage
Pump fails to prime	Air leaks through suction hose joints (damaged hose or damaged clamp.)	Repair connections/ replace hose as necessary.
	Blocked inlet hose	Check pipeline for blockage. Check any inlet valve fitted is fully open.
Pump runs but gives poor output	Congested material inside pump	Clean out & backflush pump.
	Suction or delivery line obstructed.	Remove obstruction and ensure there are no kinks in delivery line.
	Inlet pipe leakage.	Check inlet pipe and connector for leaks. Tighten as required.
	Air leaks through damaged seal.	Renew seal.
	Impeller damaged and making poor seal.	Return to your CLARKE dealer for repair.
	Impeller / mechanical seal is badly worn.	Return to your CLARKE dealer for repair.

	High friction losses in the suction line.	Avoid unnecessary curves, restrictions or valves
	Pump badly sited resulting in suction lift too high	Set pump as close as possible to the level of the water to be pumped
Sudden loss of flow.	Blockage of inlet pipe	Check pipeline for blockage.
Undue vibration or noise.	Excessive flow of water.	Decrease flow of water. by adjusting inlet/outlet valves in system.
	Resistance in inlet pipe caused by obstruction.	Check pipe and clean out as necessary
	Loose rotating component	Return to your dealer for repairs.
	Installation of pump is unstable.	Stop pump and re-position.
	Air pocket in pump or pipeline.	Release plug in impeller housing to release air.
	Damaged impeller	Return to your CLARKE dealer for repair.

COMPONENT PARTS - GENERAL



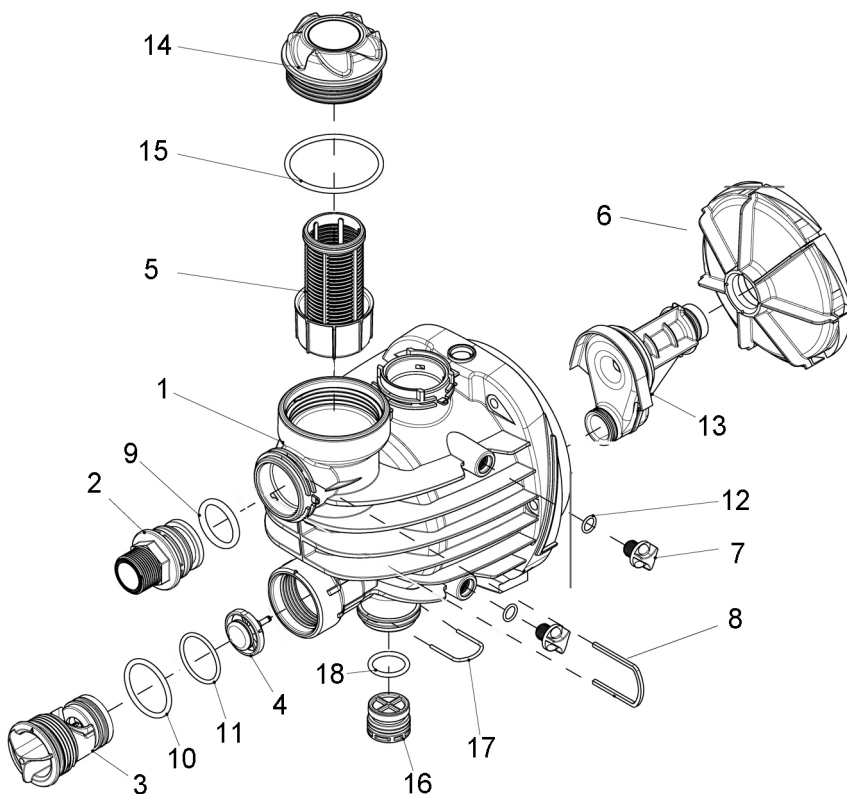
COMPONENT PARTS LIST (GENERAL ASSEMBLY)

ID	DESCRIPTION	ID	DESCRIPTION
1	Body assembly	20	Capacitor clip
2	Motor assembly	21	Cable clamp
3	O-ring	22	Cable
4	Motor position case	23	Carrying handle
5	O-ring	24	Motor cover
6	Screws	25	Motor cover top cap
7	Drainage pipe	26	Motor cover plug
8	O-ring	27	Pump base assembly
9	O-ring	28	Sensor assembly
10	O-ring	29	Fork
11	Bearing	30	O-ring
12	Shaft seal	31	Power box cable grommet
13	Impeller	32	Terminal box cover
14	Pump body assembly	33	Screw
15	Washer	34	Face plate
16	Screws	35	Control unit
17	Controller support	36	Controller insulation
18	Screws	37	Controller button
19	Capacitor		

ACCESSORIES

1" BSP Hose adaptor 90° bend (female)	Part No:7950190
1" BSP Plastic Foot Valve Filter FVF10	Part No:7950680
1" dia Reinforced Suction/Delivery Hose	Part No:7955010
1" dia Layflat Delivery Hose 5M	Part No:7955112
1" dia Layflat Delivery Hose 10M	Part No:7955113
1" BSP Male Coupling	Part No:7950210

COMPONENT PARTS-PUMP ONLY



1	Pump body	10	O-ring
2	Inlet connector	11	O-ring
3	Inner valve body	12	O-ring
4	Non-return valve	13	Venturi assembly
5	Filter with base	14	Filter cap
6	Diffuser	15	O-ring
7	Plug	16	Pump body plug
8	Fork	17	Fork
9	O-ring	18	O-ring

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 55014-2:2015, EN 55014-1:2006+A2:2011, EN61000-3-3:2013, EN 603355-1:2012+A11:2014,

EN 61000-3-2:2014, EN 62233:2008, 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: Electric Booster Surface Pump 1100W
Model number(s): EBP1100
Serial / batch Number: N/A
Date of Issue: 31/05/2019

Signed:

J.A. Clarke
Director

A SELECTION FROM THE VAST RANGE OF

Clarke®

QUALITY PRODUCTS

AIR COMPRESSORS

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

GENERATORS

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

POWER WASHERS

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

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