

# Clarke<sup>®</sup> *PUMP*



## CLEAN WATER PUMP

MODEL No: PSE1A + PSE2A

Part No: 7236025, 7236030

## OPERATION & MAINTENANCE INSTRUCTIONS



0807

## INTRODUCTION

- Thank you for purchasing this CLARKE clean water pump.
- This highly efficient pump is designed for pumping clean water only, and is ideal for draining ornamental ponds, swimming pools etc.

## GUARANTEE

- This product is guaranteed against faulty manufacture for a period of 12 months. 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.

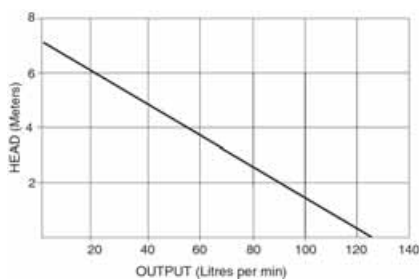
## CONTENTS

Introduction .....	2
Guarantee .....	2
Contents .....	2
Specifications .....	3
For your own safety .....	4
Electrical connections .....	5
Parts identification .....	6
Recommended uses .....	7
Preparation .....	8
Using the pump .....	9
Cleaning and maintenance .....	10
Troubleshooting .....	11

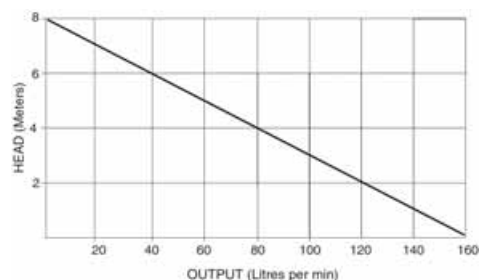
## SPECIFICATIONS

	PSE1A	PSE2A
<b>Motor</b>	230V 50Hz 1Ph.	230V 50Hz 1Ph.
<b>Motor Output</b>	278 Watts	361 Watts
<b>Head Max</b>	7 meters	8 meters
<b>Maximum Imersion Depth</b>	8 meters	8 meters
<b>Max. Flow Rate</b>	125 l/min	160 l/min
<b>Outlet Fittings</b>	1 1/4" BSP Threaded	1 1/4" BSP Threaded
<b>Dimensions ( L x W x H )</b>	150 x 197 x 223 mm	150 x 197 x 223 mm
<b>Duty Cycle</b>	S3 - 2 Hours*	S3 - 2 Hours*
<b>Sand handling Capacity</b>	30 g/m <sup>3</sup>	30 g/m <sup>3</sup>
<b>Maximum Solid Body Diameter</b>	5 mm	5 mm
<b>Part No.</b>	7236025	7236030

\* Duty Cycle = 2 hours on, followed by 1 hour off.



PSE1A



PSE2A

## FOR YOUR OWN SAFETY

### KEEP CHILDREN AWAY

- Do not allow children to touch the pump, cables or connections.

### USE A RESIDUAL CURRENT DEVICE:

- The pump must be connected to a high sensitivity residual current device (RCD) which has a tripping current of less than 30mA.

### STORAGE

- When not in use, the pump should be stored in a dry, secure place out of the reach of children.

### WATER TEMPERATURE

- Do not use the pump if the water is liable to freeze, as this can cause damage to the pump.

### MAINS SUPPLY

- Disconnect the pump from the mains supply when not in use.

### REPAIRS

- Have the pump repaired by a qualified person.

### DO NOT ABUSE THE MAINS LEAD

- Never carry the pump by the mains lead.
- Never pull the mains lead to disconnect the pump from the mains socket.
- Keep the mains lead away from heat, oil and sharp edges.
- Always check the plug, mains cable and float switch cable for damage before use. Do not use the pump if damaged. Refer to qualified service personnel for repair.
- 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.
- Do not lower the pump using the mains lead, Always use the handle with a rope or cord attached if necessary,.

### DO NOT ABUSE THE FLOAT SWITCH

- Do not lift the pump by the mains or float switch cables.

## ELECTRICAL CONNECTIONS


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.

**WARNING! THIS APPLIANCE MUST BE EARTHED**

**IMPORTANT: The wires in the mains lead are coloured in accordance with the following code:**

Green & Yellow	-	Earth
Blue	-	Neutral
Brown	-	Live

As the colours of the flexible lead of this appliance may not correspond with the coloured markings identifying terminals in your plug proceed as follows:

- Connect GREEN & YELLOW wire to terminal marked with a letter "E" or Earth symbol  or coloured GREEN or GREEN & YELLOW.
- Connect BROWN wire to terminal marked with a letter "L" or coloured RED.
- Connect BLUE wire to terminal marked with a letter "N" or coloured BLACK.

If this appliance is fitted with a plug which is moulded onto the electric cable (i.e. non-rewireable) please note:

- 1 The plug must be thrown away if it is cut from the electric cable. There is a danger of electric shock if it is inserted into a mains power socket.
- 2 Never use the plug without the fuse cover fitted.
- 3 When replacing a detachable fuse carrier, ensure the correct replacement is used (as indicated by marking or colour code).
- 4 Replacement fuse covers can be obtained from your local dealer or most electrical stockists.

### FUSE RATING

The fuse in the plug must be replaced with one of the same rating (**13 amps**) and this replacement must be ASTA approved to BS1362.

**We strongly recommend that this machine is connected to the mains supply via a Residual Current Device (RCD)**

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

## RECOMMENDED USES

The recommended uses for this pump are:

- Drainage after flooding
- The transfer of liquids
- Drainage of containers
- Taking water from wells and shafts

Liquids that **CAN** be pumped:

- Clean water
- Contaminated water (maximum particle size 5 mm)
- Swimming pool water

**Note: After pumping chlorinated water or other liquids containing additives, the pump should be rinsed with clean water**

- Soapy water

Liquids that **MUST NOT** be pumped are:

- Corrosive substances
- Combustible or explosive substances (petrol, thinners etc.)
- Fats, oils or salts
- Waste from toilets or urinals

## PARTS IDENTIFICATION



May be supplied fitted to the pump



## PREPARATION

### CONNECTING THE MULTI HOSE ADAPTOR

#### WARNING!

**DISCONNECTED THE PUMP FROM THE MAINS POWER SUPPLY BEFORE  
CONNECTING THE MULTI HOSE ADAPTOR**

An Elbow is provided with a 1-1/4" BSP thread at either end as shown in the diagram opposite.

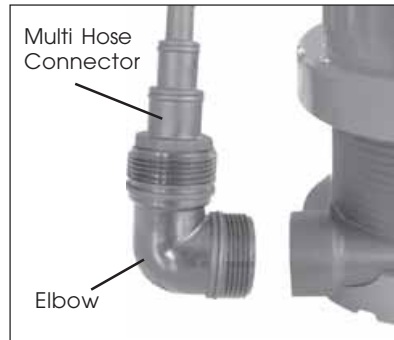
Ensure the end fitted with an O-Ring is screwed into the pump.

Screwed on to the other end of the elbow, is a multi hose connector capable of accepting 1", 3/4" or 1/2" hoses. Simply cut the multi hose connector to the required size and attach a suitable hose using with a worm drive clip.

For maximum efficiency, we strongly recommend that you connect a 1" diameter hose to the multi hose adapter,

Alternatively, you may remove the multi adapter altogether, and screw on a 1-1/4" BSP hose adapter

The pump is completely submersible, and should be placed in a vertical position, on a solid flat surface, Placing the pump on a couple of house bricks if required.



**SUITABLE HOSES, and SPARE/REPLACEMENT MULTI HOSE ADAPTERS ARE  
AVAILABLE FROM YOUR CLARKE DEALER**



## USING THE PUMP

### CAUTION!

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

- 1 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 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 40 x 40cm
  - ALWAYS raise and lower the pump using a rope attached to the lifting handle.
  - Take all necessary precautions as described on page 4 before plugging in, and switching ON.

### WARNING!

**NEVER CARRY THE PUMP USING THE MAINS POWER CABLE. DAMAGE TO ELECTRICAL CABLES CAN BE HAZARDOUS . ALWAYS USE THE HANDLE WHEN MOVING THE PUMP.**

- 2 Connect the mains plug to a high sensitivity residual current device (RCD) which has a tripping current of less than 30mA.
- 3 Switch the mains power supply on,
  - The pump incorporates a float switch, which automatically switches the pump ON when the water is above a pre-determined level.
- 4 The pump will begin to drain water.
  - As the water level falls, so will the float switch, until it stops the pump.
- 5 When the pumping is finished, disconnect the pump from the mains power supply
  - The pump is fitted with a thermal cut out to protect the motor from overheating. If the thermal cut out activates, the motor will automatically switch back on when it has cooled down sufficiently.

### CAUTION!

**DO NOT ALLOW THE PUMP TO RUN DRY.**

## CLEANING AND MAINTENANCE

### WARNING!

**MAKE SURE THAT THE PUMP IS DISCONNECTED FROM THE MAINS SUPPLY BEFORE CLEANING, OR PERFORMING ANY MAINTENANCE.**

- These pumps 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.
- Do not attempt to repair the pump yourself, repairs must be carried out by your CLARKE dealer, or contact the CLARKE Service Department, on 020 8988 7400.
- Check the pump regularly to ensure the base is clear of leaves or other debris.

### Replacing the Impeller

- 1 Remove the 3 screws on the base of the pump, and remove the cover.
- 2 Use a small flat headed screwdriver to remove the circlip.
- 3 Pull the old impeller off of the shaft.
- 4 Replace with a new impeller and lock it in place using the circlip.
- 5 Replace the base and use the 3 screws to secure.



## TROUBLE SHOOTING

PROBLEM	PROBABLE CAUSE
Pump will not start.	Water level too low - float switch in OFF position.  Float switch may be jammed against side wall, or prevented from moving.
Pump will start but not pump.	Check that the base is not blocked.  Discharge tube clogged or obstructed. 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. (See specification chart page 3).  Air lock 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.  Impeller may be damaged - Consult your CLARKE dealer.
Pump will not stop.	Float switch may be prevented from moving to the fully down position.  Float switch may be faulty. Consult your CLARKE dealer for advice.
Pump stops running.	Thermal overload has operated. If this condition persists, investigate the cause. DO NOT attempt to pump anything other than clean water.  Pump has run dry, or float switch has cut in.  A foreign object has jammed the impeller.

## PARTS & SERVICE CONTACTS

For spare parts and service, please contact your nearest dealer, or CLARKE International, on one of the following numbers.

**PARTS & SERVICE TEL: 020 8988 7400**

or e-mail as follows:

**PARTS: [Parts@clarkeinternational.com](mailto:Parts@clarkeinternational.com)**

**SERVICE: [Service@clarkeinternational.com](mailto:Service@clarkeinternational.com)**