

# Clarke®

## PUMP



## PUDDLE PUMP

MODEL No: PSP125

Part No: 7230692

## OPERATION & MAINTENANCE INSTRUCTIONS



## SPECIFICATIONS

Model number .....	PSP125
Rated voltage .....	230VAC 50Hz
Input power .....	293 Watts
Maximum delivery capacity .....	125 litres per minute
Maximum head .....	10.2 metres
Maximum particle size .....	3 mm
Maximum Depth .....	7 meters
Min. water level for operation .....	2-3 mm
Power cable length .....	10 metres
Weight (approx.) .....	4.83 kg with cable
Part Number .....	7230692

**Please note that the details and specifications contained herein, are correct at the time of going to print. However CLARKE International reserve the right to change specifications at any time without prior notice. Always consult the machine's data plate**



When disposing of this product, do not dispose of with general waste. It must be disposed of according to the laws governing Waste Electrical and Electronic equipment, at a recognised disposal facility.



Thank you for purchasing this CLARKE puddle pump.

Before using the pump, please read this manual thoroughly and follow the instructions carefully, in doing so you will ensure the safety of yourself and that of others around you, and you can look forward it giving 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.

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## SAFETY INSTRUCTIONS

**KEEP CHILDREN AWAY:** Do not allow children to touch the puddle pump, cables or connections. Visitors should be kept away from the work area.

**STORE IDLE TOOLS:** When not in use, the puddle pump should be stored in a dry, secure place out of the reach of children.

**DISCONNECT TOOLS:** Disconnect the puddle pump from the mains supply when not in use, or when making adjustments etc.

**REPAIRS:** Have the puddle pump repaired by a qualified person.

**STAY ALERT:** Watch what you are doing. Use common sense and caution. Never operate the puddle pump when you are tired.

**DO NOT ABUSE THE MAINS LEAD:** Never carry the puddle pump by the mains lead or pull it to disconnect it 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 prior to use. Do NOT use 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.

**USE A RESIDUAL CURRENT DEVICE:** To provide personal protection against harmful electric current, the puddle pump must be supplied through a high sensitivity residual current device (RCD) with a rated residual operating current not exceeding 30mA.

**POWER LEAD:** If you need to lower the pump into a shaft or well, Tie rope round the handle and lower the pump using the rope. Do not lower the pump using the mains lead.

**SWIMMING POOLS:** If the pump is being used to drain swimming pools, ensure that no children or animals are in the pool whenever the pump is being used.

# 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 cord to terminal marked with a letter "E" or Earth symbol " " or coloured GREEN or GREEN & YELLOW.
- Connect BROWN cord to terminal marked with a letter "L" or coloured RED.
- Connect BLUE cord 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 subsequently inserted into a socket outlet.
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.

## PARTS IDENTIFICATION



## 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 3 mm)

**Note: always consider the outlet hose diameter**

- Swimming pool water

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

This puddle pump is not designed for circulating operations (i.e. water fountain).

# PREPARATION

## CONNECTING THE OUTLET HOSE

### WARNING!

**ENSURE THAT THE PUDDLE PUMP IS DISCONNECTED FROM THE MAINS POWER SUPPLY BEFORE CONNECTING THE HOSE.**

**NOTE: The outlet hose is not supplied with the puddle pump.**

The puddle pump is supplied with a multi hose adapter (as illustrated), for use with 25 mm (1") and 32 mm (1-1/4") hoses,

**IMPORTANT!** When screwing on the adapter, ensure the non-return valve is correctly located so that the flap opens upwards.

The multi hose adapter allows hose to be attached using hose clips or screw-on adapters.

If you wish to connect a 1" hose using a hose clip, simply attach it to the end of the adapter.

If you wish to use a 1" BSP hose adapter (for 1" dia. hose), cut the multi hose adapter at point A.

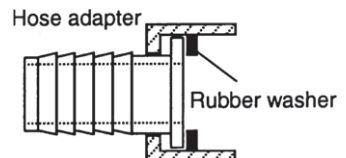
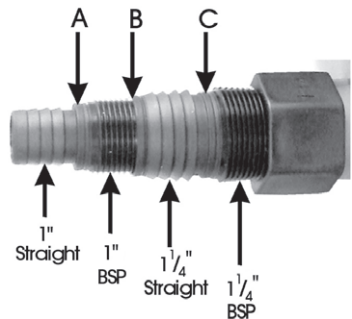
If you wish to connect a 1-1/4" hose using a hose clip, cut the adapter at point B

If you wish to use a 1-1/4" BSP hose adapter (for 1-1/4" dia. hose), cut the multi hose adapter at point C.

We strongly recommend that you connect the outlet to the 1-1/4" diameter, as any restrictions will reduce capacity, and put additional strain on the motor.

### NOTE:

*Please bear in mind that a hose adapter requires the use of a rubber washer, and the point at which the multi hose adapter is cut (points A and C), must be perfectly clean and square.*





# USING THE PUDDLE PUMP

## **WARNING!**

***BEFORE USING THE PUDDLE PUMP, CHECK TO MAKE SURE THAT IT IS NOT DAMAGED. DO NOT USE A DAMAGED PUMP. REFER TO QUALIFIED SERVICE PERSONNEL.***

- 1 Connect an outlet hose. See page 8.
  - Make sure the outlet hose is clear of obstructions and not kinked.
- 2 The pumps are completely submersible, and should be placed in a vertical position, on a solid flat surface. If this is not available, sit the pump on a solid surface, eg. house bricks, but ensure they are not likely to shift.

## **IMPORTANT:**

**ALWAYS RAISE AND LOWER THE PUMP USING A ROPE ATTACHED TO THE LIFTING HANDLE, NEVER BY THE POWER CABLE.**

- 3 Connect the mains power cable to a high sensitivity residual current device (RCD) with a tripping current of <30mA to provide personal protection against harmful electric current.
- 4 Switch the mains power supply on, and place the pump into the water you want to drain.
  - The pump will automatically switch on whenever the water depth is above 85 mm.
- 5 The pump will begin to drain water to a predetermined depth of 25mm.
- 6 To drain down further (to a height of 2-3 mm) or if the water depth is less than 85 mm, set the control switch to the M (manual) position.
  - 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.
- 7 When the pumping is finished, switch off and disconnect from the mains power supply.

## **WARNING!**

***DO NOT ALLOW THE PUMP TO RUN DRY. IF THE PUMP IS RUN DRY, INCREASED WEAR WILL OCCUR AND CAUSE DAMAGE TO THE PUMP. SIMILARLY, DO NOT ALLOW THE PUMP TO RUN FOR MORE THAN 10 MINUTES IF THE DELIVERY SIDE BECOMES BLOCKED AS THIS MAY CAUSE DAMAGE TO THE PUMP.***

# CLEANING AND MAINTENANCE

## WARNING!

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

- Always keep the body of the pump, clean and free from dirt, sediment and debris.
- If the base becomes clogged it must be disconnected from the mains and clean the base.



- To gain access to the float compartment to check float functioning, and to clean the compartment etc., push the control switch fully down to the O' position and pull off the cover.



## TROUBLE SHOOTING

PROBLEM	PROBABLE CAUSE	REMEDY
Pump is running but does not deliver	Outlet hose blocked or kinked. Air locks in the suction base.	Unblock or straighten outlet hose. Allow the pump to run for 1 minute.
Pump does not start or stop during operation.	Thermal cut out has activated due to overheating.  No Power.	Allow to cool then disconnect from the mains. Make sure that there are no blockages. Check fuses and electrical connections.
Pump runs, but output suddenly decreases	Base is clogged.	Disconnect from the mains and clean the base.