

ClarkeTM

PUMP

OPERATING & MAINTENANCE
INSTRUCTIONS



POND PUMP

Model Nos: SSP3 & SSP6



0111

Thank you for purchasing this CLARKE Water Pump, which is particularly suitable for the filtration of small to medium size swimming pools and ponds and for pumping clean water or water containing small solids in suspension.

To help ensure long, trouble free performance and the protection afforded by the warranty, please carefully follow all the instructions and recommendations given in this booklet.

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.

SAFETY PRECAUTIONS

1. Ensure the pump is installed in a horizontal position with the outlet facing vertically upwards, and that it is firmly anchored via its fixing screws.
2. Ensure there is an adequate air flow around the pump. DO NOT mount it in an enclosed atmosphere.
3. Ensure all water pipes - supply or discharge, are adequately supported where necessary, so as not to put a strain on the pump connections.
4. DO NOT allow the pump to run dry, as this will cause serious damage to the pump seals.
5. Ensure the inlet to the pump is completely unrestricted.
6. Ensure the pump is protected from the elements, neither the motor nor the electrical terminal box is intended to be waterproof.
7. Ensure that all pipes are protected against damage where necessary, and that they are suitably lagged to avoid the possibility of freezing during cold weather.
8. NEVER switch the pump ON when the pool is in use. ALWAYS disconnect the pump from the electrical supply.
9. **THIS PUMP MUST BE CONNECTED TO THE ELECTRICAL SUPPLY VIA A RESIDUAL CURRENT DEVICE (RCD)**

ELECTRICAL CONNECTIONS

WARNING!

THIS PUMP MUST BE CONNECTED TO THE ELECTRICAL SUPPLY VIA A RESIDUAL CURRENT DEVICE (RCD)

Connect the mains lead to a standard, 230 Volt (50Hz) electrical supply through an approved 13 amp BS 1363 plug via an Residual Current Device.

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 the 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 "L" or coloured RED.
- Connect BLUE cord to the terminal marked with "N" or coloured BLACK.

If this appliance is fitted with a plug which is moulded onto the electric cable (i.e. non-rewirable) 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. Should you wish to replace a detachable fuse carrier, available from your local dealer or most electrical stockists, ensure that the correct replacement is used (as indicated by marking or colour code).

Fuse Rating

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

Cable Extension

If a cable extension is needed, it is essential to ensure that the size of the conductors is at least the same size as those of the power cable supplied.

Do not attempt electrical installation work if you are in any doubt as to how it should be done properly. Consult a qualified electrician.

WATER CONNECTIONS

IMPORTANT: DO NOT connect the pump to the power supply until the hose/pipe installation is completed.

Because of the variety of possible installations, no plumbing accessories are supplied as standard with your pump. However, accessories designed specifically for this range of pumps are available from your CLARKE dealer and are listed on page 6.

The pump must always be installed and operated in a horizontal position i.e. with the outlet port (see Fig.1), facing vertically upwards. The fixing slots in the base should be used as necessary to secure the pump firmly in its operating position. Also, ensure that there is adequate air circulation around the motor.

Avoid situations where there is the risk of water coming into contact with the outside of the pump. Neither the motor or the terminal box are intended to be waterproof.

Attach suitable 1" ID hose to the inlet port, securing with a worm drive clip. The other end of the hose should be connected to a strainer, or foot valve/filter depending upon the type of installation (see below), and should rest on the bottom of the pool. Ensure all connections are air tight.

Attach also a suitable 1" ID hose to the outlet port using a worm drive clip. The other end of the hose should be connected to your Water Filter (available from your Clarke dealer - see page 6). Ensure there are no kinks in the hose.

These notes are for guidance on how to achieve a proper working system.

The schematic diagrams, figs. 3 and 4, illustrate possible methods of pipework installation. This pump is designed primarily, to be gravity fed, that is, drawing water from an above ground pool. However, it is possible to draw water from a sunken pool, providing the suction lift does not exceed the distance specified for your pump (see Specifications on page 7).

A. SUCTION LIFT

The suction lift i.e. the vertical distance between the water level and the pump should not exceed the distance specified for your pump (see Specifications on page 7).

A foot valve/filter **MUST** be fitted to the lower end of the suction hose, (as illustrated in fig.2), so as to help retain water in the suction system. Remember.... this is NOT a self priming pump.

Fig.1

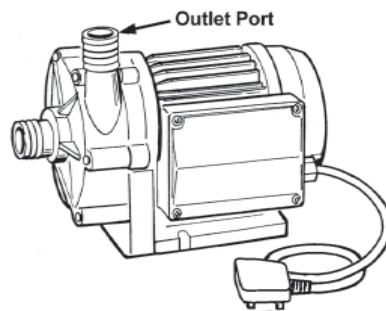
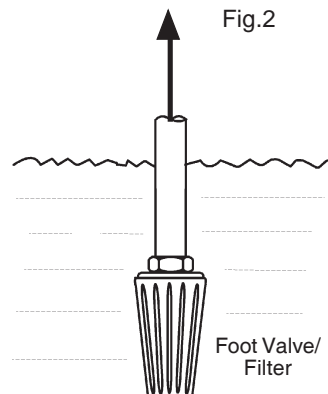


Fig.2



The delivery head i.e. the vertical distance between the pump and the point of discharge should not exceed distance specified for your pump (see Specifications, page 7).

When suction lift is used to draw water into the pump it is essential that all connections and hoses are completely air tight, otherwise the system will not work.

Before pumping will start it is essential to completely fill the suction side with water. This is known as **priming the pump** and is carried out as follows :-

1. With the pump, all inlet pipes/hoses and the foot valve in position, slowly pour water into the outlet port. Wait until all air is expelled...this may take a minute or two...and fill to the brim before connecting the outlet hose to the outlet port. The hose is then led away to the water filter.
2. Switch on the pump. Water should start to flow through the system.
Check for leaks and repair as necessary

Do not allow the pump to run dry, otherwise the seal between the pump and motor may be damaged. If a leak is noticed at this point it may indicate that the seal is worn and therefore in need of replacement. Contact your CLARKE dealer, or the Clarke International Service Department for advice.

B GRAVITY FEED

Do not place any restriction on the inlet side of the pump.

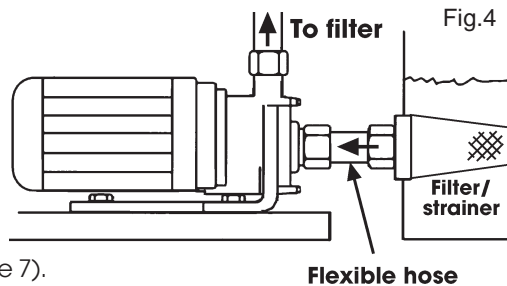
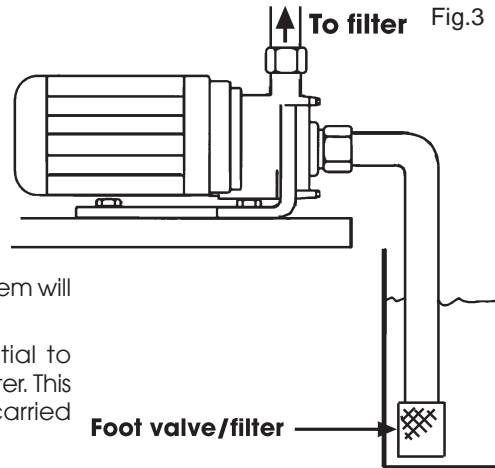
The delivery head i.e. the vertical distance between the pump outlet and the point of discharge should not exceed distance specified for your pump (see Specifications, page 7).

To prevent unnecessary strain or possible distortion to the pump, ensure that adequate support is provided to the hoses and/or pipes. Remember they will be considerably heavier when filled with water.

Remember - this pump is designed for pumping CLEAN WATER with small solids in suspension, ONLY. DO NOT USE for pumping chemicals or other corrosive liquids (other than pool purification chemicals in their correct mix ratio).

Protect the pump and pipework from freezing. The formation of ice may cause serious damage.

NOTE: For the fitting of filters/strainers, please consult the manufacturers manual.



TROUBLE SHOOTING

If the system is set up properly, there is little likelihood of problems arising, but if water will not flow as it should then check the following points:-

1. If using a suction lift, the suction hose and connections need to be completely air tight, otherwise air will be drawn in and either reduce or completely stop the flow of water.

Additionally, ensure that the system has been fully primed with water up to the top lip of the outlet port adapter.

2. Check to see that no foreign matter is fouling the intake system - check the strainer is not blocked or obstructed.

Should you still experience problems, then contact your Clarke dealer, or CLARKE International Service Department for advice.

ACCESSORIES

Foot Valve Filter Brass	7950561
1" I.D. Reinforced Hose for suction and delivery.	7955010
Water Filter	7175100
Water Filter cartridge	LDCF10

SPARE PARTS & SERVICING

Please contact your nearest dealer, or
CLARKE International, on one of the following numbers.

PARTS & SERVICE TEL: 020 8988 7400

PARTS & SERVICE FAX: 020 8558 3622

or e-mail as follows:

PARTS: Parts@clarkeinternational.com

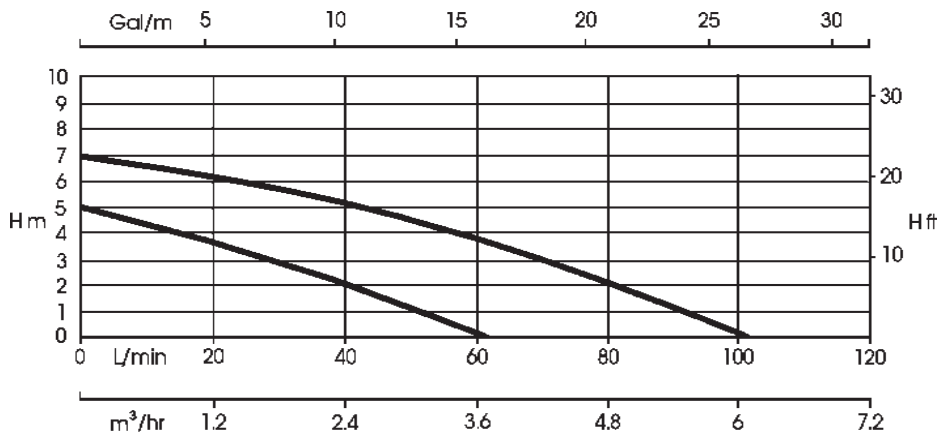
SERVICE: Service@clarkeinternational.com

SPECIFICATIONS

Motor	230V 50Hz 1ph	230V 50Hz 1ph
Power	180 Watts	260Watts
Current	0.9 Amps	1.1 Amps
Capacitor	4uF 450V	4uF 450V
Speed	2800 rpm	2800 rpm
Fuse Rating	13 Amps	13 Amps
Max. Head	5M	7M
Max. Lift (Suction)	2M	2M
Inlet Bore Size	1"	1"
Outlet Bore Size	1"	1"
Max. Output	60 L/min (3.6M ³ /h)	100 L/min (6M ³ /h)
Insulation Rating	IP44	IP44
Dimensions (LxWxH)	255x150x190mm	255x150x190mm
Part No.	7175010	7175020

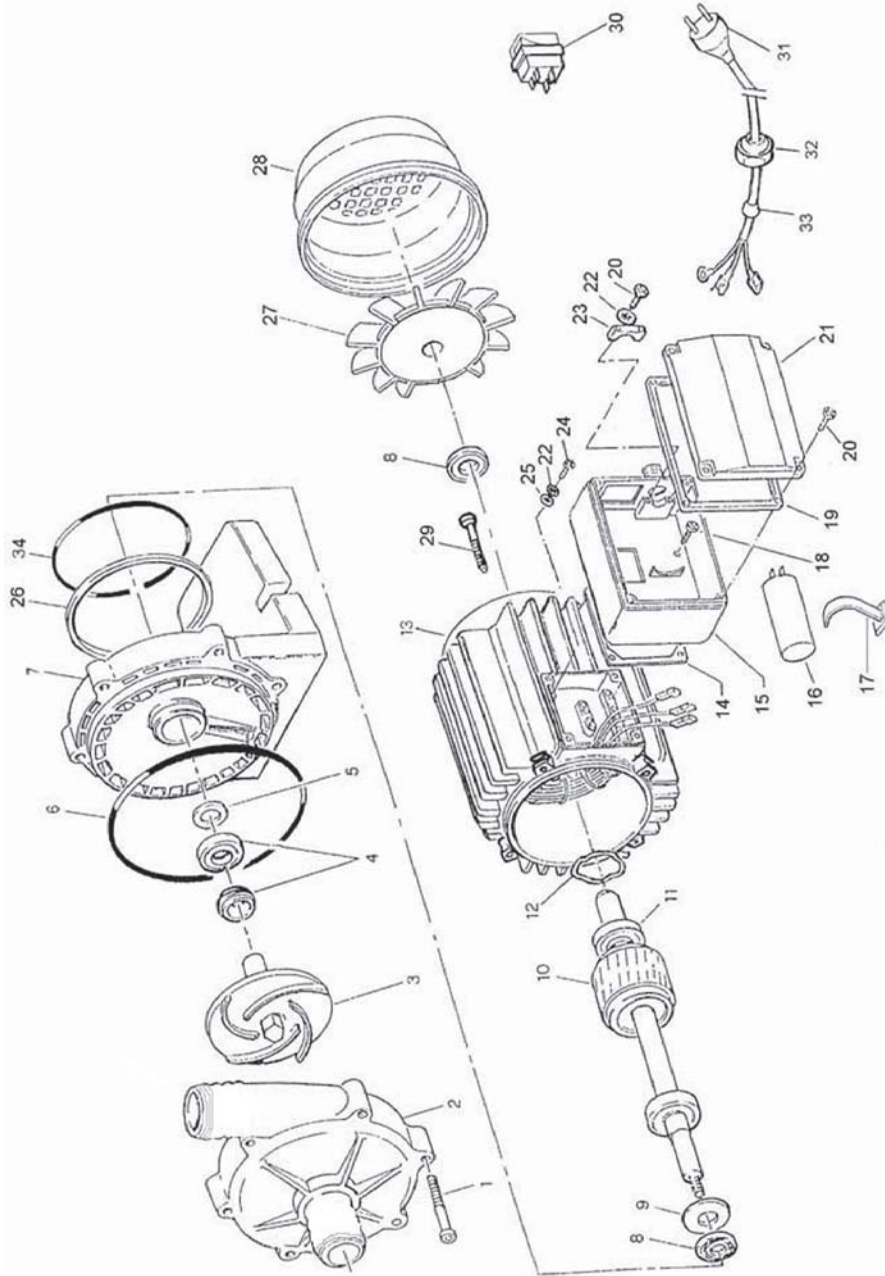
NOTE: As the pumping head is increased, so the flow rate of water will decrease.

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



	Watts	Volts	Amps	Q	L/m	20	40	60	80	100
					m ³ /h	1.2	2.4	3.6	4.8	6
SSP3	180	230/50Hz.3	0.9	Hm	3.8	2	0.3			
SSP6	260	230/50Hz.3	1.1	Hm	6.2	5.1	3.7	2	0.2	

PARTS DIAGRAM



PARTS LIST

No.	Description	Part No.
1	Screw	LDP1100044
2	Pump housing	LDS3500279
3	Impeller SSP3	LDS3500276
3	Impeller SSP6	LDS3500277
4	Mechanical seal	LDP1220003
5	Joint	LDP1240012
6	Joint O.Ring	LDP1200027
7	Flange	LDS3600373
8	Lip seal	LDP1210001
9	Washer	LDP1120007
10	Shaft with bearings SSP3	LDS3101011
10	Shaft with bearings SSP6	LDS3101012
11	Bearing	LDP1180007
12	Waved ring	LDP1120002
13	Stator SSP3	LDS3410198
13	Stator SSP6	LDS3410199
14	Gasket 63/71	LDS3500199
15	Base capacitor holder	LDS3500214
16	Capacitor	LDP1360035
17	Clip	LDS3500205
18	Screw	LDP1100004
19	Joint O.Ring	LDP1200021
20	Screw	LDP1100006
21	Cap capacitor holder	LDS3500218
22	Spring-washer	LDP1120003
23	Cable fastener	LDP1510004
24	Earth screw	LDP1100055
25	Washer	LDP1120051
26	Compression ring	LDS3501016
27	Fan Mec 63	LDP1510014
28	Fan cover Mec 63	LDP1510043
29	Screw	LDP1100103
30	Switch	LDP1380044
31	Cable UK plug	LDP1330013
32	Nut	LDP1510009
33	Joint d9	LDP1230001
34	Joint O.Ring	LDP1200017