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MEGA-MIX

Operator's Manual



Declaration of Conformity



Date: 19th December 2022

Machine Model: Mega-Mix

Description: Fertilise mixing station

Serial Number:

I hereby certify that the machine detailed hereon conforms to:

UK Supply of Machinery (Safety) Regulations 2008

European Directives 89/392EEC as amended on 91/368EEC - 93/368EEC - 93/68EEC

Signed: 

M. J. Oliver

Product Development Manager

GreenTek Solutions Ltd

Rudgate

Walton

Leeds

LS23 7AU

UK

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Mega-Mix Operator's Instructions

Introduction

Thank you for purchasing the Greentek Mega-Mix fertiliser mixing station. This British designed and built product has been engineered to give years of use, provided it is used and maintained correctly. As with all equipment it is essential that all operators read and follow these instructions in order to use the Mega-Mix safely without endangering themselves or other persons.

It is recommended that this manual is thoroughly understood before the equipment is operated.

Operation of the mixing station contrary to the instructions contained in this manual, or modification to the equipment without prior agreement with GreenTek will invalidate any undertakings given by the manufacturer in regard to this product.

Whilst every effort has been made to ensure the accuracy of information contained within this manual, GreenTek Solutions Ltd can assume no responsibility for any errors, omissions, or their consequences.

Please contact GreenTek regarding any part of this manual that requires further clarification.

GreenTek reserves the right to change the content of this manual without prior notice.

Machinery markings

Your machine carries a serial number plate with important manufacturing details on it. Please quote your Serial Number when ordering spare parts.

Application

The Mega-Mix is a mixing station designed for mixing and decanting spraying solutions of soluble or liquid fertiliser, or other amenity turf treatment solutions such as herbicides and fungicides.

Safety Warnings



ONLY run the engine in a well ventilated area or outdoors.

Electric powered mixing stations must be connected to an earthed power supply, protected by an RCD safety cut-out. Do not use extension cables.

Never move the mixing station with liquid in the tank as this will be an unstable load.

It is important at all times to wear suitable PPE for handling chemicals, and to follow the chemical manufacturer's instructions regarding safety, dilution, and application rates. If you wish to blend multiple chemicals it is essential to confirm their compatibility with the relevant suppliers.

Remember: it is the operator's responsibility to always ensure that this machine is in safe working order before use, and that conditions are suitable for it to be used without endangering the operator or others.

General

The pump must not be allowed to run dry, as this will cause premature wear to the pump seals.

The Mega-Mix must be drained of all liquid before it is exposed to temperatures of zero degrees Celsius or below, in order to avoid frost damage. It must be stored in a frost-free environment when not in use.

When using the pump after it has been drained, first prime the pump with water via the filler cap on top of the pump housing.

Engine Operation

Full details regarding the operation of the engine can be found in the Honda Operators Manual supplied in the mixing station's manual pack.



ONLY run the engine in a well ventilated area or outdoors.

ENSURE all the valves of the mixing station are in the correct position for the desired task prior to starting the engine.

DO NOT adjust the maximum rev setting of the engine.

DO NOT run the engine with the choke lever on as this will damage the engine. The engine will require choke before starting. Once the engine has started ease back the choke lever to the off position.

NEVER fill the petrol tank when the engine is hot.

ALWAYS ensure the fuel cap is correctly refitted after filling the engine with petrol.

It is important that the fuel tap on the engine is turned off when the mixing station is not in use.

Inspect the equipment regularly for damage or wear. Do not use if any repairs are necessary.

Valve Operation

The mixing station is fitted with three 3-way ball valves to control the flow of liquid.

The 'SUCTION' valve is used to select between drawing liquid from the tank when mixing/transferring or from the cam coupler during filling.

The 'PRESSURE' valve is used to send liquid back to the tank for mixing or to the transfer hose.

The 'AGITATE' valve is used to switch between the upper and lower agitator outlets.

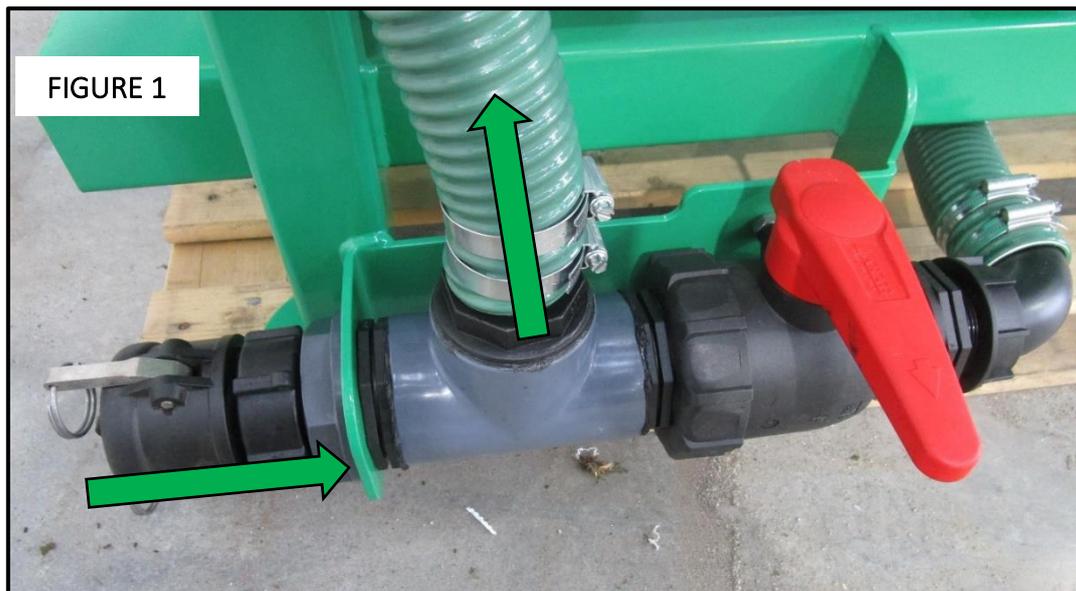
Failure to ensure the valves are in the correct position can block the flow of liquid which may cause damage to the pump, fittings and pipework of the mixing station

3-way ball valves have two positions. Ensure the arrow on the red handle is always pointing in line with the pipe fittings.

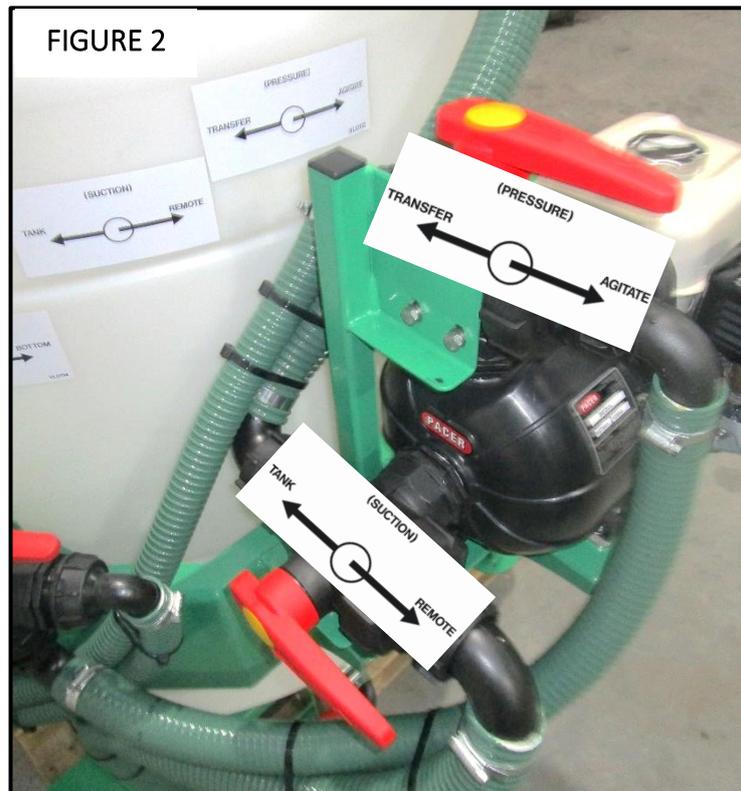


Filling the Tank

Option 1. The tank can be filled by connecting a hose to the connector at the top of the tank. A ballcock valve inside the tank will automatically shut off the flow when full.



Option 2. Alternatively, a suction hose can be connected to the 2" cam coupler on the lower chassis. This enables it to suck water out of a tank or irrigation system. In this mode, ensure that the inlet valve is closed (as pictured in Figure 1) before connecting the cam coupler



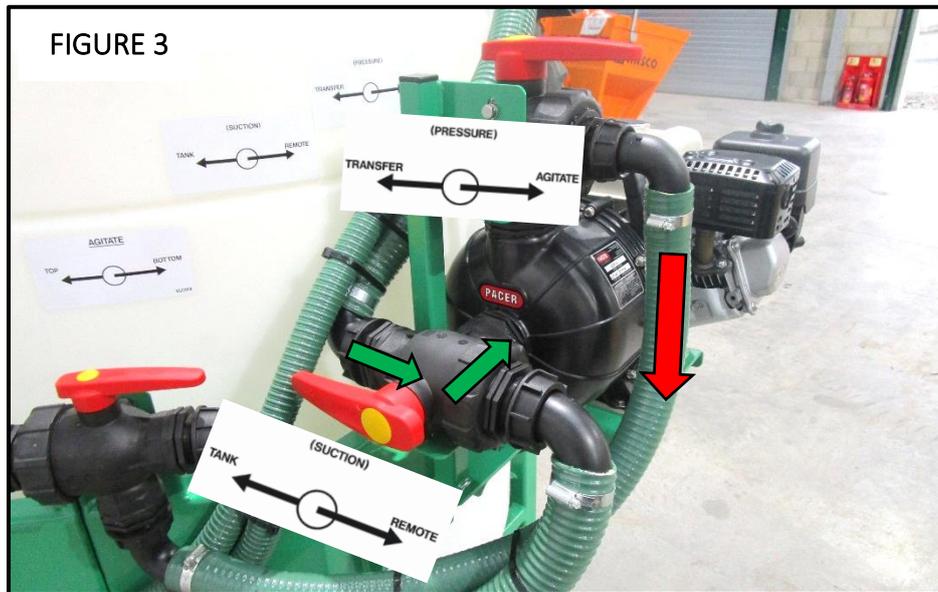
Move the 'SUCTION' valve to the 'REMOTE' position and the 'PRESSURE' valve to the 'AGITATE' position (Fig. 2). This will draw liquid from the cam coupler inlet (Figure 1) and pump it into the tank.

Start the engine, observe the level gauge and fill the tank to the desired level.

Switch off the engine, disconnect the cam coupler and replace the cap.

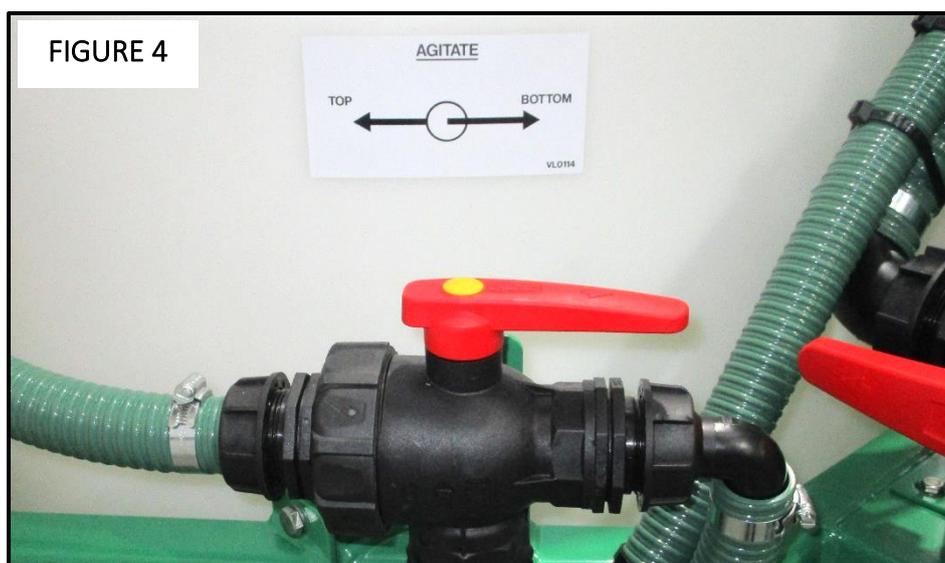
IMPORTANT: Never move the mixing station with liquid in the tank.

Mixing the Contents of the Tank

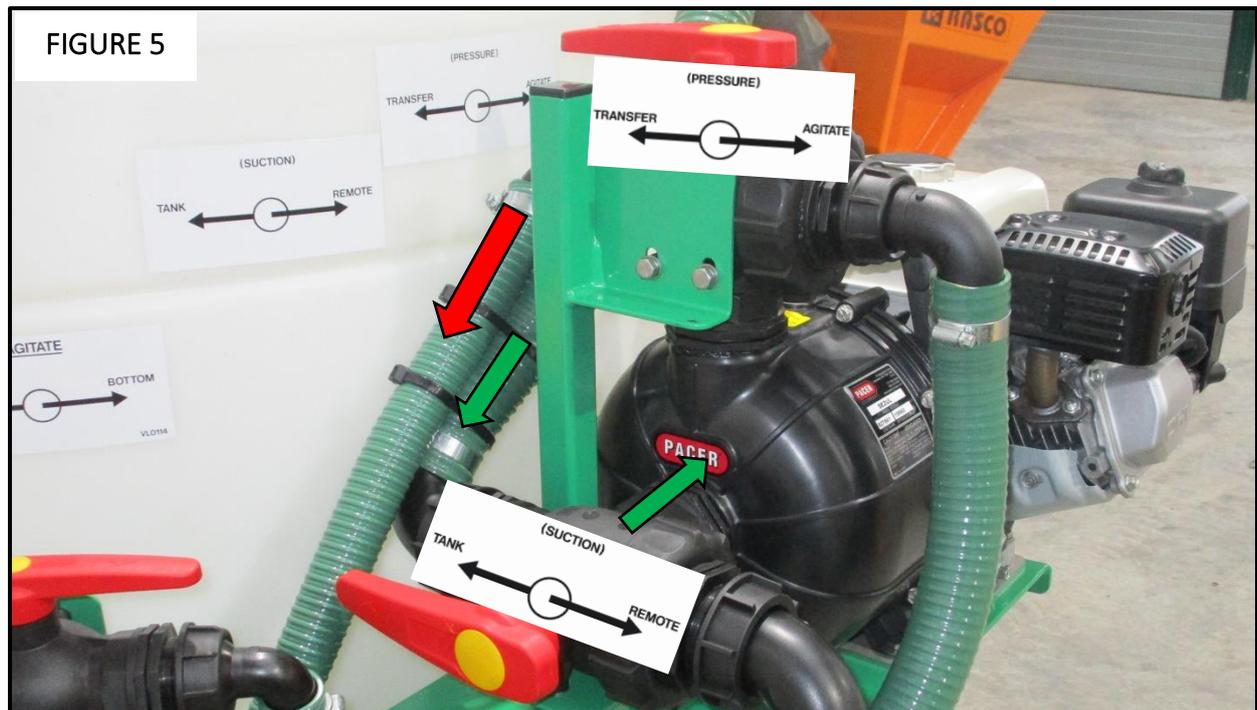


Fill the tank with a minimum of 200 litres of water before adding any granules. To mix the contents of the tank move the 'SUCTION' valve to the 'TANK' position and the 'PRESSURE' valve to the 'AGITATE' position. This will draw liquid up the pipe in the centre of the tank, through the pump, and return it to the tank at high pressure, mixing the contents.

To ensure that the contents are thoroughly mixed, the flow can be directed through either the upper or lower outlets by adjusting the 'AGITATE' valve (Figure 4).



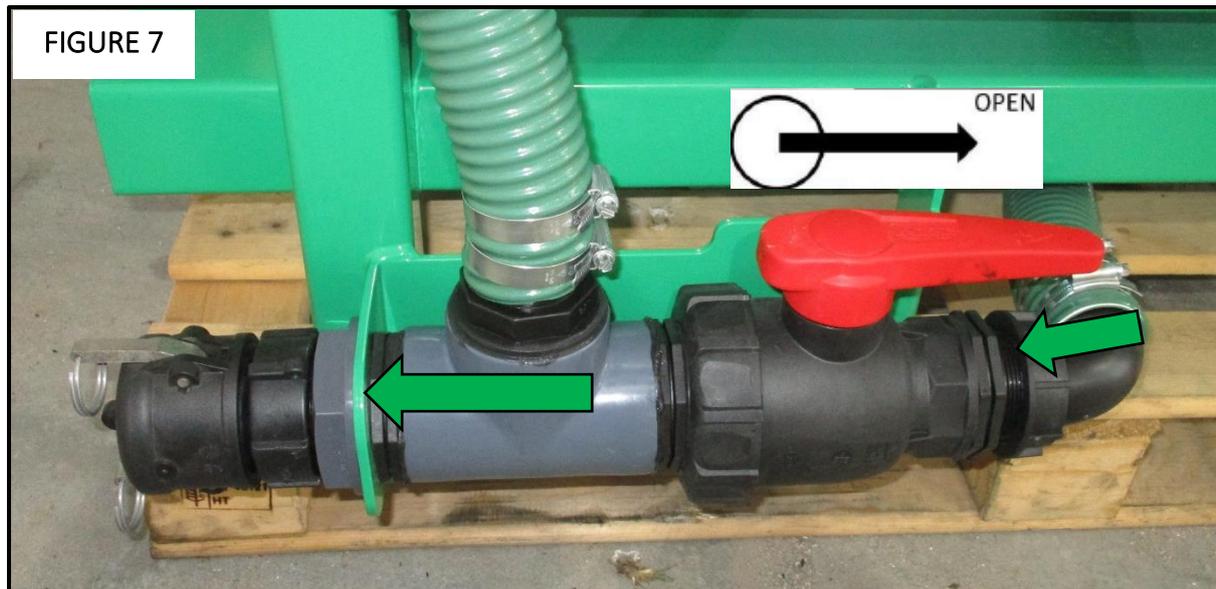
Transferring the Contents of the Tank



To transfer the contents of the tank to your sprayer, move the 'SUCTION' valve to the 'TANK' position and the 'PRESSURE' valve to the 'TRANSFER' position. This will draw liquid up the pipe in the centre of the tank through the pump and send it to the transfer hose. Open the valve on the end of the transfer hose to transfer the desired amount of liquid. (Figure 6).



Cleaning and Draining the Tank



Mixed solutions should not be left in the tank overnight. Once you have used the last mix for the day, fill the tank full of water and then run the pump to flush everything through. Anything that was in the system will then be so diluted that you can leave that tankful of water ready for your next mix another day.

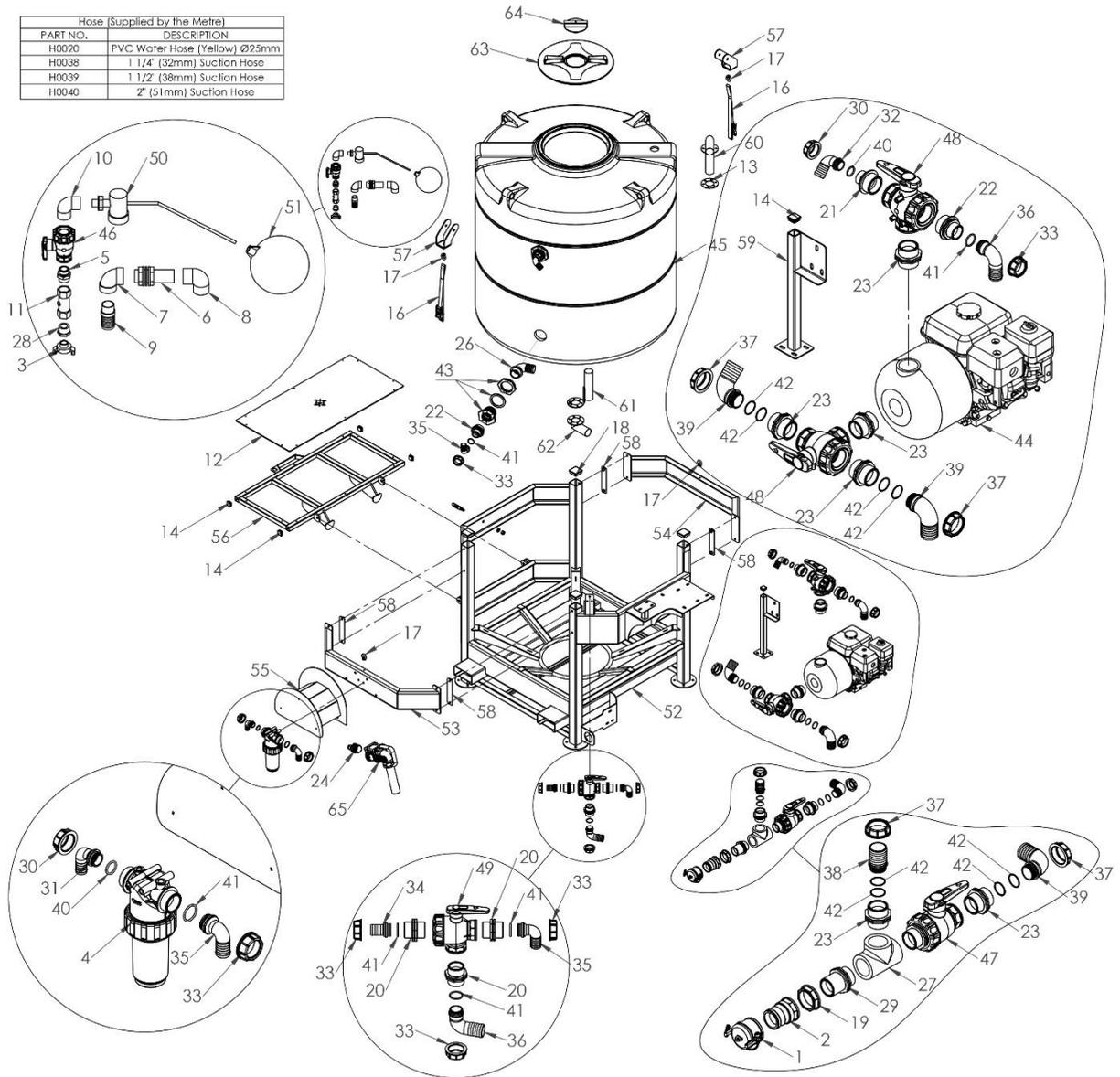
IMPORTANT: The Mega-Mix must be drained of all liquid before it is exposed to temperatures of zero degrees Celsius or below, in order to avoid frost damage. It must be stored in a frost-free environment when not in use. Damage caused by freezing is not covered by warranty.

To drain the bottom of the tank, remove the cam coupler cap and rotate the valve to the open position. Once drained, close the valve and replace the cam coupler cap.

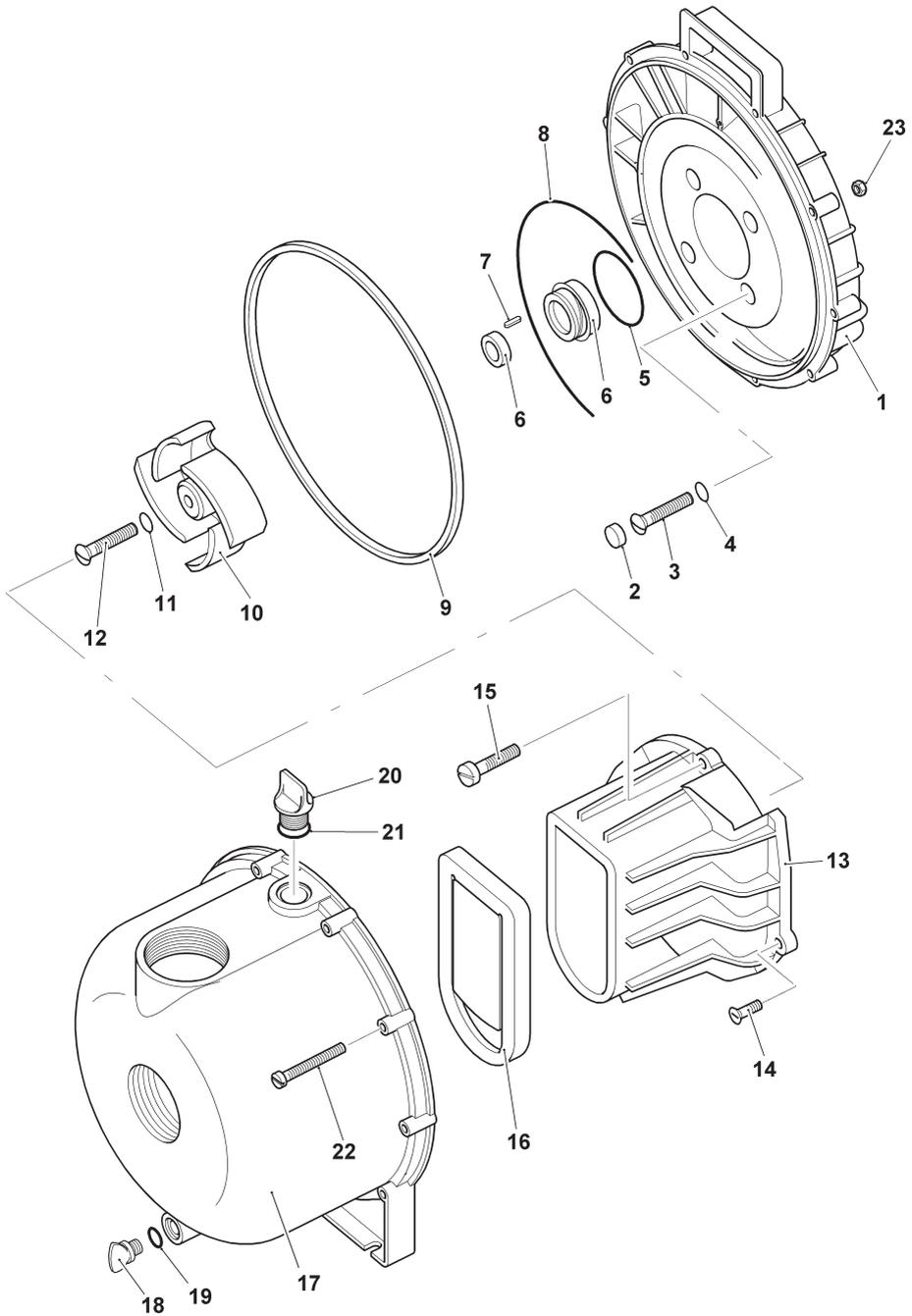
Guarantee

GreenTek equipment is guaranteed for 5 years for commercial use, and 3 months for hire use. This covers everything except components subject to fair wear and tear such as blades, brushes, belts, bearings, and drive splines etc, and damage caused by corrosion, abuse or lack of maintenance. Outsourced components such as engines, motors, pumps or valves carry the original manufacturer's warranty.

Hose (Supplied by The Metre)	
PART NO.	DESCRIPTION
H0020	PVC Water Hose (Yellow) Ø25mm
H0038	1 1/4" (32mm) Suction Hose
H0039	1 1/2" (38mm) Suction Hose
H0040	2" (51mm) Suction Hose



ITEM NO.	PART NUMBER	DESCRIPTION
1	C0004	Cam Coupler End Cap 2"
2	C0033	Cam Coupling Adaptor Female 2"
3	C0066	Connector x Male Thread 1/2" (Brass)
4	F0112	1 1/2" Male Pressure Inline Filter
5	MM001	3/4" M/M Brass Nipple
6	MM002	1" Spigot PVC Tank Connector
7	MM003	1" Threaded BSP PVC 90deg. Elbow
8	MM004	1" PVC Plain 90deg. Elbow (Inside Tank)
9	MM005	32mm x 1" PVC BSP Hosetail
10	MM006	3/4" BSP TM x BSP PF Brass Threaded Elbow
11	MM007	Double Check Valve Non-Return 3/4" BSP
12	P-01-0856	Checker Plate Step
13	P-01-1352	Internal Washer Plate (Inside Tank)
14	P-09-0010	30mm x 30mm Box Section Bung
15	P-09-0034	Anti Luce Fastener M12 x 26, Washer and Nyloc Nut
16	P-09-0062	Ratchet Strap 25mm Endless
17	P-09-0111	M6 Eye Nut
18	P-09-0198	60mm x 60mm Box Section Bung
19	PF0022	Backnut 2"
20	PF0040	Nipple 1 1/2"m x 1 1/2"m
21	PF0041	Nipple 2"m x 1 1/4"m
22	PF0042	Nipple 2"m x 1 1/2"m
23	PF0043	Nipple 2"m x 2"m
24	PF0070	Hosetail 1 1/2"m x 1" HT
26	PF0104	Hosetail 2"m x 2"ht x 90 Deg (Inside Tank)
27	PF0141	Threaded Tee 2" f x 2" f x 2" f
28	PF0153	Reducing Bush 3/4"m x 1/2" f
29	PF0180	Longthread Nipple 2"m x 2"m
30	PF0232	Flynut 1 1/4" f
31	PF0235	Flynut Liner 1 1/4" f x 1"ht 90 Deg.
32	PF0236	Flynut Liner 1 1/4" f x 1 1/4"ht 90 Deg.
33	PF0237	Flynut 1 1/2" f
34	PF0239	Flynut Liner 1 1/2" f x 1 1/4"ht
35	PF0242	Flynut Liner 1 1/2" f x 1 1/4"ht 90 Deg.
36	PF0243	Flynut Liner 1 1/2" f x 1 1/2"ht 90 Deg.
37	PF0244	Flynut 2" f
38	PF0246	
39	PF0248	Flynut Liner 2" f x 2"ht 90 Deg.
40	PF0254	O' Ring 1 1/4"
41	PF0255	O' Ring 1 1/2"
42	PF0256	O' Ring 2"
43	PF0269	Threaded Bulkhead Fitting 2" F
44	PU0016	Petrol Engine Driven Pump - Polyester, Lpm 757
45	T0014	Tank
46	V0007	Ball Valve, Banjo 2 Way 3/4" Single Union
47	V0011	Ball Valve, Banjo 2 Way 2" Single Union
48	V0115	3 way Ball Valve 2" Female
49	V0136	3 way Ball Valve 1 1/2" Female
50	V0170	High Flow Ballcock 3/4" 45mm Tail (Inside Tank)
51	V0171	Plastic Float Valve 6in (Inside Tank)
52	SA-03-0556	Main Frame Assembly
53	SA-03-0557	Hose Guide Mount
54	SA-03-0558	Side Brace
55	SA-03-0559	Hose Guide
56	SA-03-0560	Step
57	SA-03-0561	Tie Down Bracket
58	SA-03-0562	Tie Plate
59	SA-03-0563	Valve Support
60	SA-03-0564	Top Suction Tube
61	SA-03-0565	Internal Suction Tube (Inside Tank)
62	SA-03-0566	Bottom Suction Tube
63	TF0025	Tank Lid (Includes Item 14)
64	TF0030	Lid Valve with Vent
65	V0137	Ball Valve with Nozzle 1 1/2" F



Appendix 1 Water pump body assembly (S Series)

Appendix 1. Water pump service parts list.

Illustration Number	Description	Part Number	Quantity Required
1	Pump back plate (bracket) - Polyester (black)	9907-703-30	1
	Pump back plate (bracket) - Polypropylene (grey)	9907-703-40	1
2	Plug (Viton pumps only)	58-1750-90	4
3	Bracket screw, 5/16" x 1.25" stainless steel	9907-715-10	4
	Bracket screw, 5/16" x 1.5", st/steel (pedestal mount)	9907-728-10	4
4	O Ring, Buna *	9907-717-71	4
	O ring, EPDM *	9907-717-72	4
	O ring, Viton **	9907-717-73	4
5	O Ring shaft seal, Buna *	9907-976-71	1
	O Ring shaft seal, EPDM *	9907-976-72	1
	O Ring shaft seal, Viton *	9907-976-73	1
6	Shaft seal, Buna *	9907-714-11	1
	Shaft seal, EPDM *	9907-714-12	1
	Shaft seal, Viton **	9907-714-14	1
	(NB: Item 5 is included in the shaft seal kit, item 6).		
7	Shaft impeller key, mild steel	9907-0718-00	1
	Shaft impeller key, stainless steel	9907-0718-10	1
8	O ring segment, Buna *	9907-754-71	1
	O ring segment, EPDM *	9907-754-72	1
	O ring segment, Viton **	9907-754-73	1
9	O ring body, Buna *	9907-719-71	1
	O ring body, EPDM *	9907-719-72	1
	O ring body, Viton **	9907-719-73	1
10	Impeller (704) - Polyester (black)	9907-704-30	1
	Impeller (706) - Polyester (black)	9907-706-40	1
	Impeller (975) - Polyester (black)	9907-975-30	1
	Impeller (975) - Polypropylene (grey)	9907-975-40	1
11	O ring, Buna *	9907-717-71	1
	O ring, EPDM *	9907-717-72	1
	O ring, Viton **	9907-717-73	1
12	Impeller screw, stainless steel.	9907-716-10	1
13	Volute - Flat, for 704 & 706 impeller, polyester pump	9907-702-30	1
	Volute - Ribbed, for 975 impeller, polyester pump	9907-977-30	1
	Volute - Ribbed, for 975 impeller, polypropylene pump	9907-977-60	1
14	Volute screw, self tapping, stainless steel	9907-725-10	2
15	Volute top screw, for 977 volute	9907-997-10	1
	Volute top screw, for 702 volute	9907-771-10	1

Illustration Number	Description	Part Number	Quantity Required
16	Check valve, Buna *	9907-705-71	1
	Check valve, EPDM *	9907-705-72	1
	Check valve, Viton **	9907-705-73	1
17	Pump body, 2 inch - Polyester (black)	9907-1002-30	1
	Pump body, 2 inch BSP - Polyester (black)	9907-784-30	1
	Pump body, 2 inch - Polypropylene (grey)	B9907-1002-40	1
	Pump body, 3 inch - Polyester (black)	9907-755-30	1
	Pump body, 3 inch BSP - Polyester (black)	9907-877-30B	1
18	Drain plug - Polyester (black)	9907-723-30	1
	Drain plug - Polypropylene (grey)	9907-723-40	1
19	O ring, Buna *	9907-1009-71	1
	O ring, EPDM *	9907-1009-72	1
	O ring, Viton **	9907-1009-73	1
20	Filler plug - Polyester (black)	9907-722-30	1
	Filler plug - Polypropylene (grey)	B9907-722-40	1
21	O ring, Buna *	9907-765-71	1
	O ring, EPDM *	9907-765-72	1
	O ring, Viton **	9907-765-73	1
22	Body bolt, Polypropylene pump (black), st/steel.	9907-720-10	10
	Body bolt, Polyester pump (grey), zinc plated.	9907-720	10
23	Body nut, stainless steel.	9907-721-10	10
	Body nut, zinc plated.	9907-721	10
	Impeller shim, 0.007"	9907-788-11	As Req
	Impeller shim, 0.015"	9907-788-12	As Req
	Impeller shim, 0.030"	9907-788-13	As Req

*Polyester pump (black body) EPDM seals as standard, Buna & Viton options available

** Polypropylene pump (grey body) Viton seals as standard, Buna & EPDM options available

Repair kits

Part Number	Description	Included components
9907-KT001	Pedestal conversion kit	n/a
9907-KT014	Complete seal kit - Buna	
9907-KT005	Complete seal kit - EPDM	4 - 5 - 6 - 8 - 9 - 11 - 16 - 19 - 20
9907-KT017	Complete seal kit - Viton	
9907-KT024	Pump repair kit - Buna	
9907-KT025	Pump repair kit - EPDM	4 - 5 - 6 - 7 - 8 - 11 - 12 - 14 - 15 19 - 21 - 3x shims - slinger ring shaft sleeve - shaft gasket
9907-KT026	Pump repair kit - Viton	

GreenTek Solutions Ltd

Rudgate
Walton
Leeds
LS23 7AU
UK

Tel: +44 (0)113 267 7000

Email: info@greentek.uk.com

Website: www.greentek.uk.com



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