

Installation, Operation & Maintenance Instructions

Please leave this instruction booklet with the home owner as it contains important guarantee, maintenance and safety information



Read this manual carefully before commencing installation. This manual covers the following products:

Showermate S2.6 bar Single Pt. No. 46429

Showermate S1.8 bar Twin Pt. No. 46407

Showermate S2.6 bar Twin Pt. No. 46431

FOR POSITIVE HEAD APPLICATIONS ONLY



PRODUCT DESCRIPTION

Electric motor driven single or twin ended peripheral pumps complete with an automatic control system, consisting of flow switches and electronic controls.

APPLICATION

Showermate pumps are designed for single shower pressure boosting applications in vented stored water systems, inlet pressures to the pump and ambient temperatures must not exceed the values given in the technical specifications.



- This pump set must not be used for any other application without the written consent of Stuart Turner Limited and in particular, must not be connected directly to the mains water supply.
- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
- Children should be supervised to ensure that they do not play with the appliance.

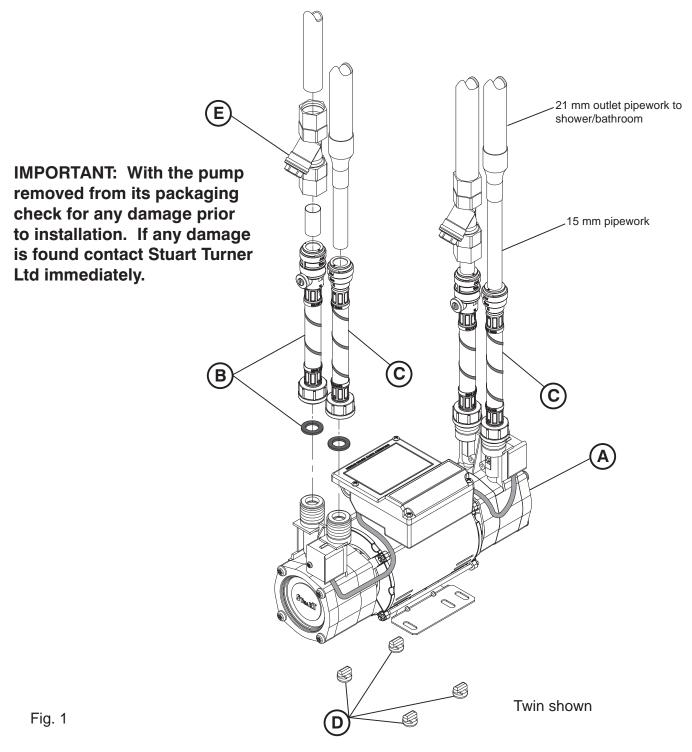
Please read installation details carefully as they are intended to ensure this product provides long, trouble free service. Failure to install the unit in accordance with the installation instructions will lead to invalidation of the warranty.

STORAGE

If this product is not to be installed immediately on receipt, ensure that it is stored in a dry, frost and vibration free location in its original packaging.

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CHECKLIST



Item	Description	Qty	Item	Description	Qty
A	Pump	1	D	Anti-vibration feet	4
B	ISO Hose & washer	2(1)	E	Inline strainers (not supplied)	2
0	Plain Hose & washer	2(1)			

Your product may vary slightly from the picture above.

1 READ BEFORE COMMENCING PUMP INSTALLATION

A. Water storage capacity.

- 1.11 The hot and cold water storage capacity must be sufficient to meet the flow rates required by the pumped equipment and any other water using fittings and appliances, which may be operated simultaneously.
- 1.12 Ensure the pump is primed as described in the priming section before starting, damage to the shaft seal will result otherwise. See Section 5 Commissioning.

B. Water temperature

The water entering the pump must be controlled as follows:

- 1.13 The maximum allowable water temperature is 65 °C.
- 1.14 The minimum allowable water temperature is 4 °C.
- 1.15 **DO NOT** fit a pump if the hot water is heated via a method whereby the water temperature cannot be controlled, such as solar or solid fuel you must consult the pump assist team at Stuart Turner Ltd.

C. Minimum Flow

1.16 For this pump to operate correctly there must be a minimum gravity flow of at least 0.8 l/min through all outlets to be pumped.

D. Pipework - General

- 1.17 **Secure pipework:** Ensure pipework to and from pump is independently supported & clipped to prevent forces being transferred to inlet and outlet branches of pump.
- 1.18 **Flux:** Solder joints must be completed and flux residues removed prior to pump installation (flux damage will void any warranty).
- 1.19 **Pipework design:** Care should be taken in the design of pipework runs to minimize the risk of air locks e.g. use drawn bends rather than 90° bends.



- 1.20 **DO NOT** introduce solder flux to flexible hoses, pumps or pump parts manufactured from plastic.
- 1.21 **DO NOT** allow contact with oil or cellulose based paints, paint thinners or strippers, acid based descalents or aggressive cleaning agents.



- 1.22 **DO NOT** install a non-return valve, or devices which contain non-return valves, in the suction (inlet) pipework to the pump. The pump must be free to vent to the supply tank at all times.
- 1.23 **DO NOT** bend the flexible hoses beyond 30°. They must be installed as straight as possible.
- 1.24 **DO NOT** connect this pump to the mains water supply.

E. Plumbing & Electrical Installation Regulations

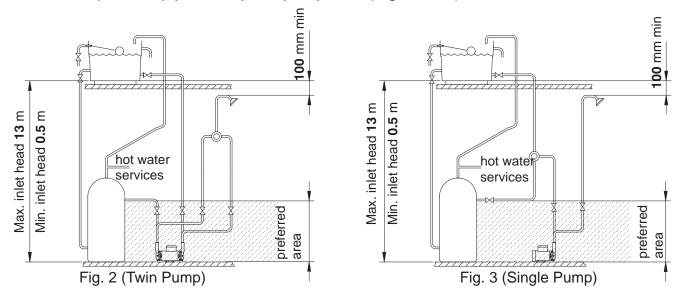
- 1.25 The plumbing installation must comply with "The Water Supply (Water Fittings) Regulations 1999" and "BS 6700" building regulations.
- 1.26 The plumbing installation must be installed by a qualified person.
- 1.27 The electrical installation must be carried out in accordance with the current national electrical regulations.
- 1.28 The electrical installation must be installed by a qualified person.

2 LOCATION - GENERAL

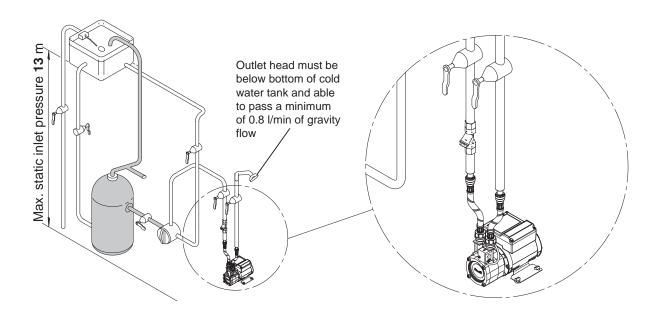


- 2.11 **Access:** For emergencies and maintenance the pump must be easily accessible.
- 2.12 **Protection:** The pump must be located in a dry position, frost free and protected from freezing, particularly when installed in a loft (not recommended).
- 2.13 **Ventilation:** Ensure an adequate air flow to cool the pump. Separate the pump from other appliances that generate heat. An 80 mm (3 ") air gap must be maintained around the pump.
- 2.14 **Safety:** The motor casing can become very hot under normal operating conditions. Care must be taken to ensure it cannot be touched during operation.
- 2.15 **Water retention:** Site the pump in a location where in the unlikely event of a water leak, any spillage is contained or routed to avoid electrics or areas sensitive to water damage.
- 2.16 **Static inlet pressure:** Before deciding where to position the unit, check to ensure the static inlet and outlet heads of water above the pump (Figs. 4 & 5), does not exceed the maximum permitted limits.
- 2.17 **Pump position:** The pump must be positioned on its anti-vibration mounting feet and as close to the water source as possible.
- 2.18 **Ambient temperature:** The pump must be sited in a location where the maximum ambient temperature does not exceed 40 °C.
- 2.19 **Pipework:** For optimum performance pipework **MUST** be 22 mm. Pipework should only reduce to 15 mm when entering terminal fitting.
- 2.20 **Static outlet pressure:** The static outlet head must also be within the maximum requirement (Figs. 4 & 5).
- 2.21 **Noise:** The anti-vibration mounting feet and flexible hoses which are supplied as standard, and a precaution to reduce noise transmission, however care must be taken when mounting the pump that any noise is not amplified through loose panels or pipework. **Do not screw down the pump**.
- 2.22 **Direction of flow:** Ensure the water flow is in the direction of the arrow that is marked on the flow switch reed clamp (vertically upwards).
- 2.23 **Flexible hoses:** Use only Stuart Turner supplied hoses.
- 2.24 **Isolating valves:** Separate isolating valves (non restrictive) must be fitted to allow easy pump service.
- 2.25 **Preferred pump location:** The preferred pump location is at floor level next to the hot water cylinder or a level that is below the secondary tapping that feeds the pump. The pump location is also dependent on limitations of the static inlet and outlet heads of the installation. For guidance on limitations and recommended location, consult the following relevant section for hot or cold water installation.

2.26 Non-preferred pump location: If it is not possible to locate the pump in the preferred area due to site limitations and it is necessary to position the unit in the loft, or in a position above the secondary tapping that feeds the pump, then there is an increased risk of air locks. This risk must be eliminated. The following measure is a suggestion that may overcome the problem: A "U" bend or downward loop in the supply pipe to the pump of 350 mm depth before rising to the pump should ensure the cylinder vents its air up the expansion pipe, not up the pump feed (Figs. 2 & 3).

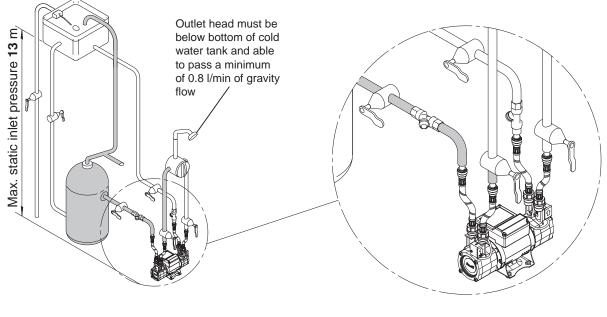


2 LOCATION - SINGLE PUMP



Single Pump System Fig. 4

2 LOCATION - TWIN PUMP



Twin Pump System Fig. 5

Cold water connection:

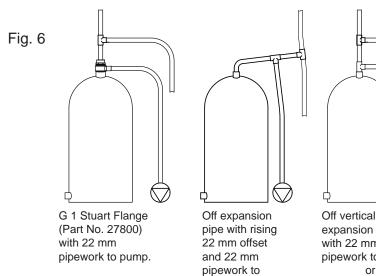
2.27 **The cold water supply:** The supply **must be AIR FREE** and have a **DEDICATED CONNECTION to the tank** which should be via a tank connector, positioned at a slightly lower level (25 mm minimum) than the feed pipe to the hot water cylinder.

Do not connect to the mains.

2.28 **Location:** The pump must, for optimum performance, be sited as close as possible to and never more than 4 metres from the HOT WATER cylinder. The pump should always be sited BELOW the HOT WATER take-off from the cylinder.

Hot water connection:

- 2.29 Hot water cylinder or storage tank: When a hot water cylinder or storage tank is used, ensure the pipework size from the cold water storage to the hot water storage is of adequate size and a minimum of 22 mm.
- 2.30 Hot water supply: The pump must be supplied with a dedicated feed direct from the hot water cylinder or storage tank, ensuring an air free connection to the cylinder, which can be made by one of the methods shown in Fig. 6. We recommend the use of the Stuart top flange Part No 27800.
- 2.31 **Expansion pipe:** When the method of connection is to be made via the expansion pipe, the BASE of the cold water storage tank MUST be at least 1 metre above the connection/take off of the hot water storage cylinder feeding the pump.



pump.

expansion pipe with 22 mm pipework to pump. or

Site installed G 1 tank flange with 22 mm pipework to pump.



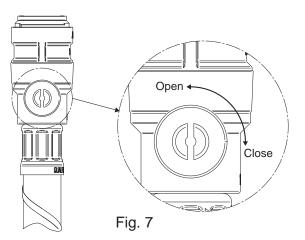
Factory installed G ³⁄₄ secondary tapping with 22 mm pipework to pump. or

Side mounted Techflange with 22 mm pipework to pump.

3 PUMP CONNECTIONS



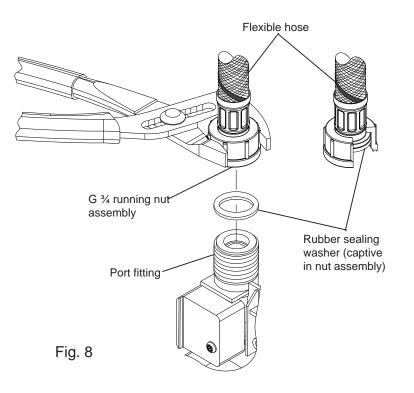
- Do not use stainless steel, chrome or nickel plated pipe with the flexible hose push-in plumbing connections.
- Do not introduce solder flux into the joint or surrounding area as connectors will be attacked and may fail.
 All solder joints should be completed and flux residues removed before final connection to push-in connections, on the flexible hose.
 - Do not allow contact with oil or cellulose based paints, paint thinners or strippers, acid based descalents or aggressive cleaning agents.
 - Never operate pump with inlet and/or outlet isolating valves in the closed position. Damage will occur!
- 3.11 Pumps supplied with flexible inlet and outlet hoses: Flexible pipes are supplied with this pump variant. The pump inlet and outlet ports are threaded G ¾ male. These ports are provided with a flat sealing face suitable for use with an appropriately sized flat faced fitting and fibre or rubber washer. Ensure a water tight seal is achieved when the pump is both stationary and running.
 - a) Hoses incorporating integral isolating valves should be applied to the inlet side of pump to satisfy servicing requirements.
 - b) Standard hoses with no integral isolating valve should be applied to the outlet side of pump.
 - c) Use correct tool for opening and closing integrated isolating valve to prevent damage.



Please note these valves are of quarter turn design, rotate clockwise to close and anti-clockwise to open. Failure to comply to these instructions could lead to valve damage.

d) WARNING - pump must not run with valve closed.

3.12 **Hose to pump:** The pump inlet and outlet ports have fittings which are specifically designed for connection to the G ³/₄ female running nuts on the flexible hoses. The hose end running nut is fitted with a rubber sealing washer which is held captive within the nut assembly. Locate the hose into position and screw the nut fully onto the fitting by hand. Finally nip tight with pliers (4 to 5 Nm) for a water tight seal **(do not overtighten)**.



3.13 Hose to pipework:

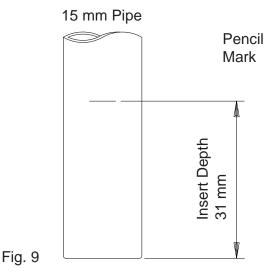
- 1. The hoses are fitted with plastic push-in connectors, which must only be connected with the following:
 - a) 15 mm diameter copper pipe to BS EN 1057 R250 (half hard) Table 3.
 - b) 15 mm plastic pipe to BS 7291 part 1 and part 2 (Table 1), or part 3 (Table 1) plus internal support sleeve*.

* The internal bore of the plastic pipe must be supported against collapse with the pipe manufacturers recommended support sleeve (pipe insert).

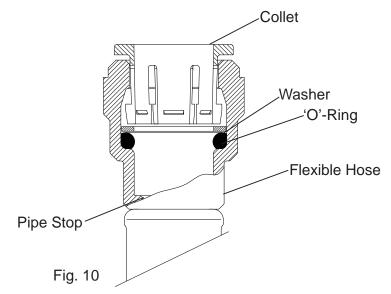
c) Appropriate plumbing fitting that provides a leak tight connection.

Ensure the pipe is free from all score marks and deformities in the area of the insertion depth (Fig. 9) and cut the pipe square, removing all burrs and sharp edges to prevent damage to the sealing 'O'-ring.

2. Prior to inserting pipe into fitting, mark the insert depth on the wall of the pipe with a soft pencil at a distance of 31 mm from the end to be inserted (Fig. 9).

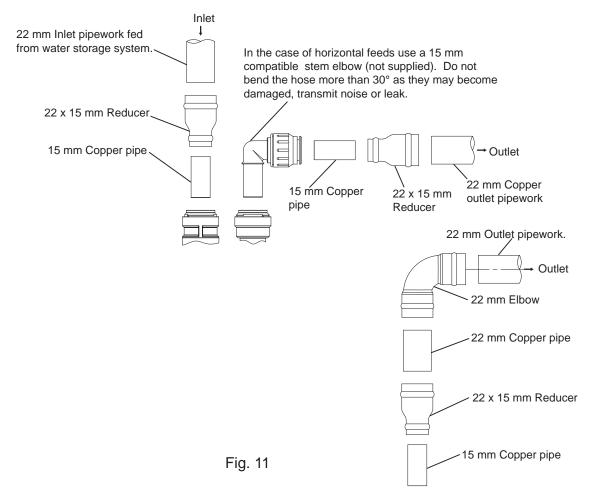


3. Check in the mouth of the fitting that the 'O'-ring, nylon washer and collet are in position as shown in Fig. 10.



- 4. Push the pipe firmly into the fitting, until pencil mark is level with the top of the collet and the pipe stop resistance is felt. Pull on the pipe to check it is secure and correctly fitted
- 5. To release the joint, push pipe firmly into the fitting, hold the collet down and gently remove pipe. If the system has been filled with water care should be taken to isolate the pump and towels used to absorb spilled water.

3.14 Typical Low Level Installation:

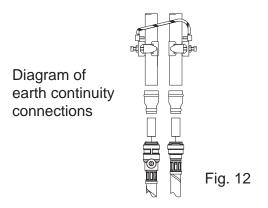


If you have any concern either about using push-in fittings or should the joint leak on final test, isolate the water supplies and contact Pump Assist on 0844 98 000 97.

4 ELECTRICAL INSTALLATION



- 4.11 **Regulations:** The electrical installation must be carried out in accordance with the current national electrical regulations and installed by a qualified person.
- 4.12 Safety: In the interests of electrical safety a 30 mA residual current device (R.C.D. not supplied) should be installed in the supply circuit. This may be part of a consumer unit or a separate unit.
- 4.13 Before starting work on the electrical supply ensure power supply is isolated.
- 4.14 **DO NOT** allow the supply cord to contact hot surfaces, including the motor shell, pump body or pipework. The cord should be safely routed and secured by cable clips.
- 4.15 **Adjacent pipes:** Adjacent suction and delivery pipes should be fitted with earthing clamps to BS 951 and connected with earthing wire size 4 mm² (Fig. 12).



- 4.16 **Earthing:** This appliance must be earthed via the supply cord, which must be correctly connected to the earth point located in the terminal box.
- 4.17 **Pipework:** Copper or metallic pipework must have supplementary earth bonding where the continuity has been broken by flexible hoses or plastic components.
- 4.18 Additional earthing: Certain installations may require additional earthing arrangements such as equipotential bonding. Reference should be made to the relevant regulations concerning this subject to ensure compliance.
- 4.19 **Connections:** The pump must be permanently connected to the fixed wiring of the mains supply using the factory fitted supply cord, via a double pole switched fused spur off the ring main and **NOT** connected to the boiler or the immersion heater circuits.
- 4.20 Wiring Of Connection Unit:



WARNING: This appliance must be earthed.

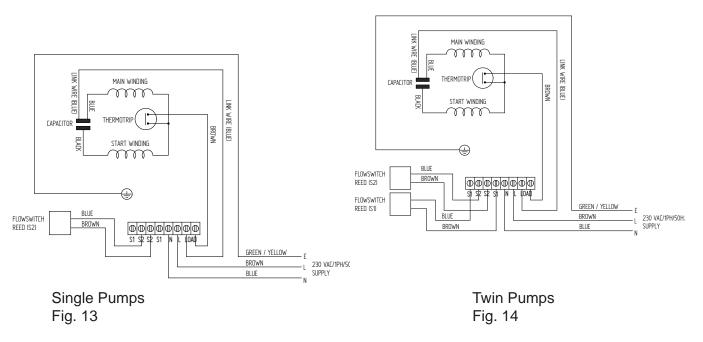
The wires in the mains lead (supply cord) are coloured in accordance with the following code:

Green and Yellow: Earth Blue: Neutral Brown: Live As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your connection unit proceed as follows: The wire which is coloured green and yellow must be connected to the terminal in the connection unit which is marked with the letter E or by the earth symbol: e or coloured green or green and yellow.

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

4.21 Wiring Diagrams:



4.22 **Fuses:** The following fuse size should be used with the appropriate pump.

Model	Fuse Size (AMPS)
All Models	5

4.23 Supply Cord Replacement:



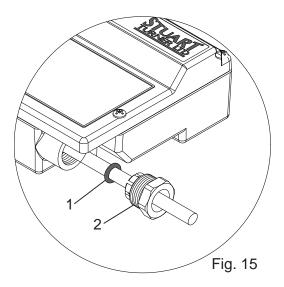
The supply cord and internal wiring within the terminal box are routed and secured to ensure compliance with the electrical standard EN 60335-1. It is essential that prior to any disturbance of this internal wiring, all cable routing and securing details are carefully noted to ensure re-assembly to the same factory pattern is always maintained.

If the supply cord is to be changed or is damaged, it must be replaced with a special cord assembly available from Stuart Turner or one of their approved repairers.

On disassembly note the cord retention and routing system. Re-assemble to the same pattern.

For information on cable connection consult the wiring diagram and cable gland fitting instructions.

4.24 Cable Gland Fitting Instructions:



To enable correct assembly of the cable gland the 'O'-ring (Fig. 15 item 1) must be placed over the cable before the clamping insert (Fig. 15 item 2) can be tightened.

Note: Cable diameter range:- 6.5 mm to 9.5 mm.

4.25 Supply Cord Extension:

5 COMMISSIONING



System Flushing: This pump incorporates push-in connectors and plastic components that must not come into contact with solder flux, acid-based descalents or aggressive cleaning agents. The pipework system should be flushed out prior to the pump being connected to ensure any contaminants/chemical residues and foreign bodies are removed from elsewhere in the system.

5.12 Water Supply: Always ensure that water storage capacity is adequate to meet the demand. Ensure the pump chamber is full of water before starting the pump. Failure to do this could result in seal damage. To ensure dry running does not occur the pump must be primed as described in priming section below. Do not run pump dry.

5.13 **Priming:**



Never operate pump with inlet and/or outlet isolating valves in the closed position. Damage will occur!

The pump must be primed (filled with water) before starting. Turn on water supply from the system service valves, prime and vent the pump by opening the pump inlet and outlet isolating valves to allow pump to fill and vent. In the case of twin pumps, both pump chambers must be independently primed.

5.14 Starting:

- a) Ensure all outlets are closed, turn power supply 'on'.
- b) Open and close all outlets in turn associated with the pump, allowing water to flow from each outlet until all air is purged. As each outlet is opened and closed, the pump will start and stop respectively.
- c) Any tap or control valve within the system when opened and closed will now turn the pump on/off. If this is confirmed to be the case, the system is now operating correctly.
- d) Carefully check pump and pipework for leaks whilst pump running and stationary before leaving the installation unattended.
- 5.15 **For Further Technical Support:** Phone the Stuart Turner Pump Assist team on 0844 98 000 97. Our staff are trained to help and advise you over the phone.

6 MAINTENANCE



6.11 Turn off water supplies to the pump and release pressure by opening water outlets before attempting maintenance.

6.12 **Water scale:** As water is heated scale deposits are released in areas of hard water, scale can cause the mechanical seal to stick if left without use for long periods. The pump must be run for at least 5 minutes every four weeks to "exercise" all working parts. Run on cool water. See Section 7 - Technical Specification for note on water temperature. This particularly applies to guest bathrooms used infrequently.

6.13 Cleaners, Disinfectants and Descalents:



Acid based descalents and aggressive cleaning agents must not come into contact with the pump. The pump must be removed from the system prior to the use of these products. The system should be flushed to remove all chemicals before the pump is re-connected. If in any doubt as to the suitability of the chemical solutions, please contact our Pump Assist helpline.

6.14 No other routine maintenance is required.

7 TECHNICAL SPECIFICATION

Model		S2.6 bar Single	S1.8 bar Twin	S2.6 bar Twin	
	Power supply Volts/phase freqency	230/1/50	230/1/50	230/1/50	
	Enclosure	IPX4	IP22	IP22	
ធ	Type of motor	Induction	Induction	Induction	
Electrical	Power consumption	245 Watts	405 Watts	505 Watts	
Elec	Full load current	1.1 Amps	1.8 Amps	2.2 Amps	
	Rating	Int (S3) 30 mins on/30 mins off @ 9 l/min	Int (S3) 30 mins on/30 mins off @ 9 l/min (Both ends pumping)	Int (S3) 30 mins on/30 mins off @ 9 l/min (Both ends pumping)	
	Max. No Starts per hour	60	60	60	
	Max inlet head	13 metres	13 metres	13 metres	
a	Max head (closed valve)	26 metres	18 metres	26 metres	
Mechanical	Max working pressure*	380 kPa (3.8 bar)	380 kPa (3.8 bar)	380 kPa (3.8 bar)	
ech	Max ambient air temperature	40 °C	40 °C	40 °C	
Σ	Max water temperature**	65 °C	65 °C	65 °C	
	Min water temperature	4 °C	4 °C	4 °C	
	Length	223 mm	304 mm	319 mm	
su	Width	132 mm	132 mm	132 mm	
Pump nensio	Height (excluding flexible hoses)	179 mm	179 mm	179 mm	
Pump Dimensions	Weight (excluding flexible hoses)	4.2 Kg	4.9 Kg	5.8 Kg	
D I	Pump Connections: Inlet	G ¾ Male	G ¾ Male	G ¾ Male	
	Outlet	G ¾ Male	G ¾ Male	G ¾ Male	

Stuart Turner reserve the right to amend the specification in line with its policy of continuous development of its products.

- Note: For information on other voltages/frequencies which are not shown, consult any supplementary instruction sheet supplied, or the rating label attached to the pump.
- *Note: Max working pressure is the maximum pressure that can be applied to the pump internal casing under any installation conditions.
- **Note: In normal circumstances the temperature of stored water should never exceed 65°C. A stored water temperature of 60°C is considered sufficient to meet all normal requirements and will minimize deposition of scale in hard water areas.



Maximum permissible water temperature 65°C.

7.11 **Noise:** The equivalent continuous A-weighted sound pressure level at a distance of 1 metre from the pump does not exceed 70 dB(A).

8 TROUBLE SHOOTING GUIDE

Symptoms	Probable Cause	Recommended Action
Pump will not start.	Insufficient gravity flow.	Check flow rate minimum of 0.8 l/min required on full hot and cold.
	Electrical.	Check power supply. Check fuse (see fuse section). Check circuit breaker is set. Check wiring connections.
	Pump jammed.	If motor 'Buzzes' switch off power and contact Stuart Turner.
	Integral motor thermotrip activated.	Wait for thermotrip to auto-reset and check that duty point and run time is within specification (see technical specification).
Reduced/intermittent flow.	Incorrect or no anti-aeration flange fitted.	Check that the installation complies with installation instructions.
	Incorrect pipe sizes.	Check for correct pipe sizing, see Page 5 - Section 2.19.
	Blocked inlet filters.	Clean inlet filters (see maintenance section).
	Air in system.	Run system on full hot with pump switched off (ie. gravity only) for several minutes. Check that vents are fitted as detailed in instructions.
	Hot water temperature set to high.	Reduce cylinder stat setting to 65 °C max.
	Blocked shower head spray plate.	Clean in accordance with manufacturers instructions.
No hot water.	Air locked water feed.	Vent hot water pump of air. Check cold feed to hot water cylinder. Check water level in cold water tank and that all stopcocks and isolating valves are open.
	Heating source not operating.	Check boiler is switched 'on'. Check cylinder thermostat. Check immersion heater. Check cylinder contains hot water.
	All hot water has been used.	Check tank volume is adequate.
	Faulty thermostatic mixer valve.	Consult makers instructions.
Pump runs on with outlets closed.	Jammed flow switch.	Remove outlet hoses and check that flow switch sits in lowest position. Check float for free movement.
	Damaged reed switch or P.C.B.	If pump continues to run, this indicates a closed circuit in either the flow switch reed or P.C.B. in the terminal box. Contact Stuart Turner.
	Leak in system.	Check tap washers, w/c valve washers, pipe joints.
Pump starts with all outlets closed.	Air in system.	Bleed through system without pump running until hot and cold services run with no air.
Flexible hose leaks	Not fitted correctly.	Check that the hose is pushed firmly onto the pump inlet/ outlet connections and pipework.
	Damaged 'O'-rings.	Check copper pipe ends are cleanly cut and deburred.

8.11 **Environment Protection:** Your appliance contains valuable materials which can be recovered or recycled.

At the end of the products' useful life, please leave it at an appropriate local civic waste collection point.

9 THE SHOWERMATE GUARANTEE

Congratulations on purchasing a Stuart Turner pump.

We are confident this pump will provide many years of trouble free service as all our products are manufactured to the very highest standard.

All Showermate Pumps are guaranteed to be free from defects in materials or workmanship for 1 year from the date of purchase.

EXTEND YOUR PUMP GUARANTEE

Register your pump details on-line now (within 30 days of date of purchase) and the standard 1 year guarantee will be extended **FREE** of charge for a further one year.

www.stuart-turner.co.uk

If you do not have on-line access or would like us to help you register your pump then simply call our '**Pump Assist**' helpline on **0844 98 000 97**.

Please note that to validate your extended warranty we will require the following information:

- 1. Full pump serial number (including last 3 digits) which can be found on the pump rating label and the back page of the installation instructions.
- 2. Your name/address/telephone/e-mail.
- 3. The date of installation.
- 4. Your installer's name/address/telephone/e-mail.

Within the guarantee period we will repair, free of charge, any defects in the pump resulting from faults in material or workmanship, repairing or exchanging the whole unit as we may reasonably decide.

Not covered by this guarantee: Damage arising from improper use, unauthorised repair, normal wear and tear and defects which have a negligible effect on the value or operation of the pump.

Reasonable evidence must be supplied that the product has been purchased within the guarantee term prior to the date of claim (such as proof of purchase or the pump serial number).

This guarantee is in addition to your statutory rights as a consumer. If you are in any doubt as to these rights, please contact your local Trading Standards Department.

In the event of a claim please telephone '**Pump Assist**' or return the pump with the accessories removed e.g pipes etc. If you have any doubt about removing a pump, please consult a professional.

0844 98 000 97

Proof of purchase should accompany the returned unit to avoid delay in investigation and dealing with your claim.

You should obtain appropriate insurance cover for any loss or damage which is not covered by Stuart Turner Ltd in this provision.

Please record here for your records.

SERIAL NO.	DATE PURCHASED
	OLIVIAL INO.

NOTES

NOTES

$\left(\right)$	DECLARATION OF CONFORMITY
	2006/42/EC BS EN ISO 12100-1, BS EN ISO 12100-2, BS EN 809 2006/95/EC BS EN 60335-1, BS EN 60335-2-41 2004/108/EC BS EN 55014-1, BS EN 55014-2, BS EN 55022, BS EN 61000-3-2, BS EN 61000-3-3, BS EN 61000-4-2, BS EN 61000-4-3, BS EN 61000-4-4, BS EN 61000-4-5, BS EN 61000-4-6, BS EN 61000-4-11 1999/519/EC BS EN 62233 2011/65/EU
	IT IS HEREBY CERTIFIED THAT THE STUART ELECTRIC MOTOR DRIVEN PUMP AS SERIAL NUMBER BELOW, COMPLIES WITH THE ESSENTIAL REQUIREMENTS OF THE ABOVE E.E.C. DIRECTIVES.
	()
	RESPONSIBLE PERSON AND MANUFACTURER AND MANUFACTURER
	Signed Business Development Director
	Stuart Turner are an approved company to BS EN ISO 9001:2000



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