

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:

Monsoon U2.0 bar Single

Pt. No. 46498

Monsoon U3.0 bar Single

Pt. No. 46413

Monsoon U4.5 bar Single









PRODUCT DESCRIPTION

Electric motor driven peripheral pump complete with an automatic control system, consisting of flow switch, pressure switch, pressure vessel and electronic control.

APPLICATION

The Universal Single pumps are suitable for positive or negative head installation conditions. The pumps are designed for pressure boosting applications in vented stored, hot or cold, clean water systems, where under gravity, no flow is available. 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 is not intended for use by persons (including children)
 with reduced physical, sensory or mental capabilities, or lack of
 experience and knowledge, unless they have been given supervision
 or instruction concerning use of the appliance by a person responsible
 for their safety.
- 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 heed the warnings 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

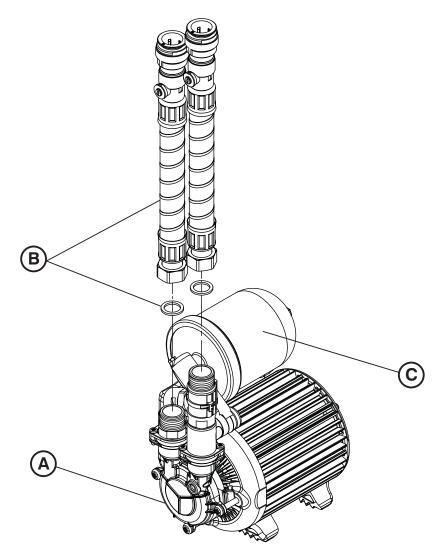
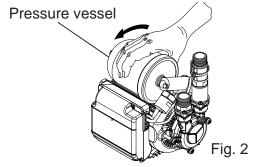


Fig. 1

Item	Description	Qty	Item	Description	Qty
A	Pump	1	(C)	Tank & sealing washer	1
B	Hose & sealing washer	2			

Your product may vary slightly from the picture above.

PRE-INSTALLATION CHECK



The pressure vessel (Fig. 2) is factory fitted to the pump assembly.

To eliminate any risk that the vessel has lost its assembly torque and sealing ability during transit, it must be checked prior to installation and should be hand tight.

Note: Do not overtighten pressure vessel.

Cont ...

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:

- 1.12 The maximum allowable water temperature is 65 °C.
- 1.13 The minimum allowable water temperature is 4 °C.
- 1.14 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. Pipework - General

- 1.15 **Secure pipework:** Ensure pipework to and from pump is independently supported & clipped to prevent forces being transferred to inlet and outlet branches of pump.
- 1.16 **Flux:** Solder joints must be completed and flux residues removed prior to pump installation (flux damage will void any warranty).
- 1.17 **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.



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



- 1.20 **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.
- 1.21 **DO NOT** bend the flexible hoses beyond 30°. They must be installed as straight as possible.
- 1.22 **DO NOT** connect this pump to the mains water supply.

D. Plumbing & Electrical Installation Regulations

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

E. Pressure vessel

1.27 Pressure vessel is charged at the factory see Section 6 - Maintenance for details.

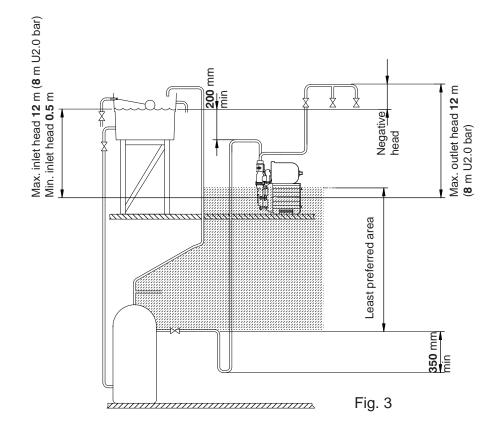
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2 LOCATION - GENERAL



- 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:** If possible 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 (Table 1), 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. The pump has a side mounted terminal box. Ensure the pump is mounted in a position that allows easy access to the box if required.
- 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 (Table 1).
- 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. This will ensure the pump has access to an air free water supply which is important for trouble free operation (Figs. 4 & 5). 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 (Fig. 3).



2 LOCATION - COLD WATER

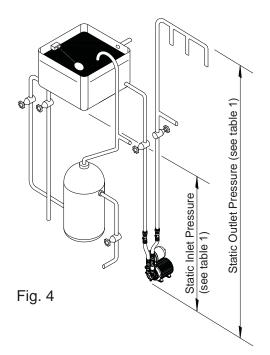
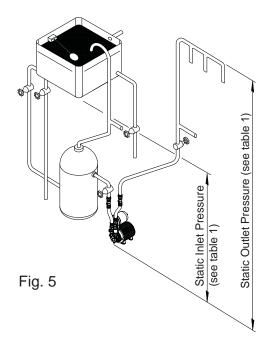


Table 1			
Model	Min. static inlet head (m)	Max. static inlet head (m)	Max. static outlet head (m)
U2.0 bar Single	0.5	8	8
U3.0 bar Single	0.5	12	12
U4.5 bar Single	0.5	12	12

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.**

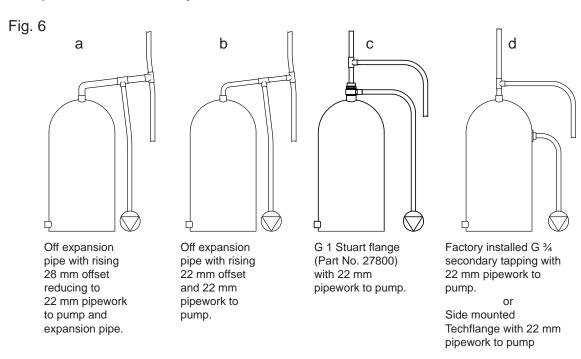
2 LOCATION - HOT WATER



Hot water connection:

(Applicable to U2.0 and U3.0 bar Singles)

- 2.28 **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. The U4.5 bar Single should have pipework of a minimum of 28 mm.
- 2.29 **Hot water supply:** The pump must be supplied with a dedicated feed direct from the hot water cylinder or storage tank. We recommend the use of the Stuart top flange Part No 27800 (for all models except the U4.5 bar Single).
- 2.30 The supply must be air free and connection to the cylinder can be made by one of the methods shown in Fig. 6 (U4.5 bar Single should only use 'a' or 'd').
- 2.31 **Expansion pipe:** When the method of connection is to be made via the expansion pipe, the cold water storage cistern should be at least 1 metre above the top of the hot water cylinder.



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 **Hose to pump:** The pump inlet and outlet ports have factory assembled fittings which are specifically designed for connection to the G¾ female running nuts on the flexible hoses. The hose end 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 a spanner (4/5 Nm) for a water tight seal (**do not overtighten**).

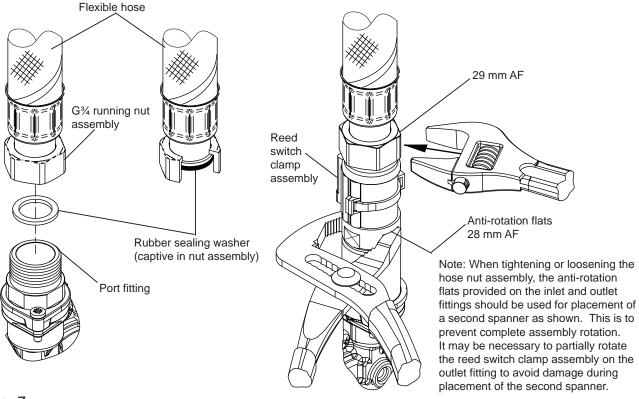


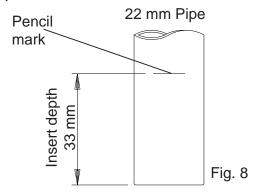
Fig. 7

3.12 Hose to pipework:

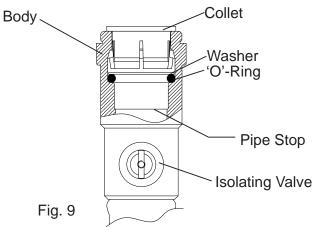
- 1. The hoses are fitted with plastic push-in connectors, which must only be connected with the following:
 - a) 22 mm diameter copper pipe to BS EN 1057 R250 (half hard) Table 3.
 - b) 22 mm plastic pipe to BS 7291 part 1 and part 2 (Table 1), or part 3 (Table 1) plus internal support sleeve*.
 - * The internal bore of the plastic pipe must be supported against collapse with the pipe manufacturers recommended support sleeve (pipe insert).
 - c) Appropriate plumbing fittings that are compatible and will provide a water tight connection.

Ensure the pipe is free from all score marks and deformities in the area of the insertion depth (Fig. 8) 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 insertion depth on the wall of the pipe with a soft pencil at a distance of 33 mm from the end to be inserted.



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



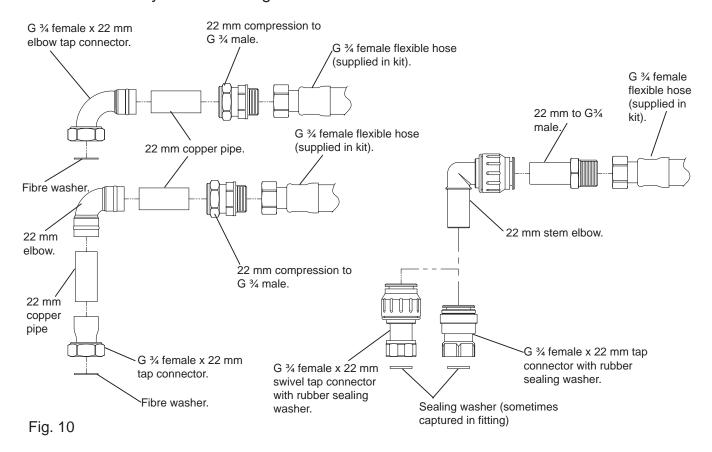
- 4. Push pipe firmly into fitting, until pencil mark is level with the top of the collet and the pipe stop resistance is felt. Pull on pipe to check it is secure and correctly fitted.
- 5. To break the joint, push pipe firmly into fitting, hold collet down and gently remove pipe. If the system has been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

3.13 **Typical Low Level Installation:**

In certain installations it may be necessary to install a 90° bend on the inlet or outlet connections of the pump before the flexible hose to accommodate a low level installation.

Below are some preferred connection options. All connections seal on the pump body using a fibre or rubber sealing washer. Tap connector fittings should be used which must be of an appropriate pressure and temperature rating. It is essential when using any of the fittings shown below, that a correct water tight seal is obtained between the pump body and selected fitting and also the flexible hose and selected fitting. If in doubt contact the fitting manufacturer and confirm compatibility with the connection to be sealed.

Carefully check connections and pipework for leaks whilst pump running and stationary before leaving the installation unattended.

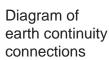


If you have any concern either about using push-in fittings or should the joint leak on final test isolate the water supplies and contact Pump Assist on 0844 98 000 97.

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. 11).



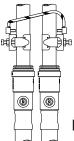


Fig. 11

- 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:

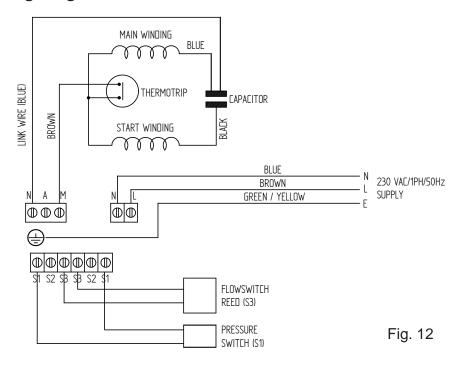
The wire which is coloured green and yellow must be connected to the terminal in the connection unit which is marked with the letter E or by the earth symbol: \bigoplus or coloured green or green and yellow.

Cont ...

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 Diagram:



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:**



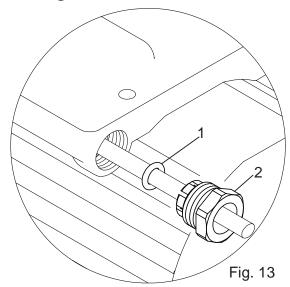
The supply cord and internal wiring within the terminal box are routed and secured to ensure compliance with the electrical standard EN 60335-1. It is essential that prior to any disturbance of this internal wiring, all cable routing and securing details are carefully noted to ensure re-assembly to the 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. 13 item 1) must be placed over the cable before the clamping insert (Fig. 13 item 2) can be tightened.

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

4.25 **Supply Cord Extension:**

5 COMMISSIONING



5.11 **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.

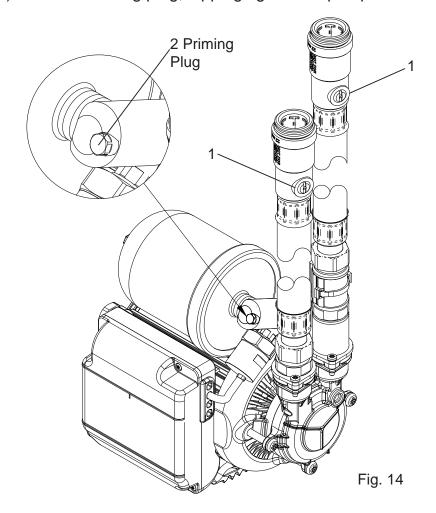
5.13 Priming:



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 the service valves (1), and vent/prime pump head.

- (a) Loosen priming plug (2) and allow an even flow of water this may take a few seconds.
- (b) Re-seal draining plug, nipping tight. The pump is now ready to start.



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5.14 **Starting:**

- a) Ensure all outlets are closed, turn power supply 'on' pump will start, pressurise the system then stop.
- b) Open and close all outlets in turn associated with the pump, (including w/c systems) 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. Note: After closing the outlet there will be a small delay time before the pump stops, which is normal.
- c) Any tap or control valve within the system when opened and closed will now turn the pump on/off. Providing this is 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 **Inlet strainer:** The inlet strainers may require periodical cleaning. The frequency of this operation is dependent upon installation conditions. The strainer is located in the inlet assembly of the pump casing (Fig. 15) and is removed as follows:
 - a) Isolate pump electrically.
 - b) Release all system pressure.
 - c) Isolate hot and cold water supplies via the integral pump isolating valve located in the flexible hoses and release hose nuts connected to the pump (see Section 3 - Pump Connections).
 - d) Remove M4 screws (2 off) from inlet assembly, lift brass inlet fitting (with 'O'-ring) and clamp away from pump casing (Fig. 15).
 - e) Remove strainer with long nose pliers noting location lug position upon removal (Fig. 15) and clean thoroughly.
 - f) Refit strainer taking care to position lug in body inlet port location slot (Fig. 15) and re-assemble pipework. Tighten M4 clamp screws to 1.5 Nm torque.
 - g) After maintenance is completed refer to Section 5 Commissioning for instructions on re-starting pump.

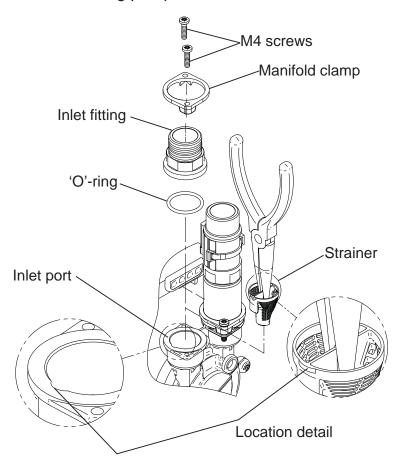


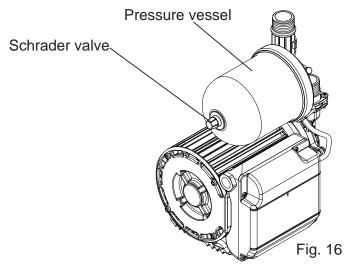
Fig. 15

6.13 No other routine maintenance is required.

Cont ...

- 6.14 Should ever the need arise for the vessel to have its air charge checked or replenished, it should be carried out as follows:
 - a) Isolate pump electrically.
 - b) Isolate hot and cold water supplies via the integral pump isolating valve located in the flexible hoses (see Section 3 Pump Connections).
 - c) Release system water pressure by opening a system outlet (tap).
 - d) Check air charge at Schrader valve (Fig. 16) using a tyre pressure gauge.

Madal	Vessel Pressure		
Model	КрА	bar	psi
U2.0 bar Single	90	0.9	13
U3.0 bar Single	130	1.3	10.5
U4.5 bar Single		1.3	18.5



- e) Replenish air charge if required by injecting air into the vessel via the Schrader valve using a car or bicycle pump, ensuring a system outlet valve (tap) remains open during this procedure to allow the vessel to exhaust any excess water.
- f) Close all system taps, open hot and cold inlet pump isolating valves, turn on electrical power.
- g) After maintenance is completed refer to Section 5 Commissioning for instructions on re-starting pump.
- 6.15 **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.
- 6.16 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.

7 TECHNICAL SPECIFICATION

	Model	U2.0 Single	U3.0 Single	U4.5 Single
	Power supply Volts/phase freqency	230/1/50	230/1/50	230/1/50
	Enclosure	IPX4	IPX4	IPX4
<u> </u>	Type of motor	Induction	Induction	Induction
Electrical	Power consumption	250 Watts	390 Watts	555 Watts
	Full load current	1.1 Amps	1.7 Amps	2.5 Amps
	Rating	Continuous (S1) @ 9 l/min & above	Continuous (S1) @ 9 l/min & above	Continuous (S1) @ 9 l/min & above
	Max. No Starts per hour	60	60	60
	Max inlet head	8 metres	12 metres	12 metres
	Max head (closed valve)	20 metres	32 metres	44 metres
cal	Max working pressure*	600 kPa (6.0 bar)	600 kPa (6.0 bar)	600 kPa (6.0 bar)
Mechanical	Max ambient air temperature	40 °C	40 °C	40 °C
Mec	Pressure vessel air pre-charge	90 kPa (0.9 bar) (13 psi)	130 kPa (1.3 bar) (18.5 psi)	130 kPa (1.3 bar) (18.5 psi)
	Max water temperature**	65 °C	65 °C	65 °C
	Min water temperature	4 °C	4 °C	4 °C
S	Length	200 mm	200 mm	200 mm
Ision	Width	162 mm	162 mm	162 mm
Dimensions	Height (excluding flexible hoses)	243 mm	243 mm	243 mm
	Gross Weight (packed)	7.8 Kg	7.8 Kg	8.4 Kg

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

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- 8.11 **Dry Run Protection:** This pump is fitted with a PCB that will detect the following fault conditions:
 - Dry running caused by water starvation to the pump.

Should the pump run out of water it will stop as part of a "protective logic sequence".

The fault should be rectified before re-starting the pump. Check that there is sufficient water supply to the pump and also ensure that all terminal fitting outlets are closed.

- 8.12 **Protective Logic Sequence:** If water starvation occurs and the power supply to the pump remains uninterrupted, the pump controller will perform the following protective sequence.
 - 1) If the pump detects water starvation, it will stop operation after a 1 minute period.
 - 2) The pump will remain in the off condition for a period of 5 minutes.
 - 3) The pump will then re-start and if the water starvation condition remains present, the pump will then stop operation after a 1 minute period.
 - 4) The pump will remain in the off condition for a period of 5 minutes.
 - 5) The pump will then re-start and if the water starvation condition remains present, the pump will then stop operation after a 1 minute period.
 - 6) The pump will remain in the off condition for a period of 5 minutes.
 - 7) The pump will then re-start and if the water starvation condition remains present, the pump will then stop operation after a 1 minute period.
 - 8) After three consecutive resets are performed the pump will remain in the off condition indefinitely.
 - 9) To restart the pump, the power supply should be first isolated for a period of at least 10 seconds before switching on again.

If the pump fails to operate normally after three attempts to re-start, then please consult Stuart Turner Pump Assist 0844 9800097.

8.13 **Fault Finding:** The PCB is also fitted with a "power on" indicator light. This will remain illuminated when mains power is supplied to the board. The indicator light is located on the PCB within the terminal box.



This operation should only be carried out by a qualified person

To view the light the following procedure must be followed:-

- Isolate the mains electrical power supply from the pump.
- Remove the four screws retaining the terminal box lid (Fig. 17).
- Lift the terminal box lid off.

- **IMPORTANT** Ensure there is no contact with any of the internal parts of the terminal box.
- Briefly reconnect the mains power supply to the pump the indicator light should illuminate if the pump has been correctly wired.
- Isolate the mains electrical power supply from the pump.
- Re fit the terminal box lid ensuring no cables are trapped.
- Re fit the four terminal box lid retaining screws, tighten to 0.8 Nm.

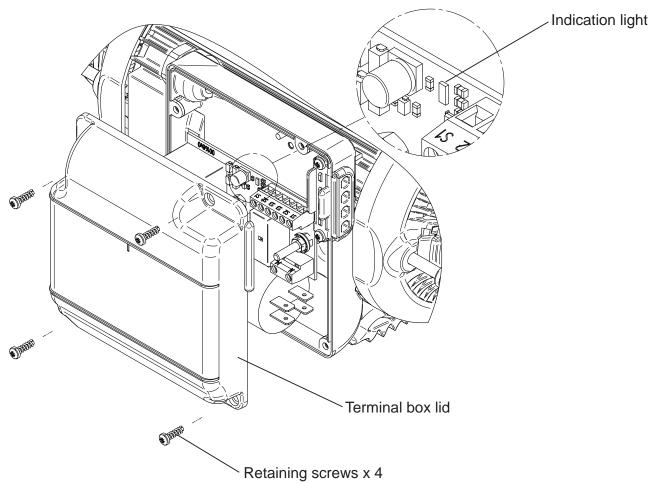
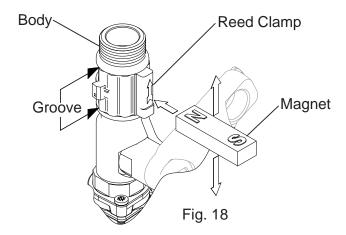


Fig. 17 Wiring removed for clarity

8.14 Flow Switch Circuit Test:

- 1. First confirm visually that the flow switch reed clamps have not been dislodged during handling or installation. The clamps must be fully located within their flow switch body groove as shown.
- 2. To carry out the following test you will need to obtain a magnet, a typical fridge magnet is suitable.
- 3. Ensure the power supply is switched on.
- 4. Position the magnet directly in front of the reed clamp as shown. If pump does not start, then slowly move the magnet up and down to a position that exceeds the extent of the reed clamp. The pump should instantaneously start at some point during this extent of movement. If this does not happen, this indicates a possible fault with the reed switch or the P.C.B which is located within the terminal box. These should be checked electrically. Consult Stuart Turner for further instructions.



8.15 **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 MONSOON 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 Monsoon Pumps are guaranteed to be free from defects in materials or workmanship for 3 years 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 3 year guarantee will be extended **FREE** of charge for a further two years.

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:

- 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 and flexible hoses 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.

TYPE NO.	SERIAL NO.	DATE PURCHASED

NOTES

NOTES



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

STUART TURNER LIMITED HENLEY-ON-THAMES, OXFORDSHIRE RG9 2AD ENGLAND.

Signed...... Business Development Director

Stuart Turner are an approved company to BS EN ISO 9001:2000



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