

Please tape down

Please tape down

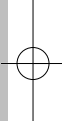
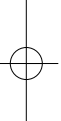
3rd Fold

Affix Stamp

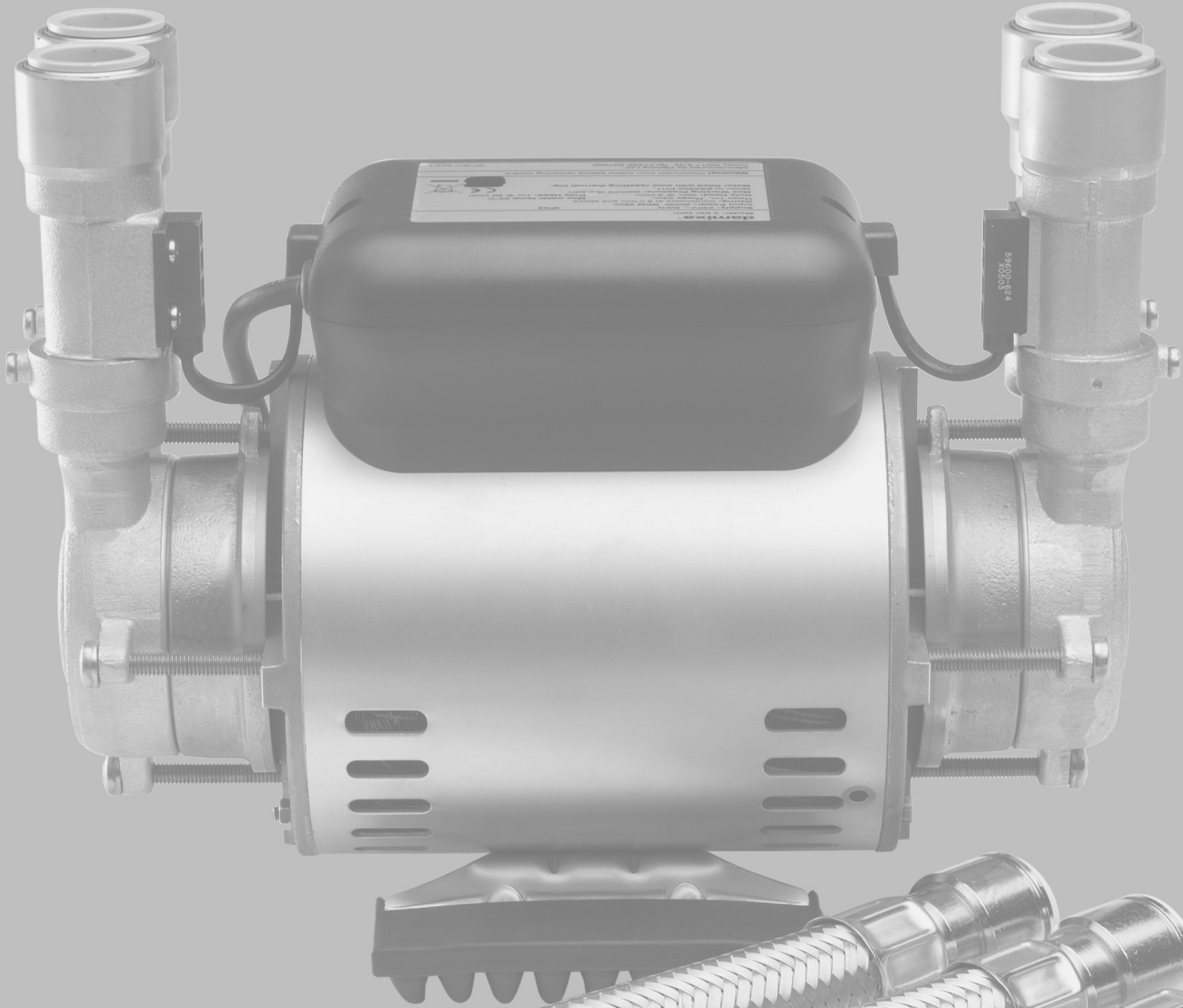
1st Fold

Bristan Limited
Lagrange
Lichfield Road Industrial Estate
Tamworth
Staffordshire
B79 7XD

2nd Fold



BRISTAN
showers taps accessories



Installation Instructions and User Guide

BRISTAN 3 BAR SHOWER BOOSTER PUMP

CUSTOMER CARE HOTLINE

Tel: 01536 207 802

Dear customer, thank you for purchasing this product. In the unlikely event of a fault, or if you require help or advice on the installation and operation of this product, please call our customer care hotline, where a team of highly qualified technical service representatives will be pleased to assist.

IMPORTANT: PLEASE DO NOT UNINSTALL OR RETURN THIS PRODUCT

WHEN YOU HAVE READ THESE INSTRUCTIONS, PLEASE ENSURE YOU LEAVE THEM WITH THE END USER FOR FUTURE REFERENCE.

Product Features

Bristan 3 Bar Shower Booster Pump



IMPORTANT

This product must be installed by a competent person/s.

The installation must comply with the Water Supply and Building Regulations and in accordance with current IEE Wiring Regulations.

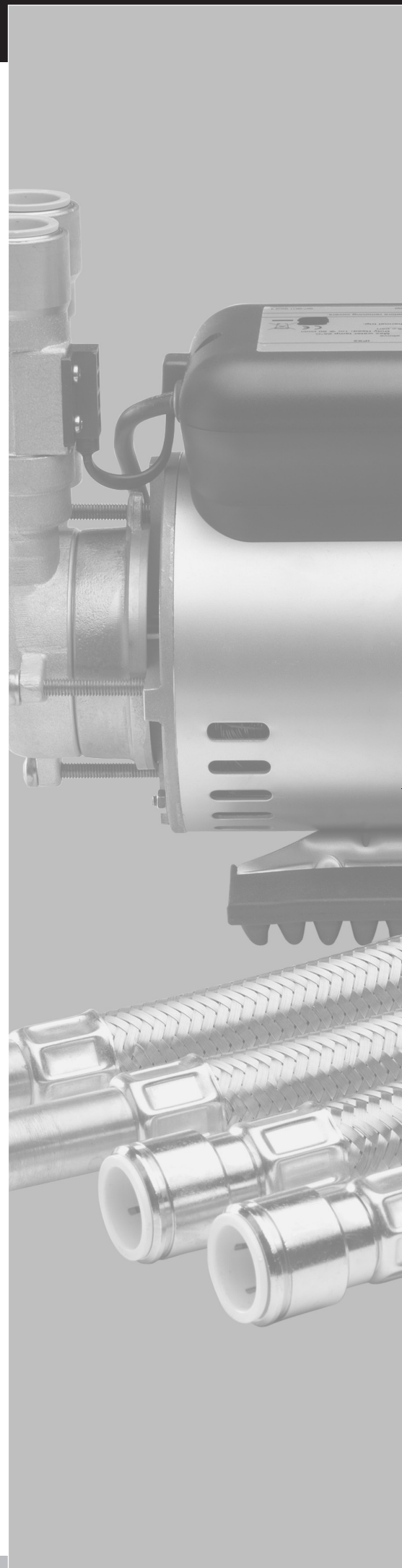
Ensure ALL electrical power supplies are isolated before installation.

SPECIFICATION

Supply Voltage:	230 Vac
Frequency:	50 Hz
Phase:	Single Phase
Power Consumption:	800 W
Fuse Rating:	5 A
Minimum inlet head:	0.1 bar (1m)
Maximum inlet head:	3.4 bar (34m)
Working Pressure:	6.0 bar (600 kPa) Max.
Ambient Temperature:	40°C Max
Installation:	Positive Head Only

IMPORTANT

This unit must be installed by a competent person in accordance with the UK Building Regulations Part P. In particular it should be installed outside the zones as defined in the current IEE Wiring Regulations BS7671 Section 601.



Contents

Installation and Operating Instructions for Bristan Pump

• 3 Bar Shower Booster Pump

Please read this booklet carefully and ensure a competent person undertakes the installation.

Note: Following the headings in sequence will guide you through the installation and operation of your Bristan 3 Bar Shower Booster Pump.

	PAGES
PLANNING YOUR INSTALLATION	3 - 4
• Plumbing	
• Electrics	
FITTING YOUR PUMP	5
COMMISSIONING & TROUBLE SHOOTING	6 - 7
SPARE PART LISTING	8
GUARANTEE/SERVICE POLICY	9 - 10

Refer to back cover for Guarantee, Customer Service and Replacement Parts Policy. In the event of any query regarding installation please contact the Masco Care Customer Service Department

Tel: 01536 207 802 • Fax: 01536 207 801

Email: enquire@bristan.com

In line with our policy of continual product development the specifications may be varied and product design altered. We reserve the right to depart from the details given in this manual without prior notice.

Planning your Installation

Plumbing

For the correct operation of the pump both hot and cold water supplies to the pump must be gravity fed at equal pressures via dedicated feeds from a cold-water storage tank and hot water storage cylinder (See Fig.1)

We recommend a minimum 115 litre cold-water storage tank, but please ensure compliance with all water bylaws.

Under no circumstances must the pump be connected to the mains cold water supply.

The pump must be positioned in a dry area, i.e. in a linen/airing cupboard, as close to the base of the cylinder as possible ideally pushing water not pulling. The pump will work most efficiently when fitted close to the hot water cylinder.

The pump must not be installed in the loft.

Before proceeding with the installation of this unit, it is essential to check that all pipe work is a minimum of 230mm below the water level in the cold water storage tank (See Fig.1).

Please ensure that the pump and valve are not positioned in areas subjected to freezing conditions.

This pump is a high performance unit. Ensure that your ball valve is working correctly to allow your system to refill.

The pump can be connected to a combination cylinder system providing it has a cold-water storage capacity of 115 litres (actual).

The temperature of your stored water must not exceed 65°C. A stored water temperature of 60°C is considered sufficient to meet all normal requirements in line with the British Standard 6700 and will minimise lime scale build-up in hard water areas.

UNDER NO CIRCUMSTANCES MUST THE PUMP BE CONNECTED TO THE MAINS WATER SUPPLY.

Electrics

IMPORTANT:

This appliance must be earthed. This unit should be installed with a means of full disconnection which must be incorporated in the fixed wiring and in accordance with the current IEE Wiring Regulations. If in doubt, consult a qualified electrician.

The pump must be connected to a 230 Vac supply, fused at 5A, via a double pole isolator with a contact separation of at least 3mm in all poles.

It is recommended that your installation is protected by a residual current device (RCD) with a trip rating of no more than 30mA

Ensure ALL electrical power supplies are isolated before installation.

CONNECTIONS:

All pumps are supplied with a fitted mains supply cable.

Ensure wiring is connected as follows:

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

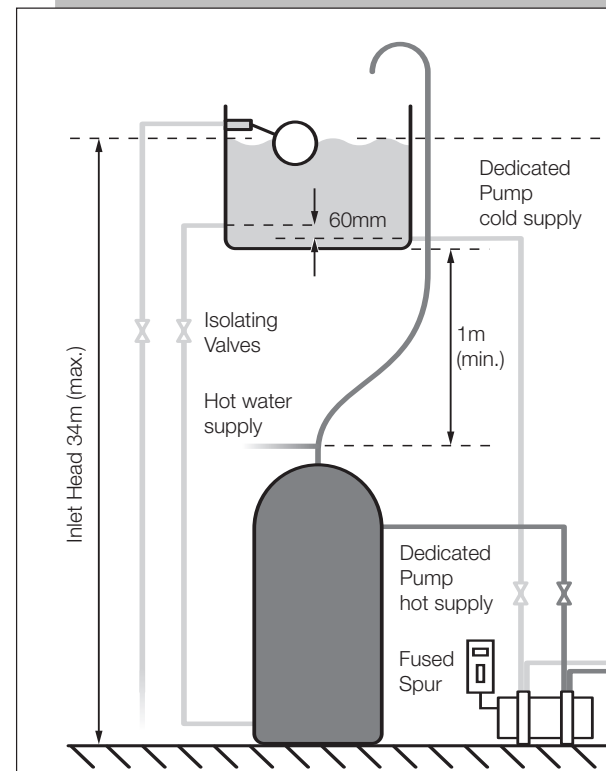
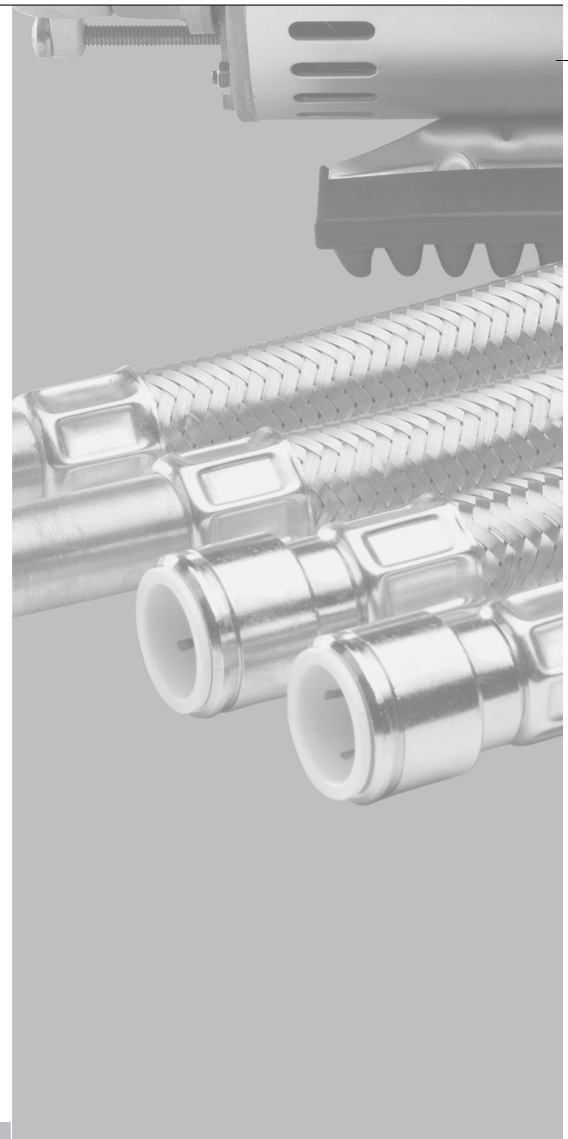


Fig 1 – Typical Installation



Planning your Installation

Electrics (continued)

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

The wire that is coloured green/yellow must be connected to the terminal that is marked with the letter E, or the earth symbol \oplus .

If the mains supply cable fitted to the pump is damaged, it must be replaced by the manufacturers special assembly (Bristan part no. SP-097-0013) as indicated in the 'Spare Parts Listing' and 'Guarantee/Service Policy' sections of this document.

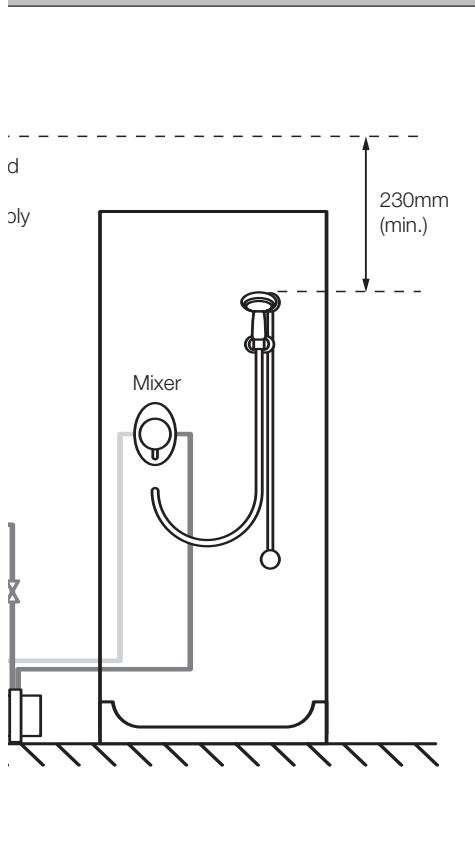
IMPORTANT: When replacing mains supply cable ensure the control box cover is replaced without damaging the new cable. The cable grommet should be used where the cable enters the box.

Pump

In addition to the recommendations on "Planning your Installation" please also take note of the following.

- The pump must be installed with reference to Fig.1
- All plumbing must be completed before any electrical connections are undertaken.
- Do not install with non-return valves.
- Both hot and cold supplies should be air free to allow correct operation of the pump.
- The pump unit should be in a well ventilated position and not covered with towels, clothes, etc., and accessible for future servicing/maintenance.
- Position the pump horizontally on its feet on a solid and even surface ensuring un-interrupted air flow around unit.
- Do not screw or secure the pump to the floor.
- When connecting pipe work avoid using elbows. Swept or formed bends will ensure optimum performance.
- All pipe work to and from the pump must be 22mm.
- Non-restrictive isolating valves (accessible for ease of maintenance) on hot and cold supplies to the pump, must be fitted.
- Do not solder within 300mm of the pump, or expose parts to excessive heat.
- Do not use jointing compounds.
- Do not run pump dry.

WARNING – THE SHOWER BOOSTER PUMP AND ALL CONNECTING PIPEWORK SHOULD BE EARTH BONDED.



Fitting your Shower Booster Pump

IMPORTANT



This product must be installed by a competent person/s.

The installation must comply with the Water Supply and Building Regulations and in accordance with current IEE Wiring Regulations.

- Isolate appropriate water and electrical supplies.
- To drain the system open the hot and cold water taps.
- Make a direct connection from the hot water cylinder with an Essex Flange with dip tube. Surrey Flanges are not recommended (See Fig.2).
- If the above connection method is not possible, make your connection into the hot water supply pipe from the cylinder, ensuring that it is the first draw-off (minimum 200mm below the expansion pipe tee). A minimum of 1 metre between the base of the cold-water storage tank and the expansion tee must be achieved. (See Fig 1).
- The cold water supply should be taken directly from the cold storage tank and must be positioned 60mm below the cold feed connection to the hot water cylinder. (See Fig 1).
- The connection should not be directly beneath the ball valve as aeration of the water going to the shower could cause damage.
- Position the pump horizontally on a solid base. Do not screw to the floor.
- Either end can be used for hot or cold.
- **IMPORTANT:** The integral fittings on the hose are of the push fit type. All burrs and rough edges must be removed from the end of the pipe. In the case of a chrome-plated tube, the first 30mm of plating should be removed. Check that flexible hose unions are free from scores, deformities and dirt before assembly. Should it be necessary to remove the pipe after installation, push down and hold the collet while withdrawing the pipe. (See Fig.3)

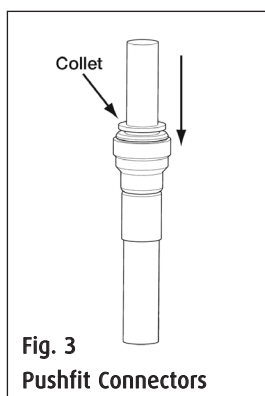


Fig. 3
Pushfit Connectors

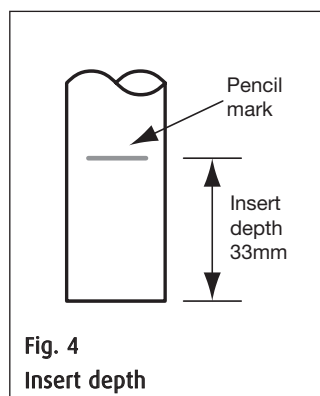


Fig. 4
Insert depth

- Line up pipe work and fit hoses to pump before connecting to pipes. Position pipe work accurately so that the pump is not subject to mechanical strain, such as supporting weight of pipes. E.g. flexible hoses should be kept vertical and must not be bent or kinked as this will cause flow restriction.
- Ensure the Umbrella Strainers are fitted to the inlets to the pump. These should be fitted to prevent damage to the pump from abrasive debris in the water supply.
- Make sure each hose connection is fully inserted into the inlet and outlet ports of the pump. When connecting to the pump hoses, make sure connecting pipe is fully inserted to a minimum depth of 33mm (1¹/₄"). Failure to fully insert connections will cause leaks (See Fig.4)

NOTE: DO NOT FIT FUSE OR SWITCH ON MAINS ELECTRICAL SUPPLY AT THIS POINT.

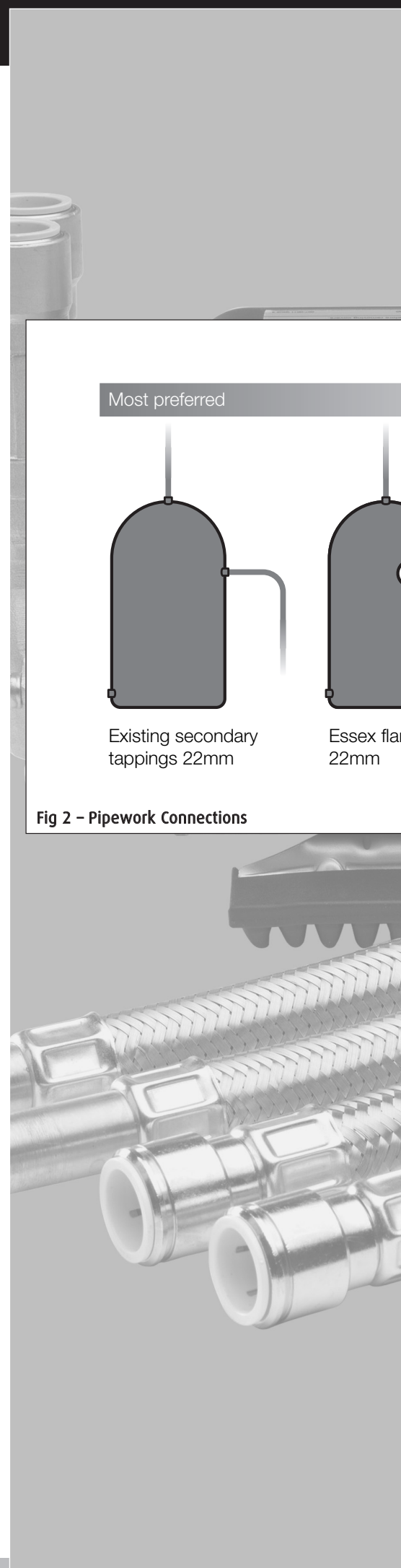


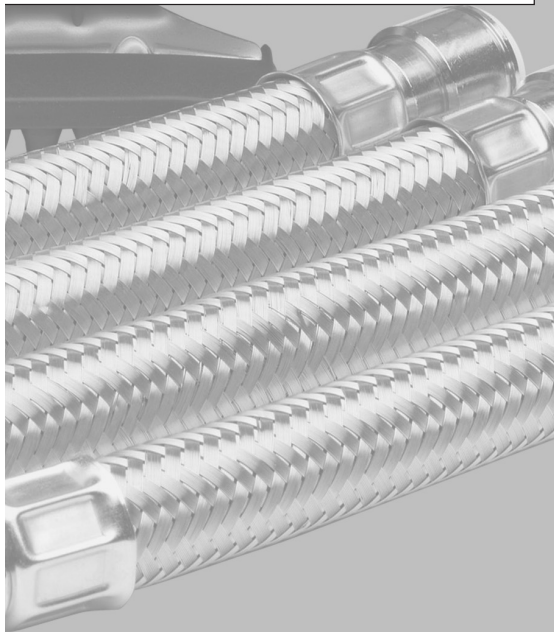
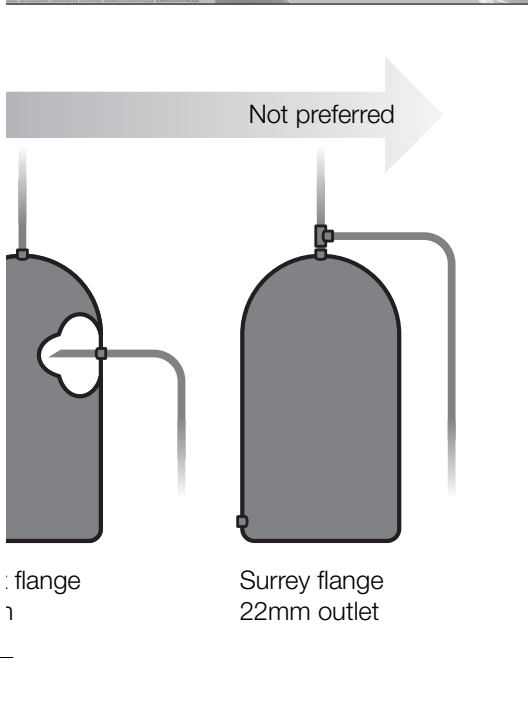
Fig 2 - Pipework Connections

Commissioning

Positive Head Installation

This pump utilises quality ceramic water seals. To prevent damage it is essential that water is allowed to flow through both pump chambers to purge out any air pockets prior to the unit being switched on.

- Turn on the water supplies and allow system to fill.
- Turn on water outlet e.g. mixer valve (without handset) and allow water to flow freely through the hoses for approximately 2-3 minutes to ensure no foreign matter is left in the pipes and system is purged of air.
- Check for leaks and correct as necessary.
- At this point we recommend disconnecting the inlet flexible couplings to the pump and flush out any debris from the integral strainers. This will ensure the best performance from the shower. See Fig. 5. **NOTE: Remember to isolate the water supply before removing the hoses to check the filters.**
- Turn on water supplies, if required.
- Switch on electricity supply to pump.
- Turn on water outlet e.g. mixer valve (the pump should start) and allow to operate at full flow for a further 2-3 minutes until all remaining air is purged from the system.
- Check for leaks and correct as necessary.
- The commissioning procedure is now complete.
- Demonstrate to customer.

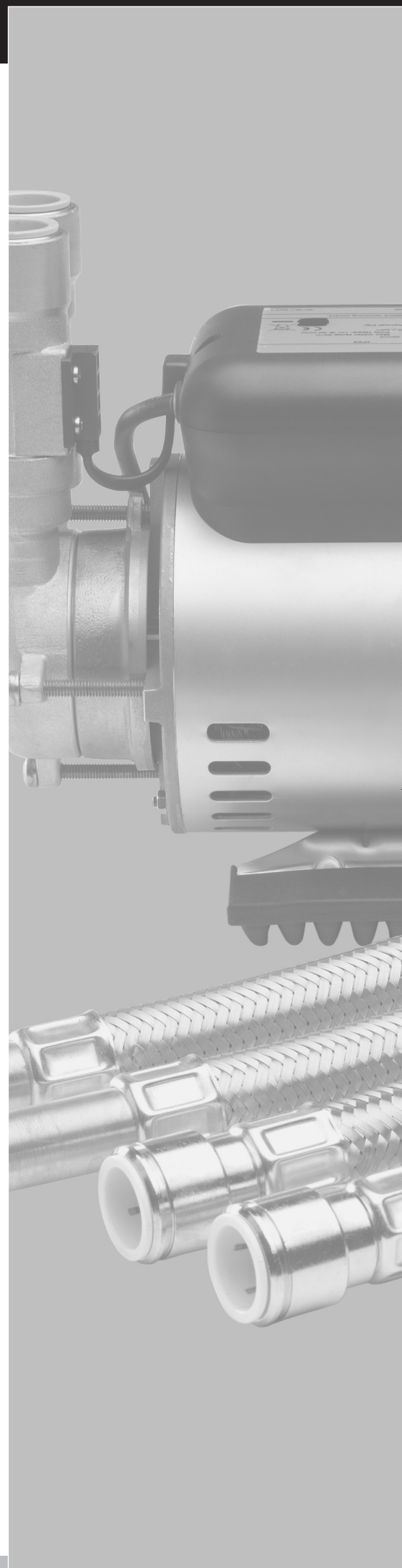


Troubleshooting

Troubleshooting

SYMPTOM	LIKELY CAUSE	ACTION/REMEDY
Pump not operating	Electricity is not switched on	Check all fuses and electricity supply
Pump does <u>not</u> operate when shower valve is turned on	Installation is Negative Head Debris in pipe work/inlet strainer	Is handset and all pipe work 230mm below the level of water in the cold water storage tank? Refer to Fig. 1 Remove and clean – refer to Fig. 5
No water flow	Isolating valves turned off Installation is Negative Head Airlock	Turn on isolating valves. Check cold water storage tank has not run dry Is handset and all pipe work 230mm below the level of water in the cold water storage tank? Refer to Fig. 1 Purge system
Outlet runs cold	No hot water Airlock Heating source switched off	Check there is sufficient hot water in the cylinder Purge system Switch heating source on
Motor stops after prolonged use	Motor may have overheated	Switch off mains and allow pump to cool and auto-reset. Check for adequate ventilation around pump, i.e. pump should be mounted on a hard surface with <u>no</u> obstructions
Poor performance	Possible blockage Kinked or crushed flexible hose	Remove the inlet adaptor couplings to the pump and flush out any debris from the integral strainers, remembering to isolate the water supplies Remove kink/obstruction. If flexible hoses are damaged replace as necessary

If system will still not run, contact Masco Care Customer Service Department: 01536 207 802.



Spares Parts Listings

Spares Parts Listings

Ref:	Description	Part No.	Qty Supplied
1	Flexible Hose Single	SP-097-0023	1 (not shown)
2	Inlet Strainer	SP-097-0017	1
3	Float Assembly	SP-097-1001	1
4	O Ring Kit	SP-097-1000	1
5	Reed Switch Assembly	SP-097-0014	1
6	Capacitor	SP-097-0004b	1
7	Printed Circuit Board	SP-097-0015	1
8	Mains Supply Cable	SP-097-0013	1 (earth ring shown)
9	22mm Push fit seal & collet kit	SP-320-0232	1
10	Ceramic seal kit incl. washer & circlip	SP-097-0016	1
11	Rubber Foot	SP-097-0030	1
12	304 Woodruff key	SP-097-0004a	1
13	PCB enclosure	SP-097-0009	1
14	PCB Cover	SP-097-0016	1

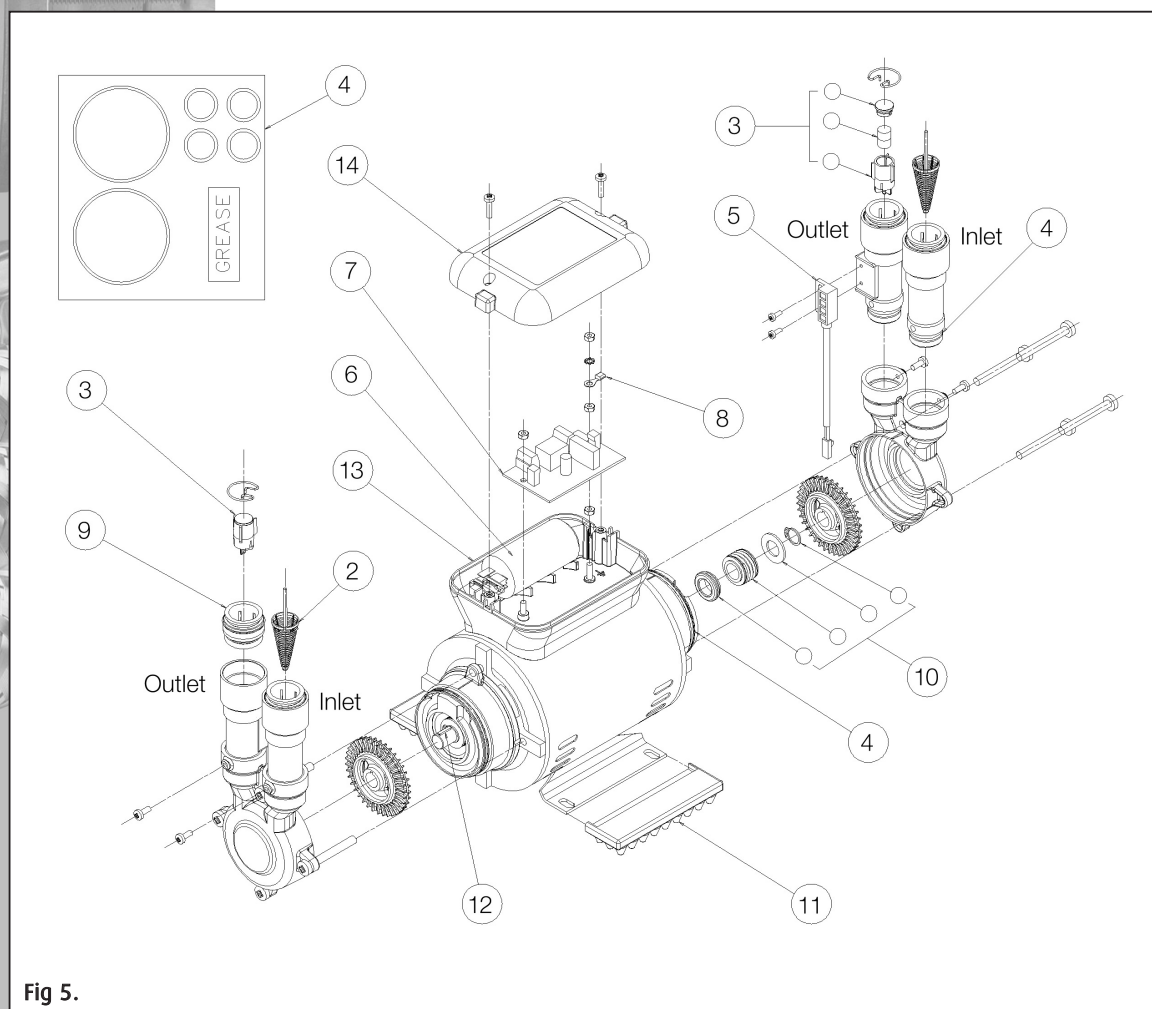


Fig 5.

Guarantee/Service Policy

Guarantee

Thank you for purchasing a Bristan product, which has been designed, manufactured and tested, in the U.K., to the highest standards, by Damixa Ltd.

Guarantee. 2 Years – parts and labour

This guarantee applies to products purchased within the United Kingdom or Republic of Ireland, but does not apply to products used commercially.

This is provided that:

1. The guarantee registration card is completed and returned within ten days complete with a copy of proof of purchase.
2. The product is installed and operated in accordance with our instructions and has not been misused or damaged.

This in no way affects your statutory rights as a consumer.

The information on the Guarantee card helps Bristan to process any claims and contact you about your product and its maintenance if required. The registration of your personal details is purely for Bristan use, and the other information helps us to make products for the future.

Should a complaint arise, products are guaranteed against faulty workmanship and materials for a period of 24 months from the date of purchase, when in domestic use. For your guarantee to be valid, your shower booster pump must be installed by a competent person, in accordance with the instruction manual. Failure to do so will result in a service call charge being levied.

Home visits are made between 8.30am and 5.00pm Monday to Friday. Visits may be available outside these hours at our discretion, in which case a premium will be charged.

Bristan will repair or replace (at our option), free of charge, any faulty components during the guarantee period, provided it has been maintained and operated in accordance with our instructions, and has not been misused or damaged.

Modification or repair of this product by person(s) not authorised by Bristan will invalidate this guarantee.

This guarantee does not affect your statutory rights.

Service Policy – Replacement Parts Policy

IMPORTANT:

In the event of product or component malfunction, DO NOT tamper with or remove the product from site. Telephone Masco Care Customer Service Department on 01536 207 802 and be prepared with the date of purchase, model number, product barcode number and a description of the complaint.

Our service staff are fully qualified to advise on correct installation procedures and will be able to diagnose whether the fault will require a replacement part or a visit from a Masco Care engineer.

If required, a service call will be booked, and either yourself or an appointed representative (who should be a person of 18 years or over) must be present during the visit.

All site visits to product within the guarantee period will be carried out free of any labour charges, (parts may be chargeable depending on the guarantee particulars,) provided the conditions of the guarantee have been met. Suitable evidence of guarantee status will be required prior to the visit, usually in the form of a copy of the purchase receipt.

All site visits to product out of guarantee will be subject to a charge for parts and labour, which is payable by you or your appointed representative prior to the visit being booked. A charge will also be made for cancelled appointments, unless advised to Masco Care at least 24 hours before the agreed date and time.

We reserve the right not to undertake work where a payment cannot be made prior to booking the visit. Payment for an out of guarantee service visit includes the full cost of the visit, and a parts deposit which is fully refundable if no parts are required. The engineer will advise which parts are required at the time of the visit.

The manufacturer will hold stocks of parts for the service life of the product.

In the event of a part becoming unavailable or obsolete the manufacturer reserves the right to supply a substitute of equal quality.

The following payment methods can be used for booking service visits: Credit Card (MasterCard, Visa, Delta, AMEX), Debit Card or Cheque (by post – cleared funds).

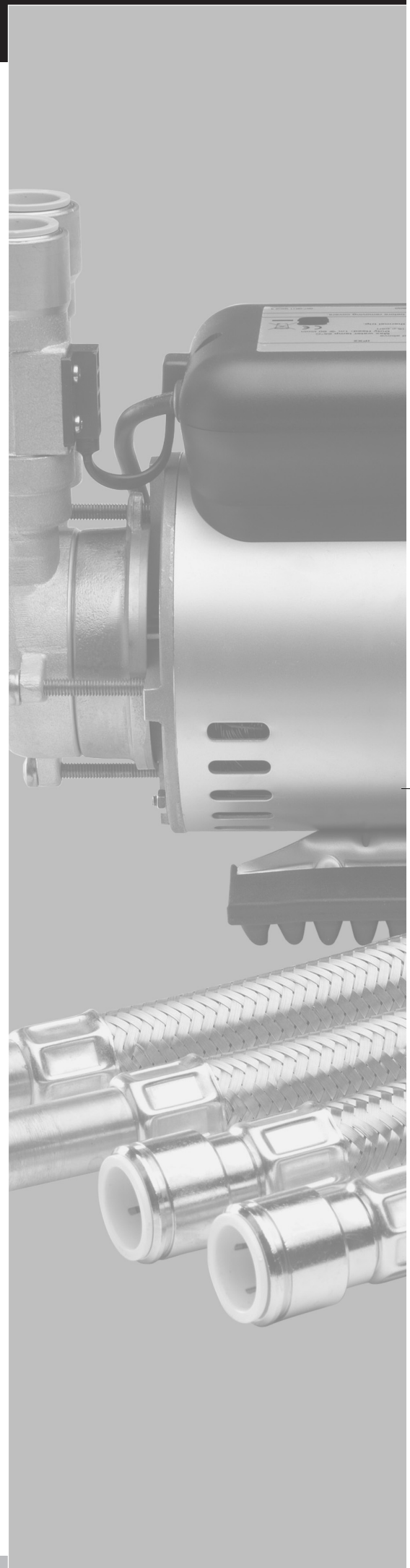
REPLACEMENT PARTS:

Tel: 01536 409 222 • Fax: 01536 409 201 • Email: enquire@bristan.com

CUSTOMER SERVICE HOTLINE:

Tel: 01536 207 802 • Fax: 01536 207 801 • Email: enquire@bristan.com

Part No. 404-0210 Issue 05/06



Guarantee

BRISTAN
showers taps accessories

GUARANTEE CARD

Please post immediately enclosing a copy of proof of purchase

Bristan 3 Bar Shower Booster Pump

Proof of purchase enclosed

YES NO

NAME: _____

ADDRESS: _____

POSTCODE: _____

DATE OF PURCHASE: _____

PRODUCT PURCHASED FROM: _____

TOWN: _____

Bristan's philosophy is to offer outstanding products with quality and integrity, please help us by taking the time to answer the following questions. Thank you.

MARKETING INFORMATION

1. Please state your profession: Plumber Builder Electrician Customer

Other (please specify) _____

2. Please state the reason for purchasing a pump: New Build Replacement Renovation

Other (please specify) _____

3. If the product is a replacement pump, please state the type and make of the pump it is replacing: _____

4. What influenced you to purchase the 3 Bar Shower Booster Pump? Advertisement

Trade Press Recommendation from Stockist Recommendation from Installer

Other (please specify) _____

5. Please state your main reason for purchasing the 3 Bar Shower Booster Pump:

Bristan Product Knowledge Product Features Product Styling Price

Other (please specify) _____

Please tick here if you do not require any further information or product updates from Bristan

POST BACK

FOLD AND TAPE AS INSTRUCTED OVERLEAF