2nd YEAR WARRANTY –
SUPERGEN 58TX
(PARTS ONLY)

Please return this form, fully completed, to the address below.
Proof of purchase may be needed in the event of a claim.

Name
Address

Post Code Tel: email:

SERIAL NUMBER . . . . . Date Purchased . . . . . .
(MUST BE COMPLETED)

Date Installed . . . . . .

Supplied By
.....

INSTALLATION DETAILS **(tick, complete or circle YES or NO)**
This part should be completed with the help of your Installer.
(All questions MUST be completed)

Cylinder Fitting -

Essex Flange ___ Warix Flange ___ or Surrey Flange ___

Cylinder Thermostat Setting ____ °C **(MUST NOT BE ABOVE 50°C)**

If there is not a cylinder thermostat fitted is a Temperature Regulator fitted **YES / NO**
(if not your warranty is invalid)

If both a Thermostat and Regulator is fitted what is -

Thermostat setting ____ °C & Regulator setting ____ **Thermostat must be 10°C higher than the Regulator setting)**

Pipework size suction and discharge **15mm/22mm** Suction totally dedicated, NO draw-offs **YES / NO**

Are Flexible Hoses straight **YES / NO** **NOTE: FLEXIBLES MUST BE KEPT STRAIGHT**

Location of pump is 'floor by cylinder' **YES / NO** or other . . . . . .
.....

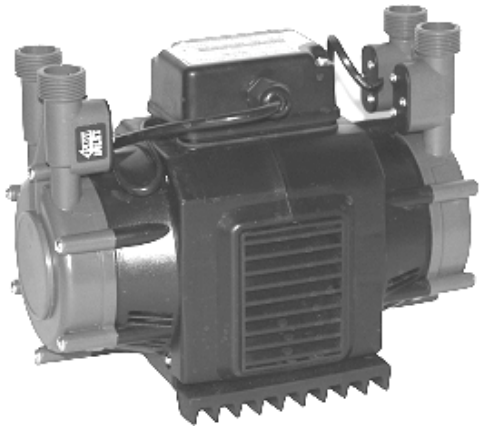
Office Use Only. System approved _____ If not approved customer advised _____

Pump World Ltd. Unit 12 Woodside Road, South Marston Park, Swindon, SN3 4WA
Tel: 01793 820142

SUPERGEN
58TX
TWIN SHOWER PUMP

THIS IS A HIGH PERFORMANCE HIGH SPECIFICATION PUMP AND HAS PRECISE INSTALLATION REQUIREMENTS.

NOTE ~ FAULTY INSTALLATION MAY INVALIDATE WARRANTY (PROOF OF PURCHASE MAY BE REQUIRED IN THE EVENT OF A CLAIM)



Help Line: 01793 820142
E'Mail: enquiries@pumpworld.co.uk
Website: www.pumpworld.co.uk

INSTALLATION INSTRUCTIONS
SUPERGEN 58TX

IMPORTANT: FAULTY INSTALLATION MAY INVALIDATE WARRANTY.
Proof of purchase may be needed in the event of a claim.

WARRANTY

One year from date of purchase (Parts & Labour). See also back page.
Note: any labour costs other than Smart Showers will only be covered by prior agreement.

CONTENTS

(1) Pump (2) 4 x Flexible Hoses (3) 2 x Filters, use on inlets (4) Installation Instructions

PUMP PERFORMANCE / TANK SIZES

	Motor Kw	Dimensions mm L W H	Flow Rate LPM 10 20 30	**Minimum** Tank Sizes HOT	COLD
			Pressure in Metres		
58TX	.39	250 140 190	14 11 7	136L(30G)	225L(50G)

INSTALLATION (SEE OVER PAGE for further details.)
The IMPORTANT points to note are :-

CYLINDER FITTING - Either an Essex Flange, Warix Flange,22mm Surrey Flange or 1st take-off from vent.

HOT WATER TEMPERATURE - **CYLINDER THERMOSTAT SET AT MAXIMUM 50^{0}C & BOILER CONTROL between 2-3 for gas (below midway)**

Maximum 60^{0}C at the pump.
To ensure this the thermostat setting on one of the above size cylinders should be 50^{0}C when positioned approx. 1/3rd up from the bottom. For larger tanks this will need to be reviewed.
If a thermostat is not fitted a Temperature Regulator MUST be used.
If both a thermostat and regulator are used the thermostat must be set at a MINIMUM 10^{0}C **hotter** than the blended temperature e.g. 60^{0}C on cylinder thermostat.

PIPEWORK – **15mm**
Both hot & cold supplies MUST be totally dedicated i.e. NO DRAW OFF's before the pump.

PUMP LOCATION - On the floor adjacent to the cylinder.
For other locations e.g. loft, please contact the Help Line for further guidance.

WATER STORAGE VOLUME - Above tank sizes should be used for up to two bathrooms.

ALSO :

INLET PRESSURE - Maximum 1 Bar. Pressure Regulators must be used if higher than 1 bar. **DO NOT CONNECT DIRECT TO MAINS SUPPLY.**
PUMP - At installation pump must be FLOODED before starting.
FLEXIBLES - **HAND TIGHT ONLY & DO NOT BEND.**
VENTILATION - Pump must be adequately ventilated.
ISOLATING VALVES - 4 x Isolating Valves should be fitted before and after the pump to facilitate maintenance.
ELECTRICAL - All wiring complies with British Standards (**5 Amp** fused spur or plug)
COLD RE-FILL - A 3/4" Equilibrium Valve will improve refill of cold storage tank.
BYELAWS - This pump complies with the United Kingdom Water Fittings Byelaws Scheme.
It must be fitted by a competent installer in accordance with Water Byelaws and the requirements of the Institute of Electrical Engineers.

USEFUL ACCESSORIES.
SUPERGEN PUMP RANGE

The following products can be a useful addition to your system.

LEAK DETECTION

Any pump or flexible can leak after some time in use and this could cause some water damage. Leak detection systems are available to detect and sound an alarm if the pump leaks.

LOW WATER DETECTION

When there is a higher than usual use of water, such as when there are guests in the house, your cold water storage tank may be emptying quicker than it is being re-filled. If this occurs for a long enough period your tank can run out of water introducing air into the system. This will affect the performance of the pump and ultimately could damage it.

e.g. A typical shower system with a rose and body jets can use in excess of 30 litres per minute (6.7 gallons) which if used for 10 minutes will consume a total of 300 plus litres (67 gallons). A typical cold water storage tank (in the loft) will hold 50 gallons and the refill rate could less than that being pumped, particularly when water is being used in other parts of the house or the ball valve in the tank is inefficient.

This can be easily guarded against by installing a Floatswitch in the cold storage tank which will turn the pump off when the level in the tank falls to a predetermined level.
REF: N2055 ~ Double Protection Float Switch

HOT WATER PROTECTION (TEMPERATURE REGULATOR)

It is important to ensure that the hot water does not exceed 60^{0}C when entering the pump as this can cause a reduction in performance and damage to the pump. Where it is necessary to have the hot water above this temperature or a thermostat is not fitted to the cylinder it is necessary to install a Temperature Regulator. This mixes the hot with the cold before it enters the pump.
REF: N2725 ~ Temperature Regulator

PRESSURE REGULATOR

Where the pressure from the system is too high on the inlet side of the pump the installation of Pressure Regulators will give the facility for the pressure to be set at the maximum as stated in the pump instructions.
REF: N2708 ~ Pressure Regulator

FLANGE

Some installations require either an Essex Flange, 22mm Warix Flange or a 22mm Surrey Flange (see Installation Instructions).

These products can be obtained from your retailer.
In the event of a problem please contact Smart Showers
Tel: 01793 822775 Fax: 01793 823800

FAULT FIND

FAULT : PUMP 'DEAD' (BUT WATER FLOWING)
This is usually an electrical problem –
(a) check socket or spur fuse (should be 5 amp)
(b) connect pump using extension lead to another socket and test pump.

FAULT : NO FLOW OF WATER.
This can be caused by -
(a) 'Negative Head' i.e. insufficient height above shower rose to cold storage tank.
(b) blocked filters in either the inlet hose, mixing valve or shower head - check and clean.
(c) air in system - (see at end of page).

FAULT : PUMP SWITCHES ON & OFF INDEPENDENTLY (Hunting).
This can be caused by -
(a) back-pressure / 'hammer-blow' - check that Essex or Warix or Surrey Flange is used and that both hot and cold supplies to pump are 'dedicated'.
(b) leaks in system - check pipework and pump.
(c) restrictions in system - check for high restriction in system (toilet).
(d) air in system - (see end of page).

FAULT: PUMP SWITCHES OFF INDEPENDENTLY.
This can be caused by -
(a) electrical failure - check electric's
(b) pump overheated / thermal overload - if pump body very hot leave to cool and try again after 2 hour.

FAULT : PUMP CONTINUES RUNNING WHEN SHOWER OFF (Running-On).
This can be caused by -
(a) air trapped in flow switch, gently tap around 'outlet' to try and free. (see end of page)
(b) flow switch jammed.

PUMP NOISEY.
This can be caused by -
(a) cavitation / air - (see end of page).
(b) bearings - usually caused by excessive temperature, 'air' and/or water starvation.

PRESSURE / TEMPERATURE VARIATION.
This can be caused by -
(a) air / water starvation - (see end of page).

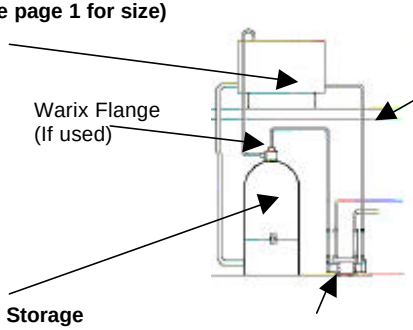
FAULT - 'AIR'. Air can be introduced into the pump in various ways.
(a) **Water too hot** (above mid 60's) - check cylinder thermostat is set at maximum 50°C. If there is no thermostat there MUST be another form of control (Temperature Regulator). **If you cannot hold the hot pipe (after the cylinder) or hold your hand under a running hot tap when fully heated, the water is probably too hot.**

(b) **Wrong cylinder fitting** - check that a Essex, Warix or 22mm Surrey Flange has been used.

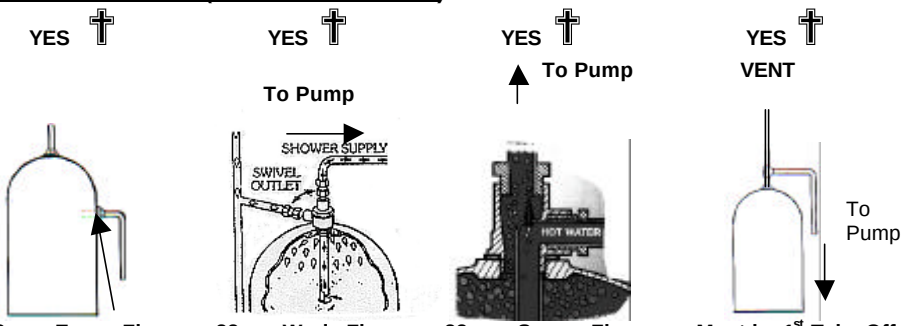
(c) **Run out of water (short period)** - check that the cold water tank is re-filling fast enough to maintain a level above the outlet. A 3/4" equilibrium ball valve will improve the re-fill into the cold storage tank. Also for the larger pumps check the pipe size from the cold tank to the cylinder (28mm recommended). A Double Protection Float Switch **(N2055)** will protect the pump before running dry.

DO's AND DONT's

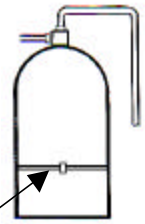
PUMP LOCATION / PIPEWORK.
Cold Storage
(See page 1 for size)

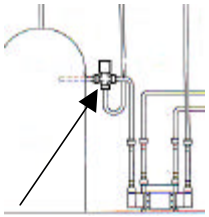


CYLINDER FITTINGS (In Order of Preference)

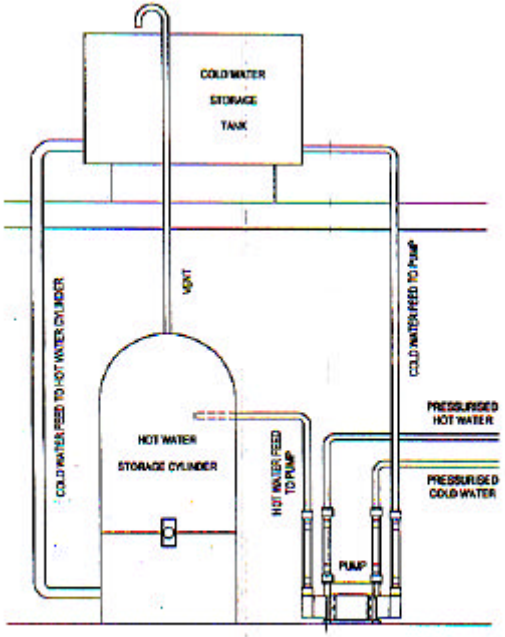


HOT WATER TEMPERATURE
MUST BE KEPT BELOW 65°C AT THE PUMP (STAT SET AT 55°C)

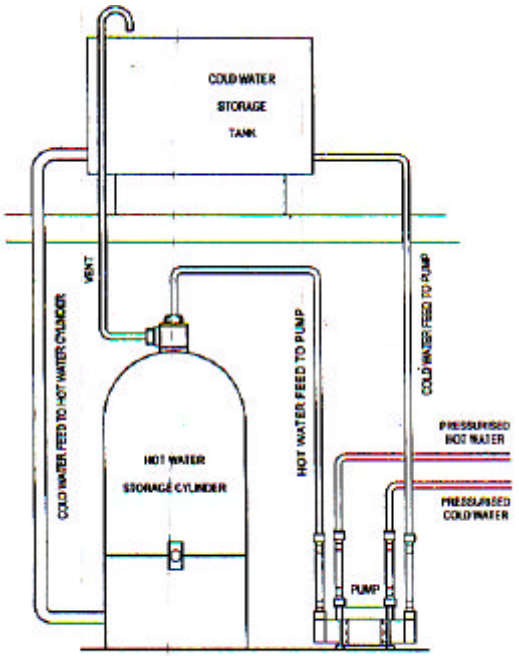




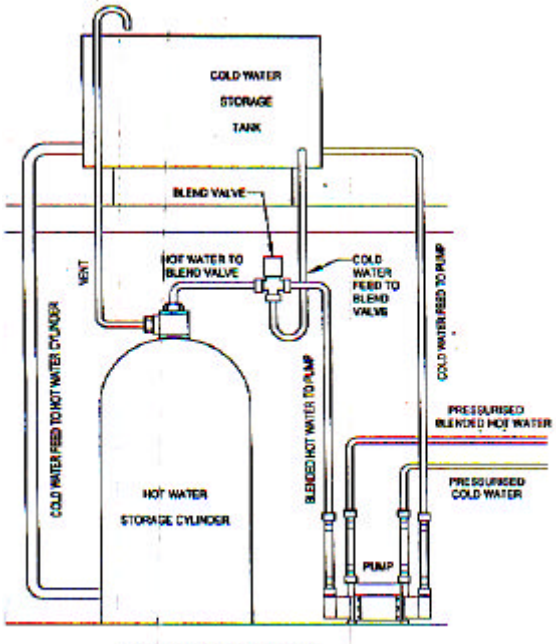
If there is not a Thermostat fitted to the cylinder a Temperature Regulator must be fitted.
Note: COLD supply must be dedicated i.e. taken direct from cold storage tank (NOT mains or other supply). If both a CylinderThermostat and Regulator are used the Cylinder Thermostat MUST be set a MINIMUM 10°C above the blended temperature setting e.g. 60°C.



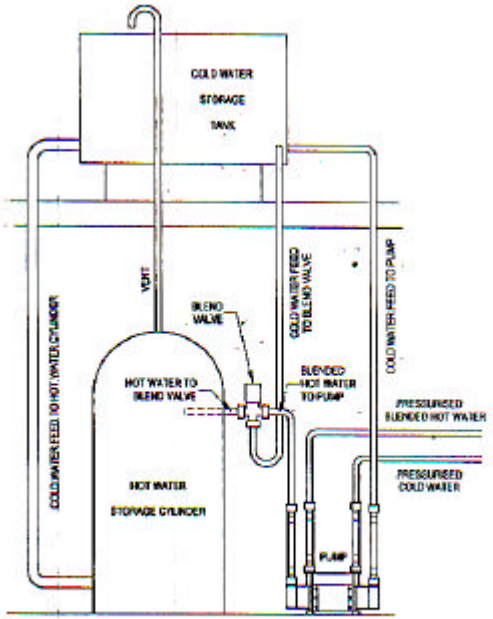
Essex Flange & Thermostat



Warix Flange & Thermostat



Warix Flange & Temperature Regulator



Essex Flange & Temperature Regulator