

SECTOR

Vision

SHOWER HANDBOOK

IMPORTANT:

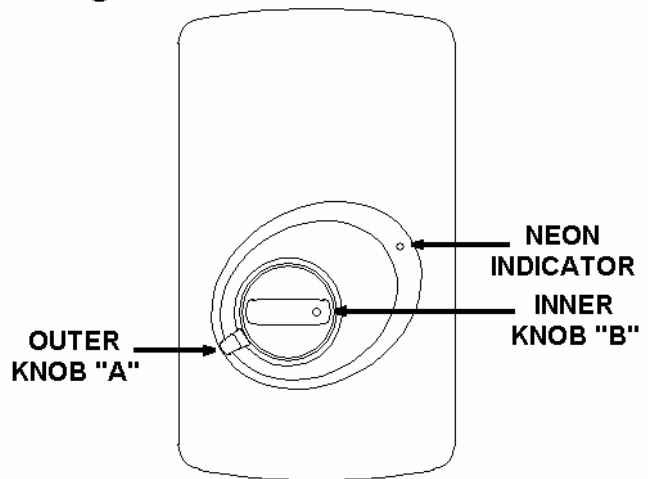
**This booklet should be left with the user after
installation and demonstration**

Thank you for choosing a quality Sector product manufactured in the UK.

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diagram 1



How to use your Sector Shower

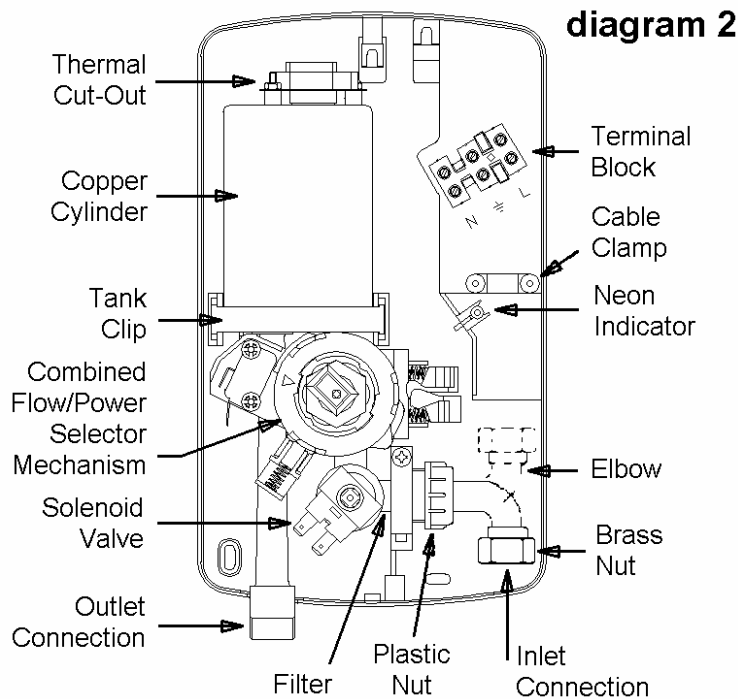
1. Ensure the electricity and water are turned on to the unit.
2. Your shower has 3 power settings selected by turning outer knob "A".
The most popular is "high" and for your convenience this can be obtained one position away from "STOP".
There are also options for a "medium (med)" or "cold" shower (see notes 8 and 9).
For this example turn outer knob "A" to "high" and set inner knob "B" to "1 o'clock" on the scale.
3. The water will flow and the neon light will glow brightly indicating that the selected power setting is "high".
4. **Allow about 20 seconds** for the temperature of the water to stabilise.
- 5a. If the water is **too hot**, then increase the flow of water by **turning inner knob "B" anti-clockwise** to "6 o'clock" on the scale.
Wait 20 seconds for the temperature of the water to stabilise.
Repeat turning anti-clockwise if necessary until you get the water temperature of your liking.
- 5b. If the water is **too cold**, turn inner knob "B" **clockwise** to "8 o'clock" on the scale and continue as necessary until you get the water temperature of your liking.
The final adjustment may be anywhere on the scale.
- 5c. Basically turning inner knob "B" **clockwise increases** the water temperature, whilst turning **anti-clockwise decreases** the water temperature.
6. Once a temperature setting to your liking has been achieved, inner knob "B" will rarely need adjusting, eg: adjust for variations of incoming mains water temperature between summer and winter.
7. When you have **finished** showering, turn outer knob "A" anti-clockwise to the "STOP" position.
You have no need to adjust inner knob "B".
Switch off the electricity at the ceiling switch or local isolator.
8. The "med"(medium) setting of outer knob "A" reduces the power used by the shower giving a cooler shower or the option of reduced water flow.
This option is mainly used for summer usage and if this is used then inner knob "B" must be re-adjusted.
9. The "cold" setting of outer knob "A" will supply water without any heating, and the neon light will go out.
10. Your shower is **designed to stabilise temperature** changes caused by water pressure fluctuations.
These can result from toilets being flushed or taps being turned on and off.
When this happens your showering temperature will be held within a controlled band, provided that the minimum pressure required by the shower is maintained.
11. Your shower requires a minimum operating pressure of 69kPa (0.7 bar, 10 psi). At pressures above 69kPa (0.7 bar, 10 psi) it will minimise temperature fluctuations as detailed above in note 10.
If the water pressure falls below 69kPa (0.7 bar, 10 psi) it is likely that the pressure switch will turn off the power to the heating elements, resulting in a cold shower.
This will be indicated by the neon light going out.
12. Note that inner knob "B" **IS NOT A TAP** and does not turn the water off.

**WARNING: DO NOT SWITCH THE SHOWER ON IF YOU SUSPECT IT OF BEING FROZEN.
WAIT UNTIL YOU ARE SURE IT HAS THAWED OUT**

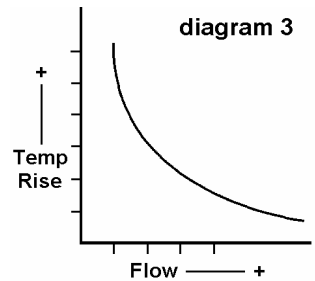
How your Sector Shower Works

Your shower is designed for convenience, economy and safety of use.

1. Water is heated instantaneously as it flows over the heating elements in the copper cylinder (diagram 2).



2. The required water temperature is achieved by adjusting the rate of water flow. Diagram 3 shows the principle involved in relating temperature rise to flow rate. The higher the water rate the lower the temperature rise and vice versa. The temperature of the water supplied from the mains can vary considerably throughout the year from 5 to 20°C. This means that in the winter, flow rate will be less than in the summer to achieve the same outlet temperature. In summer the "med" (medium) power setting may give adequate hot water.



3. The heaters are only switched on when sufficient water is flowing. This is done automatically with a switch which works on water pressure and is indicated by the neon light illuminating depending on the power selected by outer knob "A" selection.
4. The water is turned on and off by the solenoid valve built into the shower.
5. The flow of water is automatically held at the level set by the user even though the supply pressure may vary (See "How to use your shower" note 10).
6. If the water supply falls below a set limit, the pressure switch will operate and switch off the power to the elements. This is indicated by the neon light going out (see "How to use your shower" note 11).
7. As a further safeguard, a thermal cut-out switches the power off if the water temperature climbs above the set limit. This cut-out, which gives an audible click, may also operate due to residual heat when the shower is switched off. It will reset itself if water is run through the shower for 10 to 20 seconds.
8. The pressure relief device is to safeguard against extreme abuse conditions.

IN ORDER TO MAINTAIN THE PERFORMANCE OF YOUR SHOWER, YOU MUST CLEAN THE SHOWER HEADSET REGULARLY

All water contains particles of lime, which build up in the shower headset and unit reducing the performance. It is therefore important to clean the shower headset by simply rubbing the rubber nozzles. The frequency of this will vary from weekly to quarterly depending on water hardness and experience.

NOTE: After use it is normal for some water to drip from the shower had for a few moments. This inhibits scale build-up over prolonged use.

What to do if things go wrong

SELF HELP

If the shower is unsatisfactory, make the following checks before calling out the contractor. Any one of these adjustments could restore the performance.

a) Water too HOT	Increase water flow by adjusting the temperature control anti-clockwise. Clean shower handset. Switch power to "med" (medium) setting. Increase pressure to water supply e.g. fully open service valve or stop-cock. Check hose is not kinked restricting the water flow.
b) Water too COLD	Decrease water flow by adjusting the temperature control clockwise. Switch power to "high" setting.
c) Spray pattern poor	Clean shower handset.
d) Water takes longer to heat up	Switch power to "high" setting. Thermal cut-out has operated after previous use. Will automatically reset when unit cool down.
e) Water goes cold while using shower	Check neon light is on. Check water pressure has not fallen so far as to let pressure switch cut out, e.g. Another tap drawing water off. Raise position of handset.
f) Broken parts	Please contact our spares department on 08700 102829. Fitting instructions are provided with most spares

PROFESSIONAL SERVICE

If the above checks fail to restore the performance, you should seek professional help.

The person who installed the shower is probably the best one to repair it and is certainly the person to contact if you have had a problem in the guarantee period.

The following additional checklist is provided for the benefit of the qualified service person.

WARNING: SWITCH OFF THE ELECTRICITY AT THE ISOLATING SWITCH BEFORE REMOVING THE COVER TO MAKE CHECKS

a) Water too HOT	Water flow restricted by blockage in filter of solenoid valve. Switch off water, loosen inlet connection to solenoid, remove filter in solenoid with long nosed pliers and flush clean.
b) Water too COLD	Check circuit through thermal cut-out. Check circuit through microswitches on the pressure switch. Check each element circuit. Check tightness of electrical connections.
c) No control over water	Undo headworks of stabiliser valve. Check stabiliser is in place and remove any debris in valve.
d) Water leaks from burst pressure relief valve	Check for cause of high pressure and remove it. Blockage on outlet e.g. blocked showerhead. Replace the pressure relief disc.
e) Water does not flow when outer knob "A" is turned.	Check circuit through solenoid coil. If defective then replace. Check circuit through microswitches. If defective then replace. Power supply not reaching shower.

Sector After Sales Service

We offer a technical advisory service on the telephone to contractors and other customers with problems in the field.

TELEPHONE 01733 456936

Some parts can be supplied against Credit or Debit cards.

TELEPHONE 08700 102829

Remember to quote the exact type of shower, as written on the front of the shower and on this leaflet.

It may also be of use to have a note of the model and serial number as stated on the underside of the shower.

How to maintain your Sector Shower

It is recommend that the shower unit and hose etc. be cleaned using a soft cloth and that the use of abrasive or solvent cleaning fluid be avoided.

We recommend that before any cleaning, the isolating switch be turned off, thus avoiding accidentally switching on the shower.

The shower handset should be periodically cleaned as detailed on page 3.

Installation Instructions

ALL WIRING AND INSTALLATION MUST BE SUPERVISED BY A QUALIFIED ELECTRICIAN

WARNING: DO NOT INSTALL THIS SHOWER IN A ROOM WHERE IT MAY BE SUBJECT TO FREEZING.

We recommend that the installation is done in the following sequence.

- a. Fixing the shower to the wall
- b. Plumbing
- c. Electrical connections

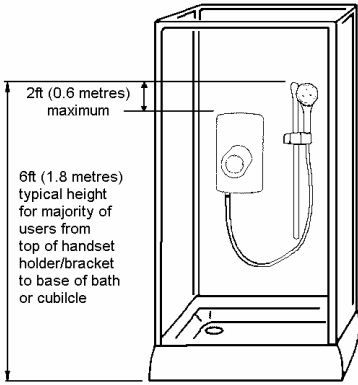
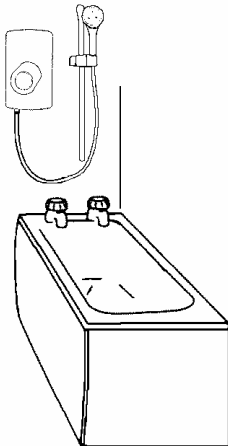


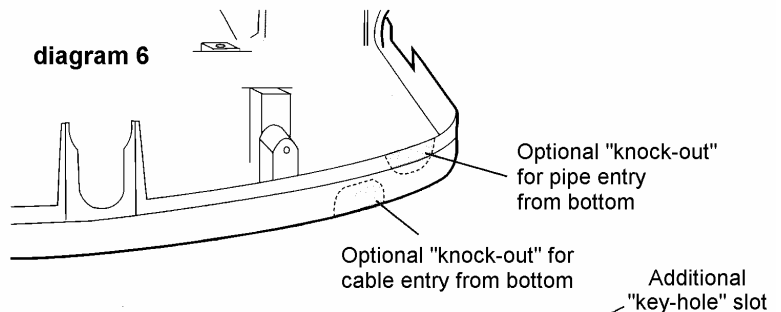
diagram 5



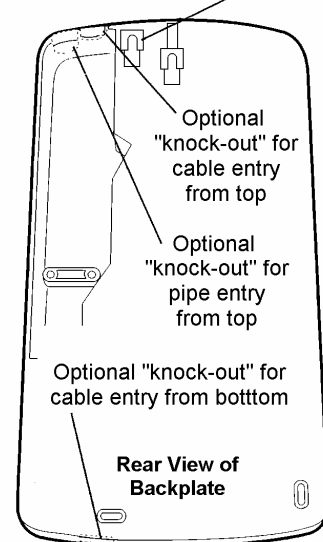
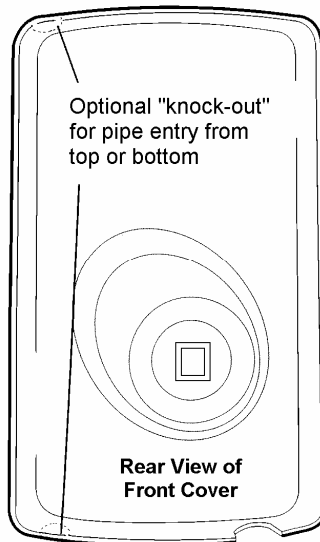
a. Fixing the shower to the wall

1. Position the riser rail at the height recommended in diagram 5 and mark its position
2. Position the heater so that the top of the unit is horizontal and level with, **or up to 0.6 metres (2ft) maximum below the top of the handset holder/bracket**. Choose a flat piece of wall to avoid the possibility of distorting the backplate thus making the front cover a poor fit.
 - 3. Adjust the position to get the most convenient arrangement taking the following into account.
 - The possible need to use the handset over the sink for hair washing etc.
 - The heater must not be mounted in the direct spray from the handset.
 - The handset must not be able to come into contact with used water in the cubicle, bath or basin. If it can, even after the hose has been retained by the soap dish (see diagram 10), then a vacuum breaker must be fitted. It should be noted that these devices are liable to minor leakage so they must be positioned so that any drips are not detrimental.
4. Fix the riser rail with screws provided. The fixing holes at the base of the brackets will be disclosed by removing the plastic fronts. Assemble as shown in diagram 10.

diagram 6



5. Decide the position of the electrical cable to the unit. If top or bottom entry is chosen, cut away the walls in the backplate as shown in diagram 6.
6. Decide the position of cold water pipe into the unit. Cut away the relevant walls of the backplate as shown in diagram 6. If rear, please read the section on plumbing.
7. If you have not yet done so, remove the front cover (complete with knobs) of the unit by undoing the retaining screws at the top and bottom of the unit and lifting the cover off. Your shower is provided with 2 fixing positions in the backplate). The top-fixing hole is a "key-hole" slot (another key-hole is provided for alternate fixing), and should be marked and drilled first.



Tighten top screw with head protruding about 10mm from the wall and hook the backplate over the screw head. This allows for correct and accurate alignment of your shower before marking and fixing the bottom position. You may not wish to tighten up both screws at this stage as the holes are elongated to allow for adjustment after other connections have taken place.

b. Plumbing

The heater must be connected to the mains cold water supply. This must have a minimum running pressure of 69kPa (0.7 bar, 10 psi) and a maximum pressure of 690kPa (7.0 bar, 100 psi).

Before connecting the pipe work to the shower, ensure that pipe work is flushed out.

- It is recommended that a WRAS (Water Regulations Advisory Scheme) listed isolating valve is fitted between the rising main and the unit. This will allow the unit to be serviced or exchanged without having to turn off the water at the water stop valve.
- The heater can be fed from a header tank provided this has a minimum head of 7 metres (23ft).
- Ø15mm copper or stainless steel pipe should be used.
To avoid cross threading, **DO NOT REMOVE** the brass nut from the elbow when positioning the pipe.
If top entry is required, turn the elbow 180° into the required position.
If rear entry is required, treat as top entry with an additional "Yorkshire" elbow (soldered type) for fitting into the rear channel.
In multiple installations, correct pipe work sizes should be calculated to maintain adequate flow to each shower.
- It is in order to use a WRAS (Water Regulations Advisory Scheme) approved sealant sparingly whilst avoiding excess finding its way into the shower operating parts.
- With stop valve connected, **flush the pipe work through to remove any particles etc**, before making the final connection to the shower.
Blockage in the water ways (particularly the handset and solenoid valve) will prevent the heater working properly.
- The shower is designed to have an open outlet and should only be used with "Sector" recommended fittings.
Do not connect the handset until after the shower front cover and corner section are fitted.

WARNING: DO NOT FIT A TAP ON THE SHOWER OUTLET.

TAKE CARE TO AVOID RESTRICTING THE OUTLET OF THE PRESSURE RELIEF DEVICE

c) Electrical

The electrical installation must be in accordance with the current BS.7671 (IEE Wiring Regulations)

- The shower is designed for a single phase AC electrical supply.
Please check the rating plate on the unit to see what details apply to your unit.

Cable Sizes	Fuse / MCB	Cable Length
7.2/6.6kW 240/230V 4mm ²	30A Cartridge Fuse	17m Max
8.5/7.8kW 240/230V 6mm ² or 10mm ²	40A Cartridge Fuse Type A MCB 40 or 45A Cartridge Fuse	14m Max 22m Max 22m Max

Remember to upgrade the cable if it runs in thermal insulation in a loft, or for a longer distance.

- A means for disconnection in all poles must be incorporated in the fixed wiring in accordance with the wiring rules.
We recommend a ceiling switch mounted in a convenient position.
- Cut back cable as in diagram 8. Connect cable to terminal block making sure that all the retaining screws are **VERY tight** and that no cable insulation is trapped under the screws.

WARNING: FAILURE TO COMPLY WITH THESE INSTRUCTIONS COULD RESULT IN FAILURE OF THE TERMINAL BLOCK

- WARNING: THIS APPLIANCE MUST BE EARTHED**

diagram 7

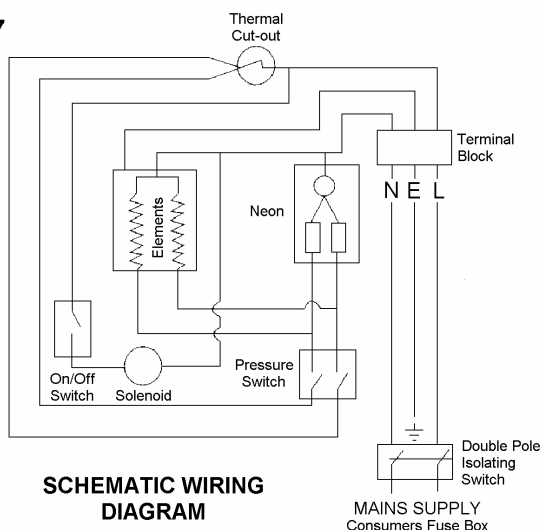


diagram 8

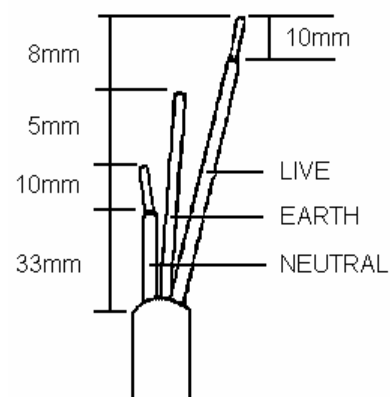
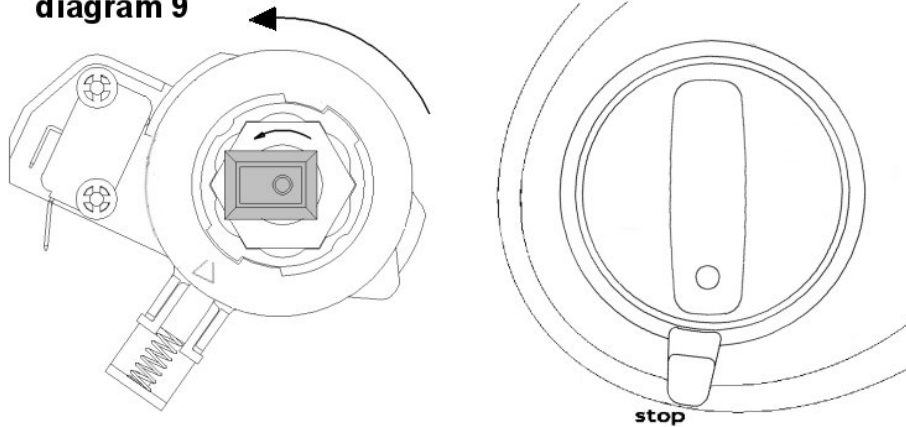


diagram 9



**Outer Fully Anti-Clockwise
Inner Fully Anti-Clockwise**

**Align Inner and Outer Knobs
As Shown Above**

5. Rotate outer drive wheel fully clockwise and the inner square drive fully anti-clockwise. On the front cover rotate the inner and outer control knobs until they are aligned as per diagram 9. Push the front cover onto the backplate, small adjustments in the control knob positions may be necessary to achieve final alignment. Check that the control knobs function correctly before replacing the top and bottom fastening screws.
6. Fit the shower hose, and operate the shower first without the handset to flush out particles, fit the handset and then operate the shower as on page 2 and check:
 - a. That the water gets to a satisfactory temperature.
 - b. Water flow can be adjusted by inner control knob "B".
 - c. Power selection operates in all 3 positions, giving a change in water temperature and that the neon light functions correctly.
 - d. Check again for leaks
 - e. That the holes in the shower handset are not blocked
7. DEMONSTRATE OPERATION TO USER

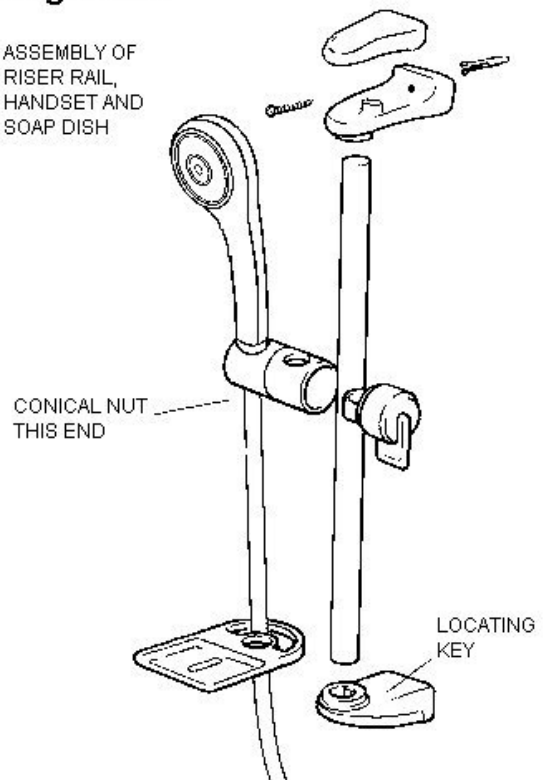
Additional Accessories

White 2 metre Shower Hose	Catalogue No. 83-593529
WRAS listed Water Isolating Valve	Catalogue No. 93-792452
Curtain and Rail Pack	Catalogue No. 83-792802
Curtain and Rail Pack with Non-Slip Mat	Catalogue No. 83-792801

Spare parts/accessories can be supplied against any Credit or Debit cards from the Sales Hotline 08700 102829

diagram 10

ASSEMBLY OF
RISER RAIL,
HANDSET AND
SOAP DISH



Guarantee

Terms and Conditions for UK & ROI (outside UK & ROI contact your local distributor)

We, Rexel Senate Limited, guarantee this product for **domestic use only**, for the period of 24 months from the date of purchase.

Within the guarantee period we will resolve, **free of charge**, any manufacturing defects in the product resulting from faulty workmanship or material on condition that :-

- a) The appliance has been correctly installed in accordance with our instructions and is being used on the supply circuit or voltage printed on the rating plate.
- b) The appliance has been used in accordance with these instructions and has not been tampered with or otherwise subject to misuse, neglect or accident.
- c) The appliance has not been taken apart, modified or repaired except by a person authorised by us.
- d) Evidence of the date of purchase in the form of an invoice or receipt will be required in order to qualify for an in-guarantee repair.
- e) The guarantee period for the products used in commercial applications will be limited to 12 months.
- f) For the service work to be undertaken free of charge, the work must be only undertaken by Rexel Senate Ltd. or our approved agents.
- g) Service under guarantee has no effect on the expiry date. The guarantee on any exchanged parts or product ends when the original guarantee period ends.

EXCLUSIONS

This guarantee **DOES NOT** cover damage or defects arising from poor or incorrect installation. It is the responsibility of the installer to check that the installation parameters meet the requirements of the product, and any relevant regulations.

If we are called out to a fault, which is subsequently identified as being an installation fault, we will make a charge. It is important that the routine checks are completed before calling us out, as many issues can be simply diagnosed and resolved.

We make no guarantees as to response times for repairs. We will endeavour to achieve the most timely response possible but while we indicate an average response time, this should not be taken as a guarantee.

The guarantee applies to repair or replacement (at our discretion) of the product subject to the conditions above, and **DOES NOT** cover compensation for the loss of the product or consequential loss of any kind.

The guarantee does not apply to the repair or replacement of pressure relief devices, sprayheads, hoses, accessories, isolating switches, electrical cable, fuses and/or circuit breakers.

This guarantee does not affect your statutory rights

SECTOR

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