

REDRING

Expressions

Revive

Revive Plus



**EXPRESSIONS REVIVE
EXPRESSIONS REVIVE-PLUS**

SMARTFIT 2 ELECTRIC SHOWERS

Installation and User Guide

IMPORTANT:

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

IMPORTANT SAFETY INFORMATION

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
YOU MUST DESCALE THE SHOWER HANDSET REGULARLY.**

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

- Your shower has been designed for convenience, economy and safety of use, provided that it is installed, used and maintained in good working order and in accordance with our instructions and recommendations.
- **ALL WIRING AND INSTALLATION MUST BE SUPERVISED BY A SUITABLY QUALIFIED PERSON.**
- **THIS APPLIANCE MUST BE EARTHED.**
- The installation must be in accordance with the current edition of BS.7671 (*the 'IET Wiring Regulations'*) and 'Part P' of the '*Building Regulations*' in force at the time of installation. Installations outside England and Wales must also conform to any local regulations in effect
- This appliance is intended to be permanently connected to the fixed electrical wiring of the mains supply with its own dedicated supply.
- This appliance must **NOT** be fitted where it may be subjected to freezing conditions.
- **DO NOT** switch the appliance on if you suspect it of being frozen. Wait until you are sure it has thawed out.
- This appliance is not suitable for mounting into steam rooms or steam cubicles.
- Isolate the mains electrical and water supply before removing the appliance front cover.
- **DO NOT** fit any sort of tap or control on the appliance outlet. The appliance is designed to have an open outlet and should only be used with the Manufacturer's recommended fittings.
- **THIS SHOWER IS APPROVED (EN-60335) WITH THE HANDSET PROVIDED AND UNDER NO CIRCUMSTANCES MUST ANY HANDSET THAT IS NOT APPROVED BY THE MANUFACTURER BE USED WITH THIS PRODUCT. YOU MUST REGULARLY INSPECT THE HANDSET FOR WEAR AND DAMAGE AND REPLACE IF NECESSARY, WITH OUR APPROVED PART.**
- Take care to avoid restricting the outlet of the pressure relief device (**fig.19**). If water is discharged from the pressure relief device, maintenance will be required before the appliance can be safely used.
- We **DO NOT** recommend this appliance be used in heavy or unsupervised commercial applications.

ADVICE TO USERS

The following points will help you have a greater understanding of how your shower works:

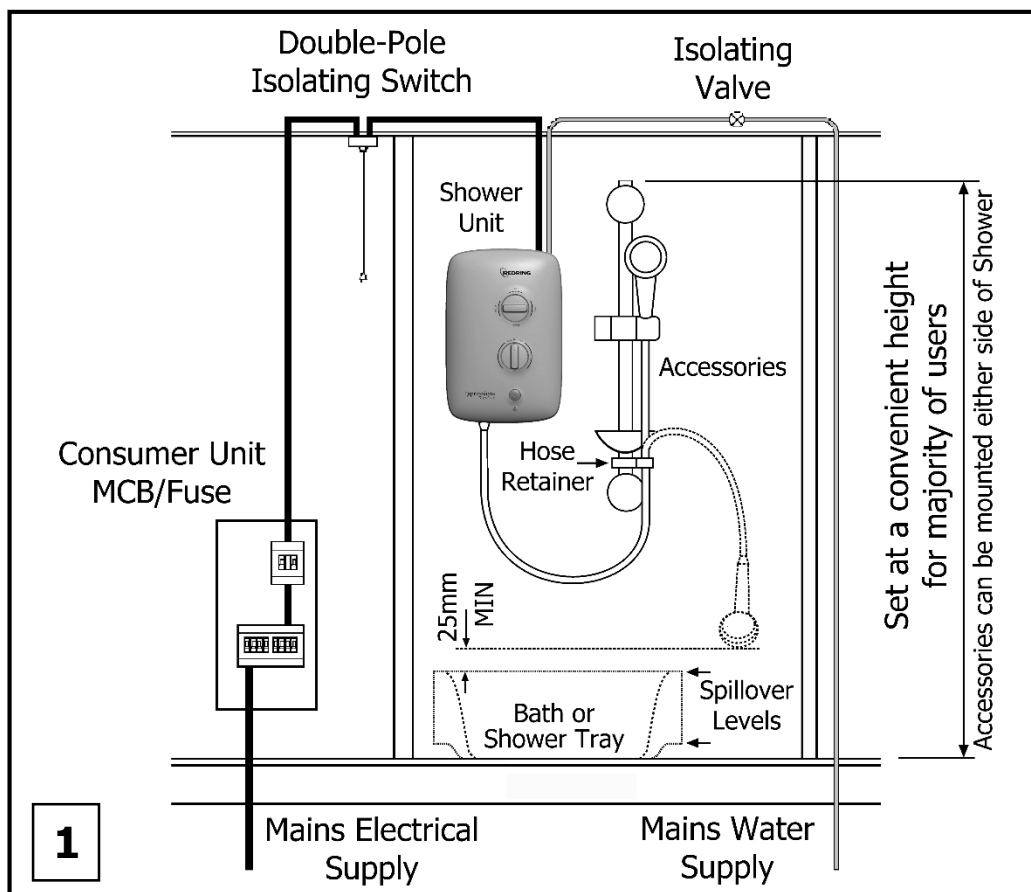
- The heating elements operate at a constant rate, dependent on your chosen power setting. The water temperature is achieved by adjusting the rate of water flow. The higher the water flow the lower the temperature and vice versa. The temperature of the water supplied from the mains can vary considerably 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 'ECO' power setting may give adequate hot water.
- 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 (see 'plumbing' page.5). If the water pressure falls below the minimum pressure required, it is likely that the pressure switch will turn off the power to the heating elements, resulting in a cold shower.

HOW TO INSTALL YOUR SHOWER

WARNING:

ALL WIRING AND INSTALLATION MUST BE SUPERVISED BY A SUITABLY QUALIFIED PERSON.

DO NOT INSTALL THIS SHOWER WHERE IT MAY BE SUBJECTED TO FREEZING CONDITIONS.



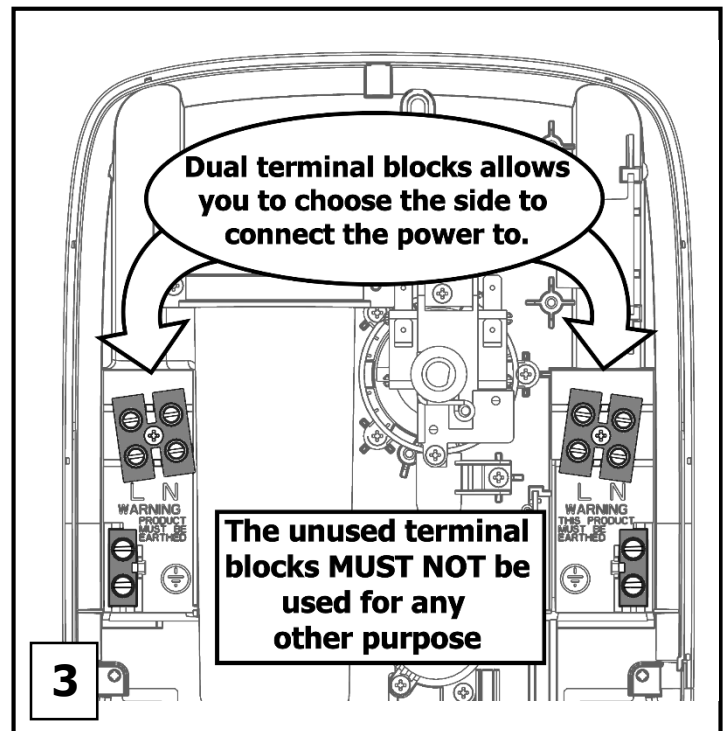
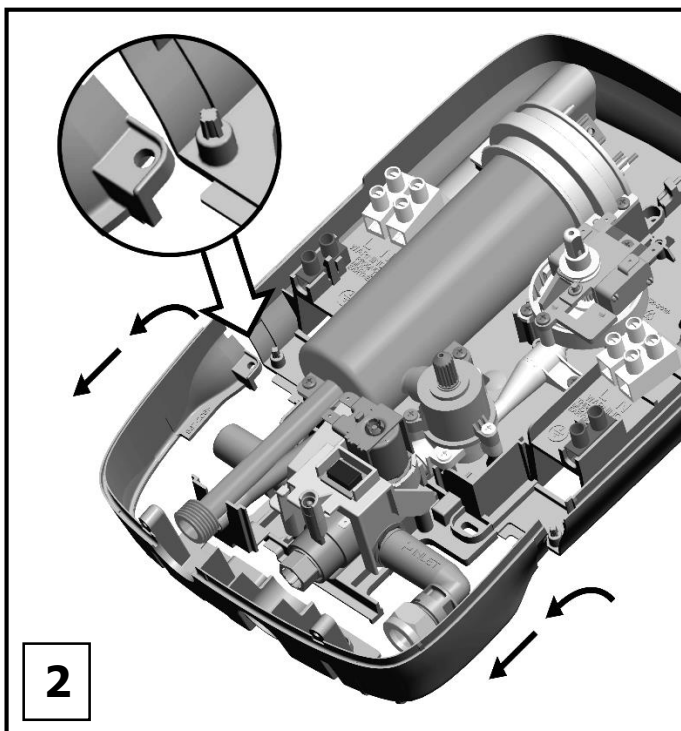
We recommend that the installation is done in the following sequence.

- a. Fixing the shower to the wall (see note below) b. Plumbing c. Electrical connections

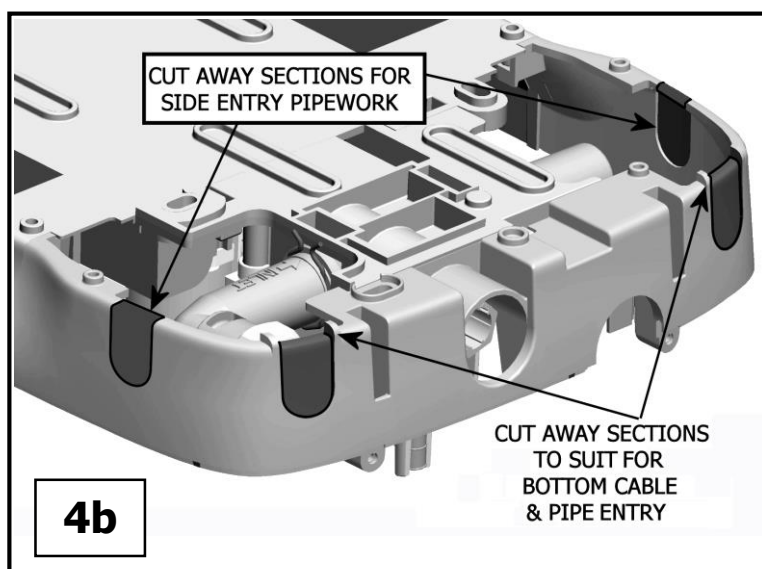
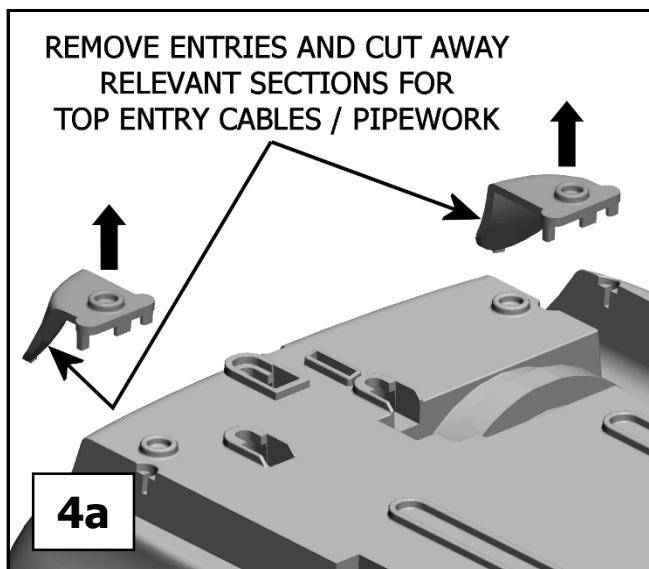
However, we recommend you determine the best configuration for your water inlet options before fixing the shower to the wall, as it may be easier to adjust/fit connections whilst unit is still 'in-hand'.

a. FIXING THE SHOWER TO THE WALL

1. Position the riser rail at a convenient height for majority of users (**fig.1**) and mark its position (see **fig.12** for accessory details).
2. Position the shower unit so that the showerhead cannot be immersed in the bath or shower tray when hanging down.
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.
 - **DO NOT MOUNT THE UNIT IN THE DIRECT HANDSET SPRAY.**
 - 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 hose-retainer (**fig.12**), a vacuum breaker must be fitted.
4. Fix the riser rail with screws provided (**fig.12**)
5. Remove the front cover by undoing the retaining screws at the top and bottom of the unit and lifting the cover off.



6. Decide the position of the electrical cable into the unit.
Your shower offers the ability to have the connections on the right side or the left (**see fig.3**).
If the top entries are chosen, remove the cable/pipe entry from fixing kit bag and cut away as shown (**fig.4a**).
If rear, bottom or side entries are chosen, remove the relevant cable/pipe entry from the detachable lower section as shown (**fig.4b**).



7. Your shower is provided with 6 x wall-fixing positions in the backplate (**fig.19**) These have been especially designed to match a number of previous 'Redring Showers', as well as providing flexibility for new installations.
- The 3 x top-fixing holes are a 'key-hole' slot design ('k' or 'l' **fig.19**), and the single most convenient should be marked and drilled first.
- Tighten fixing 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 positions.
- Mark and drill the other 2 x most convenient wall fixing slots ('m' **fig.19**), **ensuring the slot in the detachable lower section is used.**
- Remove the detachable lower section by lifting away from the 2 x fixing posts/pegs (**fig.2**). Tighten fixing screw in main shower, leaving the detachable lower section screw until later. You may wish to leave both fixing screws loose at this stage, as the holes are elongated to allow for adjustment after other connections have taken place.

b. PLUMBING

WARNING:

ENSURE THAT THE MAINS WATER SUPPLY MEETS THE REQUIREMENTS BELOW BEFORE CONTINUING INSTALLATION.

The shower unit must be connected to the mains cold water supply.

This must have a minimum supply running pressure of 100kPa (1.0 bar, 15 psi) at a minimum flow rate of 8 litres/minute*.

The maximum static supply pressure must be no greater than 1000kPa (10 bar, 150 psi).

* Minimum running pressure must be obtained at 9 litres/minute for 9.5kW.

WARNING:

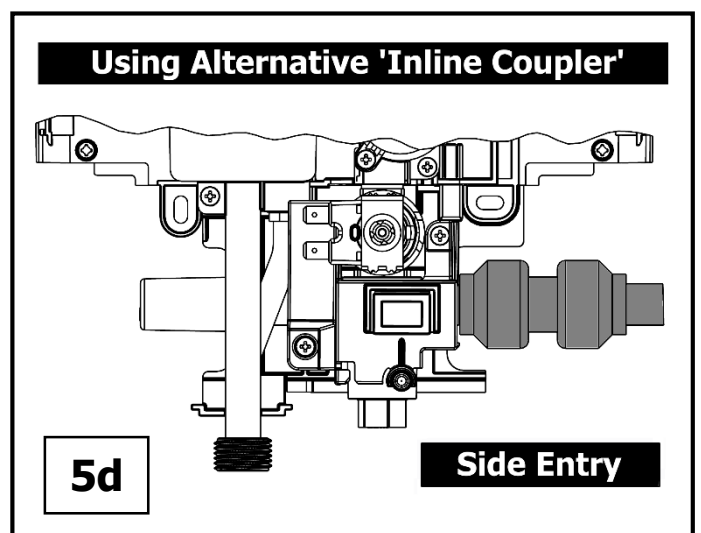
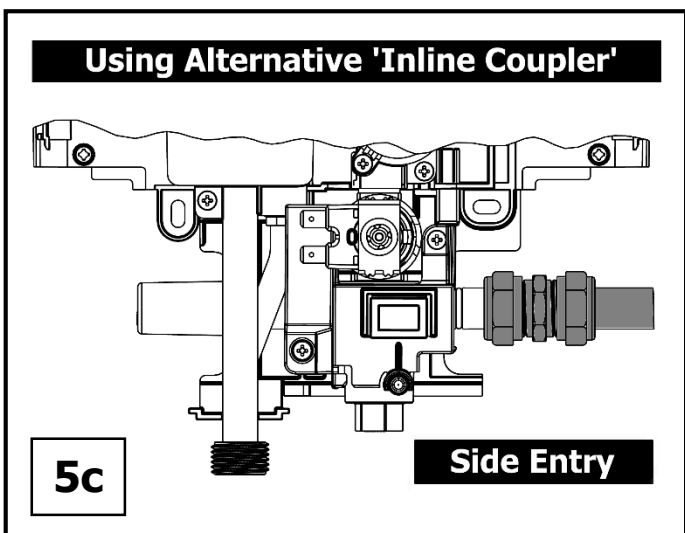
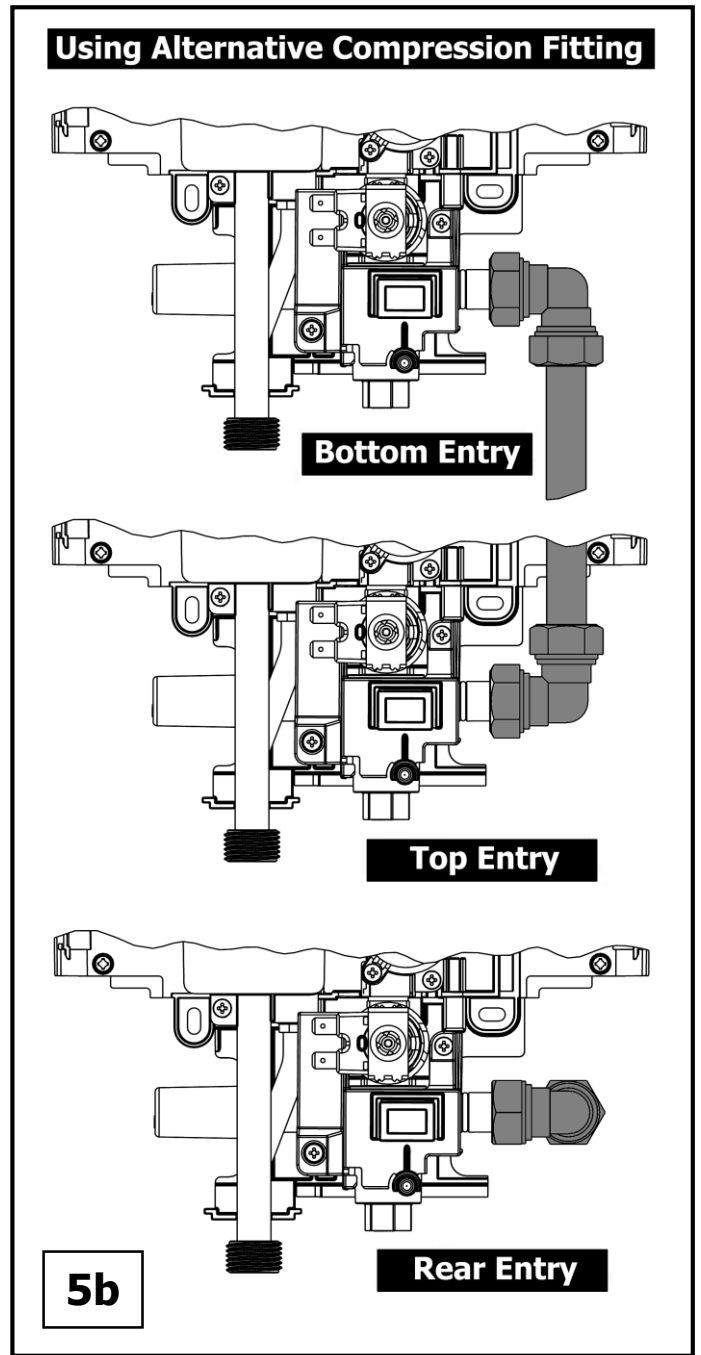
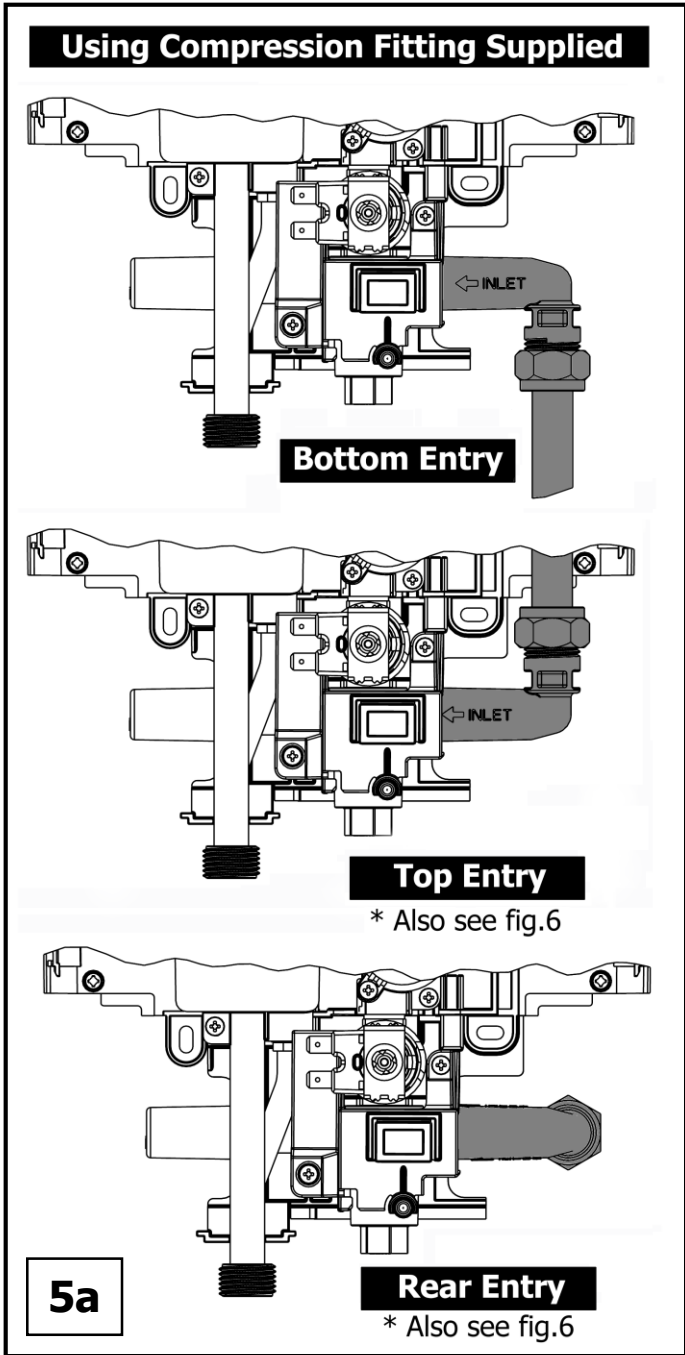
BEFORE CONNECTING THE PIPE WORK TO THE SHOWER, ENSURE THAT THE PIPE WORK IS FULLY FLUSHED OUT.

1. It is recommended that a WRAS (Water Regulations Advisory Scheme) listed isolating valve is fitted to the incoming mains cold water before the shower unit. This will allow the unit to be serviced or exchanged without having to turn off the water at the water stop valve.
2. Connect the mains water supply to the shower using Ø15mm copper pipe (BS.EN.1057) or Ø15mm plastic pipe (with insert).
If you choose to use a 'push-fit' connection rather than the compression elbow supplied (see **fig.5** and details on page.8), **DO NOT** use stainless steel or chrome plated pipe work.
In multiple installations, calculate correct pipe work sizes to maintain adequate flow to each unit.

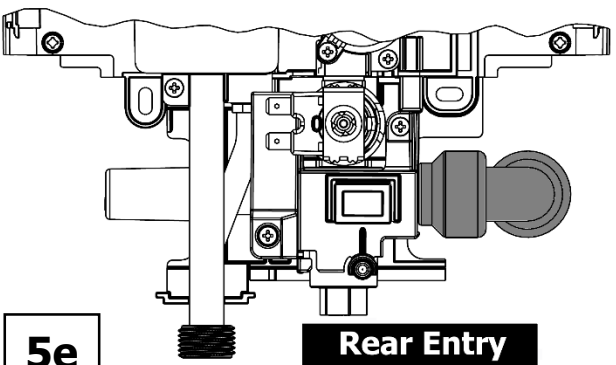
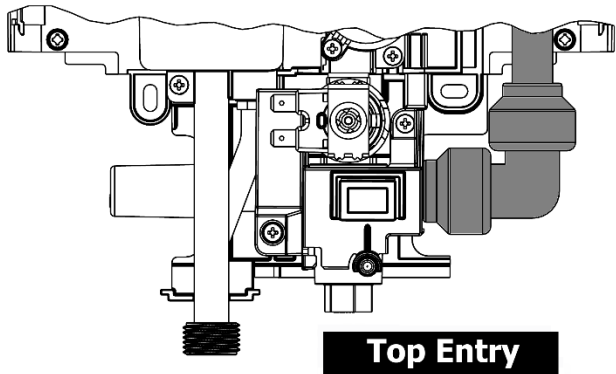
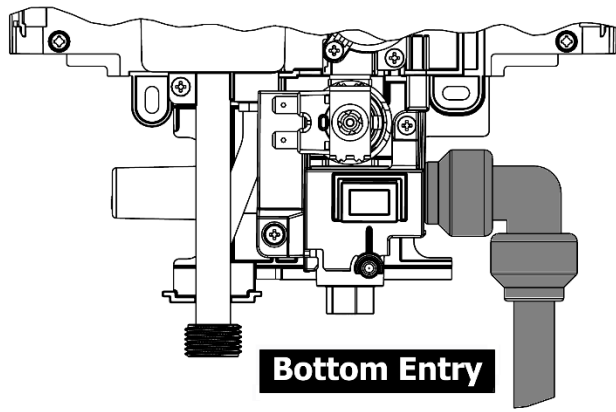
5

Showing Right Side Entry

Left Side Entry is available for all options by exchanging the fitted end cap (fig.7)

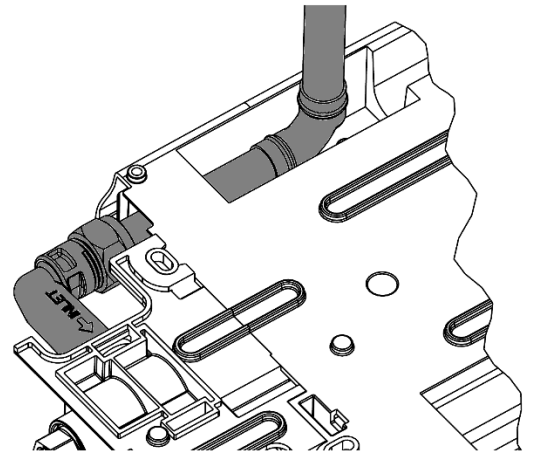


Using Alternative 'Push-On' Elbow

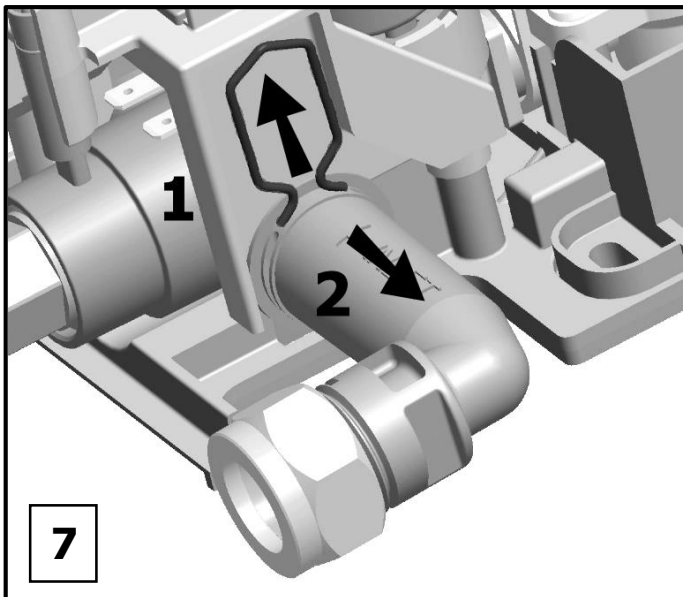
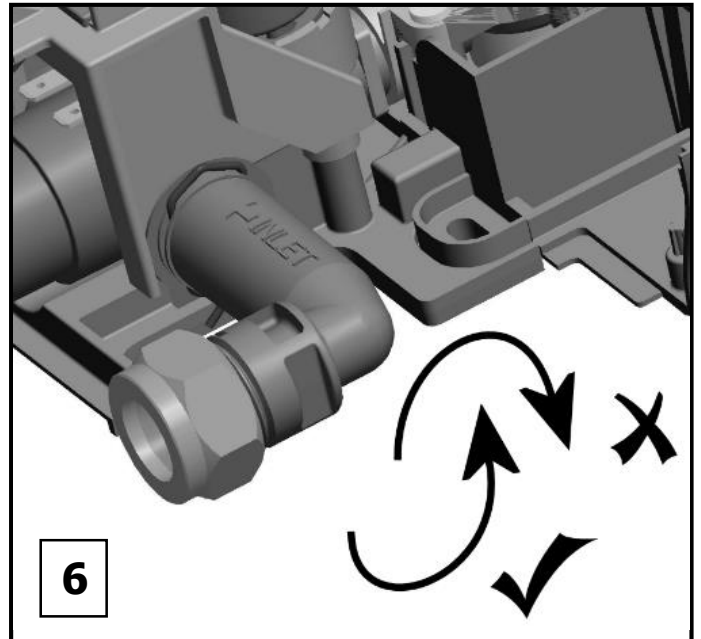


5e

Using Alternative 'Yorkshire Elbow'



5f



Also refer to page.8 for further water inlet entry information

WATER INLET ENTRY OPTIONS (also see fig.5)

The pipe work can enter the shower unit from 8 x different positions.

Bottom Left, Bottom Right, Top Left, Top Right, Rear Left, Rear Right, Side Left or Side Right.

The shower unit has come fitted with a compression elbow (**fig.5a**).

This can be removed to provide an alternative Ø15mm straight shank connection point (**fig.7**).

If desired, an alternative Ø15mm 'compression elbow' (**fig.5b**), a Ø15mm 'push-on elbow' (**fig.5e**) or a Ø15mm 'inline coupler' (**fig.5c/d**) can then be used.

Remove the compression elbow supplied by un-clipping the spring-clip (**fig.7**), and use desired fitting accordingly.

Top or Bottom Right positions

The shower unit has come fitted with a compression elbow set for a Bottom Right entry.

To set it to a Top Right position, swivel the elbow as shown (**fig.6**) ensuring it is rotated in an **anti-clockwise direction**.

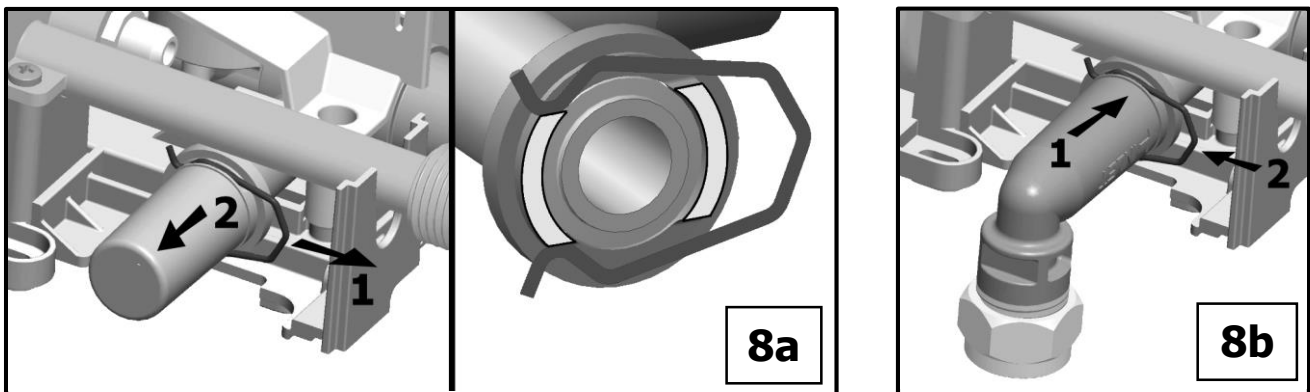
Top or Bottom Left positions

Pipe Entry can be converted to Left Top or Bottom by exchanging the fitted compression elbow and the fitted end cap.

Remove the fitted end cap supplied by prising the spring-clip to position shown (**fig.8a**), and pulling the fitting away from the inlet shaft.

Then replace with desired fitting and push the spring-clip back into position (**fig.8b**).

Ensure end cap is securely fitted to previous pipe entry.



Rear Entry positions

If Right Entry, swivel the fitted compression elbow to face a rear entry pipe connection.

If the pipe work entry is from the rear, ensure there is enough space left around the elbow for future servicing or alternatively access is possible from the rear.

If Left Entry, exchange the fitted compression elbow with the fitted end cap (**fig.8a/b**) and connect as Right Entry detail.

Alternatively treat as relevant Top Entry with an additional 'Yorkshire' elbow (soldered type) for fitting on the rear channel of the backplate (**fig.5f**)

Side Entry positions

If Right Entry, remove the compression elbow supplied (**fig.7**), and use desired fitting accordingly

If Left Entry, exchange the fitted compression elbow with the fitted end cap (**fig.8a/b**) and connect as Right Entry detail.

3. It is permissible to use a WRAS (Water Regulations Advisory Scheme) approved sealant sparingly, avoiding excess finding its way into the shower operating parts.
4. With the isolating valve connected, **flush the pipe work through to remove any particles etc**, before making the final connection to the shower.
Water way blockages (particularly in handset and filter) will prevent the unit working properly.
Note: You may be charged for a service call if it is due to incorrect installation.

5. The shower is designed to have an open outlet and should only be used with the manufacturers recommended fittings.
Do not connect the handset until the shower front cover and detachable lower 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

WARNING:

THIS SHOWER MUST BE EARTHED.

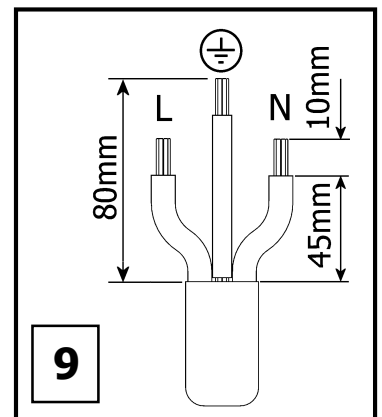
The electrical installation must be in accordance with the current BS.7671 (IET Wiring Regulations) and 'Part P' of the Building Regulations and/or local regulations

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

Rating	Cable Sizes	Fuse / MCB	Cable Length
7.2 / 6.6kW 240 / 230V	4.0mm ² 6.0mm ²	32A Type B MCB	21m Max. 35m Max.
	6.0mm ² 10.0mm ²	40A Type B MCB	27m Max. 45m Max.
8.5 / 7.8kW and 9.5 / 8.7kW 240 / 230V	6.0mm ² 10.0mm ²	40A Type B MCB	27m Max. 45m Max.
	6.0mm ² 10.0mm ²	45A BS.1361 fuse	12m Max.* 21m Max.*

*AS A GUIDE ONLY
 (* Only applies if external earth impedance is less than 0.35 Ohms)
Remember to upgrade the cable if it runs in thermal insulation in a loft, or for longer distances.*

2. 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.
3. Cut back cable (**fig.9**).
 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

THE UNUSED SUPPLY TERMINAL BLOCK MUST NOT BE USED FOR ANY OTHER PURPOSE.

4. Refit the detachable lower section onto the backplate ensuring it is firmly located over the 2 x fixing posts/pegs (**fig.2**), and tighten the wall fixing screw.

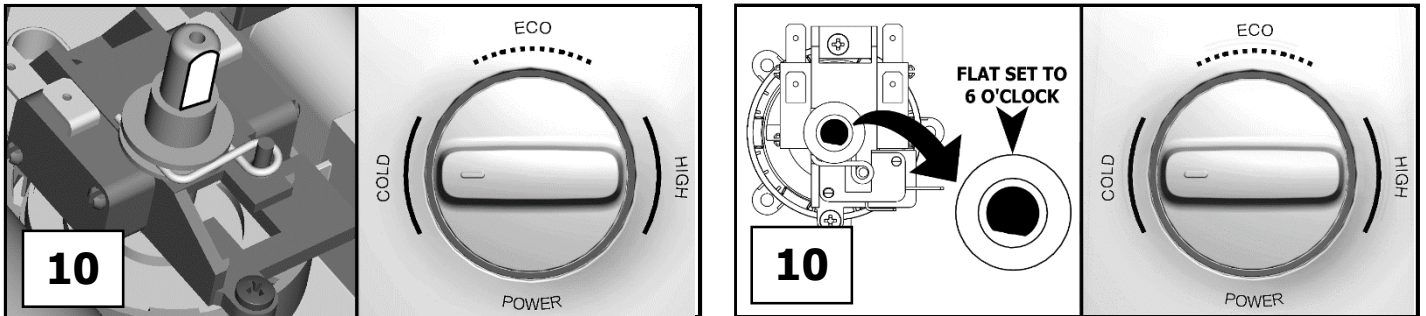
WARNING:

PLEASE NOTE THAT THE DETACHABLE LOWER SECTION MUST BE SECURED TO THE WALL USING THE FIXING POSITION PROVIDED.

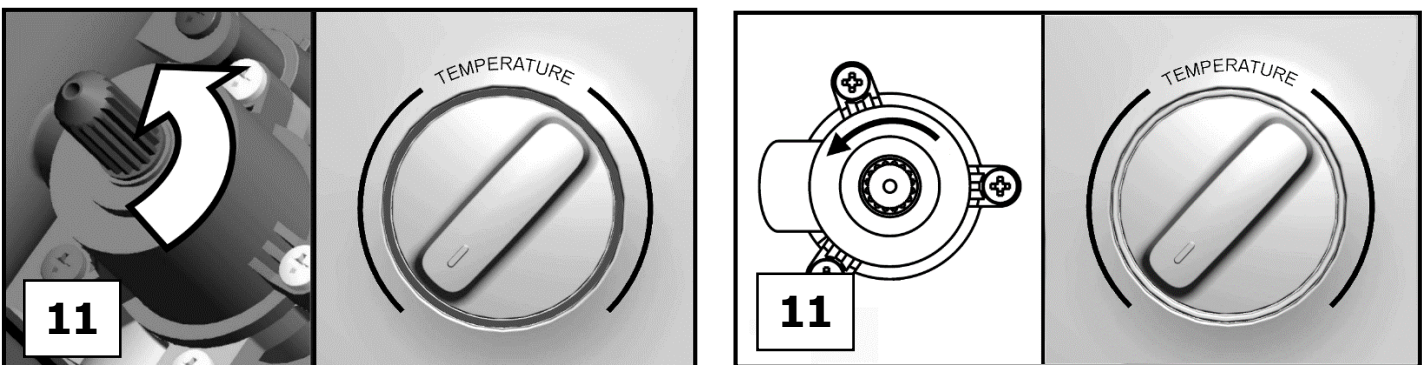
WARNING:

KNOB ALIGNMENT IS VERY IMPORTANT DURING THE INSTALLATION OF YOUR SHOWER AND MUST BE CORRECT FOR CORRECT OPERATION.

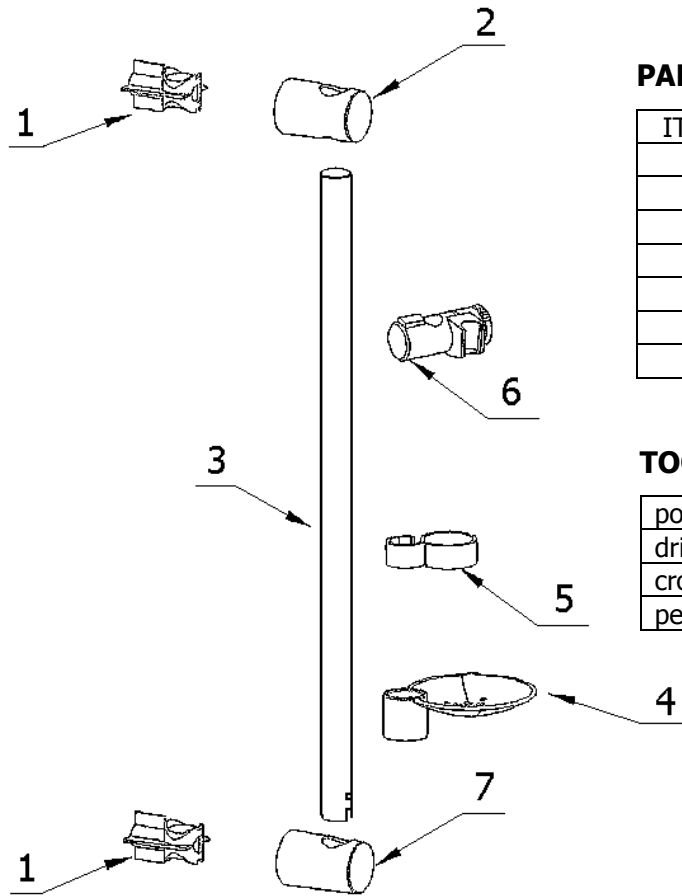
5. **Ensure** power select Knob is aligned to the 'COLD' (9 o'clock position), whilst the 'D-Shaft' in the product is aligned as shown (**fig.10**).



6. **Ensure** temperature Knob is aligned to the end of the blue arc as shown, whilst the 'spindle' in the product is rotated **fully** anti-clockwise as shown (**fig.11**).



7. Fully tighten all wall fixing screws.
8. Refit the front cover, and secure by replacing the top and bottom fastening screws.
9. **Ensure** that power select knob has been correctly aligned by ensuring that all 3 power settings can be selected.
10. **Ensure** that temperature knob has been correctly aligned by turning from minimum to maximum flow (approximately 1 full turn) mid position should be at approximately 1 o'clock.
11. If you have not yet done so, assemble your 'Smart-Fit Accessories' (**fig.12**).
12. Set the power select knob to 'COLD' position and check the temperature knob is turned fully anti-clockwise to allow the unit to fill with water prior to any heat settings being selected.
13. Place seal washer into the shower hose nut then tighten to the shower outlet pipe. Operate the shower first without the handset to flush out particles. Fit the seal washer into the other shower hose nut and then fit the handset. Operate the shower as in 'How to operate your shower' section, then please check:
- That the water gets to a satisfactory temperature and water flow can be adjusted by the temperature knob.
 - That the power select knob operates in all 3 positions.
 - Check again for leaks.
 - That the holes in the shower handset are not blocked.
- 14. DEMONSTRATE OPERATION TO USERS, AND LEAVE THIS BOOK WITH THEM FOR FUTURE REFERENCE.**

12**PARTS SUPPLIED**

ITEM	DESCRIPTION	QTY
1	wall bracket	2
2	top bracket cover	1
3	sliding rail	1
4	soap-dish	1
5	hose-retainer	1
6	shower holder	1
7	bottom bracket cover	1

TOOLS REQUIRED

power drill
drill bit
cross head screw driver
pencil

BEFORE YOU START

- Identify all components and check pack contents.
- The screws and wall plugs supplied are only suitable for use in solid walls.
- Ensure there are no hidden service pipe or cables where you intend to drill.
- If drilling into ceramic tiles, please use a ceramic drill bit.
- Please be careful of your safety when drilling.

INSTALLATION

- Mark the positions of the two drill holes.
Drill the wall at marked positions by using the power drill and then insert the wall plugs.
- Make sure the screw hole of top wall bracket and the wall plugs are centre.
Then put the screw through the top wall bracket and tighten.
Make sure the round opening points downward.
- Put the shower holder, hose retainer and soap-dish into the sliding rail and ensure the larger opening of the shower holder point upward.
Be sure that the notched end of the slider rail points downward.
- Assemble the non-notched end, sliding rail to the top wall bracket, and the notched end to the bottom wall bracket.
Put the wall screw through the bottom wall bracket and fix it to the wall plug.
- Assemble the bracket and fix it to the wall plug.
- Insert the rubber washers into both ends of the stainless steel hose.
Then connect one end to shower handset and the other end to the shower outlet.

Please Note: Bracket with anchor is bottom wall bracket, bracket without anchor is top wall bracket.

AFTER CARE

- To maintain the appearance of this fitting, ensure it is cleaned only using a clean soft damp cloth.
- A solution of warm water and mild liquid detergent may be used where necessary and then rinsed thoroughly.
Abrasive cleaners or acidic cleaners **MUST NOT BE USED** under any circumstances.

HOW TO USE YOUR SHOWER

Ensure the electricity and water are turned on to the unit.

Your shower has 2 control knobs and a push-button (**fig.13**).

Knob 'A' controls the 3 x power selection
'HIGH' 'ECO' 'COLD'

Knob 'B' controls the water temperature.

Button 'C' starts and stops the shower.

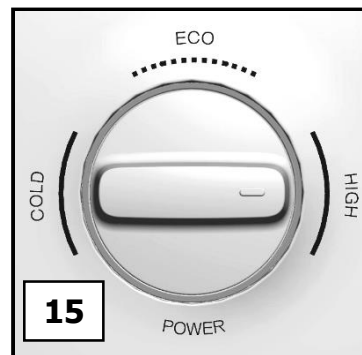
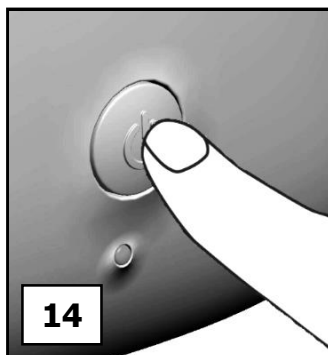
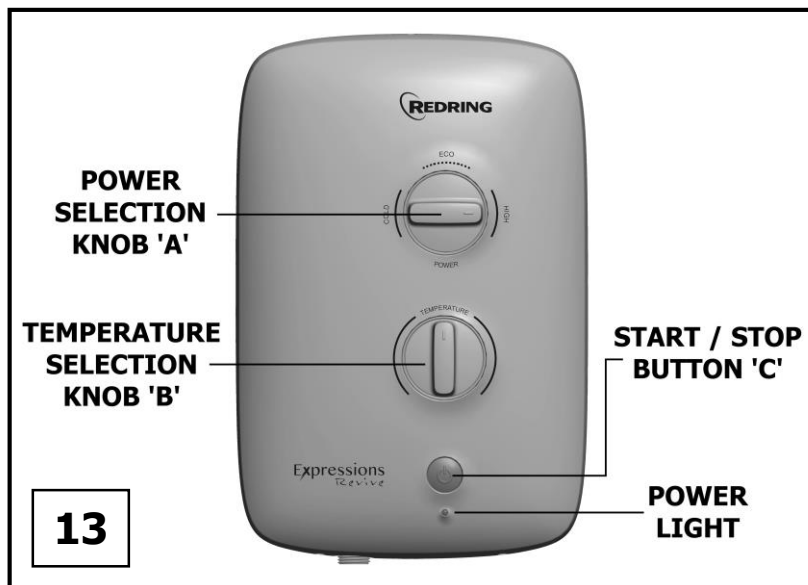
TO START THE SHOWER

Press Button 'C' (fig.14)

Water will start to flow.

The **'Power'** light will illuminate.

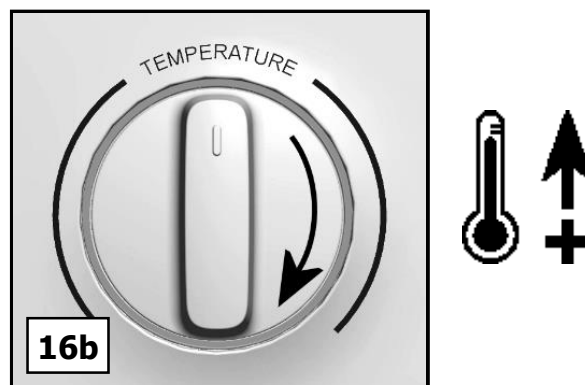
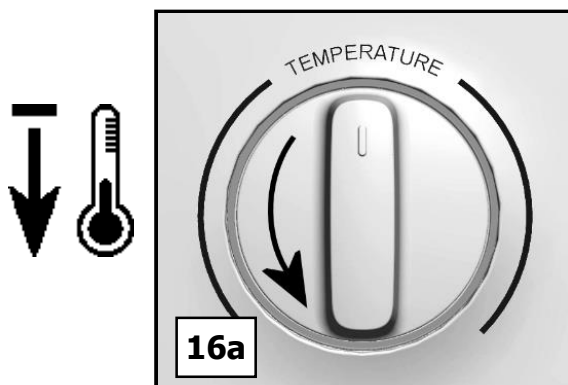
Set your desired power setting **Knob 'A'**, this is normally **'HIGH'** (**fig.15**).



It is recommended that you do not wholly enter the water spray during this period, especially if the shower has just been used.

If the water is not at your desired showering temperature, turn **Knob 'B'** a **small amount** until the desired temperature is achieved.

Turn anti-clockwise for cooler (fig.16a) and Turn clockwise for warmer (fig.16b).



Allow about 20 seconds for the temperature of the water to stabilise.

Final adjustment may be anywhere on the scale.

If after turning fully anti-clockwise, water is still too hot, adjust Knob 'A' to **'ECO'** setting and re-adjust as previously detailed.

Water flow will be reduced on this setting.

TO STOP THE SHOWER

Press Button 'C' to Stop the shower (**fig.17**).

Water will cease to flow and '**Power**' light will go out.

Expressions Revive-Plus Models Please note that the water will continue to flow for around six seconds to cool the shower for the next user.

Switch off the electricity at the ceiling switch or local isolator.



Once a temperature setting to your liking has been achieved, Knob 'B' will rarely need adjusting. You must however take into account required adjustments for variations of incoming mains water temperature between summer and winter (see 'Advice to users' on page.2).

The '**ECO**' setting of Knob 'A' reduces the power used by the shower giving a cooler shower or the option of reduced water flow.

This option is mainly for summer usage and if this is used then Knob 'B', must be re-adjusted.

The '**COLD**' setting of Knob 'A' will supply water without any heating.

During normal operation, if an overheated water temperature is sensed then the heating elements will be switched off.

The '**Power**' light will remain illuminated and water will continue to flow and cool down before the heater switches back on again as the heater automatically resets itself when water has been run through the shower for a few seconds.

ADJUSTING THE SHOWER HANDSET

To enhance your shower experience your shower has a multi-spray pattern handset and these patterns can be adjusted by simply rotating the sprayplate. Each mode is identified by a 'click'.

WARNING:

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

DO NOT OPERATE THE SHOWER IF WATER IS DISCHARGED FROM THE PRESSURE RELIEF VALVE.

MAINTENANCE IS REQUIRED BEFORE IT CAN BE USED AGAIN.

CONSIDERATION SHOULD BE GIVEN TO SUPERVISING THE YOUNG, ELDERLY AND THE INFIRM WHILST THEY USE THIS SHOWER.

HOW TO MAINTAIN YOUR SHOWER

It is recommended that the shower unit and accessories be cleaned using a soft cloth and that the use of abrasive or solvent based cleaning fluid be avoided, especially on any plated finishes.

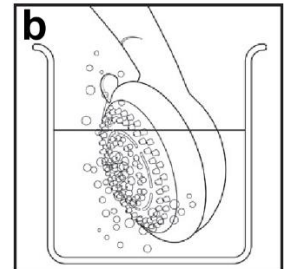
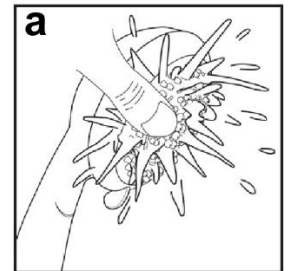
We recommend that before any cleaning, the isolating switch be turned off, thus avoiding accidentally switching on the shower.

All water contains particles of lime-scale, which build up in the shower handset and unit reducing the performance.

It is therefore important to clean the shower handset by simply rubbing the rubber nozzles, or soaking in a proprietary lime-scale remover and rinsing thoroughly before use.

NOTE:

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



WARNING:

YOU MUST REGULARLY INSPECT THE SHOWER HOSE FOR WEAR AND DAMAGE AND REPLACE IF NECESSARY, OR EVERY 2 YEARS, WITH OUR APPROVED PART.

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

YOU MUST REGULARLY INSPECT THE HANDSET FOR WEAR AND DAMAGE AND REPLACE IF NECESSARY, WITH OUR APPROVED PART.

CLEANING THE FILTER

It is recommended that the filter is periodically cleaned in order to maintain the performance of the shower. It is essential that this operation is carried out by a competent person.

WARNING!

SWITCH OFF WATER SUPPLY AT THE MAINS BEFORE REMOVING FILTER.

The inlet filter is situated inside the water inlet fitting (**fig.19**).

To gain access there is **no need** to remove the front cover and backplate lower section. Unscrew the filter cap on the water inlet fitting (**fig.18**).

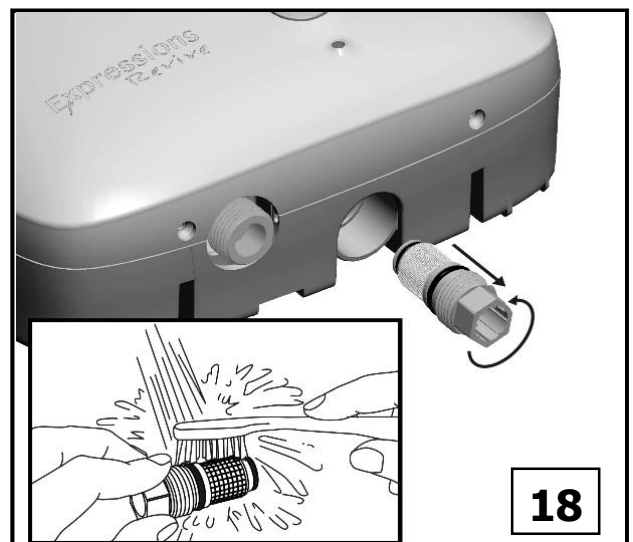
Remove the filter cap and flush with clean water and then replace.

When cleaning the filter, **DO NOT** use a sharp object, as it will cause damage.

It is preferable to use an old toothbrush or similar

The metal filter mesh is best to be cleaned when it is in the cap as shown.

Take care to re-position the filter correctly.



HOW YOUR SHOWER WORKS

1. Water is heated instantaneously as it flows over the heating elements in the heat exchanger (**fig.19**).
2. The heaters are only switched on when sufficient water is flowing.
This is done automatically with a switch which works on water pressure.
3. The water is turned on and off by the solenoid valve built into the shower.
This is switched on when Button 'C' is pressed.
4. The flow of water is automatically held at the level set by the user even though the supply pressure may vary (see 'Advice to Users').
5. If the water supply falls below a set limit, the pressure switch will operate and switch off the power to the elements, resulting in a cold shower (see 'Advice to Users' on page.2).
6. **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 light will go out.
7. The pressure relief device is to safeguard against abnormal pressure conditions, and provides a level of appliance protection should an excessive build up of pressure occur within the shower.

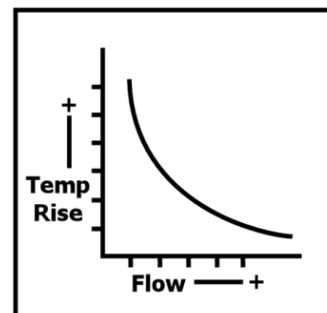
Effect of Seasonal Incoming Water Temperature Changes

The required water temperature is achieved by adjusting the rate of water flow.
The diagram shows the principle involved in relating temperature rise to flow rate.
The higher the water rate the lower the temperature 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 'ECO' power setting may give adequate hot water.



Effect of Other Water Devices on Incoming Water Supply

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.

Your shower requires a minimum running supply pressure of 100kPa (1.0 bar, 15 psi) at a minimum flow rate of 8 litres/minute (*9 litres/minute for 9.5kW*).

At pressures above 100kPa (1.0 bar, 15 psi) at a minimum flow rate of 8 litres/minute. (*9 litres/minute for 9.5kW*), it will minimise temperature fluctuations as detailed above.

If the water pressure falls below 100kPa (1.0 bar, 15 psi) at a minimum flow rate of 8 litres/minute, (*9 litres/minute for 9.5kW*), it is likely that the pressure switch will turn off the power to the heating elements, resulting in a cold shower.

WHAT TO DO IF THINGS GO WRONG (1)

SELF HELP

If the shower is not working satisfactorily, make the following checks before calling out the installer. Any one of these adjustments could restore the performance.

<p>Shower cycles from HOT to COLD</p>	<p>The shower temperature is set too hot causing the thermal cut-out (safety device) to operate. Turn Knob 'B' anti-clockwise to increase water flow. Then slowly increase the water temperature by turning Knob 'B' clockwise until a comfortable showering temperature has been reached. You MUST WAIT approximately 20 seconds for each adjustment to affect the water temperature. 'ECO' setting may need to be selected.</p>
<p>Water too HOT</p>	<p>Increase water flow by adjusting Knob 'B' anti-clockwise. 'ECO' setting may need to be selected. Increase pressure to water supply. Fully open service valve/stop cock. Check hose is not kinked restricting the water flow. Clean handset. Check and clean filter if necessary.</p>
<p>Water too COLD</p>	<p>Decrease water flow by adjusting Knob 'B' clockwise. 'HIGH' setting may need to be selected.</p>
<p>Water takes longer to heat up</p>	<p>Thermal cut-out has operated after previous use (automatically resets when unit cools down). 'HIGH' setting may need to be selected.</p>
<p>Water goes cold whilst using shower</p>	<p>Check water pressure has not fallen so far as to let the pressure switch cut out, e.g. another tap drawing water off.</p>
<p>Poor Spray</p>	<p>Clean the inlet filter. Clean the shower handset.</p>
<p>Water continues to flow when button 'C' pressed</p>	<p>This is normal on the <i>Expressions Revive-Plus Models</i>. The shower includes a shutdown feature that means water will continue to flow for around 6 seconds after Button 'C' is pressed.</p>
<p>Broken parts</p>	<p>Please contact our after sales service department (see page.17).</p>

WHAT TO DO IF THINGS GO WRONG (2)

PROFESSIONAL SERVICE

If the previous 'Self Help' checks fail to restore the performance, you should seek professional help. The person who installed the shower is probably the best one to investigate and correct 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 LOCAL ISOLATOR BEFORE REMOVING THE COVER TO MAKE CHECKS.

Water too HOT	Water flow restricted by blockage in filter housing. Switch off water, remove filter housing check and clean metal inlet filter.
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. <i>Expressions Revive-Plus model only: Check circuit through relay</i>
No water flow control	Undo headworks of stabiliser valve Check stabiliser is in place and remove any debris in valve.
Water discharge from pressure relief valve	Check for cause of high pressure and remove it. Blockage on outlet e.g. blocked shower handset. Replace the pressure relief device.
Water does not flow when button 'C' is pressed.	Check circuit through solenoid coil & switch. If defective then replace. <i>Expressions Revive-Plus model only: Check phased shutdown PCB. If defective then replace.</i> Power supply not reaching shower.

AFTER SALES SERVICE

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

Please call our technical team on: 0844 372 7766

Or alternatively email us on: Service.request@redringxpelair.com

Remember to quote the exact type of shower, as written on the front of the shower and on this leaflet. The model and serial number are located on the bottom face of the shower. Make a note of those numbers here, and be sure to quote them if you call for advice.

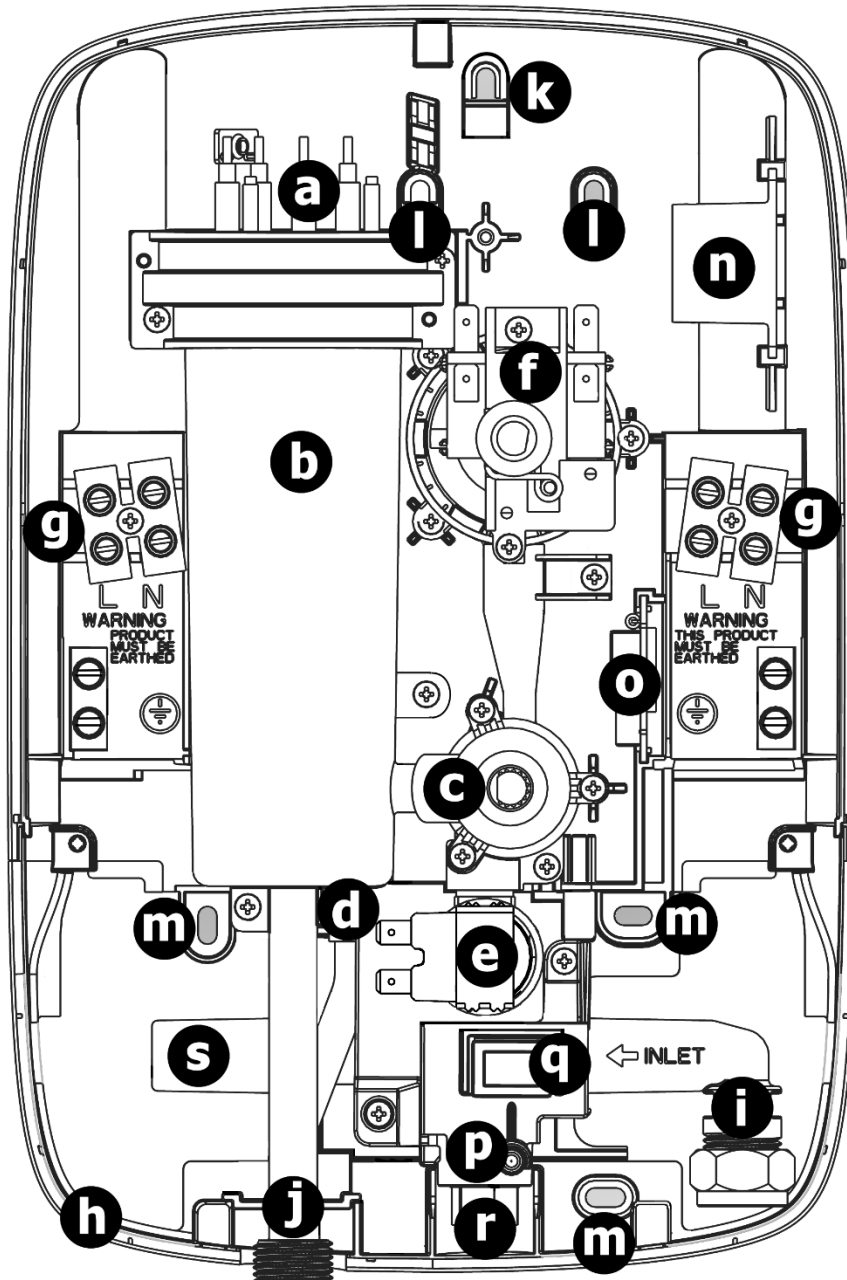
Model Number: 5356

Serial Number:

NOTE: You may be charged for a service call if you do not have the serial number.

MAIN SHOWER COMPONENTS

INTERNAL WIRING NOT SHOWN FOR REASONS OF CLARITY



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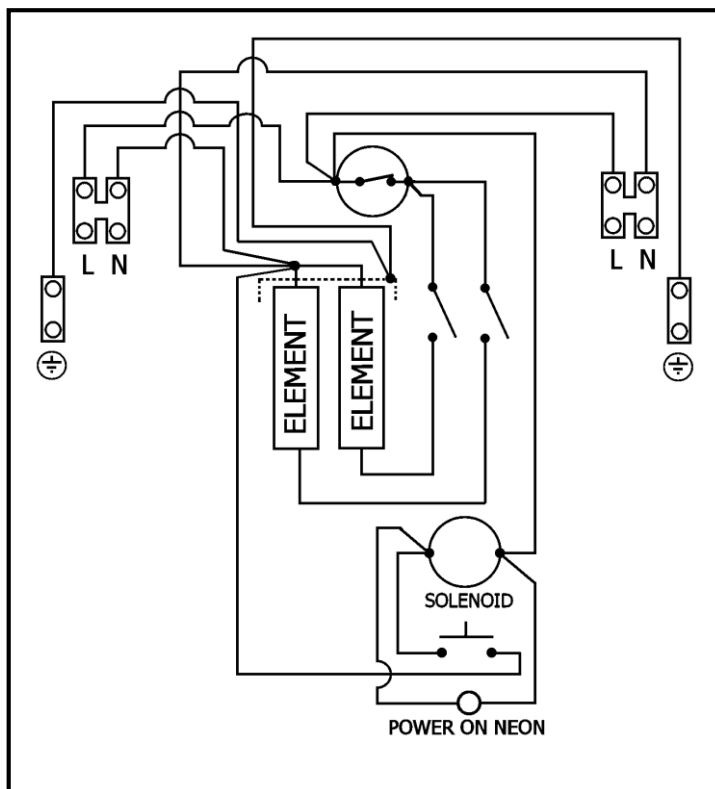
- | | |
|---------------------------------|--|
| a) Thermal Cut-Out | j) Water Outlet |
| b) Heat Exchanger | k) Wall Fixing Key-Hole Slot |
| c) Flow Valve | l) Alternative key-Hole slot |
| d) Pressure Relief Device | m) Wall Fixing Slot |
| e) On/Off Solenoid Valve | n) Relay (<i>Expressions Revive-Plus only</i>) |
| f) Pressure Switch | o) Timer PCB (<i>Expressions Revive-Plus only</i>) |
| g) Terminal Block x 2 | p) Power on light |
| h) Detachable Backplate Section | q) Start / Stop switch |
| i) Water Inlet | r) Inlet filter |

COMMON SPARE PARTS

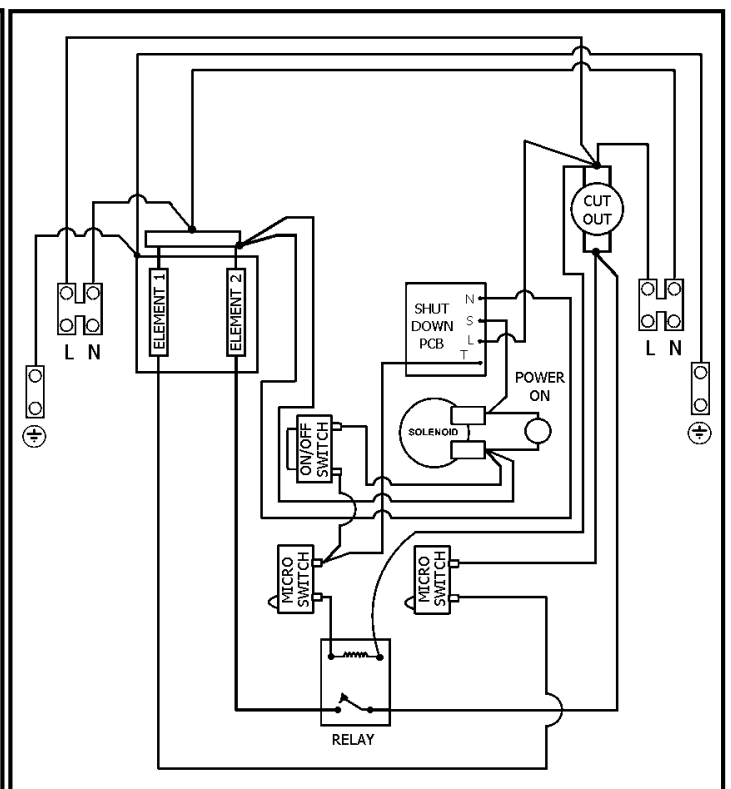
Please Note:- The fitting of Spare Parts must be supervised by a suitably qualified person.

Front Cover Revive	Cat No. 93672174	Thermal Cut-Out	Cat No. 93672109
Front Cover Revive-Plus	Cat No. 93672175	Pressure Switch Assembly	Cat No. 93672124
Heat Exchanger (7.2kW)	Cat No. 93672122	Terminal Block Set	Cat No. 93672128
Heat Exchanger (8.5kW)	Cat No. 93672102	End Cap c/w Metal Clip	Cat No. 93672178
Heat Exchanger (9.5kW)	Cat No. 93672103	Elbow c/w Metal Clip	Cat No. 93672179
Heat Exchanger Vessel	Cat No. 93672183	Metal Clip Set	Cat No. 93672180
Solenoid Valve	Cat No. 93672176	6-Mode Handset	Cat No. 93672159
Start / Stop Switch	Cat No. 93590713	Chrome Shower Hose	Cat No. 93672119
Flow Valve Top Assembly	Cat No. 93672105	Ø25mm Hose Retainer	Cat No. 93672163
Tank Clip	Cat No. 93672106	Ø25mm Height Adjuster	Cat No. 93672161
Pressure Relief Device	Cat No. 93672107	Ø25mm Riser Rail Tube	Cat No. 93672158
Heat Exchanger 'O'-Rings	Cat No. 93672108	Ø25mm Riser Rail Brackets	Cat No. 93672160
Detachable Lower Section	Cat No. 93672177	Ø25mm Clear Soap-Dish	Cat No. 93672162

CIRCUIT DIAGRAMS



Expressions Revive Showers



Expressions Revive-Plus Showers

GUARANTEE

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

In the unlikely event of a product breakdown during the guarantee period you should contact our Service and Repair Helpline who will be able to assist with the repair and advise of the best course of action to be taken.

Please DO NOT remove the product prior to making this call as this may invalidate your guarantee.

Service and Repair Tel: 0844 372 7766 or email: technical.services@redringxpelair.com

We guarantee this product **for domestic use only**, for a 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 product has been correctly installed and commissioned in accordance with our instructions and is being used on the supply circuit or voltage printed on the rating plate.
- b) The product has been used in accordance with these instructions and has not been tampered with or otherwise subject to misuse, neglect or accident.
- c) The product 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 under the terms of this guarantee.
- e) The guarantee period for products used in **light** commercial applications will be limited to 12 months. We **DO NOT** recommend these products be used in heavy or unsupervised commercial applications.
- f) For the service work to be undertaken free of charge, the work must only be undertaken by Redring Xpelair Group Limited, 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, improper use or lack of maintenance, including the build-up of limescale.

It is the responsibility of the installer to check that the installation parameters meet the requirements of the products, 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.

A charge will be made where a call under the terms of the guarantee has been booked and a failure was not product related, or an engineer arrives and is not able to gain access.

We make no guarantees as to response time 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 a 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.

This 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.

Newcombe House, Newcombe Way,

Orton Southgate, Peterborough, PE2 6SE

Tel: +44 (0) 844 372 7761 / Fax: +44 (0) 844 372 7762

Technical Service Tel: +44 (0) 844 372 7766

Technical Service Email: Service.request@redringxpelair.com

 **RXG**
Redring Xpelair

(A4 Leaflet No. 556-2094-01a)