REDRING

active 300

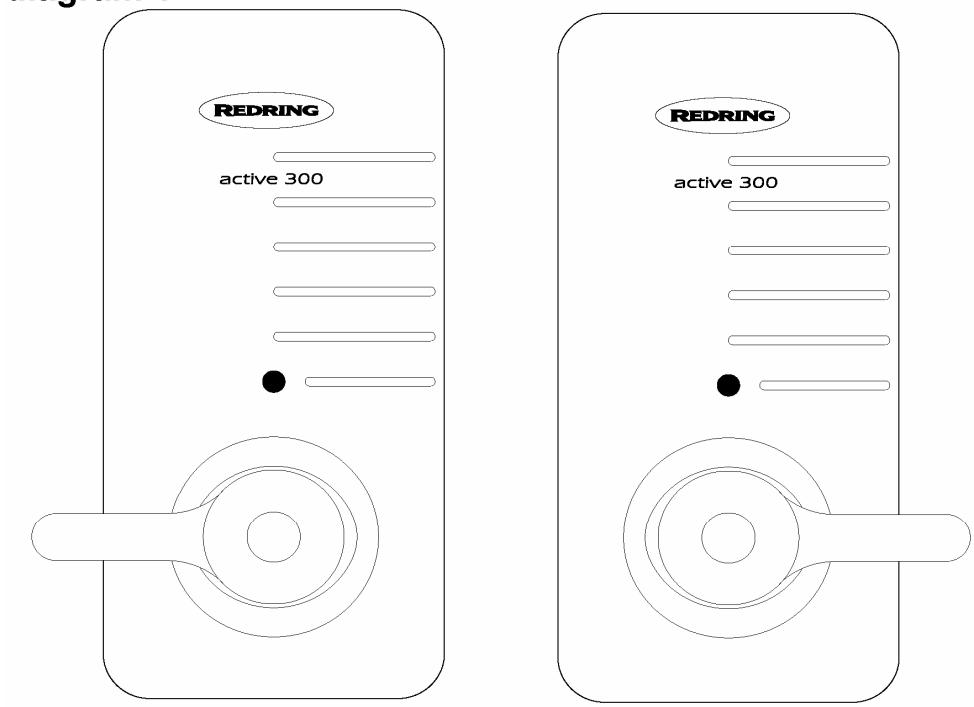
SHOWER HANDBOOK

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

Thank you for choosing a quality Redring product manufactured in Peterborough, England

How to use your Redring Shower

diagram 1



Knob in Stop Position | **Knob in Normal Running Position**

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

2. Turn the knob anti-clockwise to “6 o’clock” on the scale.
   Allow about 20 seconds for the temperature of the water to stabilise.

3a. If the water is **too hot**, then increase the flow of water by **turning knob anti-clockwise** in the direction of the “blue arrows”.
   Wait a few moments for the temperature of the water to stabilise.
   Repeat turning anti-clockwise if necessary until you get the water temperature of your liking.

3b. If the water **is too cold, turn knob clockwise** in the direction of the “red arrows” and continue as necessary until you get the water temperature of your liking.
   The final adjustment may be anywhere on the scale.

3c. Basically turning the knob **clockwise in the direction of the “red arrows” increases** the water temperature, whilst turning **anti-clockwise in the direction of the “blue arrows” decreases** the water temperature.

4. The neon indicator on the front of the shower shows when the heating elements are working.

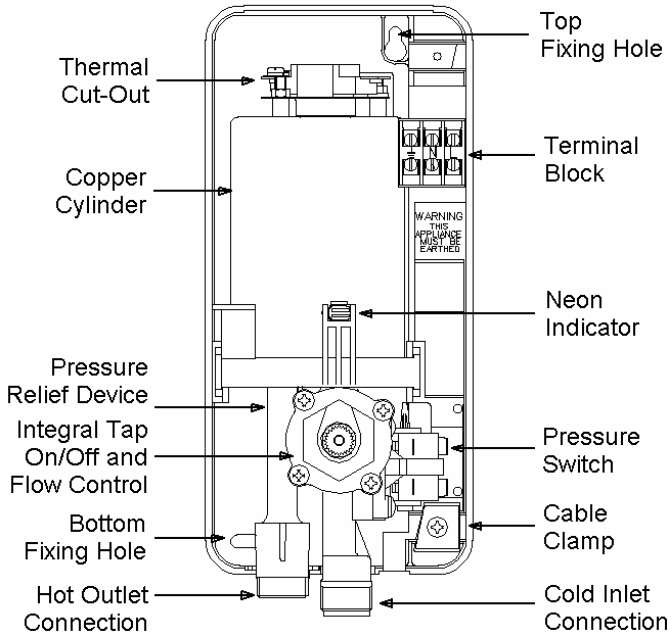
5. When you have finished showering, turn the knob clockwise to the **“stop”** position.

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

How your Redring Shower Works

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

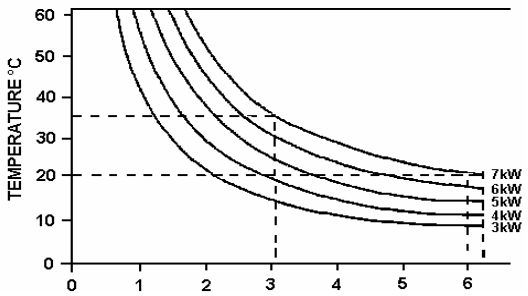
diagram 2



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

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°C to 20°C.
   This means that in the winter, flow rate will be less than in the summer to achieve the same outlet temperature.

diagram 3



3. The heating elements 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.

4. The flow of water is automatically held at the level set by the user even though the supply pressure may vary. This is done with a stailiser built into the flow control valve behind the knob.

5. 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.

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.

7. A neon light is fitted to show when the heating elements is working.

8. The pressure relief device is to safeguard against extreme abuse conditions.

TO MAINTAIN THE SHOWERS PERFORMANCE,
YOU MUST CLEAN THE SHOWER HANDSET REGULARLY

All water contains particles of lime, 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 when required.

Installation Instructions

ALL WIRING AND INSTALLATION MUST BE SUPERVISED BY A QUALIFIED ELECTRICIAN

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

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

a. Fixing the unit to the wall
b. Plumbing
c. Electrical connections

a. Fixing the unit to the wall

1. Position the handset/holder bracket at the height recommended in diagram 4 and mark its position

2. Position the heater so that the top of the unit is horizontal and level with, **NOT 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, 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

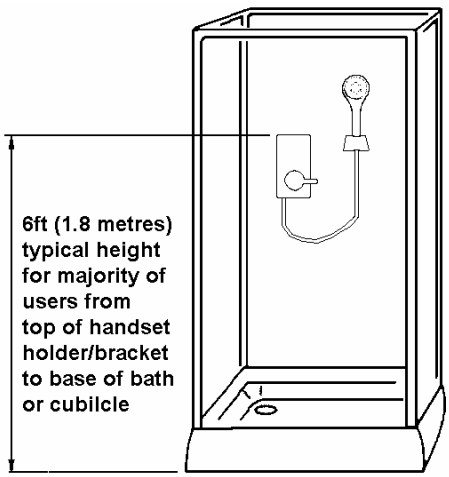
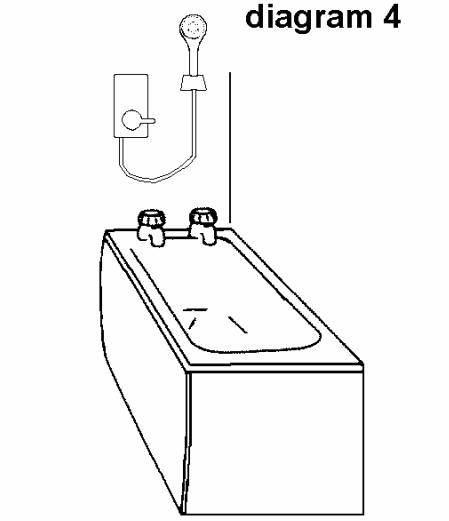


diagram 4



4. To enable the shower to be fitted in any convenient position, removable cable entry covers are positioned at the top and bottom of the unit.
   These can be cut out and the cable routed through the hole provided.
   Only the **top and rear** entries can be used with 10mm² cable.
   Remove the relevant recess in the backplate with a sharp knife.
   Extreme care must be undertaken at this stage.

5. Remove the front cover of the unit by undoing the retaining screw at the bottom.
   A “keyhole” slot is provided on the top hole to assist installation, and should be marked and drilled first to take the wall plugs and No.8 screws provided.

4. 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 unit 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 unit, ensure that pipe work is flushed out.

1. 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.

2. The heater can be fed from a header tank provided this has a minimum head of 7 metres (23ft).

3. Ø15mm copper, chrome plated or stainless steel pipe should be used.
   Ensure that there are no burrs on the pipe.
   In multiple shower installations, correct pipe work sizes should be calculated to maintain adequate flow to each unit.

4. 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.

5. With stop valve connected, push on the knob to operate the tap, **flush the pipe work through to remove the particles etc**, before connecting the shower hose and handset and making the final connection to the units.
   Blockage in the water ways will prevent the heater working properly.
   Turn knob clockwise to stop water flow then remove.

6. When attaching the shower hose to the hot outlet connection (see diagram 2) **do not overtighten** as this will damage the outlet.

7. The shower is designed to have an open outlet and should only be used with “Redring” recommended fittings.

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 installation must be in accordance with the current BS.7671 (IEE Wiring Regulations),
and Part “P” of the Building Regulations.

1. 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.

Rating	Cable Sizes	Fuse / MCB	Cable Length
7.2 / 6.6kW 240 / 230V	4.0mm² 6.0mm²	32A Type B MCB	21m Max. 35m Max.
	6.0mm² 10.0mm²	40A Type B MCB	27m Max. 45m Max.

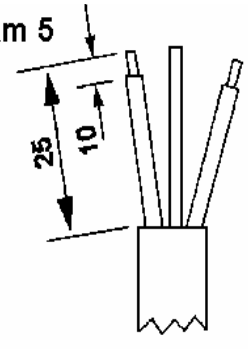
   Uprate the cable if it runs in thermal insulation in a loft,
   or for a longer distance.

2. A means for disconnection in all poles must be incorporated in the fixed wiring in accordance with the wiring rules.

3. Cut back cable as in diagram 5.

4. WARNING: THIS APPLIANCE MUST BE EARTHED

diagram 5



Cable Stripback

5. Unscrew the cable clamp to allow the cable to enter and 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.

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

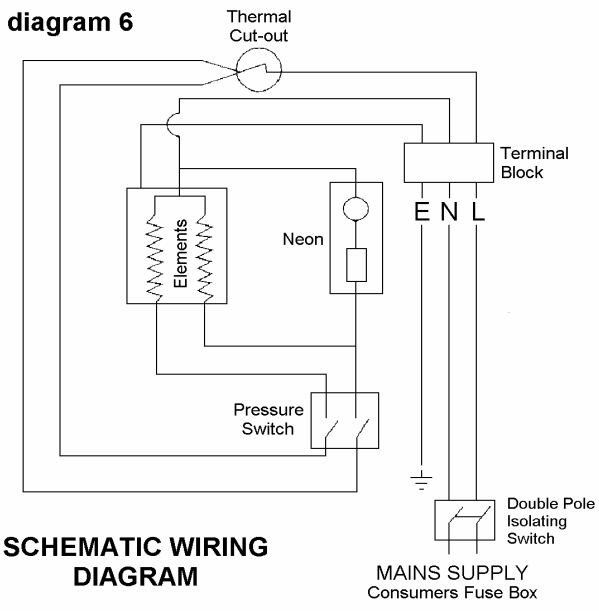
Ensure that the cable does not touch the copper cylinder.

6. Hook on front cover and fasten with screw on the underside.
   Push on knob with the lever pointing to the left and horizontal (see diagram 1 “stop” position).
   Fasten the knob using the retaining screw and push the insert in position (it will only fit one way) provided.

7. Check the operation of the unit:
   a. That the water gets to a satisfactory temperature.
   b. Water flow can be adjusted and stopped by turning knob.
   c. Check again for leaks

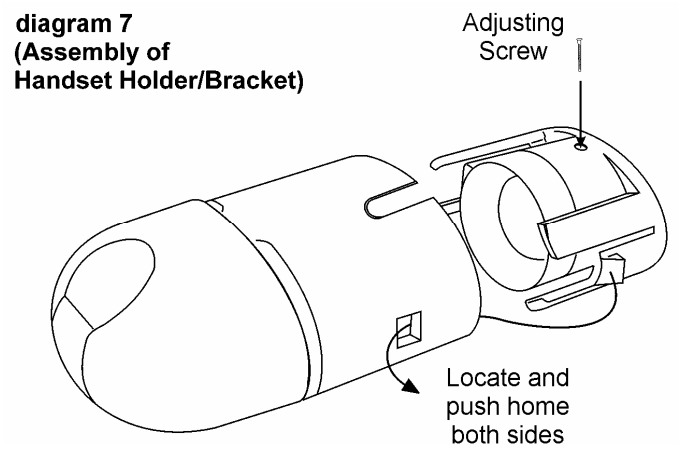
8. DEMONSTRATE OPERATION TO USER AND LEAVE THIS BOOKLET WITH THEM

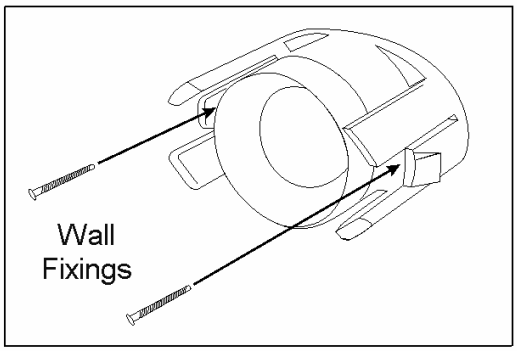
diagram 6



SCHEMATIC WIRING DIAGRAM

diagram 7
(Assembly of Handset Holder/Bracket)





How to maintain your Redring Shower

It is recommend that the shower unit, 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.

Accessories

WRAS listed Water Isolating Valve	Catalogue No. 93-792452
White 2 metre Shower Hose	Catalogue No. 83-792578
1 metre Riser Rail	Catalogue No. 83-595313
Curtain and Rail Pack	Catalogue No. 83-792802
Curtain and Rail Pack with Non-Slip Mat	Catalogue No. 83-792801

Accessories can be supplied against any Credit or Debit cards from Redring Sales Hotline 08709 000420

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) The shower cycles from HOT to COLD	The temperature is set too hot causing the thermal cut-out (safety device) to operate. Turn knob anti-clockwise in direction of the “blue arrows” to increase water flow. Slowly increase the water temperature by turning knob clockwise in direction of the “red arrows” until a comfortable showering temperature has been reached. You MUST WAIT approx’ 20 seconds for each adjustment to affect the water temperature.
b) Water too HOT	Increase water flow by turning knob anti-clockwise in direction of the “blue arrows”. Increase pressure to water supply e.g. fully open service valve or stop-cock.
c) Water too COLD	Check that the power is on by the neon being illuminated. If not, turn knob anti-clockwise until neon lights. Decrease water flow by turning knob clockwise in direction of the “red arrows”.
d) Water takes longer to heat up	Thermal cut-out has operated after previous use. Will automatically reset when unit cools down.
e) Shower turns itself on	Lower shower handset and/or handset holder/bracket
f) Water goes cold while using shower	Check power is on by neon light. Check water pressure has not fallen so far as to let pressure switch cut out, e.g. Another tap drawing water off.
g) Broken parts	Please contact our spares department on 08709 000420. Instructions are provided

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 FRONT COVER CHECKS

a) Water too COLD	Check circuit through thermal cut-out. Check circuit through microswitch(es) on the pressure switch. Check each element circuit. Check tightness of electrical connections.
b) No control over water	Undo headworks of stabiliser valve. Check stabiliser is in place and remove any debris in valve.
c) Water leaks from tube at base	Pressure relief device blown. Check for cause of high pressure and remove it. Replace the pressure relief disc (not covered by guarantee).

Redring After Sales Service

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

RING 08709 000430

Some parts can be supplied against Credit or Debit cards.

RING 08709 000420

Remember to quote the exact type of unit, as written on the unit front 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.

GUARANTEE

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

We, Applied Energy Products Limited, guarantee this product **for domestic use only,** for the period of 36 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 Applied Energy Products 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 build-up of limescale. It is the responsibilty of the installer to check that the installation perameters 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 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.

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.

* Months 25 to 36 of your free guarantee are conditional on the registration of your product at the time of purchase. Product registration helps us to identify when products are installed, and in what location in order to facilitate a more efficient response to your requests.

Full details of terms and conditions are available on request from: -

APPLIED ENERGY PRODUCTS LIMITED
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