

# GUARANTEE

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

We, Applied Energy Products Limited, guarantee this product for domestic use only, for the period of 12 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) 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.
- f) 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 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 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.

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

**Creda**

APPLIED ENERGY PRODUCTS LIMITED  
MORLEY WAY, PETERBOROUGH PE2 9JJ  
TEL +44 (0) 1733 456789 / FAX: +44 (0) 1733 310600  
Website: [www.creda-showers.co.uk](http://www.creda-showers.co.uk)

Leaflet No. 559-2326-43A

**Creda**

# 8500DL

## SHOWER HANDBOOK

### IMPORTANT:

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



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

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**To ensure a safe and guaranteed installation, we recommend it is carried out or checked by a suitably qualified person.**

**Installation Instructions**

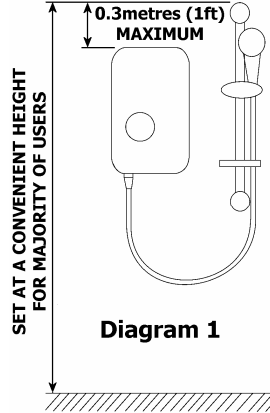
**WARNING: ALL WIRING AND INSTALLATION MUST BE SUPERVISED BY A SUITABLY QUALIFIED PERSON. WARNING: DO NOT INSTALL THIS SHOWER IN A ROOM WHERE IT MAY BE SUBJECT TO FREEZING.**

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

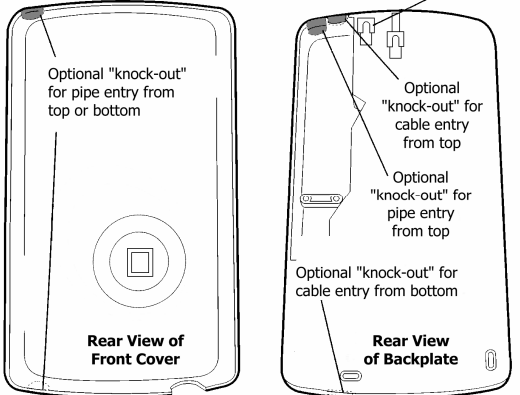
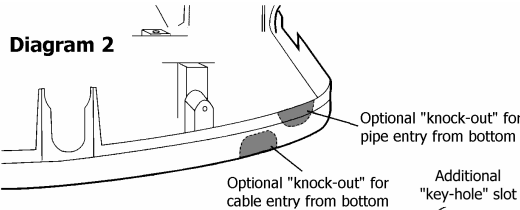
- a. Fixing the shower to the wall    b. Plumbing    c. Electrical connections

**a. Fixing the shower to the wall**

1. Position the riser rail at a convenient height for majority of users as detailed in Diagram 1 and mark its position.
2. Position the heater so that the top of the unit is horizontal and level with, or up to 0.3 metres (1ft) maximum below the top of the riser rail. Choose a flat piece of wall to avoid the possibility of distorting the backplate, as this may make the front cover a poor fit.
3. Adjust the position to get the most convenient arrangement taking the following into account.
  - 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 6), then a vacuum breaker must be fitted.



**Diagram 1**

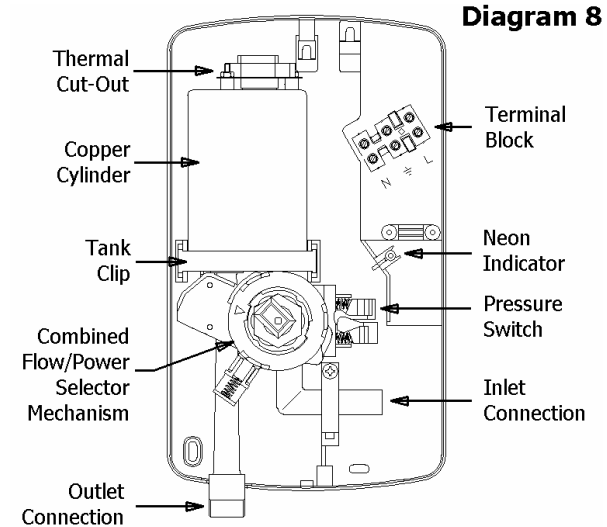


4. Fix the riser rail with the screws provided. The fixing holes at the base of the brackets will be disclosed by removing the plastic fronts. Assemble as shown in Diagram 6.
5. Decide the position of the electrical cable to the unit. If top or bottom entry is chosen, cut away the walls in the backplate as shown in Diagram 2.
6. Decide the position of cold water pipe into the unit. Cut away the relevant walls of the backplate as shown in Diagram 2. If rear, please read the section on plumbing.
7. 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 (see Diagram 2). 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.

**How your Creda Shower Works**

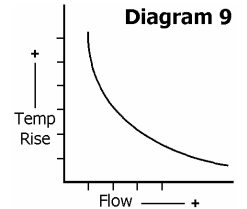
Your shower is designed for convenience, economy and safety of use.

1. Water is heated instantaneously as it flows over the heating elements in the copper cylinder (Diagram 8).



**Diagram 8**

2. The required water temperature is achieved by adjusting the rate of water flow. Diagram 9 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 "MEDIUM" or "LOW" 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 a tap that is 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 20 to 30 seconds.
8. The pressure relief device is to safeguard against abnormal pressure conditions, and provides a level of appliance protection should an excessive build of pressure occur within the shower.



**Diagram 9**

## What to do if things go wrong

### 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.

The shower cycles from HOT to COLD	The shower temperature is set too hot causing the thermal cut-out (safety device) to operate. Turn inner knob "B" anti-clockwise in the direction of the "blue arrow" to increase water flow. "MEDIUM ●" setting may need to be selected. Slowly increase the water temperature by turning inner knob "B" clockwise until a comfortable showering temperature has been reached. You MUST WAIT approx' 20 seconds for each adjustment to affect the water temperature.
Water too HOT	Increase water flow by adjusting inner knob "B" anti-clockwise (direction of "blue arrow"). Clean shower handset. Switch power to "MEDIUM ●" or "LOW ●" setting. Increase pressure to water supply e.g. fully open service valve or stop cock. Check hose is not kinked restricting the water flow.
Water too COLD	Decrease water flow by adjusting inner knob "B" clockwise (direction of "red arrow"). Switch power to "HIGH ●" setting.
Spray pattern poor	Clean the shower handset.
Water takes longer to heat up	Thermal cut-out has operated after previous use. Will automatically reset when unit cools down. Switch power to "HIGH ●" setting.
Water goes cold while using shower	Check power is on by neon indicator being illuminated. 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 shower handset on the riser rail.
Broken parts	Please contact our spares department on 08709 000420 (UK Only).

### 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 ISOLATOR BEFORE REMOVING THE COVER TO MAKE CHECKS**

Water too HOT	Insufficient water supply. Check the water pressure meets the unit requirements (see note 11 in "How to Use Your Creda Shower")
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.
No control over water flow	Undo headworks of stabiliser valve. Check stabiliser is in place and remove any debris in valve.
Water discharges from pressure relief valve	Check for cause of high pressure and remove it. Blockage on outlet e.g. blocked showerhead. Replace the pressure relief disc (not covered by guarantee).

### Creda After Sales Service

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

**RING 0870 9000 430 (UK ONLY)**

Some spare parts (see later section) can be supplied against Credit or Debit cards.

**RING 0870 9000 420 (UK ONLY)**

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:** 53- \_\_\_\_\_ **Serial Number:** \_\_\_\_\_

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

### 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).

**WARNING: ENSURE PIPE WORK IS FLUSHED OUT BEFORE CONNECTING TO THE SHOWER.**

- 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.
- The heater can be fed from a header tank provided this has a minimum head of 7 metres (23ft).
- The water inlet connection supplied is a plain Ø15mm straight shank/shaft. This connector will accept either a Ø15mm compression elbow or a Ø15mm "push-on elbow". If rear entry is required, an additional "Yorkshire" elbow (soldered type) for fitting into the rear channel is required. Ø15mm copper or stainless steel pipe should be used. In multiple installations, correct pipe work sizes should be calculated to maintain adequate flow to each shower.
- It is permissible to use a WRAS (Water Regulations Advisory Scheme) approved sealant sparingly whilst avoiding excess finding its way into the shower operating parts.
- With isolating 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) will prevent the heater working properly. *Note: You may be charged for a service call if it is due to incorrect installation.*
- The shower is designed to have an open outlet and should only be used with "Creda" recommended fittings. Do not connect the handset until after the shower front cover is 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) and "Part P" of the Building 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.

**AS A GUIDE ONLY (\* Only applies if external earth impedance is less than 0.35 Ohms)**

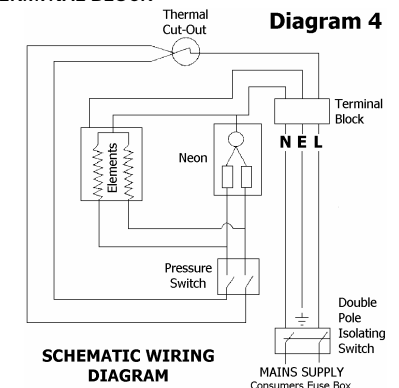
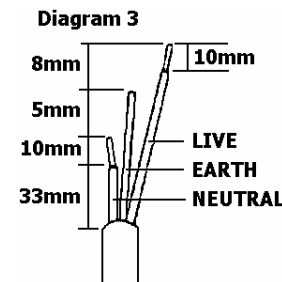
Rating	Cable Sizes	Fuse / MCB	Cable Length
8.5 / 7.8kW 240 / 230V	6.0mm <sup>2</sup> 10.0mm <sup>2</sup>	40A Type B MCB	27m Max. 45m Max.
	6.0mm <sup>2</sup> 10.0mm <sup>2</sup>	45A BS.1361 fuse	12m Max.* 21m Max.*

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

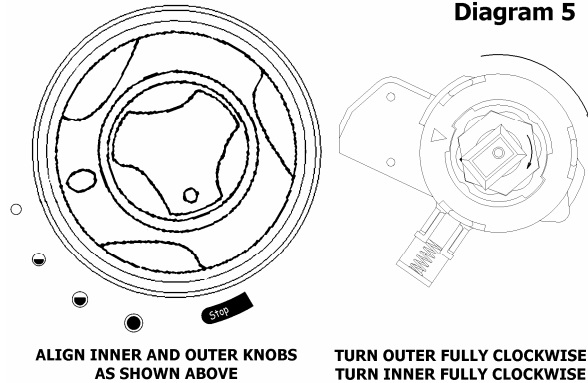
- A means for disconnection in all poles **must be** incorporated in the fixed wiring in accordance with the wiring rules. We recommend ceiling switches.
- Cut back cable as in Diagram 3. Connect cable to terminal block making sure that all the retaining screws are **VERY tight** and that no cable insulation 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**

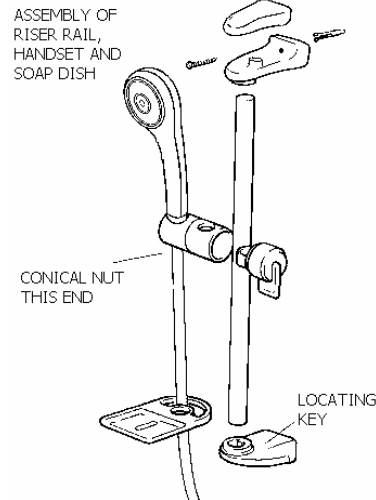


5. Re-fit the front cover (see Diagram 5).
  - a. Rotate outer drive wheel fully clockwise and the inner square drive fully clockwise.
  - b. On the front cover rotate the inner and outer control knobs until they are aligned.
  - c. Push the front cover onto the backplate, small adjustments in the control knob positions may be necessary to achieve final alignment.
- c. 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 5 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 4 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 USERS

**Diagram 6**

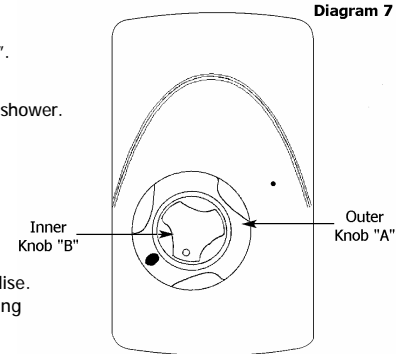


## How to use your Creda Shower

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" indicated by a "●".  
There are also options for a "MEDIUM ●", "LOW ●" or "COLD ○" shower.

**Example:**  
Turn outer knob "A" to "HIGH ●" and turn inner knob "B" anti-clockwise at least until the neon light comes on.
3. The water will flow and the neon indicator 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. It is recommended that you do not wholly enter the water spray during this period, even if the shower has just been used.
- 5a. If the water is too hot, then increase the flow of water by turning inner knob "B" anti-clockwise in small increments in the direction of the "blue arrow". 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 in small increments in the direction of the "red arrow". 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, you can turn the shower on to that position using inner knob "B" each time. You must however take into account required adjustments for variations of incoming mains water temperature between summer and winter.
7. When you have finished showering, turn inner knob "B" clockwise to the "STOP" position. You have no need to adjust outer knob "A".  
**Switch off the electricity at the ceiling switch or local isolator.**
8. The "MEDIUM ●" and "LOW ●" 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 for summer usage and if this is used then inner knob "B" must be re-adjusted.
9. The "COLD" setting of outer knob "A" indicated by "○" 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.



## How to maintain your Creda Shower

It is recommended that the shower unit and hose etc. 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.

**WARNING: YOU MUST REGULARLY INSPECT THE SHOWER HOSE FOR WEAR AND DAMAGE. REPLACE IF NECESSARY, OR EVERY TWO YEARS, WITH AN APPROVED PART.**

**WARNING: IN ORDER TO MAINTAIN THE PERFORMANCE OF YOUR SHOWER, 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.

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

## Additional Accessories

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

White 2 metre Shower Hose	Cat No. 83792578	Chrome 1.25 metre Shower Hose	Cat No. 93797641
WRAS Water Isolating Valve	Cat No. 93792452	Curtain and Rail Pack	Cat No. 83792802
Curtain and Rail Pack with Non-Slip Mat	Cat No. 83792801		

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

*This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.*

*Children should be supervised to ensure that they do not play with the appliance.*