



**Eco-Response** from Creda





## Introducing the **Eco-Response** from Creda

Challenging accepted norms the Eco-Response from Creda provides economical, highly responsive and stylish electric heating for the 21st century.

The requirements of Part L of the building regulations from April 2006 are exceeded with the Eco-Response. Leading edge technology improves energy efficiency and latest SAP 2005 scores, while offering warmth when you need it, where you need it, whether in a single room or across the house.

Combining comfort, economy, response and controllability, with the intelligent use of energy available at different times. A constant low-level of background heat prevents the fabric of the building from cooling. On demand this fast-acting appliance can raise the temperature to meet your requirements.

The ability to respond quickly but economically provides the user with the total control and peace of mind that comes from heat on demand and low running costs.

Modern, stylish and unobtrusive design ensures that Eco-Response is a welcome addition to any home. Taking up no more space than a wet radiator with all the added benefits of intelligent controls and fast response.

One-touch electronic control puts this appliance at the forefront of 21st century heating solutions. Simple intuitive controls for the modern householder complete with child locks for busy family homes.

**“Simple and quick to install”**

Simple and quick to install, pre-wired connections and fast assembly design only add to the usual low installation costs, reliability, flexibility and low-maintenance of an electric appliance.



One simple finger-tip and child proof control.



## Intelligent heating from **Creda** ▼

**Eco-Response** is challenging the norms of domestic heating in the 21st century.

- The New Creda Eco-Response exceeds Part L 2006 requirements and provides enhanced scores in the latest SAP 2005\*
- Fast response, on demand heat
- Intelligent control for energy efficiency and precise temperature setting
- One touch simple electronic control with child lock
- Intelligent management of heat requires no user intervention
- Modern, stylish and unobtrusive design
- Just 140mm deep
- Optional central programmer for system control
- Pre-wired electrical connections
- Simple and quick to install



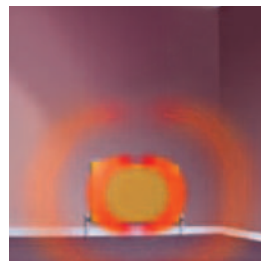
“**Eco-Response**  
provides warmth  
when you need it”

*\*See details on back page*

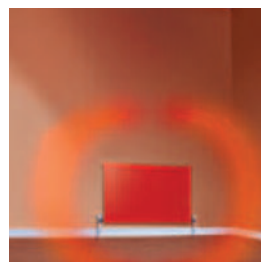
### Conventional



1. With a conventional 'wet' heating system, when heating goes off, building shell cools

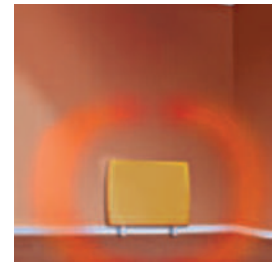


2. The building shell has to then be warmed again before room feels comfortable

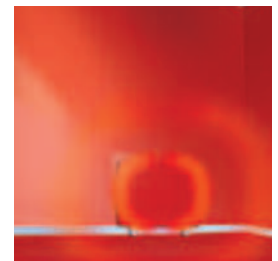


3. This takes time and energy - slow response

### Eco-Response



1. It is smarter to maintain low level background heat



2. The room temperature can be raised quickly and efficiently when needed



3. Economical. Responsive. Intelligent.

# Eco-Response Technical Specification

## Component Details

### Steel Components

- Unpainted parts - zinc coated steel

### Painted Parts

- White or Satin Grey RAL7035 Polyester Epoxy Powder coated Zintec or Mild Steel

### Energy Retention Cells

- High Density Bonded Magnetite

### Thermal Insulation

- Top and Sides - Carbowool 128kg/m<sup>3</sup>
- Front and Back - Microtherm G
- Base - Calcium Silicate

### Elements

- 230V/650W Mineral Filled Incoloy Sheathed Heating Element
- Cable on foil thin element fixed to front panel inner, covering the whole fascia

### Printed Circuit Boards

- Controller
- Power Enable
- Power Supply Unit

### Wiring

- Internal Wiring 40/0.25 (Silicon Insulated)
- Mains Cables supplied with heater are 1.6M in length stripped at end
- Mains Cable Storage 3 Core 2.50mm<sup>2</sup>
- Mains Cable Radiant 4 Core 0.75mm<sup>2</sup>

### Controls

#### User

- Integral user adjustable electronic room thermostat controlling film element operation. Set using the LED membrane display on top of the heater. Child lock facility

#### Input

- Electronic controller limits charge in relation to thermistor temperature. Set using the LED membrane display on top of radiator

#### Thermal Safety Devices (see table)

- Storage - Automatic reset core limit thermostat  
Manual reset over temperature cut out
- Radiant - Automatic reset thermostat limits front panel temperature  
Automatic reset thermostat over temperature protection

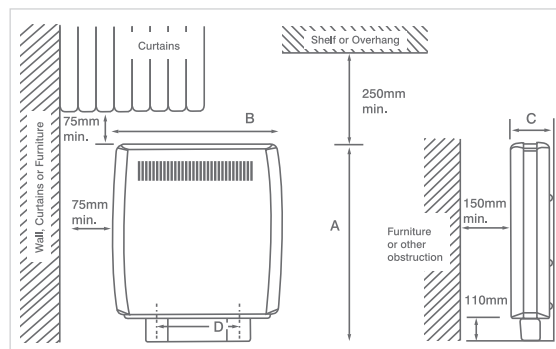
#### Plinth

- Plastic moulded feet with centre metal plate with snap fit to radiator

## Thermal Safety Devices

	Model Number		ER300	ER400	ER500
<b>Input Controls</b>	Maximum Core Temperature at Full Charge		690°C	690°C	670°C
	Auto Reset Core Limit Stat	Cut Out	82°C ±3°C	82°C ±3°C	82°C ±3°C
		Reset	62°C ±4°C	62°C ±4°C	62°C ±4°C
	Manual Reset Over Temperature	Cut Out	108°C ±3°C	108°C ±3°C	108°C ±3°C
<b>Radiant Panel</b>	Auto Reset Limit Stat	Cut Out	56°C ± 3°C	56°C ± 3°C	500 - 52°C ±3°C
		Reset	48°C ±4°C	48°C ±4°C	500 - 44°C ±4°C
	Auto Reset Over Temperature	Cut Out	65°C ±3°C	65°C ±3°C	56°C ±3°C
		Reset	35°C ±4°C	35°C ±4°C	48°C ±4°C

## Installation Dimensions



Model	Height A (inc. feet)	Width B	Depth C	Feet Position D	Weight (Installed)
ER300	712mm	600mm	130mm+10mm	295mm	65kg
ER400	712mm	830mm	130mm+10mm	523mm	94kg
ER500	712mm	1060mm	130mm+10mm	751mm	124kg

## Power Ratings

Model No.	Nominal Output	Charge Acceptance	Input Rating (Off Peak Supply)	Input Rating (Radiant Element)
ER300	0.7kW	9.1kWh	1.3kW	0.28kW
ER400	1.1kW	13.65kWh	1.95kW	0.34kW
ER500	1.5kW	18.2kWh	2.6kW	0.39kW

## Carton Dimensions

Model No.	Height	Width	Depth
ER300	689mm	722mm	178mm
ER400	689mm	950mm	178mm
ER500	689mm	1178mm	178mm

## Part L and SAP 2005

The new Creda Eco-Response has been developed to optimise performance in relation to Part L of the building regulations and achieves an improved score in the revised SAP 2005. Specifiers will benefit from the 'integrated storage/direct acting heater' category within table 4a of SAP 2005 which rewards the enhanced controllability of Eco-Response with a 100% efficiency rating, placing this leading edge technology in heating type 2 with a responsiveness weighting of 0.75



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CO16 November 05

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