

Uniclass L7522	EPIC L22
CI/SfB	(56)

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International Sales

Creda is a great British brand in every sense of the word. It is also a world leader in space heating with sales in over twenty countries world-wide. Creda has achieved this by taking into consideration global market requirements and ensuring products are developed to meet these needs, as well as developing products for specific countries and regions, taking into consideration approvals, electrical supply and climate. For further details call:

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C018 Sept 06



All Creda Heating products, unless otherwise stated, are covered by a full parts and labour guarantee for 1 year from the date of purchase, so should the product become faulty within the guarantee period, it will be replaced with a new product or repaired by our service engineers, totally free of charge.

Applied Energy Products reserve the right to alter product specification or appearance without prior notice. All finishes in the brochure are as accurate as printing processes allow.



2006/2007 Product Directory
 Heating Solutions



Creda Heating An introduction



Creda is dedicated to heating our homes and places of work. A market leader and expert in the development of electric heating products.

Creda heating products are designed to meet today's lifestyles, so attention to style as well as efficiency and economy are paramount. All our heating systems are designed to comply with Part L of the Building Regulations which focuses on reducing carbon emissions and the conservation of fuel and power. Creda advanced heating control options assist in achieving the best possible SAP ratings (SAP is the Standard Assessment Procedure for producing an energy rating for a dwelling, based on the calculated annual energy cost for space and water heating).

Pioneers in electric heating, Creda continue to lead the field with innovative and stylish products, not just in the UK, but world-wide.

Products such as Credanet II, a unique electronically controlled central heating system that is recognised by the National Home Energy Rating Scheme (NHER) as a CELECT product meeting the industry-standard of an intelligent control system, developed to enable users to regulate the heat they use.

The RF electronic panel heaters feature non-wired radio frequency transmitter capability for exceptional control, and the new Proline range of quality towel warmers with control options, designed to provide a stylish focal point in any bathroom while satisfying the demand for supplementary heat.










Not only does Creda offer an unbeatable product range, but as part of Applied Energy Products Limited, it is backed by nationwide support services second to none. Our Specification team is trained to give pre-sales advice on product selection, and our design team can show how to remain compliant with Part L and generate SAP and NHER accreditation.



Eco-Response storage radiant heaters offer advanced heating technology with rapid response, touch temperature control.



Credanet II controllers now feature digital diagnostic capability and sub-zone 'off set' temperature settings.

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Electric Heating The fuel of the future



Applied Energy

Creda, as part of the Applied Energy family, continues to invest in the bright future of Electric heating and hot water solutions. The 2006 Energy review reinforces the need for long-term thinking in energy production mix. One of the largest domestic energy users is the provision of heating and hot water. Gas, oil and coal are finite; they will run out, and long before then prices will continue to rise. In the meantime these fossil fuels continue to emit the greenhouse gases that are causing climate change. The U.K. is now a net importer of gas and oil, resulting in higher prices and security of supply concerns. As central electricity generation moves increasingly to UK based, cleaner, renewable alternative sources, the future for electric heating and hot water is bright indeed. Creda is at the forefront of this renaissance with the latest technology, advanced, energy-saving controls and modern styling to suit the homes of the 21st century.

Part L and SAP (standard assessment procedure)

The April 2006 revision to Part L1 of the building regulations requires that all new buildings do not exceed a target carbon emission rate (TER), as measured by the SAP methodology. This is often achieved by improving levels of insulation, air tightness and the construction method of any given building. Every day, up and down the country, Creda designs electric heating systems that improve SAP scores and achieve full compliance with the Part L of the building regulations for new buildings of all shapes and sizes. For more information on Part L or SAP visit www.applied-energy.com. If you already have a new building design and require specific guidance on complying with these regulations you can contact our design service (See details on page 5).

The Decent Homes Standard

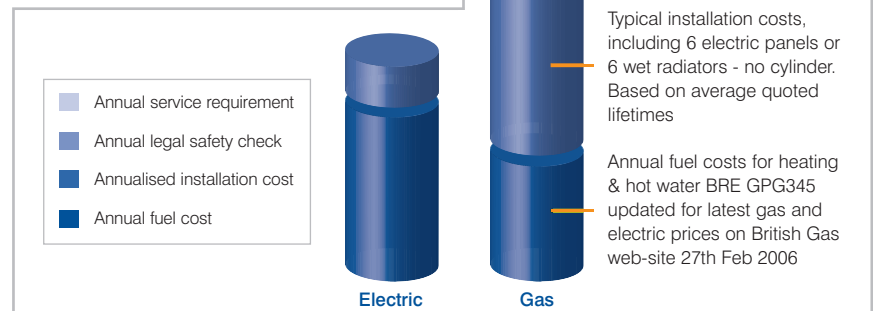
By 2010, the Government has committed to bring all social housing in to a decent condition, with most improvement taking place in deprived areas and for vulnerable households in the private sector, including families with children and increase the proportion of private housing in decent condition. A "Decent Home" should meet the statutory minimum standard for housing, be in a reasonable state of repair, have reasonably modern facilities and services, and, provide a reasonable degree of thermal comfort (or heating). Arguably the most important part of the Decent Homes Standard is concerned with ensuring dwellings provide a minimum level of warmth. By creating an environment of thermal comfort, tenants are more likely to enjoy a better quality of life. Creda electric heating products meet and exceed Decent Homes guidelines. Our web-site provides detailed on-line help, tutorials and even CPD courses for those wishing to learn more about the Decent Homes Standard and ensure that their organisations are compliant.

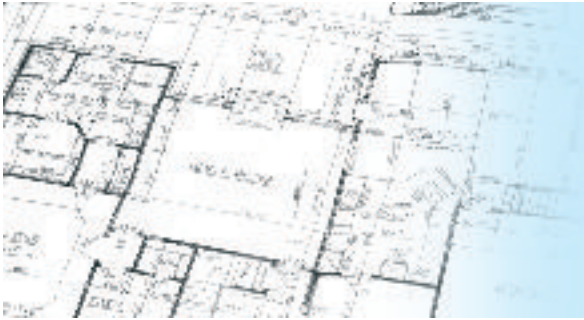
Electric is 17%* cheaper than gas

When powered by renewable sources, Creda electric heating products are Zero Carbon and are thereby helping to reduce the damaging effects of climate change. In addition Creda electric heating products are now cheaper than gas when all the costs of ownership are considered. All energy prices have risen in recent times, but none more so than gas. Electric heating requires less capital outlay, provides build speed benefits, allows for design flexibility and has much lower maintenance and servicing costs. Unlike gas, electric heating requires no landlord safety certificate and can provide instant heat on demand. Recent calculations showed a minimum overall cost saving of 17% against gas central heating, but for many customers it was far higher. Care Homes, Apartments and Flats favour electric heating for all these reasons; electric is the simplest and most cost effective solution for many hotels, gyms, crèches, nurseries, offices and shops.

Creda on-line

Find out more about Creda electric heating products, the revised Part L of the building regulations, SAP 2005, the Decent Homes Standard and much more by visiting Creda on-line at www.applied-energy.com. Creda on-line is an invaluable resource area full of product information, downloads, brochure builders and specifications.





Design and Compliance made easy

Applied Energy Products has over 40 years experience in designing and supporting electrical heating and hot water solutions into the UK market. As such we are able to offer an unparalleled application design service for all of our products. We are here to help new and existing customer alike in specifying Creda, and other products within the Applied Energy portfolio into real buildings and live projects, whether off-plan, already commenced new-build or planned refurbishment.

We offer a range of design services for all customers and prospective customers, from simple product selection through to full-service compliance consultancy. In recent times the proliferation of environmental legislation and revisions to building regulations, all designed to reduce carbon impact and improve energy efficiency, have made the design process increasingly complex. We are here to help.

Level 1: Our standard design service is free of charge and will provide a clear indication of the products required and the associated costs. This service can be provided from simple drawings.

Level 2: Our enhanced design service incurs a small charge to cover third-party costs. In return we provide our standard design service complete with schematic diagrams and confirmation of regulatory compliance including Part L of the building regulations. Full architectural drawings are required to complete our enhanced service.

Level 3: Our consultancy service supports you through the entire design and compliance process. A very competitive charge will apply, which is dependant upon property size and complexity. In return we offer the enhanced design service complete with personal contact with one of our senior designers and provision of all necessary certification and drawings up to completion of the project. All documentation, drawings and certificates are in your name and become your property on receipt of payment.

For further information visit, write or send drawings to:

AEDESIGN@applied-energy.com
or post to **Design Service, Applied Energy Products Limited, Morley Way, Peterborough, PE2 9JJ**

Technical Services

Our technical services call centre is staffed by a team trained in diagnosing and rectifying potential concerns over the phone, whether or not the product you have purchased is in guarantee. If for any reason they are unable to solve the problem by phone, they will brief an engineer, prior to the visit, to ensure that wherever possible, the problem is fixed first time. The team also provide advice on application, installation and operation, ensuring that the customer receives the full benefit from purchasing a Creda product.

For further information

Tel: 08709 000430
Fax: 08709 000530

Customer Training Centre

The Applied Energy Customer Centre at our head office in Peterborough showcases many of the products from our leading brands. The centre is available for product introduction and training for distributors, installers and specifiers by arrangement.

Training can be combined with live product demonstration and a guided factory tour of our manufacturing and assembly facilities.



The Building Centre

Building specifiers within reach of central London can see a permanent exhibition of selected product from Applied Energy at the Building Centre in Store Street, WC1E 7BT. The Applied Energy Products stand features solutions for space heating, water heating and ventilation, as well as information for whole house and renewable technology products. The centre also offers a full library support and literature distribution service for visitors to assist them in identifying the most appropriate products for any given project application.



Details of the Building Centre exhibit can be seen by following the link on the Applied Energy web site or by visiting **www.buildingcentre.co.uk**



Eco-Response offers advanced electric heating for the future, challenging expected norms, with superior efficiency and controllability.

Warmth where it's needed, when it's needed...in a single room or across the house. A constant low-level of background heat prevents the fabric of the building from cooling. On demand, this fast-acting appliance raises the temperature to meet your needs, providing total control and the peace of mind that comes with low running costs.

- Economical use of energy utilising the best of stored and direct acting heating technologies
- Modern stylish design - looks good in any home
- Unobtrusive - takes up no more space than a traditional wet radiator

- One-touch electronic controls with child lock facility
- Rapid response to changing demands in required comfort temperatures
- Pre-wired with 2 x 1.6 metre lengths of cable for storage and direct acting power supplies - for ease of connection
- Designed for rapid assembly to keep installation costs down
- Requires no annual maintenance
- Matching styled TPR II panel heaters also available
- Optional Flash pilot wire linked programmer available
- Simple '+ or -' touch temperature control for accuracy and flexibility
- CE marked and BEAB approved



Part L and SAP 2005

The Creda Eco-Response has been developed for Part L 2006 building regulations requirements and provides enhanced SAP 2005 scores.

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.

- Part L optimised
- Improve SAP 2005
- Lower carbon



Stored heat - maintains low level background heat to keep the fabric of the building warm, utilising economy off-peak electricity

Simple integral control on top of the heater - allows easy adjustment to achieve the user's preferred comfort temperature

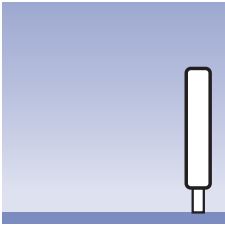
Radiant heat - rapidly raises temperature to required comfort level on demand

Product Selector

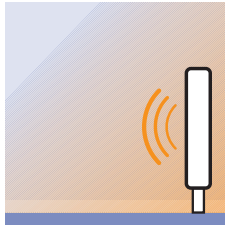
Model	Reference	Nominal Output	Charge Acceptance	Input Rating (Off Peak)	Input Rating (Radiant Eit.)	Number of Elements	Number of Bricks	Weight
ER300	75 773301	0.7kW	9.1kWh	1.3kW	0.28kW	2	8	66kg
ER400	75 773302	1.1kW	13.65kWh	1.95kW	0.34kW	3	12	94kg
ER500	75 773303	1.5kW	18.2kWh	2.6kW	0.39kW	4	16	124kg
FP2S	75 770909	Flash Programmer 2S						

Eco-Response Storage radiant heaters

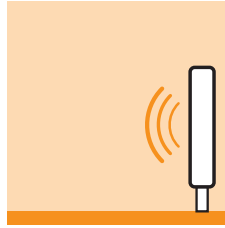
Conventional



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

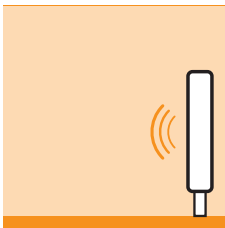


2. The building shell has to then be warmed again before room feels comfortable

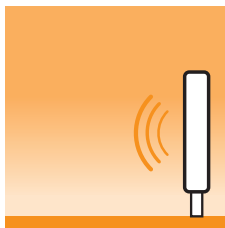


3. This takes time and energy - slow response

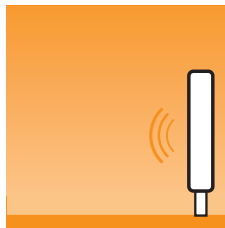
Eco-Response



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



Creda Flash Programmer 2S (optional)

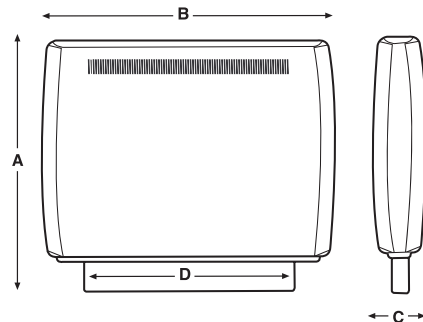
Allows up to 20 timed settings over a 7 day period, to control multiple heaters in two separate zones. The Flash Programmer can be linked by means of a pilot wire to Eco-Response heaters and electronic panel heaters from our Newera range.

Ref: 75 770909

Technical Specification

- Body - Polyester and zinc coated steel
- Energy retention cells - high density bonded magnetite
- Thermal insulation - Carbowool 128kg/m², Microtherm G and Calcium Silicate
- Elements (Storage) - 650W incoloy sheathed, mineral filled elements
- Element (Direct Acting) - Cable-on-foil thin facia panel
- Cable (Storage) - 1.6m 2.5mm² 3 core
- Cable (Direct Acting) - 1.6m 0.75mm² 2 core
- Controls (output) - Integral electronic thermostat with child lock facility
- Controls (input) - Integral electronic charge limiter. Maximum core temperature 670°C/690°C at full charge
- Thermal Safety Device (Storage) - Automatic reset core limit thermostat and manual over-temperature cut out
- Thermal Safety Device (Direct Acting) - Automatic reset limit thermostat and automatic reset over-temperature cut out

Dimensions



Model	Height A	Width B	Depth C	Feet Position D
ER300	712mm	600mm	130mm+10mm	295mm
ER400	712mm	830mm	130mm+10mm	523mm
ER500	712mm	1060mm	130mm+10mm	751mm

Minimum clearance required

- 75mm either side of heater
- 150mm in front of the heater
- 250mm directly above the heater



A new compact, versatile panel heater, with discrete controls and new contoured styling to match the Eco-response and, designed to be unobtrusive; occupying the minimum amount of valuable wall space.

The **TPR II** panel has been added to the Creda Heating range, building on the incredible success of the TPR I, which remains available due to customer demand. With much lower capital outlay, installation costs as much as half that of gas heating systems and no requirement for annual maintenance, electric heating is now widely accepted as the clean, flexible alternative heating solution, with lower lifetime cost.

When specified with advanced programming control options, as part of a total heating system, electric panel heaters can fulfil the widest range of applications,

from single room background heating through to complete home and workplace heating.

- Wide range of outputs to suit all design applications
- Thermostatic with timer and thermostatic only options in all sizes
- Discrete controls fitted with splash-proof lockable cover (IP24)
- All are supplied pre-wired with cable for left or right hand connection
- Thermal safety cut-out fitted on all models
- Credanet models also available (See page 13)
- CE marked and BEAB approved



The W range of panel heaters come complete with a capillary type thermostat which ranges from frost protection (5°C) to a maximum of 30°C



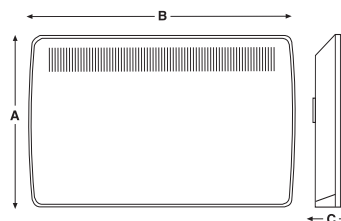
The TW range of panel heaters come complete with a thermostat and a 24 hour electromechanical timer



Technical Specification

- Finned sheathed element
- Thermostat - Capillary type
- Pressed steel front and rear panels finished in white
- Front panel with integral punched grille
- 24hr Electromechanical Timer (on TW models)
- Supply - 230/240V AC single phase

Dimensions



Product Selector

Model	Reference	Rating	Product Description	Height A	Width B	Depth C
TPR II 750W	75 773401	750W	Panel heater with thermostat	430mm	620mm	88mm
TPR II 1000W	75 773402	1000W	Panel heater with thermostat	430mm	620mm	88mm
TPR II 1250W	75 773403	1250W	Panel heater with thermostat	430mm	688mm	88mm
TPR II 1500W	75 773404	1500W	Panel heater with thermostat	430mm	688mm	88mm
TPR II 2000W	75 773405	2000W	Panel heater with thermostat	430mm	860mm	88mm
TPR II 750TW	75 773411	750W	Panel heater with thermostat & 24hr timer	430mm	620mm	88mm
TPR II 1000TW	75 773412	1000W	Panel heater with thermostat & 24hr timer	430mm	620mm	88mm
TPR II 1250TW	75 773413	1250W	Panel heater with thermostat & 24hr timer	430mm	688mm	88mm
TPR II 1500TW	75 773414	1500W	Panel heater with thermostat & 24hr timer	430mm	688mm	88mm
TPR II 2000TW	75 773415	2000W	Panel heater with thermostat & 24hr timer	430mm	860mm	88mm



The original and still popular TPR offers a compact range of wall heaters and provides an elegant heating solution for any room. It is particularly functional for use in smaller rooms such as bathrooms, bedrooms and conservatories.

With comfort and safety in mind, the TPR range has a wide temperature setting from 5°C (frost protection) to 35°C, as well as a safety cut out feature. Available with or without a quartz electronic programmer, users of the TPR range will be amazed by the flexibility and practicality of the compact units.

A detachable, hinged wall-mounting bracket ensures easy installation and subsequent access for cleaning or decorating.



Timer models feature quartz electronic 24 hour programmers

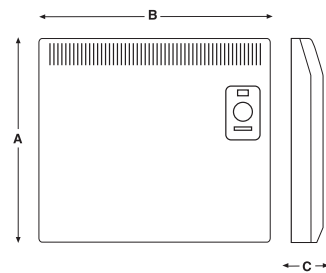
- Compact, attractive design occupying minimum wall space
- Ideal for smaller rooms such as conservatories, bathrooms and bedrooms
- All models are fully IPX4 rated and so can be installed in bathrooms in zone 2 & 3
- Wide range of heat outputs - 750W to 2000W
- All models controlled by highly sensitive thermostat (accurate to +/- 1/3°C) for better temperature control and economy
- Wide temperature range setting, from 5°C (frost protection) to 35°C
- Safety cut-out feature on all models
- Credanet models also available (See page 13)
- CE marked and BEAB approved



Technical Specification

- Elements - Finned metal sheathed mineral filled type
- Thermostat - Capillary type
- Programmer - 24hr high-temperature resistant Quartz Electronic action timer with 15 minute selection segments. Manual override of programme selection without timer re-setting (TW models only)
- Supply - 230/240V AC single phase

Dimensions



Product Selector

Model	Reference	Rating	Product Description	Height A	Width B	Depth C
TPR 750W	85311	750W	Panel heater with thermostat	420mm	444mm	93mm
TPR 1000W	85312	1000W	Panel heater with thermostat	420mm	614mm	93mm
TPR 1250W	85313	1250W	Panel heater with thermostat	420mm	614mm	93mm
TPR 1500W	85314	1500W	Panel heater with thermostat	420mm	682mm	93mm
TPR 2000W	85315	2000W	Panel heater with thermostat	420mm	852mm	93mm
TPR 750TW	85301	750W	Panel heater with thermostat & 24hr timer	420mm	444mm	93mm
TPR 1000TW	85302	1000W	Panel heater with thermostat & 24hr timer	420mm	614mm	93mm
TPR 1250TW	85303	1250W	Panel heater with thermostat & 24hr timer	420mm	614mm	93mm
TPR 1500TW	85304	1500W	Panel heater with thermostat & 24hr timer	420mm	682mm	93mm
TPR 2000TW	85305	2000W	Panel heater with thermostat & 24hr timer	420mm	852mm	93mm

Credanet II Advanced patented control system



Designed to meet ever more stringent standards of energy efficiency to reduce home heating bills, the Credanet system is adjustable by both time and temperature in up to three separate zones. Credanet automatically 'learns' to use the most economic electricity tariff via advanced mains borne signalling, linking specially designed (CNT) storage fan heaters, storage combination heaters and panel heaters. Credanet II has the following enhanced features:

- Up to 15 heaters in each zone
- New Sub-zone heater offset facility ($\pm 6^{\circ}\text{C}$) for additional flexibility
- Heaters are now set digitally by the controller - no need to open the heater to set dip-switches
- Credanet II features a 'lock out' option to protect initial system programming set up
- Detailed 'last 24hrs' diagnostic data is now available for engineer evaluation

Credanet still offers a unique three channel storage heater control system with:

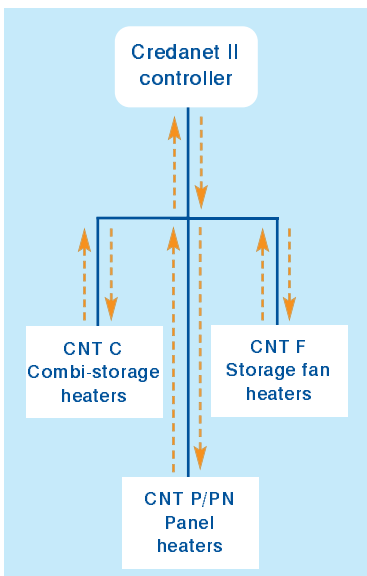
- Up to three comfort heating periods per zone, per day - varying each day if required
- Holiday function - up to 99days
- Direct zone off facility
- Achieves better NHER and SAP ratings to optimise Part L compliance and lower heating bills
- CE marked and BEAB approved

Benefits of zoning

Zoning allows for three independently controlled zones to be programmed adjustable by time and temperature. Most people want a warm bathroom first thing in the morning and a cosy living room in the evening but may like the bedrooms to be a couple of degrees cooler. With Credanet, the user can have exactly what is wanted.

From the comfort of the central controller, the user can dictate the climate in the whole house. And, as heat in each zone is only provided according to need or preference, there can be significant energy savings.

For interactive Credanet demonstration please visit: www.applied-energy.com/credanet



Credanet II mains borne ———
2 way signalling system - - - - -

How Credanet works

Zone 1: Living Area - Comfort Setting

Zone 2: Master Bedroom - Comfort Setting

Zone 3: Childrens Bedroom - Comfort Setting



Zone 1: Living Area - Comfort Setting

Zone 2: Master Bedroom - Setback Setting

Zone 3: Childrens Bedroom - Warming to Comfort Setting



Zone 1: Living Area - Cooling to setback setting

Zone 2: Master Bedroom - Warming to Comfort Setting

Zone 3: Childrens Bedroom - Setback Setting



Zone 1: Living Area - Setback Setting

Zone 2: Master Bedroom - Setback Setting

Zone 3: Childrens Bedroom - Setback Setting



Credanet II CNT F Storage fan heaters



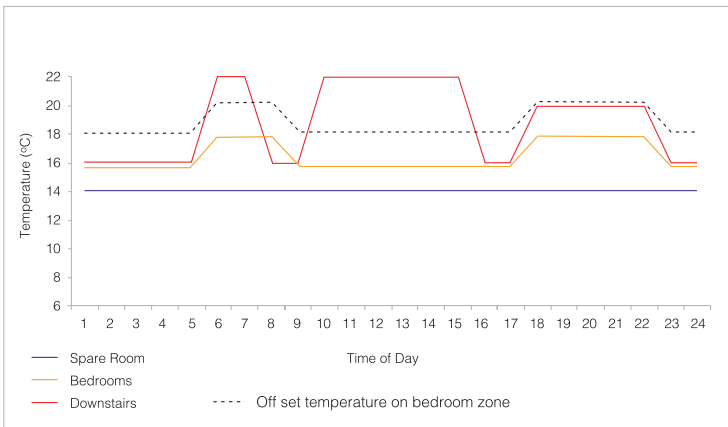
Designed to store heat more effectively and supply heat on demand, these Credanet storage fan heaters are the most economical in their class and achieve excellent NHER ratings.

- Economical storage heating with controlled, highly responsive output via a whisper quiet fan system
- Slimmest storage fan heater available - only 187mm deep
- Credanet heaters have an integral, factory fitted transceiver which is set on installation
- Boost feature
- Automatically regulates heat storage and comfort levels via central controller
- High levels of insulation - more effective at retaining stored heat than a conventional storage heater
- Fanned heat output avoids heat stratification
- Negative pressure air movement through the storage core avoids hotspots and heat leakage
- Incorporates direct acting element for instant "out of season" heating
- CE marked and BEAB approved

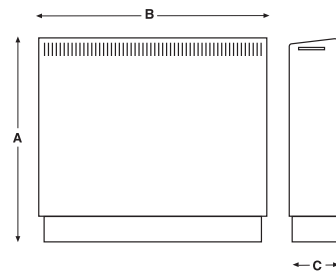


Technical Specification

- Insulation - Opacified siliceous aerogel and mineral fibre mat
- Storage Core - High density iron oxide compound
- Storage Elements - Mineral insulated stainless steel sheathed
- Fan Unit - Crossflow
- Protection - Two level thermal safety overheat
- Supply - 230/240V AC single phase



Dimensions



Model	Height A	Width B	Depth C
CNT 18F	705mm	788mm	187mm
CNT 24F	705mm	1016mm	187mm

Product Selector

Model	Reference	Rating Storage	Direct Acting	Charge Acceptance	Net Storage	Elements	Bricks	Weight
CNT 18F	70309X	2.4kW	1.5kW	17.6kWh	14.9kWh	3	12	121kg
CNT 24F	70319X	3.4kW	1.5kW	23.5kWh	20kWh	4	16	158kg
CNC2	79321X	Credanet II controller - Central Programming unit						

Credanet CNT C Combi-storage heaters



Highly efficient 3 model range of electric storage heater combined with a built-in direct acting fan heater for rapid response, thermostatically controlled, fan heater that operates independently from the storage heater. Ideal for living areas that might need a boost of heat on demand.

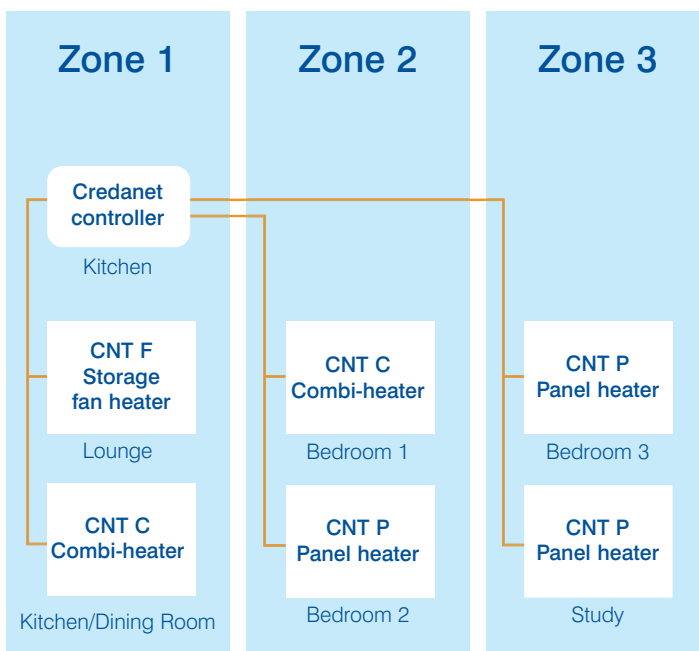
- Provides a unique combination of storage heating and 'Warmflow' (Direct) fan heating
- 'Warmflow' fan heater is more responsive and more efficient at maintaining desired room temperature

- Avoids heat stratification, giving more even heat throughout the room
- Quiet running fan
- Boost feature
- Heat storage and comfort levels automatically regulated via Credanet controller
- Fan heater can be set to full or half load on installation to suit application
- CE marked and BEAB approved

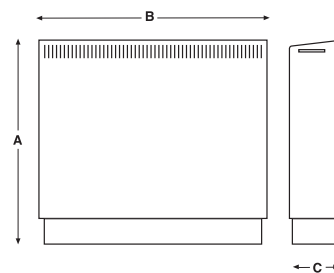


Technical Specification

- Insulation - Opacified silicaceous aerogel and mineral fibre mat
- Storage Core - High density iron oxide compound
- Storage Elements - Mineral insulated stainless steel sheathed
- Protection - Two level thermal safety overheat
- Supply - 230/240V AC single phase



Dimensions



Model	Height A	Width B	Depth C
CNT 12C	760mm	560mm	170mm
CNT 18C	760mm	788mm	170mm
CNT 24C	760mm	1016mm	170mm

Typical Credanet product mix.

Product Selector

Model	Reference	Rating Storage	Rating Fan	Charge Acceptance 7hrs	Charge Acceptance 8hrs	Elements	Bricks	Weight
CNT 12C	79349X	1.7kW	0.5 / 1kW	11.8kWh	12.6kWh	2	8	78kg
CNT 18C	79359X	2.5kW	0.75 / 1.5kW	17.1kWh	18.5kWh	3	12	114kg
CNT 24C	79369X	3.4kW	1 / 2 kW	23.5kWh	25kWh	4	16	149kg

Credanet CNT & CNT II panel heaters



CNT Credanet panel heaters are available in both the popular, original TPR panel design and the new softer TPR II contour style. Both ranges offer controlled direct acting heating as part of a Credanet heating system. They have an integral factory fitted transceiver which enables two way signalling between the panel heaters and the central Credanet controller.

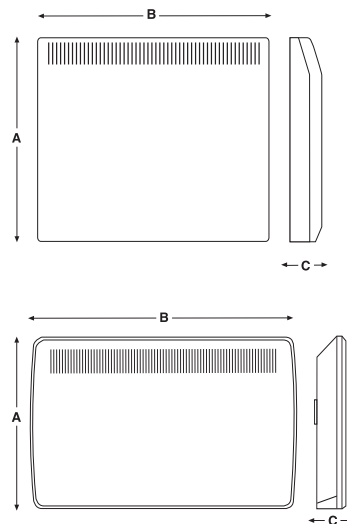
- Comfort levels are automatically controlled via the Credanet system
- Features a detachable, hinged wall mounting bracket for ease of installation and cleaning
- CE marked and BEAB approved
- Compact design
- Boost feature will provide comfort levels whenever required
- All models are splash-proof (IPX4) and suitable for installation in Zones 2 and 3 of areas such as bathrooms
- Wide range of power outputs - 750W to 2000W



Technical Specification

- Elements - Finned, metal sheathed mineral filled type
- Protection - Thermal safety overheat
- Supply - 230/240V AC single phase

Dimensions




Product Selector

Model	Reference	Rating	Height A	Width B	Depth C
CNT 750P	85361X	0.75kW	420mm	444mm	93mm
CNT 1000P	85362X	1kW	420mm	614mm	93mm
CNT 1250P	85363X	1.25kW	420mm	614mm	93mm
CNT 1500P	85364X	1.5kW	420mm	682mm	93mm
CNT 2000P	85365X	2kW	420mm	852mm	93mm
CNT II 750PN	75 773421	0.75kW	430mm	620mm	88mm
CNT II 1000PN	75 773422	1kW	430mm	620mm	88mm
CNT II 1250PN	75 773423	1.25kW	430mm	688mm	88mm
CNT II 1500PN	75 773424	1.5kW	430mm	688mm	88mm
CNT II 2000PN	75 773425	2kW	430mm	860mm	88mm

Control Options

Heater type		Model / Reference	Signalling method	Zones
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The performance and economy of Creda heating products can be further enhanced by use of a number of control options to suit the type of installation and lifestyle requirements.

Eco-Response Storage Radiant Heaters		Flash Programmer2S 75 770909	Via. pilot wire linking heaters	2
Newera Style & Electronic Panel Heaters		Flash Programmer 2S 75 770909	Via. pilot wire linking heaters	2
		MB programmer 75 770908	Mains borne (no pilot wire required)	1
Credanet II Storage & Panel Heaters		Credanet II controller 79321X	2 way mains borne signalling (no pilot wire)	3
RF (Radio Frequency) Panel Heaters		Single zone controller 85715	Radio Frequency 433 MHZ (no pilot wire required)	1
		6 zone controller 85710	Radio Frequency 433 MHZ (no pilot wire required)	6
		Plug-in receivers 85711	Radio Frequency 433 MHZ (no pilot wire required)	-
		RF panel plug-in saver 85712	Electronic plug-in unit for one RF panel heater only	1
Sole Glow Electric Underfloor Heating		Soleglow Programmer 75 771202	Mains wired (requires RCD protection)	1
Kitchen Plinth Heaters		Remote thermostat kit	Mains wired (requires RCD protection)	1
Sunquartz Radiant Heaters		Autodriver PIR controller 85 822084	Mains wired single phase only	1

Number of Heaters	Settings	User features
Multiple heaters limited by signal load of 0.5amps	Temp: Integral thermostat on heater Time: Up to 20 settings over 7 days	User selects comfort setting on the Eco-Response heaters and time settings on the programmer
Multiple heaters limited by signal load of 0.5amps	Temp: Integral thermostat on panels Time: Up to 20 settings over 7 days	User selects comfort setting on the panel heaters and time settings on the programmer
Any number (with receivers fitted)	Temp: Dual thermostats integral on panels Time: 3 periods per day (in hourly multiples)	Transmitter/receiver unit at each panel can hold the programmer
15 per zone	Temp: Integral heater thermostat - set at controller Time: 3 comfort periods per zone per day	Intelligent, system programmer with diagnostics, lock offset & 99 day holiday function
Any number (with receivers fitted)	Temp: Comfort, fallback & frost on controller - back up thermostat on panels Time: 24hr / 7day	Remote control, hand held or wall mounted programs all functions (requires batteries)
Any number (with receivers fitted)	Temp: Comfort, fallback & frost on controller - back up thermostat on panels Time: 24hr / 7day	Remote control, hand held or wall mounted programs all functions (requires batteries)
1 receiver per panel required	-	-
1	Temp: Integral Electronic thermostat on panels Time: 15 programmes	Choice of pre-set programs to control a single heater at source
Controller 16amp rated	Temp: Thermostat probe supplied wired to controller Time: 7 day programming	Wall mounted controller to programme time, comfort & set back temperatures
1 (unswitched models only)	Temp: Single stage variable thermostat supplied in kit	Wall mounted controls for on/off switching and thermostatic adjustment (no timer function)
Up to 6kW total load	Time: PIR turns on - turns off if no movement is detected by pre-set timer	Adjustable timer and range of PIR (Quartz Lamp intensity not thermostatically controlled)

Newera Style Panel heaters



The Newera Style range provides a stylish option for fully-controllable heating in every room. The accurate twin electronic thermostats provide flexible control while the attractive design means Newera Style looks at home anywhere.

Safety and comfort feature highly in the design of the Newera Style, making them perfect both for homes and, for commercial premises. The units are manufactured from composite material to provide a lower surface temperature without loss of convected heat and also feature a unique outlet grille design that helps prevent wall discolouration.

An optional programmer can be added to provide seven-day programming of comfort and setback times, allowing you to match the heating to your needs throughout the week. The use of advanced mains-borne signal technology means you can control heaters throughout a building without any additional wiring.



Newera Style panel heaters feature twin electronic thermostats.

- Modern, stylish design
- 4 model range 0.7kW-2kW
- Unique grille design to keep walls free of dust marks
- Composite construction for lower surface temperature without loss of convected heat
- Twin electronic thermostats for comfort and setback
- IP24 rated for bathroom use
- CE marked and BEAB approved



Newera Style and Newera Electronic panel heaters may be connected as a centrally controlled system using the optional mains borne accessories. The MB programmer communicates with the heaters and controls comfort or setback thermostat as per the times set in the programmer.

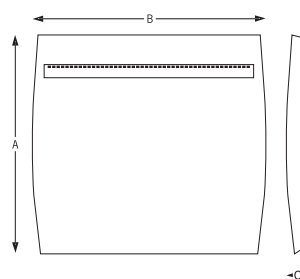
MB Programmer Ref: 75 770907
 MB Interface Ref: 75 770908



Technical Specification

- Elements - Finned, metal sheathed mineral filled type
- Thermostats - Twin electronic
- Protection - Two level thermal safety overheat
- Supply - 230/240V AC single phase

Dimensions



Product Selector

Model	Reference	Rating	Height A	Width B	Depth C
PPH75	75 772601	0.75kW	615mm	497mm	135mm
PPH100	75 772602	1.0kW	615mm	645mm	135mm
PPH150	75 772603	1.5kW	615mm	941mm	135mm
PPH200	75 772604	2.0kW	615mm	1163mm	135mm
MBPRG	75 770907	Newera MB Programmer			
MBIF	75 770908	Newera MB Interface			



The Newera Electronic range provides style, flexibility and ease of use in buildings of any size. Built-in twin electronic thermostats allow simple control of heating for increased comfort and setback temperatures.

Suitable for use in homes or commercial premises, the Newera units can be used individually or can be linked to provide complete heating systems.

A seven-day programmer can be added for the convenience of hassle-free heating matched to the way you use the space throughout the week. All units are fitted with a special mounting bracket that allows the heater to be tilted forward, making it really simple to clean and decorate behind them.



Newera Electronic panel heaters feature twin electronic thermostats.

- Robust construction
- Compact, attractive design occupying minimum wall space
- Can be used for single room or complete heating system
- Twin electronic thermostats for comfort and setback
- Hinged wall mounting bracket to allow easy access for cleaning and decorating
- IP24 rated for bathroom use
- CE marked and BEAB approved



Creda Flash Programmer 2S (optional)

Newera Style and Newera Electronic panel heaters can be used individually or can be pilot wire linked to a flash controller as part of a complete heating system.

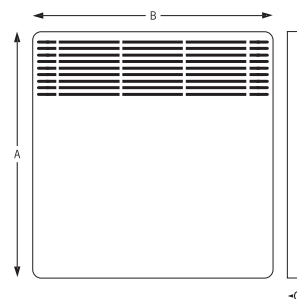
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Technical Specification

- Elements - Finned, metal sheathed mineral filled type
- Thermostats - Twin electronic
- Protection - Two level thermal safety overheat
- Supply - 230/240V AC single phase

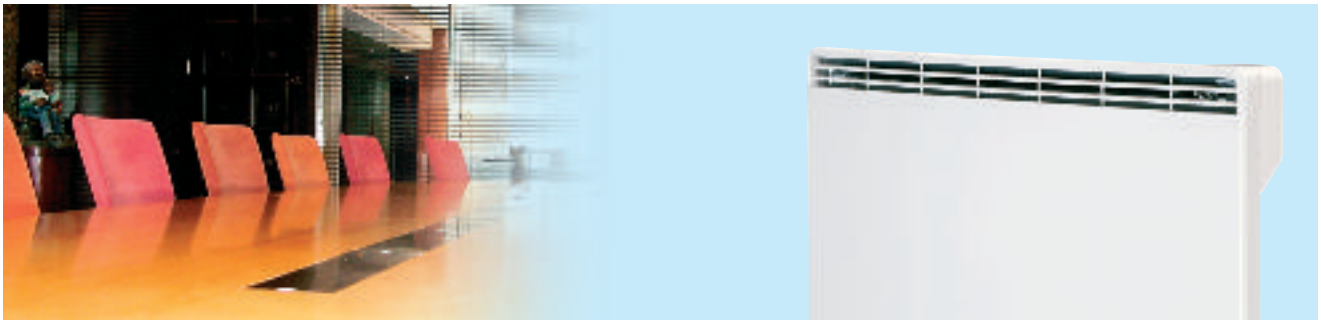
Dimensions



Product Selector

Model	Reference	Rating	Height A	Width B	Depth C
EPH50	75 772401	0.5kW	450mm	370mm	78mm
EPH1000	75 772402	1.0kW	450mm	445mm	78mm
EPH1250	75 772403	1.25kW	450mm	520mm	78mm
EPH1500	75 772404	1.5kW	450mm	590mm	78mm
EPH2000	75 772405	2.0kW	450mm	740mm	78mm
FP2S	75 770909	Flash Programmer 2S			

RF Electronic Radio frequency controlled panels



The RF range offers a combination of slimline, flexible heater panels with non-wired control solutions; ideal for use in domestic and commercial applications.

Designed to offer economical, stylish and safe heating solutions, these compact panels can be used in conjunction with tailored accessories to provide the perfect heating solution.

A digital electronic thermostat uses integral drift compensation to ensure a stable and consistent room temperature and an on/off switch allows flexibility when heating is not required.

The RF panel range includes standard 400mm panels, 200mm plinth panels and splash-proof models to provide a complete heating solution for every room, including the bathroom.

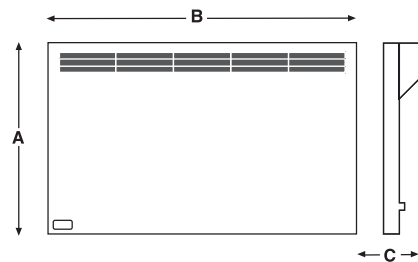
- Local or central control meets Building Regulations Part L (When used with Creda Saver or Zone Controllers)
- Electronic thermostat with drift compensation for accurate room temperature control
- RF/E406S, RF/E410S are splash-proof to IP24 - for safe use in bathrooms
- Total flexibility in controllers with a non-wired solution for easy installation
- CE marked and BEAB approved



Technical Specification

- Elements - Finned, metal sheathed mineral filled type
- Protection - Two level thermal safety overheat
- Supply - 230/240V AC single phase

Dimensions



Product Selector

Model	Reference	Product Description	Rating	Height A	Width B	Depth C
RF/E408	85510	RF 400mm panel heater	0.8kW	400mm	645mm	80mm
RF/E410	85520	RF 400mm panel heater	1kW	400mm	735mm	80mm
RF/E412	85530	RF 400mm panel heater	1.2kW	400mm	915mm	80mm
RF/E415	85540	RF 400mm panel heater	1.5kW	400mm	1095mm	80mm
RF/E420	85550	RF 400mm panel heater	2kW	400mm	1365mm	80mm
RF/E406S	85820	RF 400mm panel heater (splash-proof)	1.6kW	400mm	555mm	80mm
RF/E410S	85840	RF 400mm panel heater (splash-proof)	1kW	400mm	735mm	80mm
RF/E208	85610	RF 200mm panel heater (plinth)	0.8kW	200mm	1095mm	80mm
RF/E210	85620	RF 200mm panel heater (plinth)	1kW	200mm	1275mm	80mm
RF/E212	85630	RF 200mm panel heater (plinth)	1.2kW	200mm	1545mm	80mm
RF/E215	85640	RF 200mm panel heater (plinth)	1.5kW	200mm	1725mm	80mm



A choice of innovative control options are available to suit both domestic and commercial applications.

Electronic Thermostat:

- All RF panels feature integral electronic thermostat
- Drift compensation to maintain a stable room temperature
- Double pole on/off switch and overheat protection
- LCD display when element is energised

Creda Saver:

- Optional plug-in, programmable cartridge with 15 pre-set programmes
- Comfort mode thermostat on heater
- Economy mode thermostat on Creda Saver

Creda Zone Receiver:

- Optional plug-in receiver for heaters, to enable control via Creda Zone 1 or 6 controller
- Integral thermostat for back-up
- Automatic start up when communication is restored
- 433 MHz operating band

Creda Zone 1 & 6:

- 2 models: single zone controller or 6 zone controller
- Time and temperature adjustment 24 hours a day, 7 days a week.
- Frost protection setting (5-15°C)
- Fall back temperature (5-30°C)
- Comfort temperature setting (5-30°C)
- Individual zone & measured zone temperature LCD display
- Can be wall mounted or freestanding for hand held programming
- Battery operated (3 x AAA)



Electronic Thermostat



Creda Saver



Creda Zone Receiver



Creda Flash Programmer 2S (optional)

RF Electronic panel heaters can be used individually or can be pilot wire linked to a flash controller as part of a complete heating system.

Ref: 75 770909

Product Selector			
	Model	Reference	Product Description
	CZ6	85710	Creda Zone 6 RF controller
	CZR	85711	Plug-in Receiver
	CZS	85712	Plug-in Creda Saver
	CZC	85713	Cover for Controls
	CZ1	85715	Creda Zone 1 RF controller
	FP2S	75 770909	Flash Programmer 2S



The Newera Profile range of panel heaters are available complete with thermostat and digital programmer in white or silver models or without integral controls, in white only, for use with external temperature control and time programming.

- Available in 4 different heat outputs
- Slim profile heater with 10mm mounting bracket
- 7 day digital programmer to set different 'on' and 'off' periods for each day of the week
- Controls behind push button door
- Quick fit installation template bracket which sits on the floor to mark the correct mounting height and fixing positions

- Hinged wall mounting bracket to allow easy access for cleaning and decorating
- Accredited to IPX4 for use in bathroom installation
- CE marked and BEAB approved



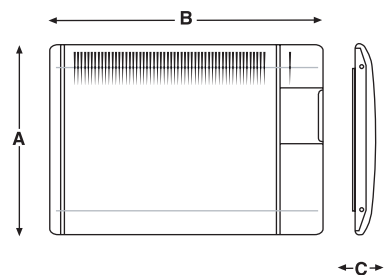
NPP - with thermostat and 7 day digital programmer with day, hour and minute programming. Also features 'clock forward' and 'countdown timer'.



Technical Specification

- Elements - Finned, metal sheathed mineral filled type
- Protection - Two level thermal safety overheat
- Supply - 230/240V AC single phase

Dimensions



Product Selector

Model	Reference	Product Description	Rating	Height A	Width B	Depth C
NPP50	75 773001	Thermostatic panel with programmer (white)	0.5kW	430mm	442mm	80mm
NPP100	75 773002	Thermostatic panel with programmer (white)	1.0kW	430mm	680mm	80mm
NPP150	75 773003	Thermostatic panel with programmer (white)	1.5kW	430mm	680mm	80mm
NPP200	75 773004	Thermostatic panel with programmer (white)	2.0kW	430mm	852mm	80mm
NPP50S	75 773011	Thermostatic panel with programmer (silver)	0.5kW	430mm	442mm	80mm
NPP100S	75 773012	Thermostatic panel with programmer (silver)	1.0kW	430mm	680mm	80mm
NPP150S	75 773013	Thermostatic panel with programmer (silver)	1.5kW	430mm	680mm	80mm
NPP200S	75 773014	Thermostatic panel with programmer (silver)	2.0kW	430mm	852mm	80mm
NP50	75 772901	Panel heater with no controls (white)	0.5kW	430mm	442mm	80mm
NP100	75 772902	Panel heater with no controls (white)	1.0kW	430mm	680mm	80mm
NP150	75 772903	Panel heater with no controls (white)	1.5kW	430mm	680mm	80mm
NP200	75 772904	Panel heater with no controls (white)	2.0kW	430mm	852mm	80mm

Newera Plus Entry level panel heaters



A simple and flexible way to heat your home, the slim and stylish Newera Plus range of panel heaters provides you with comfortable warmth, whatever the size and layout of your rooms. The built-in thermostat and separate on/off switch of the Newera Plus means it can be used either in isolation or as part of a linked heating system with individual controls. The perfect solution for hotels or student accommodation.

- Excellent value and simple to operate
- Robust construction
- Compact - takes up minimal wall space
- Hinged wall mounting bracket to allow easy access for cleaning and decorating
- Ideal for conservatories, extensions, hotels and student accommodation
- Easy to install
- IP24 rated for bathroom use
- CE marked and BEAB approved



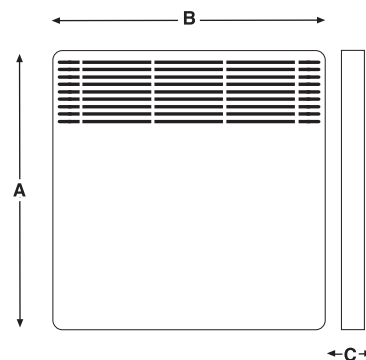
Technical Specification

- Elements - Finned, metal sheathed mineral filled type
- Protection - Two level thermal safety overheat
- Supply - 230/240V AC single phase



Integral hydraulic thermostats and separate on/off switch

Dimensions



Product Selector

Model	Reference	Rating	Height A	Width B	Depth C
HPH750	75 772301	0.75kW	450mm	370mm	78mm
HPH1000	75 772302	1.0kW	450mm	445mm	78mm
HPH1250	75 772303	1.25kW	450mm	520mm	78mm
HPH1500	75 772304	1.5kW	450mm	590mm	78mm

SFHA Sensair Automatic Electric storage fan heaters



The ultimate combination of storage and direct fan heating. Able to regulate input with direct acting heat flexibility, the SFHA is more effective at retaining heat than a conventional storage heater. Able to operate on virtually any tariff and with superior high performance insulation levels, it achieves higher SAP and NHER ratings than manual input storage heaters.

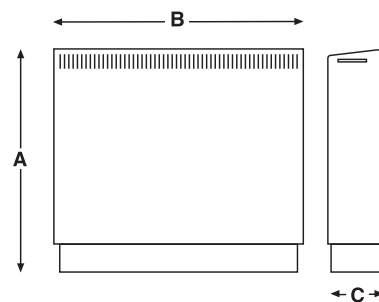
- Combines electric storage fan heating, direct acting heating and fanned heat output with simple controls
- Fully automatic heat storage - no user adjustment required on input controls
- High performance insulation works more effectively than a conventional storage heater
- Enables heat to be on demand throughout the day
- Heat output is via a quiet two speed fan
- Boost setting for high speed room heat up
- Fan can be switched off without altering thermostat setting
- Direct acting facility provides fanned heat if stored heat is depleted
- Operates on virtually any tariff and takes better advantage of extended or split tariffs
- Fanned heating avoids heat stratification
- Lockable controls cover
- Negative pressure air movement through the storage core avoids hotspots and heat leakage
- CE marked and BEAB approved



Technical Specification

- Insulation - Opacified siliceous aerogel and mineral fibre mat
- Storage Core - High density iron oxide compound
- Storage Elements - Mineral insulated stainless steel sheathed
- Fan Unit - Two speed Crossflow fan
- Controls (output) - Regulated by fan, controlled by integral adjustable electronic room thermostat
- Controls (input) - Hydraulic head temperature compensated, room and storage core temperature sensitive, auto-set charge control
- Protection - Two level thermal safety overheat
- Supply - 230/240V AC single phase

Dimensions



Model	Height A	Width B	Depth C
SFH18AW	705mm	788mm	187mm
SFH24AW	705mm	1016mm	187mm

Product Selector

Model	Reference	Rating Storage	Direct Acting	Charge Acceptance (7 hrs)	Net Storage	Weight	Number of Elements	Number of Core Bricks	Remaining Useful Heat* (Fan Off) After 17hrs (Static) Discharge
SFH18AW	70305	2.5kW	1.5kW	17.6kWh	14.9kWh	121kg	3	12	40%
SFH24AW	70315	3.4kW	1.5kW	23.5kWh	20.kWh	158kg	4	16	40%

TSR Supaslim Combi Storage fan heaters



The Creda Supaslim Combi heater is designed to combine economic and efficient storage heating using low-cost tariff electricity with an independently thermostat-controlled fan heater. Effectively two heaters in one, the built-in fan can provide heat on its own or in combination with the storage heater for a rapid boost to room temperature.

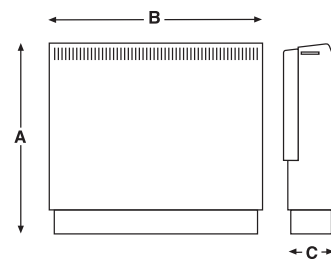
- Combines economic tariff rate storage heater with a fast and responsive Warmflow fan heater for instant room heating
- The slimmest storage combination heater available
- 'Sensamatic' fully automatic storage heater output ensures room comfort levels are maintained throughout the day without user intervention
- The Warmflow fan heater has manually adjustable room temperature sensing thermostatic control accurate to within 0.5°C
- Warmflow gives better heat distribution helping avoid heat stratification
- Quiet, low velocity Warmflow fan
- All controls are concealed behind a lockable flap
- CW range have manually adjustable hydraulic charge control thermostat
- ACW range has hydraulic input charge control thermostat providing auto-set input charge control
- Fan heater ratings can be set on full or half load (installation option)
- Automatic fan heater switch-off during off-peak tariff periods (installation override option)
- CE marked and BEAB approved



Technical Specification

- Insulation - Opacified siliceous aerogel and mineral fibre mat
- Storage Core - High density iron oxide compound
- Storage Elements - Mineral insulated stainless steel sheathed
- Fan Unit - Crossflow
- Controls (output) - Regulated by fan, controlled by integral adjustable electronic room thermostat
- Controls (input) - Hydraulic head temperature compensated, room and storage core temperature sensitive, auto-set charge control
- Protection - Two level thermal safety overheat
- Supply 230/240V AC single phase

Dimensions



Model	Height A	Width B	Depth C
TSR12CW/ACW	760mm	560mm	170mm
TSR18CW/ACW	760mm	788mm	170mm
TSR24CW/ACW	760mm	1016mm	170mm

Product Selector

Model	Reference	Rating Storage	Direct Acting	Charge Acceptance (7hrs)	Net Storage	Weight	Number of Elements	Number of Core Bricks
TSR12CW	79348	1.7kW	1.0/0.5kW	11.8kWh	12.6kWh	78kg	2	8
TSR18CW	79358	2.5kW	1.5/0.75kW	17.6kWh	18.5kWh	114kg	3	12
TSR24CW	79368	3.4kW	2.0/1.0kW	23.5kWh	25.0kWh	149kg	4	16
TSR12ACW	75 772001	1.7kW	1.0/0.5kW	11.8kWh	12.6kWh	78kg	2	8
TSR18ACW	75 772002	2.5kW	1.5/0.75kW	17.6kWh	18.5kWh	114kg	3	12
TSR24ACW	75 772003	3.4kW	2.0/1.0kW	23.5kWh	25.0kWh	149kg	4	16

TSR Sensor Plus & Slimline Electric storage heaters



The Multi-sense system in the TSR Sensor Plus (AW models) automatically controls heat storage to maintain the desired room temperature. Working on any low-cost tariff, these heaters monitor the room temperature and energy stored within the heater core to avoid overcharging. This can save up to 15% of the energy used by ordinary storage heaters.

- Multi-sense two thermostatic sensor control system for heat storage and room temperature control
- The only storage heater available that automatically monitors and controls heat output through a thermostatic sensor
- Controls couldn't be simpler - one for input and one for output
- Multi-sense system enables energy savings of up to 15%
- Multi-sense operates exclusively at maximum efficiency on all economy tariff periods
- Automatic control means little if any control adjustment - just set and forget
- All Multi-sense sensors are mounted within the heater
- Lockable controls cover
- CE marked and BEAB approved

TSR Slimline (MW) models offer the same range of sizes and outputs but with simple manual input and output controls.



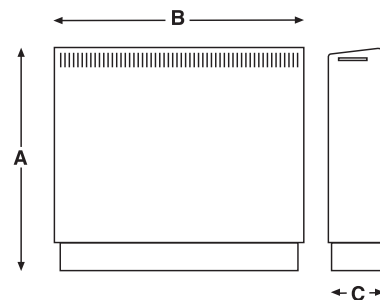
* TSR6AW/MW have no user controls and are IPX4 rated, and are suitable for zone 3 bathroom use



Technical Specification

- Insulation - Opacified silicaceous aerogel and mineral fibre mat
- Storage Core - High density iron oxide compound
- Storage Elements - Mineral insulated stainless steel sheathed
- Controls* (output) - Manually adjustable thermostat controlling output damper. Controls (input) - Hydraulic charge control thermostat, manually adjustable
- Protection - Two level thermal safety overheat
- Supply - 230/240V AC single phase

Dimensions



Model	Height A	Width B	Depth C
TSR6A/MW	705mm	335mm	170mm
TSR12A/MW	705mm	560mm	170mm
TSR18A/MW	705mm	788mm	170mm
TSR24A/MW	705mm	1016mm	170mm

Product Selector

Model	Reference	Rating Storage	Charge Acceptance (7 hrs)	Charge Acceptance (8 hrs)	Weight	Number of Elements	Number of Core Bricks
TSR6AW	79331	0.9kW	6.3kWh	7.2kWh	41kg	1	4
TSR12AW	79341	1.68kW	11.8kWh	12.6kWh	77kg	2	8
TSR18AW	79351	2.5kW	17.6kWh	18.5kWh	110kg	3	12
TSR24AW	79361	3.4kW	23.5kWh	25.0kWh	145kg	4	16
TSR6MW	79334	0.9kW	6.3kWh	7.2kWh	41kg	1	4
TSR12MW	79344	1.68kW	11.8kWh	12.6kWh	77kg	2	8
TSR18MW	79354	2.5kW	17.6kWh	18.5kWh	110kg	3	12
TSR24MW	79364	3.4kW	23.5kWh	25.0kWh	145kg	4	16



Creda TSF Turbo Storage Fan Heaters provide controlled output space heating with maximum economy and flexibility.

The heater retains up to 40% of its total stored heat after 17 hours, allowing the thermostatically controlled 2-speed centrifugal fan to deliver rapid and uniform heat.

- Smooth, rounded, modern appearance, compatible with today's home and office décor
- TSF Turbo uses economy tariff electricity, operating particularly well on special daytime economy periods
- Available in three output capacities - 3.6kW, 4.8kW and 5.7kW
- More controllable, providing heat quickly when required
- In-built direct element for out of season heating using day rate electricity
- Fanned heat is faster and more even in distribution, particularly near ground level
- Easy to use manual controls for room thermostat and Economy Charge
- Single or 3 phase installation capability
- CE marked



Technical Specification

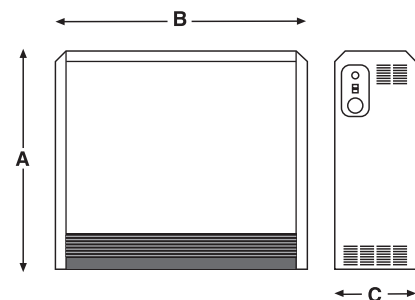
- Insulation - Opacified siliceous aerogel and mineral fibre mat
- Storage Core - High density iron oxide compound
- Storage Elements - Mineral insulated stainless steel sheathed
- Fan Unit - Two speed Crossflow fan
- Protection - Two level thermal safety overheat
- Supply 230/240V AC single phase (can be connected to a 380/415V 3 phase supply)



User controls

- Charge input control
- Neon switch for fan
- Neon switch for direct acting element
- Heat output control

Dimensions



Model	Height A	Width B	Depth C
TSF24K	672mm	776mm	250mm
TSF32K	672mm	926mm	250mm
TSF42K	672mm	1076mm	250mm

Product Selector

Model	Reference	Rating Storage	Direct Acting Element Load	Charge Acceptance (7hrs)	Charge Acceptance (8hrs)	Weight	Number of Core Bricks
TSF24K	70369KS	3.6kW	0.7kW	25.2kWh	28.8kWh	137kg	18
TSF32K	70379KS	4.8kW	1.1kW	33.6kWh	38.4kWh	176kg	24
TSR42K	70389KS	5.7kW	1.5kW	39.9kWh	45.6kWh	215kg	30

Storage Heater Accessories



Creda are also able to offer a range of useful heater accessories to complement the storage and panel heater ranges.

TSR Towel Rails

- Available for TSR 6, TSR 12 and TSR18 auto and manual models
- Warms and dries towels safely
- Matching white finish
- Quick and easy to fit
- Supply complete with fixings



Storage Heater Shelves

- Available in four widths to cover all sizes of TSR storage heaters and SFHA storage fan heaters
- Matching white finish
- Quick and easy to fit
- Supply complete with fixings



Product Selector

TSR Towel Rails

Reference	Fits Heater
79130WS	TSR6 A&M
79140WS	TSR12 A&M
79150W	TSR18 A&M

Storage Heater Shelves

Reference	Fits Heater
79032S	TSR6
79042S	TSR12
79052S	TSR18/SFHA18
79062S	TSR24/SFHA24

Heater Guard Options

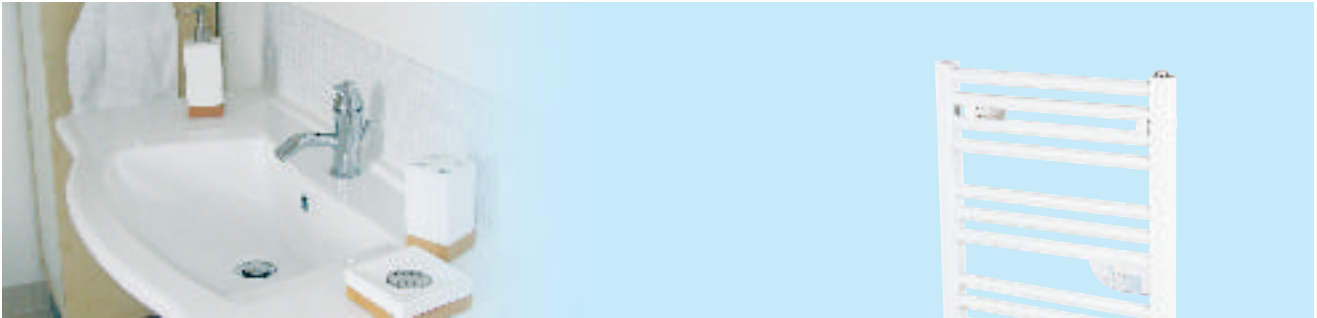
A range of guards, designed to protect against accidental contact with the hot surface of the heater, are available for Creda heaters from our suppliers:

Norfolk Industries, 95 Oak Street,
Norwich NR3 3BP.

Please contact them direct:

Tel: 01603 667957 or Fax: 01603 624265





Outline heated towel rails are of the popular ladder style and with outputs of up to 750W, they provide heating as well as warm dry towels. Where Outline towel rails differ from many other ranges is that they also feature integral thermostatic controls which offer user flexibility and economical control of energy use.

- Modern style design
- 300W, 500W and 750W output rails
- High quality white or chrome finish
- Thermostatic control unit with boost facility
- IP24 rated for bathroom use (controls must be in zone 3)



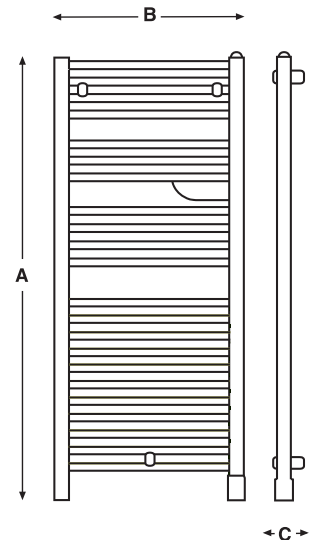
Fully adjustable thermostatic control with 2 hour boost facility

Integral Controls feature:

- Push button - On/off with neon indicator
- Rotary - Thermostat with frost protection setting
- Rotary - Boost time set 15min, 30min, 1hr or 2hrs
- Push button - Boost on with neon indicator



Dimensions



Creda Flash Programmer 2S (optional)

Outline towel rails can be pilot wire linked to a flash controller as part of a complete heating system.

Ref: 75 770909

Product Selector

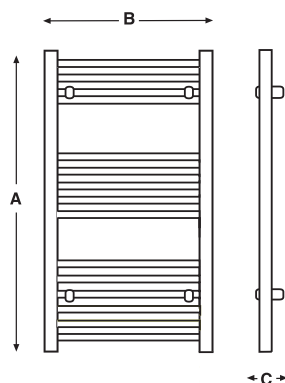
Model	Reference	Product Description	Rating	Height A	Width B	Depth C
OTRW500	75 772701	Outline 50 (white)	500W	815mm	550mm	85mm
OTRW750	75 772702	Outline 75 (white)	750W	1225mm	550mm	85mm
OTRC300	75 772710	Outline 30 (chrome)	300W	855mm	550mm	85mm
OTRC500	75 772711	Outline 50 (chrome)	500W	1300mm	550mm	85mm
FP2S	75 770909	Flash Programmer 2S				



Proline PE range offers a choice of 24 electric fluid-filled towel rail to satisfy individual preferences of colour and style for a wide range of bathroom sizes.

- 22mm rail diameter
- White or chrome finish in all models
- Straight or curved styles in all sizes
- Six rail sizes (3 heights each in 2 widths)
- PE towel rails supplied fluid-filled with factory fitted element and cable
- IP55 rated - may be fitted in zones 1, 2 or 3 subject to correct mounting and cable connection compliance
- CE marked

Dimensions



Technical Specification

- Element - Cartridge type
- Control - Cycling thermostat
- Protection - Safety thermofuse
- Supply 230/240V AC single phase

Product Selector

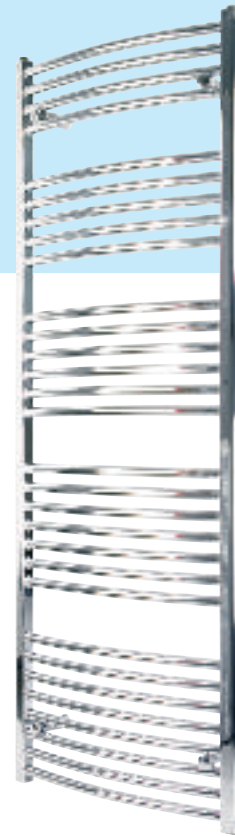
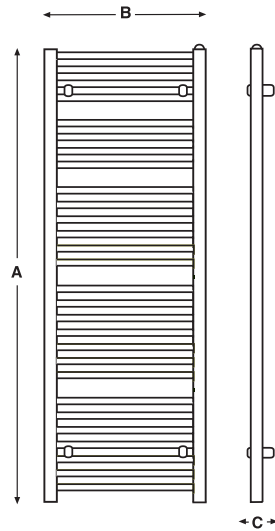
Model	Reference	Product Description	Height A	Width B	Depth C	Input (Watts)
PE4580SW	75 773801	Straight, white	800mm	450mm	110mm	200
PE45120SW	75 773802	Straight, white	1200mm	450mm	110mm	250
PE45160SW	75 773803	Straight, white	1600mm	450mm	110mm	300
PE6080SW	75 773804	Straight, white	800mm	600mm	110mm	200
PE60120SW	75 773805	Straight, white	1200mm	600mm	110mm	300
PE60160SW	75 773806	Straight, white	1600mm	600mm	110mm	400
PE4580SC	75 773811	Straight, chrome	800mm	450mm	110mm	200
PE45120SC	75 773812	Straight, chrome	1200mm	450mm	110mm	250
PE45160SC	75 773813	Straight, chrome	1600mm	450mm	110mm	300
PE6080SC	75 773814	Straight, chrome	800mm	600mm	110mm	200
PE60120SC	75 773815	Straight, chrome	1200mm	600mm	110mm	300
PE60160SC	75 773816	Straight, chrome	1600mm	600mm	110mm	400
PE4580CW	75 773851	Curved, white	800mm	450mm	110mm	200
PE45120CW	75 773852	Curved, white	1200mm	450mm	110mm	250
PE45160CW	75 773853	Curved, white	1600mm	450mm	110mm	300
PE6080CW	75 773854	Curved, white	800mm	600mm	110mm	200
PE60120CW	75 773855	Curved, white	1200mm	600mm	110mm	300
PE60160CW	75 773856	Curved, white	1600mm	600mm	110mm	400
PE4580CC	75 773861	Curved, chrome	800mm	450mm	110mm	200
PE45120CC	75 773862	Curved, chrome	1200mm	450mm	110mm	250
PE45160CC	75 773863	Curved, chrome	1600mm	450mm	110mm	300
PE6080CC	75 773864	Curved, chrome	800mm	600mm	110mm	200
PE60120CC	75 773865	Curved, chrome	1200mm	600mm	110mm	300
PE60160CC	75 773866	Curved, chrome	1600mm	600mm	110mm	400



The Proline range offers the same 24 towel range options, but supplied without fluid or fitted electrical element for connection to a wet central heating system.

- 22mm rail diameter
- White or chrome finish in all models
- Straight or curved styles in all sizes
- Six rail sizes (3 heights each in 2 widths)
- Dual-fuel conversion kits to enable seasonal switchover of wet rail to electric (See page 30)
- Proline PW (non-electric) towel rails are suitable for installation in zones 1, 2 or 3 of a bathroom or shower room
- CE marked

Dimensions



Product Selector

Model	Reference	Product Description	Height A	Width B	Depth C	Max. output (BTU's)	Max. output (Watts)
PW4580SW	75 773701	Straight, white	800mm	450mm	110mm	822	262
PW45120SW	75 773702	Straight, white	1200mm	450mm	110mm	1284	387
PW45160SW	75 773703	Straight, white	1600mm	450mm	110mm	2507	493
PW6080SW	75 773704	Straight, white	800mm	600mm	110mm	1124	335
PW60120SW	75 773705	Straight, white	1200mm	600mm	110mm	1756	495
PW60160SW	75 773706	Straight, white	1600mm	600mm	110mm	3431	655
PW4580SC	75 773711	Straight, chrome	800mm	450mm	110mm	754	243
PW45120SC	75 773712	Straight, chrome	1200mm	450mm	110mm	1178	359
PW45160SC	75 773713	Straight, chrome	1600mm	450mm	110mm	2300	491
PW6080SC	75 773714	Straight, chrome	800mm	600mm	110mm	1031	311
PW60120SC	75 773715	Straight, chrome	1200mm	600mm	110mm	1611	459
PW60160SC	75 773716	Straight, chrome	1600mm	600mm	110mm	3147	607
PW4580CW	75 773751	Curved, white	800mm	450mm	110mm	863	270
PW45120CW	75 773752	Curved, white	1200mm	450mm	110mm	1348	395
PW45160CW	75 773753	Curved, white	1600mm	450mm	110mm	2633	505
PW6080CW	75 773754	Curved, white	800mm	600mm	110mm	1180	344
PW60120CW	75 773755	Curved, white	1200mm	600mm	110mm	1844	505
PW60160CW	75 773756	Curved, white	1600mm	600mm	110mm	3602	668
PW4580CC	75 773761	Curved, chrome	800mm	450mm	110mm	791	251
PW45120CC	75 773762	Curved, chrome	1200mm	450mm	110mm	1237	366
PW45160CC	75 773763	Curved, chrome	1600mm	450mm	110mm	2415	498
PW6080CC	75 773764	Curved, chrome	800mm	600mm	110mm	1083	320
PW60120CC	75 773765	Curved, chrome	1200mm	600mm	110mm	1692	468
PW60160CC	75 773766	Curved, chrome	1600mm	600mm	110mm	3305	616



Proline PEK dual-fuel accessory kits enable seasonal changeover between a Proline PW towel rail fed by a wet central heating system and the PEK electric heating element. Available in three kit options:

A Element only with fitted cable

B Element with thermostat control and 2 hour boost

C Element with energy regulator and 2 hour override

- All kits are available in three ratings: 150W, 250W and 400W
- Optional dual-fuel element cartridge without controls (A) is IP55* rated and may be fitted in zones 1, 2 or 3 subject correct mounting and cable connection compliance
- Optional dual-fuel element cartridge with controls fitted (B or C) are IPX1** rated and may only be installed in zones 3 only
- All supplied with 1.3 metres of cable
- CE marked



A PEK Element only



B PEK TC Element with thermostat

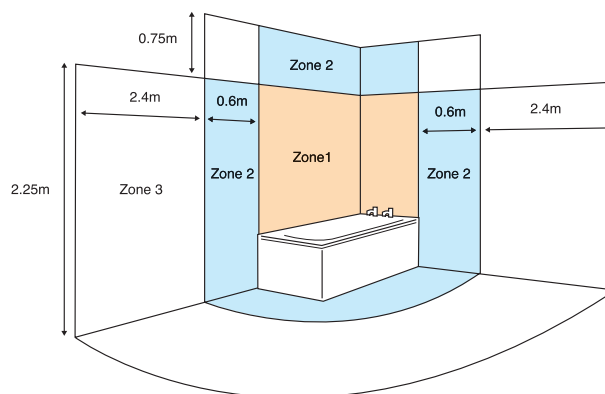


C PEK ER Element with energy regulator

Technical Specification

- Element - Cartridge type
- Cycling thermostat
- Protection - Thermofuse
- Element (without controls) IP55 rated*
- Element (with controls) IPX1 rated**
- Supply 230/240V AC single phase

Bathroom Zones



Product Selector

Model	Reference	Product Description	Rating	Element Length
PEK 150*	75 774001	150W Element (no controls)	0.15kW	300mm
PEK 250*	75 774002	250W Element (no controls)	0.25kW	350mm
PEK 400*	75 774003	400W Element (no controls)	0.4kW	400mm
PEK 150TC**	75 774011	150W Element with thermostat	0.15kW	300mm
PEK 250TC**	75 774012	250W Element with thermostat	0.25kW	350mm
PEK 400TC**	75 774013	400W Element with thermostat	0.4kW	400mm
PEK 150ER**	75 774021	150W Element with energy regulator	0.15kW	300mm
PEK 250ER**	75 774023	250W Element with energy regulator	0.25kW	350mm
PEK 400ER**	75 774024	400W Element with energy regulator	0.4kW	400mm



A range of traditional (TD) and ladder (LR) style fluid-filled towel rails finished in chrome with white option on the popular TD2 model.

All models offer low energy usage whilst maintaining superior heat output.

- Fluid filled for even heat distribution
- 18mm rail diameter
- Triple layer corrosion protection
- Unique styling complements a range of décor
- Maximises power distribution to optimise energy usage
- Highly polished finish

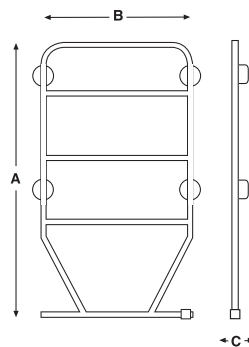
- High impact ABS support brackets
- IP55 rated, may be fitted in zones 1, 2 or 3 subject to correct mounting and cable connection compliance
- Easy to install - complete with fittings
- Designed for durability
- BEAB approved and CE marked



Technical Specification

- Element - Cartridge type
- Cycling thermostat
- Protection - Thermofuse
- Supply 230/240V AC single phase

Dimensions



TDC1



TDW2

Product Selector

Model	Reference	Product Description	Rating	Height A	Width B	Depth C
TDC1	86000	TD Rail (chrome)	60W	810mm	435mm	107mm
TDC2	86010	TD Rail (chrome)	80W	810mm	525mm	107mm
TDC3	86020	TD Rail (chrome)	80W	745mm	650mm	107mm
TDW2	86040	TD Rail (white)	80W	810mm	525mm	107mm
LRC3	86060	LR Rail (chrome)	140W	1000mm	500mm	110mm
LRC5	86080	LR Rail (chrome)	175W	1200mm	600mm	155mm

Solarail Dry element towel rails

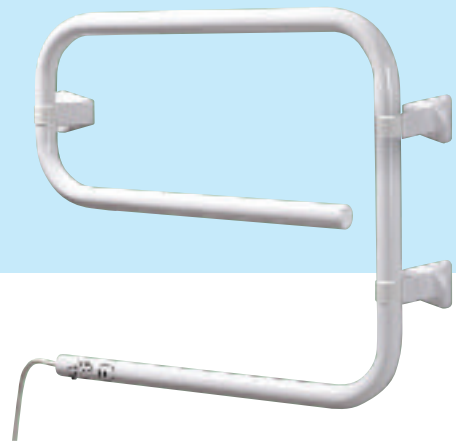


Designed for towel drying in the bathroom, shower room or even kitchen areas. The Creda Solarails are compact enough to fit in the smallest of spaces.

- Dry element towel rails with a choice of 100W or 50W outputs
- IPX4 rated
- Supplied with mains cable and mounting brackets for easy installation
- Finished in white or chrome
- BEAB approved and CE marked



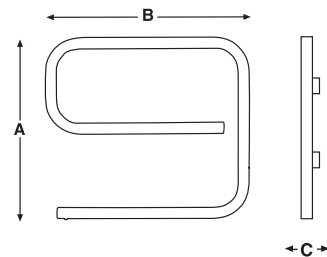
Solarail 100W



Technical Specification

- Elements - Dry flexible cable type
- Supply - 230/240V AC single phase

Dimensions



Compact Downflow Fan heaters

Fast response downflow heaters offer a low cost solution for rapid heating on demand. Available in three models, they are ideal for bathroom, shower room, kitchen, conservatory or garage locations.

- Two integral safety devices
- BEAB approved and CE marked

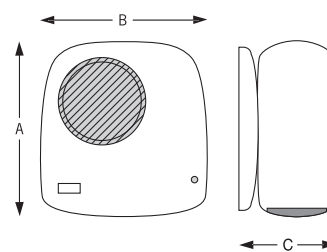
- CDF1 - 1kW constant output
- CDF2 - 2kW with automatic step down to 1kW
- CDF2T - 2kW with rotary variable thermostat
- Pull cord operated with power on neon indicator



Technical Specification

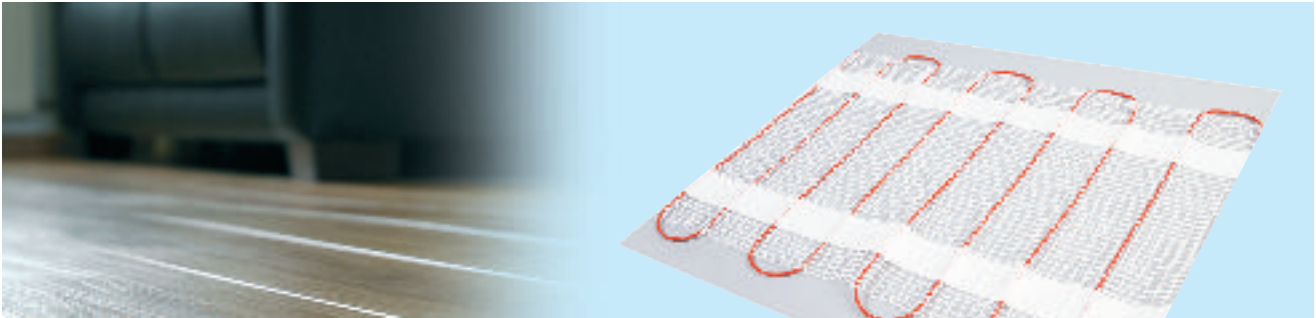
- Element - Stitched 'black heat' type
- Protection - Thermal cut-off and safety overheat
- Supply - 230/240V AC single phase

Dimensions



Product Selector

Model	Reference	Product Description	Rating	Height A	Width B	Depth C
CSR50W	51 805702	Solarail 50 (white)	50W	410mm	460mm	85mm
CSR50C	51 805701	Solarail 50 (chrome)	50W	410mm	460mm	85mm
CSR100W	51 805303	Solarail 100 (white)	100W	570mm	710mm	100mm
CSR100C	87013	Solarail 100 (chrome)	100W	570mm	710mm	100mm
CDF1	75 771002	Compact Downflow (constant)	1kW	240mm	235mm	135mm
CDF2T	75 771003	Compact Downflow (variable thermostat)	2kW	240mm	235mm	135mm
CDF2	75 771001	Compact Downflow (pre-set step down)	2kW	240mm	235mm	135mm



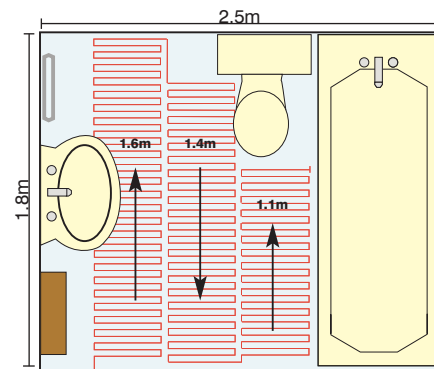
Creda underfloor heating gently dissipates into the room, giving an even, draught-free and comfortable warmth. Independent tests have shown that if your feet are warm, the air temperature in your room can be set a few degrees lower without affecting how you feel. A reduction of 2-3 degrees will make a dramatic impact on the amount of energy that is used resulting in much lower fuel bills.

With a low capital cost and easy installation, underfloor heating can be a very attractive proposition. But combine this with the clean, even and draught free heat produced, and no unsightly radiators to collect dust and hamper future redecoration, then the arguments in favour of Soleglow become very attractive.

- Wafer thin - only 3mm thick
- Suitable for tiles, carpet, laminate or wooden floors
- Almost invisible - all you see is a wall mounted thermostat
- Totally maintenance free
- No radiators - every wall is free from obstruction
- Total controllability - heat where you want, when you want
- Suitable for installation in both new-build and refurbishment projects
- 10 year guarantee (mats only)
- CE marked

What size heating mat?

Making sure the correct sized mat is ordered is essential. Underfloor heating does not go under permanent furniture. The bathroom below is 1800mm long by 2500mm wide, this equals 4.5m² of floor area, but the actual amount of underfloor heating required is only 2.0m².



Add the lengths of runs i.e. $1.6 + 1.4 + 1.1 = 4.1$ metres. Calculate the m², multiply overall length (4.1) by mat width (0.5m), $4.1 \times 0.5\text{m} = 2.05\text{m}^2$. Never select a mat larger than this area. In this case you would select the 2.0m² mat.



Multi-Controller (optional)

Advanced multi-controller allows 7 day programming of 'on/off' times, comfort and set-back temperatures.

Ref: 75 771202



Typical undertile installation

Product Selector

Model	Reference	Rating	Area	Length	Width	Depth
CSG1	75 771101	160W	1m ²	2000mm	500mm	3mm
CSG1.5	75 771102	240W	1.5m ²	3000mm	500mm	3mm
CSG2	75 771103	320W	2m ²	4000mm	500mm	3mm
CSG2.5	75 771104	400W	2.5m ²	5000mm	500mm	3mm
CSG3	75 771105	480W	3m ²	6000mm	500mm	3mm
CSG4	75 771106	640W	4m ²	8000mm	500mm	3mm
CSG5	75 771107	800W	5m ²	10,000mm	500mm	3mm
CSG6	75 771108	960W	6m ²	12,000mm	500mm	3mm
CSG7	75 771109	1120W	7m ²	14,000mm	500mm	3mm

CSGMC 75 771202 Soleglow Multi-Controller (7 day programmer)



Plinth heaters provide vital warmth to a cold floor and rapidly heat the room. The unit sits neatly in the plinth below the kitchen cupboard to provide an unobtrusive flow of warm air at floor level. Available with integral control or for further convenience a thermostat and switch can be wall mounted at a higher level.

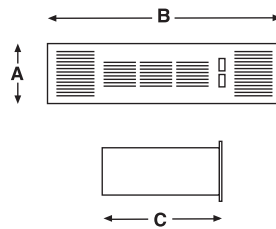
The units are available in three colours to compliment modern kitchen plinth finishes.

- Available with integral controls or remote switching/thermostatic control
- 1kW and 2kW settings
- Maintenance free motor with sealed for life bearings
- Power 'On' indicator lamp
- Automatic thermal cut out for safety
- Fits flush with standard plinths of 120mm and over
- Available in white, brown and stainless steel finishes
- BEAB approved and CE marked

Technical Specification

- Element - Stitched 'black heat' type
- Fan - Crossflow type
- Zinc coated steel body
- Stainless steel or powder coated facia
- Supply - 230/240V AC single phase

Dimensions



Remote thermostatic control kit (optional)

Remote thermostatic control kit consisting of wall mounted single stage variable thermostat, fused double pole switch, two gang box.

Reference 87100



Remote Plinth Heater (Brown)

Product Selector

Model	Reference	Rating	Product description	Height A	Width B	Width C
CPR2B	87105	2kW	Unswitched (requires remote thermostatic kit) brown	120mm	470mm	240mm
CPR2W	87106	2kW	Unswitched (requires remote thermostatic kit) white	120mm	470mm	240mm
CPR2S	75 773602	2kW	Unswitched (requires remote thermostatic kit) stainless steel	120mm	470mm	240mm
CPR2B	87417	2kW	Integral switched (brown)	120mm	470mm	240mm
CPR2W	87418	2kW	Integral switched (white)	120mm	470mm	240mm
CPR2S	75 773601	2kW	Integral switched (stainless steel)	120mm	470mm	240mm
CPRTK	87100		Remote thermostatic control kit			



Thermostatically controlled, these 2kW heaters have been designed to provide a low cost solution for rapid response localised heating.

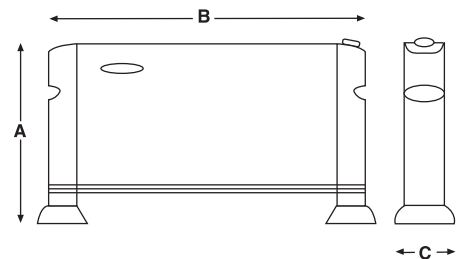
- Available in two models, a standard heater or fan assisted model with a timer
- Thermostatic control for precise temperature regulation
- Dual heat setting at 750W or 2000W
- PCFT model has a fan mode for faster heat distribution and an integral timer for multi-time on/off operation
- Wide base feet for improved stability
- finished in cream and beige
- Supplied complete with cable and plug
- BEAB approved and CE marked



Technical Specification

- Element - Open coil type
- Pressed steel body
- High impact ABS feet and end mouldings
- Supply - 230/240V AC single phase

Dimensions



PC2 Thermostatic convector heater

Product Selector

Model	Reference	Rating	Features	Height A	Width B	Depth C
PC2	75 770301	2kW	Thermostat	430mm	670mm	170mm
PC2FT	75 770303	2kW	Thermostat, fan & timer	430mm	670mm	170mm

Suntube Tubular heaters

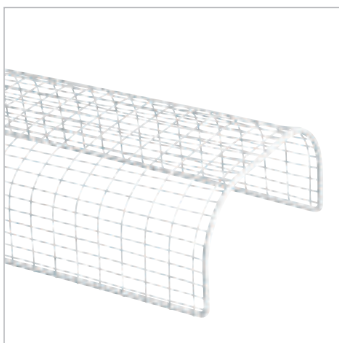


Suntubes are the perfect answer where a steady energy efficient source of heat is needed, providing gentle background warmth and frost protection for both domestic and commercial applications. They are highly effective as window demisters and for horticultural use, providing invaluable, effective heating and frost protection in greenhouses and conservatories.

- 60-360W outputs
- A range of 6 lengths and loadings
- Complete with universal mounting brackets for floor or wall fixing
- CE marked

Technical Specification

- Elements metal sheathed throughout
- Polyester epoxy powder coated aluminium body
- High temperature glass filled nylon end caps and brackets
- Supply - 230/240V AC single phase



Optional STG Guards*

We recommend the use of guards for additional security in sensitive areas such as schools, hospitals and care homes.

These can be obtained from C.Aino Ltd.
Tel: 020 7987 1184

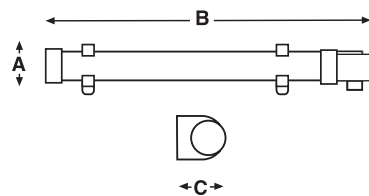


Optional Interlinking kit

Available for multiple installations (100mm mounting centres).

Reference 770903

Dimensions



Product Selector

Model	Reference	Guard short code*	Rating	Diameter A	Length B	Depth C
CST1	75 771501	STG1	60 Watts	52mm	410mm	75mm
CST2	75 771502	STG2	120 Watts	52mm	670mm	75mm
CST3	75 771503	STG3	180 Watts	52mm	980mm	75mm
CST4	75 77150	STG4	240 Watts	52mm	1280mm	75mm
CST5	75 771505	STG5	300 Watts	52mm	1590mm	75mm
CST6	75 771506	STG6	360 Watts	52mm	1890mm	75mm



Sunscreen and Sunspot heaters provide the ideal solution for draught exclusion on external doors. When mounted on the inside of an external door, they create a 'hot air curtain' to prevent cold draughts entering a building. In summer they also can be switched to fan only to form a barrier against incoming dust and provide a refreshing breeze. Suitable for a range of doorway applications in commercial premises such as shops, offices, workshops and stores, the Sunscreen and Sunspot heaters are designed for fast installation with key hole-slots for vertical mounting or brackets providing complete flexibility of adjustment from vertical to horizontal. Easily accessible switches allow the option to run the unit on fan only or at half or full heat output.

- Two heat settings or cold
- High volume throughput
- Smooth running, shaded pole motor, with 'greased-for-life' bearings
- Integral switching for ease of installation
- Tangential blower
- CE marked

Technical Specification

- Element - Open coil supported by ceramic insulators
- Zinc coated steel, powder coated body white/grey
- Shaded pole motor
- Protection - Thermal safety cut-out
- Supply - 230/240V AC single phase

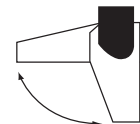
Dimensions



Wall Mount



Ceiling Mount



- Can be fixed directly to the wall using the key slot holes provided or angled using the brackets provided
- Mounting directly above the door at a height of between 1.8 to 2.25m



Sunspot 2.25kW

The Sunspot is a modular unit almost half the width of the Sunscreen. It can be used with a Sunscreen for wider doorways or on its own as a high level wall mounted fan heater in commercial premises.

Product Selector

Model	Reference	Rating	Height A	Width B	Depth C
CSS3	50 813976	3kW	185mm	610mm	105mm
CSS45	50 813977	4.5kW	185mm	610mm	105mm
CSS225	50 813975	2.25kW	185mm	350mm	105mm

Sunfan High level fan heater



Sunfan is a robust 3kW high volume air throughput commercial/industrial wall mounted fan heater designed to provide highly efficient heating in winter, or cool air circulation in Summer.

- High air volume throughput of 300m³/hour
- Quiet running, totally enclosed motor
- Wall mounted with 2 part self supporting bracket
- Multi-directional adjustment of 45° vertically and 150° horizontally with single screw locking
- High level heating/cooling - ideal for shops and warehouses where wall space is at a premium
- Double insulated
- Supplied complete with on/off and hot/cold control switch
- BEAB approved and CE marked



Dual control switch (included)

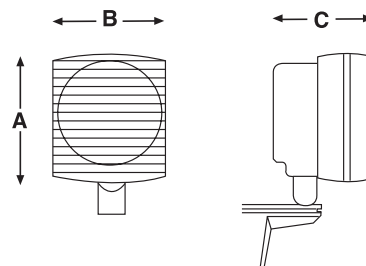
For remote switching on/off and hot/cold air circulation.

Reference 82 815906

Technical Specification

- Flame retardant polycarbonate/glass filled nylon body
- Single phase, 4 pole motor
- Two tone grey (neutral colours)
- Protection - Two thermal cut-outs
- Supply - 230/240V AC single phase

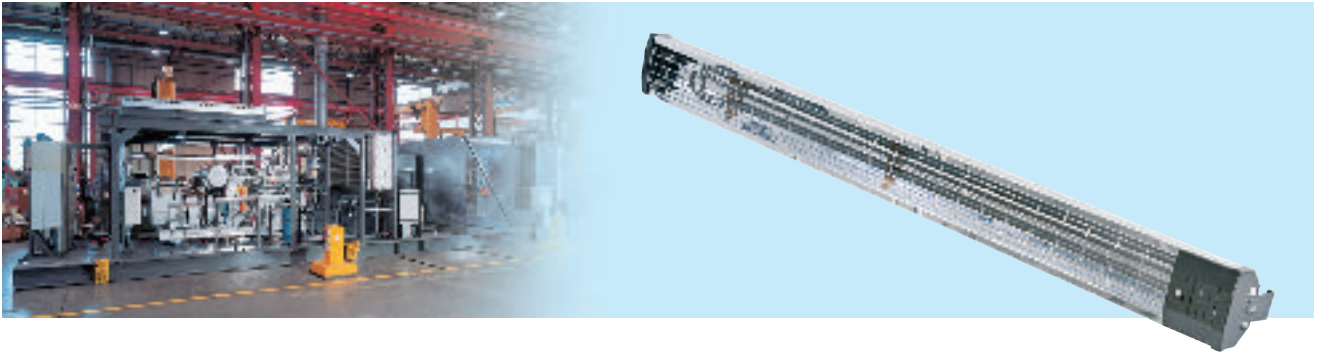
Dimensions



- Minimum mounting height 1.8 metres
- 150mm minimum clearance above the heater
- 300mm minimum clearance on either side

Product Selector

Model	Reference	Rating	Noise level @3m	Height A	Width B	Depth C
CSF3	75 771401	2.75kW	40.5dBA	229mm	267mm	260mm



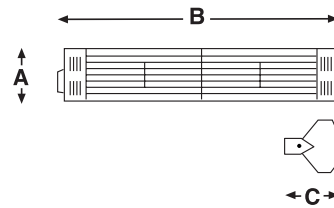
Sunslim is a low cost, robust and easy to install radiant heater. Its tilt mounting allows heat to be localised, or directed a general area. The Sunslim can be wall-mounted or ceiling hung.

- Instant, directional radiant heat
- Available in 2 and 3kW versions
- Completely silent in operation
- Lightweight and robust
- Corrosion resistant
- Suitable for bracket or chain mounting
- Easy to install
- Ideal for localised heating in large covered areas such as factories and workshops
- CE marked

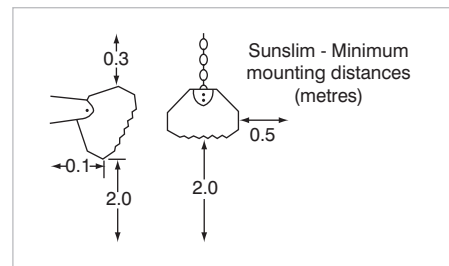
Technical Specification

- Element - 'Black heat' type
- Zinc coated steel body/matt black end caps
- Chrome plated steel guards
- Anodised aluminium reflector
- Supply - 230/240V AC single phase

Dimensions



- Minimum mounting height 2 metres
- 300mm minimum clearance above the heater
- 500mm minimum clearance on either side



- Installation notes: High temperature cable must be used. We recommend the use of a residual current device (RCD)

Product Selector

Model	Reference	Rating	Height A	Width B	Depth C
CSL2	75 771601	2kW	108mm	1215mm	71mm
CSL3	75 771602	3kW	108mm	1671mm	71mm

Sunquartz Shortwave infra-red radiant heaters



Instant heat right where it's needed. Sunquartz short wave infra-red heaters warm people, not the air. Their uses are endless, from warehouses to churches. These efficient sun-like heaters can penetrate damp air with minimum heat loss to the atmosphere.

- Up to 90% efficient at converting electricity into energy
- Instant sensation of heat with visible glow at switch on
- Absolutely silent in operation
- Long range heat projection
- Modular design
- Lightweight and silent
- Fitted with wire guard for safety
- 1 and 2 lamp units are suitable for a 230-240V single phase supply
- 3 lamp units are supplied wired for single phase supply, but can be connected to a 380-415 volt 3 phase supply
- CE marked



Sunquartz autodriver (optional)

PIR automatic controller, senses movement detected within its range and automatically switch on the heater which will remain switched on for a preset time.

The unit is suitable for 500W-6000W single phase operation. Soft start circuitry is incorporated to reduce the inrush current allowing cables and fusegear to be rated as for resistive loads and extending lamp life.

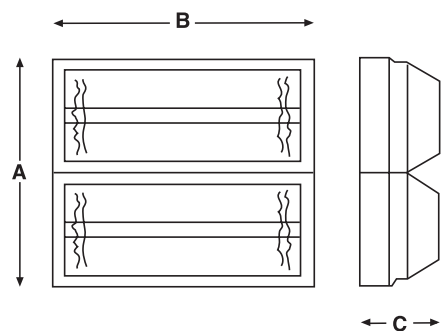
The P.I.R. range is adjustable and a temperature hold off facility will inhibit operation when ambient temperatures exceed a value selected between 10° and 20°C.

Reference 85 822084

Technical Specification

- Tungsten halogen lamps, 230/240V with ruby red quartz outer sleeve
- Reflectors bright rolled, specular 99.8% aluminium, electro-chemically brightened
- Electro zinc coated steel casing
- High pressure die cast aluminium end castings
- Epoxy polyester powder paint finish white/grey
- Supply - 230/240V AC single phase (3 lamp units can be connected to a 380/415V 3 phase supply)

Dimensions



Product Selector

Model	Reference	Rating	Number of lamps	Height A	Width B	Depth C	
CSQ1.5	75 771801	1.5kW	1	185mm	390mm	115mm	
CSQ2.0	75 771802	2kW	1	185mm	390mm	115mm	
CSQ3.0	75 771803	3kW	2	370mm	390mm	115mm	
CSQ4.0	75 771804	4kW	2	370mm	390mm	115mm	
CSQ4.5	75 771806	4.5kW	3	555mm	390mm	115mm	
CSQ6.0	75 771807	6kW	3	555mm	390mm	115mm	
CSQAD	85 822084	Sunquartz autodriver PIR					

Ceramic Emitters Long wave infra-red heaters

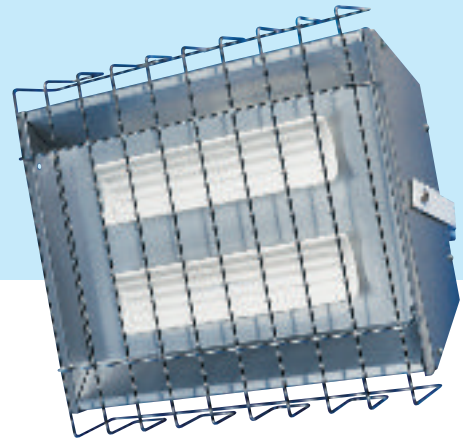


Long wave infra-red heaters offer highly efficient, silent, space heating. These heaters incorporate dual ceramic emitters to rapidly convert electrical energy into heat energy without producing light.

With no moving parts these heaters are virtually maintenance-free.

- Durable ceramic emitters which rapidly convert electrical energy into heat energy
- Available in 2, 3 and 4.5kW versions
- No fans or moving components so no dust contamination to the environment

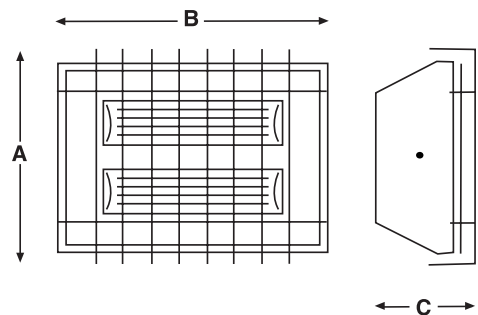
- Low maintenance
- Good vibration resistance
- Fitted with wire safety guards
- Robust fitting brackets
- Ideal for commercial and industrial application where glare free heat is required
- CE marked



Technical Specification

- Element - Ceramic emitter
- Grey painted steel casing
- Supply - 230/240V AC single phase

Dimensions



Product Selector

Model	Reference	Rating	Height A	Width B	Depth C
CCR2	75 771701	2kW	340mm	376mm	140mm
CCR3	75 771702	3kW	340mm	376mm	140mm
CCR45	75 771703	4.5kW	440mm	376mm	140mm

Sizing Guide Storage and panel heaters

To use these tables, select the type of heater and the appropriate sizing guide table. Then read across from the nearest floor area and appropriate external wall length to where the columns intersect.

There are two temperature options given in each table:

- 1 Comfort - approximately 21°C for living areas
- 2 Background - approximately 18°C, typically required in bedrooms

Choose either comfort or background heating for the suggested heater size.

These tables are based on conventionally constructed single or two storey dwellings within:

- Ceiling heights of 2.5m (8ft)
- Roof insulation of 25mm (1in) thick
- Brick cavity walls with no insulation
- An external temperature of -1°C

Technical Information

Tables for storage and storage fan heaters also assume the use of seven hour economy tariff electricity. Please check your tariff and metering requirements with either your local electricity company or call the Creda Technical Centre on 01782 385779.

Or see the sizing guide on e-specify@www.creda-heating.co.uk.

Product Selector

Floor Area m ²	Temperature Options	Total Length of Outside Wall (m)																		
		1.5m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m
Up to 3m ²	Comfort	S/XS	S	S	M	M	M													
3m ²	Background	S/XS	S/XS	S	S	S	M													
Up to 6m ²	Comfort	S	M	M	M	L	L	L	L											
6m ²	Background	S	S	S	S	M	M	M	M											
Up to 9m ²	Comfort	S	M	M	L	L	L	L	MS	SM	2M									
9m ²	Background	S	S	M	M	M	M	M	L	L	L									
Up to 12m ²	Comfort	M	M	L	L	L	MS	MS	MS	2M	2M	2M	LM							
12m ²	Background	S	M	M	M	M	L	L	L	L	MS	MS	MS							
Up to 15m ²	Comfort	L	L	L	L	MS	MS	2M	2M	2M	LM	LM	2L	2L						
15m ²	Background	M	M	M	M	L	L	L	MS	MS	MS	MS	2M	2M	LM					
Up to 18m ²	Comfort	L	L	MS	MS	2M	2M	2M	2M	LM	LM	2L	2L	2L	3M	3M				
18m ²	Background	M	M	L	L	L	MS	MS	MS	MS	MS	MS	2M	2M	2M	2M	LM			
Up to 21m ²	Comfort	L	L	MS	MS	2M	2M	2M	LM	LM	2L	2L	2L	3M	3M	3M	2L+S	2L+S	2L+S	
21m ²	Background	M	M	L	L	L	MS	MS	MS	MS	MS	2M	2M	2M	2M	LM	LM	LM		
Up to 24m ²	Comfort	L	MS	MS	2M	2M	2M	LM	LM	2L	2L	2L	3M	3M	3M	2L+S	2L+S	2L+S	2L+S	
24m ²	Background	M	L	L	L	MS	MS	MS	MS	MS	2M	2M	2M	LM	LM	ML	2L	2L	2L	
Up to 27m ²	Comfort	MS	MS	2M	2M	2M	LM	LM	2L	2L	2L	2L	3M	3M	3M	2L+S	2L+S	2L+S	2L+S	
27m ²	Background	L	L	L	L	MS	MS	MS	MS	2M	2M	2M	LM	LM	LM	2L	2L	2L	2L	
Up to 30m ²	Comfort	2M	2M	2M	LM	LM	2L	2L	2L	2L	2L+S	2L+S	2L+S	2L+S	2L+S	2L+S	2L+S	2L+S	3L	3L
30m ²	Background	L	L	MS	MS	MS	2M	2M	2M	2M	2M	LM	LM	2L	2L	2L	2L	2L	3M	3M

Storage heaters

Up to 3m ²	Comfort	18	18	18	18	18	18													
3m ²	Background	18	18	18	18	18	18													
Up to 6m ²	Comfort	18	18	18	18	24	24	24	24											
6m ²	Background	18	18	18	18	18	18	18	18											
Up to 9m ²	Comfort	18	18	18	24	24	24	24	18+S	18+S	18+S									
9m ²	Background	18	18	18	18	18	18	18	24	24	24									
Up to 12m ²	Comfort	18	18	24	24	24	18+S	18+S	18+S	18+S	18+S	18+S	18+S	18+S						
12m ²	Background	18	18	18	18	18	24	24	24	24	18+S	18+S	18+S							
Up to 15m ²	Comfort	24	24	24	24	18+S	18+S	18+S	18+S	18+S	18+S	24+S	24+S	24+S	24+S	24+S				
15m ²	Background	18	18	18	18	24	24	24	24	18+S	18+S	18+S	18+S	18+S	18+S	18+S				
Up to 18m ²	Comfort	24	24	24	18+S	18+S	18+S	18+S	18+S	18+S	24+S	24+S	24+S	24+S	24+S	24+S				
18m ²	Background	18	18	18	24	24	24	24	18+S	18+S	18+S	18+S	18+S	18+S	18+S	18+S				
Up to 21m ²	Comfort	24	24	18+S	18+S	18+S	18+S	18+S	18+S	18+S	24+S	24+S	24+S	24+S	24+S	24+S	24+S			
21m ²	Background	18	18	24	24	24	24	24	18+S	18+S	18+S	18+S	18+S	18+S	18+S	18+S	18+S			
Up to 24m ²	Comfort	24	24	18+S	18+S	18+S	18+S	18+S	18+S	18+S	24+S	24+S	24+S	24+S	24+S	24+S	24+S	24+S	24+S	24+S
24m ²	Background	18	18	24	24	24	18+S	18+S	18+S	18+S	18+S	18+S	18+S	18+S	18+S	18+S	18+S	18+S	18+S	
Up to 27m ²	Comfort	18+S	18+S	18+S	18+S	18+S	18+S	18+S	18+S	18+S	24+S	24+S	24+S	24+S	24+S	24+S	24+S	24+S	24+S	24+S
27m ²	Background	24	24	24	18+S	18+S	18+S	18+S	18+S	18+S	18+S	18+S	18+S	18+S	18+S	18+S	18+S	18+S	18+S	18+S
Up to 30m ²	Comfort	18+S	18+S	18+S	24+S	24+S	24+S	24+S	24+S	24+S	18+2M	18+2M	18+2M	18+2M	18+2M	18+2M	18+2M	18+2M	18+2M	
30m ²	Background	24	24	24	18+S	18+S	18+S	18+S	18+S	18+S	18+S	18+S	18+S	18+S	18+S	18+S	18+S	18+S	18+S	18+S

Storage fan heaters

Up to 3m ²	Comfort	600	600	1000	1000	1250	1250													
3m ²	Background	600	600	600	1000	1000	1000													
Up to 6m ²	Comfort	600	1000	1000	1250	1250	1500	1500	2000											
6m ²	Background	600	600	1000	1000	1000	1250	1250	1500											
Up to 9m ²	Comfort	1000	1000	1250	1250	1500	1500	2000	2000	2000	2250	2500	2500							
9m ²	Background	1000	1000	1000	1250	1250	1250	1500	1500	2000	2000	2000	2000							
Up to 12m ²	Comfort	1250	1250	1250	1500	1500	2000	2000	2000	2250	2500	2500	2500	2500						
12m ²	Background	1000	1000	1250	1250	1250	1500	1500	1500	2000	2000	2000	2000							
Up to 15m ²	Comfort	1250	1250	1500	1500	2000	2000	2250	2250	2500	2500	2750	3000	3000						
15m ²	Background	1000	1250	1250	1500	1500	1500	2000	2000	2000	2250	2500	2500	2500						
Up to 18m ²	Comfort	1500	1500	2000	2000	2000	2250	2500	2500	2500	2750	3000	3000	3250	3500	3500				
18m ²	Background	1250	1250	1250	1500	1500	1500	2000	2000	2250	2250	2500	2500	2500	2500	2500				
Up to 21m ²	Comfort	1500	2000	2000	2000	2250	2250	2500	2500	2750	3000	3000	3250	3500	3500	4000	4000			
21m ²	Background	1250	1500	1500	1500	2000	2000	2000	2000	2250	2250	2500	2500	2750	2750	3000	3000			
Up to 24m ²	Comfort	2000	2000	2000	2250	2500	2500	2750	2750	3000	3000	3250	3500	3500	4000	4000	4000	4000		
24m ²	Background	1500	1500	2000	2000	2000	2000	2250	2250	2500	2500	2750	2750	3000	3000	3250	3250			
Up to 27m ²	Comfort	2000	2000	2250	2500	2500	2750	3000	3000	3250	3500	3500	4000	4000	4000	4100	4400	4400	4750	
27m ²	Background	1500	1500	2000	2000	2000	2000	2250	2500	2500	2750	2750	3000	3000	3250	3250	3500	3500		
Up to 30m ²	Comfort	2250	2500	2500	2500	2750	3000	3000	3250	3250	3500	3500	4000	4000	4000	4100	4400	4400	4750	5000
30m ²	Background	2000	2000	2000	2000	2000	2250	2500	2500	2500	2750	2750	3000	3000	3250	3250	3500	3500	4000	4000

Panel heaters

Extra Small (XS) = TSR6 = 0.9kW Small (S) = TSR12 = 1.7kW Medium (M) = TSR18 = 2.5kW Large (L) = TSR24 = 3.4kW

Sunslim radiant heaters

When planning a Radiant Heating installation, refer to Table 1 to select the application and type of environment you wish to heat. Table 2 shows the area that can be heated by a single Sunslim Radiant Heater in 3kW and 2kW variants.

Note: Heating areas can be overlapped to achieve the necessary heating index.

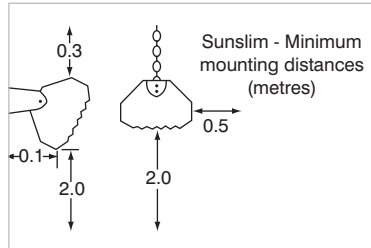


Table 1 - Sunslim heating index

Applications	Heating Index
Offices, Canteens, Waiting Rooms, Entrance Halls, Dressing Rooms	10-14
Shops, Meeting Halls, Recreation Rooms, Clubs	12-16
Workshops, Garages, Public Buildings	14-18
Warehouses, Loading Bays, Hangars	16-20
Churches	18-20

Table 2 - Sunslim heated area

Heating index	3kW			2kW		
	H	L	W	H	L	W
10	4.0	5.24	5.49	3.3	4.11	4.53
12	3.6	4.88	4.94	3.0	3.84	4.12
14	3.2	4.51	4.39	2.7	3.57	3.70
16	3.5	4.33	4.12	2.5	3.38	3.43
18	2.8	4.14	3.84	-	-	-

H = mounting height (determined by on-site requirements) L = length of the heated area W = width of the heated area

Sunquartz radiant heaters

Use the following procedure when planning a Sunquartz heating installation for buildings having a floor area of up to 500m².

- Make a scaled plan of the area to be heated, noting possible mounting heights and positions
- Determine the overall heating requirements

$$WxYxK = \frac{\text{Total kW loading}}{1000}$$

Key:

W = length to be heated in metres

Y = Width to be heated in metres

K = Intensity watts per m², determined from Heating Index Table 1

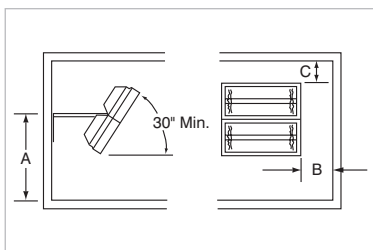
- Determine the number of Sunquartz heaters by dividing the kW rating of the selected units into the total kW loading from stage 2

Table 1 - Sunquartz heating index

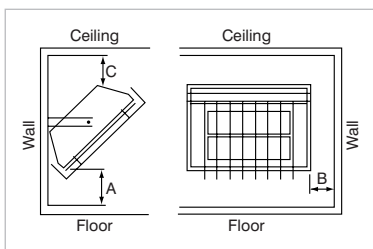
Sunquartz - Heating Index (K)	Recommended Applications:
130 - 170	Shops, Meeting halls, Recreation rooms, Clubs
150 - 170	Offices, Canteens, Waiting rooms, Entrance halls
150 - 200	Workshops, Garages, Public buildings
180 - 220	Warehouses, Loading bays, Hangars
220 - 240	Churches

Table 2 - Sunquartz heated area

Model	Spare tube reference	Min mounting distances		
		A	B	C
Sunquartz 1.5kW	85 821421	1800	300	300
Sunquartz 2.0kW	85 822171	2500	300	300
Sunquartz 3.0kW 2 lamp	85 821421	3000	500	500
Sunquartz 3.0kW 3 lamp	85 821421	3000	500	500
Sunquartz 4.0kW	85 822171	3000	500	500
Sunquartz 4.5kW	85 821421	3000	500	500
Sunquartz 6.0kW	85 822171	4000	500	500



Ceramic radiant heaters



Dimensions

Rating	A	B	C
2kW	1800	300	200
3kW	2500	300	300
4.5kW	3000	500	500

Area of coverage at minimum mounting height

Heating index	Applications	2kW	3kW	4.5kW
130-150W/m ²	Shops, Meeting Halls	7.2m ²	12.0m ²	18.8m ²
150-170W/m ²	Offices, Canteens	6.8m ²	11.3m ²	17.7m ²
170-200W/m ²	Workshops, Garages	6.0m ²	10.0m ²	15.7m ²
220-240W/m ²	Churches	4.7m ²	7.8m ²	12.3m ²

Notes

Notes