



Electric Heating Systems

Space saving electric central heating

Why electric heating?

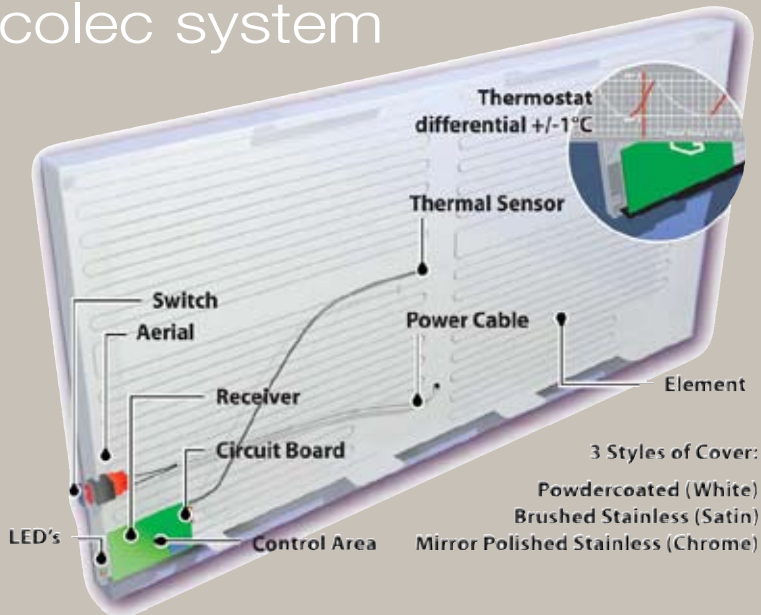
Our radiators work with a wireless room thermostat timer programmer offering a complete electrical heating system based on the principle that if we had more accurate controls, we could enhance energy cost savings.

Ecolec noise-free and space saving radiator panel heaters are the solution for the whole home, office, shop, hotel or retirement home!

Simply measure the room, calculate the heat loss and select the heater, or let Ecolec advise you!



Ecolec system



How the Ecolec controller/timer works

The Ecolec heater is designed to work with the WCT 100TX controller.

Using a WCT 100TX, everyday of the week can have up to six different air temperature settings programmed for times to suit the occupants of the property concerned.

When 'Actual Temperature' shown in the WCT 100TX display is below 'Target Temperature', a radio signal pulse is sent to the heater thus calling for heat. Communication continues regularly whenever heating is called for.

When the room 'Actual Temperature' approaches the current 'Target Temperature', heating output will reduce in steps by varying the heating surface temperature and this will then cycle up and down to maintain the required comfort level.

Running costs will depend upon the room size, building type, insulation, whether windows are doubled glazed etc.

Element rating: 2000 watts (230 volts) - Model VOL200D/RP/PC/RX/V - 500w x 2000h x 40d

Rated output: 1600watts at surface temperature 70°C (equal to input average)

Loading: <9 amps - rear cable entry - cable 2m long 3 core including earth.

Wireless controller timer



WCT100/TX is a high precision room temperature control (wireless 433MHz). It is also a 7 day programmer with up to 6 temperature settings per day. Each WCT 100/TX can control any number of heaters.



Ecolec - how the 2kW fan assisted heater works.

The 2kW fan assisted heater is designed to work the WCT 100TX controller.

Using a WCT 100TX, everyday of the week can have up to six different air temperature settings programmed for times to suit the occupants of the property concerned.

When 'Actual Temperature' shown in the WCT 100TX display is below 'Target Temperature', a radio signal pulse is sent to the heater thus calling for heat. Communication continues regularly whenever heating is called for.

When the actual temperature approaches the current target temperature, heating output will reduce in steps, and will cycle up and down depending upon room temperature variation.

The fan may drop if heat output requirement is low (approximately 400 watts or less) during which time the unit will function as a conventional convector heater.

Running costs will depend upon the room size, building type, insulation, whether windows are doubled glazed etc..

Input: 2000 watts (240 volts) - Model LST2000/C/60/WMPC/RX

Rated output: 2000 watts



Loading: 9 amps - cable exit LHS - cable length 2m 3 wire including earth connection.

The fan assisted heater has a noise level of 38 dB and is very quiet in performance.

This model works in conjunction with the WCT 100/TX timer/ programmer.

Height: 300mm Width: 600mm Depth: 80mm

So simple to fit

①



②



③



Ecolec electric radiators

it's simple - no mess, no fuss, no hassle.

Ideal for flats, houses, extensions, conservatories, annexes, holiday homes, offices and listed buildings.

Ecolec radiators alone - radiators can be used individually with or without a WCT controller.

Ecolec radiators as a system - radiators are invisibly linked to work as system operated by a WCT controller.

Great design

Efficient electric heating with minimalist looks ooze good design and quality finish.

Neat design, sits close to the wall.

Position vertically or horizontally.

No visible wires when used with a flat plate fused spur.

Space saving

Minimal wall to front face projection.

Plug onto a 13 amp socket.

Precision heating.

Quick reaction time.

Ecolec zoned heating for the way you live.

Increase efficiency and cut energy waste by dividing the home into distinct zones covering different heating needs. Why heat upstairs when you are downstairs and vice versa? Why heat the guest suite when it's not being used? Why not make the conservatory a heating zone of it's own?

Ecolec electric radiators can be wirelessly linked to provide a centrally controlled heating zone.


Zone 1 - living room


Zone 2 - bedrooms


Zone 3 - bathroom + hall



Internal temperatures will depend on the use of the room, but as a rough guide, bedrooms need to reach a temperature of about 18°C (zone 2), living/dining rooms and bathrooms 21-22°C (zone 1), and the kitchen, halls and landings in the order of 16 - 18°C (zone 3).

Zone control

Thanks to the WCT time controller, each zone has it's own time and temperature control providing optimum heat when and where you want it. The Ecolec controller is wireless, easy to program and simple to use.

Zone flexibility

Tailor the zones to suit your lifestyle and alter the zones as your living habits change.

Freedom to choose:

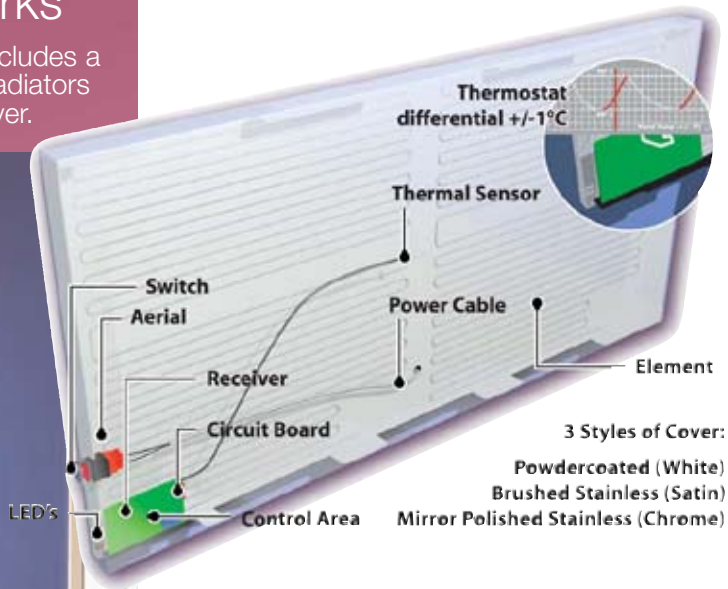
Number of zones
Sizes and finishes of radiators
Position of radiators

Number of radiators
Zone layout



How it works

Wireless controller includes a transmitter and all radiators contain a receiver.



3 Styles of Cover:

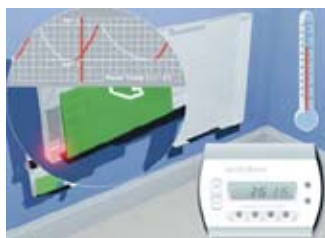
- Powdercoated (White)
- Brushed Stainless (Satin)
- Mirror Polished Stainless (Chrome)



The Wireless Controller transmits a signal to switch the heaters **on**. The heaters show a signal has been received by flashing a **green LED** twice. An illuminated **red LED** will now show that the heaters are active.



When the set room temperature is achieved the Wireless Controller transmits another signal to switch the heaters **off**. The heaters show the signal has been received by flashing the **green LED** twice. The **red LED** will now go out.



As the heaters warm up, and whilst maintaining the set ambient room temperature, the surface temperature of the front panels will not exceed their factory set limit, working on a differential of $\pm 1^{\circ}\text{C}$. This will be seen by the **red LED** constantly switching **on** and **off**.

Uniclass L7522	EPIC L22
CI/SfB (56.84)	X

SPACE SAVING VERTICAL & HORIZONTAL POWDER COATED RADIANT PANEL with Wireless Time and Temperature Control



A simple to install wireless controlled heating system for the whole home and commercial applications.
Perfect for apartments, public areas, offices, showrooms, shops, nurseries, schools, retirement homes and healthcare!

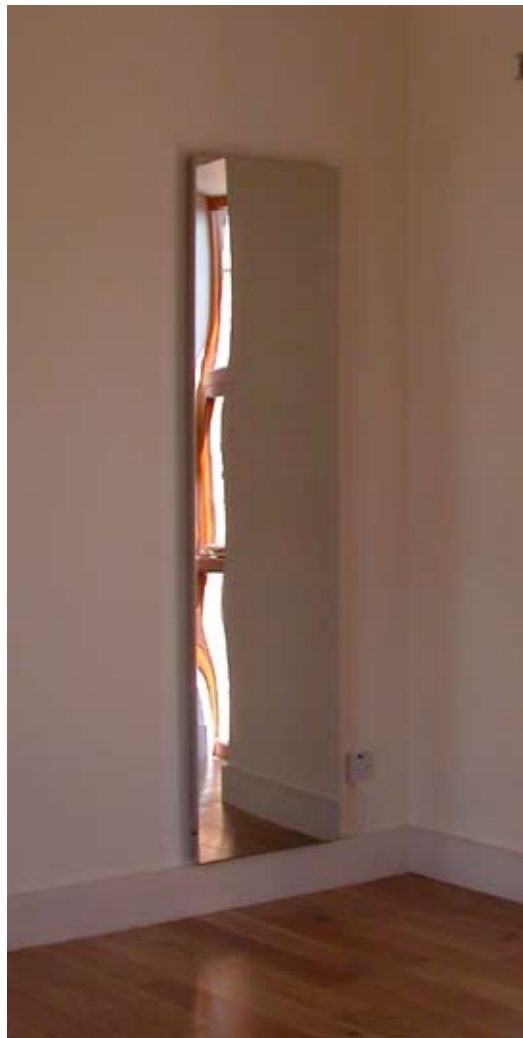


ALSO AVAILABLE AS HORIZONTAL



Uniclass L7522	EPIC L22
CI/SfB (56.84)	X

SPACE SAVING VERTICAL & HORIZONTAL RADIANT PANEL BRUSHED STAINLESS STEEL OR MIRROR FINISH with Wireless Time and Temperature Control



Uniclass L7522	EPIC L22
CI/SfB (56.84)	X

SPACE SAVING VERTICAL IP44 GLASS RADIATOR EBONY BLACK GLOSS

with Wireless Time and Temperature Control



Uniclass L7522	EPIC L22
CI/SfB (56.84)	X

SPACE SAVING VERTICAL IP44 MIRROR RADIATOR SILVER

with Wireless Time and Temperature Control



A new exciting and innovative product for the bathroom, hallway and bedroom!

Uniclass L7522	EPIC L22
CI/SfB (56.84)	X

COMPACT FAN ASSISTED ROOM HEATERS with Wireless Time and Temperature Control



POWDER COATED SILVER



POWDER COATED WHITE

• INCREDIBLY QUIET FAN (38dB) • 3 FINISHES • WIRELESS CONTROL



POLISHED MIRROR STAINLESS STEEL



BRUSHED STAINLESS STEEL

A simple to install wireless controlled heating system for the whole home.
Perfect for conservatories, village halls, schools and offices that require rapid warmth.
Mount the heaters 5 feet high to avoid bumping into them.

Uniclass L7522	EPIC L22
CI/SfB (56.84)	X



Wireless Heating Systems

HEALTHCARE LST 43°C FAN HEATER

Fan Assisted Heater with Wireless Time and Temperature Control



HOW THE 2KW FAN ASSISTED HEATER WORKS

The 2kW fan assisted heater is designed to work with the WCT100TX controller. Using a WCT100TX, every day of the week can have up to six different room temperature settings programmed for times to suit the occupants of the property concerned.

When 'Actual Temperature' shown in the WCT100TX display is below 'Target Temperature,' a radio signal pulse is sent to the heater thus calling for heat. Communication continues regularly whenever heating is called for.

When the actual temperature approaches the current target temperature, heating output will reduce in steps, and will cycle up and down depending upon room temperature variation.

The fan may drop if heat output requirement is low (approximately 400 watts or less) during which time the unit will function as a conventional convactor heater. Running costs will depend upon the room size, building type, insulation, whether windows are double glazed, etc.

**A simple to install wireless controlled heating system for the whole home and commercial applications.
Perfect for apartments, public areas, offices, showrooms, shops, nurseries, schools, retirement homes and healthcare!**

Uniclass L7522	EPIC L22
CI/SfB (56.84)	X

SPACE SAVING HORIZONTAL IP44 55°C RADIANT SCHOOL PANEL

with Wireless Time and Temperature Control



ECOLEC - Pioneering Heating

For more than ten years now, Richmond Villages, Warwickshire have pioneered Assisted Living. Residents have their own front door, living room, galley kitchen, plus bedroom and ensuite shower room. It's a real home from home, in a thriving community. Set within beautiful gardens and with it comes greater privacy and greater independence.

When it became necessary to replace the care homes old heating system, Richmond Village decided it would be appropriate to specify a 'pioneering' new heating system from Ecolec.

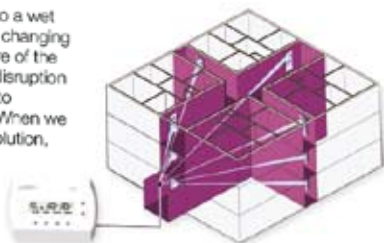
The Ecolec wireless controlled heating system was installed throughout the building, enabling the staff to set the temperature in corridors and communal areas, while giving the residents complete control of the temperature in their own rooms.

John Cashmore facilities manager at Richmond Villages, talks about the benefits of the Ecolec system: "The primary problem with traditional electric heating in a residential home environment, where some of the residents may have impaired sensory abilities, is that burns can all too easily occur. To ensure this risk is minimized, we need to ensure surface temperatures within the home do not exceed the government set standard."

John continues: "Changing to a wet heating system would mean changing the fundamental infrastructure of the building and causing major disruption to the lives of residents, not to mention the financial costs. When we looked to the market for a solution, the options were limited but The Ecolec system fitted the bill, whilst also being noise free and energy saving"

The Ecolec Wireless transmitter has been designed and manufactured to the following harmonised standard: ETSI EN 300 220-3 433.92 Mhz operating band and is compliant to "Waste Electrical & Electronic Equipment (WEEE) Regulations 2006"

Ecolec believe that installing properly controlled electric heaters can control the primary carbon footprint of our homes and properties.



Reducing your carbon footprint with ECOLEC®

At Ecolec we firmly believe that the primary carbon footprint of our homes and properties can be reduced by installing properly controlled electric heaters.

To achieve this:-

- 🔌 Heating times and temperatures must be managed well with different zones independently controlled.
- 🔌 You can take control of your heating energy by choosing Ecolec.
- 🔌 Use a Green Energy supply company.
Utilise renewable energy, solar, hydro and wind turbine.

Ecolec would help to reduce your secondary carbon footprint by:-

- 🔌 Using local suppliers.
- 🔌 Using 100% recyclable steel.
- 🔌 Avoiding toxic materials in our products.
- 🔌 Supplying heaters that can be repaired even after 15 years use.
- 🔌 Providing a heating system that can be installed by your local electrician more quickly and using far less components that would be required for a plumber installed wet system.
- 🔌 Supplying heaters that can be installed in difficult to reach areas where other systems may not be practical.

WHAT'S INVOLVED.....



It's easy to see how you can reduce carbon emissions.....



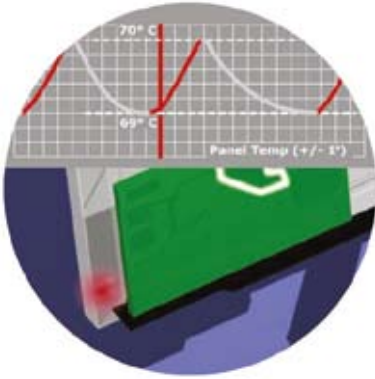
Tel: 01902 457575
www.ecolec.co.uk



*ECO1500D/RP/SS/RX/V
in brush finish stainless steel*

Preset Temperature Ranges

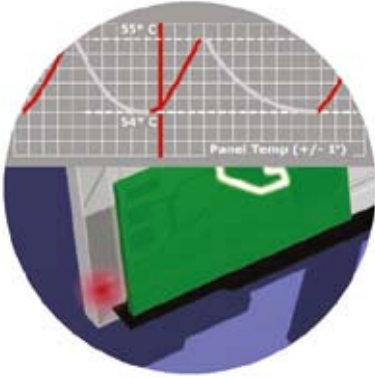
ON



OFF

Standard Range - 70°C

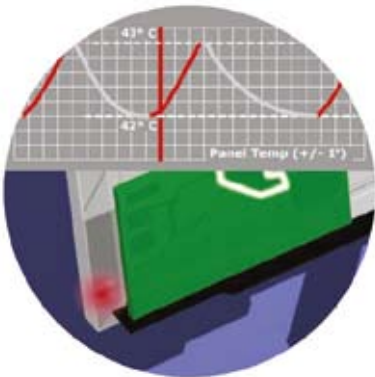
ON



OFF

Montessori Schools - 55°C

ON



OFF

NHS LST - 43°C



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V20

INTRODUCTION - ECOLEC PANEL HEATERS - THE PRODUCT

- Cost effective radiant heating provides comfort where you need it
- Ecolec designed and manufactured metal casing
- Ecolec designed and manufactured low - energy electric heating elements
- Ultra slim in depth, blends easily into the decor of any room
- Instant heat - the heaters reach temperature in minutes
- Range includes radiant and radiant/convector models
- Silent warmth with solid state electronic control
- Wall mounted - installed in minutes
- Maintenance free - sealed unit
- Certified to comply with recently introduced European standards with full CE certification
- Low running costs - independently certified - no energy waste
- A product of the EC - designed and manufactured in the West Midlands with pride
- Choice of surface temperature
- Warranty 2 years - return to base

CHART 1

BIMETAL THERMOSTAT (BMT) 80°C with 15°C Cyclic Control Band

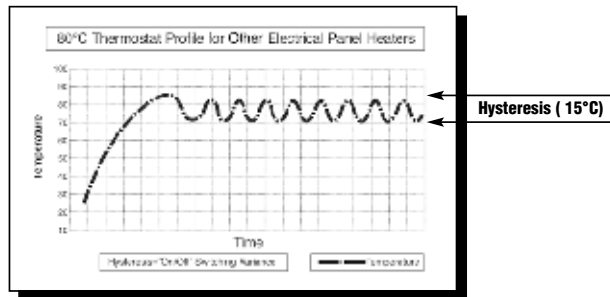
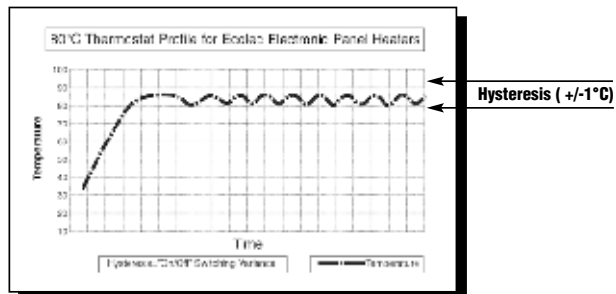


CHART 2

WIRELESS CONTROL THERMOSTAT (WCT) 43°, 55°, 70° or 80°C with 1°C Cyclic Control Band



PLEASE CONSULT AN ELECTRICIAN BEFORE YOU MAKE YOUR CHOICE



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V20

Flexible, expandable electric heating system incorporating a wireless thermostat, yes - no wiring at all Simple to use, wireless radio frequency programmable room thermostat

This wireless connection between the heater and thermostat means it can be installed in minutes, so easy to use and an attractive design and style. Works with any of the Ecolec RX range of heaters

The integrated control within the heater maintains not only the temperature of the heater surface but communicates with the thermostat to control the room temperature. Simpler to operate than the TV remote control.



Room temperature sensor fitted inside



- *Accurate room temperature control.*
- *Battery powered (at least one year with alkaline batteries).*
- *Flexibility to offer zoned control with more controllers.*
- *Controls single or multiple heaters from a single room thermostat.*
- *Receiver is integral in the heater control, no additional wiring required.*
- *Seven day program.*
- *6 time periods per day letting you set any temperature at any time of day.*
- *One wireless thermostat controls a large house.*
- *Boost - turns heater to 100% ON for 1/2/3 or 4 hrs.*
- *Range of thermostat - 30 metres.*



Space Saving Radiators + Precise Controls = Energy Saving Solutions

Quality Standards

UK/Europe

BS EN 60335-2-30 (1993)

BS EN 55014 (1993)

BS 3456: Part 2-02: Section 202-43 (1990)

BS EN 60335-2-43 (1989) & CE Approved

EC DIRECTIVE 89/336/EEC

BS EN 55022 (1998)

EMC EMISSION STANDARD:
INFORMATION TECHNOLOGY

BS EN 61000-3-2 (2001)

EMC EMISSION STANDARD: HARMONIC EMISSIONS

BS EN 61000-3-3 (1998)

EMC EMISSION STANDARD: FLICKER

BS EN 61000-6-1 (2001)

EMC IMMUNITY STANDARD:

RESIDENTIAL, COMMERCIAL AND LIGHT INDUSTRY

ETSI EN 300-220-1 (2000)

ETSI EN 301-489-1 (2002)

ERM SHORT RANGE DEVICES: RADIO EQUIPMENT

Ecolec is compliant to "Waste Electrical & Electronic Equipment
(WEEE) Regulations 2006"

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Distributor

please consult your local NICEIC electrician

"Sustainable means meeting the needs of the present without compromising
the ability of future generations to meet their needs."