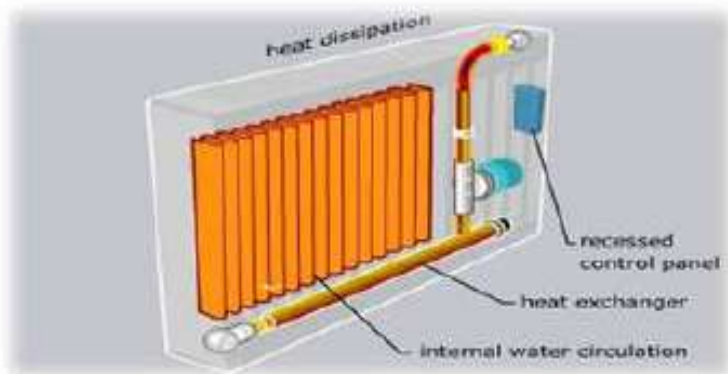




The Total Home Improvement Company

Manufacturers & installers of UPVC Bespoke windows, doors & Conservatories.
Specialists in Coloured Grained UPVC Profile & Composite Wood Effect Doors.
Bespoke Kitchen Design & Installation Service.
Building Services including Garage Conversions Small Extensions.
Electrical Work, Plumbing & plastering

Our unique easyheat electric radiator



Benefits over any other type of heating

Economical to run due to the unique way the thermostat sends energy to the heater. 10 seconds of energy used per minute.

Thermostatically controlled

Independent to you existing heating, with the option to turn on without having to turn on your main heating.

An advantage in the summer months when your main heating is off.

Aesthetically pleasing looks like a standard radiator in your home.

Easy to install only requiring single socket point.

Part L compliant recognised as being energy efficient by government body

No maintenance required.

cont



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QANWS insurance guarantee scheme. Co reg no 5743828. VAT no 728930117.

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Efficiency Questions

- **How long do the radiators take to heat up?**
Approximately 10 minutes.
- **Can the radiators be run on Economy 7?**
Yes the radiators can be run on Economy 7 however this tariff is designed for storage heaters and is not appropriate for HE radiators, as our radiators do not require a storage period. HE radiators can be run on the **low cost Economy 10 tariff** that is provided by Scottish and Southern Energy. This off-peak electricity is available from 12am-5am, 1pm – 4pm and 8pm – 10pm.
- **Are the radiators more economical than storage heaters?**
Heat Electric radiators are more efficient and economical than storage heaters. The radiators are direct acting and heat is produced quickly and efficiently. The radiators are totally controllable via the timer and thermostat. Storage heaters however offer background heat dissipation from the early morning charge yet the heat is often needed to be supplemented by direct electrical heaters on peak time electricity, increasing the cost*. (verification can be obtained on the National Energy Foundation website www.nef.org.uk/energyadvice).
- **What are the running costs of the radiators?**
The running cost of a 1Kw radiator on a standard rate is approximately 9p an hour.
- **Can the radiators be used in Europe?**
Yes the radiators can be used in European Union countries. However the voltage supply to the socket must be 230volts and the radiator plug must be changed to match foreign sockets.

Radiator Features Questions

- **How far do the radiators project from the wall?**
A total of 140mm (including bracket fixings)
- **How long is the cable length?**
A minimum of 1.5 metres
- **From which side does the cable feed from?**
As you look at the radiator on the wall, the cable feeds from the bottom right hand corner.
- **Which side are the controls located on?**
The Timer and dial thermostat are located on the right hand side of the radiator. No left hand option is available.
- **Are the radiators available in different colours?**
No – the radiators are supplied in a traditional radiator white (RAL9016)

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Installation and Maintenance Questions

- **How are the radiators mounted onto the wall?**
The brackets supplied with the radiator must be attached to the wall. Then mount the radiator onto the brackets and plug into a standard 13 amp socket.
- **Do the radiators come filled with water already?**
Yes. During production the radiators are filled with water and Fernox, which is a combination of rust inhibitor and anti-freeze. No additional water needs to be added.
- **Do the radiators need to be bled?**
No – no maintenance needs to be done to the radiators at all. The life expectancy of the radiators is 10 years.
- **Do the radiators require any wiring?**
No – simply plug into a standard 13 amp socket. If multiple radiators are installed into a dwelling please consult advice from a professional electrician.
- **Can the radiators be mounted vertically?**
No – the radiators must be wall mounted horizontally
- **Are the radiators suitable for bathroom installation?**
Only the standard and RF version can be used in bathrooms. The timer model does not have the correct IP rating and should not be installed into bathrooms.
- **Do you provide an installation service?**
No – however installation is straight forward, simply wall mount onto the brackets supplied, plug-in and switch on.
- **How long is the warranty period?**
12 months from date of purchase. The warranty in Europe is only valid on return to base (UK).

General

- **How long have the radiators been in the marketplace?**
The water filled radiators have been in the market since 2002 and have seen strong growth into the UK heating market, with Heat Electric becoming a significant market player. Numerous architect practises throughout the country are specifying the radiators, developers installing the units into apartment developments and residential customers throughout their properties.

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UK Running Costs

The radiators operate in continuous cycles of 5 minutes on and 3 minutes off. This cycle equates to approximately 40 minutes of electricity consumption per hour. The 40 minute running cost column therefore indicates the most accurate cost per hour. The heat up period consumes a higher amount of electricity; depending on the size of the radiator this could be up to 15 minutes.

One Hour Cost

This will be the approximate cost per hour to run a radiator should the room have low insulation levels and a high volume of people throughput/ door opening.

40 Minute Cost

This will be the approximate cost per hour to run a radiator should the room have efficient insulation and a medium volume of people throughput/ door opening.

20 Minute Cost

This will be the approximate cost per hour to run a radiator in ideal conditions i.e. no drafts, high quality insulation and limited people throughput/ door opening.

RADIATOR MODEL NO	INPUT kW	1 Hr cost pence	40 mins cost pence	20 mins cost pence
3100	0.9	8.1p	5.4p	2.7p
3140	1.5	13.5p	9.0p	4.5p
3160	1.5	13.5p	9.0p	4.5p
3200	2.0	18p	12p	6.0p
4100	1.5	13.5p	11.0p	5.5p
4140	2.0	16.4p	11.0p	5.5p
4160	2.0	16.4p	11.0p	5.5p
4200	2.8	25.2p	16.8p	8.4p
6040	0.9	8.1p	5.4p	2.7p
6060	0.9	8.1p	5.4p	2.7p
6080	1.5	13.5p	9.0p	4.5p
6100	2.0	18p	12p	6.0p
6140	2.8	25.2p	16.8p	8.4p
6160	2.8	25.2p	16.8p	8.4p

- Approximate running costs per hour assume correct radiator size in relation to heat losses
- one-kilowatt hour to equal 9.0 pence (including vat),
- 9 pence is based on Scottish and Southern Energy General Tariff
- These running costs should be used as a guideline only and are not definitive. Running costs will differ slightly depending on the tariff of electricity suppliers.

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Comparison of heat output provided by a storage heater & direct acting heater combination with an HE 6060 model.

Storage Heater (Using Economy 7)

The maximum heat output of a standard 2.55kW storage heater at the end of a storage period is 1kW. To maintain the heat at 1kW output, the storage heater needs topping up with an additional heater during the day using day rate electricity.

The total top up required during the day amounts to 4.1 units of electricity.
The total consumption of electricity by the storage heater operating to maintain 1kW output during the day may be calculated using Economy 7 tariffs as follows.

Storage heater: 2.55kWh for 7 hours at 4.01p per kWh = **71.57p**
Direct heater: 4 kWh at 9p per kWh = **36p**

Storage heater daily running cost = 71.57p + 36p = 1.07p

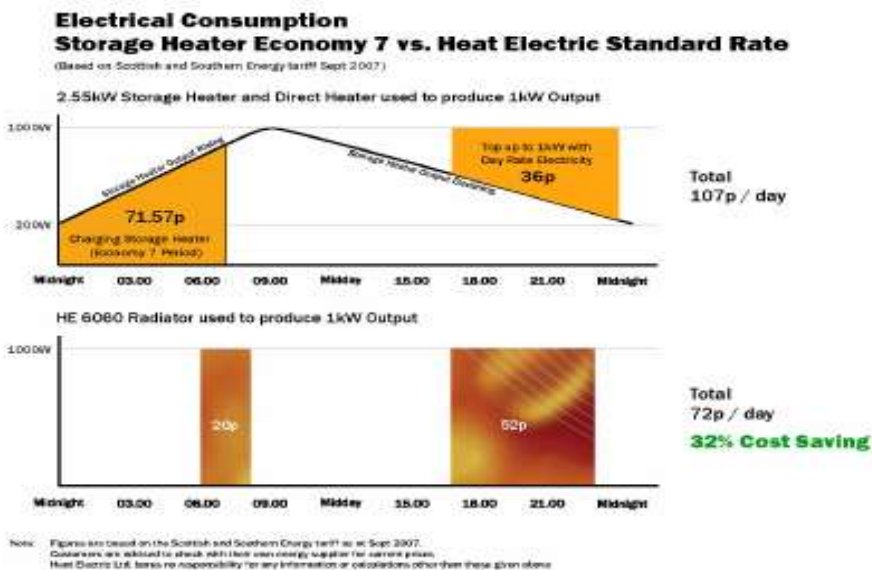
HE Radiator (Using Standard Rate)

The running cost for 8hrs of a 1kW HE radiator is 9p per hour on standard rate electricity tariff.

HE radiator: 8hrs x 9p = **72p**

Against the storage heater this equates to a 32% cost saving*.

Therefore, for virtually the same running costs as with storage heating, consumers can gain extra hours of usable heat. The HE radiator can be run for 10 - 12 hours continuously, providing much greater heat controllability and less energy wastage than with storage heaters.



Electricity tariffs (Sept 07) are based on and provided by Southern Electric, part of Scottish and Southern Energy Group
* under ideal conditions 32% is an achievable saving, however due to differing heat requirements and dwelling insulation levels this figure may reduce. However a 15% saving is expected as a minimum.



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Part L of the Building Regulations

The recent changes to Part L of the Building Regulations aim to improve the energy efficiency of buildings, thereby reducing carbon emissions. A holistic approach has been adopted, taking into account the complete fabric of buildings.

Part L aims to conserve fuel and power by;

1. Limiting heat loss through the building fabric
2. Providing energy efficient heating systems with effective controls
3. Providing the owner with sufficient control information to eliminate wastage

With renewable energy growing in importance and availability, electric heating is becoming an increasingly attractive option to developers. Below are some of the **benefits of electric heating;**

- Electricity is 100% efficient – eliminating wastage.
- Electric heaters are simple and cheap to install – unlike gas and oil
- Electric heating appliances can be installed anywhere with a power supply
- Electric heating systems can be used with low electricity tariffs helping to improve SAP ratings
- Controlled on a room-by-room basis, reducing electricity waste.

The latest changes positions Heat Electric in a prominent position for supplying electric heating systems to future new buildings. Below are some reasons why Heat Electric water filled radiators will make life easier for builders and developers to comply with the challenges of Part L.

- ⇒ Part L states that heating systems must be installed with zone and timing controls. HE radiators are supplied with an integrated **7 day programmable timer and thermostat**. Allowing each radiator to be programmed individually and therefore control room temperatures independently. This feature enables the property heating to respond on a room-by-room basis, complying with the requirement.
- ⇒ The control features also lead to improved **heating controllability** and energy efficiency as each radiator can be programmed and individual rooms thermostatically controlled. This avoids the wastage of excessive or unnecessary heat.

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- ⇒ The flexible and sophisticated controllability of HE radiators result in **energy efficient heating**, resulting in **lower carbon emissions** from the dwelling.
- ⇒ Heat loss through pipes must also be reduced in dwellings. HE radiators require **no pipe-work** and so heat loss is drastically reduced in this respect.
- ⇒ HE radiators can be used with the **low cost energy tariff Economy 10** helping to lower carbon emissions.
- ⇒ With HE radiators no flue is required unlike gas/oil heating systems. Where provision for a flue is required, this must be acceptable to the Planning Officer and in relation to Part J, the flue must be clear of any windows. This is particularly difficult for apartments. Our radiators therefore completely remove this issue.
- ⇒ Part L states that heating systems must be provided with operating and maintenance controls. All HE radiators are supplied with user-friendly operating instructions, meeting this requirement.

Benefits over other forms of heating

- A unique water filled electric radiator – the radiator heats the air via radiant and convected heat. This combination dissipates heat faster throughout the room.
- Combines the heat output benefits of a gas wet system with the simplicity and ease of electric heating installation.
- Storage heaters/panel heaters burn the moisture in the air creating stuffiness. Our radiators create a comfortable and healthy atmosphere with no stuffiness.
- The radiators are direct acting and reach a surface temperature of 70°C within a rapid 10 minutes.
- Control features allow for complete heat controllability and eliminate wastage.
- Economical and efficient as virtually all the electricity drawn is converted into heat and the radiators do not constantly draw electricity.
- Greater levels of efficiency than storage heaters, approximately 20% more efficient than storage heaters
- The radiator shell is identical to a conventional gas wet system therefore the radiator matches existing radiators and is more aesthetically pleasing.
- No unsightly protruding control knobs on the side of the radiator.
- Available with Low cost energy tariff Economy 10 significantly lowering running costs even further. This is available from 1pm – 4pm, 8pm -10pm and midnight to 5am.

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Case Study: Parkville Developments

Parkville Developments are experts in the conversion of redundant retail and office space into residential properties.

Due to the complications of upgrading and connecting gas wet systems, Parkville took the policy of going 'all electric' on their properties. However Parkville desired a heating system that was modern, efficient and controllable rather than outdated storage heaters.

Having researched the electric heating market Parkville identified the Heat Electric water filled radiators as the perfect solution. The radiators uniquely provided Parkville with the heat quality of a gas wet system combined with the simplicity and ease of installation of electric heating.

The radiators also projected a contemporary image, helping to fit well with the internal ambience of the properties. Complete with the wireless programmer users have complete control over their heat requirements.

Parkville has recently installed 40 radiators into two projects and is specifying the radiators for future developments across the UK.

Simon Braun, Director;

'We required a heating system that would remove all the obstacles and hassle involved with a traditional gas system and the inefficiencies of conventional electric heating. The Heat Electric radiator has transformed the heating market and more than satisfies all our requirements; it is easy to install and cost effective to run. It complies with the building regs and produces quality heat.'



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List Cost

Model	Model Number	Height (mm)	Length (mm)	Input (kW)	Weight (Kg approx)	Heat Electric Radiator Trade Prices
Radio Frequency Remote Control (Multiple radiators can be controlled from a central point through the purchase of a 24/7 Radio Frequency Remote Control)	3100 RF	300	1000	0.9	25	£375
	3140 RF	300	1400	1.5	33	£400
	3160 RF	300	1600	1.5	39	£425
	3200 RF	300	2000	2.0	45	£450
	4100 RF	400	1000	1.5	33	£375
	4140 RF	400	1400	2.0	44	£400
	4160 RF	400	1600	2.0	50	£425
	4200 RF	400	2000	2.8	61	£450
	6040 RF	600	400	0.9	24	£360
	6060 RF	600	600	0.9	29	£375
	6080 RF	600	800	1.5	40	£380
	6100 RF	600	1000	2.0	50	£415
	6140 RF	600	1400	2.8	60	£440
6160 RF	600	1600	2.8	70	£460	

24 Hour Inbuilt Timer	3100 T	300	1000	0.9	25	£375
	3140 T	300	1400	1.5	33	£400
	3160 T	300	1600	1.5	39	£425
	3200 T	300	2000	2.0	45	£450
	4100 T	400	1000	1.5	33	£375
	4140 T	400	1400	2.0	44	£400
	4160 T	400	1600	2.0	50	£425
	4200 T	400	2000	2.8	61	£450
	6040 T	600	400	0.9	24	£360
	6060 T	600	600	0.9	29	£375
	6080 T	600	800	1.5	40	£380
	6100 T	600	1000	2.0	50	£415
	6140 T	600	1400	2.8	60	£440
6160 T	600	1600	2.8	70	£460	

Low Surface Temperature (complies with regulations for care homes, hospitals etc)	HE6040LST	700	500	0.9	29	£468
	HE6080LST	700	1000	1.5	47	£515
	HE6100LST	700	1100	2.0	60	£568
	HE6140LST	700	1500	2.8	70	£599

Radio Frequency Remote Controller (24/7 programmable Control)	RFC1	97	133	433MHz		£75
Radio Frequency Remote Controller (24 hour simplified control)	RFC3	97	133	433MHz		£75

All Prices are exclusive of VAT. Price list correct as at 1st January 2011.
 The Low Surface Temperature model requires an RF Controller to operate.
 Delivery charges may apply.



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