

# Elegant, Efficient & Controllable.

Be in little doubt I believe our product to be the **"Best Value for Money"** heating product on the market. My analogy of value for money is the cost to purchase when compared with the following qualities of our product:-

- Heat output on a par with the best.
- Control without doubt the best on the market.
- Running costs that can make it a realistic substitute for gas.
- Installation ---- a full house in less than a day.
- No mess, No fuss, No Pipes.

## How It Works

All Economy Radiators use similar technology to provide responsive, efficient electric heating. Four key components work together to produce the extremely high levels of ENERGY EFFICIENCY that make these radiators truly unique.

Each radiator is fitted with a Tungsten heating element that absorbs energy quickly but slowly emits heat to the fluid, therefore maximising power usage.

Each radiator is filled with a Thermo-Dynamic Gel which is designed to rapidly heat up and expand to cover the entire heat exchange surface, resulting in 100% hot point effect. The Thermo-Dynamic Gel also has high heat retention which allows the energy absorbed to be used for the maximum period of time.

Each radiator is fitted with its own intelligent thermostat that allows manual or automatic control as required. Each thermostat is equipped with a lockable option.

Each radiator can be controlled 24 hours per day, multi time / multi temperature.

Either switching on and off, or much better to allocate a set back or lower temperature when the room is not in use this being the most energy efficient.

When operational, the radiator will draw full power until the required temperature (set on the thermostat) is achieved. This is normally within 10 minutes. At this point, the radiator will cease drawing power. The Thermo-Dynamic Gel will have rapidly expanded and the radiator will now have 100% hot point effect. Due to the elements slow release of power and the fluid's heat retention qualities, the radiator will continue emitting heat.

At some point, the radiator will drop below temperature, the thermostat senses this and requests the element to draw more power. Intelligently, the radiator calculates exactly how much power is needed to return the temperature back to the desired level and therefore, will only draw that exact amount.

For example, if a 1000w radiator has dropped below the desired temperature and the radiator has sensed that only 250w are required to return it to the desired level, then the radiator only draws 250w and not 1000w.

Subsequently, by a radiator sensing when temperature is reached and ceasing power and then only drawing the exact amount of power as and when required, it uses power consumption in the most efficient way possible.

Therefore, when a 1000w radiator is installed in a room that has been calculated to require a 1000w radiator, if switched on for 8 hours to maintain a room temperature of 21 degrees, it will only use approx. 3 hours of electricity.

See the actual running costs overleaf.



## Elegant, Efficient & Controllable.

**Our test results for running costs supported by customers written or verbal confirmation show :-**

Compared to storage a far more realistic experience with superior levels of heat & control.

Running costs that could make our product a realistic substitute for gas.

**You NEED the very best components as used in Royale Radiators :-**

Pure grade finest quality Italian Aluminium	Minimum energy for Maximum heat dissipation
Fire retardant control panel and wiring	No compromise for Maximum safety
UV Resistant materials	No colour Fading from sunlight for Maximum longevity
"State of the art" electronics	Minimum energy for Maximum cost effective running
Multiple testing throughout production	Minimum mistakes for Maximum life expectancy

## Our Competition :-

There are numerous look a like products but very few will perform as ours will, the vast majority use much lower grade materials which will under perform and disappoint.

Many provide much lesser controllability essential for the energy efficiency.

For instance :-

Chinese copies from big name catalogue companies	inferior materials and technology.
German ceramic products	good heat and running costs but very poor controls.

Not convinced yet our product is the best value for money then read on, see a true real live example of running costs in real live weather conditions...

Witness the boffins official scientific laboratory controlled tests ...

**the economy-radiator company**

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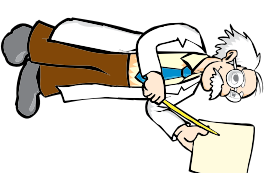
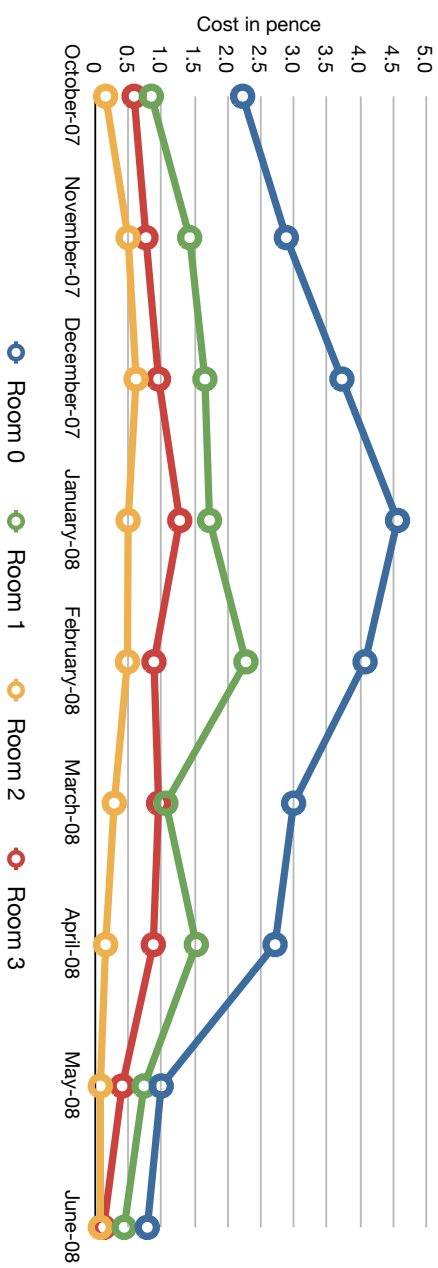
# The Test

The Grange Bungalow  
 2 bedroom plus large living room  
 and external badly insulated office  
 (5 rooms), the tenants are in all day.  
 Temperature setting: Daytime 22  
 Degrees, Night 18 Degrees

This is my own property as an exact  
 measured consumption.  
 The heating is on 365 / 24 hours a  
 day (never switched off).

# The Results

Running cost per Hour



Start date 24.04.07		14.09.07		06.10.07		20.10.07		18.11.07		11.12.07		19.01.08		23.02.08		22.03.08		27.04.08		20.05.08		22.06.08		
Accumulative Reading Kwh	167	290	384	636	905	1441	1970	2141	2436	2506	2585	2506	2585	2506	2585	2506	2585	2506	2585	2506	2585	2506	2585	
Period Consumption Kwh	167	123	94	252	269	536	429	35	30	30	36	36	36	36	36	36	36	36	36	36	36	36	36	
Period In Days	14.3	14	14	29	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	
Cost Kwh x 0.08p	£13.36	£9.84	£7.52	£20.16	£21.52	£42.88	£34.32	£27.68	£28.60	£28.60	£28.60	£28.60	£28.60	£28.60	£28.60	£28.60	£28.60	£28.60	£28.60	£28.60	£28.60	£28.60	£28.60	£28.60
Cost per month	£2.80	£13.42	£16.11	£20.86	£26.90	£23.98	£29.42	£27.68	£27.30	£27.30	£27.30	£27.30	£27.30	£27.30	£27.30	£27.30	£27.30	£27.30	£27.30	£27.30	£27.30	£27.30	£27.30	£27.30
Cost per day	£0.0039	£0.45	£0.54	£0.86	£1.10	£0.90	£1.10	£0.98	£0.72	£0.72	£0.72	£0.72	£0.72	£0.72	£0.72	£0.72	£0.72	£0.72	£0.72	£0.72	£0.72	£0.72	£0.72	£0.72
Cost per hour	£0.00039	£0.0186	£0.0224	£0.0290	£0.0374	£0.0458	£0.0409	£0.0301	£0.0273	£0.0273	£0.0273	£0.0273	£0.0273	£0.0273	£0.0273	£0.0273	£0.0273	£0.0273	£0.0273	£0.0273	£0.0273	£0.0273	£0.0273	£0.0273

Start date 20.08.07		14.09.07		06.10.07		20.10.07		18.11.07		11.12.07		19.01.08		23.02.08		22.03.08		27.04.08		20.05.08		22.06.08	
Accumulative Reading Kwh	27	75	111	236	356	560	800	897	1063	1115	1160	1160	1160	1160	1160	1160	1160	1160	1160	1160	1160	1160	1160
Period Consumption Kwh	27	48	36	125	120	204	240	97	166	52	45	33	33	33	33	33	33	33	33	33	33	33	33
Period In Days	25	22	14	29	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
Cost Kwh x 0.08p	£2.16	£3.84	£2.88	£10.00	£9.60	£16.32	£19.20	£7.76	£13.28	£4.16	£3.60	£3.60	£3.60	£3.60	£3.60	£3.60	£3.60	£3.60	£3.60	£3.60	£3.60	£3.60	£3.60
Cost per month	£2.59	£5.24	£5.17	£10.34	£12.00	£12.55	£16.46	£7.76	£11.07	£5.43	£3.27	£3.27	£3.27	£3.27	£3.27	£3.27	£3.27	£3.27	£3.27	£3.27	£3.27	£3.27	£3.27
Cost per day	£0.09	£0.45	£0.17	£0.21	£0.34	£0.40	£0.42	£0.55	£0.37	£0.18	£0.11	£0.11	£0.11	£0.11	£0.11	£0.11	£0.11	£0.11	£0.11	£0.11	£0.11	£0.11	£0.11
Cost per hour	0.0036	0.0073	0.0066	0.0144	0.0167	0.0174	0.0229	0.0108	0.0154	0.0075	0.0045	0.0045	0.0045	0.0045	0.0045	0.0045	0.0045	0.0045	0.0045	0.0045	0.0045	0.0045	0.0045

Start date 20.08.07		14.09.07		06.10.07		20.10.07		18.11.07		11.12.07		19.01.08		23.02.08		22.03.08		27.04.08		20.05.08		22.06.08	
Accumulative Reading Kwh	5	18	25	69	99	114	174	226	253	271	277	277	277	277	277	277	277	277	277	277	277	277	277
Period Consumption Kwh	5	13	7	44	45	60	60	52	27	18	6	9	9	9	9	9	9	9	9	9	9	9	9
Period In Days	25	22	14	29	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
Cost Kwh x 0.08p	£0.40	£1.04	£0.56	£3.52	£3.60	£4.80	£4.16	£3.16	£1.44	£0.48	£0.72	£0.72	£0.72	£0.72	£0.72	£0.72	£0.72	£0.72	£0.72	£0.72	£0.72	£0.72	£0.72
Cost per month	£0.48	£1.42	£1.20	£3.64	£4.50	£3.69	£3.57	£2.16	£1.20	£0.63	£1.02	£1.02	£1.02	£1.02	£1.02	£1.02	£1.02	£1.02	£1.02	£1.02	£1.02	£1.02	£1.02
Cost per day	£0.02	£0.05	£0.04	£0.12	£0.15	£0.12	£0.12	£0.07	£0.04	£0.02	£0.02	£0.02	£0.02	£0.02	£0.02	£0.02	£0.02	£0.02	£0.02	£0.02	£0.02	£0.02	£0.02
Cost per hour	0.0007	0.0020	£0.0017	£0.0051	£0.0063	£0.0051	£0.0050	£0.0030	£0.0017	£0.0009	£0.0009	£0.0009	£0.0009	£0.0009	£0.0009	£0.0009	£0.0009	£0.0009	£0.0009	£0.0009	£0.0009	£0.0009	£0.0009

Start date 20.08.07		14.09.07		06.10.07		20.10.07		18.11.07		11.12.07		19.01.08		23.02.08		22.03.08		27.04.08		20.05.08		22.06.08	
Accumulative Reading Kwh	8	35	60	128	198	349	444	531	627	656	670	656	670	656	670	656	670	656	670	656	670	656	670
Period Consumption Kwh	8	27	25	68	70	89	95	87	96	29	14	14	14	14	14	14	14	14	14	14	14	14	14
Period In Days	25	22	14	29	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
Cost Kwh x 0.08p	£0.64	£2.16	£2.00	£5.44	£5.60	£7.12	£7.60	£6.96	£7.68	£2.32	£1.12	£1.12	£1.12	£1.12	£1.12	£1.12	£1.12	£1.12	£1.12	£1.12	£1.12	£1.12	£1.12
Cost per month	£0.77	£2.95	£2.29	£6.53	£6.70	£8.29	£8.51	£7.66	£8.40	£2.63	£1.02	£1.02	£1.02	£1.02	£1.02	£1.02	£1.02	£1.02	£1.02	£1.02	£1.02	£1.02	£1.02
Cost per day	£0.03	£0.10	£0.14	£0.19	£0.23	£0.31	£0.22	£0.23	£0.21	£0.10	£0.03	£0.03	£0.03	£0.03	£0.03	£0.03	£0.03	£0.03	£0.03	£0.03	£0.03	£0.03	£0.03
Cost per hour	0.0011	0.0041	£0.0060	£0.0078	£0.0097	£0.0129	£0.0090	£0.0097	£0.0089	£0.0042	£0.0014	£0.0014	£0.0014	£0.0014	£0.0014	£0.0014	£0.0014	£0.0014	£0.0014	£0.0014	£0.0014	£0.0014	£0.0014

Average cost per hour (per room average) **£0.0107**

Cost per hour All Four Rooms **£0.0429**

Cost All Four Rooms per day **£1.03**

Cost per All Four Rooms per month **£31.10**

All statements made are our "own opinion" based on the real life and published running costs of four test rooms which we measured on our own premises.