How It Works

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

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

- Each radiator is filled with a Thermo-Dynamic fluid 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 fluid 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 control if required. Each thermostat is equipped with a lockable option, thanks to the electromagnetic key supplied with each radiator.

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 fluid 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 operates 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 12 hours to maintain a room temperature of 21 degrees, it will only use approx. 5 hours of electricity.

Elegant, Efficient & Controllable.

Control

The manufacturer invested heavily to develop the wireless programmer, which provides the ultimate in control for your central heating system.

Each radiator is fitted with a radio receiver that communicates with the wireless programmer. Thus allowing the user to control any radiator, anywhere in the home.

The wireless controller allows for each radiator to be set up individually with a 24 hour, 7 day programmer. The user can also pre-set the comfort level temperature and background temperature of each radiator independently.

For example, the lounge radiator could be set at 21 degrees from 4pm to 6pm and at 17 ½ degrees from 6pm to 10pm, the hall radiator could be set at 18 degrees from 5pm to 7pm and at 14 ½ degrees from 7pm to 11pm, the bedroom radiator could be set at 14 ½ degrees from 4pm to 8pm and 18 degrees from 8pm to 10pm.

This level of control is unrivalled and is designed to allow the user to maximise their efficiency in their use of power consumption. Additionally, whilst saving money by using energy more efficiently, the user is also maintaining comfortable levels of heat throughout the home at all times of the day.

The programmer is easy to use features are fully detailed in the user guide we have briefly listed a summery of these features :-

- 24 hour / 7 day programmer for each radiator
- Temperature – allows the user to change the temperature of any radiator anywhere in the home
- Over-ride – allows the user to turn any radiator on or off or to change from comfort level to background level or to frost protection mode.
- Locking – allows the user to lock any individual radiator

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