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Approximate Running Costs of a HeartSafe® Digital Electronic Lock Exterior Cabinet

For those of you who want to know more details about the running costs, we have put together information that you may find helpful and why our craftsman engineered cabinet is believed to be the best choice of AED cabinet available to house your defibrillator.

The Digital Electronic Lock Exterior Cabinet is fitted with a 100W frost heater to protect the defibrillator from extremely low temperatures. This heater only switches on for short 15 to 20 minute periods when the temperature drops below 5°C during the winter time to maintain the air temperature in the cabinet above 5°C, and typically the defibrillator above 8-10°C. The rest of the year, electricity usage by the cabinet is absolutely minimal.

Cabinet...Results

A test cabinet has been fitted to a Smart Electricity meter, and has been running for just over 1 year. The average cost per day based on a kWh unit cost of £0.165p averages £0.011p per day, so about £4.01 per year would be a good estimate.

Type 1 Overhead Bulkhead Light Unit with dusk to dawn sensor

According to the Met office, based on the average number of daylight hours there are in the UK, then there are around 4300 hours of darkness in a 365 day year.

As the light is fitted with a dusk to dawn light sensor, we can assume that it is functional only when it is dark, ie. only during these 4300 hours per year.

The latest light fitting we supply uses a 7W E27 LED Bulb so according to the formula:

$E(\text{kWh}) = P(\text{W}) \times t(\text{hr}) / 1000$ will consume:

$$(7 \times 4300) / 1000 = 30.1 \text{ kWh}$$

So based on the same electricity cost of £0.165 per kWh, the overhead light will use £4.97p of electricity in a year.

In summary a Digital Combination lock package with overhead light = approx. £8.98 per year to run....assume £10 per year...a small amount to pay for 365 days of reassurance.

Affiliated to:



HeartSafe®
The UK's leading provider of Public Access Defibrillators (PADs)
solutions, protecting communities, uniquely monitored and
linked with NHS Ambulance Trusts

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Type 2 - Overhead Bulkhead Light Unit with 1W LED Ball Bulb permanently on

This fitting uses a 1W E27/ES LED ball bulb in green.

Using the formula $E(\text{kWh}) = P(\text{W}) \times t(\text{hr}) / 1000$ it will consume:

$$(1 \times 8760) / 1000 = 8.76 \text{ kWh}$$

So based on the same electricity cost of £0.165 per kWh, the overhead light will use £1.44p of electricity in a year.

In summary a Digital Combination lock package with this overhead light = approx. £5.45 per year to run....assume £7 per year...a small amount to pay for 365 days of reassurance for all weather occasions.

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