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## Smart Cabinets Electrical Information Factsheet

### NETWORK CONNECTION

We recommend a dual channel network connection for each cabinet to ensure maximum reliability of connectivity, and dual redundancy even in remote areas.

1. PRIMARY – Hard wired Ethernet LAN connection to Router or Network switch. Your router needs to be configured as a DHCP server (normal in most installations). In 95% of installations, you simply plug in the cabinet, and it connects to our secure server in about 15 seconds without ANY further settings or additional setup. There is no need to configure any IP addresses or anything else. In the rare instances where the cabinet cannot connect, it is normally resolved with some simple changes to the router configuration.
2. SECONDARY – 3G/GPRS connection over the Wireless mobile phone network. Each cabinet is fitted with a Mobile SIM card – we ask you to confirm the best network in the installation location, so we can put the SIM card in there from the best network provider (EE, Vodafone, O2 etc). We also provide a professional grade antenna for the installation to further boost the GSM signal.

Although connection via WiFi is technically possible, we have tended to stay away from this as all the cabinets are a permanent installation, and a hard wired Ethernet cable gives much better reliability. We use the GSM/GPRS wireless connection as the redundant communication backup.

### DATA BANDWIDTH

Each cabinet is constantly connected to our secure server, but uses extremely small packets of data to communicate. The data required to monitor the defibrillator and cabinet, and to control it in case of activation by the ambulance Service is tiny. Typically 5Mb per month. It is negligible on a LAN connection as we recommend.

### NETWORK SECURITY

The communications controller used inside the HeartSafe® Smart Cabinet is designed from ground up as a secure networked device, using well researched and broadly accepted methods for secure communications. It cannot be “hacked” and is immune to viruses and Trojans. Most importantly, it will not allow any external access to your network, or cause harm to any network. It does not represent any network security risk. We have these cabinets installed on Universities, Police Stations, Supermarkets etc without any issue.

Affiliated to:



**AED LOCATOR (E.U.) LTD.**

A company promoting a national database of Public Access Defibrillators (PADs) in communities and providing external weatherproof secure HeartSafe™ Cabinets, Signs and Defibrillators.





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## POWER

### Cabinet

Your electrician will need to provide a dedicated fused spur for the cabinet and overhead light to be permanently wired into. This spur should be fused at no more than 3A.

The 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. The rest of the year, electricity usage by the cabinet is minimal.

Our test cabinet in Bristol is 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 £0.023p per day, so about £8.40 per year would be a good estimate.

### Overhead Bulkhead Light

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, i.e. 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 Smart Cabinet package with overhead light = approx. £13.37 per year to run....assume £15 per year....a small amount to pay for 365 days of reassurance.

