



# Brixham Town Council

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**Town Clerk: Mrs Tracy Hallett**

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<b>Report Type</b>	Public	<b>Meeting</b>	F&GP
<b>Contact Officer</b>	Tracy Hallett	<b>Job Title</b>	Town Clerk
<b>Report Title</b>	Defibrillators		

## Summary

An Automated External Defibrillator (AED) is a portable life saving device that can give a casualty's heart an electric shock, when it has stopped beating normally in a sudden cardiac arrest.

A defibrillator works by checking the casualty's heart rhythm once the defibrillator pads are placed on their chest and giving them a shock if needed.

By using a defibrillator before an ambulance arrives, you can significantly increase someone's chance of survival.

It is understood that cardiopulmonary resuscitation (CPR) has very little chance of bringing someone back to life after cardiac arrest, while an AED has the potential to restart their heart and brain functions. According to information sourced online<sup>1</sup>, use of AEDs within three minutes of a cardiac arrest can improve a person's chance of survival as much as 70%.

The closest AED is located at the library in Market Street, but given the age demographic of users to the Town Hall, it is considered that valuable time will be lost in collecting the AED.

## Recommendation

1. It is recommended that the Town Council purchase
  - The Heartsine Samaritan Automated External Defibrillator
  - A lockable cabinet
  - An AED responder kit
  - Replacement adult pad
  - Required signage
2. It is further recommended that:
  - the AED is registered with NHS South West Ambulance Service Foundation Trust (SWASFT)
  - Training for Council staff and interested tenants. A best value course will be sourced and if there is a cost, tenants will be charged for the number of spaces they require

Total anticipated cost £1,000.




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<sup>1</sup> St. John Ambulance

The AED will be installed in a central location within the building to facilitate the Council and its tenants. The combination lock will not be shared with anyone other than SWASFT to ensure that the AED can be accessed quickly to help save lives.

### Cost of Defibrillators

The cost of AED can vary, depending on the model and its features. All of the following are fully automatic.

Model	Defibtech Lifeline	Cardiac Science Powerheart G5 *	Heartsine Samaritan PAD
			
<b>Price</b>	£945	£1,045	£695
<b>Warranty</b>	8 years	8 years	10 years
<b>Battery Shelf Life</b>	7 Years	4 years	N/A -combined with pads
<b>Battery Replacement Price</b>	£299	£248.50	N/A -combined with pads
<b>Pad Shelf Life</b>	2 years	2 years	4 years
<b>Adult Pad Replacement Price</b>	£41	£45	£94
<b>Soft Case Included</b>	No	Yes	Yes
<b>Cabinet (locks are separate)</b>	£229	£220	£149
<b>IP Rating</b>	IP54	IP55	IP56
<b>Features</b>	<ul style="list-style-type: none"> <li>• <u>Fully automatic</u> operation : delivers a shock without manual intervention</li> <li>• Supplied with one set of adult pads, batteries</li> <li>• <u>AED Defibrillator Responder Kit</u> available separately</li> <li>• 8 year manufacturers</li> </ul>	<ul style="list-style-type: none"> <li>• <u>Fully automatic</u> operation - automatically delivers a shock, if needed</li> <li>• Supplied with one set of <u>adult electrode pads, battery</u> and software</li> <li>• <u>AED Defibrillator Responder Kit</u> available separately</li> </ul>	<ul style="list-style-type: none"> <li>• <u>Fully automatic</u> operation - automatically delivers a shock, if needed</li> <li>• Supplied with a <u>combined battery &amp; electrode cartridge</u>, carry case</li> <li>• <u>AED Defibrillator Responder Kit</u> available separately</li> </ul>

	<p>warranty on the defibrillator unit</p> <ul style="list-style-type: none"> <li>• Available with <u>Standard</u> or <u>High Capacity</u> standby battery option</li> <li>• 2 year electrode pad life (from date of manufacture)</li> <li>• Daily automatic self tests performed by the unit</li> <li>• Uses advanced biphasic technology - automatically adjusts shock delivery according to the patient's individual needs</li> <li>• Single push button on/off operation</li> <li>• Features clear visual and voice prompts to help calm the responder</li> <li>• Easy to follow step-by-step process</li> <li>• CPR metronome sounds the correct rate for compressions</li> <li>• Pre-connected <u>adult defibrillator pads</u> ensure quick use in an emergency</li> <li>• Manufactured to <u>IP54 rating</u> to withstand dust and water ingress</li> <li>• Rubberised handle and sides for impact protection</li> <li>• Portable and lightweight</li> <li>• Stores event data internally for analysis at a later date</li> <li>• Suitable for treating young patients when fitted with <u>paediatric pads</u> (sold separately)</li> </ul>	<ul style="list-style-type: none"> <li>• 8 year manufacturers warranty on the defibrillator unit</li> <li>• 4 year battery standby life</li> <li>• 2 year electrode pad life (from date of manufacture)</li> <li>• Daily, weekly and monthly automatic self tests performed by the unit</li> <li>• Energy levels are increased should the initial lower dose shock be unsuccessful</li> <li>• Robust <u>IP55 rated</u> design for high resistance against dust and moisture</li> <li>• Provides LED indication for visual assurance that the defibrillator is fully functional</li> <li>• Battery status indicator shows the remaining battery capacity</li> <li>• <u>Non-polarized adult pads</u> help to save time in an emergency</li> <li>• Available with iCPR device (CPR) feature: provides real-time CPR feedback for correct compression rate and depth</li> <li>• Stores usage information that can be transferred to a computer for analysis: USB port</li> <li>• Can be used on young patients</li> </ul>	<ul style="list-style-type: none"> <li>• 10 year manufacturers warranty on the defibrillator unit</li> <li>• 4 year battery life (from date of manufacture)</li> <li>• 4 year electrode pad life (from date of manufacture)</li> <li>• Weekly automatic self tests performed by the unit</li> <li>• UK manufactured</li> <li>• Motion detection feature provides warning of excessive or unexpected patient movement</li> <li>• Easy to operate and clear user interface</li> <li>• Provides visual and audible prompts throughout the rescue process</li> <li>• Indicates when to begin CPR and sounds a "click" metronome for the correct compression rate</li> <li>• Compact and lightweight design</li> <li>• High resistance to shock, vibration, dust and moisture (IP56 rating)</li> <li>• System Status Ready Indicator shows that the defibrillator is operational and ready for use</li> <li>• Uses a single cartridge component that contains both the electrode pads and battery</li> </ul>
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	<ul style="list-style-type: none"> <li>• <u>On-site AED Training Courses</u> are available to purchase separately</li> </ul>	<p>with the <u>infant/child pads (sold separately)</u></p> <ul style="list-style-type: none"> <li>• Typical time taken for initial analysis and time to charge: 15 seconds</li> <li>• <u>On-site AED Training Courses</u> are available to purchase separately</li> </ul>	<ul style="list-style-type: none"> <li>• <u>Paediatric-Pak (sold separately)</u> required for infant/child treatment</li> <li>• <u>On-site AED Training Courses</u> are available to purchase separately</li> </ul>
<b>What's included</b>	<p>The Defibtech Lifeline Auto is supplied with a range of accessories in preparation for administering life saving treatment. When purchasing this unit, you will receive:</p> <ul style="list-style-type: none"> <li>• 1 x Defibtech Lifeline Auto</li> <li>• 1 x Lithium battery (Up to 5 or 7 years stand-by life)</li> <li>• 1 x 9V lithium battery (18-24 month life - powers self-test feature)</li> <li>• 1 x Pair of adult defibrillator pads</li> <li>• 1 x Instruction manual</li> </ul>	<p>The Cardiac Science Powerheart G5 defibrillator is supplied with a range of accessories in preparation for administering life saving treatment. When purchasing this unit, you will receive:</p> <ul style="list-style-type: none"> <li>• 1 x Cardiac Science Powerheart G5 defibrillator</li> <li>• 1 x Lithium battery</li> <li>• 1 x Pair of adult electrode pads</li> <li>• 1 x Defibrillator manual</li> <li>• 1 x Defibrillator management software</li> <li>• 1 x Getting started card</li> </ul>	<p>The HeartSine Samaritan PAD 360P defibrillator is supplied with a range of accessories in preparation for administering life saving treatment. When purchasing this unit, you will receive:</p> <ul style="list-style-type: none"> <li>• 1 x HeartSine Samaritan PAD 360P defibrillator</li> <li>• 1 x Pad-Pak cartridge (combined battery and pair of electrode pads)</li> <li>• 1 x User manual</li> <li>• 1 x Quick reference guide</li> <li>• 1 x Soft carry case</li> </ul>

\* This is the same as the one the Town Council purchased for installation under the Old Fish Market.

In addition to the above, an AED Defibrillator Responder Kit is also required. These cost £11 and include:

- Disposable razor - suitable for shaving the area where pads will be placed
- Tuff-Kut scissors - strong and sharp enough to cut through patients clothing
- Nitrile gloves (powder free) - essential protection for the user
- Res-cue mask (reusable) - protects the user when giving rescue breaths
- Cleansing wipes (10pk) - suitable for wiping patients chest before placing pads
- Tissues (10pk) - used for drying patients chest after using cleansing wipes

- Foil blanket (disposable) - designed to retain patients body heat until paramedics arrive
- Zenith pouch (zippered) - convenient storage for the responder kit

## **Ongoing costs**

### Maintenance

- The device does not require servicing.
- It is important that there is a weekly check of the AED. This is usually a visual check.
- The AED self-checks every 24 hours and the display screen which can be seen without opening the AED would show if it was not operational.
- To meet the governance for listing defibrillators a monthly online report must be submitted to SWAST (this is nothing more onerous than 3 tick box questions).