



SMART HEART SPORTS COALITION

# AEDs FOR YOUTH PROGRAM: AED COMPARISON CHART

for informational purposes only

Nov-2024

## AED Glossary of Terms

**AED:** A portable medical device designed for anyone to use to treat people in sudden cardiac arrest, a condition where the heart suddenly and unexpectedly stops beating. The AED analyzes the heart and if it detects a problem may deliver a shock to restart the heart's normal rhythm.

**Operation Mode:** A fully automatic AED detects a shockable heart rhythm and delivers a shock without the need to push a button. A semi-automatic AED requires the user to press a button when indicated to deliver a shock.

**Prompts:** Voice and visual prompts guide users step-by-step through the process of using the device during a cardiac emergency.

**CPR Coaching:** The AED provides real-time voice instructions on how to perform CPR.

- **Metronome** helps you keep the beat when performing chest compressions.
- **Real-Time CPR Feedback** The feedback feature ensures that the cardiac arrest victim is receiving the correct rate and depth of chest compressions (e.g., *push faster, push deeper, good rate, good depth, release fully*).

**Wi-Fi or Cellular Connectivity:** AEDs with connectivity can be managed remotely and receive automatic software updates. For AEDs without reliable Wi-Fi, cellular connectivity provides similar benefits. For AEDs with cellular connectivity, GPS tracking may be included, allowing organizations to keep track of where each AED is located.

**Self-Testing:** AEDs are designed to perform regular self-tests to ensure that they are fully functional and ready to use in an emergency. These self-tests typically check internal circuitry, battery and electrodes/pads.

**Converts to Trainer:** A simulated version of AED that is used for training purposes. It allows individuals to practice using an AED without the risk of shocking a person.

**Note:** Training pads and simulators have to be purchased separately.

**Electrodes/Pads:** All AEDs come with adult pads; some can also be used for pediatrics and energy is adjusted by child mode button or pediatric key (i.e., *Avive Connect AED, LIFEPAK CR2 and ZOLL AED3 with child mode button and Philips HeartSmart FRx with pediatric key*) while others require you to purchase pediatric electrodes/pads separately. **Note:** Pediatric pads are for children 55lbs. or less or children under 8 years old.

**Energy (joules):** The first AED-administered shock is usually a specific amount of joules, commonly around 120-150 joules, depending on the device. Some AEDs have escalating energy, which means that if the first shock doesn't work, the AED will increase the amount of energy, with each shock to give the heart a better chance of restarting.

AED Features	Avive Connect AED	defibtech Lifeline Lifeline View	PHILIPS HeartStart OnSite FRx	stryker® HeartSine Samaritan 350P/360P/450P LIFEPAK CR2	ZOLL AED Plus AED 3 Powerheart G5
<b>Operation Mode</b>	Fully-Auto	Fully-Auto Semi-Auto	Semi-Auto Semi-Auto	Semi/Fully/Semi Auto Auto Auto	Fully-Auto Semi-Auto
<b>Prompts</b>	Voice & Visual	Voice Voice & Visual LED	Voice Voice	Voice & Visual Voice & Visual	Voice & Visual Voice & Visual LED
<b>Bilingual</b>	Yes/ Button	No Yes/ Button	No No	No Yes/ Button	No No Yes/ Button
<b>CPR Coaching &amp; Real-Time Feedback</b>	Voice & Video Coaching Metronome	Metronome Voice & Video Coaching Metronome	Voice Coaching Metronome Voice Coaching Metronome	Voice Coaching Metronome Real-Time Feedback (450P only) Voice Coaching Metronome	Voice Coaching Metronome Real-Time Feedback Voice & Video Coaching Metronome Real-Time Feedback Voice Coaching Metronome Real-Time Feedback
<b>Wi-Fi or Cellular Connectivity</b>	Integrated Wi-Fi & Cellular	No No	Cellular with Attachment Cellular with Attachment	Wi-Fi with Attachment Integrated Wi-Fi & Cellular	Integrated Wi-Fi Integrated Wi-Fi Wi-Fi w/Rescue Ready Monitor
<b>Self-Testing</b>	Daily Weekly Monthly	Daily Weekly Monthly Quarterly	Daily Daily	Weekly Daily	Weekly & Monthly Weekly & Monthly Daily Weekly Monthly
<b>Converts to Trainer</b>	Yes w/training pads cartridge	No No	Yes w/training pads cartridge Yes w/training pads II cartridge	No No	Yes w/simulator Yes w/simulator Yes w/simulator
<b>Battery Life</b>	Rechargeable	5 or 7 years 4 years	4 years 4 years	4 years 4 years	5 years 5 years 4 years
<b>Electrodes/Pads Life</b>	2 years	2 years 2 years	2 years 2 years	4 years 4 years	Adult 5 years Pediatric 2 years 5 years 2 years
<b>Energy (joules)</b> <i>see note about electrodes/pads</i>	Adult 150J Pediatric 50J	Adult 150J Pediatric 50J	Adult 150J Pediatric 50J	Adult (All Models) 150J, 150J, 200J Pediatric 50J Adult 120J, 150J, 200J Pediatric 50J	Adult 120J, 150J, 200J Pediatric 50J, 70J, 85J Adult 120J, 150J, 200J Pediatric 50J, 70J, 85J Adult 95J to 354J Pediatric 22J to 82J
<b>Warranty</b>	5 years; 8 years, if registered	8 years 8 years	8 years 8 years	8 years 8 years	5 years; 7 years, if registered 6 years; 8 years, if registered 8 years
<b>Weight</b>	2.1 lbs.	4.4 lbs. 3 lbs.	3.3 lbs. 3.5 lbs.	2.4 lbs. 4.5 lbs.	6.7 lbs. 5.5 lbs. 5.7 lbs.
<b>SMART Bundle Pricing</b>	<a href="#">Athletic</a> <a href="#">School</a>	<a href="#">Athletic</a> <a href="#">School</a>	<a href="#">Athletic</a> <a href="#">School</a>	<a href="#">Athletic</a> <a href="#">School</a>	<a href="#">Athletic</a> <a href="#">School</a>