

the
ULTIMATE
AED
Buyer's Guide

800.544.0048
AEDSuperstore.com

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The source for everything about AEDs

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What is an automated external defibrillator (AED) and what is it used for?

The American Heart Association estimates 350,000 people die from sudden cardiac arrest (SCA) every year. SCA can strike anyone, anywhere, at any time without warning.

350,000
sudden cardiac arrests occur
EVERY YEAR in the US; only
1 out of 10 survive

After 10 minutes
without defibrillation,
chances of
survival are zero

Brain death starts
to occur in just
4 to 6 minutes
after cardiac arrest

The **ONLY**
treatment for
sudden cardiac arrest is
defibrillation

An AED will **tell you**
what to do
using voice
prompts



**The statistics
are unyielding**

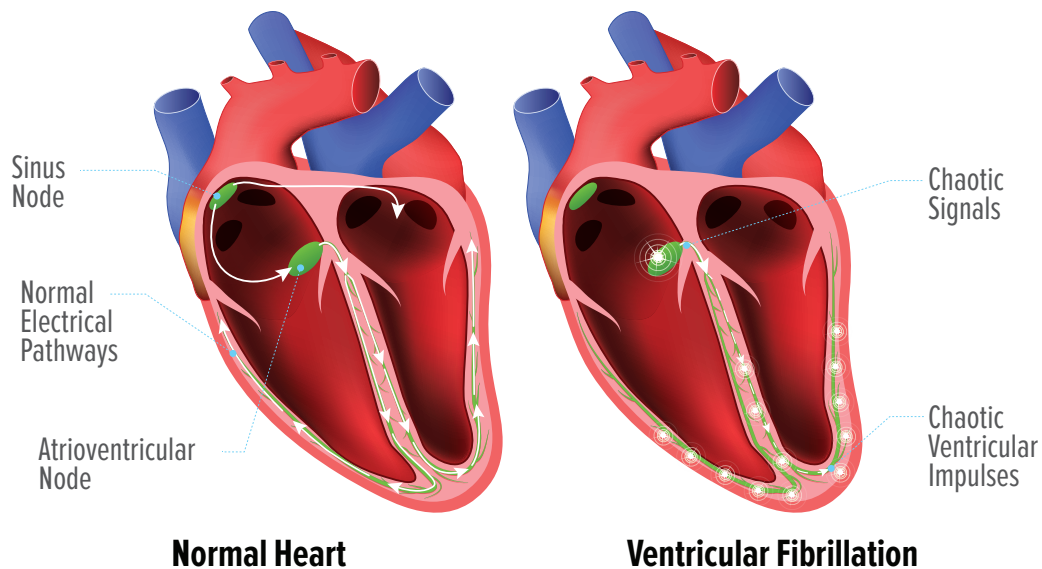
**Under Good Samaritan Laws, voluntary
rescuers are legally protected when aiding
those in sudden cardiac arrest**

The use of an automated external defibrillator (AED) can increase the chances of survival for someone experiencing out-of-hospital sudden cardiac arrest due to ventricular fibrillation.

An AED is an FDA-cleared public-access device designed to treat sudden cardiac arrest. All AEDs use visual and voice prompts to walk a rescuer through a sudden cardiac arrest event, regardless

of the rescuer's level of training or experience. While different makes and models have varying features, AEDs do what they are designed to do - save lives!

What is sudden cardiac arrest?



The heart uses electrical impulses which regulate rhythm and cause the heart to beat. During sudden cardiac arrest (SCA), something interrupts these normal electrical impulses, sending the heart into a state of “fibrillation” where it is just quivering and not effectively pumping oxygenated blood to the brain or vital organs. Without oxygenated blood, the brain shuts down and causes the victim to lose consciousness and stop breathing. People affected by SCA may exhibit agonal breathing where they appear to be gasping but the chest does not rise and fall. Decorticate posturing,

Cardiac Arrest



Cardiac arrest is an “electrical” problem

where the person’s arms pull in and up to the chest, may also be present. Many times these symptoms lead potential rescuers to mistake SCA for a seizure. It is important to recognize sudden cardiac arrest for what it is, as delaying treatment is detrimental to survival rates.

Some causes of sudden cardiac arrest include known or unknown genetic conditions, heart muscle damage due to heart attack, drowning, choking, electrocution, drug overdose or reaction, a sudden blow to the chest (commotio cordis), or trauma.

Who is at risk?

Although pre-existing heart disease is a common cause of cardiac arrest, many victims have never had a heart problem.



Risk factors for coronary artery disease which may lead to sudden cardiac arrest are:

- A family history of coronary artery disease
- Smoking
- High blood pressure
- High blood cholesterol
- Obesity
- Diabetes
- A sedentary lifestyle
- Drinking too much alcohol (more than two drinks per day)

Factors which may increase your risk of sudden cardiac arrest include:

- A **previous episode** of cardiac arrest or a family history of cardiac arrest
- A **previous heart attack**
- A **personal or family history** of other forms of heart disease, such as heart rhythm disorders, congenital heart defects, heart failure, and cardiomyopathy
- **Age** — the incidence of sudden cardiac arrest increases with age
- **Being male** — men are two to three times more likely to experience sudden cardiac arrest
- **Using illegal drugs**, such as cocaine or amphetamines
- **Nutritional imbalance**, such as low potassium or magnesium levels

Sudden cardiac arrest by the numbers

SCA is the leading cause of death among adults over the age of 40



3 to 5 - the maximum number of minutes before a shock from an AED should be delivered to an SCA victim

8 to 10 - the average number of minutes for EMS to arrive at the scene of an emergency



4 to 6 - the number of minutes before the brain begins to die when it does not receive oxygenated blood



1 in 3 - the number of victims who survive when the arrest is witnessed by a bystander



there is a **90%** mortality rate

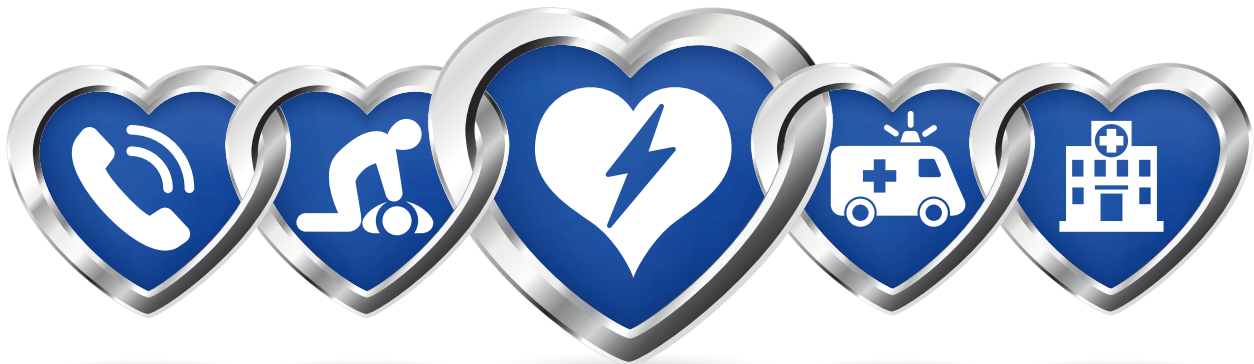
Sudden cardiac arrest is NOT a heart attack

Sudden cardiac arrest is NOT a heart attack. A heart attack can be described as a “plumbing” problem - a blockage of the arteries leading to the heart have caused heart muscle tissue to begin to die. This leads to chest pain (angina) and may lead to symptoms such as numbness down the left side of the body (most notably the left arm),

jaw pain, shortness of breath, back pain, and weakness. Heart attacks can last minutes, hours, days or even weeks. The person experiencing a heart attack is usually conscious, breathing, and able to describe their symptoms. A heart attack (or multiple heart attacks) may lead to sudden cardiac arrest.

How an AED can increase survival

If all the links in the sudden cardiac arrest chain of survival are followed, the likelihood of a full neurological and cardiac recovery is greatly enhanced. Every minute counts!



Call 911

Quality CPR

Early Defibrillation

Early EMS Care

Advanced Medical Care

An AED is a portable device which is very simple to operate. At a very basic level, you turn it on and follow the verbal instructions. Once turned on and connected to the victim, the AED performs the first step of analyzing the victim's heart rhythm to determine if one of the two heart rhythms it can treat are present. The two heart rhythms the AED looks for are [Ventricular Fibrillation](#) (pulseless, chaotic quivering of the heart, also called v-fib) and [Ventricular Tachycardia](#) (life-threatening rapid heartbeat, also called v-tach). If the AED identifies one of these two rhythms, it will instruct the rescuer a shock is advised and charge the AED. When the shock is administered, either automatically by the AED (in a fully-automatic AED) or after the rescuer pushes the shock button when instructed by the AED (in a semi-automatic AED), an effective electrical charge will flow between the electrode pads on the victim's chest and into the victim's heart. This electric shock stops the chaotic rhythm

and then, because the heart has its own built-in pacemakers, the heart will start to beat on its own.

Are AEDs safe?

YES! Rest assured you cannot accidentally shock someone with an AED! The AED is continually monitoring a patient's heart rhythm and if it detects a "shockable" rhythm, it will advise a shock. Between advising the shock and the shock being administered, if the AED no longer detects a shockable rhythm, it will not shock the patient - no matter how many times you press the shock button.

Who can use an AED?

Anyone can use an AED. If a child can follow the directions, they can effectively deploy an AED. It requires no strength or stamina to deliver a shock.

How to use an AED

AEDs are so simple to use, they can be used by virtually anyone. You do not need to be a medical professional! Every AED walks a rescuer through the event from the time the AED is turned on until EMS arrives, using both visual and voice

prompts. Clear, simple graphics on the AED, packaging (which varies by make and model) and clear, simple voice commands guide the rescuer through the event.

For adults

Turn the AED on either by lifting the lid, pressing the power button, or removing the electrode pads (the method of turning on the AED varies by make and model). A typical scenario of voice prompts once the AED is turned on would be:

“Call for help”

- ◆ If you are with other people - instruct someone else to call 911
- ◆ If you are alone:
 - If you have a mobile phone and service - call 911, put your phone on speaker, and place the phone next to the patient so you can speak to the dispatcher during the rescue
 - If you do not have a mobile phone or service, find a way to reach 911 either by seeking another individual or finding another phone and then return to the patient as quickly as possible

“Remove clothing from patient’s chest” - all AEDs sold by AED Superstore include a rescue kit to assist with this step.

- ◆ Remove all clothing from chest
 - Do not be afraid to cut clothing if necessary (and you have the means), or tear the clothing - a rescue kit usually includes a pair of scissors
 - Bras may be cut, lifted over the patient’s breasts or left on (if it does not impede electrode pad placement)

- ◆ Make sure skin is clean and dry of water or sweat - a rescue kit usually includes a towel or you can use your own clothing or the patient’s clothing if it is dry and clean enough
- ◆ Make sure skin is free of excessive hair, if possible - a rescue kit usually includes a disposable razor

“Place electrode pads on patient’s bare chest”

- ◆ Visual guides on the electrode pads or electrode pad packaging will show placement
- ◆ Press the electrode pads firmly to clean, bare, dry skin

“Do not touch the patient”

- ◆ Sit back from the patient and make sure you are not touching the patient
- ◆ Instruct others in the area to also stand back
 - Why this is important: The AED is checking the heart rhythm to detect whether it is a shockable or nonshockable heart rhythm. If the patient is being jostled, this interferes with the analysis

“Shock advised” - The AED has detected a shockable heart rhythm and is getting a charge ready to shock the patient.

- ◆ “Do not touch the patient” - stand back from the patient and advise others around you to do the same

- ◆ If the AED is [semi-automatic](#), “Press the flashing shock button”
 - The orange or red shock button will flash
 - Press the button
- ◆ If the AED is [fully-automatic](#), “Shock will be delivered in 3, 2, 1...”
 - The AED does not have a shock button and will deliver the shock when the countdown finishes.

“Shock delivered” - the shock was successfully administered to the patient.

“It is now safe to touch the patient” - you can safely touch the patient.

OR

“Shock not advised”

- ◆ The AED has detected a nonshockable rhythm
- ◆ The patient may be in asystole (or “flat line”)
- ◆ If the patient is still unresponsive and not breathing, perform CPR

“Begin CPR”

- ◆ Most AEDs have some form of CPR prompting/assistance. These may include:
 - A metronome to keep you on track for rate of compressions
 - A timer which will alert the rescuer how many more seconds to perform CPR on the patient
 - CPR Feedback (providing real-time guidance on the quality of the rescuer’s CPR), including:
 - [Rate of compressions](#) - will prompt “good speed”, “push faster”, or “push slower”
 - [Depth of compressions](#) - will


prompt “good compressions”, “press deeper”, “press harder”, or “press softer”

- [Recoil](#) - will prompt “press harder, fully release”

- ◆ Some AEDs provide guidance to give rescue breaths between CPR compression cycles
 - If you are uncomfortable giving breaths, continue compressions in the “hands-only” CPR method
 - If you are comfortable giving breaths, or if you have a second rescuer with you who can administer the breaths, give rescue breaths
- ◆ To perform CPR on the patient, interlace your fingers and press hard on the lower half of the sternum (breast bone); you may hear ribs crack or break - this is normal!
- ◆ The rate of chest compressions should be between 100 and 120 beats per minute - songs to sing in your head to keep the correct rate include the Bee Gee’s “Stayin’ Alive”, Queen’s “Another One Bites the Dust” (unfortunate), or Darth Vader’s theme from Star Wars!
- ◆ Chest compression depth should be between 2”-2.4”
- ◆ Make sure to let the chest recover its rise completely between compressions
- ◆ The AED will inform you when it is time to stop CPR compressions

“Do not touch the patient” - same as earlier.

“Analyzing heart rhythm” - same as earlier.



The cycles of analysis, shocks and CPR should continue until EMS arrives and can take over or the victim regains consciousness.

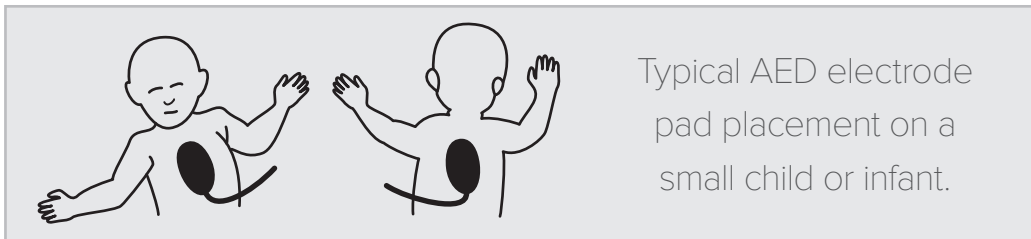
For infants and children up to 55 lbs

Electrode pads

- ◆ If your AED uses a pediatric or infant/child “key” (to lower the energy settings for a pediatric patient), make sure the key is inserted into the AED
- ◆ If your AED uses pediatric or infant/child electrode pads, make sure to connect these electrode pads to the AED (You may need to disconnect the adult electrode pads if they are already connected to the AED)
- ◆ Position the electrode pads according to the placement diagrams provided on the electrode pads/packaging
- ◆ If you do not have a pediatric or infant/child key or electrode pads, use the adult electrode pads instead and position as illustrated below

CPR

- ◆ Chest compressions at a rate of 100 per minute
- ◆ Chest compressions at 1/3 the depth of the patient’s chest
- ◆ For children, place heel of one hand on lower part of sternum for compressions
- ◆ For infants, use your index and middle finger to perform compressions
- ◆ Rescue breathing is essential to child/infant CPR - give two breaths for every 30 compressions



Who should buy an AED (what to choose and why)

If you are considering purchasing an AED, here are a few facts to help you determine if this is the right decision

Whether you are considering purchasing an AED because it is required by law or simply because you recognize the importance of these safe, simple devices and want to take an extra step to ensure the safety of those who may need it, take a few moments to think about where the AED will be located and who may use it.

Business Owners

1. The safety of your customers, staff, and/or clients is important to you
2. You own a business which sees a wide cross-section of the population come through its doors on a regular basis
3. Your customers, staff, or clients are at a higher risk for sudden cardiac arrest. For example:
 - ◆ Elderly
 - ◆ Compromised health (health-oriented business)
 - ◆ Physical strain (fitness-oriented business)
 - ◆ Keep in mind sudden cardiac arrest can happen to anyone, anytime, regardless of age, gender, or physical fitness
4. You are able to commit the time and resources (approximately 5-10 minutes per month) to maintain the AED according to the manufacturer's recommendations
5. [State laws](#) require your business to have an AED based on type of business, size of your facility, or number of patrons

Home Use

You or a member of your household has been diagnosed with a heart-related condition or suffered previous heart-related events.

Type of Location

1. **Indoor/office** settings - carpeted floors, dry, stationary storage
 - ◆ Virtually any AED is a safe choice; an AED with a high [IP rating](#) is not necessary for this type of environment
 - ◆ Choose a package which includes a quality wall cabinet
 - ◆ If children are regular visitors, consider a unit with easy pediatric options
2. **School** - variances in flooring materials, dry, stationary storage with some potential for more handling
 - ◆ If there is potential for pediatric use (children under 55 lbs.), be sure to have pediatric pads available, or purchase a unit with an infant/child key option
 - ◆ Ruggedness could be a factor due to flooring and the fact a young person may be carrying the AED
 - ◆ Choose a package which includes a quality wall cabinet; consider adding an alarm or strobe to the cabinet to deter tampering by students
 - ◆ Make sure you have enough devices throughout the school so a shock can be administered within 3-5 minutes of any potential cardiac arrest event
 - ◆ Consider an additional unit to be taken to sporting events and/or field trips - choose a rugged carry case for transport of the device

3. Warehouses/factories - concrete floors, variances in temperature/humidity, stationary storage

- ◆ Ruggedness may be a factor due to flooring and temperature variances
- ◆ Choose a sturdy unit with a higher [IP rating](#)
- ◆ Choose a package with a quality wall cabinet or bracket; consider adding an alarm or strobe to alert bystanders of AED removal

4. Outdoors/sports - variances in weather and surfaces, may be moved on a regular basis

- ◆ Ruggedness may be a factor due to changes in surfaces and weather
- ◆ Choose a sturdy unit with a higher [IP rating](#)
- ◆ Choose a package with either an outdoor-rated cabinet for stationary storage or a sturdy watertight carry case, like [Shok Box®](#), exclusive from AED Superstore, for moving from event to event
- ◆ If using for youth sports, consider a unit with an infant/child key to lower replacement accessory costs

5. Vehicles - variances in temperature/humidity and potential for extensive handling/moving of device

- ◆ Ruggedness is a factor due to changes in surfaces and weather
- ◆ Choose a sturdy unit with a higher [IP rating](#)
- ◆ If there is potential for pediatric use (first responder vehicles), be sure to have pediatric pads available, or purchase a unit with an infant/child key option
- ◆ Consider a sturdy, watertight carry case, like [Shok Box®](#), exclusive from AED Superstore

Potential Users

1. General public - the device will be available to anyone at any time

- ◆ All AEDs use voice and visual prompts to walk a user through the rescue
- ◆ Consider a fully-automatic device which does not require the rescuer to push the shock button if a shock is advised
- ◆ Consider a device with CPR feedback to ensure quality CPR
- ◆ Is language a factor? Some AED models offer dual-language options during a rescue

2. Trained staff - the device will only be accessible to trained staff

- ◆ Consider an AED which can be converted into a training device, or purchase a separate training device matching your AED model

3. Home use - there is likely only one person who would be using the device

- ◆ Choose the AED easiest to handle and use with regard to the AED's weight, size, and available features
- ◆ Ask your doctor to recommend a device to fit your budget
- ◆ If you live alone and spend most of your time alone, having an AED is probably not a wise choice as there will be no one to use it should you go into cardiac arrest

If the above factors apply to you or your business, you may want to consider purchasing an AED. There are six major manufacturers of FDA-cleared AEDs in the United States, with prices ranging anywhere from \$1,200 to \$3,200.

What make and model AEDs are on the market in the US today?

Main Feature Differences	PAD	PRO
Price	\$1,200 - \$1,700	\$2,500 - \$3,200
Manual Override?	No	Yes
Warranty	5-8 years	5-7 years
Battery life	4-5 years in standby	1-5 years in standby
Rechargeable Battery Option?	No	Yes
ECG	Some	All
Designed for	General Public	Trained Medical Professionals

There are six major manufacturers of FDA-cleared AEDs in the US. They all have models which fit into the PAD (Public Access Defibrillation) category with some offering fully-automatic versions in addition to the semi-automatic standard; most manufacturers have professional models (designed for use by trained medical professionals), and three offer ALS (Advanced Life Support) devices. The six manufacturers are Cardiac Science, Defibtech, HeartSine, Philips Healthcare, Physio-Control, and ZOLL.

Currently Available PAD AED Models – for use by the general public:

Cardiac Science

- Powerheart® AED G3 Plus
- Powerheart® G5 AED

Defibtech

- Lifeline™ AED
- Lifeline™ AUTO AED
- Lifeline™ VIEW AED

HeartSine®

- samaritan® PAD 350P AED
- samaritan® PAD 450P AED

Philips Healthcare

- HeartStart OnSite AED
- HeartStart FRx AED

Physio-Control

- LIFEPAK EXPRESS® AED
- LIFEPAK CR® Plus AED

ZOLL®

- AED Plus®

Currently Available Pro AED Models – for use by trained medical professionals:

Cardiac Science

- Powerheart® AED G3 Pro

Defibtech

- Lifeline™ ECG AED

Philips Healthcare

- HeartStart FR3 AED

Physio-Control

- LIFEPAK® 1000 AED

ZOLL®

- AED Pro®

Currently Available ALS AED Models – for use by trained medical professionals:

Philips Healthcare

- HeartStart MRx

Physio-Control

- LIFEPAK® 15
- LIFEPAK® 20e

ZOLL®

- E Series
- R Series
- X Series

Features for

Cardiac Science Powerheart® AED G3 Plus



Features:

- No buttons on the fully-automated version (only one button on the semi-automatic version)
- Detailed CPR coaching
- LCD text prompts
- RESCUE READY® technology – daily, weekly and monthly self-checks
- Non-polarized electrode pads
- Battery includes a full 4-year operational performance guarantee

Available Unit Options:

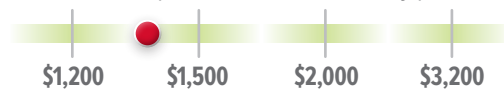
- Semi-automatic or fully-automatic

Specifications:

- Warranty - 7 Years
- Water/Dust Resistance - IP24
- Weight - 6.6 lbs.
- Dimensions - 12.4" x 10.6" x 3.3"
- CPR Coaching - [Passive](#)
- Electrode Pads Life - 2 Years
- Battery Standby Life - 4 Years

Package	Adult Electrode Pads	Pediatric Option	4 Year Battery	Carry Case	Responder® AED/CPR Pack	Wall Cabinet	AED Wall Sign	AED Check Tag	AED Window/Wall Decal	Arch Medical Direction & Oversight	CPR/AED Training Class
AED Only	2		✓	Semi-Rigid	1-person			✓	✓		
Small Business	2		✓	Semi-Rigid	1-person	✓	✓	✓	✓		
School & Community	2	Electrode Pads	✓	Semi-Rigid	1-person	✓	✓	✓	✓		
Corporate	2		✓	Semi-Rigid	1-person	✓	✓	✓	✓	1 year	
Complete	2		✓	Semi-Rigid	1-person	✓	✓	✓	✓	1 year	✓
Responder	2	Electrode Pads	✓	Shok Box®	2-person			✓	✓		
Aviation	2		TSO	Semi-Rigid	2-person			✓	✓		

Red dot indicates AEDSuperstore.com's AED Only price as of 08/01/2016



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AED
Comparison Chart

Features for

Cardiac Science Powerheart® G5 AED



Features:

- iCPR Intellisense™ Electrode Pads provide live CPR feedback with compression rate and depth prompts
- Change between English and Spanish with the push of a button
- No buttons on the fully-automated version (only one button on the semi-automatic version)
- Tested to military standards for shock, vibration, and drops
- Battery includes a full 4-year operational performance guarantee

Available Unit Options

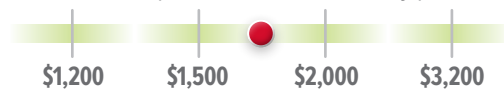
- Semi-automatic or fully-automatic

Specifications:

- Warranty - 8 Years
- Water/Dust Resistance - IP55
- Weight - 5.7 lbs.
- Dimensions - 3.4" x 9.0" x 11.8"
- CPR Coaching - [Responsive](#)
- Electrode Pads Life - 2 Years
- Battery Standby Life - 4 Years

Package	Adult Electrode Pads	Pediatric Option	4 Year Battery	Carry Case	RespondER® AED/CPR Pack	Wall Cabinet	AED Wall Sign	AED Check Tag	AED Window/Wall Decal	Arch Medical Direction & Oversight	CPR/AED Training Class
AED Only	2		✓	Semi-Rigid	1-person			✓	✓		
Small Business	2		✓	Semi-Rigid	1-person	✓	✓	✓	✓		
School & Community	2	Electrode Pads	✓	Semi-Rigid	1-person	✓	✓	✓	✓		
Corporate	2		✓	Semi-Rigid	1-person	✓	✓	✓	✓	1 year	
Complete	2		✓	Semi-Rigid	1-person	✓	✓	✓	✓	1 year	✓
Responder	2	Electrode Pads	✓	Hard	2-person			✓	✓		

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Comparison Chart

Features for Cardiac Science Powerheart® AED G3 Pro

PROFESSIONAL MODEL



Features:

- ECG color display
- Manual override features
- RESCUE READY® technology – daily, weekly and monthly self-checks
- Multiple rescue capability
- Continuous cardiac monitoring

Available Unit Options:

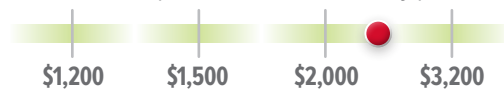
- Non-rechargeable or rechargeable battery

Specifications:

- Warranty - 7 Years
- Water/Dust Resistance - IP24
- Weight - 6.6 lbs.
- Dimensions - 12.4" x 10.6" x 3.3"
- CPR Coaching - [None](#)
- Electrode Pads Life - 2 Years
- Battery Standby Life:
 - Non-rechargeable - 1 Year
 - Rechargeable - Varies

Package	Adult Electrode Pads	Pediatric Option	1 Year Battery	Carry Case	Responder® AED/CPR Pack	Wall Cabinet	AED Wall Sign	AED Check Tag	AED Window/Wall Decal	Arch Medical Direction & Oversight	CPR/AED Training Class
AED Only	2		✓	Semi-Rigid	1-person			✓	✓		
Corporate	2		✓	Semi-Rigid	1-person	✓	✓	✓	✓	1 year	
Complete	2		✓	Semi-Rigid	1-person	✓	✓	✓	✓	1 year	✓
Responder	2	Electrode Pads	✓	Hard	2-person			✓	✓		

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AED

Comparison Chart

Features for Defibtech Lifeline™ AED



Features:

- Award-winning design and rugged construction
- Easy to use with both traditional and “hands-only” CPR
- 9V battery used for self-checks, ensuring AED battery fully charged for rescue
- Unique text prompts – LEDs instead of LCD screen
- Easily converts to its own trainer with an inexpensive training conversion kit

Available Unit Options:

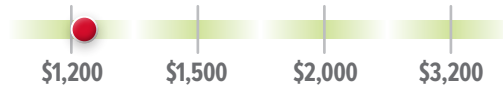
- Semi-automatic or fully-automatic
- Five (5) or seven (7) year battery standby life

Specifications:

- Warranty - 8 Years
- Water/Dust Resistance - IP54
- Weight - 4.2 lbs.
- Dimensions - 11.8" x 8.5" x 2.7"
- CPR Coaching - [Passive](#)
- Electrode Pads Life - 2 Years
- Battery Standby Life - 5 or 7 Years

Package	Adult Electrode Pads	Pediatric Option	5 or 7 Year Battery	Carry Case	RespondER® AED/CPR Pack	Wall Cabinet	AED Wall Sign	AED Check Tag	AED Window/Wall Decal	Arch Medical Direction & Oversight	CPR/AED Training Class
AED Only	1		✓	Soft	1-person			✓	✓		
Small Business	1		✓	Soft	1-person	✓	✓	✓	✓		
School & Community	1	Electrode Pads	✓	Soft	1-person	✓	✓	✓	✓		
Corporate	1		✓	Soft	1-person	✓	✓	✓	✓	1 year	
Complete	2		✓	Soft	1-person	✓	✓	✓	✓	1 year	✓
Responder	2	Electrode Pads	✓	Shok Box®	2-person			✓	✓		

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AED
Comparison Chart

Features for
Defibtech Lifeline™ VIEW AED



Features:

- Full-color video screen displays CPR coaching and defibrillation
- Real time protocol selection allows the user to instantly switch between rescue protocols and upgrade protocols in the field in a manner of minutes
- Easy to use with both traditional and “hands-only” CPR
- Compact size
- Electrode pads and batteries indicate readiness status on the one touch status screen

Specifications:

- Warranty - 8 Years
- Water/Dust Resistance - IP55
- Weight - <3 lbs.
- Dimensions - 9.5" x 7.3" x 2.3"
- CPR Coaching - [Passive](#)
- Electrode Pads Life - 2 Years
- Battery Standby Life - 4 Years

Package	Adult Electrode Pads	Pediatric Option	4 Year Battery	Carry Case	Responder® AED/CPR Pack	Wall Cabinet	AED Wall Sign	AED Check Tag	AED Window/ Wall Decal	Arch Medical Direction & Oversight	CPR/AED Training Class
AED Only	1		✓	Semi-Rigid	1-person			✓	✓		
Small Business	1		✓	Semi-Rigid	1-person	✓	✓	✓	✓		
School & Community	1	Electrode Pads	✓	Semi-Rigid	1-person	✓	✓	✓	✓		
Corporate	1		✓	Semi-Rigid	1-person	✓	✓	✓	✓	1 year	
Complete	2		✓	Semi-Rigid	1-person	✓	✓	✓	✓	1 year	✓
Responder	2	Electrode Pads	✓	Shok Box®	2-person			✓	✓		
Aviation	2		TSO	Semi-Rigid	2-person			✓	✓		

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Features for
Defibtech Lifeline™ ECG AED

PROFESSIONAL MODEL



Features:

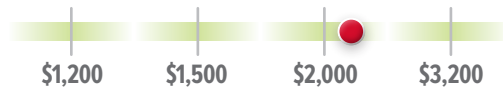
- Full-color video screen can display CPR coaching and defibrillation or display the patient's ECG reading
- Real time protocol selection allows the user to instantly switch between rescue protocols and upgrade protocols in the field in a manner of minutes
- Easy to use with both traditional and "hands-only" CPR
- Compact size
- Electrode pads and batteries indicate readiness status on the one touch status screen

Specifications:

- Warranty - 8 Years
- Water/Dust Resistance - IP55
- Weight - <3 lbs.
- Dimensions - 9.5" x 7.3" x 2.3"
- CPR Coaching - [Passive](#)
- Electrode Pads Life - 2 Years
- Battery Standby Life - 4 Years

Package	Adult Electrode Pads	Pediatric Option	4 Year Battery	Carry Case	RespondER® AED/CPR Pack	Wall Cabinet	AED Wall Sign	AED Check Tag	AED Window/Wall Decal	Arch Medical Direction & Oversight	CPR/AED Training Class
AED Only	1		✓	Semi-Rigid	1-person			✓	✓		
Small Business	1		✓	Semi-Rigid	1-person	✓	✓	✓	✓		
School & Community	1	Electrode Pads	✓	Semi-Rigid	1-person	✓	✓	✓	✓		
Corporate	1		✓	Semi-Rigid	1-person	✓	✓	✓	✓	1 year	
Complete	2		✓	Semi-Rigid	1-person	✓	✓	✓	✓	1 year	✓
Aviation	2		TSO	Semi-Rigid	2-person			✓	✓		

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Features for HeartSine® samaritan® PAD 350P AED



Features:

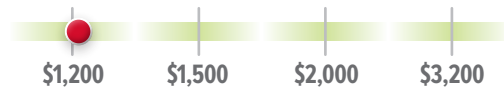
- Pad-Pak electrode pad and battery combination makes maintenance easy with only one item to replace
- Lightweight and compact - the smallest and lightest AED available
- A simple-to-own semi-automatic defibrillator, designed to be durable, affordable and highly user-friendly
- CPR coaching with metronome
- Exceptionally rugged

Specifications:

- Warranty - 10 Years
- Water/Dust Resistance - IP56
- Weight - 2.4 lbs.
- Dimensions - 8.0" x 7.25" x 1.9"
- CPR Coaching - [Passive](#)
- Electrode Pads Life - 4 Years
- Battery Standby Life - 4 Years

Package	Adult Electrode Pads	Pediatric Option	4 Year Battery	Carry Case	RespondER® AED/CPR Pack	Wall Cabinet	AED Wall Sign	AED Check Tag	AED Window/Wall Decal	Arch Medical Direction & Oversight	CPR/AED Training Class
AED Only	1		✓	Soft	1-person			✓	✓		
Small Business	1		✓	Soft	1-person	✓	✓	✓	✓		
School & Community	1	Electrode Pads	✓	Soft	1-person	✓	✓	✓	✓		
Corporate	1		✓	Soft	1-person	✓	✓	✓	✓	1 year	
Complete	2		✓	Soft	1-person	✓	✓	✓	✓	1 year	✓
Responder	2	Electrode Pads	✓	Shok Box®	2-person			✓	✓		
Aviation	2		TSO	Soft	2-person			✓	✓		

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Features for HeartSine® samaritan® PAD 450P AED



Features:

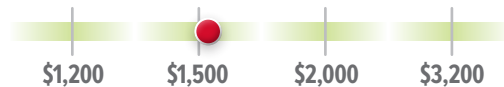
- Integrated CPR Rate Advisor™ provides CPR coaching with metronome plus real-time verbal and visual CPR-rate feedback
- Pad-Pak electrode pad and battery combination makes maintenance easy with only one item to replace
- Lightweight and compact - the smallest and lightest AED available
- Exceptionally rugged

Specifications:

- Warranty - 8 Years
- Water/Dust Resistance - IP56
- Weight - 2.4 lbs.
- Dimensions - 8.0" x 7.25" x 1.9"
- CPR Coaching - [Responsive](#)
- Electrode Pads Life - 4 Years
- Battery Standby Life - 4 Years

Package	Adult Electrode Pads	Pediatric Option	4 Year Battery	Carry Case	RespondER® AED/CPR Pack	Wall Cabinet	AED Wall Sign	AED Check Tag	AED Window/Wall Decal	Arch Medical Direction & Oversight	CPR/AED Training Class
AED Only	1		✓	Soft	1-person			✓	✓		
Small Business	1		✓	Soft	1-person	✓	✓	✓	✓		
School & Community	1	Electrode Pads	✓	Soft	1-person	✓	✓	✓	✓		
Corporate	1		✓	Soft	1-person	✓	✓	✓	✓	1 year	
Complete	2		✓	Soft	1-person	✓	✓	✓	✓	1 year	✓
Responder	2	Electrode Pads	✓	Shok Box®	2-person			✓	✓		

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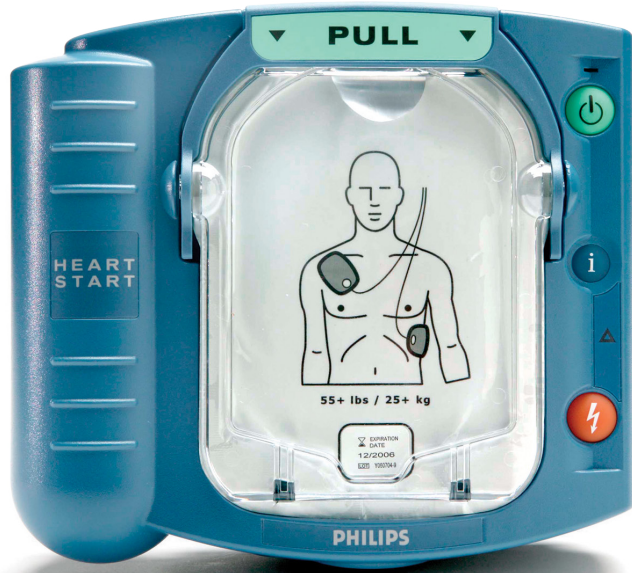
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Features for
Philips HeartStart OnSite AED



Features:

- Only AED available without a prescription, and perfect for a “carpeted” environment
- i button – gives information about what the AED needs if it is beeping, and starts on-demand CPR coaching
- “Quick Shock” capability – less than 10 seconds to deliver a shock after pausing CPR
- Easily converts to a non-shocking trainer by replacing standard cartridge with training cartridge

Specifications:

- Warranty - 8 Years
- Water/Dust Resistance - IP21
- Weight - 3.3 lbs.
- Dimensions - 8.3" x 7.4" x 2.8"
- CPR Coaching - [Passive](#)
- Electrode Pads Life - 2 Years
- Battery Standby Life - 4 Years

Package	Adult Electrode Pads	Pediatric Option	4 Year Battery	Carry Case	Responder® AED/CPR Pack	Wall Cabinet	AED Wall Sign	AED Check Tag	AED Window/Wall Decal	Arch Medical Direction & Oversight	CPR/AED Training Class
AED Only	1		✓	Semi-Rigid	1-person			✓	✓		
Small Business	1		✓	Semi-Rigid	1-person	✓	✓	✓	✓		
School & Community	1	Electrode Pads	✓	Semi-Rigid	1-person	✓	✓	✓	✓		
Corporate	1		✓	Semi-Rigid	1-person	✓	✓	✓	✓	1 year	
Complete	2		✓	Semi-Rigid	1-person	✓	✓	✓	✓	1 year	✓

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Features for
Philips HeartStart FRx AED



Features:

- Infant/child key rather than separate pediatric electrode pads means less steps during a child emergency, and key does not expire
- Extremely rugged and durable
- i button – gives information about what the AED needs if it is beeping, and starts on-demand CPR coaching
- Easily converts to a non-shocking trainer

Specifications:

- Warranty - 8 Years
- Water/Dust Resistance - IP55
- Weight - 3.5 lbs.
- Dimensions - 8.9" x 7.1" x 2.4"
- CPR Coaching - [Passive](#)
- Electrode Pads Life - 2 Years
- Battery Standby Life - 4 Years

Package	Adult Electrode Pads	Pediatric Option	4 Year Battery	Carry Case	Responder® AED/CPR Pack	Wall Cabinet	AED Wall Sign	AED Check Tag	AED Window/Wall Decal	Arch Medical Direction & Oversight	CPR/AED Training Class
AED Only	1		✓	Semi-Rigid	1-person			✓	✓		
Small Business	1		✓	Semi-Rigid	1-person	✓	✓	✓	✓		
School & Community	1	Key	✓	Semi-Rigid	1-person	✓	✓	✓	✓		
Corporate	1		✓	Semi-Rigid	1-person	✓	✓	✓	✓	1 year	
Complete	2		✓	Semi-Rigid	1-person	✓	✓	✓	✓	1 year	✓
Responder	2	Key	✓	Hard	2-person			✓	✓		
Aviation	2	Key	TSO	Semi-Rigid	2-person			✓	✓		

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Features for
Philips HeartStart FR3 AED

PROFESSIONAL MODEL



Features:

- Full-color, high-resolution LCD screen
- Easily add a secondary language for bilingual operation
- Infant/child key rather than separate pediatric electrode pads means less steps during a child emergency, and key does not expire
- Quick Shock technology – administer first shock in under 8 seconds

Available Unit Options:

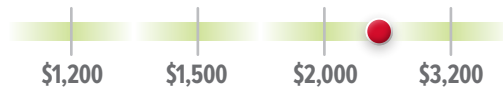
- ECG waveform option

Specifications:

- Warranty - 5 Years
- Water/Dust Resistance - IP55
- Weight - 3.5 lbs.
- Dimensions - 8.7" x 5.3" x 2.7"
- CPR Coaching - [Passive](#)
- Electrode Pads Life - 2 Years
- Battery Standby Life - 3 Years

Package	Adult Electrode Pads	Pediatric Option	3 Year Battery	Carry Case	Responder® AED/CPR Pack	Wall Cabinet	AED Wall Sign	AED Check Tag	AED Window/Wall Decal	Arch Medical Direction & Oversight	CPR/AED Training Class
AED Only	1		✓	Semi-Rigid	1-person			✓	✓		
Small Business	1		✓	Semi-Rigid	1-person	✓	✓	✓	✓		
School & Community	1	Key	✓	Semi-Rigid	1-person	✓	✓	✓	✓		
Corporate	1		✓	Semi-Rigid	1-person	✓	✓	✓	✓	1 year	
Complete	2		✓	Semi-Rigid	1-person	✓	✓	✓	✓	1 year	✓
Responder	2	Key	✓	Hard	2-person			✓	✓		
Aviation	2	Key	TSO	Semi-Rigid	2-person			✓	✓		

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Features for

Physio-Control LIFEPAK EXPRESS® AED



Features:

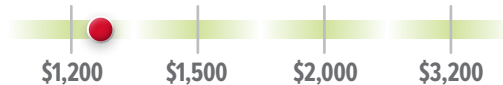
- Physio-Control's value AED - designed for the infrequent user or lay rescuer
- Opening the lid turns the unit on – no need to press the on/off button!
- Electrode pads and CHARGE-PAK bundle makes maintenance easy with only one item to purchase
- Patented ADAPTIV biphasic waveform whereby the first shock is delivered at 200 joules and the AED escalates the energy to 360 joules when conditions demand

Specifications:

- Warranty - 5 Years
- Water/Dust Resistance - IPX4
- Weight - 4.5 lbs.
- Dimensions - 9.5" x 8.0" x 4.2"
- CPR Coaching - [None](#)
- Electrode Pads Life - 2 Years
- Battery Standby Life - 2 Years

Package	Adult Electrode Pads	Pediatric Option	2 Year Battery	Carry Case	Responder® AED/CPR Pack	Wall Cabinet	AED Wall Sign	AED Check Tag	AED Window/Wall Decal	Arch Medical Direction & Oversight	CPR/AED Training Class
AED Only	1		✓		1-person			✓	✓		
Small Business	1		✓	Semi-Rigid	1-person	✓	✓	✓	✓		
School & Community	1	Electrode Pads	✓	Semi-Rigid	1-person	✓	✓	✓	✓		
Corporate	1		✓	Semi-Rigid	1-person	✓	✓	✓	✓	1 year	
Complete	1		✓	Semi-Rigid	1-person	✓	✓	✓	✓	1 year	✓
Responder	2	Electrode Pads	✓	Hard	2-person			✓	✓		

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AED
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Features for
Physio-Control LIFEPAK CR[®] Plus AED



Features:

- One of the most recognized names in defibrillation devices
- Featuring the same advanced technology trusted by emergency medical professionals—yet simple to use
- Electrode pads and CHARGE-PAK bundle makes maintenance easy with only one item to purchase
- Prompts to start CPR

Available Unit Options:

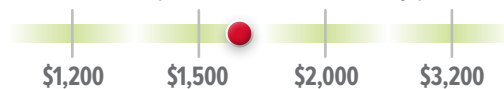
- Semi-automatic or fully-automatic

Specifications:

- Warranty - 8 Years
- Water/Dust Resistance - IPX4
- Weight - 4.5 lbs.
- Dimensions - 9.5" x 8.0" x 4.2"
- CPR Coaching - [None](#)
- Electrode Pads Life - 2 Years
- Battery Standby Life - 2 Years

Package	Adult Electrode Pads	Pediatric Option	2 Year Battery	Carry Case	RespondER [®] AED/CPR Pack	Wall Cabinet	AED Wall Sign	AED Check Tag	AED Window/Wall Decal	Arch Medical Direction & Oversight	CPR/AED Training Class
AED Only	2		✓	Semi-Rigid	1-person			✓	✓		
Small Business	2		✓	Semi-Rigid	1-person	✓	✓	✓	✓		
School & Community	2	Electrode Pads	✓	Semi-Rigid	1-person	✓	✓	✓	✓		
Corporate	2		✓	Semi-Rigid	1-person	✓	✓	✓	✓	1 year	
Complete	2		✓	Semi-Rigid	1-person	✓	✓	✓	✓	1 year	✓
Responder	2	Electrode Pads	✓	Hard	2-person			✓	✓		

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Features for Physio Control LIFEPAK 1000 AED

PROFESSIONAL MODEL



Features:

- Large intuitive screen is easy to read
- Easy customization of settings to meet your protocol needs in the field
- Patented ADAPTIV™ biphasic waveform provides full range of energy from 150 to 360 joules and is upgradeable
- Visible and accessible battery gauge to assess battery readiness
- CPR countdown timer provides direction for length of hand-on time based on system protocol
- cprMAX™ Technology minimizes CPR interruptions by allowing compressions to continue during AED charging

Available Unit Options:

- ECG waveform option

Specifications:

- Warranty - 5 Years
- Water/Dust Resistance - IP55
- Weight - 7.1 lbs.
- Dimensions - 10.9" x 9.2" x 3.4"
- CPR Coaching - [Responsive](#)
- Electrode Pads Life - 2 Years
- Battery Standby Life - 4 Years

Package	Adult Electrode Pads	Pediatric Option	4 Year Battery	Carry Case	Responder® AED/CPR Pack	Wall Cabinet	AED Wall Sign	AED Check Tag	AED Window/Wall Decal	Arch Medical Direction & Oversight	CPR/AED Training Class
AED Only	1		✓	Semi-Rigid	1-person			✓	✓		
Small Business	1		✓	Semi-Rigid	1-person	✓	✓	✓	✓		
Corporate	1		✓	Semi-Rigid	1-person	✓	✓	✓	✓	1 year	
Complete	2		✓	Semi-Rigid	1-person	✓	✓	✓	✓	1 year	✓
Responder	2	Electrode Pads	✓	Hard	2-person			✓	✓		

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Features for
ZOLL® AED Plus®



Features:

- CPR coaching and real-time feedback with use of the CPR-D Padz
- Lid designed to be placed under a victim's shoulders to optimize an open airway
- Uses consumer lithium 123A batteries
- Single piece electrode pads
- LCD text prompts

Available Unit Options:

- ECG waveform option
- Semi-automatic or fully-automatic

Specifications:

- Warranty - 7 Years
- Water/Dust Resistance - IP55
- Weight - 6.7 lbs.
- Dimensions - 11.5" x 9.5" x 5.25"
- CPR Coaching - [Responsive](#)
- Electrode Pads Life - 5 Years
- Battery Standby Life - 5 Years

Package	Adult Electrode Pads	Pediatric Option	5 Year Battery	Carry Case	RespondER® AED/CPR Pack	Wall Cabinet	AED Wall Sign	AED Check Tag	AED Window/Wall Decal	Arch Medical Direction & Oversight	CPR/AED Training Class
AED Only	1		✓	Soft	1-person			✓	✓		
Small Business	1		✓	Soft	1-person	✓	✓	✓	✓		
School & Community	1	Electrode Pads	✓	Soft	1-person	✓	✓	✓	✓		
Corporate	1		✓	Soft	1-person	✓	✓	✓	✓	1 year	
Complete	2		✓	Soft	1-person	✓	✓	✓	✓	1 year	✓
Responder	2	Electrode Pads	✓	Shok Box®	2-person			✓	✓		

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Features for
ZOLL® AED Pro®

PROFESSIONAL MODEL



Features:

- High-resolution LCD display for Lead II monitoring
- One-piece electrode pads option with instant feedback on rate and depth of CPR compressions
- Exceptionally rugged

Available Unit Options:

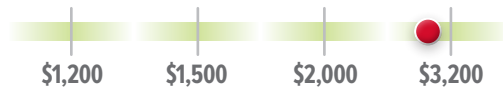
- One-piece CPR-D padz or stat-padz II electrode pads
- Manual override option
- Non-rechargeable or rechargeable battery

Specifications:

- Warranty - 5 Years
- Water/Dust Resistance - IP55
- Weight - 6.5 lbs.
- Dimensions - 9.4" x 9.2" x 3.0"
- CPR Coaching - [Responsive](#)
- Electrode Pads Life:
 - CPR-D padz: 5 Years
 - stat-padz II: 2 Years
- Battery Standby Life:
 - Non-rechargeable: 3 Years
 - Rechargeable: Varies

Package	Adult Electrode Pads	Pediatric Option	90 Day Battery	Carry Case	RespondER® AED/CPR Pack	Wall Cabinet	AED Wall Sign	AED Check Tag	AED Window/Wall Decal	Arch Medical Direction & Oversight	CPR/AED Training Class
AED Only	Choice		✓	Soft	1-person			✓	✓		
Corporate	1 CPR-D Padz		✓	Soft	1-person	✓	✓	✓	✓	1 year	
Complete	2 CPR-D Padz		✓	Soft	1-person	✓	✓	✓	✓	1 year	✓
Responder	2 stat-padz II	Electrode Pads	✓	Hard	2-person			✓	✓		

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Features

Comparison Chart

An interactive chart
Click on the AED image to go to the detail page



	CARDIAC SCIENCE			DEFIBTECH			HEARTSINE		PHILIPS			PHYSIO CONTROL			ZOLL	
	POWERHEART G3 PLUS	POWERHEART G5	POWERHEART G3 PRO	LIFELINE	LIFELINE VIEW	LIFELINE ECG	SAMARITAN PAD 350P	SAMARITAN PAD 450P	HEARTSTART ONSITE	HEARTSTART FRX	HEARTSTART FR3	LIFEPAK EXPRESS	LIFEPAK CR PLUS	LIFEPAK 1000	AED PLUS	AED PRO
WARRANTY	7 Years	8 Years	7 Years	8 Years	8 Years	8 Years	10 Years	8 Years	8 Years	8 Years	5 Years	5 Years	8 Years	5 Years	7 Years	5 Years
INGRESS PROTECTION	24	55	24	54	55	55	56	56	21	55	55	X4	X4	55	55	55
WEIGHT LBS.	6.6	5.7	6.6	4.2	<3	<3	2.4	2.4	3.3	3.5	3.5	4.5	4.5	7.1	6.7	6.5
DIMENSIONS (H" x W" x D")	12.4" x 10.6" x 3.3"	11.8" x 9.0" x 3.4"	12.4" x 10.6" x 3.3"	11.8" x 8.5" x 2.7"	9.5" x 7.3" x 2.3"	9.5" x 7.3" x 2.3"	8.0" x 7.25" x 1.9"	8.0" x 7.25" x 1.9"	8.3" x 7.4" x 2.8"	8.9" x 7.1" x 2.4"	8.7" x 5.3" x 2.7"	9.5" x 8.0" x 4.2"	9.5" x 8.0" x 4.2"	10.9" x 9.2" x 3.4"	11.5" x 9.5" x 5.25"	9.4" x 9.2" x 3.0"
CPR COACHING	Passive	Responsive	None	Passive	Passive	Passive	Passive	Responsive	Passive	Passive	Passive	None	None	Responsive	Responsive	Responsive
ELECTRODE PADS SELF TEST	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	N
ELECTRODE PADS LIFE	2 Years	2 Years	2 Years	2 Years	2 Years	2 Years	4 Years	4 Years	2 Years	2 Years	2 Years	2 Years	2 Years	2 Years	5 Years	CPR-D Padz: 5 Years Stat-padz II: 2 Years
BATTERY STANDBY LIFE	4 Years	4 Years	1 Year	5 or 7 Years	4 Years	4 Years	4 Years	4 Years	4 Years	4 Years	3 Years	2 Years	2 Years	4 Years	5 Years	3 Years
RECHARGEABLE BATTERY OPTION	N	N	Y	N	N	Y	N	N	N	N	Y	N	N	Y	N	Y
AVIATION OPTION	Y	N	N	N	Y	Y	Y	N	N	Y	Y	N	N	N	N	N
FULLY-AUTOMATIC OPTION	Y	Y	N	Y	N	N	N	N	N	N	N	N	Y	N	Y	N
MANUAL OVERRIDE	N	N	Y	N	N	N	N	N	N	N	Y	N	N	Y	N	Y
CONVERT AED TO TRAINER	N	N	N	Y	Y	Y	N	N	Y	Y	Y	N	N	N	N	N
STAND-ALONE TRAINER	Y	Y	Y	Y	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	N
ECG DISPLAY	N	N	Y	N	N	Y	N	N	N	N	Optional	N	N	Optional	Optional	Y



AED Features & Options

Semi-Automatic versus Fully-Automatic

A **semi-automatic AED** prompts the user to press a flashing shock button when the AED has determined a shock is needed. The AED will not deliver a shock unless this button is pressed.

A **fully-automatic AED** verbally notifies the rescuer a shock is advised and instructs them to “not touch the patient”, and then does a countdown to the shock stating “shock in 3, 2, 1; (shock); shock delivered; it is now safe to touch the patient.” The actual verbiage of these voice prompts vary by make and model. There is no shock button present on the device itself.

ECG Display, Manual Override and 3-Lead Monitoring

Some AEDs have the ability to show the patient’s ECG waveform on the screen. Many professional model AEDs have this built-in, while some require purchase of this feature. This allows the AED operator to view the ECG waveform during the rescue and, if necessary, use the AED’s manual override function to deliver a shock to the patient. Manual override and ECG display functions should only be used by qualified medical professionals who are trained in advanced life-support skills and in ECG interpretation.

The ECG waveform option also supports the ability to perform 3-lead monitoring on professional model AEDs; usually, this also requires the purchase of an additional 3-lead monitoring cable.

CPR Coaching Options

Passive CPR Coaching:

- ◆ **Metronome** - an audible tone or voice keeps

the rescuer on track for proper CPR chest compression rates

- ◆ **Two-minute countdown** - prompts rescuer to begin CPR, then interjects to continue “for one minute, 30 seconds”, then “continue for one minute”, etc until the last 5 seconds when it does a countdown and prompts the rescuer to “stop CPR” (voice prompts may vary).

Responsive CPR Coaching:

- ◆ **Depth** - a special monitor or “puck” is placed on the sternum (either separately or included in the electrode pads). During CPR, the AED monitors the depth of chest compressions and advises the rescuer to “press harder”, “press softer”, or, if compressions are being performed at the correct depth, says “good compressions”. Verbal prompts vary by model. Some AED models even include a visual monitor on the AED’s display to show depth of chest compressions.
- ◆ **Rate** - some AEDs have the ability to monitor the rate of compressions and advise the rescuer to “push faster”, “push slower”, or, if compressions are being performed at the correct rate, says “good speed”. Verbal prompts vary by model. A visual monitor is also present on the device for rate.
- ◆ **Recoil** - performing chest compressions properly (both depth and rate) is paramount, but recoil (allowing the chest to rebound, which fills the heart with blood) is also important. AEDs which include voice prompts for recoil will advise “press harder, fully release” to help place an emphasis on chest recoil.

No CPR Coaching:

- ◆ Some AEDs simply instruct the rescuer to “begin CPR” and “stop CPR” with no other coaching.

Rechargeable Batteries

With a push toward more “green” alternatives these days, you may have noticed many AEDs have a rechargeable battery option and you may be wondering if this is a good choice for your AED. When does it makes sense to have a rechargeable AED battery instead of a long-life lithium non-rechargeable battery? The cost seems to be about the same, so what are the main differences?

Non-rechargeable lithium batteries generally have a useful life of up to four to five years in standby mode. They are low maintenance (or no maintenance) when compared to rechargeable AED batteries. You place the battery in the AED and it’s ready for service for the next several years.

Rechargeable AED batteries need to be recharged often, at least monthly in most cases, which leads to a shorter life span for the battery. Replacement every 2 years is not uncommon. Charging time

for the various models can be anywhere from 2 hours to 15 hours (depending on which AED you have), and while the battery is charging it is not in the AED. Unless you have multiple batteries, this means your AED is not in service.

The rechargeable battery is more often found in the realm of the professional rescuer, where the AED is in a high usage environment, and recharging is more practical than regularly replacing a non-rechargeable battery, perhaps on a monthly basis. Professionals also possess the diligence to ensure the batteries are being recharged regularly. How many times have you picked up your digital camera with the rechargeable batteries, only to find the batteries have drained?

To summarize, rechargeable batteries make sense for professionals, where the AED is used often. For the majority of AED owners, non-rechargeable is the most cost-effective, low-maintenance, reliable choice.

How much should I expect to pay for an AED?

Pricing of AEDs varies by make and model and is mostly contingent upon available features. The great news is all AEDs do what they are designed to do - save lives! Due to the importance of their function, FDA strictly regulates AED manufacturers

and there is rigorous testing involved before approvals are granted. Spend what is right for your business and your budget, and rest assured a properly-maintained AED will be able to perform its job when needed.

What will arrive with my AED?

A basic AED package will usually include:

- ◆ The AED unit
- ◆ One set of adult electrode pads
- ◆ Battery
- ◆ Carry case
- ◆ Rescue kit - AED Superstore always includes a rescue kit with every AED
- ◆ Product manual and, in most cases, an orientation/training video

What other products are recommended?

- ◆ A wall cabinet or wall bracket and AED signage
 - Both items provide visibility for your AED
 - Cabinet provides security and protection
- ◆ Pediatric key or electrode pads
 - If your AED will potentially be used to rescue infants or children under 55 lbs.
 - Pediatric electrode pads contain an attenuator to regulate the amount of energy used in shocks
- ◆ A spare set of adult electrode pads
 - Electrode pads are a one-time-use item
 - If the adhesion of electrode pads is compromised during use (dirt, hair, water) and need to be removed, they will not re-adhere.
- ◆ Spare battery
 - In case of a dead battery when needed
 - Should be stored in case or where it can be easily retrieved in an emergency situation

Where should I place my AED?

Choose a location for your AED which is:

- ◆ Secure, visible and easily accessible (reception area, first aid center, cafeteria, fitness room, security desk, etc.)
- ◆ Near a telephone so 911 can be called if a cell phone or cell service is not available
- ◆ Within three to five minutes of any possible sudden cardiac arrest event; if unsure, use a stopwatch to time retrieval and return

Other items to consider include:

- ◆ Avoid placing AEDs in a locked area
- ◆ Signs indicating the location of the AED should be strategically placed
- ◆ Place cabinets and brackets according to [ADA regulations](#)

What to expect after your AED purchase

Regular Checks

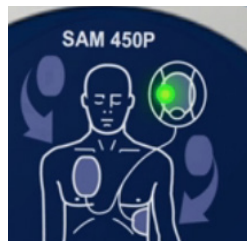
The AED will perform self-tests (on a daily, weekly, or monthly schedule, depending on AED model), but also requires regular maintenance by an individual. Monthly checks are recommended to ensure your AED is ready to be deployed effectively in a sudden cardiac arrest emergency:

Look at the AED for the following items (check your owner's manual for exact details on what you should look for):

- ◆ Is the AED's readiness indicator showing a passing status?
 - Check the expiration dates on the electrode pads (both installed in the AED and spare, including pediatric electrode pads, if available) and battery
 - If no items are expired, no further action is needed
- ◆ Is the AED's readiness indicator showing a failing status?
 - Most AEDs will provide a visual indicator of the problem (like a missing pads light or low battery warning), or offer a verbal prompt describing the problem (some models have an information button you can press to hear or see details on the problem) - check your AED's manual for specifics.
 - You may need to replace the AED's electrode pads or battery; if you are unsure why your AED is showing a failing status, call AED Superstore (at 800-544-0048) or your AED's manufacturer for help!
- ◆ Is the readiness indicator dark or not showing anything?
 - Your AED's battery has probably been completely depleted; replace the battery as soon as possible!
 - Also make sure to check expiration dates on the electrode pads and replace if needed

Listen to the AED - is the machine beeping steadily? This is an indication the AED needs attention.

- ◆ Check the expiration dates on the electrode pads and battery. If expired or nearing expiration, order replacement parts
- ◆ Install the replacement parts and the AED should return to a ready state. If not, contact the manufacturer to troubleshoot what could be wrong.



Replacement Supplies

Depending on the make and model of your AED, your schedule of parts replacement will vary. See each AED Product page for a description of the specific type of electrode pads and batteries your unit uses and how often they need to be replaced.

As a general rule, electrode pads need to be replaced every two years, and batteries every four to five years. Some AED models combine the

electrode pads and battery into a single item for purchase to simplify your AED's maintenance and only have one expiration date to track.

Pricing on replacement parts varies widely, again depending on the AED make and model, how often they need to be replaced, and the features of the replacement parts.

AED Batteries

If it seems like every AED uses a different battery, that's because they do. Each manufacturer, with the exception of one, has a unique patented battery for use in their machines, designed to optimize the performance of their device. Most batteries used in AEDs are lithium batteries. While rechargeable batteries are available for most AEDs, the majority of batteries used are non-rechargeable.

Why Lithium?

Lithium cells can produce voltages from 1.5v to about 3.9v, over twice the voltage of an ordinary zinc-carbon battery or alkaline battery. [Lithium batteries](#) also have a longer lifespan, which is how some AED manufacturers offer four to seven years of standby life on their lithium batteries.

What is the difference in batteries across AED makes and models?

In Currently Available Public Access Defibrillation (PAD) AEDs:

- ◆ **Cardiac Science Powerheart® AED G3 Plus & Cardiac Science Powerheart® G5 AEDs** - lithium battery with a 4-year operating life in standby.
- ◆ **Defibtech Lifeline™ & Defibtech Lifeline™**

AUTO AEDs - lithium battery with a choice of either a five or seven year operating life in standby. This AED also has a 9V lithium battery compartment within the main battery which is used to perform self-checks so the main battery is not depleted.

- ◆ **Defibtech Lifeline™ VIEW & Defibtech Lifeline™ ECG AEDs** - lithium battery with a 4-year operating life in standby.
- ◆ **HeartSine® samaritan® PAD 350P & HeartSine® samaritan® PAD 450P AEDs** - combination electrode pad and lithium battery pak (Pad-Pak) with a 4-year operating life in standby.
- ◆ **Philips HeartStart OnSite & Philips HeartStart FRx AEDs** - lithium battery with a 4-year operating life in standby.
- ◆ **Physio-Control LIFEPAK CR Plus & Physio-Control LIFEPAK Express AEDs** - replaceable CHARGE-PAK™ trickle-charges the AED's internal battery. The electrode pads and CHARGE-PAK™ are sold together and support a 2-year operating life in standby.
- ◆ **ZOLL® AED Plus** - uses ten consumer lithium 123A batteries which supports a 5-year operating life in standby. (ZOLL cautions only)

using Duracell or power one brand batteries - they do not suggest using Panasonic, Rayovac, or Varta batteries.)

Professional Model AEDs all use patented lithium batteries and have rechargeable options.

Discontinued AEDs still in service may or may not still have batteries and other accessories available, depending on the make and model.

TSO (Aviation) Batteries:

TSO stands for Technical Standard Order and is a minimum performance standard for specified materials, parts, and appliances used on civil aircraft. When authorized to manufacture a material, part, or appliance to a TSO standard, this is referred to as TSO authorization. Receiving a TSO authorization requires both design and production approval.

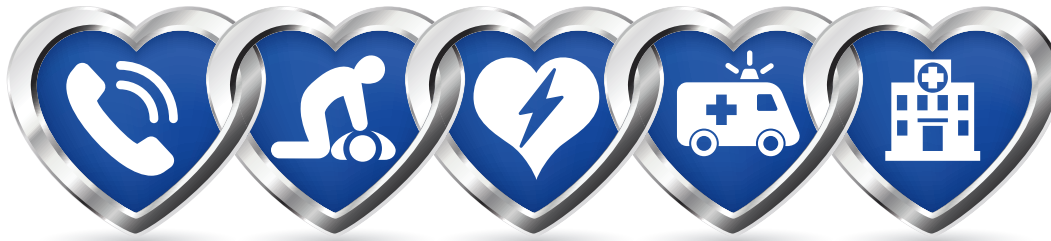
A TSO Authorization is not an approval to install and use the article in the aircraft, it only means the article meets the specific TSO and the applicant is authorized to manufacture it.

Some manufacturers have received this authorization and those batteries are labeled as such for use in civil aircraft. This means an airline purchasing an AED for their airplane would purchase a TSO battery, but this would not be relevant for a passenger packing an AED in their baggage.

For those traveling by air with their AED for medical purposes:

- ◆ Rechargeable batteries (lithium ion) can be carried on a plane in the device or as a spare, or can be checked as long as the battery is installed in the AED.
- ◆ LARGE non-rechargeable batteries, which are used in all AEDs except the ZOLL AED Plus and Physio-Control CR Plus, CANNOT be carried on or checked (because the batteries contain over two grams of lithium).
- ◆ SMALL non-rechargeable batteries like the ten used in the ZOLL AED Plus or the Physio-Control CR Plus/EXPRESS CHARGE-PAK CAN be carried on (in the device or as spares) but CANNOT be checked.

Sudden Cardiac Arrest Emergency Plan



Call 911

Quality CPR

Early Defibrillation

Early EMS Care

Advanced Medical Care

The Chain of Survival is critical to a successful sudden cardiac arrest outcome. Having a sudden cardiac arrest emergency plan in place ensures no links are weakened.

- ◆ Designate those responsible for calling 911 (it is okay if 911 is called more than once for an incident)
- ◆ Train your employees in quality CPR and how to use an AED. Find a training program which includes components relative to your business or facility's SOPs

- ◆ Schedule CPR/AED training classes for employees, and consider including optional training in first aid and bloodborne pathogens
- ◆ Ensure all employees know where the AED or AEDs are located
- ◆ Assign one person or position the task of performing routine maintenance checks on the AED so you know it is always ready in an emergency

Good Samaritan Law Compliance

All 50 states have [Good Samaritan Laws](#), but there are varying requirements to be covered - know and understand the requirements in your state. States may require any combination of the following:

- ◆ **Physician Medical Direction and Oversight** - in general, owners must have a licensed physician oversee their AED

program and approve the policies and procedures governing the AED's use

- ◆ **CPR/AED Training** - rescuers deploying the AED must be trained in CPR/AED use
- ◆ **Registration of your AED with local EMS** - local 911 dispatch centers need to be notified of the ownership and location of AEDs

Frequently Asked Questions (FAQs)

What is a typical warranty on an AED?

All new AEDs come with a manufacturer's five, seven or eight year warranty. If you find a company selling an AED with a shorter warranty, it is likely a used, refurbished device. Batteries and accessories have their own warranty periods.

What is an ECG display and do I need it?

AED models with an ECG display are designed for professional rescuers and use a 3-lead monitoring system rather than standard electrode pads to view the patient's heart rhythms. For the lay rescuer and most AED owners in general, an ECG display is unnecessary and not recommended.

Can an AED damage a heart?

No. While heart damage can occur to patients who get too much energy, AEDs do not produce anything near those levels.

Is training required to operate an AED?

Training is required by a number of state and local governments in order to be covered under their Good Samaritan laws. Even though AEDs are designed for easy use by untrained lay persons, we recommend formal training in their operation, along with CPR techniques outlined by the American Heart Association (AHA) or the American Red Cross (ARC).

Do I need medical authorization and how do I obtain it?

Medical authorization is a written prescription from a doctor authorizing us to send an AED to you. AEDs purchased from AED Superstore include

this authorization FREE! It is included with your shipment.

My battery has a date on it, is that an expiration date?

The date shown on an AED battery can be either a manufactured date, install by date, or expiration date.



Manufactured Date



Install By Date



Expiration Date

Batteries which contain an expiration date should be used and properly disposed of on or before the expiration date listed. Batteries which contain a manufactured or install by date should provide power to your AED for a specific number of years (which varies by brand) from the date the battery was installed in your device.

What do I do with my old batteries and pads?

Expired or used electrode pads can be safely disposed of simply by placing them in the regular trash. When disposing of AED batteries however, we recommend that you contact a local recycling center in your area to make sure they are disposed of correctly.

AED Superstore® is committed to the **RBRC Call2Recycle™** program to offer environmentally safe, cost-effective battery disposal and recycling for all our customers. Simply ship your expired and/or dead AED/defibrillator batteries to us and we will handle the rest! Your only obligation is the cost of shipping your used batteries. To learn more, [click here](#).

Do AED models with escalating power save more lives?

No. Some manufacturers have found patients can be defibrillated successfully with lower energy settings. If a series of shocks are required, their AEDs use escalating settings. However, other manufacturers continue to use higher energy settings because they believe it increases the efficacy of their units. Both approaches work.

Can I lock an AED cabinet purchased from AED Superstore?

None of the AED cabinets available from AED Superstore include the ability to lock. Many cabinets include an alarm (notifying others the cabinet is being opened) along with keys to disable the alarm when opening the cabinet in a non-rescue situation. We encourage customers to purchase an alarm and strobe with their cabinet to deter theft, but DO NOT recommend locking AED cabinets as valuable life saving time would be lost trying to locate a key.

Is there any value in the “free” on-site maintenance offered by some companies?

AEDs are virtually maintenance-free. All models perform regular electronic self-checks with an indicator showing the AED is in a “ready” state. An AED will notify you if it’s not [ready to rescue!](#) Some companies offer “on-site” maintenance to “calibrate” or “test shock” the machine. These tests are unnecessary and do nothing more than wear out the device’s battery prematurely.

Are all AED dealers the same?

No. Some AED sales companies offer “free” accessories and services already included from the manufacturer. Others offer their own “grants” which are no more than sale prices with extra paperwork for you to fill out. AED Superstore

offers all models from all AED manufacturers, and always provides gimmick-free price quotes and unbiased information. We provide friendly, no-hassle assistance to help you determine what is best for you. We really do care about the success of your AED program!

Why don’t I see the LIFEPAK 500, HeartStart FR2, or other older AEDs in this guide?

AEDs are regulated by FDA (Food & Drug Administration) in the United States, and they require all AED manufacturers to receive Pre-Market Approval (PMA) to market and sell AEDs. Some older model discontinued AEDs (including the Philips HeartStart Forerunner, Philips HeartStart FR2, Physio-Control/Medtronic LIFEPAK 500, Welch Allyn AED 10, and Welch Allyn AED 20), which are still in use and operating properly, have not been part of the PMA process and therefore cannot be resold. Electrode pads and batteries for some of these AEDs may still be available, but most accessories will be discontinued in the near future.

Should I buy a used or refurbished AED?

There are used and/or refurbished AEDs out there. Be careful not to purchase an AED that has not received pre-market approval from FDA (see above FAQ). Also, you should consider the fact a used or refurbished AED may be out of the manufacturer’s warranty, which could be a problem if service is ever required. Being beyond the scope of the manufacturer’s warranty could have far reaching consequences or liability where the question of indemnity is applied.

Cost can be a major factor in the purchase of an AED, and a used or refurbished AED may seem like an attractive alternative in the short term, but in the long term a used or refurbished AED may be more costly in multiple ways.

Who should I buy my AED from?

Finding a provider of AEDs you have confidence in is key to implementing your AED Program. Look for a company who trains their employees thoroughly in every product they sell; a company with an outstanding reputation in the EMS field as well as with large and small

business owners; a company who is unbiased with regard to any one manufacturer or model AED; a company who will take the time to answer your questions and support you even after the sale; a company like [AED Superstore!](#)

AED Superstore Advantage

- ◆ **Same-Day Shipping** - Because we stock the largest number of AEDs and accessories anywhere, we ship most orders the same day
- ◆ **FREE Shipping** - Available on all orders of \$99 or more in the contiguous USA
- ◆ **Package Specials** - Get your AED of choice, complete with matched accessories at a special low price
- ◆ **Secure Shopping** - By phone, web, fax, or mail; your order is guaranteed safe and secure
- ◆ **Absolute Privacy** - We never sell or advertise customer information
- ◆ **Pre-Approved Purchase Orders** - For all EMS, fire, and law enforcement agencies
- ◆ **GSA Advantage Program Available**
- ◆ **30 Day Money-Back Guarantee**

Help spread the word and raise awareness!

- ◆ Since an AED is the only treatment for sudden cardiac arrest, knowing what AEDs are, where they are located, and how to use one can mean the difference between life and death for a coworker, loved one, or total stranger. Early bystander intervention in a sudden cardiac arrest emergency is key to a victim's survival!
- ◆ Look for AED signs wherever you are and point them out to people you are with. Explain what AEDs are.
- ◆ Encourage others to place AEDs in their community. The more AEDs available, the more lives can be saved!
- ◆ Maintain your CPR/AED training certification and encourage others to receive training. Training builds confidence, and confidence spurs action.