

Millis Fire/Rescue

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In an effort to make our community a safer community and obtain the designation as a heart safe community, I am trying to have all municipal buildings and schools outfitted with Automatic External Defibrillators (AED's).

Sudden death at any age is a tragedy. When the victim is a child, a coworker or a friend the tragedy is compounded, with many years of life lost and dreams unfulfilled. And every day nearly 1000 men, women and children die from sudden cardiac arrest (SCA). It doesn't have to be this way. Equipping schools and municipal buildings with automated external defibrillators (AEDs) and teaching school nurses, athletic trainers, librarians, office workers, DPW employee's and others to use them can give anyone struck down by SCA another chance at life. AEDs deliver a pulse of electricity, the single most effective way to restore the normal rhythm of a heart quivering in ventricular fibrillation (VF) is the most common cause of sudden cardiac arrest. We've all seen the heartbreaking headlines:

A ball strikes a 14-year-old lacrosse player, Louis, in the chest, sending his heart into a deadly irregular rhythm. Although he receives CPR and a hospital is less than a mile away, it takes 12 minutes for the boy to receive defibrillation. He dies.

The story had a different ending in the following cases, where the Town was equipped with an AED that was used to deliver a lifesaving shock:

A 15-year-old girl collapses during basketball practice. The high school trainer uses an AED kept near the court to resuscitate her.

Clinton Mayor Janice Kovach on April 22, 2014 presents town public works and water employee Pete Bross with a proclamation for saving the life of foreman Wayne Smith, who suffered a heart attack when the two were working outside together, grabbing a nearby AED Bross was able to shock Smith and revive him.

Every minute counts. If people in Ventricular Fibrillation receive CPR and the lifesaving AED shock within three minutes of collapse, the survival rate can increase up to 74 percent. Reducing response time by even one or two minutes from collapse to shock can mean the difference between death and survival. Because early defibrillation is becoming the standard of care in many communities, the public will increasingly expect to find AEDs in public areas.

Early defibrillation at a school or sports field, library, garage or gym is just one link in the "Chain of Survival" defined by the American Heart Association, which requires:

Early recognition and reporting of emergencies like cardiac arrest

CPR initiated quickly by bystanders

Early defibrillation by the rescuers at the scene, such as school staff, coworkers

Advanced cardiac life support by medical professionals to stabilize the victim

And treatment at an appropriate facility



I have arranged with a local dealer to purchase all new AED's for the Fire and Police departments along with the Town Hall, Schools, DPW garage and the Library. The cost is \$1,500 per unit a greatly reduced price in comparison to other competitors at \$2,300.

Unit Locations:

Fire Department Car 1, Ambulance 1, Engine 2 and the Lobby

Police Department 6 front line police cruisers

Town Hall Replace the 2 current units

Library 1 Unit at the main desk

DPW 1 Unit in garage

Schools 2 at Clyde Brown, 2 at High School and 1 for athletic trainer

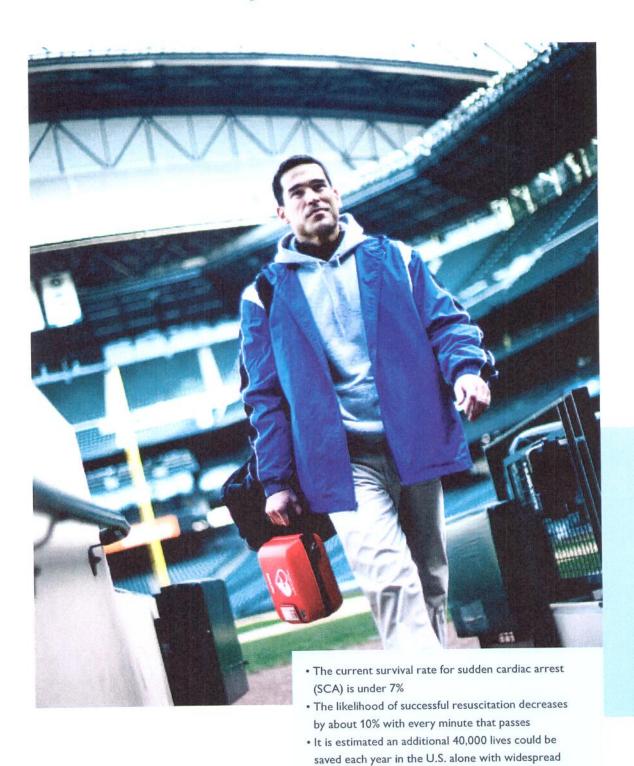


For those who get there first

Philips HeartStart FRx Defibrillator



Anyone, anywhere,



Philips HeartStart FRx Defibrillator

access to AEDs1

anytime

Power to save a life

Each year sudden cardiac arrest (SCA) strikes nearly 300,000 people in the US, 700,000 people in Europe, and hundreds of thousands more worldwide. More people die from SCA than from breast cancer, prostate cancer, house fires, handguns, traffic accidents, and AIDS combined.

SCA can happen to anyone, anytime, anywhere and sometimes in extreme conditions. Rely on the Philips HeartStart FRx Defibrillator to be up to the task. In the hands of those who get there first, it provides the power to help save a life.



Coming to the rescue

In many emergency situations, police are often the first to arrive on the scene, and early defibrillation by these first responders has been shown to improve survival. 2,3



Taking care of business

Thirteen percent of workplace fatalities reported in 1999 and 2000 were due to cardiac arrest.⁴



Protecting kids, parents and teachers

An estimated 5,000-7,000 children in the U.S. succumb to sudden cardiac arrest annually,⁵ many related to sporting events.

Rugged and reliable



Prescription required.

The Philips FRx Defibrillator features technological advancements to help in treating the most common cause of SCA. It's designed to be easy to set up and use, as well as rugged and reliable for those who get there first. On the scene with law enforcement, on the field with student athletes or on the job with employees, the FRx Defibrillator is the solution for treating SCA in environments and conditions too demanding for other defibrillators.

Bringing innovation to the treatment of cardiac arrest

Preconnected SMART Pads II

SMART Pads II can be used for both adults and children. They eliminate the expense of having to purchase different sets of pads for different patient types. SMART Pads II enable the FRx to keep pace with responders by adjusting to their actions.

Infant/Child key

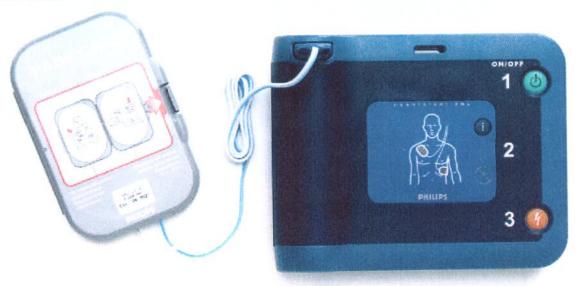
Simply insert the Infant/Child key into the FRx to signal to the device that you're treating an infant or a child. The defibrillator adjusts to provide special pads placement and CPR instructions. The pads icons also flash to show you the optimized pads placement, and the device reduces the shock energy to a level more appropriate for an infant or a child.

Intuitive

Clean design and clear voice instructions, including CPR coaching, are designed to help instill the confidence that's needed when treating a person in cardiac arrest.

Wireless Data Transfer

Infrared data port for easy transmission to a Smartphone or PC running Event Review software, without cables or hardwire compatibility issues.



Proven therapy

At the core of all HeartStart Defibrillators is SMART Biphasic technology. The Philips SMART Biphasic waveform is highly effective, yet minimizes harmful side effects. Its effectiveness is backed by over 40 published, peer-reviewed studies.⁶

SMART Analysis automatically assesses the victim's heart rhythm and is designed not to deliver therapy unless the rhythm is determined to be shockable — even if the Shock button is pressed. And with patented Quick Shock, the FRx is among the fastest in class at delivering a shock after CPR. Studies show that minimizing time to

shock after CPR may improve survival.^{7,8,9,10,11}
As American Heart Association Guidelines 2005
note, "Reduction in the interval from compression
to shock delivery by even a few seconds can increase
the probability of shock success."¹²

Designed for real world use

The Philips HeartStart FRx Defibrillator is exceptionally rugged. Designed to surpass rigorous testing requirements, the FRx withstands jetting water, loads up to 500 pounds, and a one-meter drop onto concrete.

Easy as 1-2-3 in an emergency



Press the green
On/Off button, which
activates voice instruction
and visual icons.



Place the pads on the patient as directed.



When advised by the device, press the orange Shock button.

Reliability backed by Philips

Every HeartStart FRx goes through a 120-point quality test before it leaves the factory. The HeartStart FRx Defibrillator is powered by an easy-to-install, long-life (four-year) battery, so you know the device is charged and ready. The device's automated daily, weekly, and monthly self-tests check pad readiness, and verify functionality and calibration of circuits and systems. With over 85 tests, the FRx is one of the most comprehensive self-testing devices on the market and is virtually maintenance-free. The blinking green "Ready" light on the defibrillator is your assurance that the device has passed its last self test and therefore is ready for use.

Built on a platform of proven ease-of-use

The HeartStart FRx Defibrillator was designed to be as easy to use as the HeartStart OnSite Defibrillator and shares many of its features, including CPR coaching and intuitive icon-driven operation. Small and lightweight – just 3.5 lbs/1.5 kg – the FRx is equipped to direct you through the resuscitation of a SCA victim.

The HeartStart FRx guides you through every step with clear, calm voice commands and descriptive visual icons. The FRx even reminds you to call emergency medical services (EMS). Pressing the blue i-button activates HeartStart CPR Coaching for assistance with CPR. The flashing icons and the quick reference guide can be used to lead you through the defibrillation steps – even in situations where hearing voice instructions is a challenge.

Once EMS arrives, hand-off is fast and easy because the FRx is compatible with advanced defibrillators like the HeartStart MRx. With HeartStart adapters, our pads can be plugged into devices from other manufacturers to ensure continuity of care.

Designed to be the easiest-to-own AED

Easy to set up

The HeartStart FRx Ready-Pack configuration arrives to you complete and virtually ready to rescue. Just pull the green tab to initiate the FRx self-test, confirming its readiness for use, and put the device right into service. The FRx Ready-Pack comes with the FRx already inside its carry case, pads pre-connected, battery inserted, and a set of spare pads in place. Setup is easy, and you have the peace of mind of knowing the device is deployed correctly.

Establishing a successful program from the start

As the world leader in automated external defibrillators (AEDs), we're also a leader in providing products and services designed to help you establish and maintain a successful AED program, including SMART Track AED program management, medical direction, access to training providers, and post-event support options.

Our customers agree that with Philips, you're well prepared, even across multiple sites with hundreds or thousands of employees. Philips experts have helped define industry best practices in AED program management, and we support American Heart Association and European Resuscitation Council guidelines for early defibrillation programs.

HeartStart FRx Defibrillator specifications

Defibrillator		Patient analys	s system	
Defibrillator family	Order 861304. Defibrillator, battery, SMART Pads II (1 set), Setup and Maintenance Guides, Owners Manual, Quick Reference Guide, Date sticker	Patient analysis	Evaluates patient ECG to determine if a rhythm is shockable. Rhythms considered shockable are ventricular fibrillation (VF) and certain ventricular tachycardias (VT) associated with lack of circulation. For safety reasons, some VT rhythms associated wit circulation will not be interpreted as shockable, and some very low-amplitude or low-frequency rhythms will not be interpreted as shockable VF	
HeartStart FRx Ready-Pack configuration	Order Option R01. Defibrillator, battery, carry case, SMART Pads II (1 pre-connected set, 1 spare set), Setup and Maintenance Guides, Owners Manual, Quick Reference Guide, Date Sticker			
Waveform	Truncated Exponential Biphasic. Waveform parameters adjusted as a function of each patient's impedance	Sensitivity/ specificity	Meets AAMI DF80 guidelines and AHA recommendations for adult defibrillation	
Therapy	Adult defibrillation: Peak current 32A (150 J nominal into a 50-ohm load). Pediatric defibrillation with optional FRx Infant/Child key installed: Peak current 19A (50 J nominal into	Shock advised	Able to deliver a shock as soon as the device indicates a shock is advised	
		Quick Shock	Able to deliver a shock after the end of a CPR interval, typically in 8 seconds	
Protocol	50-ohm load) Device follows preconfigured settings. Defibrillation and CPR protocol can be customized	Shock-to-Shock cycle time	Typically less than 20 seconds between shocks in a series	
	using HeartStart Event Review software	Artifact detection	Allows accurate ECG analysis even in the presence of most pacemaker artifact and	
User interface	David desired and the state of		electrical noise sources. Other artifacts are detected and corrective voice prompts issued	
Instructions	Detailed voice prompts and visual icons guide responder through use of the defibrillator	Battery (M507	A PART AND THE PART AND ADDRESS OF THE PART AND ADDRES	
CPR coaching	Voice coaching for adult and infant/child CPR provides instructions and audio cues for the appropriate number, rate and depth of chest compressions, as well as for each breath	Item number(s)	Standard: M5070A Aviation:989803139301 (TSO C-142-U.S. only)	
		Туре	9 Volt DC, 4.2 Ah, lithium manganese dioxide, disposable long-life primary cell	
Controls	Green On/Off button, blue i-button, orange Shock button, optional Infant/Child key	Capacity	Minimum 200 shocks or 4 hours of operating time (EN 60601-2-4:2003)	
Indicators	Ready light, blue i-button, caution light, illuminated pads, icons, Shock button lights up when shock is advised	Install-by date	Battery is labeled with an install-by date of at least 5 years from date of manufacture	
Physical		Standby life	Four years typical when battery is installed by the	
Size	2.4" × 7.1" × 8.9" (6 cm × 18 cm × 22 cm) D × H × W		install-by date. (Will power the AED in standby state within the specified standby temperature range, assuming 1 battery insertion test and no defibrillation uses)	
Weight	With battery and pads case: 3.5 lbs. (1.5 kg)	SMART Pads I		
Environmental/	physical requirements	Item number	989803139261	
Sealing	Waterjet proof IPX5 per IEC60529 Dust protected IP5X per IEC60529	Active surface	12.4 ² (80 cm ²) each 13.2 ² (85 cm ²) each	
Temperature	Operating/Standby: 32° - 122° F (0°- 50° C)	area Cable length	48" (121.9 cm)	
Altitude	0 to 15,000 feet	Use-by date	Pads case is labeled with a use-by date of at least	
Aircraft	Device: RTCA/DO-160D;1997	Ose-by date	2 years from date of manufacture	
Crush	500 pounds	Infant/Child Key	Item # 989803139311	
Vibration	Operating: meets MILSTD 810F Fig.514.5C-17, random;	Training Pads	ii	
	Standby: meets MILSTD 810F Fig.514.5C-18,	Item number	989803139271	
EMI (radiated/ immunity)	swept sine CISPR II Group I Class B, IEC 61000-4-3, and IEC 61000-4-8	Function	Special pads place HeartStart FRx into training mode and disable its energy delivery capability. Features eight real-world training scenarios	
SECURIOR DE COMPANION	and transmission	Automated an	d user-activated self-tests	
Infrared	Wireless transmission of event data to a Smartphone or PC, using the IrDA protocol	Control of the Contro	Tests internal circuitry, waveform delivery system, pads, and battery capacity	
HeartStart Event Review software	Data management software (optional) for download and review of data retrieved through	Pads integrity test	Specifically tests readiness-for-use of pads (gel moisture)	
Data stored	defibrillator's infrared data port First 15 minutes of ECG and the entire incident's	Battery insertion test	Upon battery insertion, extensive automatic self- tests and user-interactive test check device readines	
**************************************	events and analysis decisions	Status indicators	Blinking green "Ready" light indicates ready for use Audible "chirp" indicates need for maintenance	
			- 100	

^{*} Refer to the HeartStart FRx Defibrillator Owner's Manual for detailed product instructions

All specifications based on 25° C unless otherwise noted. The defibrillator and its accessories are made of latex-free materials.

Philips Healthcare is part of Royal Philips Electronics

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HeartStart Defibrillators +1 978 659 3332 800 263 3342 (toll free, US only) Philips is a Global 500 company and one of the world's largest medical products companies.

Philips has shipped nearly three-quarters of a million AED units.

Philips HeartStart defibrillators are deployed on airlines and in airports, workplaces, schools, healthcare facilities, and communities worldwide.

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Please visit www.philips.com/FRx for more information



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