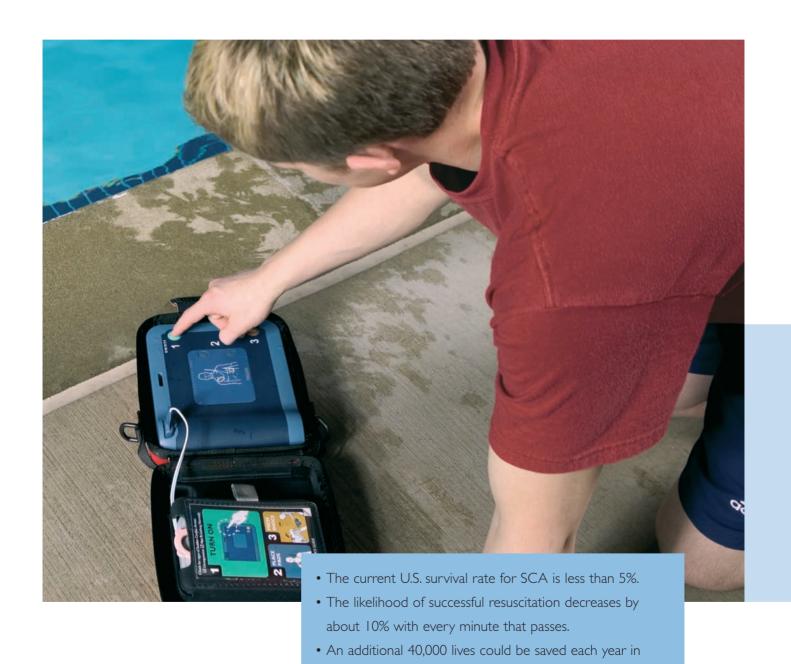


For those who get there first

Philips HeartStart FRx Defibrillator Product information



Sudden cardiac anyone, anytime,



the U.S. alone with widespread access to defibrillators.

arrest can happen to anywhere.

Power to save a life

Sudden cardiac arrest (SCA) is one of the leading causes of death in the United States, striking more than 340,000 victims each year, and hundreds of thousands more worldwide. Alors More people die from SCA than from breast cancer, prostate cancer, house fires, hand guns, 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 save a life.



Coming to the rescue
Often first on the scene of an
emergency, police forces equipped with
AEDs can cut defibrillator response time
to SCA victims by three minutes.⁴



Taking care of business
Thirteen percent of workplace fatalities
reported in 1999 and 2000 were due
to cardiac arrest.⁵



teachers

An estimated 5,000-7,000 children in the U.S. succumb to sudden cardiac arrest annually,⁶ many related to sporting events.

Protecting kids, parents and

The Philips HeartStart

FRx Defibrillator



For more than a century, Philips has pioneered technology that makes life better. Today, we're taking this commitment one step further, creating products that not only enhance life, but also preserve it. The Philips FRx Defibrillator is the newest member of the HeartStart family of defibrillators designed with new technological advancements to help in treating the most common cause of SCA.

The Philips HeartStart FRx Defibrillator is designed to be easy to use, 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 from ventricular fibrillation in environments and conditions too demanding for many other defibrillators.

The HeartStart FRx Defibrillator carries innovation in its genes. Building on the successes of the other members of the HeartStart family of defibrillators, the FRx brings innovations to the treatment of SCA.

The HeartStart FRx Defibrillator brings innovations to the treatment of SCA

Preconnected SMART Pads II

Pads for all patients. Save valuable time in an emergency with preconnected pads for use on adults and children. SMART Pads II eliminate the expense of having to purchase different pads sets for different patient types. What's more, SMART Pads II enable the FRx to keep pace with responders by adjusting to their actions.

Wireless Data Transfer

The FRx provides a mobile, wireless solution for data management using the Palm® handheld platform. It features an infrared data port for easy transmission of information without cables or hardwire compatibility issues.

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 appropriate pads placement and the device reduces the shock energy to a level more appropriate for an infant or a child (less than 55 pounds or 8 years of age).

CPR Coaching

The HeartStart FRx offers the industry's first and only CPR Coaching feature for use on adults and children. CPR Coaching reminds the responder of CPR basics through detailed voice instructions.



Proven therapy

At the core of all HeartStart Defibrillators is SMART Biphasic technology. The HeartStart FRx Defibrillator's biphasic waveform delivers a highly effective defibrillation shock that is also gentle to the heart. No other external defibrillation therapy has been supported by more published clinical data.⁷

SMART Analysis, a proven Philips technology for heart rhythm assessment, ensures that the FRx Defibrillator only shocks when it should. SMART Analysis automatically assesses the victim's heart rhythm and is designed not to deliver a shock unless the rhythm is determined to be shockable – even if the Shock button is pressed.

And with patented Quick Shock, the FRx is fastest in class at delivering a shock after CPR. Studies show that minimizing time to shock after CPR may improve survival. As American Heart Association Guidelines 2005 notes, "Reduction in the interval from compression to shock delivery by even a few seconds can increase the probability of shock success."

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.



Place the pads on the patient as directed.



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

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. Although small and lightweight – just 3.5 pounds – 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.

Providing a complete, reliable solution

Reliability backed by Philips

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 the pads 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 is ready for use.

Philips HeartStart Essentials — The key to a successful early defibrillation program

Philips helps implement a comprehensive program with most everything you and your Medical Director will need to help save a life from sudden cardiac arrest. We'll get you started with pre-implementation consulting and site assessments. We can manage your everyday needs including medical direction from a licensed physician, web-based program management, data management software, and responder and instructor training. Philips offers ongoing support with a five-year warranty, optional extended warranty and continued customer support from supplies ordering to technical assistance.

Product specifications

Defibrillator		Battery	
Model	HeartStart FRx Defibrillator	Item Number(s)	Standard: M5070A
Model Number	861304	T	Aviation: 989803139
How Supplied	Defibrillator, battery (1), SMART Pads II (1 set), Owner's Manual, Quick Reference Guide	Туре	9 Volt DC, 4.2 Ah, lit disposable long-life
Waveform	Truncated Exponential Biphasic. Waveform parameters adjusted as a function of each patient's impedance.	Capacity	Minimum 200 shock (EN 60601-2-4:200)
Energy	Single energy output: Adult: nominal 150 Joules into a 50-ohm load	Install-by Date	Battery is labeled w years from date of n
Protocol	Infant/Child: nominal 50 Joules into a 50-ohm load Device follows preconfigured settings. Defibrillation and CPR protocol can be customized using HeartStart Event Review or HeartStart Configure software.	Standby Life	Four years typical w by date. (Will power specified standby ter battery insertion tes
User Interface		SMART Pads II	
Instructions	Detailed voice prompts and visual icons guide	Item Number	989803139261
	responder through use of the defibrillator.	How Supplied	Disposable pads cas
CPR Coaching	Voice coaching for adult and infant/child CPR provides		defibrillator pads. H into device for prec
	instructions and audio cues for the appropriate number, rate and depth of chest compressions, as well as for	Active Surface Area	12.4 in2 (80 cm2) ea
	each breath.	Cable Length	48 inches (121.9 cm
Controls	Green On/Off button, blue i-button, orange Shock button, optional Infant/Child key	Use-by Date	Pads case is labeled years from date of n
Indicators	Ready light, blue i-button, caution light, illuminated pads, icons, Shock button lights up when shock is advised.	Infant/Child Key Item Number	989803139311
Physical			
Size	2.4 x 7.1 x 8.9 inches (6 x 18 x 22 cm) H x D xW	Training Pads II	
Weight	With battery and pads case: 3.5 lbs. (1.5 kg)	Item Number	989803139271
	Without battery or pads case: 2.6 lbs. (1.2 kg)	Function	Special pads place H and disable its energ
Environmental			real-world training
Sealing	Waterjet proof IPX5 per IEC60529 Dust protected IP5X per IEC60529	Automated and User-activated Self-tests	
Temperature	Operating/Standby: 32° - 122° F (0° - 50° C)	Daily Automatic Self-tests	Tests internal circui
Altitude	0 to 15,000 feet	Pade Integrity Test	and battery capacity
Aircraft	Device: RTCA/DO-160D; 1997	Pads Integrity Test	Specifically tests read
Crush	500 pounds	Battery Insertion Test	Upon battery insert and user-interactive
Vibration	Operating: meets MILSTD 810F Fig. 514.5C-17, random; Standby: meets MILSTD 810F Fig. 514.5C-18, swept sine.	Status Indicator	Blinking green "Read
EMI (Radiated/Immunity)	CISPR II Group I Class B, IEC 61000-4-3,	Data Recording and Transmission	
Designs And Late Co.	and IEC 61000-4-8	Infrared	Wireless transmissi PDA, using the IrDA
Patient Analysis Systen	n	HoartStart Event	Data managament s

9 Volt DC, 4.2 Ah, lithium manganese dioxide, disposable long-life primary cell.
Minimum 200 shocks or 4 hours of operating time (EN 60601-2-4:2003).
Battery is labeled with an install-by date of at least five years from date of manufacture.
Four years typical when battery is installed by the install by date. (Will power the AED in standby state within th specified standby temperature range, assuming one battery insertion test and no uses.)
989803139261
Disposable pads case containing adhesive multifunction defibrillator pads. HeartStart plug style connector click into device for preconnected pads solution.
12.4 in2 (80 cm2) each
48 inches (121.9 cm)
Pads case is labeled with a use-by date of at least two years from date of manufacture.
989803139311
989803139271
Special pads place HeartStart FRx into training mode and disable its energy delivery capability. Features 8

Aviation: 989803139301 (TSO C-142-U.S. only)

Data	Recording	and	Iransm	ssion

Infrared	Wireless transmission of event data to a PC or Palm [®] PDA, using the IrDA protocol.
HeartStart Event Review Software	Data management software (optional) for download and review of data retrieved through defibrillator's infrared data port.
Data Stored	Stores first 15 minutes of ECG and the entire incident's events and analysis decisions.

Tests internal circuitry, waveform delivery system, pads

Specifically tests readiness-for-use of pads (gel moisture).

Upon battery insertion, extensive automatic self-tests and user-interactive test check device readiness. Blinking green "Ready" light indicates ready for use.

* 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.

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 with circulation will not be interpreted as shockable, and some very low-amplitude or low-frequency rhythms will not be interpreted as

shockable VF.

Sensitivity/Specificity Meets AAMI DF80 guidelines and AHA

recommendations for adult defibrillation (Circulation

1997;95:1677-1682).

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 eight seconds.

Shock-to-Shock CycleTime

Typically less than 20 seconds between shocks in a series.

are detected and corrective voice prompts issued.

Artifact Detection Advanced signal processing allows accurate ECG analysis even in the presence of most pacemaker artifact and electrical noise sources. Other artifacts

Philips Medical Systems is part of Royal Philips Electronics

Interested?

Would you like to know more about our innovative products? Please do not hesitate to contact us. We would be glad to hear from you.

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Philips—The trusted choice

- A Fortune Global 500 company, Philips is one of the world's largest medical products companies with annual revenue of over \$7 billion.
- With over 350,000 automated external defibrillators installed, Philips is the leader in public access defibrillation.⁹
- Over 7 billion HeartStart Defibrillator service hours have been logged, with an additional 7 million added every day.
- Over 17% of Fortune 1000 companies, 8 out of 10 major airlines, and 43 professional sports teams rely on Philips HeartStart Defibrillators.

To learn more about the HeartStart FRx Defibrillator and Philips Medical Systems, visit www.philips.com/heartstart or call: I-800-453-6860.

Palm is a registered trademark owned by Palm, Inc.

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- ⁹ Frost and Sullivan.



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