

Philips FRx Defibrillator

Easy to use, rugged and reliable. This AED is designed for all on-the-spot responders. It has a pediatric key instead of pediatric pads. The only AED on the market with this feature.



Preconnected SMART Pads II Pads for all patients. Save valuable time in an emergency with pre-connected 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.

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).

Weight: With battery and pads case: 3.5 lbs. (1.5 kg) and without battery or pads case: 2.6 lbs. (1.2 kg)

Shock-to-Shock Cycle Time: Typically less than 20 seconds between shocks in a series.

Estimated 10-year cost: Estimated cost over 10 years when replacing pads at year 3, 5, 7 and 9 and a battery at year 5 and 10 is \$594

Warranty: 8 years

Options:

FRx Complete Package:

Includes spare pads, battery, pediatric key, soft carry case and fast response kit.

FRx Basic Package:

Only includes installed pads and battery plus soft carry case and fast response kit



HeartStart FRx AED specifications

Defibrillator

Defibrillator family	Model number: 861304 Includes defibrillator, battery, SMART Pads II (1 set), Setup and Maintenance Guides, Owner's Manual, Quick Reference Guide, date sticker
FRx Ready-Pack configuration	Order Option: R01 Includes defibrillator, battery, carry case, SMART Pads II (1 pre-connected set, 1 spare set), Setup and Maintenance Guides, Owner's Manual, Quick Reference Guide, date sticker
Waveform	Biphasic truncated exponential; waveform parameters are automatically adjusted as a function of patient defibrillation impedance
Therapy	Adult defibrillation: nominal peak current 32 A (150 J nominal into a 50 ohm load) Pediatric defibrillation with optional FRx Infant/Child Key installed: nominal peak current 19 A (50 J nominal into 50 ohm load)
Protocol	Device follows preconfigured settings; defibrillation and CPR protocol can be customized using HeartStart Event Review Pro software

User interface

Instructions	Detailed voice prompts and visual icons guide responder through use of the defibrillator
CPR guidance	Verbal instructions for adult and infant/child CPR provide instructions and audio cues for the appropriate number, rate and depth of chest compressions, as well as for each breath
Controls	Green On/Off button, blue-lit i-button, orange Shock button, optional Infant/Child Key
Indicators	Ready light, blue-lit i-button, caution light, illuminated pads, icons; Shock button lights up when shock is advised

Physical

Size	18 x 6 x 22 cm (7.1 x 2.4 x 8.8 in) H x D x W
Weight	Approximately 1.6 kg (3.5 lb) with battery and pads installed

Environmental/physical requirements

Sealing	Waterjet-proof IPX5 per IEC60529 Dust-protected IP5X per IEC60529
Temperature	Operating/Standby: 0° – 50° C (32° – 122° F) Transient operating (for 20 minutes or less, after rapid transition from 20° C [68° F]): -20 to 50° C (-4° to 122° F); under non-condensing humidity conditions
Altitude	0 to 4,572 m (0 to 15,000 ft)
Aircraft	Meets RTCA/DO-160 Section 21 (Category M – Radiated Emissions) and Section 20 (Category M – Conducted Immunity, and Category D – Radiated Immunity)
Crush	500 kg (1100 lb)
Drop	Withstands 1.22 m (4 ft) drop on any edge, corner or face of the device onto masonry surface
Vibration	Operating: meets MILSTD 810G Fig. 5146E-1, random Standby: meets MILSTD 810G Fig. 5146E-2, swept sine (helicopter)
EMI (radiated/immunity)	Meets CISPR 11 Group 1 Class B and IEC 61000-4-3

Data recording and transmission

Infrared	Wireless transmission of event data to a PC using the IrDA protocol
HeartStart Event Review Pro software	Data management software (optional) for download and review of data retrieved through defibrillator's infrared data port
Data stored	First 15 minutes of ECG and the entire incident's events and analysis decisions

Patient analysis system

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
-------------------------	---

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 last chest compression of a CPR interval, typically in 8 seconds
-------------	--

Shock-to-shock cycle time	Typically less than 20 seconds between shocks in a series
---------------------------	---

Artifact detection	Allows ECG analysis even in the presence of most pacemaker artifact and electrical noise sources; other artifacts are detected and corrective voice prompts issued
--------------------	--

Battery

Item numbers	Standard: M5070A Aviation: 989803139301 (TSO-C142, U.S. only)
--------------	---

Type	9 Volt DC, 4.2 Ah, lithium manganese dioxide, disposable long-life primary cell
------	---

Capacity	When new, a minimum of 200 shocks or 4 hours of operating time at 25° C (77° F)
----------	---

Install-by date	Battery is labeled with an install-by date of at least five years from date of manufacture
-----------------	--

Standby life	Typically, four years when stored and maintained according to directions provided in the Instructions for Use
--------------	---

SMART Pads II

Item number	989803139261
-------------	--------------

Active surface area	80 cm ² (12.4 in ²) each
---------------------	---

Cable length	121.9 cm (48 in)
--------------	------------------

Use-by date	Pads case is labeled with a use-by date of at least two years from date of manufacture
-------------	--

Infant/Child Key	Item number: 989803139311
------------------	----------------------------------

Training Pads II

Item number	989803139271
-------------	--------------

Function	Special pads place the FRx into training mode and disable its energy delivery capability; features eight real-world training scenarios
----------	--

Automated and user-activated self-tests

Daily automatic self-tests	Tests internal circuitry, waveform delivery system, pads and battery capacity
----------------------------	---

Pads integrity test	Specifically tests readiness-for-use of pads (gel moisture)
---------------------	---

Battery insertion test	Upon battery insertion, extensive automatic self-tests and user-interactive test check device readiness
------------------------	---

Status indicators	Blinking green "Ready" light indicates ready for use; audible "chirp" indicates need for maintenance
-------------------	--

Refer to the Philips HeartStart FRx AED Owner's Manual for detailed product instructions. All specifications based on 25° C (77° F) unless otherwise noted. The defibrillator and its accessories are made of latex-free materials.