

FRx Product Specifications

Model Number	861304
How Supplied	Defibrillator, battery (one, pre-installed), SMART Pads II (one set, pre-installed), Set-up/Maintenance guide with expiration date tags, Owner's Manual, Quick Reference Guide. Ready-Pack option R01: Defibrillator inside carry case, battery (one, pre-installed), SMART Pads II (one set pre-installed plus spare set in carry case), Set-up/Maintenance guide with expiration date tags, Owner's Manual, Quick Reference Guide.
Waveform	Truncated Exponential Biphasic. Waveform parameters adjusted as a function of each patient's impedance.
Therapy	Adult defibrillation peak current: 32A (150J nominal) into a 50 ohm load. Pediatric defibrillation (with optional Infant/Child Key installed): 19A (50J nominal) into a 50 ohm load.
Protocol	Protocol Device follows preconfigured settings. Defibrillation and CPR protocol can be customized using HeartStart Event Review or HeartStart Configure software.

User Interface

Instructions	Detailed voice prompts and visual icons guide responder through use of the defibrillator.
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.
Controls	Green On/Off button, blue i-button, orange Shock button, optional Infant/Child key.
Indicators	Ready light, blue i-button, caution light, illuminated pads, icons, Shock button lights up when shock is advised.

Physical Requirements

Size	2.4 x 7.1 x 8.9 inches (6 x 18 x 22 cm) H x D x W
Weight	With battery and pads case: 3.5 lbs. (1.5 kg) Without battery or pads case: 2.6 lbs. (1.2 kg)

Environmental

Sealing	Waterjet proof IPX5 per IEC60529 Dust protected IP5X per IEC60529
Temperature	Operating/Standby: 32° - 122° F (0° - 50° C)
Altitude	0 to 15,000 feet
Aircraft	Device: RTCA/DO-160D;1997
Crush	500 pounds
Vibration	Operating: meets MILSTD 810F Fig.514.5C-17, random; Standby: meets MILSTD 810F Fig.514.5C-18, swept sine.
EMI (Radiated/Immunity)	CISPR II Group I Class B, IEC 61000-4-3, and IEC 61000-4-8

Patient Analysis

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.
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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 Cycle Time	Typically less than 20 seconds between shocks in a series.
Artifact Detection	Advanced signal processing allows accurate 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 Number (s)	Standard:M5070A Aviation:989803139301 (TSO C-142-U.S. only)
Type	9 Volt DC, 4.2 Ah,lithium manganese dioxide, disposable long-life primary cell.
Capacity	Minimum 200 shocks or 4 hours of operating time (EN 60601-2-4:2003).
Install-by Date	Battery is labeled with an install-by date of at least five years from date of manufacture.
Standby Life	Four years typical when battery is installed by the install by date.(Will power the AED in standby state within the specified standby temperature range, assuming one battery insertion test and no uses.

SMART PADS II

Item Number	989803139261
How Supplied	Disposable pads case containing adhesive multifunction defibrillator pads.HeartStart plug style connector clicks into device for preconnected pads solution.
Active Surface Area	12.4 in ² (80 cm ²) each
Cable Length	48 inches (121.9 cm)
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
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Training Pads II

Item Number	989803139271
Function	Special pads place HeartStart FRx into training mode and disable its energy delivery capability. Features 8 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 Indicator	Blinking green "Ready" light indicates ready for use.
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Data Recording and Transmission

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.