



Each year sudden cardiac arrest strikes approximately 30,000<sup>1</sup> people in Australia & New Zealand. For every minute defibrillation is delayed the chance of survival decreases by about 10%. Defibrillation is part of the Australian and New Zealand Resuscitation Council Guidelines.

The HeartStart FRx is an easy to use, rugged and reliable AED for those who get there first. **With its International Protection (IP) rating of IP 55 it's the perfect AED for industrial sites, use near water and extreme environments.**



- Specifically designed for its purpose.
- Easy to Use.
- Always Ready with Daily Self Testing including: system electronics, battery, and pads readiness.



- CPR assistance for both Adults and Children with clear Australasian Voice Prompts.
- Quick Shock Capability.
- Long Life Battery that is easy to replace (200 shocks, 4 year standby and 5 year shelf life).



- IP55 Rating which protects the unit from dust and jetting water.
- Preconnected SMART pads for adults and children\*.

**Quick Shock the HeartStart Advantage.**

Quick Shock is a unique feature offered only by Laerdal's HeartStart Defibrillator Range. The HeartStart Defibrillator is able to deliver a shock 10 seconds or less after the end of a CPR pause.

**No other automated external defibrillator is able to do this as quickly.**

With more than 600,000 units deployed worldwide, more workplaces, organisations and communities place their trust in Philips/Laerdal HeartStart AEDs than any other brand when establishing early defibrillation programs. In Australia and New Zealand this includes Ambulance services, Airlines (QANTAS & Air New Zealand), Life Saving organisations (Royal Life Saving & Surf Life Saving Australia), major airports, schools and corporations.

**Easy To Use: Simple as 1, 2, 3**



1-Turn ON, follow voice prompts



2-Apply Pads



3-Press to Shock

**Selection of Accessories**

With our range of defibrillators we also have a selection of accessories available including defibrillator trainers, carry cases, wall brackets and user DVD's. For more technical information on our defibrillators and details on our accessories please visit [www.heartstart.com.au](http://www.heartstart.com.au) or [www.heartstart.co.nz](http://www.heartstart.co.nz)



HeartStart FRx Trainer (Trainers are available for all HeartStart Models, except MRx).  
861307



Infant/Child Key to suit HeartStart FRx (Infant/Child pads also available for HeartStart First Aid and FR2+).  
9898 031 39311



Carry Case to suit HeartStart FRx (Every HeartStart FRx sold comes with this case as part of the package).  
941360



Pelican Case (Waterproof) to suit HeartStart First Aid and FRx.  
YC



Adult Training pads to suit HeartStart FRx.  
9898 031 39271



HeartStart Wall Box with Alarm. Battery operated alarm with sound and light when door is opened.  
941242



Basic AED Cabinet. Battery operated alarm with sound when door is opened.  
9898 031 36531



HeartStart Wall Bracket to suit HeartStart First Aid, FRx and FR2+.  
M3857A

### Heartstart FRx Technical Data Sheet

Indicators	Ready light, blue i-button, caution light, illuminated pads icons, shock button lights up when shock is advised.
<b>Physical</b>	
Size	6 x 18 x 22 cm (2.4 x 7.1 x 8.9 inches) H x D x W
Weight	With battery and pads case 1.5Kg Without battery or pads case 1.2Kg
<b>Environmental</b>	
Sealing	Waterjet proof IPX5 per IEC60529 Dust protected IP5X per IEC60529
Temperature	Operating/Standby: 0°-50°C (32° -122° F)
Altitude	0-5.000m(0-15.000 feet)
Aircraft	Device : RTCA/DO-160D; 1997
Crush	250Kg (500 pounds)
Vibration	Operation: meets MILSTD 810F Fig.514.5C-17, random Standby: meets MILSTD 810F Fig.514.5C-18, swept sine EMI(Radiated/Immunity) CISPR II Group Class B, IEC 61000-4-3, and IEC61000-4-8
<b>Patient analysis system</b>	
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 CPR pause, 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
<b>Battery</b>	
Item Number(s)	Standard : M5070A Aviation: 989803139301 (TSO C-142-US. Only)
Type	9Volt DC, 4.2Ah, lithium manganese dioxide, disposable long-life primary cell
Capacity	Minimum 200 shocks or 4 hours of operating time
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.
<b>SMART PadsII</b>	
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	80cm <sup>2</sup> (2,4 2inches)
Cable length	122 cm(48inches)
Use.By Date	Pads case is labeled with a use-by date of at least two years from date of manufacture
<b>Infant/Child Key</b>	
Item Number	989803139311
<b>Training Pads II</b>	
Item number	989803139271
Function	Special pads place Heartstart FRx into training mode and disable its energy delivery capability. Features 8 real-world training scenarios
<b>Automated and user-activated self-tests</b>	
Dayly 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
<b>Data recording and transmission</b>	
Infrared	Wireless transmission of event data to PC or palmOne™ PDA using the IrDa protocol
Heartstart Event Review	Data management software(optional) for download and review of data retrieved through defibrillators infrared port
Data Stored	Store first 15 minutes of ECG and the entire incident's events and analysis decisions.

*\* Refer to Heartstart FRx Defibrillators User Guide for detailed product instructions. All specifications are based on 25C unless otherwise noted. The defibrillator and its accessories are made of latex-free material.*