

Making lifesaving faster, easier, better

Philips HeartStart FR3 Defibrillator for professional responders



Making lifesaving faster,

A sudden cardiac arrest (SCA) response is a stress-test for a professional medical response team because time matters. You need your equipment to be rugged, ready to use, and to support you every step of the way.

As a global leader in defibrillation technology, Philips helped chart the course for widespread use of automated external defibrillators (AEDs) among professional responders starting with the innovative ForeRunner and HeartStart FR2 AEDs. Today, Philips continues to provide AED solutions specifically designed for the full spectrum of responders from lay people to clinicians. Our best professional-grade AED yet, the HeartStart FR3 is designed to make lifesaving faster, easier, and better.

- Faster helping you do your job faster as it significantly reduces deployment. It eliminates steps to help you start the right therapy – CPR or defibrillation
- Easier helping make your job easier with the smallest and lightest professional-grade AED among leading global manufacturers.^{*} It is designed to be rugged, reliable, and ready to use
- **Better** helping you improve your response by supporting a culture of continuous improvement, including optimizing training and fine-tuning SCA response



The HeartStart FR3 is the smallest and lightest professional-grade AED among the leading global manufacturers.



easier, better

Faster: Helping you provide therapy faster

When responding to a sudden cardiac arrest, you make every effort to reach the victim quickly. But the clock keeps ticking until your patient actually receives therapy. The HeartStart FR3 solution significantly reduces deployment time by eliminating steps to help you start delivery of the right therapy – CPR or defibrillation – on your patient faster.

carry case so you can focus on pad placement from the start • Peel & place SMART Pads III. There's no foil pouch

• Automatically powers on** by opening the FR3

- to open when the pads are pre-connected • Receive patient-specific guidance with Philips SMART CPR for the most appropriate initial therapy – CPR or defibrillation – even for shockable rhythms
- Minimize CPR interruptions and speed shock delivery with Philips Quick Shock

The HeartStart FR3 solution helps you respond to a pediatric cardiac arrest faster

- No need to change pads. Just use the same SMART Pads III for adults and children
- Insert the Infant/Child Key to automatically decrease the defibrillation therapy and implement the configured infant/child CPR protocols

Minimize CPR interruptions with Quick Shock

The 2010 American Heart Association Guidelines for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care Science and the European Resuscitation Council Guidelines for Resuscitation 2010 recommend that delays and interruptions to chest compressions be minimized throughout the entire resuscitation.^{1,2} **Philips Quick Shock** technology reduces the time between hands-off and shock delivery to minimize CPR interruptions.



Philips Quick Shock technology reduces the time between hands-off and shock delivery to minimize CPR interruptions.

Easier: Helping make your job easier



4

Easier to carry with your other equipment

- Smallest and lightest (3.5lbs, 1.6kg) professional-grade AED among leading global manufacturers
- A variety of carry case options to fit your needs

Confidence that your AED will stand up to your demanding work environment

- Holds IP55 rating for protection against dust and jetting water
- Tested to US Military standards

Confidence that your AED will be ready when needed

- Battery typically delivers 300 shocks or, if configured, 12 hours of monitoring
- Performs daily, weekly, and monthly automated self-tests, including pads integrity, with visual and attention-getting audible alerts
- Green ready light flashes to confirm the FR3 is ready for use
- Philips AEDs have accumulated over 30 billion service hours*

Confidence that you are delivering high-quality therapy to your patient

- Philips SMART biphasic waveform is evidence-based therapy that achieves consistently high efficacy for terminating ventricular fibrillation³⁻¹⁶
- CPR Metronome keeps the beat for consistent chest compressions
- Quick Shock reduces the time between hands-off and shock delivery to minimize CPR interruptions
- SMART CPR provides patient-specific treatment advice for the right initial therapy CPR or defibrillation even for shockable rhythms

Easier for responders in bilingual work environments to use the AED

• Bilingual configurable so that voice and text prompts can be clearly understood

Easier to use in a noisy environment

 \bullet Bright, high-resolution color LCD that can show text or text with ECG ***

Easier to simulate real-world conditions when training

- Deliver more realistic training with the actual FR3 device, using a rechargeable training battery and training pads
- The AED Trainer 3 provides a cost-effective training option without taking FR3 AEDs out of service

Easier to standardize on one pad set for your program

- SMART Pads III are compatible for use with the HeartStart FR2-Series
- SMART Pads III work with Philips monitor/defibrillators, including the HeartStart MRx, for easy hand-off

Easier to configure and upgrade your AED to meet your needs

- Protocols can be configured with Bluetooth® or FR3 data card based on medical direction and defibrillation program requirements
- Extensively upgradeable to take advantage of Philips advancements now and in the future







Better: Helping you improve emergency response

The HeartStart FR3 and Philips Data Management Solutions are designed to help support **a culture of continuous improvement and excellence** among emergency response organizations.

Philips tools help make it simple for emergency responders in the field to download and forward data to where it needs to be so they can focus on providing care. They can even forward a PDF of the presenting ECG to the patient's cardiologist to help support post-event care.^{***} Responders can keep devices in service by downloading events via Bluetooth[®] or an FR3 data card.

Having data readily available can help facilitate retrospective review by medical directors and program managers so timely and consistent feedback can be provided to responders while the event is still fresh. Medical directors can also use the data to refine their cardiac arrest response protocols.

Philips Data Management Solutions

HeartStart Event Review (basic) Review, annotate, print, and store AED cases in a database for responder debriefing.

HeartStart Event Review Pro (full featured)

Provide more in-depth assessment of responder intervention and patient response to evaluate individual and system-wide response performance.

HeartStart Data Messenger

Automatically route events from your responders' computers based on your desired workflow. Responders don't have to manipulate software to move data. So event data may arrive at its destination more promptly and consistently.

Philips Data Software Development Kit

Append a defibrillator patient event to any electronic patient care reporting (ePCR) enabled with the Philips Data Software Development Kit.

Patient data flows according to your desired workflow using your existing infrastructure

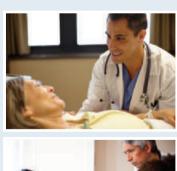


Provide timely feedback

Help support post-event care

Easily send AED patient case to headquarters, medical director

Store, access, review





HeartStart FR3 Defibrillator specifications

| Defibrillator | |
|--|--|
| Models | 861388 text display |
| | 861389 ECG and text display |
| | Supplied with AED, primary battery (1), SMART |
| | Pads III (1 set), printed instructions (Setup |
| | Guide) and CD-Rom (Administrative Reference) |
| Waveform | SMART Biphasic Truncated Exponential waveform |
| | parameters adjust as a function of patient |
| | impedance. Adult nominal peak current 32A (150) |
| | into a 50 ohm load): pediatric nominal peak current |
| | 19A (50J into a 50 ohm load) using optional Infant/ |
| | Child Key |
| Shock delivery | Via defibrillator pads placed in the anterior-anterior |
| , | (Lead II) position for adults; anterior-posterior |
| | position for infants and children under 55 lbs (25 kg) |
| | or 8 years old |
| Controls | On/Off button, shock button, option buttons. |
| | Auto-On feature, when used with the optional |
| | FR3 carry case, enables FR3 to power up when |
| | case lid is opened |
| Indicators | High-resolution color LCD, beeper, voice |
| | prompts, tones and chirps, audio speaker, |
| | connector socket, ready light, shock button |
| Advanced mode | Configurable using optional HeartStart |
| | Configure software |
| | |
| ECG display | |
| ECG display Screen | LCD color display, 320 x 240 pixels. |
| | LCD color display, 320 x 240 pixels. 2.8" x 2.1" (7.2 cm x 5.4 cm) |
| | |
| Screen | 2.8″ × 2.1″ (7.2 cm × 5.4 cm) |
| Screen Bandwidth Monitored lead | 2.8″ x 2.1″ (7.2 cm x 5.4 cm) 1 Hz to 30 Hz (-3dB), nominal (non-diagnostic) |
| Screen Bandwidth | 2.8" x 2.1" (7.2 cm x 5.4 cm) 1 Hz to 30 Hz (-3dB), nominal (non-diagnostic) Lead II using anterior-anterior adult pads placement |
| Screen Bandwidth Monitored lead | 2.8" x 2.1" (7.2 cm x 5.4 cm) 1 Hz to 30 Hz (-3dB), nominal (non-diagnostic) Lead II using anterior-anterior adult pads placement 2.7" high x 5.3" wide x 8.7" deep |
| Screen Bandwidth Monitored lead Physical Size | 2.8" x 2.1" (7.2 cm x 5.4 cm) 1 Hz to 30 Hz (-3dB), nominal (non-diagnostic) Lead II using anterior-anterior adult pads placement 2.7" high x 5.3" wide x 8.7" deep (6.9 cm x 13.5 cm x 22.1 cm) |
| Screen Bandwidth Monitored lead Physical | 2.8" x 2.1" (7.2 cm x 5.4 cm) 1 Hz to 30 Hz (-3dB), nominal (non-diagnostic) Lead II using anterior-anterior adult pads placement 2.7" high x 5.3" wide x 8.7" deep (6.9 cm x 13.5 cm x 22.1 cm) 3 lbs 8 oz (1.6 kg) with FR3 primary battery |
| Screen Bandwidth Monitored lead Physical Size Weight | 2.8" x 2.1" (7.2 cm x 5.4 cm) 1 Hz to 30 Hz (-3dB), nominal (non-diagnostic) Lead II using anterior-anterior adult pads placement 2.7" high x 5.3" wide x 8.7" deep (6.9 cm x 13.5 cm x 22.1 cm) 3 lbs 8 oz (1.6 kg) with FR3 primary battery installed |
| Screen Bandwidth Monitored lead Physical Size Weight Environmental/ | 2.8" x 2.1" (7.2 cm x 5.4 cm) 1 Hz to 30 Hz (-3dB), nominal (non-diagnostic) Lead II using anterior-anterior adult pads placement 2.7" high x 5.3" wide x 8.7" deep (6.9 cm x 13.5 cm x 22.1 cm) 3 lbs 8 oz (1.6 kg) with FR3 primary battery installed physical requirements |
| Screen Bandwidth Monitored lead Physical Size Weight Environmental/ Sealing | 2.8" x 2.1" (7.2 cm x 5.4 cm) 1 Hz to 30 Hz (-3dB), nominal (non-diagnostic) Lead II using anterior-anterior adult pads placement 2.7" high x 5.3" wide x 8.7" deep (6.9 cm x 13.5 cm x 22.1 cm) 3 lbs 8 oz (1.6 kg) with FR3 primary battery installed physical requirements Meets IEC529 class IP55 with battery installed |
| Screen Bandwidth Monitored lead Physical Size Weight Environmental/ Sealing Temperature | 2.8" x 2.1" (7.2 cm x 5.4 cm) 1 Hz to 30 Hz (-3dB), nominal (non-diagnostic) Lead II using anterior-anterior adult pads placement 2.7" high x 5.3" wide x 8.7" deep (6.9 cm x 13.5 cm x 22.1 cm) 3 lbs 8 oz (1.6 kg) with FR3 primary battery installed physical requirements Meets IEC529 class IP55 with battery installed Operating/standby: 32°-122°F (0°-50°C) |
| Screen Bandwidth Monitored lead Physical Size Weight Environmental/ Sealing | 2.8" x 2.1" (7.2 cm x 5.4 cm) 1 Hz to 30 Hz (-3dB), nominal (non-diagnostic) Lead II using anterior-anterior adult pads placement 2.7" high x 5.3" wide x 8.7" deep (6.9 cm x 13.5 cm x 22.1 cm) 3 lbs 8 oz (1.6 kg) with FR3 primary battery installed physical requirements Meets IEC529 class IP55 with battery installed Operating/standby: 32°-122°F (0°-50°C) Meets IEC 60601-1:5.3 (1013 to 572 mbar (hPa), |
| Screen Bandwidth Monitored lead Physical Size Weight Environmental/ Sealing Temperature | 2.8" x 2.1" (7.2 cm x 5.4 cm) 1 Hz to 30 Hz (-3dB), nominal (non-diagnostic) Lead II using anterior-anterior adult pads placement 2.7" high x 5.3" wide x 8.7" deep (6.9 cm x 13.5 cm x 22.1 cm) 3 lbs 8 oz (1.6 kg) with FR3 primary battery installed physical requirements Meets IEC529 class IP55 with battery installed Operating/standby: 32°-122°F (0°-50°C) Meets IEC 60601-1:5.3 (1013 to 572 mbar (hPa), equivalent to air pressure from 0 to 15,000 feet; |
| Screen Bandwidth Monitored lead Physical Size Weight Environmental/ Sealing Temperature Altitude | 2.8" x 2.1" (7.2 cm x 5.4 cm) 1 Hz to 30 Hz (-3dB), nominal (non-diagnostic) Lead II using anterior-anterior adult pads placement 2.7" high x 5.3" wide x 8.7" deep (6.9 cm x 13.5 cm x 22.1 cm) 3 lbs 8 oz (1.6 kg) with FR3 primary battery installed physical requirements Meets IEC529 class IP55 with battery installed Operating/standby: 32°-122°F (0°-50°C) Meets IEC 60601-1:5.3 (1013 to 572 mbar (hPa), equivalent to air pressure from 0 to 15,000 feet; 0 to 4,572 meters) |
| Screen Bandwidth Monitored lead Physical Size Weight Environmental/ Sealing Temperature Altitude Shock/drop | 2.8" x 2.1" (7.2 cm x 5.4 cm) 1 Hz to 30 Hz (-3dB), nominal (non-diagnostic) Lead II using anterior-anterior adult pads placement 2.7" high x 5.3" wide x 8.7" deep (6.9 cm x 13.5 cm x 22.1 cm) 3 lbs 8 oz (1.6 kg) with FR3 primary battery installed Physical requirements Meets IEC529 class IP55 with battery installed Operating/standby: 32°-122°F (0°-50°C) Meets IEC 60601-1:5.3 (1013 to 572 mbar (hPa), equivalent to air pressure from 0 to 15,000 feet; 0 to 4,572 meters) Meets MIL-STD-810F 516.5, Procedure IV |
| Screen Bandwidth Monitored lead Physical Size Weight Environmental/ Sealing Temperature Altitude | 2.8" x 2.1" (7.2 cm x 5.4 cm) 1 Hz to 30 Hz (-3dB), nominal (non-diagnostic) Lead II using anterior-anterior adult pads placement 2.7" high x 5.3" wide x 8.7" deep (6.9 cm x 13.5 cm x 22.1 cm) 3 lbs 8 oz (1.6 kg) with FR3 primary battery installed physical requirements Meets IEC529 class IP55 with battery installed Operating/standby: 32°-122°F (0°-50°C) Meets IEC 60601-1:5.3 (1013 to 572 mbar (hPa), equivalent to air pressure from 0 to 15,000 feet; 0 to 4,572 meters) Meets MIL-STD-810F 516.5, Procedure IV (after a one-meter drop to any edge, corner, or |
| Screen Bandwidth Monitored lead Physical Size Weight Environmental/ Sealing Temperature Altitude Shock/drop Abuse tolerance | 2.8" x 2.1" (7.2 cm x 5.4 cm) 1 Hz to 30 Hz (-3dB), nominal (non-diagnostic) Lead II using anterior-anterior adult pads placement 2.7" high x 5.3" wide x 8.7" deep (6.9 cm x 13.5 cm x 22.1 cm) 3 lbs 8 oz (1.6 kg) with FR3 primary battery installed physical requirements Meets IEC529 class IP55 with battery installed Operating/standby: 32°-122°F (0°-50°C) Meets IEC 60601-1:5.3 (1013 to 572 mbar (hPa), equivalent to air pressure from 0 to 15,000 feet; 0 to 4,572 meters) Meets MIL-STD-810F 516.5, Procedure IV (after a one-meter drop to any edge, corner, or surface in standby mode) |
| Screen Bandwidth Monitored lead Physical Size Weight Environmental/ Sealing Temperature Altitude Shock/drop Abuse tolerance Vibration | 2.8" x 2.1" (7.2 cm x 5.4 cm) 1 Hz to 30 Hz (-3dB), nominal (non-diagnostic) Lead II using anterior-anterior adult pads placement 2.7" high x 5.3" wide x 8.7" deep (6.9 cm x 13.5 cm x 22.1 cm) 3 lbs 8 oz (1.6 kg) with FR3 primary battery installed physical requirements Meets IEC529 class IP55 with battery installed Operating/standby: 32° –122°F (0° – 50°C) Meets IEC 60601-1:5.3 (1013 to 572 mbar (hPa), equivalent to air pressure from 0 to 15,000 feet; 0 to 4,572 meters) Meets MIL-STD-810F 516.5, Procedure IV (after a one-meter drop to any edge, corner, or surface in standby mode) Meets MIL-STD-810F 514.5 C-17 |
| Screen Bandwidth Monitored lead Physical Size Weight Environmental/ Sealing Temperature Altitude Shock/drop Abuse tolerance Vibration Bluetooth 2.0 C | 2.8" x 2.1" (7.2 cm x 5.4 cm) 1 Hz to 30 Hz (-3dB), nominal (non-diagnostic) Lead II using anterior-anterior adult pads placement 2.7" high x 5.3" wide x 8.7" deep (6.9 cm x 13.5 cm x 22.1 cm) 3 lbs 8 oz (1.6 kg) with FR3 primary battery installed physical requirements Meets IEC529 class IP55 with battery installed Operating/standby: 32°-122°F (0°-50°C) Meets IEC 60601-1:5.3 (1013 to 572 mbar (hPa), equivalent to air pressure from 0 to 15,000 feet; 0 to 4,572 meters) Meets MIL-STD-810F 516.5, Procedure IV (after a one-meter drop to any edge, corner, or surface in standby mode) Meets MIL-STD-810F 514.5 C-17 Class II Wireless Transceiver Module |
| Screen Bandwidth Monitored lead Physical Size Weight Environmental/ Sealing Temperature Altitude Shock/drop Abuse tolerance Vibration | 2.8" x 2.1" (7.2 cm x 5.4 cm) 1 Hz to 30 Hz (-3dB), nominal (non-diagnostic) Lead II using anterior-anterior adult pads placement 2.7" high x 5.3" wide x 8.7" deep (6.9 cm x 13.5 cm x 22.1 cm) 3 lbs 8 oz (1.6 kg) with FR3 primary battery installed physical requirements Meets IEC529 class IP55 with battery installed Operating/standby: 32° –122°F (0° – 50°C) Meets IEC 60601-1:5.3 (1013 to 572 mbar (hPa), equivalent to air pressure from 0 to 15,000 feet; 0 to 4,572 meters) Meets MIL-STD-810F 516.5, Procedure IV (after a one-meter drop to any edge, corner, or surface in standby mode) Meets MIL-STD-810F 514.5 C-17 |

| Patient analysis system | | |
|---|---|--|
| ECG analysis | Evaluates impedance of defibrillator pads for proper | |
| | contact with patient skin, evaluates the ECG | |
| | rhythm and signal quality to determine if a shock is | |
| | appropriate; also detects artifact and pacemaker | |
| SMART CPR | Evaluates key characteristics of the presenting VF | |
| | and determines the initial therapy: shock first, or | |
| | CPR first quickly followed by a shock | |
| Sensitivity/ | Meets AAMI DF80 requirements and AHA | |
| specificity | recommendations for adult defibrillation | |
| Quick Shock | Typically arms in <8 seconds from the end of the | |
| | "Stop CPR" prompt | |
| FR3 primary b | | |
| Туре | 12 VDC, 4.7 Ah, lithium manganese dioxide | |
| .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | Long-life primary cells | |
| Capacity | Typically 300 shocks or 12 hours of operating time at | |
| Capacity | 77° F (25° C) when configured for monitoring after | |
| | No Shock Advised (NSA) | |
| | 7.5 hours of operating time at 77° F (25° C) when | |
| | | |
| Seen dhy life | configured for CPR after NSA | |
| Standby life | 3 years minimum when stored under standby | |
| Chalf life | environmental conditions (battery installed) | |
| Shelf life | 5 years | |
| SMART Pads III | | |
| Application | Disposable, multifunction defibrillation pads for adult | |
| | or infant/child patients. Time-saving peel and place | |
| | pads can be removed from packaging and stored in | |
| | the FR3 carry case. Pads can be preconnected to FR3, | |
| | which enables testing during FR3's routine self-test. | |
| Infant/Child Key (optional) | | |
| Function | Selects therapy for infants or children under 55 | |
| | lbs (25 kg) or 8 years old | |
| FR3 data card | | |
| Function | Stores a minimum of 8 hours of ECG, event, and, | |
| | if configured, voice recording. Can also be used | |
| | for configuring FR3 | |
| Automated and user-activated self-tests | | |
| Automatic self- | Tests internal circuitry, waveform delivery | |
| tests | system, ECG acquisition, temperature, status (or | |
| | readiness) of attached accessories (SMART Pads | |
| | III and FR3 data card) and battery | |
| Automated self- | Daily, weekly, monthly, power on, and runtime | |
| test frequency | during all modes of operation | |
| User initiated | Automatic self-tests plus tone, display, and button | |
| tests | performance | |
| FR3 training battery and training pads (optional) | | |
| Function | Places FR3 into a scenario-based training mode | |
| | and simulates shock therapy | |
| Туре | 10.8 Volt, 4.5 Ah Li-ion battery | |
| / | | |

Philips Healthcare is part of Royal Philips Electronics

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- ^k Data on file with Philips Healthcare.
- If you do not use the Philips HeartStart FR3 carry case with the auto-on feature, press the green On/Off button to turn on the FR3.
- *** ECG is intended only for basic rhythm identifications. It is not intended for diagnostic and ST segment interpretation.

Not all items are available worldwide. Check with Philips for availability of optional software and accessories.

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The FR3 requires a prescription for use in

the United States, and must be used under medical direction.

Please visit www.philips.com/fr3



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