

ZOLL AED Plus vs. Philips FRx Comparison

Full-Rescue Support	AED Plus	HeartStart FRx
Total steps of Full-Rescue supported*	8	3
Percentage of Full-Rescue performed by untrained rescuers in test*	63%	48%
Increase in CPR compression depth*	277% increase	39% increase
CPR support	Adaptive metronome for 100 bpm. Instantaneous feedback for rate and compression depth. Voice & text prompts for "Push Harder" and "Good Compressions."	Timed minute of silence (default), or fixed metronome for 100 bpm with voice prompts for breathing at 15-2 (press "i" button).
Communication with rescuer	Voice prompts, text & circle of picture graphics	Voice prompts & 1 picture graphic
Support system for airway maintenance	Yes (PASS lid)	No
Technology/Design Comparison		
Water & dust ingress protection (IP)	IP-55 **	IP-55 **
Energy protocol	Adult: 120J – 150J – 200J Pediatric: 50J – 70J – 85J	Adult: 150J – 150J – 150J Pediatric: 50J – 50J – 50J
Electrode pads life	4 years	2 years
Electrode pad storage design	Sealed foil pouch remains sealed until rescue.	Unsealed plastic case opens easily and must be replaced.
Battery technology	10 123A Lithium Manganese batteries available at retail.	9 123A batteries encased in a pack available only from Philips.
Battery life (standby mode – no emergency)	5 years	4 years
Pad Expiration Inspection	Immediately visible	Open carry case required
Post-purchase Cost of Ownership		
Battery replacement interval (with daily self-test) / Replacement cost	5 years / \$75	4 years / \$135
Pad replacement interval / Replacement cost	4 years / \$149	2 years / \$49
Equipment required for 5 year period	1 CPR-D padz	1 battery pack 2 sets of electrode pads
Cost of ownership for 5 year period	\$149	\$233
Pediatric Capability		
Levels of energy sent to pads	Adult: 120J – 150J – 200J Pediatric: 50J – 70J – 85J	Adult: 150J – 150J – 150J Pediatric: 150J – 150J – 150J
Pediatric rescue technology	Pediatric Pad indicates pediatric rescue and AED adapts protocol and energy dosage.	Infant-Child Key indicates pediatric rescue and AED adapts protocol and energy dosage.
Pediatric rescue prompts match pad labeling	Yes	No
Rescue-type (adult/pediatric) recognized & announced to prevent errors	Yes (power up and mid-rescue change)	Yes (mid-rescue change only)

* S Miller, et. al. "Lay Rescuer Adherence to the Chain of Survival: A Comparison of Four Automated External Defibrillators." *Pre-hospital Emergency Care*. 2004; 8:91. NOTE: Difference shown is statistically significant (P<0.05). OnSite used in testing has identical prompts/functionality as FRx.

** Protected from dust interfering with satisfactory operation. Protected from water jets against the enclosure from any direction.