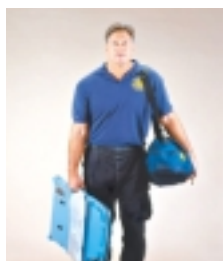


Transform CPR Performance



AutoPulse™ Resuscitation System 100

- > Automated chest compressions during CPR
- > Compact and portable
- > Deploys in seconds
- > Easy to use
- > Consistent depth and rate of compressions
- > Reduces rescuer fatigue
- > Reduces interruptions during code and transport



For years, a variety of attempts have been made to overcome the limitations of manual CPR. Now Revivant has developed a practical solution that may transform the way CPR is performed by medical professionals. The AutoPulse™ Resuscitation System is the result of intensive scientific research on the biomechanics and circulation of chest compression, combined with recent technological advances.

Maintain Circulation with the AutoPulse System

Circulation is an essential element and critical link in the chain of survival. The goal of CPR therapy is to restore adequate blood flow to the brain and as importantly, to the heart.¹ And providing coronary circulation prior to defibrillation may improve survival.²

Until now, manual compressions during CPR have been the only viable solution for use in the

field. However, CPR provides only 10–20% of normal myocardial blood flow!¹ Plus, studies have shown that fatigue quickly sets in after one minute, reducing the quality of the rescuer's compressions.^{3,4} Further, perfusion to the heart is profoundly decreased whenever compressions are interrupted.¹

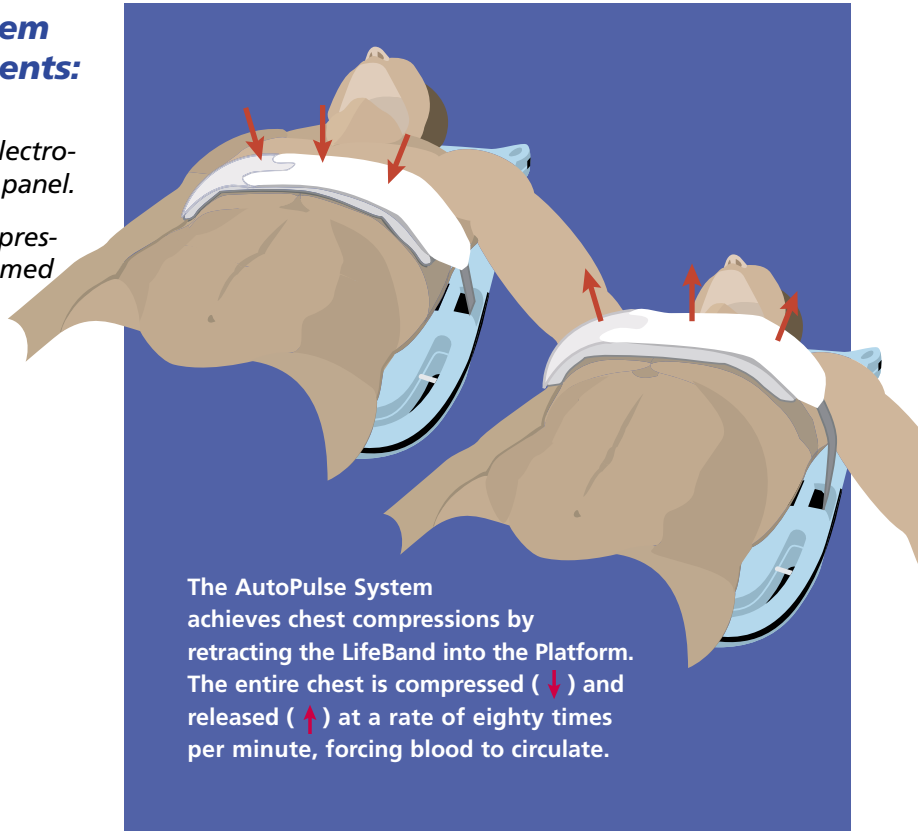
The AutoPulse Resuscitation System offers a more efficient method of generating chest compressions during CPR.

The AutoPulse Resuscitation System consists of the following components:

- > The transportable Platform containing a microprocessor-based control system, an electro-mechanical drive system and a user interface panel.
- > The single-patient-use LifeBand™ chest compression assembly that applies the pre-programmed compression to the patient's chest.
- > The rechargeable battery pack and state-of-the-art battery charger (not shown).

And provides these benefits:

- > Rapid, convenient deployment in the field
- > Maintains compressions and circulation during the code
- > Frees personnel to attend to other tasks
- > Automatically adjusts to each patient
- > Practical for rescuers of all skill levels



AutoPulse™ Resuscitation System 100

specifications

LIFEBAND CHEST

COMPRESSION ASSEMBLY

The latex-free LifeBand is for single-patient use only. It is designed for adults with weight up to 300 lbs with chest circumference of 29.9 to 51.2 inches (76 to 130 cm) and chest width of 9.8 to 15 inches (25 to 38 cm).

OPERATING PARAMETERS

Chest Displacement: Equal to 20% reduction in anterior-posterior chest depth

Rate: 80 ± 5 compressions per minute

Physiological Duty Cycle: Fixed at 50 ± 5% compression to decompression ratio

Compression to Ventilation Ratio: Fixed at 15:2. Continuous compression mode available for software version 3.0 or later

PHYSICAL

Dimensions: 3.3 in (8.4 cm) H X 18.2 in (46.2 cm) W X 32.5 in (82.5 cm) L

Weight (excluding battery): 22 pounds

Display type: dot matrix LCD, actively backlit, adjustable contrast

ENVIRONMENTAL

Operating Temperature: +32° F to +104° F (0° C to 40° C)

Storage Temperature: -4° F to +149° F (-20° C to 65° C) without battery

Relative Humidity: 5% to 95%, non-condensing

Atmospheric Pressure: 760 to 428 mm Hg (0 to 15,000 ft above sea level)

Water Resistance: IP22 as defined by IEC 60529

BATTERIES

Type: Rechargeable Nickel Metal Hydride, 32.4 V, 3.2 amp-hours

Capacity: Minimum of 30 minutes, under nominal conditions.

Maximum battery charge time: 4 1/4 hours

Weight: 5.1 lb (2.25 kg)

Operating temperature: 32° F to 113° F (0° C to 45° C)

Storage temperature: -4° F to 95° F (-20° C to 35° C)

Charging temperature: 41° F to 95° F (5° C to 35° C)

REFERENCES

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3. Hightower D. Decay in quality of closed-chest compressions over time. *Annals of Emergency Medicine*. 1995;26(3):300-303.
4. Ochoa FJ, et al. The effect of rescuer fatigue on the quality of chest compressions. *Resuscitation*. 1998;37:149-152.

Specifications are subject to change without notice.

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