

THUMPER®

1007CC_{MII}

Continuous Compression Cardiopulmonary Resuscitator System



The World's Leader in Effective CPR!

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The Continuous Compression Thumper® CPR System

In compliance with the 2010 AHA Guidelines:

- **Chest Compression Rate** — the Thumper® provides compressions at a rate of 100 per minute for effective cardiopulmonary resuscitation.
- **Adult Compression Depth**—the Thumper® maintains a compression depth of at least 2 inches on any size patient.
- **Emphasis on Chest Compressions**—the Thumper® provides continuous Hands Free compressions.



In both clinical and research settings, the Thumper® has proven to be the standard in providing the most effective CPR possible.

The Thumper® is proven and reliable technology—over 3,600 in use today. The Thumper® has been an adjunct to many ambulance and fire departments for over 45 years. The Thumper® can be rapidly set up with virtually no loss of CPR in transition from manual to Thumper® CPR. Easy to operate and will accommodate a wide range of patients, from small adults to bariatric patients over 300 pounds. The Thumper® is very affordable and can be used with no expensive disposables.

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Only Two Controls Needed

1. RUN/STOP:

- Run: With the control in this position, The Thumper® is operational and delivers 100 continuous compressions per minute.
- Stop: With the control in this position, chest compressions stop.

2. COMPRESSION DEPTH:

This control adjusts the depth of compression to correspond to the measured A-P (Anterior-Posterior) diameter shown on the back of the column.



THUMPER® CPR VS. MANUAL CPR

The comparison of Thumper® CPR vs. typical manual CPR illustrates some of the reasons why the Thumper® produces the highest level of cardiac support available.

Other advantages listed below show why Thumper® provides the most effective CPR.

Compression	Manual CPR	Thumper® CPR
<i>Duration - 50% systole</i>	Very difficult to maintain 50% systole because of need to hold force on chest	Thumper® operates consistently at programmed Systole/Diastole ratio (factory preset at 50:50) regardless of operator size or physical condition
<i>Magnitude of Sternal Deflection</i>	Difficult to measure and control	Consistent and clearly delivered as measured
<i>Direction of Force</i>	May vary from perpendicular	Consistently perpendicular
<i>Rhythm and Amount</i>	Variable	Constant
<i>Patient Size</i>	Difficult if not impossible to effectively compress an obese patient	3.15" maximum compression stroke allows resuscitation of obese patients
Trauma	Cracked ribs and vomitus aspiration common	Controlled chest compressions reduce traumatic risks
Monitoring and Defibrillation	Interruptions necessary for ECG Monitoring and defibrillation	Thumper® need not be removed for monitoring and defibrillation
Operators		
<i>Number Required</i>	Usually two	Usually one
<i>Fatigue</i>	Unavoidable	Nonexistent
<i>Safety</i>	Operator in ambulance is not restrained and is unprotected	Possible for operator to sit with safety belt fastened

The Thumper®

is a life support device used in many EMS and hospital applications.

Pre-hospital applications include:

- *Ambulances
- *Air Medivac
- *EMT Rescue
- *Fire Rescue

In the hospital, the Thumper can be found in:

- *Emergency Departments
- *Coronary and Intensive Care Units
- *Cardiac Catheterization Labs
- *Organ Transplant facilities

THUMPER® MODEL 1007CC_{MII}

SPECIFICATIONS



SIZE:

Assembled:

- Width: 9 in. (22.86 cm)
- Length: 19 in. (48.26 cm)
- Height: 22 in. (55.88 cm)
- Weight: 19 lbs. (8.6 kg)

COMPRESSIONS:

- Compression Frequency: 100 compressions per minute
- Compression Stroke Range: Adjustable, 0.0 to 3.15 in (0.0 to 8.0 cm)
- Duty Cycle: Preset for 50/50 cycle
- Chest Compression Waveform: Exponential wave with a time constant of less than 60.0 msec

INPUT:

- Factory configured for compressed O₂ or medical air at 50 to 90 PSI (3.5 to 6.3 kgf/cm²)
- Gas Consumption: 45 LPM
- Indicator to show adequate input pressure
- Pressure relief safety valve
- Filters to prevent contamination
- Standard oxygen connectors

ADDITIONAL ACCESSORIES

The Thumper® Backboard is intended for either manual or mechanical CPR. It is designed to provide a firm, non-rebounding surface on which CPR can be performed, and a light hyperextension of the neck to facilitate upper airway management. It allows use of the Thumper® on either the right or left side of the patient. Straps help immobilize the patient to the Backboard. Optional straps are available to secure the Backboard to a stretcher or spine board.



The Michigan Instruments Back Pack is designed to offer rugged protection for your Thumper® while keeping the package small and lightweight.

These items and more can be purchased at our Web store—www.michiganinstruments.com/store

MICHIGAN INSTRUMENTS, INC. has designed and manufactured specialized medical equipment for over 45 years. Our founders have built an enviable reputation for products of unexcelled quality. This has earned us the respect of customers and medical professionals throughout the world.