



## Simple and Vital

CardiAid Automated External Defibrillator (AED) is an easy-to-use device designed specially to provide life-saving electroshock treatment for a patient having sudden cardiac arrest (SCA). It is an outstanding product with its innovative technology, functional design, highest production standards and impressive price performance. CardiAid AED is equipped with features warranting both the patient's and the user's safety.

- ♥ Can be used by any person with basic life support (CPR) knowledge.
- ♥ Gives opportunity of applying electroshock within 1-2 minutes.
- ♥ Automatically turns on when cover is opened.
- ♥ Diagnoses the potentially life threatening cardiac arrhythmias of ventricular fibrillation and ventricular tachycardia in a patient.
- ♥ Does not deliver shock if shock is not required.
- ♥ Clear verbal and visual instructions prepared according to ILCOR 2005 ERC Reanimation Guideline.
- ♥ Provides the most efficient electroshock with biphasic waveform.
- ♥ Assists the user through CPR with metronomic signals for maximum efficiency.
- ♥ Automatic self-test: daily, monthly and when the device is switched on.
- ♥ Pre-connected electrodes
- ♥ Movement detection
- ♥ Automatic event documentation
- ♥ Special accessories providing safety, easy use and best performance

**The CardiAid is the most user-friendly defibrillator available!**





## Accessories

1. CardiAid Protection Bag - CT0207P
2. Pre-connected Electrodes - CA10-ES
3. Emergency Kit - CT0207EK
  - Plastic Emergency Bag
  - Mask
  - Razor
  - Gloves
  - Scissors
  - Alcohol Pad

## CARDIAID CT0207 - TECHNICAL SPECIFICATIONS



### Defibrillation System

- Operating Mode :** Automated (one button operation)
- Wave Form :** Biphasic, current-limited
- Shock Energy :** Low energy (max. 181J) or high energy (max.237J), programmable, energy adjusted to patient impedance
- Shock Sequence :** Constant or escalating, programmable (factory setting)
- Charging Time :** Typically < 10 seconds\*, maximum <15 seconds\*

### ECG Analysis System

- Analysis Time :** Typically < 10 seconds\*
- Derivation :** II
- Asystole Threshold :** < 0,2 mV
- Specificity NSR/Asystole :** > % 95\*\*
- Sensitivity VF/VT :** > % 90\*\*
- Reaction to Implanted Pacemaker :** Normal cardiac pacemaker rhythms are not detected as being shockable
- Impedance Measurement :** Checks electrodes contacts
- Movement Detection :** Checks the signal quality; acoustic warning at patient movement

### Operation

- Operating Elements :**
  - i) Automatic switch-on when cover is opened
  - ii) Flashing shock key (one-button operation)
  - iii) Info key
- Info Mode :** Announcement of the elapsed time and number of shocks since device started, when info-button is pressed
- Display Elements :** Self-explanatory illuminated symbols (traffic light principle)

### Defibrillation Electrodes

- Range of Application :** CardiAid can be used for adult or young patients over 20 kgs
- Delivery State :** Disposable self-adhesive electrodes ready for use, sealed and packed with connector outside of package
- Polarization :** Not polarized
- Electrode Surface Area :** Each 125 cm<sup>2</sup>
- Cable Length :** 130 cm
- Shelf Life :** 30 months from date of manufacture

### Data Management

- Event Documentation :** Automatic recording of ECG and event data in internal memory up to 4 sessions with a total maximum duration of 4 hours
- Data Transfer :** Bluetooth (only for technical service)
- Event Review and Device Programming :** Via bluetooth connection to PC with CardiAid Monitor Software (only for technical service)

### Self-Test

- Schedule :** Automatic daily, monthly and when device is switched-on
- Timing :** Programmable
- Scope :** Battery, internal electronics, software, charging

### Energy Supply

- Type :** Alkaline
- Shock Capacity :** Typically 210 shocks\*, min. 100 shocks\*
- Monitoring Capacity :** Up to 20 hours
- Stand-by Period :** 2 years

### Environmental Conditions

- Storage and Transport:**
  - i) 0°C to +50°C
  - ii) -20°C to +60°C (limited to max. 2 weeks, without battery and electrodes)
- Operation :** 0°C to +50°C
- Relative Humidity :** 0 - 95%

### Standards

- Norms :** EN60601-2-4, EN60601-1
- Resuscitation Protocol :** ERC, ILCOR 2005
- EMC :** EN60601-1-2, EN55011, EN61000-4-3, EN61000-4-8
- Protection Class :** IEC 529, IPX4 (spray water safety)

### Dimensions and Weight

- Width :** 301 mm
- Height :** 304 mm (including handle)
- Depth :** 112 mm
- Weight :** 3,1 kgs (including battery and electrodes)
- Device Class :** II B (93/42/EEC)

\* Data are valid at 20°C with new, fully-charged batteries. Values can vary and are dependent upon storage and environmental conditions, frequency of use, pre-configured settings and the shelf life of the product.

\*\* The algorithm and the board of CardiAid AED CT0207 offers the optimum combination of sensitivity and specificity.

1) Published in "Automated Analysis of electrical signals of the human body for detecting of lifethreatening cardiac abnormalities", Igor Tchoudovski, Mensch and Buch Verlag, ISBN 3-89820-984-9, Page 141

2) The new VF/VT algorithm and board is used in CardiAid AED CT0207.

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