

DEFIBRILLATOR DF-2009

Features

- 7 inch display with built in printer
- Charging time 6 sec on mains.
- **Unit on-off** : By front panel keyboard, Encoder.
- **Operation** : User adjustable high & low limit, Audible and visual alarming.
- **Alarm**: 24 hrs. graphical and tabular trend of ECG, SPO2,NIBP,ETCO2.
- **Charge / Discharge** : Charge and shock button on front panel and paddles.

Performance

DEFIB (EXTERNAL PADDLES)

- **Operating Mode** : Manual.
- **Waveform** : Biphasic Truncated Exponential.
- **Energy** : 2 to 200 joules in 12 steps selection.
- **Energy display** : Display selected and charged/delivered energy.
- **Synchronous cardio version** : Energy delivery begins within 60 ms of the QRS peak
- **Charging time** : 6 seconds on mains
- **Paddle assembly** : External paddle assembly with coil retractable high voltage cable. Adults & pediatric paddle integrated to same handle.
- **Check mode** : Manual check mode.
- **Patient impedance range** : 35 ohm to 250 ohm.
- **Shock delivery** : Through paddles or pads.

ECG

- **Frequency response** : 0.5 Hz to 35 Hz.
- **Patient isolation** : Optical isolation
- **Lead selection**: Lead I,II,III.
- **Gain setting** : 0.5, 1.0 and 2.0
- **CMRR** : >90 db.
- **Sweep speed** : 12.5,25.0, 50.0 mm/sec.
- **Digital filter** : Digital signal processing for good quality of ECG.
- **ECG traces viewing** : 4 seconds of ECG traces.

PRINTER

- **Paper type** : Thermal paper 50/55mm width, 20 meters length for 2 inch printer.
- **Event printing** : Prints 5 seconds pre & post ECG with date, time energy and mode, shock status.
- **ECG in defib mode** : Prints last 10 sec ECG through paddle.
- **Print annotates in defib mode** : Time,Date,Mode,lead name Gain, sweep speed.
- **Manual defib check mode** : Prints the status of shock, energy, date and time.

Heart Rate

- **Range** : 10-250 BPM
- **Accuracy** : +/-2 BPM
- **Resolution** : 1 BPM
- **Tone** : Beep on every QRS detected
- **Alarm limit setting** : 10-250 (step of 1)

Accessories

- 6A Power cord
- User Manual
- Spare fuse

DEFIB (INTERNAL PADDLES) -OPTIONAL

- **Operating mode** : Manual.
- **Waveform** : Biphasic truncated exponential.
- **Energy** : 2 to 50 joules in 8 steps selection.
- **Synchronous cardio version** : Energy delivery begins within 60 ms of the QRS peak.
- **Charging time** : 6 seconds on mains
- **Paddle assembly**: external paddle assembly with coil retractable high voltage cable. Adults & pediatric paddle integrated to same handle.

SPO2 (Optional)

- **Range** : 9-100%
- **Accuracy** : 70-100% + 2 digits, 50-69% + 3 digits
- **Pulse rate** : Displayed in ECG window, when PR is selected
- **Pulse beep** : Yes, with volume control
- **PR range** : 10 to 250 bpm (+/- 2 bpm), Pitch variation with change in oxygen saturation.



NIBP (Optional)

- **Systolic, Diastolic and Mean arterial pressure range** : 10-250 mmHg.
- **Method** : Oscillometric.
- **NIBP interval** : User selectable – 2 min to 250 min.
- **Modes** : manual, auto.
- **Cuff deflation** : Automatic.
- **Safety features** : Automatic deflation if cuff pressure exceeds 280mmHg.
- **NIBP status display as** : "Ready", when not taking reading "Measuring", when taking reading and "Error", if reading could not be taken due to some error while measuring.
- **Patient type** : Adult, Pediatric, Neonate (+/- 2 bpm), Pitch variation with change in oxygen saturation.

PACER (Optional)

- **WAVE FORM** : Monophasic
- **Modes** : Demand or Non demand
- **Pulse current** : From 10mA to 150 mA (resolution of 10 mA)
- **Pulse Duration** : 40 ms (+/- 1 ms)
- **Pacing rate** : From 20 ppm to 250 ppm (increment of 1 ppm)
- **Refractory period** : 340 ms (from 30 to 80 ppm); 240 ms (from 90 to 180 ppm)
- **Maximum output voltage** : 150 v
- **Impedance range** : 200 ohm to 1k ohm

AED MODE (Optional)

- **WAVE FORM** : Biphasic truncated exponential
- **AED shock series** : Energy level 200J
- **Charge command** : Automatic after identifying shockable rhythm
- **Shock demand controls** : Front panel button, shock analyses
- **Defibrillation electrode** : Self-adhesive, adult pads
- **Voice and text prompts** : Extensive text and audible message to guide user

ETCO2 (Optional)

- **Parameter** : ETCO2, RR
- **Adopter** : Adult, pediatric, neonate
- **Measurement mode** : Mainstream & side stream
- **ETCO2 range** : 0-100 mmHg
- **Accuracy** : +/-2 mmHg
- **Respiration range** : 0-120bpm

Technical Specifications

- **Make / Model** : C CUBE, DF-2009
- **Parameter Measures** : Bi-Phasic Defibrillator with ECG and Printer.
- **Display** : 7" color TFT, Display area 150mm x 90 mm.
- **Input Supply** : 150-270 VAC, 50 Hz
- **Battery** : 12 V 4.5Ah, Rechargeable
- **Battery capacity** : 5 hours for monitor and 70-100 shocks on full charge
- **LED indicator** : Low battery and battery charging.
- **Power consumption** : 30 Watts (max.) in ECG mode
- **Operating Temp.** : -5 degree Celsius to +50 degree Celsius
- **Humidity** : up to 95% non-condensing.
- **Dimensions** : 280mm (H) x 330mm (W) x 220mm (D).
- **Weight** : approx. 7 kgs

NOTE : DUE TO OUR CONTINUOUS R & D PROGRAM SPECIFICATIONS AND DESIGN MAY CHANGE WITHOUT PRIOR NOTICE.



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