

FRED® easyport® & FRED® easyport® manual

The World's First Pocket Defibrillator

A Swiss Precision Masterpiece

The new external defibrillator that is so small and light it fits in every coat pocket and every doctor's bag, and still meets all requirements of a modern AED (Automatic External Defibrillator).

- Light – only 490 grams (incl. batteries)
- Small – only 133 x 126 x 35 mm
- High-resolution LCD
- Manual mode option

With SCHILLER's FRED® easyport®, a new chapter in the history of early defibrillation begins. Its small size and light weight make the FRED® easyport® the ideal companion of physicians, paramedics, public service staff and other persons trained in early defibrillation. Risk patients carry their own rescue device after they and their families have been introduced by their doctor. This dramatically reduces the response time to treat ventricular fibrillation and tachycardias, granting the victims a much better chance of survival.

The incredibly small pocket defibrillator with the effective and myocardium-saving energy emission called *MULTIPULSE BIOWAVE®* is an important milestone in the history of defibrillation. In four years of trials and clinical application, this biphasic pulsed defibrillation impulse **(1)** has proven to be extremely effective, at energies of only 90 and 120 joules **(2+3)**. Independent studies have also shown that *MULTIPULSE BIOWAVE®* causes much fewer ST alterations in



the ECG **(4)** and triggers significantly less CK and myoglobin in the blood **(5)**. This reduced myocardium damage increases the chance of survival especially for ischemic hearts **(6)**. The excellent defibrillation effectivity is reflected by the extremely short post shock phase.

- (1) CANCELL A. et al. Impulses or a series of impulses and device to generate them. US Patent 6,493,580. Priority date FR Jan. 27, 1999
- (2) VALENCE A. La Défibrillation Semi-Automatique par les Sapeurs-Pompiers de Nancy. Thèse. Faculté Médecine de Nancy, France, 2002
- (3) SCHLENK G. Early Defibrillation Programm. Deutsches Rotes Kreuz Leipzig, 2002
- (4) TRENDAFILOVA et al. Clinical Study *MULTIPULSE BIOWAVE®* vs. Monophasic pulses. SCHILLER internal Report, 2003
- (5) FUMAGALLI S. et al. External Cardioversion of Atrial Fibrillation in Young and Old Patients: Results of a Randomized Trial Comparing Biphasic and Monophasic Shock. American Heart Association. Scientific Sessions, Orlando, Florida, 2003
- (6) CANCELL A. Wirksamkeit und Sicherheit neuer Impulskurvenformen bei transthorakaler Defibrillation. Notfall & Rettungsmagazin 3: 458-474, 2000



SCHILLER
The Art of Diagnostics

NEW also with manual mode option

SCHILLER's FRED easyport® is also available with the **manual shock option** i.e. the doctor can switch off the AED mode and decide whether he wants to defibrillate or not.



Technical data FRED® easyport®:

Dimensions: 133 mm x 126 mm x 35 mm (l x w x h)

Weight: 490 g

Defibrillation waveform: Pulsed biphasic - MULTIPULSE BIOWAVE®

Energy*: Configurable from 1 to 120 J (adults), from 1 to 70 J (children)

Automatic recognition when children pads are connected.

Manual mode (option): Override of the AED mode to define energy level and shock delivery. Charging is commenced with the blue ANALYSIS button and the shock delivered with the orange SHOCK button.

Power supply: Li-MnO₂ cell

Screen: Screen: LCD 60 x 40 mm, high resolution with LED background lighting, text display, ECG display (configurable).

Defibrillation electrodes: Adults: 64 cm² surface area per electrode.

Paediatric: 28 cm² surface area per electrode. Electrode cable length: 1.40 m

Standards: The unit complies with all relevant standards for patient safety and operating conditions.

Memory: Mini SD card (option) for ECG and event recording

Software update: Via interface from PC / laptop

* The energy levels of the unit are defined by the unit software configuration. Other values can be set by SCHILLER AG.

Technical data and pictures are subject to change without notice.

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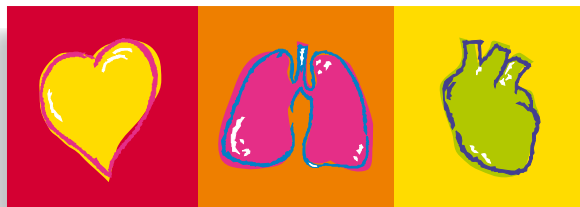
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