

The art of gentle resuscitation

SCHILLER's FRED® easy – the semi-automatic defibrillator with **MULTIPULSE BIOWAVE®** – for use by healthcare professionals and the general public alike (PAD)

The heart can stand still at any time – at work, during shopping, during sport activities, or at home. In Europe, an average of ten persons die from sudden heart death every hour. This means that in places where many people are present – in companies, shopping centers, sports centers, hotels, railway stations, etc. – there is an increased risk that a potential cardiac arrest victim is among them. These lives can only be saved by a timely current impulse from a defibrillator. In case of cardiac arrest, seconds decide over life and death – every minute of delay exponentially decreases the survival chance. In most cases, death will occur within 10 minutes.

SCHILLER's semi-automatic FRED® easy makes resuscitation even simpler and more efficient. With the unique **biphasic MULTIPULSE BIOWAVE® technology**, a successful defibrillation only requires about 1/3 of the energy which would be needed using monophasic pulse. This new, gentle resuscitation method increases the chances of survival after pre-hospital cardiac arrest. The FRED® easy combines the following **advantages and options** with the classic functions of the semi-automatic FRED®, (First Responder External Defibrillator):

- **Considerably lower defibrillation energy:**
Using **MULTIPULSE BIOWAVE®**, (biphasic pulsed defibrillation impulse)
- **Easy operation in 3 steps:**
START – ANALYSIS – SHOCK; automatic analysis configurable
- **Quick charging time:** < 10 seconds
- **User-friendly LCD screen:**
Display of time, number of shocks, battery and memory capacity, electrode type, text instructions



- **Efficient and secure analysis** for fibrillation detection
- **Standard energy settings:**
Energy values are freely configurable:
 - Adults: 1 to 150 J
 - Pediatric: 1 to 70 J (automatic switch when pediatric electrodes are plugged in)
- **ECG and event recording**
- **High performance battery:**
 - Li-MnO₂: 180 shocks at 150 J or 6 h 30 min. operation (without shock); standby: 5 years
 - NiCd (option): 45 shocks at 150 J or 1.5 h operation (without shock)
- **Automatic self-tests**
- **Extensive education material** (including a training device) available



NEW also with manual mode:

SCHILLER's **FRED® easy** 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® easy:

Dimensions: 70 mm x 230 mm x 220 mm (h x w x d)

Weight: Approx. 1,5 kg incl. battery

Defibrillation waveform: Pulsed biphasic - MULTIPULSE BIOWAVE®

Energy levels*: Configurable from 1 to 150 J (adults) or 1 to 70 J (pediatric); automatic detection of pediatric electrodes

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

Power supply: Li-MnO₂ cell or NiCd cell (option)

Screen: LCD: 100 mm x 37 mm, high resolution with LED background lighting, text display and optional ECG display (configurable)

Defibrillation electrodes:

- Adults: 75 cm² surface area per electrode; electrode cable length: 2 m

- Pediatric: 38 cm² surface area per electrode; electrode cable length: 1.4 m

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

Memory: Optional storage of ECG recording, event an ambient noise on SD card

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 are subject to change without prior notice. No liability is assumed for pictures.

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