

Electrotherapy, laser therapy and magnetotherapy



Etius LM

Multifunctional unit Etius LM found its application in electrotherapy, laser therapy and locally focused magnetotherapy. The unit has the possibility of performing semi-automatic electrodiagnostics of nervous muscle system.

Etius LM unit is equipped with two fully independent electrotherapy treatment channels with the possibility of performing treatment procedures on 4 electrodes as well as channels using laser radiation or low frequency magnetic field.

Basic area of its functionality is electrotherapy, in which the unit provides the availability of all typical and commonly used currents. Additionally, the unit offers completely new possibilities: application of microcurrents, unipolar sine surge and specially designed TENS currents used in spastic paralysis therapy.

Additionally, the unit is equipped with specially dedicated modes for operation with the use of different types of optical fiber applicators that improve the effectiveness of treatments.

Versatility of the unit allows to perform simultaneous treatments with different parameters on one or two patients.

Etius LM unit has got a data base of 301 preset treatment programs and sequences specially developed in cooperation with physiotherapy experts. In addition, the device possesses a concise, easily customizable list of favorite programs, where the users can save their most commonly used treatment programs.

SPECIFICATION

ELECTROTHERAPY – CURRENTS

- interferential (isoplanar, dynamic, static, one-channel (AMF) currents)
- TENS (symmetric, asymmetric, alternating, burst)
- TENS to spastic paralysis therapy
- Kotz'/Russian stimulation
- tonolysis
- diadynamic (MF, DF, CP, CP-ISO, LP)
- pulse (rectangular, triangular)
- pulse – Trabert, Leduc', faradic
- USS – unipolar sine surge
- galvanic
- microcurrents

ELECTRODIAGNOSTICS

- electrodiagnostics with graphic presentation of I/t curve
- automatic calculation of rheobase, chronaxie and quotient of accommodation



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LASERTHERAPY (optional)

- point probe R 660 nm/40 mW
- point probe R 660 nm/80 mW
- point probe IR 808 nm/200 mW
- point probe IR 808 nm/400 mW
- scanning applicator R+IR 50 mW + 400 mW
- scanning applicator R+IR 100 mW + 450 mW
- cluster laser applicator CL1800 5Rx40 mW + 4IRx400 mW
- emission of laser radiation in continuous and pulse mode
- regulation of duty factor or pulse time
- regulation of laser power radiation
- optical fiber applicators for laser acupuncture and laryngological application

MAGNETOTHERAPY (optional)

- CPE type plate applicators intended for locally focused magnetotherapy
- optional – magnetic field application with the use of one or two coupled applicators
- convenient fastening of applicators by velcro belts
- field type: sine, triangular, rectangular, half sine, half-triangular, half-rectangular
- continuous and interrupted emission
- wide range of frequencies

MANUAL MODE

complete control over parameters for advanced users

TREATMENT PROGRAMS

- simplification of the unit operation
- treatment programs chosen by name
- 301 preset treatment procedures
- 90 user-defined programs
- 90 favorite programs
- naming individual user programs



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Technical specification

ERGONOMICS

- two independent treatment channels
- operation mode: program/manual
- easy-to-read display
- operation in graphic mode
- preset treatment program base
- treatment programs chosen by name
- treatment timer
- electrodes test
- statistics – the number of performed treatments
- buzzer volume setting
- dedicated modes of operation for optical fiber applicators
- convenient fastening of magnetic field applicators by velcro belts

STRUCTURE

- graphic LCD display
- modern design
- heavy-duty and reliable keyboard
- operation in CC (stabilized output current) and CV (stabilized output voltage) modes
- complete galvanic isolation between channels in each mode
- self-test – systematic control of the unit
- light weight and compact dimensions enables easy transportation of the unit

TECHNICAL PARAMETERS

controller – maximum constant current in patient's circuit (CC mode):

interferential, Kotz', unipolar sine surge	100 mA
TENS	140 mA
diadynamic, pulse	60 mA
galvanic	40 mA
tonolysis	100 mA
microcurrents	1 000 μ A
maksymalna amplituda napięcia	
max. voltage in patient's circuit (CV mode)	140 V
max. magnetic field induction	10 mT (100 Gs)
laser therapy device class	3B
mains supply	230 V, 50 Hz, 70 W, 100 VA
weight	max. 6 kg



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Technical specification

STANDARD ACCESSORIES

- mains cable
- patient's cable (2 pcs.)
- electrode 6x6 cm (4 pcs.); 7,5x9 cm (2 pcs.)
- viscose cover 6x6 cm (8 pcs.); 7,5x9 cm (4 pcs.)
- velcro belt 40x10 cm (2 pcs); 100x10 cm (2 pcs.)
- spare fuse WTA-T 1 A/250 V (2 pcs.)
- DOOR – remote interlock connector (1 pcs.)
- User Guide

OPTIONAL ACCESSORIES

- disposable self-adhesive electrodes 3x4 cm; 5,5x5,5 cm; 5,5x12,5 cm
- point electrodes 5 mm, 10 mm, 15 mm, 20 mm
- crocodile clip
- sand-filled bag 21x14 cm, 21x28 cm
- PRO bag
- Elf, Elf X trolley
- point probe R 660 nm/40 mW with holder
- point probe R 660 nm/80 mW with holder
- point probe IR 808 nm/200 mW with holder
- point probe IR 808 nm/400 mW with holder
- scanning applicator R+IR 50 mW + 400 mW with a stand
- scanning applicator R+IR 100 mW + 450 mW with a stand
- cluster laser applicator CL1800 5Rx40 mW + 4IRx400 mW with holder
- magnetic field applicator – CPE type with covers
- patient's stop switch

