

Electrotherapy



Electrotherapy uses the biological effects that can be obtained using electricity for therapeutic purposes, and involves electric currents that are passed through the relevant part of the body, being careful to choose them with specific characteristics that are suitable for the purposes to be achieved. Electrotherapy is used to stimulate denervated muscles, to reduce atrophy due to non-use of a normally innervated muscle, and to maintain muscular trophicity of denervated or partially innervated muscles, in order to strengthen the innervated muscle. The principal effects of electric current applied to body tissue include motory activation, thermal, trophic, analgesic, and chemical effects. Each muscular stimulation electric impulse is characterised by: Wave frequency: measured in Hz (hertz); Wave width: measured in msec (milliseconds); Intensity: measured in mA (milliampere).

Principal effects of electrical stimulation

- Training the neuro-muscular system to respond appropriately during voluntary and involuntary effort, providing an active (isometric, concentric, and eccentric) contraction and the resulting articular movements, providing proprioceptive feedback.
- Modulation of pain by means of the gate control mechanisms or descending inhibition mechanisms (production of endogenous opioids).
- Control or reduction of spasticity by stimulating (contraction and relaxation) agonists, (reciprocal inhibition) antagonists, or prevention of motorial sensation.
- Providing transdermal releasing of medicamentous substances in the skin (iontophoresis).
- Improving or maintaining articular mobility by mechanical stretching of muscles or connecting tissue or reducing impediment to movement, caused by neuromuscular dysfunctions (e.g. spasticity), pain or oedema.
- Facilitating healing of wounds by increasing local circulation, providing a bacterial effect, or changing the electric charges in the injured area.
- Slowing down or resolving oedema by the activity of the muscular pump or the effect of the electric charges on the interstitial proteins (electric field phenomena).



ACCESSORIES

2



ELO009 SPONGES CM 7 X 6
Sponges cm 7 x 6, set of 2 pieces

EL13009 SPONGES CM 7 X 6
Sponges cm 7 x 6, set of 25 pieces



ELO010 SPONGES CM 7 X 11
Sponges cm 7 x 11, set of 4 pieces

EL13010 SPONGES CM 7 X 11
Sponges cm 7 x 11, set of 25 pieces



ELO015 OUTPUT CABLE
Additional 2-channel output cable



ELO159 MANUAL STIMULATION HANDPIECE
Handpiece for manual stimulation, 4mm



ELO016 CARRY CASE
Universal carry case for transport of portable unit. That's available for all Chinesport electro-medical equipment of the Excellent, Plus and Basic lines.



ELO011 ELECTRODES 5 X 5 CM
Electrodes cm 5 x 5, set of 2 pieces

EL13011 ELECTRODES 5 X 5 CM
Electrodes cm 5 x 5, set of 25 pieces



ELO012 ELECTRODES CM 6 X 8
Electrodes cm 6 x 8, set of 4 pieces

EL13012 ELECTRODES CM 6 X 8
Electrodes cm 6 x 8, set of 25 pieces



ELO082 LINK CABLE
Cable to connect electrotherapy and ultrasound machines.



EL12005 UROLOGY KIT
This kit consists of: 2 probes and two rings (1 vaginal and 1 anorectal) for KOMBY and MEDICSTIM models.



AC0665 ELASTIC BAND CM 60 X 3 H
Elastic band cm 60 x 3, one piece

EL13013 ELASTIC BANDS CM 60 X 3 H
Elastic bands cm 60 x 3, set of 20 pieces



AC0667 ELASTIC BAND CM 100 X 3 H
Elastic band cm 100 x 3, one piece

EL13014 ELASTIC BANDS SET CM 100 X 3 H
Elastic bands cm 100 x 3, set of 20 pieces



EL12003 TROLLEY
Trolley with tabletop and possibility of fixing non wheeled electromedical equipment and the arms.

SMART CARD TECHNOLOGY - EXTERNAL MEMORY



ELO001 PERSONAL SMART CARD
The smart card memory can be used with the Excellent and Plus lines. It's possible to save customized treatments based on specific setting of parameters. These therapies can be used for a specific user or a group of patients affected by same pathology. Set of 10 pieces.

Electrotherapy

EL12084 MEDICSTIM EXCELLENT

Electro therapy equipment with 2 channels. Muscular monitoring.

Distinctive elements

- Wide display: 6" colour touch-screen.
- 32 wave forms: Low and Medium frequencies, High Voltage, Microcurrents, APS and others.
- More than 100 therapeutic suggestions grouped according to anatomical areas, specialist branches and waveforms.
- I/T curve and after treatment.
- Patient file for storing all patient's data, treatments and short case history.
- Help button. Each therapeutic suggestion shows indications on its use and where to place electrodes.
- Connection link for ultrasound-electrotherapy combined treatments.
- Connection with Vacuumed for combined treatments with vacuum therapy.
- Smart card to store many personalised treatments and patient files.



CE 0476

TECHNICAL FEATURES

Mains power supply:	230 Vac, 50-60Hz, ±10%	
	115 Vac, 50-60Hz, ±10% (on request)	
Maximum power absorbed from the mains:	35 VA	
Backlit LCD display:	color 320 x 240 Touch screen	
Programmable treatment time	up to 60 minutes	
Electrical insulation class UNI EN 60601-1:	I / BF	
Device class 93/42/CEE:	II B	
Degree of protection against liquids UNI EN 60601-1:	IPX0	
Emission frequency	32 waveform families - 39 waveform in total	
Operation:	Constant voltage - Constant current	
Peak currents (Load resistance 1Kohm)	Pulsed currents	100 mA
	Diadynamic currents	70 mA
	Continuous currents	50 mA
Peak voltage (Load resistance 1Kohm)	Pulsed currents	100 V
	Diadynamic currents	70 V
	Continuous currents	50 V
Muscular monitoring:	I/t curve, rheobase and chronaxy	
Output channels:	2	
Stored protocols in the user memory	243	
Storable protocols in the smart-card	100	
Storable protocols	200	
Dimensions	39 x 13 x 32 cm	
Weight	4,7 Kg	

Standard Accessories

	Q.TY
Power cable	1
Fuses	2
Manual of therapies	1
Electrodes 6x8 cm	4
Electrode sponges 7x11 cm	4
Electrodes 5x5 cm	4
Electrode sponges 7x6 cm	4
Elastic band 100x3 cm	2
Elastic band 60x3 cm	2
Electro therapy output cable	1
Smart card	1
TouchScreen pen	1

Optional Accessories

EL0001	PERSONAL SMART CARD
EL0009	SPONGES CM 7X6
EL0010	SPONGES CM 7X11
EL0011	ELECTRODES CM 5X5
EL0012	ELECTRODES CM 6X8
EL0015	OUTPUT CABLE
EL0016	CASE
EL0082	LINK CABLE
EL0159	MANUAL STIMULATION HANDPIECE
EL12003	TROLLEY
EL12004	VACUUM THERAPY
EL12005	UROLOGY PROGRAM KIT
EL13009	SPONGES 7X6 CM
EL13010	SPONGES 7X11 CM
EL13011	ELECTRODES 5 X 5 CM
EL13012	ELECTRODES 6 X 8 CM
EL13013	ELASTIC BAND SET
EL13014	ELASTIC STRAPS SET
AC0665	ELASTIC BAND CM 60
AC0667	ELASTIC BAND CM 100

EL12053 MEDICSTIM 2 COMPLET

Equipment with 2 channels, with all low and medium frequency wave forms.

EL12054 MEDICSTIM 4 COMPLET

Equipment with 4 channels, with all low and medium frequency wave forms. Muscular monitoring.

Distinctive elements

- 24 wave forms (low and medium frequency).
- Possible connection to ultrasound devices for combined usage.
- Color display with Touch & scroll function.
- I/T Curve.
- Possible connection to the Vacuum device for combined usage.
- Electrodes test.
- Creation of various treatment sequences having different waveforms.
- Smart Card included.



2



TECHNICAL FEATURES

Mains power supply:		230 Vac, 50-60Hz, ±10%
		115 Vac, 50-60Hz, ±10% (on request)
Maximum power absorbed from the mains:	Medicstim 4 Complet	65 VA
	Medicstim 2 Complet	35 VA
Backlit LCD display:		B/W 320 x 240 Touch screen
Programmable treatment time		up to 60 minutes
Electrical insulation class UNI EN 60601-1:		I / BF
Device class 93/42/CEE:		II B
Degree of protection against liquids UNI EN 60601-1:		IPX0
Muscular monitoring:		I/t curve, rheobase and chronaxy
Output channels	Medicstim 4 Complet	4 independent
	Medicstim 2 Complet	2 independent
Stored protocols:		50
Protocols storable in the user memory:		200
Sequences storable in the user memory:		10
I/t Curves storable in the user memory:		100
Reobase/cronaxya values storable in the user memory:		100
Protocols storable in the smart-card:		40
Sequences storable in the smart-card:		10
I/t Curves storable in the smart-card:		20
Reobase/cronaxya values storable in the smart-card:		10
Dimensions:		39 x 13 x 32 cm
Weight	Medicstim 4 Complet	5,2 Kg
	Medicstim 2 Complet	4,6 Kg

Standard Accessories EL12053 EL12054

Power cable	1	1
Fuses	2	2
Manual of therapies	1	1
Electrodes 6x8 cm	4	8
Electrode sponges 7x11 cm	4	8
Electrodes 5x5 cm	4	8
Electrode sponges 7x6 cm	4	8
Elastic band 100x3 cm	2	4
Elastic band 60x3 cm	2	4
Electro therapy output cable	1	2
Smart card	1	1

Optional Accessories

- EL0001 PERSONAL SMART CARD
- EL0009 SPONGES CM 7X6
- EL0010 SPONGES CM 7X11
- EL0011 ELECTRODES CM 5X5
- EL0012 ELECTRODES CM 6X8
- EL0015 OUTPUT CABLE
- EL0016 CASE
- EL0082 LINK CABLE
- EL0159 MANUAL STIMULATION HANDPIECE
- EL12003 TROLLEY
- EL12004 VACUUM THERAPY
- EL12005 UROLOGY PROGRAM KIT
- EL13009 SPONGES 7X6 CM
- EL13010 SPONGES 7X11 CM
- EL13011 ELECTRODES 5 X 5 CM
- EL13012 ELECTRODES 6 X 8 CM
- EL13013 ELASTIC STRAPS SET
- EL13014 ELASTIC STRAPS SET
- AC0665 ELASTIC BAND CM 60
- AC0667 ELASTIC BAND CM 100

Electrotherapy

EL12050 MEDICSTIM BASIC

Electro therapy equipment with 2 independent channels, providing low and medium frequency current, for a total of 23 wave forms.

Distinctive elements

- 23 waveforms available in the software.
- Two completely independent outputs with banana cables 2 mm.
- Possible connection to ultrasound model for combined applications.
- Graphic display with a very good resolution.
- Easy to use: easy and clear interface.
- Possible connection to the Vacuum device for combined usage applications.
- Electrodes test.
- Multilingual software.



TECHNICAL FEATURES

Mains power supply:	230 Vac, 50-60Hz, $\pm 10\%$ 115 Vac, 50-60Hz, $\pm 10\%$ (upon request)
Maximum power absorbed from the mains:	30 VA
Backlit LCD display	B/W 240 x 64 pixel
Programmable treatment time	up to 60 minutes
Electrical insulation class UNI EN 60601-1:	I / BF
Device class 93/42/CEE:	II B
Degree of protection against liquids UNI EN 60601-1:	IPX0
Output channels	2 independent
Stored protocols:	20
Storable protocols:	10
Dimensions:	39 x 13 x 32 cm
Weight	4,2 Kg

















Standard Accessories

















	Q.TY
Power cable	1
Fuses	2
Manual of therapies	1
Electrodes 6x8 cm	4
Electrode sponges 7x11 cm	4
Electrodes 5x5 cm	4
Electrode sponges 7x6 cm	4
Elastic band 100x3 cm	2
Elastic band 60x3 cm	2
Electro therapy output cable	1

Optional Accessories

EL0009	SPONGES CM 7X6
EL0010	SPONGES CM 7X11
EL0011	ELECTRODES CM 5X5
EL0012	ELECTRODES CM 6X8
EL0015	OUTPUT CABLE
EL0016	CASE
EL0082	LINK CABLE
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EL13014	ELASTIC STRAPS SET
AC0665	ELASTIC BAND CM 60
AC0667	ELASTIC BAND CM 100



WAVE FORMS PROVIDED	MODEL					
	EL12050	EL12053	EL12054	EL12084	EL12058	EL12059
 High voltages				•		
 AL- Tens				•		
 APS				•		
 Biphasic S/ A	•	•	•	•	•	•
 Short period	•	•	•	•	•	•
 Diphasic	•	•	•	•	•	•
 Exponential		•	•	•		•
 Galvanic	•	•	•	•	•	•
 Classic Interferential	•	•	•	•	•	•
 Isoplanar Interferential	•	•	•	•	•	•
 Vectorial interferential	•	•	•	•	•	•
 Interferential	•	•	•	•	•	•
 Iontophoresis	•	•	•	•	•	•
 Kotz	•	•	•	•	•	•
 Long period	•	•	•	•	•	•
 Micro-currents				•		

WAVE FORMS PROVIDED	MODEL					
	EL12050	EL12053	EL12054	EL12084	EL12058	EL12059
 Monophasic	•	•	•	•	•	•
 Neodynamic	•	•	•	•	•	•
 H-wave				•		
 Pharadic rectangular	•	•	•	•	•	•
 Rectangular	•	•	•	•	•	•
 Synop. Diphasic	•	•	•	•	•	•
 Synop. Monophasic	•	•	•	•	•	•
 Perineal Stimulation				•		
 Short-intense TENS				•		
 Tens burst S/ A/ R	•	•	•	•	•	•
 Modulated Tens				•		
 TENS random S/ A/ R	•	•	•	•	•	•
 TENS S/ A/ R	•	•	•	•	•	•
 Traebert	•	•	•	•	•	•
 Neodynamic triangular	•	•	•	•	•	•
 Triangular	•	•	•	•	•	•