

HiToP® 184



HiToP® 184

A four-channel pain therapy device for a holistic treatment of the patient.

The HiToP® 184 permits treatment of various indications. The main indications are gonarthrosis, coxarthrosis, cervical spine syndrome, lumbar spine syndrome, shoulder-arm syndrome. Moreover, polyneuropathia, epicondylitis and other indications are treated successfully.

The simultaneous treatment of cause and symptom is the reason for the good results of this therapy. Parallel to the various indications the device also offers whole body vitalization.

A part from the medical field HiToP® 184 offers an extremely wide choice of programs in the wellness area. Lipolysis, cellulite, fat burning, sport, body shaping are programs that can be applied parallel to the whole body vitalization.

Medical programs:

SimulFAM® i
Reha
Mobilization
Musclepump
Trauma
Lymphdrainage
Edema
Pain
Nerveblock
Universal

Wellness programs:

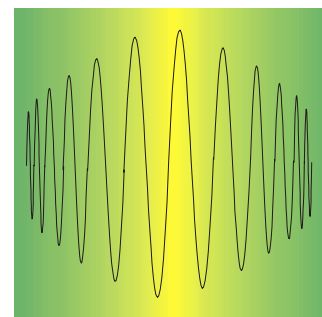
Vitalisation
Sport
Elektro massage
Shaking massage
Lipolysis
Fatburning
Bodyshaping
Cellulite

The most important advantages at a glance:

4 independent channels for the treatment in two areas.
Whole body treatment for vitalisation
Easy operation by selecting programs from a list.
Safety circuit to avoid voltage sensations caused by bad electrode placement.
No side effects.

Channels	4 independent channels
Display	LCD
Operating frequencies	0,1 - 200 Hz 4096 – 32768 Hz
Timer	0 – 90 min
Supply voltage	115/230 V, 50/60 Hz
Power consumption	max 100 VA
Protection class	I/BF (IEC 601-1)
Equipment class	IIa (acc. to MDD)
Dimension	15,5 x 42 x 40,5 cm (H x W x L)
Weight	13 kg
Warranty	24 months

Subject to technical changes without prior notice.



HiToP[®] 182



HiToP[®] 182

A pain therapy device for local application.

The HiToP[®] 182 permits treatment of various indications.

The main indications are gonarthrosis, coxarthrosis, cervical spine syndrome, lumbar spine syndrome, shoulder-arm syndrome. Moreover, polyneuropathia, epicondylitis and other indications are treated successfully.

In the field of cosmetic treatment the programs of lipolysis, cellulite, sports, fat burning and body shaping are used. The device is particularly characterized by the very simple handling and the little space needed.

Medical programs:

SimulFAM[®] i
Reha
Mobilization
Musclepump
Trauma
Lymphdrainage
Edema
Pain
Nerveblock
Universal

Wellness programs:

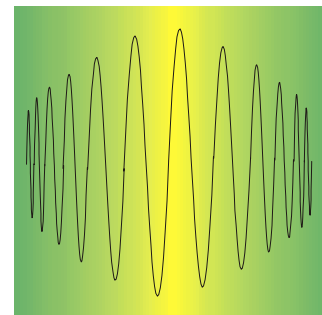
Vitalisation
Sport
Elektro massage
Shaking massage
Lipolysis
Fatburning
Bodyshaping
Cellulite

The most important advantages at a glance:

2 independent channels for the treatment in two areas.
Whole body treatment for vitalisation
Easy operation by selecting programs from a list.
Safety circuit to avoid voltage sensations caused by bad electrode placement.
No side effects.

Channels	2 independent channels
Display	LCD
Operating frequencies	0,1 - 200 Hz 4096 – 32768 Hz
Timer	0 – 60 min
Supply voltage	115/230 V, 50/60 Hz
Power consumption	max 100 VA
Protection class	I/BF (IEC 601-1)
Equipment class	IIa (acc. to MDD)
Dimension	12 x 27,5 x 32 cm (H x W x L)
Weight	5 kg
Warranty	24 months

Subject to technical changes without prior notice.



HiToP[®] 181-H



HiToP[®] 181

A pain therapy device for the treatment at home

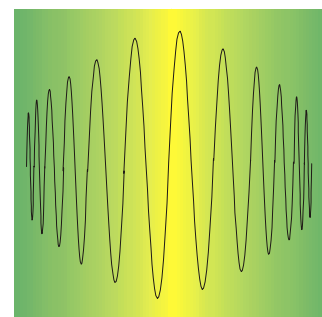
This patient device is designed for home use. It is passed on to the patient by the doctor and the patient performs the treatment on his own. The device is set up by the doctor according to his diagnosis. The number of treatments is limited and programmed from the HiToP[®] 184 via an IR interface. After completion of the set therapy, the patient must have the device recharged at the doctor's, after renewed diagnosis. The device comes with a single channel. Cause and symptom are treated consecutively.

The most important advantages at a glance:

- Whole body treatment for vitalisation
- Three different therapies adjustable
- Safety circuit to avoid voltage sensations caused by bad electrode placement.
- No side effects.

Channels	One channel
Display	LCD
Operating frequencies	4096 – 32768 Hz
Modulations	0,1 - 200 Hz
Timer	fixed by HiToP 184 (1-90 min)
Supply voltage	115/230 V, 50/60 Hz
Power consumption	max 80 VA
Class of protection	I (IEC 601-1)
Degree of protection	BF (IEC 601-1)
Class of equipment	IIa (acc. To MDD)
Dimension	6 x 23 x 32 cm (H x D x W)
Weight	3,7 kg
Warranty	24 months

Subject to technical changes without prior notice.



МЕД СОЮЗ

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www.medsoyuz.ru
E-mail: ru@medsoyuz.ru

HiToP[®] 191



HiToP[®] 191

The home unit for the treatment of DSP (diabetic poly-neuropathic pain)

The HiToP[®] 191 is a HighTone therapy unit with its treatment current and parameters especially designed for the medical muscle stimulation for the treatment of DSP (diabetic polyneuropathic pain).

While conventional electro therapy is known and proven for over 150 years, the HighTone therapy represents an innovative development that not only increases the patient's comfort but more important, significantly increases the efficacy of the therapy. This therapy, for which a patent has been attributed, was developed by gbo in close cooperation with Dr. med. H.-U. May. Based on his decades of experience in electro therapy and his profound knowledge regarding the physiology and the bio electric processes in the human body, he was able to improve the existing middle frequency therapies drastically and to design with the HighTone therapy a completely new generation of electro therapy.

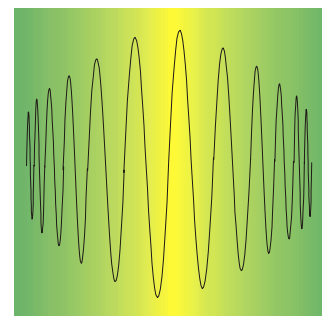
The HighTone therapy with its frequency scan between 4 and 32 kHz uses the physiological characteristics of a human being in an optimal way. On one hand, the well-known physiological stimulation from electro therapy is being generated. Through the frequencies applied, the cell structures are being brought into oscillations which in turn greatly alleviates different processes in the metabolism. Further on, a lot more energy is introduced to the body compared to conventional electro therapy. By that, the mitochondria, the power plants of the cells, grow in number and size and the patients feel a lasting vitalization.

Besides all those positive effects, it is most important to note for the user that the HighTone therapy will generate an especially deep and pronounced contraction of the muscle while still being perceived as an extremely comfortable treatment.

In view of all those facts, it is not surprising that clinical studies have shown that the efficacy of HighTone therapy in the treatment of DSP is much higher than that of conventional electro therapy.

Channels	One channel
Display	LCD
Operating frequencies	4096 – 32768 Hz
Modulations	20 Hz
Supply voltage	115/230 V, 50/60 Hz
Power consumption	max 80 VA
Class of protection	I (IEC 601-1)
Degree of protection	BF (IEC 601-1)
Class of equipment	IIa (acc. To MDD)
Dimension	6 x 23 x 32 cm (H x D x W)
Weight	2,3 kg
Warranty	24 months

Subject to technical changes without prior notice.



МЕД СОЮЗ

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HiToP® BodyBeauty 172



HiToP® BodyBeauty 172

The new recipe for success in body forming and for vitalization in wellness applications

The HiToP® BodyBeauty 172 is a device that has been specially designed to bring the benefits of the successful HighTone Therapy to wellness applications. Its main applications are, among others:

cellulite, lipolysis, fat burning, sport, vibromassage, body shaping, electromassage, vitalization.

Lipolysis, based on the excellent performance of HighTone Therapy as applied successfully in the medical field, offers amazing results. It is especially in the treatment of problem zones, e.g. cellulitis, that this recipe for success demonstrates its effectiveness.

Programs:

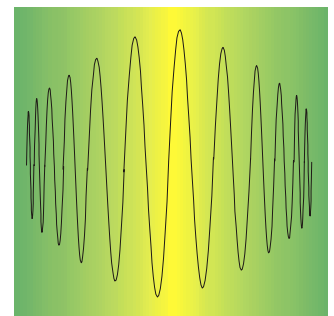
Vitalisation
Sport
Elektro massage
Shaking massage
Lipolysis
Fatburning
Bodyshaping
Cellulite

The most important advantages at a glance:

2 independent channels for the treatment in two areas.
Whole body treatment for vitalisation
Easy operation by selecting programs from a list.
Safety circuit to avoid voltage sensations caused by bad electrode placement.
No side effects.

Channels	2 independent channels
Display	LCD
Operating frequencies	0,1 - 200 Hz 4096 – 32768 Hz
Timer	0 – 60 min
Supply voltage	115/230 V, 50/60 Hz
Power consumption	max 100 VA
Protection class	I/BF (IEC 601-1)
Equipment class	IIa (acc. to MDD)
Dimension	12 x 27,5 x 32 cm (H x W x L)
Weight	5 kg
Warranty	24 months

Subject to technical changes
without prior notice.



МЕД СОЮЗ

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HiToP® PowerStim 142



HiToP® PowerStim 142

A unit for muscle stimulation in sports medicine and rehabilitation.

The **HiToP®** PowerStim 142 is a device that has been specially designed for the fields of sports medicine and rehabilitation.

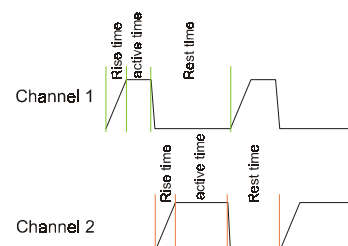
It is based on the successful HighTone Therapy according to Dr. H.-U. May.

The main indication of the HiToP® PowerStim 142 is the training of muscle groups, agonists and antagonists alternately, by use of two channels.

You can install 20 user defined programs for individual usage. Program 1 to 4 are directly reachable by buttons. Program 5 to 20 can be loaded by the menu.

With the swelling unit you can set raise hold and rest time of a sports program.

A special feature is the synchronisation of the 2 channels. At the rest time of channel 2 channel 1 is active and in the rest time of channel 1 channel 2 is active.



The most important advantages at a glance:

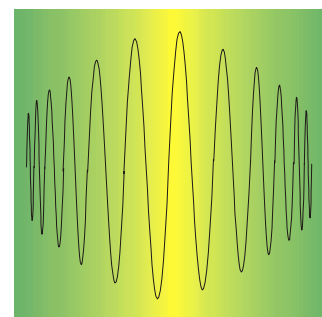
2 independent channels for the treatment in two areas.

20 program places
Easy operation by selecting user defined programs by program buttons.

Safety circuit to avoid voltage sensations caused by bad electrode placement.
No side effects.

Channels	2 independent channels
Display	LCD
Operating frequencies	0,1 - 200 Hz 4096 – 32768 Hz
Timer	0 – 60 min
Supply voltage	115/230 V, 50/60 Hz
Power consumption	max 100 VA
Protection class	I/BF (IEC 601-1)
Equipment class	IIa (acc. to MDD)
Dimension	12 x 27,5 x 32 cm (H x W x L)
Weight	5 kg
Warranty	24 months

Subject to technical changes without prior notice.



STEREODYNATOR® 928



The top of the line device with patented three dimensional interferential current

The STEREODYNATOR® 928 sets new standards in electrotherapy. With its range of applications it is predestined for use in the physiotherapy department of hospitals and in all modern, well-equipped practices. A stereodynamic interference current is generated through the superposition of three middle-frequency currents flowing in different directions. The stimulating lower frequencies are already generated through interference of two phase shifted circuits in the area being stimulated. The additional third electrical circuit generates, as opposed to classical interference methods, on one side a slower change in intensity and on the other side a rhythmic shifting of the interference field. These dynamics of the area being stimulated and the intensity decrease the habituation effect and therefore improve the therapeutic effect.

Complete range of current waveforms
User-adjustable current waveforms in all parameters

Large program memory
Large full-graphics display
Application menu with electrode placement aids
Stereodynamic interference current with

- Three-dimensional stimulation effect
- Multi-local stimulation effect
- Intensity dynamic
- Dynamic behaviour of stimulation site coupled with endogenous/exogenous stimulation shifting

Availability of automatic programs for sedation, myokinetics and vegetative stimulation

STEREODYNATOR® 928 offers the following as options:

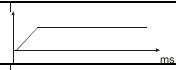
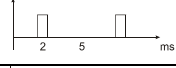
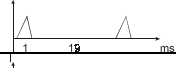
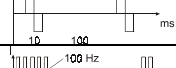
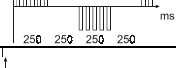
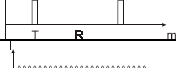
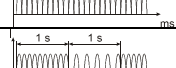
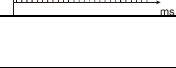
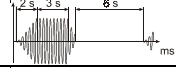
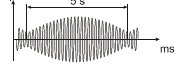
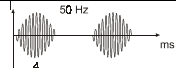
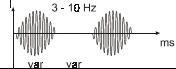
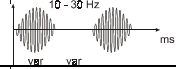
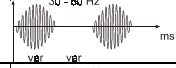
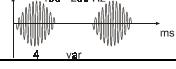
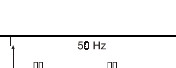
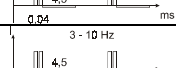
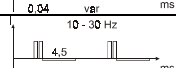
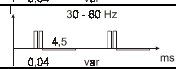
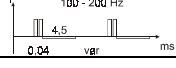
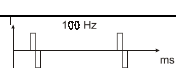
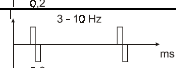
Integrated suction application module with suction massage
Integrated module for ultrasound therapy with continuous or pulsed sound and for the combination of electrotherapy and ultrasound therapy

Treatment time	max. 40minutes
Intensity and current forms	Single channel currents and 3 channel interference (see table below)
Power supply	110/120/230/240V, 50/60Hz
Power consumption	max. 230 VA
Class of protection	I (IEC601/VDE 0750)
Degree of protection	BF (IEC 601/VDE 0750)
Class of equipment	IIa acc to MDD
Dimensions	410 X 150 x 480 mm (WxHxD)
Weight	max 17 kg
Warranty period	24 months

Subject to technical changes without prior notice.

Table of currents (1)



Current	Grafics	Pulse duration T in ms	Pause duration R in ms	D.C. portion in %	Frequency in Hz	Maximum output voltage by CV in V_{peak}	Max. output current by CC in mA_{peak}
Galvanic current		-	-	100	0	70	70 ₁₎
Ultrastimulation current		2.0	5.0	28.6	143	70	70
Faradic current		1.0 - 3.0	17.0 - 19.0	2.6	50	70	70
Strong muscle stimulation		0.02 - 2000	0.5 ms - 10 s	0	0.1 - 2000	70	70
Micro-stimulus current		0.02 - 40	0.5 ms - 10 s	0	20 - 2000	5	5
Universal therapy		0.02 - 2000	0.5 ms - 10 s		0.1 - 2000	70	70
Diphase fixe		-	-	63	100	70	70
Courtes périodes		-	-	47.25	50 / 100	70	70
Middle frequency current 8 kHz							
MF I / surged		-	-	0	-	140	140
MF II / sinus surged		-	-	0	-	140	140
MF III / 50 Hz		4.0	0.5 ms - 10 s	0	0.1 - 222.2	140	140
MF IV / 3 - 10 Hz		50 - 167	50 - 167	0	3.0 - 10	140	140
MF V / 10 - 30 Hz		16.5 - 50.0	16.5 - 50.0	0	10 - 30	140	140
MF VI / 30 - 60 Hz		8.3 - 16.0	8.3 - 16.0	0	30 - 60	140	140
MF VII / 100 - 200 Hz		4.0	1.0 - 6.0	0	100 - 200	140	140
High voltage currents							
HV I / 50 Hz		4.5	0.5 ms - 10 s	0	0.1 - 200	200	200
HV II / 3 - 10 Hz		4.5	95.5 - 325.5	0	3.0 - 10	200	200
HV III / 10 - 30 Hz		4.5	28.5 - 95.5	0	10 - 30	200	200
HV IV / 30 - 60 Hz		4.5	12.5 - 28.5	0	30 - 60	200	200
HV V / 100 - 200 Hz		4.5	0.5 - 5.5	0	100 - 200	200	200
Tens currents							
Tens I / 100 Hz		0.2	0.5 ms - 10 s	0	0.1 - 1428.6	100	100
Tens II / 3 - 10 Hz		0.2	100.0 - 330.0	0	3.0 - 10	100	100

1) In case of using the suction electrodes the maximum current is reduced to 20 mA.

Table of currents (2)



Current	Grafics	Pulse duration T in ms	Pause duration R in ms	D.C. portion in %	Frequency in Hz	Maximum output voltage by CV in V_{peak}	Max. output current by CC in mA_{peak}
Tens III / 10 – 30 Hz		0.2	33.0 - 100.0	0	10 - 30	100	100
Tens IV / 30 – 60 Hz		0.2	17.0 - 33.0	0	30 - 60	100	100
Tens V / 100 - 200 Hz		0.2	5.0 - 10.0	0	100 - 200	100	100
Tens Burst currents							
Tens Burst I / 50 Hz		2.0	0.5 ms – 10 s	0	0.1 - 400	100	100
Tens Burst II / 3 – 10 Hz		2.0	98.0 - 328.0	0	3.0 - 10	100	100
Tens Burst III / 10 – 30 Hz		2.0	31.0 – 98.0	0	10 - 30	100	100
Tens Burst IV / 30 – 60 Hz		2.0	15.0 – 31.0	0	30 - 60	100	100
Tens Burst V / 100 - 200 Hz		2.0	3.0 – 8.0	0	100 - 200	100	100
Special currents							
Monophasé fixe MF		10	10	31.5	50	70	70
Longues périodes LP		-	-	46	50 / 100	70	70
Impulse galvanization IG 30		30.0	50.0	18	12.5	70	70
Impulse galvanization IG 50 / surged		50.0	70.0	0.3	8.3	70	70
Frequency modulation FM / 7 - 14 Hz		0.5	70.9 – 142.4	0.4	7 - 14	70	70
Incontinence		0.02 - 100	0.5 - 100	0	10 - 90	70	70
Interference currents₂₎							
Sedat 200 Hz		-	-	0	200	140	-
Myomot 50 Hz		-	-	0	50	140	-
Vegetat. Stim I 2.5 – 25 Hz		-	-	0	2.5 - 25	140	-
Vegetat. Stim II 10 Hz		-	-	0	10	140	-
Vegetat. Stim III 0.1 – 1 Hz		-	-	0	0.1 - 1	140	-
Universal 1 – 200 Hz		-	-	0	1 - 200	140	-
Sedat.Modulation 100 - 200 Hz		-	-	0	100 - 200	140	-

2) The output current is reduced to 100 mA.

SONODYNATOR 934



SONODYNATOR® 934 For Stimulation- Current therapy and ultrasound as well as combination therapy

Combination therapy with both Stimulation-Current and ultrasound combines the analgesic and hyperemic effects of Stimulation-Current with the mechanical and thermal effects of ultrasound. Experience in practice has shown that the combination of the two physical-therapeutic effects is excellently suited for the diagnostics and treatment of pain of the locomotor system and the peripheral nerves. Endogenous heat, micro-massaging and ion shifting provide outstanding therapeutic benefits after just a short period of therapy. It is also frequently used to complement high-frequency heat therapy and drug therapy with circulatory disturbance and rheumatic-inflammatory processes.

- Combination therapy – Stimulation-Current in combination with ultrasound
- Ultrasound therapy with continuous waves or pulsed waves at 875 kHz
- Output of up to 2.5 W/cm²
- Waterproof sound heads for under-water treatment
- Sound heads can be replaced without the need to readjust the device
- Coupling display on the sound head
- Choice of two sound heads available, with 4 cm² and 1cm² effective surface

Treatment time	max. 40minutes
Intensity	see table below
Power supply	110/120/230/240V, 50/60Hz
Power consumption	max. 230 VA
Class of protection	I (IEC601/VDE 0750)
Degree of protection	BF (IEC 601/VDE 0750)
Class of equipment	IIa acc to MDD
Dimensions	410 X 150 x 480 mm (WxHxD)
Weight	max 17 kg
Warranty period	24 months

Subject to technical changes
without prior notice.

- Complete range of current waveforms
- User-adjustable current waveforms in all parameters
- Large program memory
- Large full-graphics display
- Application menu with electrode placement aids

SONODYNATOR® 934
offers the following as
options:

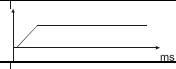
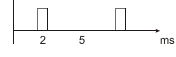
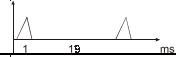
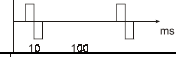

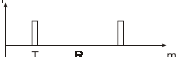
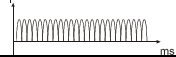
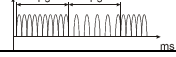
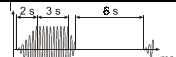
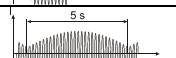
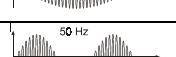
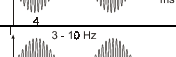
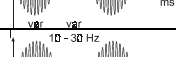
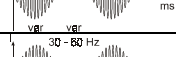
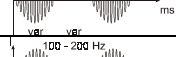
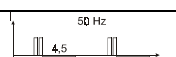
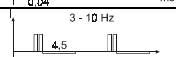
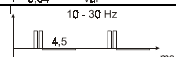
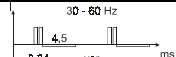
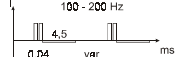
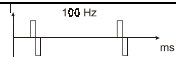
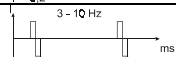
- Integrated suction application module with suction massage

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Table of currents (1)



Current	Grafics	Pulse duration T in ms	Pause duration R in ms	D.C. portion in %	Frequency in Hz	Maximum output voltage by CV in V_{peak}	Max. output current by CC in mA_{peak}
Galvanic current		-	-	100	0	70	70 ¹⁾
Ultrastimulation current		2.0	5.0	28.6	143	70	70
Faradic current		1.0 - 3.0	17.0 - 19.0	2.6	50	70	70
Strong muscle stimulation		0.02 - 2000	0.5 ms - 10 s	0	0.1 - 2000	70	70
Micro-stimulus current		0.02 - 40	0.5 ms - 10 s	0	20 - 2000	5	5
Universal therapy		0.02 - 2000	0.5 ms - 10 s		0.1 - 2000	70	70
Diphase fixe		-	-	63	100	70	70
Courtes périodes		-	-	47.25	50 / 100	70	70
Middle frequency current 8 kHz							
MF I / surged		-	-	0	-	140	140
MF II / sinus surged		-	-	0	-	140	140
MF III / 50 Hz		4.0	0.5 ms - 10 s	0	0.1 - 222.2	140	140
MF IV / 3 - 10 Hz		50 - 167	50 - 167	0	3.0 - 10	140	140
MF V / 10 - 30 Hz		16.5 - 50.0	16.5 - 50.0	0	10 - 30	140	140
MF VI / 30 - 60 Hz		8.3 - 16.0	8.3 - 16.0	0	30 - 60	140	140
MF VII / 100 - 200 Hz		4.0	1.0 - 6.0	0	100 - 200	140	140
High voltage currents							
HV I / 50 Hz		4.5	0.5 ms - 10 s	0	0.1 - 200	200	200
HV II / 3 - 10 Hz		4.5	95.5 - 325.5	0	3.0 - 10	200	200
HV III / 10 - 30 Hz		4.5	28.5 - 95.5	0	10 - 30	200	200
HV IV / 30 - 60 Hz		4.5	12.5 - 28.5	0	30 - 60	200	200
HV V / 100 - 200 Hz		4.5	0.5 - 5.5	0	100 - 200	200	200
Tens currents							
Tens I / 100 Hz		0.2	0.5 ms - 10 s	0	0.1 - 1428.6	100	100
Tens II / 3 - 10 Hz		0.2	100.0 - 330.0	0	3.0 - 10	100	100

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Table of currents (2)



Current	Grafic	Pulse duration T in ms	Pause duration R in ms	D.C. portion in %	Frequency in Hz	Maximum output voltage by CV in V _{peak}	Max. output current by CC in mA _{peak}
Tens III / 10 - 30 Hz		0.2	33.0 - 100.0	0	10 - 30	100	100
Tens IV / 30 - 60 Hz		0.2	17.0 - 33.0	0	30 - 60	100	100
Tens V / 100 - 200 Hz		0.2	5.0 - 10.0	0	100 - 200	100	100
Tens Burst currents							
Tens Burst I / 50 Hz		2.0	0.5 ms – 10 s	0	0.1 - 400	100	100
Tens Burst II / 3 - 10 Hz		2.0	98.0 - 328.0	0	3.0 - 10	100	100
Tens Burst III / 10 - 30 Hz		2.0	31.0 – 98.0	0	10 - 30	100	100
Tens Burst IV / 30 - 60 Hz		2.0	15.0 – 31.0	0	30 - 60	100	100
Tens Burst V / 100 - 200 Hz		2.0	3.0 – 8.0	0	100 - 200	100	100
Special currents							
Monophasé fixe MF		10	10	31.5	50	70	70
Longues périodes LP		-	-	46	50 / 100	70	70
Impulse galvanization IG 30		30.0	50.0	18	12.5	70	70
Impulse galvanization IG 50 / surged		50.0	70.0	0.3	8.3	70	70
Frequency modulation FM / 7 - 14 Hz		0.5	70.9 – 142.4	0.4	7 - 14	70	70
Incontinence		0.02 - 100	0.5 - 100	0	10 - 90	70	70

¹⁾ In case of using the suction electrodes the maximum current is reduced to 20 mA.

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Universal-NEUROTON® 926



The high-end device for high-performance Stimulation-Current diagnosis and therapy

The Universal-NEUROTON® 926 is a universal Stimulation-Current device for electrodiagnosis and electrotherapy and for diverse research applications. With its extensive application possibilities the Universal-NEUROTON® 926 is predestined for use as a high-performance and convenient device in physiotherapy sections of hospitals, for electrodiagnosis examination units and for neurological consultants.

Comprehensive non-invasive electrodiagnosis of peripheral paralyses
Neuraldiagnostic examinations with galvanopalpation
Pelvic floor stimulation
Treatment of urinary and fecal incontinence

Universal-NEUROTON® 926 is particularly ideal for the following diagnosis applications:

Treatment time	max. 40minutes
Intensity	see table below
Power supply	110/120/230/240V, 50/60Hz
Power consumption	max. 230 VA
Class of protection	I (IEC601/VDE 0750)
Degree of protection	BF (IEC 601/VDE 0750)
Class of equipment	IIa acc to MDD
Dimensions	410 X 150 x 480 mm (WxHxD)
Weight	max 17 kg
Warranty period	24 months

Subject to technical changes without prior notice.

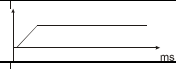
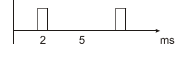
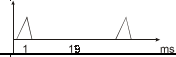
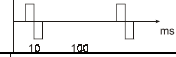

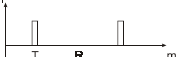
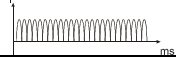
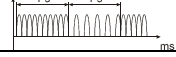
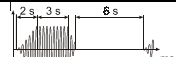
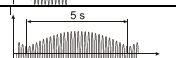
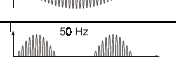
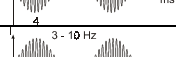
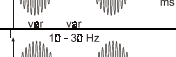
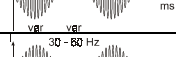
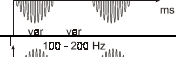
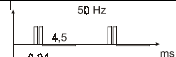
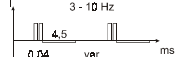

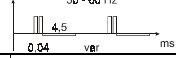
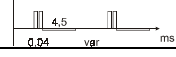
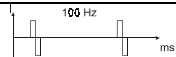
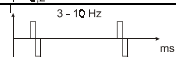
Qualitative and quantitative measurement of faradic excitability
Determination of rheobase, chronaxy and accommodation
MF-test in accordance with Dr. Lange
Recording of I/T curves (capable of numerical and graphic presentation in the display)

Universal-NEUROTON® 926 offers the following as options:

Integrated suction application module with suction massage
Integrated module for ultrasonic wave therapy with continuous or impulse sound waves and for the combination of electrotherapy and ultrasound therapy

Table of currents (1)



Current	Grafics	Pulse duration T in ms	Pause duration R in ms	D.C. portion in %	Frequency in Hz	Maximum output voltage by CV in V _{peak}	Max. output current by CC in mA _{peak}
Galvanic current		-	-	100	0	70	70 ₁₎
Ultrastimulation current		2.0	5.0	28.6	143	70	70
Faradic current		1.0 - 3.0	17.0 - 19.0	2.6	50	70	70
Strong muscle stimulation		0.02 - 2000	0.5 ms - 10 s	0	0.1 - 2000	70	70
Micro-stimulus current		0.02 - 40	0.5 ms - 10 s	0	20 - 2000	5	5
Universal therapy		0.02 - 2000	0.5 ms - 10 s		0.1 - 2000	70	70
Diphase fixe		-	-	63	100	70	70
Courtes périodes		-	-	47.25	50 / 100	70	70
Middle frequency current 8 kHz							
MF I / surged		-	-	0	-	140	140
MF II / sinus surged		-	-	0	-	140	140
MF III / 50 Hz		4.0	0.5 ms - 10 s	0	0.1 - 222.2	140	140
MF IV / 3 - 10 Hz		50 - 167	50 - 167	0	3.0 - 10	140	140
MF V / 10 - 30 Hz		16.5 - 50.0	16.5 - 50.0	0	10 - 30	140	140
MF VI / 30 - 60 Hz		8.3 - 16.0	8.3 - 16.0	0	30 - 60	140	140
MF VII / 100 - 200 Hz		4.0	1.0 - 6.0	0	100 - 200	140	140
High voltage currents							
HV I / 50 Hz		4.5	0.5 ms - 10 s	0	0.1 - 200	200	200
HV II / 3 - 10 Hz		4.5	95.5 - 325.5	0	3.0 - 10	200	200
HV III / 10 - 30 Hz		4.5	28.5 - 95.5	0	10 - 30	200	200
HV IV / 30 - 60 Hz		4.5	12.5 - 28.5	0	30 - 60	200	200
HV V / 100 - 200 Hz		4.5	0.5 - 5.5	0	100 - 200	200	200
Tens currents							
Tens I / 100 Hz		0.2	0.5 ms - 10 s	0	0.1 - 1428.6	100	100
Tens II / 3 - 10 Hz		0.2	100.0 - 330.0	0	3.0 - 10	100	100

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Table of currents (2)



Current	Grafic	Pulse duration T in ms	Pause duration R in ms	D.C. portion in %	Frequency in Hz	Maximum output voltage by CV in V _{peak}	Max. output current by CC in mA _{peak}
Tens III / 10 - 30 Hz		0.2	33.0 - 100.0	0	10 - 30	100	100
Tens IV / 30 - 60 Hz		0.2	17.0 - 33.0	0	30 - 60	100	100
Tens V / 100 - 200 Hz		0.2	5.0 - 10.0	0	100 - 200	100	100
Tens Burst currents							
Tens Burst I / 50 Hz		2.0	0.5 ms – 10 s	0	0.1 - 400	100	100
Tens Burst II / 3 - 10 Hz		2.0	98.0 - 328.0	0	3.0 - 10	100	100
Tens Burst III / 10 - 30 Hz		2.0	31.0 – 98.0	0	10 - 30	100	100
Tens Burst IV / 30 - 60 Hz		2.0	15.0 – 31.0	0	30 - 60	100	100
Tens Burst V / 100 - 200 Hz		2.0	3.0 – 8.0	0	100 - 200	100	100
Special currents							
Monophasé fixe MF		10	10	31.5	50	70	70
Longues périodes LP		-	-	46	50 / 100	70	70
Impulse galvanization IG 30		30.0	50.0	18	12.5	70	70
Impulse galvanization IG 50 / surged		50.0	70.0	0.3	8.3	70	70
Frequency modulation FM / 7 - 14 Hz		0.5	70.9 – 142.4	0.4	7 - 14	70	70
Incontinence		0.02 - 100	0.5 - 100	0	10 - 90	70	70
Diagnostic currents							
Rheobase		1000	2000	33	0.33		35
Chronaxy		0.02 - 2000	2000	-	0.2 – 0.5		70
Accommodability		1000	2000	16.5	0.33		70
I/T Curve Recording		1000	2000	max. 33	0.33		70
Faradic current		1	19	2.6	0.33		70
Universal Diagnosis		0.02 - 2000	0.5 ms – 10 s	max. 4.5	0.1 - 2000		70
Middle Frequency Test		300	-	0	-		70

1) In case of using the suction electrodes the maximum current is reduced to 20 mA.

Therapie-NEUROTON 927



Therapy NEUROTON® 927 **The complete high class stimulation-current therapy device**

The Therapy-NEUROTON® 927 is a universal therapy device for classical stimulation-current therapy applications. It comes with a complete range of therapy programs, with virtually all known current waveforms and therefore covers the entire spectrum of requirements of the experienced therapist.

- Complete range of current waveforms
- User-adjustable current waveforms in all parameters
- Large program memory
- Large full-graphics display
- Application menu with electrode placement aids

Treatment time	max. 40minutes
Intensity	see table below
Power supply	110/120/230/240V, 50/60Hz
Power consumption	max. 230 VA
Class of protection	I (IEC601/VDE 0750)
Degree of protection	BF (IEC 601/VDE 0750)
Class of equipment	IIa acc to MDD
Dimensions	410 X 150 x 480 mm (WxHxD)
Weight	max 17 kg
Warranty period	24 months

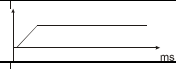
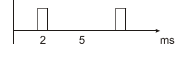
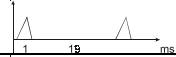
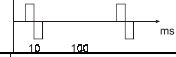

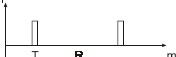
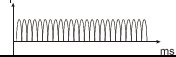
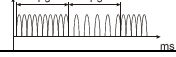
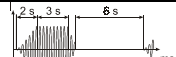
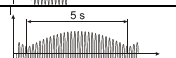
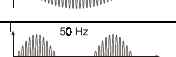
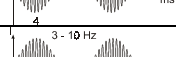
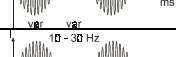
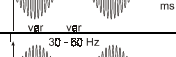
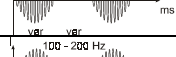
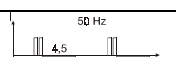
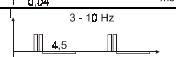
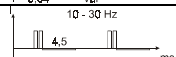
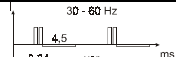
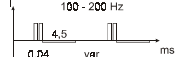
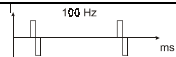
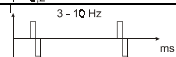
Subject to technical changes
without prior notice.

Therapy-NEUROTON® 927
offers the following as
options:

- Integrated suction
application module with
suction massage

Table of currents (1)



Current	Grafics	Pulse duration T in ms	Pause duration R in ms	D.C. portion in %	Frequency in Hz	Maximum output voltage by CV in V _{peak}	Max. output current by CC in mA _{peak}
Galvanic current		-	-	100	0	70	70 ¹⁾
Ultrastimulation current		2.0	5.0	28.6	143	70	70
Faradic current		1.0 - 3.0	17.0 - 19.0	2.6	50	70	70
Strong muscle stimulation		0.02 - 2000	0.5 ms - 10 s	0	0.1 - 2000	70	70
Micro-stimulus current		0.02 - 40	0.5 ms - 10 s	0	20 - 2000	5	5
Universal therapy		0.02 - 2000	0.5 ms - 10 s		0.1 - 2000	70	70
Diphase fixe		-	-	63	100	70	70
Courtes périodes		-	-	47.25	50 / 100	70	70
Middle frequency current 8 kHz							
MF I / surged		-	-	0	-	140	140
MF II / sinus surged		-	-	0	-	140	140
MF III / 50 Hz		4.0	0.5 ms - 10 s	0	0.1 - 222.2	140	140
MF IV / 3 - 10 Hz		50 - 167	50 - 167	0	3.0 - 10	140	140
MF V / 10 - 30 Hz		16.5 - 50.0	16.5 - 50.0	0	10 - 30	140	140
MF VI / 30 - 60 Hz		8.3 - 16.0	8.3 - 16.0	0	30 - 60	140	140
MF VII / 100 - 200 Hz		4.0	1.0 - 6.0	0	100 - 200	140	140
High voltage currents							
HV I / 50 Hz		4.5	0.5 ms - 10 s	0	0.1 - 200	200	200
HV II / 3 - 10 Hz		4.5	95.5 - 325.5	0	3.0 - 10	200	200
HV III / 10 - 30 Hz		4.5	28.5 - 95.5	0	10 - 30	200	200
HV IV / 30 - 60 Hz		4.5	12.5 - 28.5	0	30 - 60	200	200
HV V / 100 - 200 Hz		4.5	0.5 - 5.5	0	100 - 200	200	200
Tens currents							
Tens I / 100 Hz		0.2	0.5 ms - 10 s	0	0.1 - 1428.6	100	100
Tens II / 3 - 10 Hz		0.2	100.0 - 330.0	0	3.0 - 10	100	100

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Table of currents (2)



Current	Grafic	Pulse duration T in ms	Pause duration R in ms	D.C. portion in %	Frequency in Hz	Maximum output voltage by CV in V _{peak}	Max. output current by CC in mA _{peak}
Tens III / 10 - 30 Hz		0.2	33.0 - 100.0	0	10 - 30	100	100
Tens IV / 30 - 60 Hz		0.2	17.0 - 33.0	0	30 - 60	100	100
Tens V / 100 - 200 Hz		0.2	5.0 - 10.0	0	100 - 200	100	100
Tens Burst currents							
Tens Burst I / 50 Hz		2.0	0.5 ms - 10 s	0	0.1 - 400	100	100
Tens Burst II / 3 - 10 Hz		2.0	98.0 - 328.0	0	3.0 - 10	100	100
Tens Burst III / 10 - 30 Hz		2.0	31.0 - 98.0	0	10 - 30	100	100
Tens Burst IV / 30 - 60 Hz		2.0	15.0 - 31.0	0	30 - 60	100	100
Tens Burst V / 100 - 200 Hz		2.0	3.0 - 8.0	0	100 - 200	100	100
Special currents							
Monophasé fixe MF		10	10	31.5	50	70	70
Longues périodes LP		-	-	46	50 / 100	70	70
Impulse galvanization IG 30		30.0	50.0	18	12.5	70	70
Impulse galvanization IG 50 / surged		50.0	70.0	0.3	8.3	70	70
Frequency modulation FM / 7 - 14 Hz		0.5	70.9 - 142.4	0.4	7 - 14	70	70
Incontinence		0.02 - 100	0.5 - 100	0	10 - 90	70	70

¹⁾ In case of using the suction electrodes the maximum current is reduced to 20 mA.

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DUODYNATOR® 1049



DUODYNATOR® 1049

The universal therapeutic device for interferential and MF therapy.

Continued technical improvements led to the DUODYNATOR® 1049, with the focus on medium-frequency currents which are particularly pleasant and comfortable for patients. The DUODYNATOR® 1049 comes with four channels. It can therefore be used as:

- (a) an interferential device with two interference channels, where the desired stimulation effect is achieved by the transposition of two medium-frequency currents with different frequencies deep inside the tissue, or as:
- (b) a 4-channel MF-device, with which the user can treat the patient at two different points with a userselected current waveform and intensity, using the two totally independent channels.

Also you can use one interference channel and two MF channels at the same time.

Medical programs:

- Reha
- Mobilization
- Musclepump
- Trauma
- Lymphdrainage
- Edema
- Pain
- Universal

Wellness programs:

- Sport
- Elektro massage
- Shaking massage
- Lipolysis
- Fatburning
- Bodyshaping
- Cellulite

The most important advantages at a glance:

- 2 x 2 channel interference
- 4 independent channels for the treatment in four areas
- The carrier frequency is user-defined between 4 kHz and 12 kHz
- Easy operation: Treatment is selected from a menu offering different programs
- The programs are comprised of the complex sequences involved in individual therapies, each of which is coordinated with the rest
- Programs for classical medical applications and wellness applications
- Safety circuit to avoid voltage sensations caused by bad electrode placement
- No side effects

DUODYNATOR® 1049 can be combined with the NEOSERV® 1044 vacuum suction unit



Channels	4 independent channels for interference current or 2 channel MF current
Display	LCD
Operating frequencies	0,1 - 200 Hz
Carrier frequencies	4000 - 12000 Hz (2 kHz steps)
Timer	0 – 60 min
Supply voltage	115/230 V, 50/60 Hz
Power consumption	max 100 VA
Protection class	I/BF (IEC 601-1)
Equipment class	IIa (acc. to MDD)
Dimension	15,5 x 42 x 40,5 cm (H x W x D)
Weight	11 kg
Warranty	24 months

Subject to technical changes without prior notice.

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NEOSERV® 1044



NEOSERV® 1044

A save application aid for electrotherapy.

The NEOSERV® 1044 is a suctionwave therapy unit equipped for use with 2, 4, 6 or 8 suction electrodes, especially prepared for combination with DUODYNATOR® 1049.

In suction-wave massage therapy an adjustable vacuum - either continuous-type or pulse-type - is generated inside the suction electrodes by an electric pump.

The use of new technology inside the NEOSERV® permits suction-wave massage with up to 60 pulse per minute.

In the areas where the suction electrodes are applied, increased hyperaemia incurs. This has the desirable effect that tissue conductivity beneath the electrodes is improved.

However, sensitivity to the electric current is clearly masked by the pulsating sucking action of the electrodes - a fact that makes the device suitable for use also with patients who are extremely sensitive to electric currents.

The most important advantages at a glance:

- Easy and timesaving placement of the electrodes, without rubber bands and elastic bands
- Massages and aids blood circulation in the area of application
- Up to 8 suction electrodes can be connected
- Continuously adjustable vacuum
- Continuously adjustable suction cycle
- Particularly quiet thanks to the high-quality, pressure-regulated pump

Vacuum	Continuous adjustment of vacuum and suction cycle, controlled by microcontroller
Treatment time	Depending on the type of electrostimulation device used
max. vacuum:	400 mbar
Supply voltage	90 – 265 V, 50/60 Hz
Power consumption	max 60 VA
Protection class	I/BF (IEC 601-1)
Equipment class	IIa (acc. to MDD)
Dimensions	9 x 43 x 39 cm (H x W x D)
Weight	8,2 kg
Warranty	24 months

Subject to technical changes without prior notice.

The NEOSERV® 1044 can be combined with the interference unit DUODYNATOR® 1049.



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DUODYNATOR® 119



DUODYNATOR® 119

The compact and economic therapeutic device for interferential, MF- and LF therapy.

Continued technical improvements led to the DUODYNATOR® 119, with the focus on medium-frequency currents which are particularly pleasant and comfortable for patients. The DUODYNATOR® 119 comes with two channels. It can therefore be used as:

- (a) an interferential device, where the desired stimulation effect is achieved by the transposition of two medium-frequency currents with different frequencies deep inside the tissue, or as:
- (b) a 2-channel MF-device, with which the user can treat the patient at two different points with a userselected current waveform and intensity, using the two totally independent channels.
- (c) a low frequency unit with the classic currents of electrotherapy

For applications with medium frequency and interference you can select the following programs:

Medical programs:

Reha, Mobilization, Muscelpump, Trauma, Lymphdrainage, Edema, Pain, Universal

Wellness programs:

Sport, Elektro massage, Shaking massage, Lipolysis, Fatburning, Bodyshaping, Cellulite

For applications with low frequency and interference you can select the following classic currents:

DF, CP, MF, LP, IG30, IG50, GAL; FM, UR, F1, E100, E200, aS, aSL, Tens, Tens burst,

The most important advantages at a glance:

- 2 channel interference
- 2 independent channels for the treatment in two areas
- The carrier frequency is user-defined between 4 kHz and 12 kHz
- Easy operation: Treatment is selected from a menu offering different programs
- The programs are comprised of the complex sequences involved in individual therapies, each of which is coordinated with the rest
- Programs for classical medical applications and wellness applications
- Safety circuit to avoid voltage sensations caused by bad electrode placement
- No side effects

DUODYNATOR® 119 can be combined with the NEOSERV® 114 vacuum suction unit



Channels	2 independent channels for interference current or 2 channel MF current
Display	LCD
Operating frequencies	0,1 - 200 Hz
Carrier frequencies	4000 - 12000 Hz (2 kHz steps)
Timer	0 – 60 min
Supply voltage	115/230 V, 50/60 Hz
Power consumption	max 100 VA
Protection class	I/BF (IEC 601-1)
Equipment class	IIa (acc. to MDD)
Dimension	12 x 27,5 x 32 cm (H x W x L)
Weight	5 kg
Warranty	24 months

Subject to technical changes without prior notice.

NEOSERV® 114



NEOSERV® 114

A powerfull partner for electrotherapy.

The NEOSERV® 114 is a suctionwave therapy unit equipped for use with 2 or 4 suction electrodes, especially prepared for combination with DUODYNATOR® 119.

In suction-wave massage therapy an adjustable vacuum - either continuous-type or pulse-type - is generated inside the suction electrodes by an electric pump.

The use of new technology inside the NEOSERV® permits suction-wave massage with up to 60 pulse per minute.

In the areas where the suction electrodes are applied, increased hyperaemia incurs. This has the desirable effect that tissue conductivity beneath the electrodes is improved.

However, sensitivity to the electric current is clearly masked by the pulsating sucking action of the electrodes - a fact that makes the device suitable for use also with patients who are extremely sensitive to electric currents.

The most important advantages at a glance:

- Easy and timesaving placement of the electrodes, without rubber bands and elastic bands
- Massages and aids blood circulation in the area of application
- Up to 4 suction electrodes can be connected
- Continuously adjustable vacuum
- Continuously adjustable suction cycle
- Particularly quiet thanks to the high-quality, pressure-regulated pump

Vacuum	Continuous adjustment of vacuum and suction cycle, controlled by microcontroller
Treatment time	Depending on the type of electrostimulation device used
max. vacuum:	500 mbar
Supply voltage	90 – 265 V, 50/60 Hz
Power consumption	max 60 VA
Protection class	I/BF (IEC 601-1)
Equipment class	IIa (acc. to MDD)
Dimensions	9 x 33 x 26 cm (H x W x L)
Weight	6 kg
Warranty	24 months

Subject to technical changes without prior notice.

The NEOSERV® 114 can be combined with the interference unit DUODYNATOR® 119.



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NEUROTON[®] 125



The universal and economic electrotherapy

The NEUROTON[®] 125 is a compact and versatile electrostimulation device for treating muscle, skin and nervous diseases. By using a state-of-the-art microcontroller, it offers – despite its small size – a great variety of functions and capabilities. It is a device that is flexible, easy to handle, userfriendly and safe for the patient. What makes it still more attractive is the economy it provides to the user.

- pulsed galvanic current (IG 50)
- modulated Ultrastimulation current acc. to Träbert (MR)
- TENS
- swelling current (aS)
- swelling current (aSL)
- frequency modulation (FM)

The current waveform selected, along with current polarity, treatment time and the peak current value are indicated on a multifunction display unit. The background lighting with which the display unit is equipped ensures good readability at all times, whatever the viewing angle or type or quality of lighting.

In addition to low-frequency therapy, the NEUROTON[®] 125 may be used for all kinds of iontophoresis. In especial, this includes tapwater iontophoresis for treating hyperhidrosis. In contrast to other methods available, we have made sure that the NEUROTON[®] 125 provides an easy treatment that is free from any side effects.

Proceeding from the standard version of NEUROTON[®] 125 including the current waveforms

- galvanization (GALV)
- pulsed galvanic current (IG 30)
- Ultrastimulation current acc. to Träbert (UR)

Upon starting the treatment by pressing the start/stop button, the treatment current can be set to the desired value in steps of 0.5 resp. 1 mA. The treatment session may be interrupted or terminated at any time. Following termination of the session, the current waveform, current polarity and treatment time value may be reselected. In case a fault or malfunction occurs in the patient circuit, a safety device will disconnect the unit automatically from the supply.

Max. current intensity	35mA (all current waveforms)
Current setting	digital, adjustable in 0.5 mA steps (0–15mA)/in 1 mA steps (15–35 mA); controlled by micro-controller; constant-current-output
Treatment time	max. 60min
Power supply	115/230V, 50/60Hz
Power consumption	15VA
Class of protection	I (IEC 601/VDE 0750)
degree of protection	BF (IEC 601/VDE 0750)
Class of equipment	IIa acc to MDD
Dimensions	37 x 6,5 x 23 cm (WxHxD)
Weight	3 kg
Warranty period	24 months

Subject to technical changes without prior notice.

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SONOSTAT® 135



The versatile and powerful ultrasonic therapy

The SONOSTAT® 135 with its two frequencies, 1 MHz and 3 MHz, each of which has a different depth impact, offers a high degree of functionality and operating convenience for universal ultrasonic therapy. The ultrasound is applied to the patient by means of ergonomically designed and 100% watertight treatment heads with a size of either 2.5 cm² or 5 cm². The treatment head is made of high-quality titanium. In contrary to conventional aluminium heads, titanium is bioinert, i.e. 100% kindly to the skin, much more tough and therefore is much more durable and does not tarnish. Both treatment head sizes can be simultaneously connected to the unit.

Setting the treatment parameters is easy and time-saving, thanks to the user-friendly combination of pushbuttons. All controls are arranged on the control panels in a functional and self-explanatory manner.

The system offers several operating modes. In addition to continuous-wave operation (CW), there are also three pulsed modes available, with pulse duty factors of 1:5, 1:10 and 1:20. As an alternative to setting the treatment parameters manually each time, the user can either choose from a comprehensive indications menu or select from the preset treatment programs which can be created and stored in the in the system's memory on a customized basis.

All treatment parameters are indicated clearly on an easily legible graphic display. A compact housing design, high operator convenience and an optimum safety concept are further significant quality characteristics of the SONOSTAT® 135.

The desired treatment head can be activated by a mere touch on the respective button. Both treatment head types may be used for both frequencies. The required working frequency can be selected on the control panel by just pressing the respective button.

For an effective ultrasonic therapy, the treatment head must always be in sufficient contact with the patient's body. This is monitored optically by means of an LED that is integrated into the treatment head. In addition, an optional sounder can also be activated.



Intensity:	0 – 3 W/cm ² (1 MHz) 0 – 1,5 W/cm ² (3 MHz) continuously adjustable
Max. power output	15 W
Sound frequency	1 MHz or 3 MHz.
Treatment Heads	2.5 cm ² or 5 cm ² Same head for 1 and 3 MHz
Timer	0 – 30 min
Pulse Ratio	CW, 1:5, 1:10, 1:20
Power supply	90 – 265 V, 50/60 Hz
Class of protection	I (IEC601/VDE 0750)
Degree of protection	BF (IEC601) IP X1
Class of equipment	IIa MPG
Dimensions	32 x 11,7 x 27 cm (WxHxD)
Weight	3,5 kg
Warranty period	24 months

Subject to technical changes
without prior notice



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SONOSTAT[®] 133



The low-cost starter unit for Ultrasonic Therapy

The SONOSTAT 133 with its different frequencies (1 and 3 MHz) and easy handling is the ideal start into Ultrasonic Therapy.

The ultrasound is applied with ergonomically designed and 100% watertight treatment heads of 2.5 cm² or 5 cm². The treatment heads are made of high-quality titanium, which is bioinert in contrary to conventional aluminium heads, i.e. 100% friendly to the skin.

Furthermore, the heads are very robust, much more durable and non-tarnishing.

Both treatment head types may be used for both frequencies. The required working frequency can be selected on the control panel by just pressing the respective button.

For an effective ultrasonic therapy, the treatment head must always be in sufficient contact with the patient's body. This is monitored optically by means of an LED, integrated into the treatment head.

Setting the treatment parameters is easy and time-saving, thanks to the user-friendly combination of push buttons. All controls are arranged on the control panels in a functional and self-explanatory manner.

In addition to continuous-wave operation (CW), there are also three pulsed modes available, with pulse duty factors of 1:5, 1:10 and 1:20.

The treatment time can be adjusted by pushing buttons and is indicated on a 2-digit 7-segmental display.

A compact housing design, high operator convenience and an optimum safety concept are further significant quality characteristics of the SONOSTAT 133.

Intensity	0 - 3 W/cm ² (1 MHz) 0 - 1,5 W/cm ² (3 MHz)
Max. power output	15 W
Sound frequency	1 MHz or 3 MHz
Treatment heads	2,5 cm ² or 5 cm ² same Head for 1 and 3 MHz
Timer	1 - 30 min
Pulse ratio	CW, 1:5, 1:10, 1:20
Power supply	90 - 265 V, 50/60 Hz
Class of protection	I (IEC601/VDE 0750)
Type (application unit)	BF (IEC601)
Class of equipment	Ila acc. to MDD
Degree of protection	IP X1
Dimensions	37 x 6,5 x 23 cm (WxHxD)
Weight	3 kg
Warranty period	24 months

Subject to technical changes without prior notice.



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ULTRATHERM[®] 908



ULTRATHERM 908i is a high-performance therapeutic shortwave device for thermic and non-thermic applications in the high-frequency field.

This medical device has an impulse peak power of 400 W. With its continuous mode and output of 200 W, this device can also be used for hyperthermia. While the pulsed mode retains the positive deep heating effect, the effective output power is reduced, so that the patient experiences no sensation of heat.

The most important advantages at a glance:

- ⇒ High-performance high-frequency generator which meets therapeutic requirements
- ⇒ Microprocessor controlled operation
- ⇒ Continuous high-frequency performance with maximum deep-down effect with the distance from the electrodes to the skin being about 2 cm
- ⇒ Impulse mode for non-thermic therapy – the patient receives the greatest high-frequency effects during brief impulse times without feeling heat
- ⇒ Effective treatment over a wide range of adjustable high-frequency power, whereby all treatments can be performed without any noticeable heat sensation, up to a noticeably comfortable heat sensation, all the way to a still tolerable heat sensation
- ⇒ Easy application due to automatic tuning for a consistent effect in the continuous as well as in the impulse mode
- ⇒ The mode can be set by push buttons; corrections can be made at any time during therapy
- ⇒ Overload protection by means of an overload safety circuit
- ⇒ Diversified and durable accessories

HF nominal power	200 / 400 W (CW / Impulse)
Operating frequency	27,12 MHz $\pm 0.6\%$
Supply voltage	115/230 V, 50/60 Hz
Power consumption	700 VA
Protection class	I/BF (IEC 601-1)
MDD device class	IIb
Dimension	850 x 380 x 390 mm ³ (H x D x W)
Weight	45 kg
Warranty	24 months

Subject to technical changes without prior notice.

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RADIO THERM[®] 1006



The safe and efficient microwave therapy

The RADIO THERM[®] 1006 provides you with a powerful microwave therapy unit with a proven record of reliability in everyday practice over many years. This is why this unit has come to be a standard therapy device for physicians and physiotherapists.

The microwave energy is transferred to the tissue with the help of a radiator and is then converted into heat. Depending on the type of treatment, the user can choose between different types of radiator: large-area, medium-size or point-type. A freely adjustable swivel arm is provided to focus the radiator on the body part to be treated.

All elements needed for operating the unit are arranged on the top panel in a straight-forward manner. Output power is indicated via digital display, respectively. Treatment time is set digital by buttons (value between 1 and 20 minutes). Upon termination of the treatment session the power is automatically switched off and an optical and acoustic signal indicates that the treatment has been ended.

In addition to continuous operation, the RADIO THERM[®] 1006 also provides two different types of pulse operation. These latter modes are specially suitable for effective treatment of the deeper tissue layers while keeping the thermal stress low on the surface. Thus gbo microwave therapy devices can be used across a broad range of applications. This versatility makes them ideal for use in hospitals as well as in doctors' and physiotherapists' practices.

To ensure maximum patient protection, the power will be cut off automatically if malfunction occurs in the radiator or coaxial cable. Malfunctions are also indicated optically on the RADIO THERM[®] 1006's operator panel.

HF rated output	200 / 600 W (CW / pulse)
Operating frequency	2,45 GHz \pm 50 MHz
Treatment time	0 - 20 min. (1 min steps)
Power supply	115/230 V, 50/60 Hz
Power input	690 VA
Class/degree of prot.	I/BF (IEC 601-1)
Class of equipment	IIa MPG
Dimensions	420 x 970 x 405 mm (B x H x T)
Weight	43 kg
Warranty period	24 Months

Subject to technical modifications without prior notice.



Accessories:
Circular, trough-type and focus radiator, coaxial cable and microwave safety goggles.

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ULTRATHERM 1008



Short waves can be applied to both superficial and deeper tissue layers. Myopathies can be treated in the same manner as joint diseases and inaccessible organs (e.g. in urology, gynecology and ENT). Thus, the unit offers a wider and more comprehensive range of applications than any other physical therapy device, but - unlike drugs - without any side effects as long as the short waves are properly used.

The ULTRATHERM 1008 short-wave therapy unit sets new standards for its class. It still employs the ideal energy source, a high-performance vacuum tube, which allows both the capacitor (condensor field) and the coil (induction field) techniques to be used. To guarantee ease of use as well as convenient and efficient operation, the unit features a graphic display that not only guides the operator but also provides indication suggestions (incl. pictograms showing proper electrode application) and various program storage positions. A unique output power dosing function allows highly precise adjustment by means of the dynamic matching indicator and the heat-effective output power value that is constantly displayed, giving the user full visual control over the therapy.

The desk-type design of ULTRATHERM 1008 is even more compact and ergonomic than its predecessor, while it meets higher technical and safety demands.

The most important advantages at a glance:

- Uniform, highly effective output power both in continuous and pulsed modes, thanks to its high-performance vacuum tube. Continuously adjustable output power.
- Optional use of either the capacitor (condensor field) or coil (induction field) electrodes.
- Easy operator guidance by clear graphic display, program memory, indications menu including pictograms for electrode application.
- Matching and effective output power indication.
- Modular, safe and easy-to-service basic design.
- Space-saving, ergonomic design.



HF nominal power	400 / 1000 W (CW / Impulse)
Operating frequency	27,12 MHz $\pm 0,6\%$
Pulse duration	200 - 600 μ s
Pulse frequency	10 - 300 Hz
Power indication	Amplitude and effective power
Timer	0 - 60 min.
Supply voltage	115/230 V, 50/60 Hz
Power consumption	1800 VA
Protection class	I/BF (IEC 601-1)
Equipment class	IIb (acc. to MDD)
Dimension	420 x 970 x 405 mm (B x H x T)
Weight	60 kg
Warranty	24 months

Subject to technical changes without prior notice.

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BodyLaser



Laser shower LDU 3015B



Acupuncture pointer LAX 3020A

BodyLaser

A laser is a high-energy and highly concentrated source of light. Albert Einstein already theoretically formulated the principle in 1917, but it took until 1960 before scientists were technically able to construct the first laser device. Progress was subsequently extremely rapid, and meaningful applications were quickly developed, including those for medicinal fields. There is now absolutely no doubt in the biostimulatory effect of the laser. The principle of operation is now, considered to be scientifically proven.

BodyLaser - a system with future

Laser therapy using gbo devices achieves a therapeutical effect without chemicals, in a purely biological manner. In addition to the healing power of light, gbo also applies healing methods from the Far East such as acupuncture and acupressure. The principle of these therapies – which have already been used for millennia – remains unchanged, only the "tool" is different: the meridian points of the human body are stimulated using laser light and not using needles.

Laser shower LDU 3015B

Specially developed for treating large areas. Up to 3500 mm² can be irradiated using 14 simultaneously activated laser-diodes.

Its simple handling has made this device one of the most successful in the gbo range.

- Max. effective total diode power 140 mW (10 mW/laser diode)
- Wavelength 785 nm, other powers and wavelengths possible
- Four intensive ruby light diodes irradiate the treated surface
- Protection of laser diodes by special filter glass

Acupuncture pointer LAX 3020A

For the treatment of small surfaces, pain-, triggers-, and acupuncture points. Simply pointing the way and innovatively in the handling. A microprocessor controlled therapy laser with integrated point search mechanism.

- New measuring system for the optimal location of acupuncture points
- Digital and indicator of the measured values in very high resolution
- All functions selectable using one hand
- Digital therapy display
- CW (continuous wave) and multi-frequency modes
- Automatic switching-on with skin contact
- Option: fibers optic for autoclave sterilizer

The unit includes a case for Applicators.

Type	Semiconductor Laser
Laser class	3B
Wavelength	785 nm
Effective Power	
Shower 3015B	max. 14 x 10 mW
Pointer LAX 3020A	max. 20 mW
Peak Power	Effective Power x 2
Timer	digital 1 – 60 min
Supply voltage	95 - 265 V, 50/60 Hz
Power consumption	max 22 VA
Protection class	I/BF (IEC 601-1)
Equipment class	IIa (acc. to MDD)
Dimension	12 x 27,5 x 32 cm (H x W x L)
Weight	4 kg
Warranty	24 months

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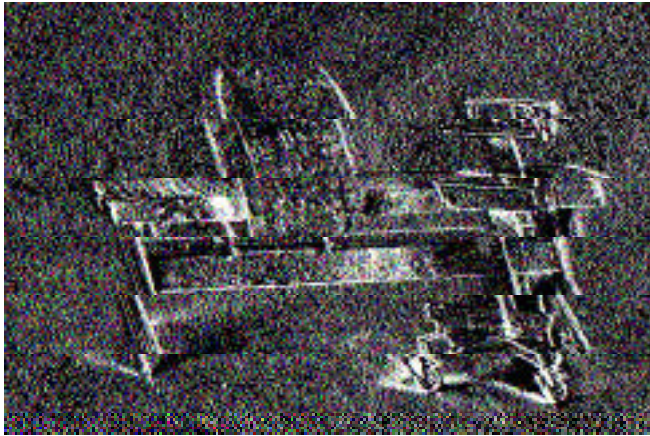
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BodyMag



The cart shown must be ordered separately.

Intensity magnetic field	1 – 10 mTesla
Diameter ring coil	65 cm
Therapy time	1 - 100 min
Frequency	1 – 100 Hz
Nominal voltage	230 V, 50 Hz
Power consumption	130 W with one coil 250 W with two coils
Protection class	I (IEC601/VDE 0750)
Protection degree	BF (IEC601)
Device class	IIa acc. to MDD
Dimensions	
bench	200 x 66 x 64 cm (LxHxW)
control device	32 x 12 x 27,5 cm (LxHxW)
Weight:	
bench including ring coil	26 kg
control device	5 kg
Warranty	24 months

Subject to technical changes
without prior notice.

BodyMag – the new dimension in the Magnetic Field Therapy

With positive pulsed magnetic field (PPM)

The use of magnetic fields to cure patients dates back several centuries. Also in the more modern form of the varying magnetic fields it can be referred to a 30-year-old history of experience. The healing effects of the magnetic fields are well proven and practically undisputed. The different results in the treatment may quite often be related to the characteristics of the Magnetic Field device used; this is not visible to the standard user. An essential topic here is the shape of the signals being produced in the application coils. Not only those frequencies given in the technical description are of importance but more over the question of whether these frequencies with their respective signal forms can be transformed inside the coils accordingly. In this respect the newly developed BodyMag represents a new dimension where - which is proven - clean magnetic field frequencies in sine form are produced.

Another essential innovation consists of the **PPM** technology. The **PPM** provides for the magnetic field to not swing in positive and negative direction, since this is not found in the human body either. The BodyMag has an effect on the patient exclusively with sine signals with positive eruptions. The negative half wave is eliminated by a special electronics.

The BodyMag is served very user-friendly about a high-resolution graphic display with touch screen. Here the user can select from 60 preprogrammed programs of treatment for 60 different indications. He can adapt these programs individually, as well as store additional 40 freely definable programs according to his need.

The BodyMag is very flexible with its two completely separated channels. Either two patients can be treated simultaneously or a single patient with different indications may be treated at different parts of the body at the same time. User errors by using an erroneously connected applicator are eliminated by the fact that the device automatically recognizes the respective applicator connected.

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CRYOCARE®



Cryotherapy is an established and trusted method which has been known for about 100 years now. Until today this method has normally involved procedures in which an applicator has been reduced to a very low temperature by diverse cooling agents before being applied to the patient. Due to the high operational costs involved and the difficulty of achieving reproducible results, because the cooling input cannot be dosed, these procedures have so far only been used by specialists. Those methods use a temperature of up to -190°C . If the temperature chosen is too high, scars can be induced. The new CRYOCARE® from gbo AG opens up a wide new field for safe and reliable treatment in CryoCosmetic applications. The skin indications are aging spots, pigmentary moles and hemangioma.

In CRYOCARE® the cold is generated electrically by a Peltier element and kept at a constant level of -32°C on the applicator tip.

The only operating costs are those for energy consumption. The technical side of the device is simple, clear and easily operated by the user.

Device for cryotherapy in dermatology and cosmetics.

The device guarantees a constant operating temperature of -32°C and thus makes the application of cold quick with exact dosing and localisation, with reproducible therapeutic results. The device works without cooling agent, i. e. without FCH and without connection to water.

The device is ready for operation after 5 minutes. The simple and safe handling saves time and allows delegation of the treatment.

Operating temperature	$-32^{\circ}\text{C} \pm 15\%$
Timer	0 – 99sec
Mains voltage	115/230 V, 50/60 Hz
Power consumption	max 200 VA
Class of protection	I (IEC 601)
Degree of protection	B (IEC 601)
Class of equipment	IIa acc. To MDD
Dimensions	470 x 180 x 410 mm (B x H x T)
Weight	13 kg
Warranty period	24 months

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Some practical examples prior and after cryotherapy:



warts



aging spots



akne



pigmentation



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SONOSTAT[®] 133



The low-cost starter unit for Ultrasonic Therapy

The SONOSTAT 133 with its different frequencies (1 and 3 MHz) and easy handling is the ideal start into Ultrasonic Therapy.

The ultrasound is applied with ergonomically designed and 100% watertight treatment heads of 2.5 cm² or 5 cm². The treatment heads are made of high-quality titanium, which is bioinert in contrary to conventional aluminium heads, i.e. 100% friendly to the skin.

Furthermore, the heads are very robust, much more durable and non-tarnishing.

Both treatment head types may be used for both frequencies. The required working frequency can be selected on the control panel by just pressing the respective button.

For an effective ultrasonic therapy, the treatment head must always be in sufficient contact with the patient's body. This is monitored optically by means of an LED, integrated into the treatment head.

Setting the treatment parameters is easy and time-saving, thanks to the user-friendly combination of push buttons. All controls are arranged on the control panels in a functional and self-explanatory manner.

In addition to continuous-wave operation (CW), there are also three pulsed modes available, with pulse duty factors of 1:5, 1:10 and 1:20.

The treatment time can be adjusted by pushing buttons and is indicated on a 2-digit 7-segmental display.

A compact housing design, high operator convenience and an optimum safety concept are further significant quality characteristics of the SONOSTAT 133.



Intensity	0 - 3 W/cm ² (1 MHz) 0 - 1,5 W/cm ² (3 MHz)
Max. power output	15 W
Sound frequency	1 MHz or 3 MHz
Treatment heads	2,5 cm ² or 5 cm ² same Head for 1 and 3 MHz
Timer	1 - 30 min
Pulse ratio	CW, 1:5, 1:10, 1:20
Power supply	90 - 265 V, 50/60 Hz
Class of protection	I (IEC601/VDE 0750)
Type (application unit)	BF (IEC601)
Class of equipment	Ila acc. to MDD
Degree of protection	IP X1
Dimensions	37 x 6,5 x 23 cm (WxHxD)
Weight	3 kg
Warranty period	24 months

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SONOSTAT® 135



The versatile and powerful ultrasonic therapy

The SONOSTAT® 135 with its two frequencies, 1 MHz and 3 MHz, each of which has a different depth impact, offers a high degree of functionality and operating convenience for universal ultrasonic therapy. The ultrasound is applied to the patient by means of ergonomically designed and 100% watertight treatment heads with a size of either 2.5 cm² or 5 cm². The treatment head is made of high-quality titanium. In contrary to conventional aluminium heads, titanium is bioinert, i.e. 100% kindly to the skin, much more tough and therefore is much more durable and does not tarnish. Both treatment head sizes can be simultaneously connected to the unit.

Setting the treatment parameters is easy and time-saving, thanks to the user-friendly combination of pushbuttons. All controls are arranged on the control panels in a functional and self-explanatory manner.

The system offers several operating modes. In addition to continuous-wave operation (CW), there are also three pulsed modes available, with pulse duty factors of 1:5, 1:10 and 1:20. As an alternative to setting the treatment parameters manually each time, the user can either choose from a comprehensive indications menu or select from the preset treatment programs which can be created and stored in the system's memory on a customized basis.

All treatment parameters are indicated clearly on an easily legible graphic display. A compact housing design, high operator convenience and an optimum safety concept are further significant quality characteristics of the SONOSTAT® 135.

The desired treatment head can be activated by a mere touch on the respective button. Both treatment head types may be used for both frequencies. The required working frequency can be selected on the control panel by just pressing the respective button.

For an effective ultrasonic therapy, the treatment head must always be in sufficient contact with the patient's body. This is monitored optically by means of an LED that is integrated into the treatment head. In addition, an optional sounder can also be activated.



Intensity:	0 – 3 W/cm ² (1 MHz) 0 – 1,5 W/cm ² (3 MHz) continuously adjustable
Max. power output	15 W
Sound frequency	1 MHz or 3 MHz.
Treatment Heads	2.5 cm ² or 5 cm ² Same head for 1 and 3 MHz
Timer	0 – 30 min
Pulse Ratio	CW, 1:5, 1:10, 1:20
Power supply	90 – 265 V, 50/60 Hz
Class of protection	I (IEC601/VDE 0750)
Degree of protection	BF (IEC601) IP X1
Class of equipment	IIa MPG
Dimensions	32 x 11,7 x 27 cm (WxHxD)
Weight	3,5 kg
Warranty period	24 months

Subject to technical changes
without prior notice

TESI[®] Comfotrac duo



Therapeutic effects of intermittent traction

- Increase in vascular and lymphatic circulation; stimulation of the breakdown of accretions, edemas and hematomas.
- Toning of muscles; combats tension and improves elasticity.
- Reduction in periarticular and articular adhesions and fibrous infiltrations.
- Removal of muscular spasms by creating a „physiological rest“.
- Stimulation of proprioceptive reflexes.

Therapeutic effects of heat

- Dilatation of the vascular system. Reflectorially also in the deep tissue layers.
- Relaxation of muscles.
- Reduction of muscle spasms and, in the process, relief of associated pains.
- Improved circulation and respiration. Sedative effect.

Therapeutic effects of massage and vibration

- Increased vascular and lymphatic circulation.
- Reduction of edemas, accretions and hematomas.
- Increase in tissue elasticity and in mobility.
- Increase in respiration.

- Increase in diuresis.
- Sedative effect on motor and sensitive nerves.
- Increase in breakdown of lactic acid in the muscles, combating the symptoms of exhaustion in the muscles; this can help towards improved fitness

Basic functions of all TESI[®] models

- Adjustable and regulated surface heating of the cover in the region of the back
- Comfortable 80 cm wide lying surface
- Vertebral massage with
 - > adjustable massage area
 - > adjustable pressure
 - > adjustable speed
 - > exchangeable rollers
- Massage vibration with adjustable BMS frequencies
- Music via radio-headphones from an integrated MP3-Player and chipcard (optional)
- All settings via a large, high-resolution LCD touchscreen
- Electrically adjustable stepped bed individual positioning of the legs
 - > simplest possible handling via the touchscreen display
 - > stepped bed positioning, accurate to the centimetre, subject to size of person
 - > improvement in effects of therapy

Max traction force	CW and intermitted
Lumbar spine	max. 600 N
Cervical spine	max 160 N
Massage:	
Vibration frequency	15 – 35 Hz
Heating temperature	max 35°C
Treatment timer	1 – 40 min

Power supply	wide input 90–130 & 180-264V 47 – 63 Hz
Class of equipment	IIa
Class of protection	I (IEC 601-1)
Degree of protection	B (IEC 601-1)
Dimensions	199 x 94 heigh with arm 170 cm
Weight	80 kg
Warranty period	24 month

Subject to technical changes without prior notice.

TESI[®] Relax



Therapeutic effects of heat

- Dilatation of the vascular system. Reflectively also in the deep tissue layers.
- Relaxation of muscles.
- Reduction of muscle spasms and, in the process, relief of associated pains.
- Improved circulation and respiration. Sedative effect.

Therapeutic effects of massage and vibration

- Increased vascular and lymphatic circulation.
- Reduction of edemas, accretions and hematomas.
- Increase in tissue elasticity and in mobility.
- Increase in respiration.
- Increase in diuresis.
- Sedative effect on motor and sensitive nerves.
- Increase in breakdown of lactic acid in the muscles, combating the symptoms of exhaustion in the muscles; this can help to improve fitness.

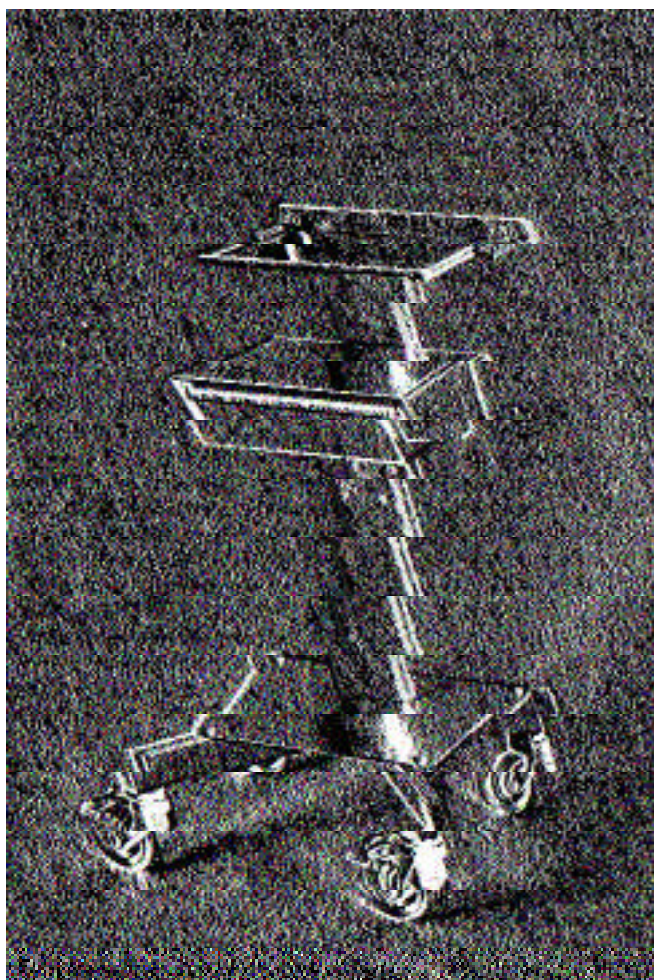
Basic functions of all TESI[®] models

- Adjustable and regulated surface heating of the cover in the region of the back
- Comfortable 80 cm width
- Vertebral massage with
 - > adjustable massage area
 - > adjustable pressure
 - > adjustable speed
 - > exchangeable rollers
- Massage vibration with adjustable BMS frequencies
- Music via radio-headphones from an integrated MP3-Player and chipcard (optional)
- All settings via a large, high-resolution LCD touchscreen
- Operable by remote control
- Access control by chipcard
- Electrically adjustable stepped bed, individual positioning of the legs
 - > simplest possible handling via the touchscreen display and a remote control
 - > stepped bed positioning, accurate to the centimetre, according to height
 - > improvement in effects of therapy

Massage:	
Vibration frequency	15 – 35 Hz
Heating temperature	max 35°C
Treatment timer	1 – 30 min
Power supply	wide input 90–130 & 180-264V 47 – 63 Hz
Class of equipment	IIa
Class of protection	I (IEC 601-1)
Degree of protection	B (IEC 601-1)
Dimensions	199 x 94 height with arm 170 cm
Weight	80 kg
Warranty period	24 month

Subject to technical changes without prior notice.

UNICAR® 1000



The new device cart UNICAR® 1000

Especially designed for all gbo devices.

The basic rack can be adapted with different device trays incl. drawer for every device.

On the high tray field electrodes and consumption material can be placed. On the sides you find hooks for cables and hoses. In addition, a small device can be placed on the upper tray.

The tray carrying the device can be assembled in different levels. Thus it is possible to adapt the tray to any combination of the devices.

e.g.: DUODYNATOR® 119 on top of NEOSERV® 114 placed on the lower tray with drawer and SONOSTAT® 133 placed on the upper tray.

With its 4 rolls the UNICAR® 1000 is a very sturdy device cart. In addition, the two rolls in the front can be locked.



Example of use:
HiToP® 184 and SONOSTAT® 135

Dimensions UNICAR 1000	
with large device tray	510 x 950 x 615 cm (BxHxT)
Dimensions UNICAR 1000	
with small device tray	510 x 950 x 520 cm (BxHxT)
Dimensions	
large device tray	430 x 140 x 440 cm (BxHxT)
Dimensions	
Small device tray	345 x 120 x 340 cm (BxHxT)
Weight	about 13 kg
Warranty period	24 months

Subject to technical
modifications without prior
notice.

Order Nr.:

Device cart basic rack	024-0-1000
Device cart basic rack with electr. distribution	024-0-1000E
Small device tray	024-0-0010
Large device tray	024-0-0020

Optional the device cart UNICAR® 1000 can be supplied with electric distribution. Only a cold device cable is necessary. Maximally 4 devices can be connected by means of cold devices-continuation and be switched with the help of a central switch.