

Interference Units and Accessories

Duodynator®
Neoserv®





Duodynator®

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

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

The most important advantages at a glance:

- 2 channel interference
- 2 independent channels for the treatment of two areas
- The carrier frequency is user-defined between 2,5 kHz and 10 kHz
- Easy operation: the 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

ONE TOUCH TO START

The new Duodynator® by gbo Medizintechnik AG has a large spectrum of therapies. At the same time the user interface is so clear, that it offers a maximum level of usability. With one single touch the user can select a therapy from his personal list of favorites. Simply turning the intensity regulator allows a real quick start. Additionally, the modern high-tech design with brushed aluminum surface and the 10" TFT LCD full color touchscreen monitor offers the doctor "that certain extra" to just having a technically sophisticated electrotherapy unit.

(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.

(b) a 2-channel MF-device, with which the user can treat the patient at two different points with a user selected current waveform and intensity, using the two totally independent channels.

(c) a low frequency unit with the classic currents of electrotherapy.

Duodynator® can be combined with the Neoserv® vacuum suction unit.



See next page for details of the currents.

Channels	2 independent channels for interference current or 2 channel MF current
Display	10.1" TFT LCD Touchscreen
Operating frequencies	0.1 - 200 Hz
Carrier frequencies	2.5/ 4/ 6/ 8/ 10kHz
Timer	1 – 60 min
Supply voltage	100-240 V, 50-60 Hz
Power consumption	max 65 VA
Class of protection	I
Degree of protection	BF
Class of equipment	Ila
Dimension	27 x 19.3 x 28 cm (W x H x D)
Weight	4,3 kg without accessories
Warranty	24 months

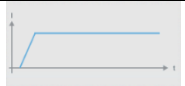



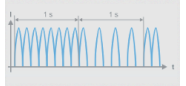
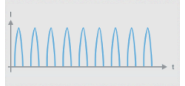
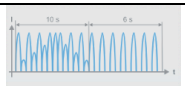


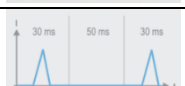




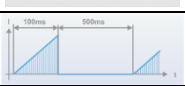



Subject to technical changes without prior notice.

Duodynator[®]

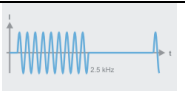
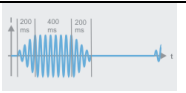
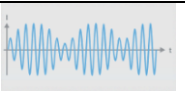
List of currents

Low frequency currents

All low frequency currents except Galvanic current are also available as metal- acceptable biphasic variant.

Galvanic current		Ultra Stimulation		Faradic current	
DF Diphase fixed		CP Courtes périodes		MF Monophasé fixed	
LP Longues périodes		MM Monophasé modules		RS Rythme syncope	
Impulse galvanization IG 30		Impulse galvanization IG 50		Frequency modulation FM / 7 - 14 Hz	
Surged current aS		Tens		E100	
Surged current aSL		Tens burst		E200	

Medium Frequency currents

Russian stimulation (Kots)		Gym Current		MF sinus-modulated	
-------------------------------	---	-------------	---	--------------------	---

The modulated medium frequency is available with the following programs:

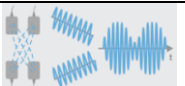
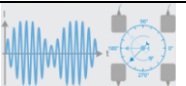
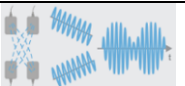
Medical programs:

rehab, mobilization, muscle pump, trauma, lymph drainage, edema, pain, universal, Russian stimulation

Wellness programs:

sports, electro massage, shaking massage, lipolysis, fat burning, body shaping, cellulite

Interference currents

Interference		Dipole vector		Isoplanar Vector	
--------------	---	---------------	---	------------------	---



Neoserv®

A powerfull partner for electrotherapy.

The Neoserv® is a suction wave therapy unit equipped for the use with 2 or 4 suction electrodes, especially prepared for the combination with our Duodynator®.

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 a new technology inside the Neoserv® permits a suction-wave massage.

In the areas where the suction electrodes are applied, increased hyperaemia incurs. This leads to 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	300 mbar
Supply voltage	100–240 V, 50-60 Hz
Power consumption	max 105 VA
Class of protection	I
Degree of protection	BF
Class of equipment	Ila
Dimensions	27 x 17.2 x 28 cm (W x H x D)
Weight	3.3 kg without accessories
Warranty	24 months
Subject to technical changes without prior notice.	

The Neoserv® has to be combined with the interference unit Duodynator®.



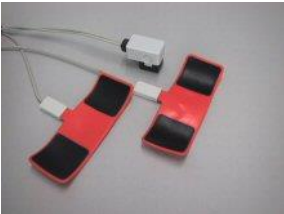


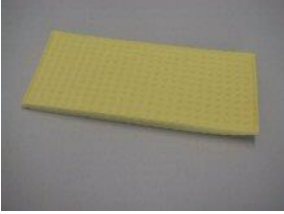



Accessories Duodynator®

	Part-No.	Specification	Use	Application	Remarks
	032-0-2010	Connection cable for DUO channel I + II			
	017-0-0047	Conductive rubber electrode 120 x 80 mm Set = 2 pcs			
	017-0-0046	Conductive rubber electrode 175 x 115 mm Set = 2 pcs			
	45-38-203 EH725	Viscose sponge pocket for conductive rubber electrode 120 x 80 mm, (10 pcs.)			
	020-453813	Viscose sponge pocket for conductive rubber electrode 175 x 115 mm, (2 pcs.)			
	011-0-0033	Elastic strap with Velcro-fastener, 70 cm long, 7.5 cm wide 2 pcs. blue			
	032-0-2020	Standard accessory set Duodynator			Consists of: Connection cable ,4 electrodes 120 x 80, 4 elastic straps, 10 sponge pockets






Accessories Duodynator®

	Part-No.	Specification	Use	Application	Remarks
	017-0-0062	Easy-Fix-Electrode 120 x 80 2 mm connector set = 2 pcs.		Fix with elastic strap 017-0-0059	
	017-0-0060	Easy-Fix-Electrode 80 x 60 2 mm connector set = 2 pcs.		Fix with elastic strap 017-0-0059	
	017-0-0063	Sponge for Easy-Fix-Electrode 120 x 80 Set = 10 pcs.			
	017-0-0061	Sponge for Easy-Fix-Electrode 80 x 60 Set = 10 pcs			
	017-0-0090	Elastic strap with Velcro-fastener, 60 cm long, 5 cm wide 4 pcs blue.	For Easy-Fix- Electrodes		
	014-0-0088	Hand piece electrode set consisting of electrode holder, disc electrode, ball electrode and sponges			Needs adaptor cable 017-0-0064
	017-0-0064	Adaptor cable	To connect electrodes with 4 mm connector to HiToP 2 mm system		





Accessories Duodynator®

	Part-No.	Specification	Use	Application	Remarks
	45-38-773 EH725	DUO-electrode pair, standard			
	45-38-781 EH725	DUO-electrode pair, small			
	45-38-310 EH725	Standard accessory kit DUODYNATOR			Electrode set, 10 pockets, 2 rubber straps small 135 cm, 2 rubber straps large 135 cm, 4 fixing buttons
	45-38-799 EH725	Electrode pocket, standard for DUO- electrode, (10 pcs.)			Moisten well
	45-38-807 EH725	Electrode pocket, small for DUO- electrode, (10 pcs.)			Moisten well
	026-0-3000	UNICAR® Device cart Basic rack			
	026-0-3030	Additional parts for Duodynator Consists of - Device holder - Electrode holder			

Accessories Neoserv®

	Part-No.	Specification	Use	Application	Remarks
	014-0-0050	Suction hose red for Neoserv	Connects unit with suction electrode		Only in connection with suction electrode 60 mm or 90 mm 014-0-0083 014-0-0084
	014-0-0053	Suction hose blue for Neoserv	Connects unit with suction electrode		Only in connection with suction electrode 60 mm or 90 mm 014-0-0083 014-0-0084
	032-0-2110	Standard accessory set Neoserv			Consists of: 2 x suction hose red, 2 x suction hose blue, 4 electrodes 60 mm, 4 sponges
	014-0-0026	Short circuit hose for NEOSERV	For use of 1 circuit only, seals the unused channel		
	014-0-0014	Connection cable Red with 2 mm plug for use of NEOSERV with SONOSTAT	For combination therapy, replaces the 2 nd suction hose		

Accessories Neoserv®

	Part-No.	Specification	Use	Application	Remarks
	014-0-0083	Suction electrode, diameter 60 mm with horizontal connection			
	014-0-0086	Electrode sponge diameter 60 mm (4 pieces) for suction electrode 014-0-0083			
	014-0-0084	Suction electrode, diameter 90 mm with horizontal connection			
	014-0-0087	Electrode sponge diameter 90 mm (4 pieces) for suction electrode 014-0-0084			

