SONOPULS 492 NEW MODEL



The top device of the 4 series is the Sonopuls 492. This complete unit ensures that you can apply ultrasound therapy, electrotherapy and combination therapy. You will have a solution for every disorder at your fingertips with both 1 MHz and 3 MHz ultrasound, with a small and/or a large ultrasound treatment head and with all modern and effective current types that are fully integrated!

The neatly arranged touch screen operating panel makes operation extremely easy and fast. All information that you may need is displayed in a very well-organised manner. Selecting the correct parameters is also easy. Thanks to the integrated evidence-based protocols, the best recommendations will be made. The graphic help screens that display localisations and anatomic representations guarantee the correct execution of the therapy.

The Sonopuls 492 can be used as a mobile device thanks to the battery (optional). In addition to using it with a mains power supply, the equipment can also be used in a clinic, next to the bed of a patient or at home. Thus the multifunctional Sonopuls 492 can also become your assistant wherever you may go.

The Sonopuls 492 can be expanded with the Vacotron 460 suction module. With this Vacotron, that can be integrated beautifully with the Sonopuls 492, you can easily position electrodes. A combination that will make your job even easier and faster to accomplish.

The Sonopuls 492: the complete, easy-to-use, fast and responsible choice for ultrasound therapy, electrotherapy and combination therapy!



ULTRASOUND THERAPY
Equipment for therapy using high frequency sound waves. The high frequency vibrations can cause a mechanical and thermal effect in the tissue. Ultrasound therapy promotes the body's capacity for selfhealing and tissue repair.

ELECTROTHERAPY
Equipment for pain management, muscle stimulation and/or diagnostics. Electrotherapy applications for fast pain relief without side effects. Muscles can be stimulated to improve the function of soft tissue. Electrotherapy can be used to measure differentiated tissue response to stimulation, to provide a diagnosis about tissue quality.

COMBINATION THERAPY
Equipment for electrotherapy and ultrasound therapy. This type of therapy can be applied side-by-side and at the same time, providing a very efficient therapy. Pain reduction in combination with ultrasound therapy provides rapid post-traumatic treatment, resulting in tissue repair in a minimum of time.

06-01-2014- Enraf-Nonius Electro

ENRAF-NONIUS

SONOPULS 492 NEW MODEL

1498913 SONOPULS 492 WITH 2 MULTI-FREQUENCY TREATMENT HEADS (5 CM² AND 0,8 CM²)



1498911 SONOPULS 492 WITH MULTI-FREQUENCY TREATMENT HEAD, LARGE (5 CM²)



1498912 SONOPULS 492 WITH MULTI-FREQUENCY TREATMENT HEAD, SMALL (0,8 CM²)



TECHNICAL SPECIFICATIONS

Power supply	100 – 240 V ± 10% / 50 / 60 Hz
Dimensions (WxDxH)	
Device	24 x 32 x 12 cm
Device with base	24 x 30.5 x 18.2 cm
Device with Vacotron	24 x 30.5 x 21.6 cm
Weight	2 kg
Weight, including the optional battery	3 kg

ULTRASOUND

Ultrasound frequencies	1 en 3 MHz
Ultrasound	continuous and pulsed
Duty cycles	5, 10, 20, 33, 50, 80%
Pulse frequency	16 Hz, 48 Hz en 100 Hz
Intensity	0-2 W/cm² continuous , 0-3 W/cm² pulsed(1)
Number of US connections	2
ERA US applicator large	5 cm²
ERA US applicator small	0,8 cm²
Pre-programmed treatment suggestions	25 - Evidence Based
Programmable positions	1000+

ELECTROTHERAPY

Current channels	2 (100% independent)
Current types	36 (per channel)
Pre-programmed treatment suggestions	42 - Evidence Based
Programmable positions	1000+

COMBINATIONTHERAPY

Pre-programmed treatment suggestions	2 - Evidence Based
Programmable positions	1000+

(1) = Except 80%, which has a maximum of 2,5 W/cm²

STANDARD ACCESSORIES SONOPULS 492

	1498757	4-Series Operating Instructions (cd rom)
	1498756	4-Series Information Booklet
	3444290	Mains cable 230V-EUR
	1498010	Device base (inclination support) (not for Vacotron 460)
	xxxxxxx	Ultrasound multi-frequency treatment head(s) (model dependent)
	xxxxxxx	Holder treatment head (model dependent)
	3442929(1)	Contact-gel, bottle 250 ml, 1x
	3444021	Strap 250x3 cm
	3444020	Strap 100x3 cm
2x	3444129	Rubber electrodes 6x8 cm, 2 mm female, set of 2 pcs.
	1460266	Moist pads for rubber electrodes 6x8 cm, set of 4 pcs.
2x	3444211	Patient cable 2-core & 2 mm male plugs - black, with coloured clips

(1) = The Sonopuls is delivered with 1 bottle of contact-gel. The article-number 3442929 however represents a box of 12 bottles.

ENRAF-NONIUS
P.O. Box 12080
3004 GB Rotterdam
The Netherlands
T.: +31-(0)10 - 203 06 00
E: info@enraf-nonius.nl
www.enraf-nonius.com

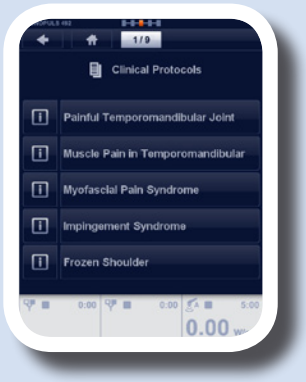
06-01-2014- Enraf-Nonius Electro

SONOPULS 492 NEW MODEL

EVIDENCE-BASED PROTOCOLS

- 25 Evidence-Based treatment protocols for ultrasound,
- 42 Evidence-Based protocols for electrotherapy,
- 2 Evidence-Based protocols for combination therapy

Complete including the display of the anatomic localisations and the treatment instructions







REMOTE CONTROL (OPTIONAL)

The patient can be involved in his or her own treatment by using the optional “remote control”. Especially when using electrotherapy, the patient will have the possibility to control the therapy

ERGONOMIC DESIGN

The treatment head is made to fit your hand comfortably. A design completely based on functionality and user friendliness.





BATTERY-OPERATED (OPTIONAL) AND, THEREFORE, MOBILE

In addition to being able to use the 4-series unit connected to a mains power supply, the device can also be used with a battery-operated power supply. This will ensure that you can go everywhere with your unit, regardless of whether this is at the patient’s home or at his or her hospital bed.

06-01-2014- Enraf-Nonius Electro

SONOPULS 492 NEW MODEL



CRYSTAL CLEAR TFT COLOUR SCREEN

A crystal clear, full colour and scratch resistant screen that allows full visibility on all parameters from all viewing angles.

MADE BY ENRAF-NONIUS

Made by Enraf-Nonius and, therefore, safe, reliable and durable. A device made by Enraf-Nonius, THE supplier for the physiotherapist worldwide. Where quality, reliability and durability come as standard.

ENRAF NONIUS

Partner for Life



TOUCH SCREEN USER INTERFACE

Easy to use by means of a clear menu via a touch screen interface. Extremely intuitive and as easy as a state-of-the-art smart phone.

COMPACT AND STYLISH

An extremely compact device, small and light-weight for easy transportation. At the same time stylish and beautiful, a device that is worth-while showing!





2 TREATMENT HEADS POSSIBLE

You can connect both the small 0,8 cm2 as well as the large 5 cm^2 ultrasound treatment head in order to quickly change heads.

06-01-2014- Enraf-Nonius Electro

SONOPULS 492 NEW MODEL

PROGRAMMED FOR SPEED

The menu structure is optimized to speed. In most cases you can start a pathology-specific treatment in just 3 steps! Easy, quick and simple.





CONTACT CONTROL

A 360 degrees light ring for contact control. A clear indication of the effective transfer of energy that enables you to conduct the therapy as efficient as possible.

A TREATMENT HEAD WITH ADDED VALUE

An intelligent and ergonomic treatment head, packed with electronics and covered with a special coating making it smooth and comfortable to use.





PROGRAMMABLE

In addition to the standard treatment protocols, you can also save your personal protocols (including sequential applications) based on your own guidelines.

06-01-2014- Enraf-Nonius Electro

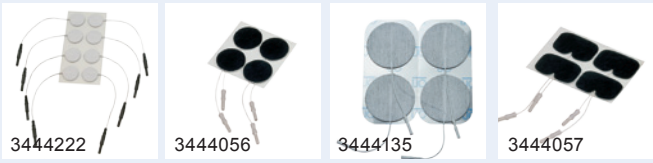
ACCESSORIES SONOPULS 492

ULTRASOUND ACCESSORIES	
ULTRASOUND CONTACT-GEL	
3442929	Contact-gel, bottle 250 ml, box of 12
3442930	Contact-gel, bottle 850 ml, box of 12
3442931	Contact-gel, canister of 5 l
3442932	Dispenser-set for 5 l canister





ELECTRODES AND MOIST PADS	
ADHESIVE ELECTRODES	
3444222	Adhesive electrodes Ø 2,2 cm, 2 mm female, 10 sheets of 8 (also for EMG)
3444056	EN-Trode Ø 3,2 cm, 2 mm female,10 sheets of 4
3444135	EN-Trode Ø 5,0 cm, 2 mm female, 10 sheets of 4
3444057	EN-Trode 5x5 cm, 2 mm female, 10 sheets of 4
3444058	EN-Trode 5x9 cm, 2 mm female, 10 sheets of 4
RUBBER ELECTRODES	
3444128	Rubber electrodes 4x6 cm, 2 mm female, set of 2.
3444129	Rubber electrodes 6x8 cm, 2 mm female, set of 2
3444130	Rubber electrodes 8x12 cm, 2 mm female, set of 2
MOIST PADS FOR RUBBER ELECTRODES	
1460273	Moist pads for rubber electrodes 4x6 cm, set of 4
1460266	Moist pads for rubber electrodes 6x8 cm, set of 4
1460275	Moist pads for rubber electrodes 8x12 cm, set of 4
FIXATION STRAPS	
3444020	Strap 100x3 cm
3444021	Strap 250x3 cm
3444022	Strap 100x5 cm
3444023	Strap 250x5 cm
POINT ELECTRODES	
1480800	Electrode holder for 1480801
1480801	Point electrode 5 mm, 4 mm female (in combination with adapters 2523523 / 2523524)
1460369	Point electrode, 17 mm, 4 mm female (in combination with adapters 2523523 / 2523524)













ADAPTERS	
2523524	Adapter plug, 2 mm female, 4 mm male, red
2523523	Adapter plug, 2 mm female, 4 mm male, black



06-01-2014- Enraf-Nonius Electro

ACCESSORIES SONOPULS 492

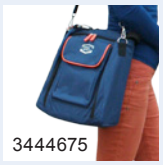
PATIENT CABLE	
3444211	Patient cable 2-core & 2 mm male plug - black, with coloured clips


3444211

REMOTE CONTROL	
1498800	Remote control, for 4-series


1498800

BAG	
3444675	Carrierbag 4-series


3444675

BATTERY	
2501016	Battery 12.0V 1.8AH


2501016

OTHER PRODUCTS THAT MIGHT INTEREST YOU

VACOTRON 460
The Sonopuls 492 can be extended with a vacuum module, the Vacotron 460. A vacuum unit for easy application of vacuum electrodes for combination therapy and electrotherapy.

EN-CAR U3
The EN-Car U3 is your companion for any piece of Enraf-Nonius equipment. For laser, ultrasound, biofeedback, shockwave or electrotherapy, with the EN-Car U3 you have it all close at hand.

ORDERING DATA
1498950 Vacotron 460
1468960 EN-Car U3

Also see the seperate product leaflets at
WWW.ENRAF-NONIUS.COM/ELECTROTHERAPY







06-01-2014- Enraf-Nonius Electro