

# SONOPULS 490

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Complete, easy-to-use, fast and safe device for ultrasound therapy

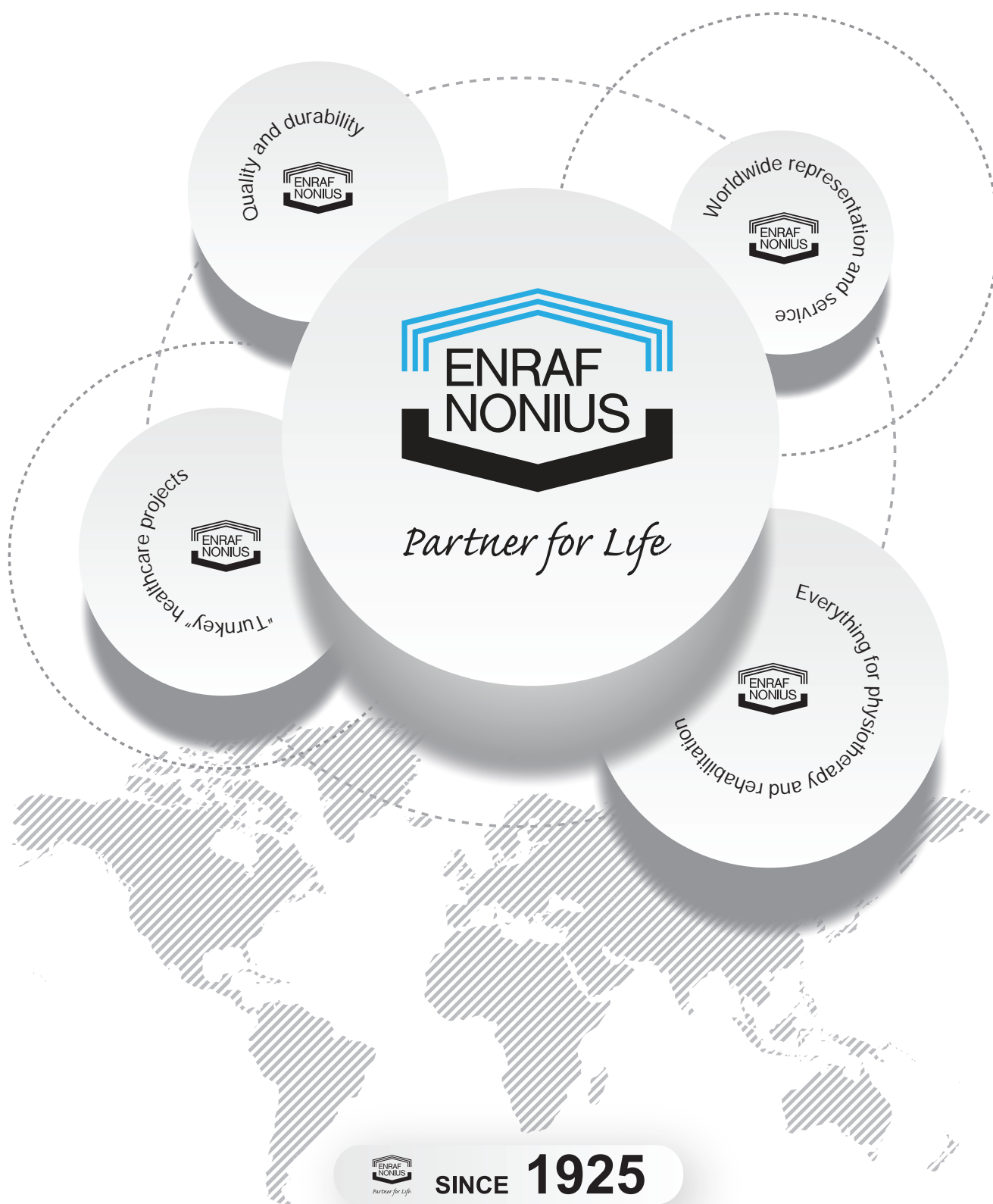


*Partner for Life*

# ENRAF-NONIUS

Enraf-Nonius is market leader in the world of physiotherapy and rehabilitation. We deliver products and services of the highest quality according to the most advanced techniques and make these products available world-wide via our comprehensive, international distributor's network. Founded in 1925 in The Netherlands, Enraf-Nonius has evolved to be a global player in the market of medical equipment and rehabilitation products. With long lasting relationships all over the world Enraf-Nonius truly is a Partner for Life.

By handling the highest possible level of quality and service, we enable health centers to look after their patients and clients in the most effective and efficient way, and therapists to guarantee their treatments on a daily basis. Enraf-Nonius contributes to a longer, healthier and happier life. Quality of life is our corporate social responsibility.



# SONOPULS 490 NEW MODEL



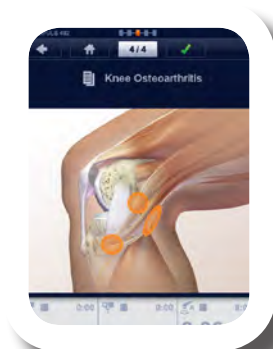
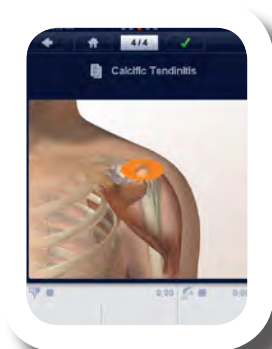
The Sonopuls 490 is the ultrasound therapy device from the Enraf-Nonius 4 series. You will be able to select the correct application for every pathology with both 1 MHz and 3 MHz applications and by selecting a small and/or large treatment head.

As is the case for all 4 series devices, the Sonopuls 490 is characterised by a beautiful design and a very easy-to-use touch screen operation. You will have configured the correct protocol with but a few taps.

The Sonopuls 490 has 25 evidence-based protocols for ultrasound therapy; all of which are substantiated applications that guarantee an effective therapy.

The Sonopuls 490 can (optionally) be provided with a battery-operated power supply, which will give you freedom. It is easy to take the Sonopuls 490 with you. The device will always be ready to use thanks to the battery-operated power supply. Regardless of whether it is next to the patient's bed, in the patient's home or in the changing room of a sports club, the Sonopuls 490 is your reliable companion where ultrasound therapy is concerned.

The Sonopuls 490: the complete, easy-to-use, fast and safe device for ultrasound 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.



# SONOPULS 490

## NEW MODEL

### 1498903 SONOPULS 490 WITH 2 MULTI-FREQUENCY TREATMENT HEADS (5 CM<sup>2</sup> AND 0,8 CM<sup>2</sup>)



### 1498901 SONOPULS 490 WITH MULTI-FREQUENCY TREATMENT HEAD, LARGE (5 CM<sup>2</sup>)



### 1498902 SONOPULS 490 WITH MULTI-FREQUENCY TREATMENT HEAD, SMALL (0,8 CM<sup>2</sup>)



#### 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/cm <sup>2</sup> continuous , 0-3 W/cm <sup>2</sup> pulsed <sup>(1)</sup>
Number of US connections	2
ERA US applicator large	5 cm <sup>2</sup>
ERA US applicator small	0,8 cm <sup>2</sup>
Pre-programmed treatment suggestions	25 - Evidence Based
Programmable positions	1000+

<sup>(1)</sup> = Except 80%, which has a maximum of 2,5 W/cm<sup>2</sup>



#### STANDARD ACCESSORIES SONOPULS 490

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 <sup>(1)</sup>	Contact-gel, bottle 250 ml, 1x

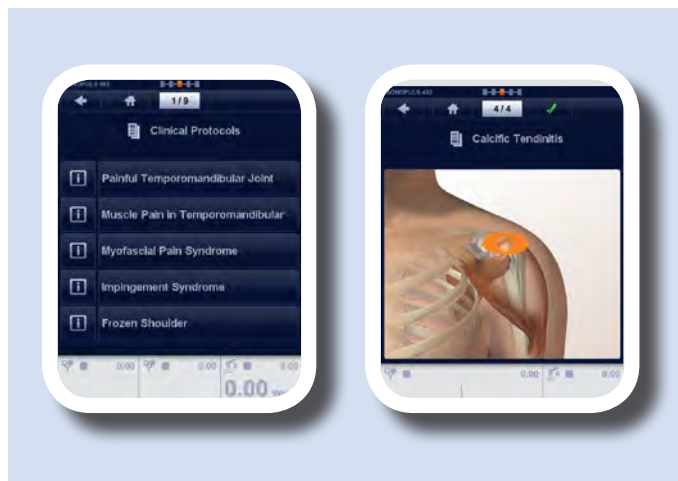
<sup>(1)</sup> = The Sonopuls is delivered with 1 bottle of contact-gel. The article-number 3442929 however represents a box of 12 bottles.

# SONOPULS 490

## NEW MODEL

### EVIDENCE-BASED PROTOCOLS

25 Evidence-Based treatment protocols for ultrasound. Complete including the display of the anatomic localisations and the treatment instructions



### 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.

### ERGONOMIC DESIGN

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



# SONOPULS 490

## 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.



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### 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 cm<sup>2</sup> as well as the large 5 cm<sup>2</sup> ultrasound treatment head in order to quickly change heads.







# SONOPULS 490

## 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.



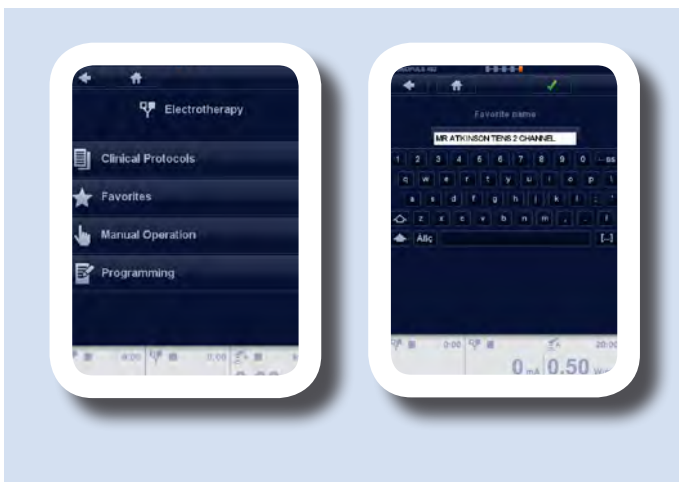
### A TREATMENT HEAD WITH ADDED VALUE

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.



# ACCESSORIES SONOPULS 490

## 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



## BAG

3444675	Carrierbag 4-series
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## BATTERY

2501016	Battery 12.0V 1.8AH
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2501016

## OTHER PRODUCTS THAT MIGHT INTEREST YOU

### 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

1468960 EN-Car U3

Also see the separate product leaflets at [WWW.ENRAF-NONIUS.COM/ELECTROTHERAPY](http://WWW.ENRAF-NONIUS.COM/ELECTROTHERAPY)





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