



## Sonopuls 490

Complete, easy-to-use, fast  
and the responsible choice  
for ultrasound therapy



# Sonopuls 490

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.



## Ultrasound therapy

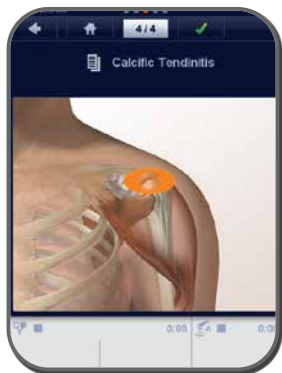
Equipment for therapy using high frequency sound waves. The high frequency vibrations can cause a mechanical and thermal effect in the tissue. Ultrasound therapy promotes the body's capacity for selfhealing and tissue repair.

## Sonopuls 490

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!



# Sonopuls 490

Sonopuls 490 devices are:

... standard equipped with 2 fully independent channels for ultrasound therapy

... including Dual Channel Ultrasound \*1 (simultaneous application of 2 ultrasound treatments)

... offering you various options for dynamic and/or static ultrasound therapy (StatUS™ therapy)



## Channel 1

US

US

(StatUS™) \*2

(StatUS™) \*2

## Channel 2

US

StatUS™

US

StatUS™

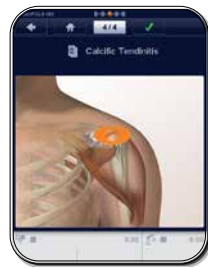
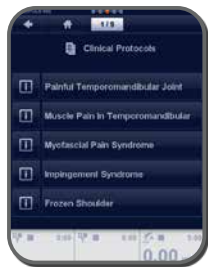
\*1 Requires StatUS™ Pack 400 or 2 ultrasound treatment heads connected.

\*2 Channel 2 is the appropriate channel for the connection of the StatUS™ Pack 400, and thus for offering static ultrasound (= StatUS™ therapy). However, the StatUS™ Pack 400 can also be connected to channel 1. This means that Dual Channel StatUS™ is permitted on both channels 1 and 2 (but keep in mind that the Sonopuls 490 is NOT primarily designed to stack 2 StatUS™ Packs 400).

# Sonopuls 490

## 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.

## 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.





## Sonopuls 490

### 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.

### 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

## 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.



# Sonopuls 490

## ORDERING DATA

1498901 Sonopuls 490 with multi-frequency treatment head, large (5 cm<sup>2</sup>)

### Standard accessories

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)

1630905 Ultrasound multi-frequency treatment head large (5 cm<sup>2</sup>)

1498011 Holder treatment head (model dependent)

3442929<sup>(1)</sup> Contact-gel, bottle 250 ml, 1x

### Optional accessory

1630915 Ultrasound multi-frequency treatment head small (0,8 cm<sup>2</sup>)



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

# Sonopuls 490

## 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
Multi-frequency treatment head large	5 cm <sup>2</sup>
Multi-frequency treatment head small	0,8 cm <sup>2</sup>
Pre-programmed treatment suggestions	25 - Evidence Based
Programmable positions	300

This is a medical device.

It complies with all applicable medical regulations. For more details please consult the instructions for use (downloadable via [www.enraf-nonus.com](http://www.enraf-nonus.com)).



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



# Sonopuls 490

## Ultrasound contact-gel

3442929 Contact-gel, bottle 250 ml, box of 12

3442931 Contact-gel, canister of 5 l

## Bag

3444675 Carrierbag 4-series

## Battery

2501016 Battery 12.0V 1.8AH



3442929



3442931



3444675



2501016

# ACCESSORIES





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