



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

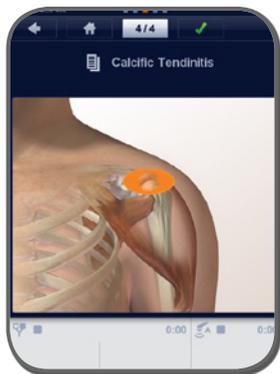
Equipment for therapy using high frequency sound waves. The high frequency vibrations can cause a mechanical and thermal effect in the tissue. Ultrasound therapy promotes the body's capacity for selfhealing and tissue repair.

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™

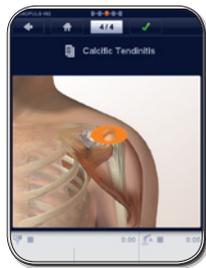
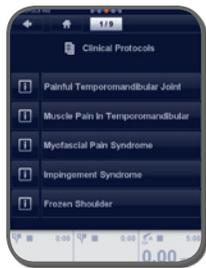
*¹ Requires StatUS™ Pack 400 or 2 ultrasound treatment heads connected.

*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).

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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 cm² as well as the large 5 cm² ultrasound treatment head in order to quickly change heads.



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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.



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ORDERING DATA

1498903 Sonopuls 490 with 2 multi-frequency treatment heads (5 cm² and 0,8 cm²)

1498901 Sonopuls 490 with multi-frequency treatment head, large (5 cm²)

1498902 Sonopuls 490 with multi-frequency treatment head, small (0,8 cm²)



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)
- xxxxxx Ultrasound multi-frequency treatment head(s) (model dependent)
- xxxxxx Holder treatment head (model dependent)
- 3442929⁽¹⁾ Contact-gel, bottle 250 ml, 1x

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



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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

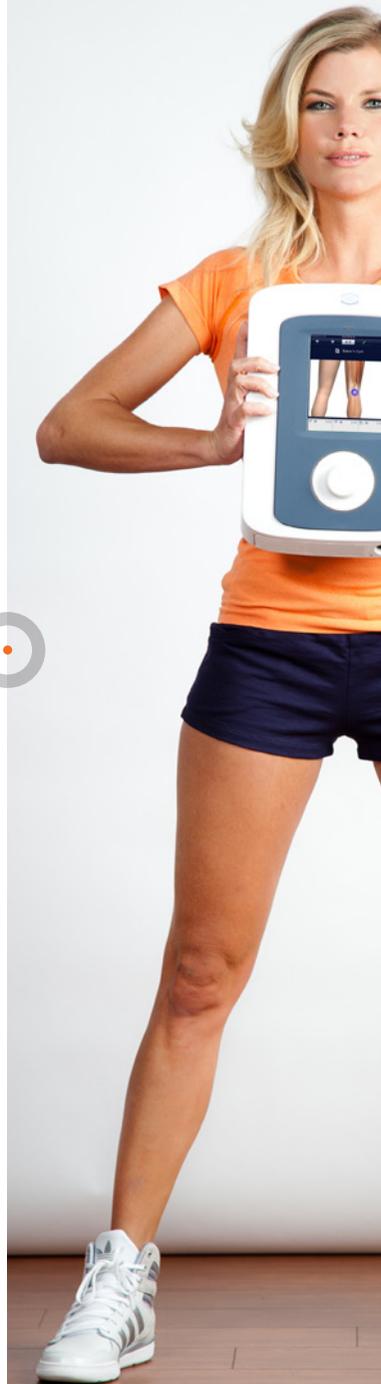
Ultrasound frequencies	1 en 3 MHz
Ultrasound	continuous and pulsed
Duty cycles	5, 10, 20, 33, 50, 80%
Pulse frequency	16 Hz, 48 Hz en 100 Hz
Intensity	0-2 W/cm ² continuous , 0-3 W/cm ² pulsed ⁽¹⁾
Number of US connections	2
Multi-frequency treatment head large	5 cm ²
Multi-frequency treatment head small	0,8 cm ²
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).



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



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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

Battery

- 2501016 Battery 12.0V 1.8AH



3442929



3442930



3442931



3442932



3444675



2501016





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