

# ENDOMED 182 FOR IFC & TENS



## ***Favourable priced professional*** device for Interferential Current (IFC) and TENS

The Endomed 182 is a mains-powered, 2-channel electrostimulator for pain management offering the following current wave forms:

- 2-pole Interferential Current (IFC)
- 4-pole/tetrapolar Interferential Current (IFC)
- 4-pole IFC with Isoplanar Vector
- Asymmetric Biphasic Pulsed Current (TENS)
- Burst TENS

### **Smart design, smart performance!**

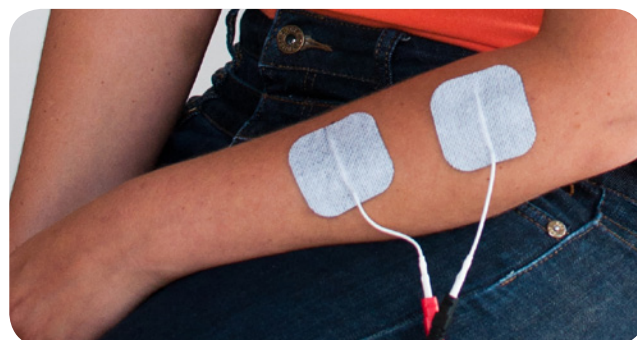
The Endomed 182 is the new generation of physical therapy devices. Its advanced software design is smart in its features, functions and usability. The result is a device that empowers therapists to offer extraordinarily versatile treatment options to patients, with an exceptionally clever way of operating the device.

### **2 independent channels**

Settings for 2-pole Interferential Current (2-pole) and TENS can be equally distributed through two channels (four electrodes), while the intensity of each channel can be individually adjusted.

### **Full color touch screen and graphic interface**

The Endomed 182 is equipped with a full colour touch screen and graphic user interface that provide the user with perfect control and a clear overview of the selected parameters during treatment.



# ENDOMED 182 FOR IFC & TENS



## 1634901 ENDOMED 182

for Interferential Current (IFC) and TENS



### STANDARD ACCESSORIES

1634750	CD-ROM with instructions for use (PDF on CD-ROM)
1634751	Information booklet Endomed 182
3444357	Power cord 250V/2.5 A, L=2.5 m, black
3444021	Strap 250x3 cm
3444020	Strap 100x3 cm
3444129	(2x) Rubber electrodes 6x8 cm, 2 mm female (2x set of 2)
1460266	Moist pads for rubber electrodes 6x8 cm, set of 4
3444211	(2x) Patient cable 2-core & 2 mm male plugs – black, with colour clips

## 1634902 ENDOMED 182

for Interferential Current (IFC) and TENS  
with an integrated vacuum module



### STANDARD ACCESSORIES

1634750	CD-ROM with instructions for use (PDF on CD-ROM)
1634751	Information booklet Endomed 182
3444357	Power cord 250V/2.5 A, L=2.5 m, black
3444021	Strap 250x3 cm
3444020	Strap 100x3 cm
3444129	(2x) Rubber electrodes 6x8 cm, 2 mm female (2x set of 2)
1460266	Moist pads for rubber electrodes 6x8 cm, set of 4
3444211	(2x) Patient cable 2-core & 2 mm male plugs – black, with colour clips
3444503	(2x) Vacuum electrodes Ø 60mm, set of 2
3444505	Sponges Ø 65 mm, set of 4 (for vacuum electrodes Ø60 mm)
3444507	(2x) Vacuum lead hose red
3444508	(2x) Vacuum lead hose black

### TECHNICAL SPECIFICATIONS

Mains voltage	100 - 240 Volt
Frequency	50/60 Hz
Max. power output	50 VA
Dimensions Endomed 182 1634901 (WxLxH)	14x16x14 cm
Weight Endomed 182 1634901	1460 gr
Dimensions Endomed 182 1634902 (WxLxH)	14x22.5x17.5 cm
Weight Endomed 182 1634902	2750 gr
Medical device classification	IIa

This equipment complies with all the requirements of the Medical Device Directive (93/42/EEC)

Channels	2
Output	Constant Current
Intensity	0 - 100 mA
Timer	0 - 60 min
Current wave forms	Interferential (IFC) and Biphasic Asymmetric Pulsed Current (TENS)
Pre-programmed clinical protocols:	16
Favourites	store up to 20 favourites

#### Interferential current

Carrier wave	4 kHz
AMF frequency	1 - 200 Hz
Modulation frequency	0 - 180 Hz
Modulation programs	1-1, 6-6, 1-30 sec

#### Asymmetrical biphasic pulsed current (TENS)

Pulse width	150 µs
Frequency	1 - 200 Hz
Modulation frequency	0 - 180 Hz
Burst frequency	1 Hz, 2 Hz, 4 Hz



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### OTHER PRODUCTS THAT MIGHT INTEREST YOU

#### EN-CAR U

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

#### ORDERING DATA

1468960 EN-Car U
1468932 Holder for remote control and vacuum-cups

Please also see the separate product leaflets at  
**WWW.ENRAF-NONIUS.COM**



# ENDOMED 182 FOR IFC & TENS

## Easy to use

The Endomed 182 is simple to use and a pleasure to navigate, thanks to Quick Access buttons and Smart buttons that guide you through the clinically correct functions of the device and each treatment.

## Store your favourites

In addition to manual mode, in which treatment parameters can be set and adjusted by the operator, all treatment parameters can be saved as favourites (personalised settings), thus offering a clear reference for future therapy sessions.

## Clinical protocol library

The Endomed 182 for IFC & TENS also offers 16 pre-set clinical protocols. The clinical library illustrates an array of pathologies and anatomical images, making it easier for you to communicate with patients about their condition and educate them on further treatment options, while ensuring a safe and effective treatment. All pre-programmed clinical protocols can be easily launched in just a few steps.

## Interferential with isoplanary vector

When selecting this function, the total area between the 4 electrodes is optimally stimulated and electrodes can be positioned quickly and easily. Isoplanar Interferential can be used for the treatment of disorders that involve a large treatment surface area of diffuse pain. Isoplanary Interferential is also used as a mild pre-treatment. After this application, the treatment session is continued with a focus on a smaller, more localised area.

**Smart in Design,**  
**Smart in Performance**

## Endomed 182 with integrated vacuum

The Endomed 182 can be equipped with an integrated vacuum module. The vacuum (suction) generated enables the therapist to easily position the stimulation electrodes on the patient and eliminates the use of fixation straps. Stimulation is applied by means of suction cups that have integrated electrode surfaces to transfer the electrostimulation onto the target tissue via moistened sponges.

## Versatile

With 2 available device models, electrostimulation can be applied through flexible rubber electrodes, self-adhesive electrodes and/or vacuum electrodes.

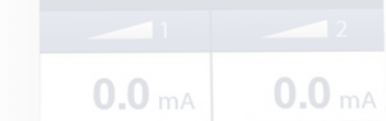
In short: the Endomed 182 for IFC & TENS:

- Are the most favourable priced professional devices for Interferential Current (IFC) and TENS
- Have 2 independent channels
- Are smart in terms of design and performance



# ENDOMED 182 FOR IFC & TENS

Most favourable priced  
**Professional** device  
for Interferential Current (IFC)  
& TENS



2 **independent** Channels



Smart **Design**



Smart **Performance**



# ACCESSORIES ENDOMED 182 FOR IFC & TENS

## ELECTRODES AND MOIST PADS

### ADHESIVE ELECTRODES

3444222	EN-Trode 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
3444380	Electrode TENS 5x5 cm

### 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

3444180	Point electrode (pen model), 5 mm Ø, 2 mm female, incl 10 conductive rubber caps
3444181	Silicon conductive caps (set of 10 pcs) for 3444180

### PATIENT CABLES

3444211	Patient cable 2-core & 2 mm male plug - black, with coloured clips
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### VACUUM ACCESSORIES

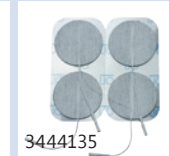
3444509	Vacuum electrodes Ø 30 mm, set of 2
3444503	Vacuum electrodes Ø 60 mm, set of 2
3444504	Vacuum electrodes Ø 90 mm, set of 2
3444516	Sponges Ø 30 mm, set of 4 (for vacuum electrodes Ø 30 mm)
3444505	Sponges Ø 65 mm, set of 4 (for vacuum electrodes Ø 60 mm)
3444506	Sponges Ø 95 mm, set of 4 (for vacuum electrodes Ø 90 mm)
3444507	Vacuum lead hose, red
3444508	Vacuum lead hose, black



3444222



3444056



3444135



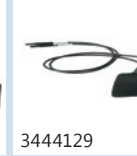
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3444058



3444128



3444129



3444130



3444380



1460273



1460266



1460275



3444020



3444021



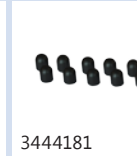
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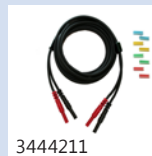
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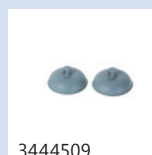
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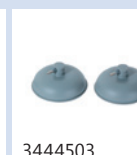
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3444211



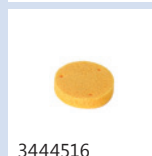
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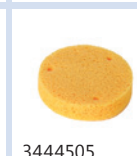
3444503



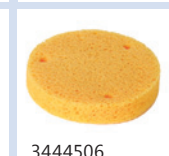
3444504



3444516



3444505



3444506



3444507



3444508



The Endomed 182 for percutaneous electrolysis therapy (PE) is a small unit exclusively <sup>(1)</sup> for various forms of PE (such as EPTE®) and EPI®)

Percutaneous electrolysis is a therapy applying small galvanic currents, highly localized with electrode needles and supervised by ultrasound scanning. Recent research has shown that this application has very positive effects on especially tendon and ligament disorders.

In EPTE® a low galvanic current is applied for 80 to 110 seconds with 0.3 mA - 2.5 mA. In EPI® a higher current is used in shorter intervals, that is 3 × 3 seconds with 3 mA. The Endomed 182 is a complete device for PE, it allows for all of these therapeutical methods!

#### About the device Endomed 182 for PE:

- EPTE® and EPI® in one device
- Easy to set intensity and duration
- Storage space for 20 presets
- Current intensity adjustable from 0 mA - 15 mA
- Duration adjustable from 0 sec - 300 sec
- MiliCoulomb (mC) counter - this makes the charge (the electrolytic effect) visible
- Very easy to operate by means of a full color touch screen
- Equipped with smart buttons that allow for quick adjustments
- Audio feedback
- Compact and lightweight

#### About the needle holder of the Endomed 182 for PE:

- Start / stop therapy button
- Simple, fast and safe needle grip mechanism
- Ergonomic design
- Comfortable grip



**Important:** For safety and effectiveness, product purchase is only allowed for physiotherapists with certification, for the professional use of percutaneous electrolysis therapy. They should have completed at least a training in percutaneous electrolysis, or an equivalent training. Galvanic currents can, by its nature, damage the tissue. So thorough background and application knowledge is important. That particular knowledge should cover dosing the galvanic current and the localisation of it with the aid of ultrasound.

<sup>(1)</sup> To be able to apply percutaneous electrolysis therapy, an ultrasound scanning device, electrode needles and application knowledge of percutaneous electrolysis therapy are indispensable. Enraf-Nonius only supplies the hardware to generate the galvanic current.

Endomed 182 for percutaneous electrolysis therapy (article number 1634903) generates galvanic currents only, not any other electrotherapeutical mode (like Interferential Current (IFC) or TENS).

# ENDOMED 182 FOR PERCUTANEOUS ELECTROLYSIS THERAPY



PARTNER FOR LIFE

## 1634903 ENDOMED 182

for percutaneous electrolysis therapy



### TECHNICAL SPECIFICATIONS

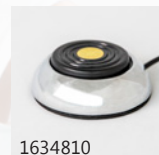
Mains voltage: 100-240V  
Frequency: 50/60 Hz  
Dimensions (WxLxH): 14.5 x 17 x 9 cm  
Weight: 710 grams  
Channels: 1  
Output: Constant Current  
Current intensity: 0-15 mA  
Duration: 0-300 sec  
Current form: galvanic  
Medical Device Classification: IIa  
CE mark for medical devices (MDD 93/42/EEC)

### STANDARD ACCESSORIES

- 1634750 CD-ROM with user manual (PDF on CD-ROM)
- 1634751 Information booklet Endomed 182
- 3444357 Power cord 250V / 2.5 A, L = 2.5 m, black
- 3444080 Electrode holder
- 3444582 Blank ground electrode
- 3444677 DC reference cable

### OPTIONAL ACCESSORIES

- 1634810 Foot switch



1634810



ENDOMED 182

