

Elexeo

The modular therapy platform

Technical datasheet



825.036 - V.100 - 2025 Elexeo Technical Datasheet EN © Gymna Uniphy
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Elaxeo is a modular platform based on a control unit that includes the touchscreen and the internal power supply and offers already one therapy application technique.

The Elaxeo modular platform allows the control unit to be expanded with additional Elaxeo modules, which can be easily stacked and connected via an innovative plug-and-play system.

Choose your desired control unit

Elaxeo ET control unit



Elaxeo control unit for neuromodulation and neurostimulation with TENS, NMES and microcurrents.

The 2-channel unit offers all other regular current forms and programs for muscle nerve assessment.

- Control unit supplies power to all connected Elaxeo modules in a modular setup.
- Operate all Elaxeo modules via the control unit's high-quality 10-inch capacitive touchscreen.
- Compatible with all Elaxeo modules.

Elaxeo US control unit

with small and large ultrasound head



Elaxeo control unit for therapeutic ultrasound.

The control unit offers 2 independent ultrasound channels (allows simultaneous therapy).

Offers conventional ultrasound as well as LIUS and LIPUS.

- Control unit supplies power to all connected Elaxeo modules in a modular setup.
- Operate all Elaxeo modules via the control unit's high-quality 10-inch capacitive touchscreen.
- The large and small ultrasound head are supplied as standard.
- Not compatible with the Elaxeo ultrasound module (378350).

Extend Ellexeo with other application modules

Ellexeo ET module



Ellexeo module for neuromodulation and neurostimulation with TENS, NMES and microcurrents.

The 2-channel module offers all other regular current forms and programs for muscle nerve assessment.

- Powered and operation via one of the Ellexeo control units.
- Combine with Ellexeo ET control unit for neuromodulation for 4-channel operation.

Ellexeo US module with large ultrasound head



Ellexeo module for therapeutic ultrasound. The module offers 2 independent ultrasound channels (allows simultaneous therapy).

Offers conventional ultrasound as well as LIUS and LIPUS.

- Powered and operation via Ellexeo ET control unit for neuromodulation.
- The large ultrasound head is supplied as standard.
- The small ultrasound head is optional.
- Not compatible with Ellexeo US control unit (378300).

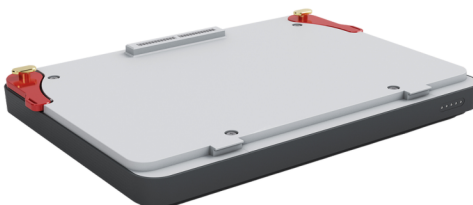
Ellexeo Vaco module



Ellexeo module for applications using vacuum therapy.

- The Vaco module offers 2 independent channels.
- Operates only in combination with Ellexeo ET control unit or Ellexeo ET module.
- The vacuum rhythm parameter contributes to enhanced patient comfort.

Ellexeo Battery module



Ellexeo battery module for use of the Ellexeo modular setup without connecting to the mains power.

- Device will continue to run on battery power when mains power is disconnected.
- Allows to use Ellexeo on all locations.



One platform.

Unlimited therapy possibilities.

Large ultrasound head

Small ultrasound head



Large ultrasound head including holder.

Intelligent monitoring of therapy effectiveness by:

- Contact control detection
- DynamUS
- Suited for underwater use



Small ultrasound head including holder.

Intelligent monitoring of therapy effectiveness by:

- Contact control detection
- DynamUS
- Suited for underwater use

Gymna Mobile Fit

The dedicated trolley for your Elexeo, Ultrasound compact and Acure devices



- Developed with a lot of attention to cable management
- The included drawer, vacuum suction cup, and cable holders make the Gymna Mobile Fit exceptionally functional.
- Equipped with four self-locking swivel casters, two of which have brakes.
- This compact, safe, and stable cart is easy to clean and disinfect.
- The Gymna Mobile Fit is delivered ready to use.

Optional:

- Handpiece holder support for ultrasound head
- Additional drawer



Elexo Combi

Predefined configurations

Elexo Combi



consists of:

- Elexo ET control
- Elexo US module

Elexo Combi V



consists of:

- Elexo ET control
- Elexo US module
- Elexo Vaco module



Elexo Combi ViP

consists of:

- Elexo ET control
- Elexo US module
- Elexo Vaco module
- Elexo Mobile Fit
- Handpiece holder support

Guided Therapy Selection

 **GTS** Select the most optimal treatment protocol

The number of treatment protocols depends on the application techniques supported by your customized Elexeo configuration.

In a configuration that includes both electrotherapy and ultrasound therapy, the option of combination therapy becomes available, resulting in a more extensive list of protocol suggestions.

The table below shows the number of available treatment protocols for each individual therapy technique.

The suggested pre-programmed protocols are supported with clinical guidelines and therapy recommendations.

Home Menu	Electro-therapy	Ultrasound therapy	Combination therapy
Default therapy	Conventional : 34 Iontophoresis : 18	Conventional : 1 Low Power : 2 Phonophoresis : 1	Conventional : 18
Objectives	Conventional : 52 Sequential : 73 Iontophoresis : 16	Conventional : 15 Low Power : 1	
Applications	Conventional : 137 Iontophoresis : 33	Conventional : 22 Low Power : 1	Conventional : 14
Body Area	Conventional : 127 Iontophoresis : 10	Conventional : 22	Conventional : 14
Cellular Effects	Conventional : 16		
Muscle - Nerve conditions	Pain points : 4 Sequential : 5		Pain points : 2

 **GTS** offers additional functionalities such as:

Personal Protocols	:	Max. 500	(both conventional as sequential)
Anatomical Library	:	91 musculoskeletal body locations	
Video Library	:	Access to "How to" videos to correctly inform users	
Placement Pictures	:	US head / Electrode placement pictures	
Clinical information	:	Clinical guidelines of selected applications	
Technical information	:	Technical information of parameters, application (wave) forms	

Article numbers

Elexo

Elexo units, modules, configurations

Elexo Control unit		
375 020	Elexo Electrotherapy control unit	
378 300	Elexo Ultrasound control unit incl. large and small ultrasound head	
Elexo module		
375 120	Elexo Electrotherapy module	
378 350	Elexo Ultrasound module incl. large ultrasound head  Not compatible with Ultrasound control unit	
375 180	Elexo Vaco module	
377 102	Elexo Battery module	
Elexo Combi configurations		
375 300	Elexo Combi	
375 304	Elexo Combi V	
375 308	Elexo Combi ViP	
Gymna Mobile Fit		
368 005	Gymna Mobile Fit	
368 016	Mobile Fit handpiece holder support	
368 027	Mobile Fit storage drawer (1 Extra)	

Elexo detachable components

372 055	Mains lead	S
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Ultrasound heads		
377 005	Large ultrasound head, model US H05 (incl. holder)	S
377 001	Small ultrasound head, model US H01 (incl. holder)	S / O

S : Standard O : Optional

Elexo labelling

Manuals		
374 000	Elexo Quick Start (EN)	S
374 008	Elexo User Manual (EN)	S
374 012	Elexo Safety Instructions, multi language	S
374 004	Registration Card for Elexo	S

S : Standard O : Optional

Ellexo accessories

Electrotherapy accessories

100 657	Chamex bag, 4 x 6 cm (per 4)	O
100 658	Chamex bag, 6 x 8 cm (per 4)	S 1x
100 659	Chamex bag, 8 x 12 cm (per 4)	O
108 934	Fixing strap, elastic, 5 x 30 cm	O
108 935	Fixing strap, elastic, 5 x 60 cm	S 4x
108 936	Fixing strap, elastic, 5 x 120 cm	O
109 944	Sponge for pen electrode (per 10)	O
112 166	Stimulation probe, rectal	O
114 142	Pen electrode with sponge, Ø 15 mm	O
115 684	Visual Analogue Scale (VAS Score)	O
326 799	Electrode adhesive, Ø 3 cm (per 4)	O
326 810	Electrode adhesive, 2.5 x 5 cm (per 4)	O
326 821	Electrode adhesive, 5 x 5 cm (per 4)	O
326 832	Electrode adhesive, 5 x 10 cm (per 4)	O
329 978	Vaginal probe Novatys Gold	O
329 989	Anal probe Analia	O
330 561	Anal probe Analys+	O
330 572	Vaginal probe Optima 3	O
330 583	Vaginal probe Perisize 4+	O
330 594	Vaginal probe V2B+	O
330 803	Test plug, F/F, 2 mm	S 1x
340 406	Electrode cable 2-pole mini/2 mm	S 2x
340 428	Adaptor cable 2 mm (F) 4 mm (M)	O
340 446	Rubber electrode 4 x 6 cm 2 mm (per 2)	O
340 468	Rubber electrode 6 x 8 cm 2 mm (per 2)	S 2x
340 481	Rubber electrode 8 x 12 cm 2 mm (per 2)	O
340 681	Sponge for electrode brace, size 6 cm x 8 cm (per 2)	O
340 692	Sponge for electrode brace, size 8 cm x 12 cm (per 2)	O
340 703	Rubber electrode brace, size 6 cm x 8 cm, 2 mm	O
340 714	Rubber electrode brace, size 8 cm x 12 cm, 2 mm	O

Ellexo accessories

Ultrasound accessories

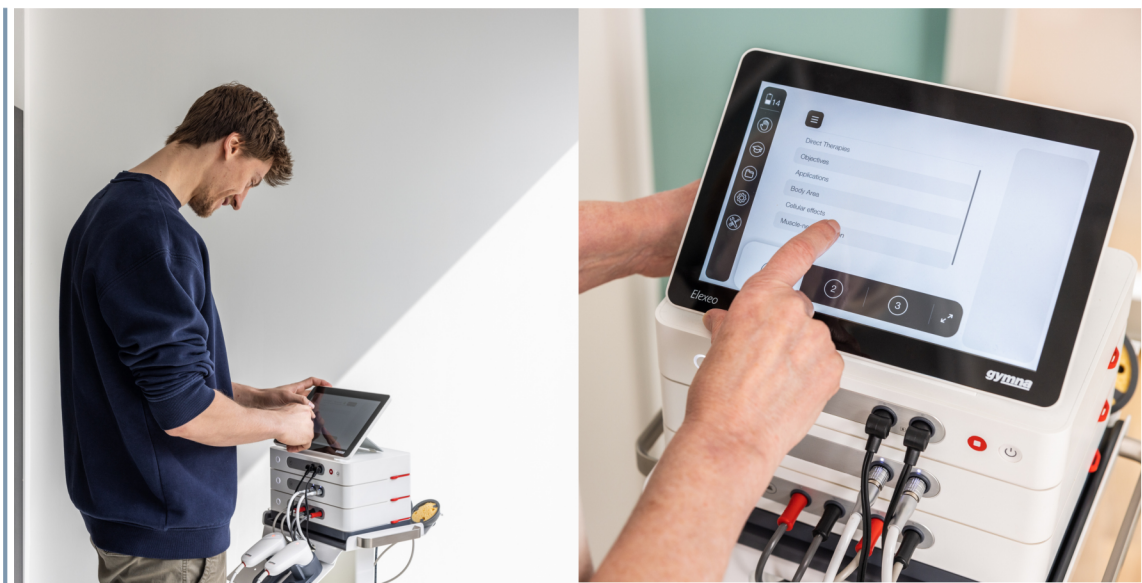
341 143	Contact gel, 200 ml	S 1x
341 088	Contact gel, 500 ml	O
341 099	Contact gel, 5 l	O

S : Standard O : Optional

Vaco accessories

340 604	Vacuum tube, light grey (per 2)	S 1x
340 615	Vacuum tube, dark grey (per 2)	S 1x
340 626	Vacuum electrode - Ø 60 mm (per 2)	S 2x
340 637	Vacuum electrode - Ø 90 mm (per 2)	O
340 648	Sponge for vacuum electrode - Ø 60 mm (per 2)	S 2x
114 687	Sponge for vacuum electrode - Ø 90 mm (per 2)	O

S : Standard O : Optional



Ellexo Electrotherapy technique

Current waveforms

Unidirectional currents	Possible in combination therapy
Direct current	No
Iontophoresis - Direct current	No
MF constant	*
Iontophoresis - MF constant	No
2 - 5 current (Ultra Reiz)	*
Rectangular pulse	*
Triangular pulse	*

Diadynamic currents	Possible in combination therapy
Diadynamic MF	*
Diadynamic RS	*
Diadynamic DF	*
Diadynamic CP	*
Diadynamic LP	*

TENS currents	Possible in combination therapy
Conventional TENS	*
Low Frequency TENS <i>(acupuncture-like)</i>	*
High Frequency TENS	*
Random Frequency TENS	*
Burst TENS	*
HanStim	No
Modulation TENS	No



NMES currents	Possible in combination therapy
Rectangular surge	No
Triangular surge	No
Biphasic surge	No
Intrapulse interval surge	No
Russian stimulation surge	No
2-pole medium frequency surge	No
Isoplanar vector field surge (4-pole)	No

Interferential currents (2 & 4-pole)	Possible in combination therapy
2-pole medium frequency	*
Russian stimulation	*
Isoplanar vector field	No
Classical Interferential	No
Dipole vector field	No

Microcurrents	Possible in combination therapy
Microcurrent continuous	No
Microcurrent surge	No
Microcurrent modulated	*

High Voltage currents	Possible in combination therapy
High Voltage continuous	*
High Voltage surge	No

Elxexo Electrotherapy technique

Muscle nerve condition assessments

Muscle Nerve Assessments	Possible in combination therapy
Rheobase and Chronaxie	No
Rheobase and Accommodation Quotient	No
S-D curve rectangular	No
S-D curve triangular	No
S-D curve rectangular + triangular	No



Ellexeo Electrotherapy technique

Electrotherapy output parameters

Electrotherapy channels	2 totally independent channels (simultaneous use allowed)
Current waveforms	34 conventional current waveforms
Available modes	CC (Constant Current) & CV (Constant Voltage)
Combination therapy compatibility	18 conventional forms available
Maximum intensity in CC / CV (at 1 kΩ)	• Unidirectional currents 80 mA / 80 V • Diadynamic currents 80 mA / 80 V • TENS currents 120 mA / 120 V • NMES (<i>monophasic</i>) 80 mA / 80 V • NMES (<i>biphasic</i>) 120 mA / 120 V • NMES (<i>interferential</i>) 100 mA / 100 V • Interferential currents 100 mA / 100 V • Microcurrents 1000 µA /... • High Voltage ... / 500 V
Current limitations:	the smallest value: • 150 % of the set value, or: • 110 % of the maximum value for the selected current shape
Accuracy	Set current value mA at 1 kΩ ; ± 10 %
Polarity	Red - , Red +, alternating polarity, and half time polarity change, if applicable
Treatment time	0 - 60 minutes

Ellexeo Vaco technique

Vaco module specifications

Vacuum control	Control via touchscreen of the control unit
Vacuum channels	2 independent channels (<i>allows 2 & 4 pole use</i>)
Vacuum mode	Continuous and pulsed modes available
Massage effect: 3-levels	Integrated massage function in pulsed vacuum Low - Medium - High
Continuous Vacuum	50 - 400 hPa
Pulsed Vacuum	45 - 600 hPa
Vacuum stops when treatment ends	On / Off

Ellexo Ultrasound technique

Ultrasound forms

Forms	Possible in combination therapy
Conventional Ultrasound	*
Low Intensity Ultrasound (LIUS)	No
Low Intensity Pulsed Ultrasound (LIPUS)	No
Phonophoresis	No

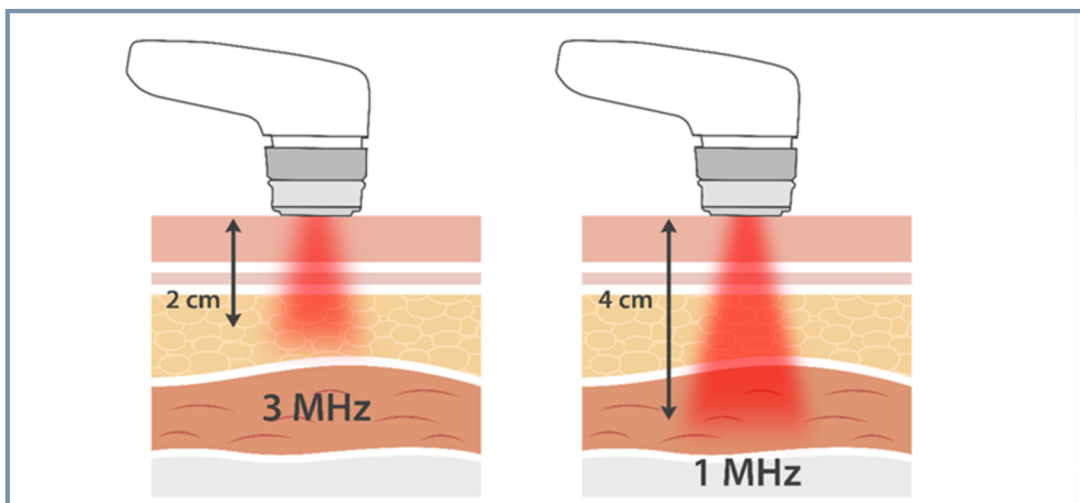


Illustration of ultrasound energy absorption related to penetration depth

Elxexo Ultrasound technique

Ultrasound output parameters

Ultrasound channels	2 totally independent channels <i>simultaneous use allowed</i>
Operating frequency	1 MHz & 3 MHz
Operating modes	pulsed and continuous
Duty cycle	10 - 20 - 30 - 40 - 50 - 80 - 100 %
Pulse repetition frequency	16 - 48 - 100 Hz
DynamUS	On - Off
Ultrasound Peak Power intensity	0 - 2.0 W / cm ² , @ duty cycle = 100 % 0 - 2.5 W / cm ² , @ duty cycle = 80 % 0 - 3.0 W / cm ² , @ duty cycle ≤ 50 %
Low Intensity Pulsed Ultrasound (LIPUS)	0 - 0.5 W / cm ² @ duty cycle ≤ 50 %
Low Intensity Ultrasound (LIUS)	0 - 0.3 W / cm ² @ duty cycle = 100 %
Intensity accuracy	± 20 % of the set values, above 10 % of the maximum value
Treatment time	0 - 30 minutes

Ellexeo Ultrasound technique

Ultrasound head properties

Large Ultrasound head, model US H05

	ERA IEC IEC 60601-2-5		ERA USA 21 CFR 1050.10		
Acoustic Operating Frequency	1.0	3.0	1.0	3.0	MHz
Effective Radiating Area (ERA)	3.2	2.7	4.0	3.6	cm ²
Maximum Output Amplitude (continuous mode)	2.0	2.0	2.0	2.0	W/cm ²
Maximum Output Power (continuous mode)	6.4	5.4	8.0	7.2	W
Maximum Output Amplitude (pulsed mode)	3.0	3.0	3.0	3.0	W/cm ²
Maximum Output Power (pulsed mode)	9.6	8.1	12.0	10.8	W
Output uncertainty	+/- 20	+/- 20	+/- 20	+/- 20	%
Beam Non-Uniform Ratio (BNR)	Max. 4	Max. 3	Max. 4	Max. 3	
Beam Type	Convergent	Collimated	Convergent	Collimated	



Ellexo Ultrasound technique

Ultrasound head properties

Small ultrasound head, model US H01					
	ERA IEC 60601-2-5		ERA USA 21 CFR 1050.10		
Acoustic Operating Frequency	1.0	3.0	1.0	3.0	MHz
Effective Radiating Area (ERA)	0.6	0.6	0.8	0.8	cm ²
Maximum Output Amplitude (continuous mode)	2.0	2.0	2.0	2.0	W/cm ²
Maximum Output Power (continuous mode)	1.2	1.2	1.6	1.6	W
Maximum Output Amplitude (pulsed mode)	3.0	3.0	3.0	3.0	W/cm ²
Maximum Output Power (pulsed mode)	1.8	1.8	2.4	2.4	W
Output uncertainty	+/- 20	+/- 20	+/- 20	+/- 20	%
Beam Non-Uniform Ratio (BNR)	Max. 5	Max. 5	Max. 5	Max. 5	
Beam Type	Convergent	Convergent	Convergent	Convergent	

Combination therapy output parameters

- It is the **combined therapy** of electrotherapy and ultrasound. Therefore both the parameter values of the selected current form as well as the parameters of ultrasound therapy are valid.
- Combination therapy is always applied in **Constant Voltage** mode due to the **dynamic application technique** of ultrasound therapy, except for Microcurrent Modulated, which always remains in CC mode.

Technical specifications of the units and modules

General specifications

Touchscreen	Capacitive touchscreen on a 10-inch full colour display
Languages	13 languages available
Mains Voltage Control Unit	100 -240 V 50 - 60 Hz
Maximum Power, in operation	100 VA
Maximum Power Rating, Li-ion battery module pack	95.04 Wh
Electrical class	Class II
Insulation classification	Type BF
MDR Classification	Class IIa
Conformity	MDR 2017/745
Notified body	CE0344
Operation mode	Suited for normal operation
Ingress protection	IP67
Environmental Operational Conditions	• Ambient temperature: +5°C to +35°C • Relative humidity: 20% to 80%, non-condensing • Atmospheric pressure: 70 kPa to 106 kPa
Connecting modules	Each module can only be included in the system once. Ultrasound module is NOT compatible with the Ultrasound Control unit.
Warranty period	• Control unit : 2 years • Therapy module : 2 years • Battery module : 6 months • Ultrasound head : 1 year Conditions are stated in the User Manual.

Technical specifications of the units and modules

Dimensions and weight

(unpacked & excluding accessories)

Unit and module	Weight	Dimensions <i>(w x d x h)</i>
Electrotherapy control unit	~2,8 kg	270 x 195 x 90 mm
Ultrasound control unit	~2,6 kg	270 x 195 x 90 mm
Electrotherapy module	~1,1 kg	270 x 195 x 50 mm
Ultrasound module	~1,0 kg	270 x 195 x 50 mm
Vacuum module	~1,4 kg	270 x 195 x 50 mm
Battery module	~1,1 kg	270 x 195 x 32 mm
Base plate	~0,5 kg	270 x 195 x 32 mm
Ultrasound head	~0,2 kg	52 x 110 x 72 mm



Transport weight and packaging dimensions

Unit and module	Weight	Dimensions (w x d x h)
Electrotherapy control unit Incl. standard accessories	~4,9 kg	380 x 350 x 150 mm
Ultrasound control unit Excl. ultrasound accessories	~4,4 kg	380 x 350 x 150 mm
Electrotherapy module Incl. standard accessories	~2,2 kg	380 x 335 x 90 mm
Ultrasound module Excl. ultrasound accessories	~1,7 kg	380 x 335 x 90 mm
Vaco module Incl. standard accessories	~2,6 kg	380 x 335 x 90 mm
Battery module	~1,4 kg	315 x 225 x 50 mm
Ultrasound head (US H01 or US H05) Incl. holder & contact gel	~1,1 kg	260 x 200 x 80 mm
Storage and Transport temperature	-10°C to +40°C	
Relative humidity	20 % to 80 %, non-condensing	
Atmospheric pressure	70 kPa to 106 kPa	
Transport Classification	Single Piece, by post	



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