

# Product datasheet

## Combi 400V

The Combi 400V, for electrotherapy, ultrasound therapy, combination therapy and laser therapy. Includes a vacuum unit with 2 independent channels.

The Combi 400V, helps achieving your 3 therapeutical goals of pain relief, tissue repair and muscle stimulation by applying electrotherapy, ultrasound or laser therapy.

Including a modular vacuum unit for the application of electrotherapy using vacuum electrodes.

The color touchscreen, for intuitive navigation, guides you to optimal treatment protocols and access to extended clinical information with the GTS2.



### Characteristics

- Therapies:
  - Electro therapy, 2 and 4 poles, 2 channels completely independent
  - S-D curve diagnostic programs
  - Ultrasound therapy
  - Simultaneous therapy (2 different indications treated simultaneously by using electro and ultrasound therapy)
  - Combination therapy (treating one injury simultaneously using a combination of electro and ultrasound therapy)
  - Laser therapy
- Currents: 30
  - Current forms: see next pages
- Ultrasound:
  - Multifrequency head (1 and 3 MHz), 4 cm<sup>2</sup>
  - Continuous and pulsed mode (10-20-30-40-50-100%)
  - Acoustic and visual contact control led
  - 2 ultrasound output connectors
- Laser: (the probes are optional)
  - Pulsed, infrared gallium arsenide, 905 nm
  - 2 probes:
    - Mono probe, mono 400
      - Peak power: 13,5 W
      - Frequency: 2 – 30.000 Hz
      - Maximum average power: 70.5 mW
    - Quad probe, quad 400 (4 diodes)
      - Peak power: 4 x 18 W
      - Frequency: 2 – 5.000 Hz
      - Maximum average power: 4 x 12.6 mW
- Vacuum unit with 2 independent channels.
  - 2 or 4 poles
  - Electronic vacuum control
  - Continuous and pulse mode
  - Integrated massage function
- Functionalities:
  - Objectives: 190
  - Indications: 279
  - Diagnostic: 12
  - Body Area: 234
  - Cellular effects: 16
  - Default therapy programs: 58
  - Free memory: 500
  - Anatomical library: 91

### Technical specifications

Languages	: 12
Mains voltages	: 100-240-VAC, 50/60 Hz +/- 10%
Max. Power-in operation	: 100 VA
Dimensions (b x h x d)	: 360 x 330 x 285 mm
Weight incl. accessories	: c.a 10,8 kg
Electrical safety protection	: Class II
Applied parts	: Type BF
MDD Classification	: Iia
Conformity	: Directive MDD 93/42/ECC



Article number: 340 018 Combi 400V

### Standard accessories

100 689	Mains lead
340 406	Electrode cable 2-pole mini/2mm (2)
330 803	Test plug, F/F, 2 mm
340 468	Rubber electrode, 6 x 8 cm 2mm fiche (4)
100 658	Chamex bag, 6 x 8 cm (4)
108 935	Fixing strap, elastic, 5 x 60 cm (4)
115 684	Visual Analogue Scale (VAS-Score)
340 204	US-head 1&3 MHz 4cm <sup>2</sup> US 404
341 088	Contact gel, 500 ml
340 505	Touch pen
340 615	Vacuum tube, dark grey, (2)
340 604	Vacuum tube, light grey, (2)
340 626	Vacuum electrode - Ø 60 mm, (2) (2x)
340 648	Sponge for vac. electrode - Ø 60 mm, (4)
318 164	ET Cable 5p Vaco/Electro 400/Guidance
318 167	Com/Pow Cable 6p Vaco/Electro 400/Guidance

### Manuals

323 011	Safety Instructions
340 494	Quick start manual
376 126	CD user manual Gymna devices multi language

### Optional accessories

340 201	US-head 1&3 MHz 1cm <sup>2</sup> US 401
114 142	Pen electrode with sponge, Ø 15 mm
109 944	Sponge for pen electrode (10)
329 978	Vaginal probe Novatys Gold
330 594	Vaginal probe V2B+
330 572	Vaginal probe Optima 3
330 583	Vaginal probe Perisize 4+
329 989	Anal probe Analia
330 561	Anal probe Analys+
112 166	Stimulation probe, rectal
326 799	Electrode adhesive, Ø 3 cm (4)
326 810	Electrode adhesive, 2,5 x 5 cm (4)
326 821	Electrode adhesive, 5 x 5 cm (4)
326 832	Electrode adhesive, 5 x 10 cm (4)
340 446	Rubber electrode 4 x 6 cm 2mm fiche (2)
340 481	Rubber electrode 8 x 12 cm 2mm fiche (2)
108 934	Fixing strap, elastic, 5 x 30 cm
108 936	Fixing strap, elastic, 5 x 120 cm
100 657	Chamex bag, 4 x 6 cm (4)
100 659	Chamex bag, 8 x 12 cm (4)
341 099	Contact gel, 5L
341 121	Pump, 5L
340 252	Laserprobe mono 400 (incl. holder)
340 263	Laserprobe quad 400 (incl. holder)
339 592	Laser protection glasses
340 417	Remote interlock Laser unit Combi 400
320 804	Gymna Mobile
340 428	Adaptor cable 2mm (F) → 4 mm (M)
340 637	Vacuum electrode - Ø 90 mm, (2)
114 687	Sponge for vacuum electrode - Ø 90 mm (4)

	COMBI 400V	DUO 400V	COMBI 400	DUO 400	PULSON 400
<b>Therapies</b>					
Electrotherapy (2 independent channels)	■	■	■	■	■
Ultrasound therapy (1 & 3 MHz)	■	■	■	■	■
Laser therapy (optional)	■	■	■	■	■
Combination therapy	■	■	■	■	■
Simultaneous therapy	■	■	■	■	■
Vacuum	■	■	■	■	■
<b>User-interface</b>					
Full colour TFT display, 10.4 inch (SVGA: 800 X 600 pixels)	■	■	■	■	■
Touch screen	■	■	■	■	■
2 separate intensity regulators	■	■	■	■	■
Guided Therapy System 2 (GTS2)	■	■	■	■	■
Medical E-book: anatomical library	■	■	■	■	■
Help and Clinical information screens	■	■	■	■	■
Direct therapy keys	■	■	■	■	■
Protocols: objectives, list of indications, selection for each body area	■	■	■	■	■
3D pictures of electrode placement	■	■	■	■	■
Diagnostics (S-D curve, Rheobase, Chronaxy)	■	■	■	■	■
Contra-indications list	■	■	■	■	■
Memory: 500 free locations - favourites/own programs	■	■	■	■	■

Electrotherapy 		COMBI 400V	DUO 400V	COMBI 400	DUO 400	PULSON 400
<b>Unidirectional currents</b>						
Direct current		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Rectangular pulse		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2-5 current (Ultra Reiz)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Triangular pulse		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MF rectangular pulse		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Iontophoresis- MF rectangular pulse		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Iontophoresis- direct current		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Diadynamic currents</b>						
MF		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DF		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CP		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
LP		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>TENS currents</b>						
Conventional TENS		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Low frequency TENS		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Burst TENS		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
High frequency TENS		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Random Frequency TENS		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Han Stim (via painrelief)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>NMES currents</b>						
Rectangular surge		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Triangular surge		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Biphasic surge		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Intrapuls interval surge		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Russian stimulation		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2-pole MF surge		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Isoplanar vector field surge		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

		COMBI 400V	DUO 400V	COMBI 400	DUO 400	PULSON 400
<b>Interferential currents</b>						
2-pole Medium Frequency		■	■	■	■	
Isoplanar vector field		■	■	■	■	
Dipole vector field		■	■	■	■	
Classical interferential		■	■	■	■	
<b>Micro current</b>						
Micro current		■	■	■	■	
Micro current modulated		■	■	■	■	
Micro current surge		■	■	■	■	
<b>High Voltage (HVPC)</b>						
High Voltage		■	■	■	■	
High Voltage surge		■	■	■	■	
<b>Diagnostic programs</b>						
Rheobase and Chronaxy		■	■	■	■	
Rheobase and AQ		■	■	■	■	
S-D curve rectangular		■	■	■	■	
S-D curve triangular		■	■	■	■	
S-D curve rectangular + triangular		■	■	■	■	
Pain points		■	■	■	■	
Diagnose stress fracture		■		■		■
Iontophoresis programs		■	■	■	■	
Phonophoresis programs		■		■		■
Constant Voltage / Constant Current		■	■	■	■	
<b>Ultrasound therapy</b>						
Hybrid treatment head 4 cm <sup>2</sup> (1 & 3 MHz, multifrequent)		■		■		■
Hybrid treatment head 1 cm <sup>2</sup> (1 & 3 MHz, multifrequent)		○		○		■

		COMBI 400V	DUO 400V	COMBI 400	DUO 400	PULSON 400
<b>Laser therapy</b> 						
Monoprobe 400: max. average power: 70,5 mW		○		○		
Clusterprobe 400: max. average power: 4 x 12,6 mW		○		○		
<b>Combination therapy</b> 						
Ultrasound + Conventional TENS		■		■		
Ultrasound + High Frequency TENS		■		■		
Ultrasound + Low Freq TENS		■		■		
Ultrasound + Burst TENS		■		■		
Ultrasound + Random Freq TENS		■		■		
Ultrasound + 2-pole MF		■		■		
<b>Simultaneous therapy</b>						
Electrotherapy (2-pole & 4-pole) + Laser (optional)		■		■		
Electrotherapy (2-pole & 4-pole) + Ultrasound		■		■		
Ultrasound + Laser (optional)		■		■		
Electrotherapy (2-pole) + Electrotherapy (2-pole)		■	■	■	■	
<b>Vacuum</b> 						
2 independent channels		■	■			
Electronic vacuum control		■	■			
Continuous & pulsed rhythm		■	■			
Massage effect		■	■			
Control via Combi 400 or Duo 400		■	■			

■ = Standard

○ = Optional

Mains voltages 100-240 VAC/50/60 Hz +- 10%  
Dimensions 360 x 285 x 260 mm  
Weight ca. 5 kg  
CE 0344 meets all applicable requirements