

OPTIMUS II

PHACOEMULSIFICATION SYSTEM



► Micromédica Epsilon

Advanced features compatible with the most modern techniques

Excellent stability of anterior chamber during surgery

Pneumatically powered guillotine cutter for vitrectomy

Friendly touch screen to adjust parameters

Fast identification of functions due different colors

Programmable memories settings for all parameters

Personalized set of memories up to 6 users plus 1 of general use

Selectable language (Spanish, English and Portuguese)

Great portability due to its small size and weight

Low cost of disposable material

Help screens available during surgery

Automated I/V pole interface (optional)



MULTIFUNCTIONAL PEDAL

- Programmable pedal
- Vibrational signal to indicate U/S delivery
- Allows selection of functions and memories



Technical Specifications

U/S Ultrasound		
Handpiece type		Four crystal handpiece
Operating frequency		38 kHz to 40 kHz
Power range		From 0 to 100 %
Irrigation		Gravity fed
Aspiration pump		Peristaltic
Flow rate		From 0 to 50 cm ³ /min
Vacuum		From 0 to 500 mmHg.
Linearity	Linear power, linear flow, linear power and flow	
Power modes	Continuous	From 0 to 100 % power
	Pulse	From 5 to 100 pps
	Single burst, allows for surgeon control of pulse width in phaco power	From 5 to 100 ms
	Multi burst	From 5 to 100 pps
	Cold phaco, allows for surgeon control of both the on time and the off time of the phaco pulse	On time from 2 to 80 ms, off time from 0 to 80 ms
Prime/tune	Automatically primes system and tunes ultrasonic handpiece	

I/A Irrigation/Aspiration		
Handpiece type		Coaxial or bimanual
Irrigation		Gravity fed
Aspiration pump		Peristaltic
Flow rate		From 0 to 50 cm ³ /min
Vacuum		From 0 to 500 mmHg.
Linearity	Panel and linear flow	

VIT Vitrectomy		
Handpiece type		Pneumatically powered guillotine cutter
Cutting mode		Guillotine
Cut rate		From 20 to 400 cuts per minute
Actuation device		Internal air compressor
Operating pressure		20 psi
Irrigation		Gravity fed
Aspiration pump		Peristaltic
Flow rate		From 0 to 50 cm ³ /min
Vacuum		From 0 to 500 mmHg
Linearity	Panel and linear vacuum	

CAUT Cautery		
Type		Bipolar generator
Operating frequency		100 kHz
Nominal power		5 W (600 Ohm load)
Power range		From 0 to 100 %
Linearity	Panel and linear power	

Dimensions		
Height/width/depth/weight console/weight pedal		160 mm, 380 mm, 305 mm, 10 kg, 3kg

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