OPHTHALMIC SURGICAL SYSTEM

MEGATRON® COOL

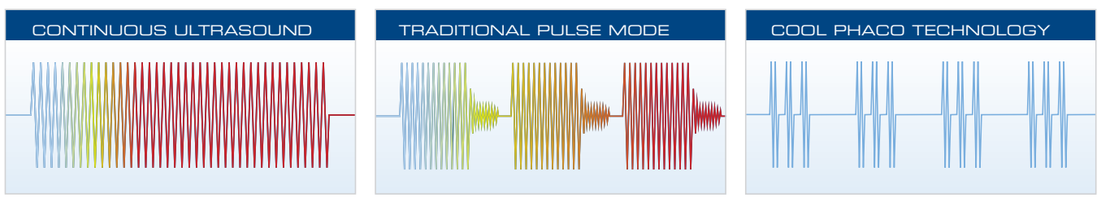
SYSTEMS AND ACCESSORIES

09/60

Geuder®
Precision made in Germany

MEGATRON® COOL FOR MICS – MICRO INCISION CATARACT SURGERY

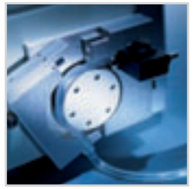
The optimum **MICS** settings of the advanced **MEGATRON® S3** System with **Cool Flash Mode Technology** have now been transferred to the new **MEGATRON® COOL** as well.



MEGATRON® COOL Phaco Technology significantly reduces the ultrasonic power emitted: on average, when compared to the traditional pulse mode, the ultrasonic time is **reduced by 50%**!

By means of micro-incisions, the fine modulated and effective microbursts allow for the emulsification without burning of even the hardest nuclei. The tight incisions reduce the occurrence of turbulences and chatters.

This new technology yields excellent post-op results, such as clearer corneas and faster visual recovery because the smaller incisions and reduced ultrasonic energy and decreased occurrence of turbulences lessen endothelial cell loss and trauma.



MEGATRON® PERISTALTIC PUMP

- Realistic Venturi Effect
- Ideally suited for high vacuum phaco "Magnetic" fragment aspiration

MEGATRON® FOOTSWITCH

- Dual-linear control
- Remote control of console
- Remote control of infusion pole

REAL-TIME VAC SENSOR

- Real-time vacuum sensor and air free aspiration line for maximum anterior chamber stability

GEUDER® ULTRASONIC HANDPIECES

- Constant stroke during handpiece lifetime
- Multilayer handpieces for perfect efficiency and long lifetime
- Only one handpiece needed for phaco, cool phaco and fragmentation

MINI MEGA ULTRASONIC TIP[1]

- Unique patented design
- Emulsification inside the tip
- Significant reduction of phaco power and time
- Improved fluidics for high vacuum phaco and enhanced control of nucleus removal

IRRIGATING CHOPPERS AND BIMANUAL IRRIGATING/ ASPIRATING HANDPIECES[2]

- Widest range of accessories for systems
- Irrigating Instruments provide high infusion flow for perfect anterior chamber stability

MICS INSTRUMENTS[3]

- Widest range of MICS instruments
- 20 gauge forceps and scissors
- MICS diamond and disposable knives

For more detailed information please view our online catalog at **www.geuder.de** or ask for a catalog to be sent by mail.

1 Mini-Mega-Ultrasonic Tip G-24070 – **2** Irrigating Choppers, e.g.: G-32014; G-32055; G-32284; G-32059 / I/A Handpieces, e.g.: G-32028/G-32026; G-32011/G-32012; G-32018/G-32016
3 Forceps; e.g.: G-32934 ; G32935 ; G32932 ; G32933 / Scissors, e.g. : G-32940 / Knives, e.g.: G-34152; G-31448

MEGATRON® COOL

MICROPROCESSOR CONTROLLED OPHTHALMIC SURGICAL SYSTEM FOR ANTERIOR AND POSTERIOR SEGMENT SURGERIES

ACTUAL VENTURI EFFECT

- No external pneumatic assistance
- Extremely short vacuum rise time of 0.5 seconds possible, allowing for
- "Magnetic" aspiration of fragments when US and I/A tips are placed centrally

ALL TYPICAL PERISTALTIC ADVANTAGES

- MSA – Membrane Soft Aspiration for total vacuum control of the retina
- Vacuum and flow rate can be controlled separately
- Minimum loss of fluid through anterior chamber
- Pulsed aspiration

AND MORE...

- Oil injection pressure adjustable to accommodate different viscosities
- High vacuum phaco for use with GEUDER® Mega-Tips
- Can be programmed for several surgeons and multiple procedures
- Footswitch functions can be programmed to suit individual preferences
- The infusion stand can be controlled electronically
- Audiovisual control signals are available for infusion, aspiration, vacuum, ultrasonic power and diathermy
- No expensive cassette system, resulting in low average costs per operation
- Real-time vac sensor sterilizable at 134° C (273.2° F)
- Automatic self-test and tuning of functions at activation
- Remote Control

TECHNICAL DETAILS	
Measurements:	B/W 500, H 150, T/D 370 mm W 20, H 6, D 14.8 in.
Weight:	19 kg (41.8 lb.)
Voltage:	90 – 250 V
Power frequency:	47 – 63 Hz
Power:	400 W

ASPIRATION	
Flow rate:	1 – 50 ml
Vacuum:	1 – 550 mmHg
Flow rate pulsation:	7 Hz
Excessive aspiration:	0 – 100% +/- 10 ml
Vacuum rise with venturi effect:	5 – 0.5 sec.

VITRECTOMY	
Functional principle:	magnetic
Stroke:	10 – 2000 imp/min
Functional principle:	pneumatic
Nominal pressure:	1.4 bar (20 PSI)
Stroke:	10 – 600 imp/min

PHACO	
Frequency:	27 – 55 kHz
Pulsation:	Cool Flash Technology

INFUSION	
Bottle Height:	max. 99 cm (39 in.)

DIATHERMY	
Power:	0 – 15 W at 125 Ohms
Frequency:	1.5 MHz
Pulsation:	3 Hz

G-28252 EC MEGATRON® COOL, III-PV

Microprocessor controlled ophthalmic surgical system with I/A system, ultrasonic incl. "Cool Flash" Mode for MICS (bimanual Phaco), vitrectomy (magnetic and pneumatic) and diathermy incl. Real Time Vac Sensor G-29850

G-28251 EC MEGATRON® COOL, III-PLUS

Microprocessor controlled ophthalmic surgical system with I/A system, ultrasonic incl. "Cool Flash" Mode for MICS (bimanual Phaco), vitrectomy (magnetic and pneumatic), air-fluid exchange, silicone oil injection and diathermy, incl. Real Time Vac Sensor G-29850

G-28101 EC MEGATRON® COOL, I-PLUS

Microprocessor controlled ophthalmic surgical system with I/A system, ultrasonic incl. "Cool Flash" Mode for MICS (bimanual Phaco), vitrectomy (magnetic and pneumatic), air-fluid exchange, silicone oil injection, diathermy and cold light incl. Real Time Vac Sensor G-29850

Certification according
DIN EN ISO 9001:2000
DIN EN ISO 13485:2003

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Precision made in Germany

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