A revolution, not an evolution.



Technical Data

Precision Prec			
Fricuring Signal form Since was Power 2 SW 5 SW at 1100 0 and 100 % performance Sincke 0.5 unit by 2 U% Modulation Continuous, pulse burst Active influors Act	Phacoemulsification	Handpiece type	Piezoelectric
Some from Since some		Application part	BF
Power 25 W at 1100 E and 100 % performance		Frequency	38 41 kHz
Stroke 0.90 m by s 20% Continuous place havest Continuous plac		Signal form	Sine wave
Intigation Gravity		Power	$25W\pm5W$ at 1100 Ω and 100 % performance
Integration Gravity Automatic infusion pode Appration Active infusion With separate persistic pump (OP Contro Pump) Aspiration Persistilic Vision in Control Pump (OP Contro Pump) Aspiration Persistilic Vacuum of . 650 mmlig Vacuum of . 650 mmlig Valids are separated by a foil to avoid conformination Disthermy Disthermy Image: Pump (OP Control Pump) Proper Bigolar coagulation Application part Bigolar coagulation Proper Bigolar coagulation Application part Bigolar coagulation Proper Continues 0 - 10 will \$10 0 Application part Bigolar coagulation Proper Control pump (OP Control Pump) Application part Bigolar coagulation Propert Control pump (OP Control Pump) Proper Control pump (OP Control Pump) Properties Bigolar coagulation Properties Control pump (OP Control Pump) Properties Control pump (OP Control Pump) Properties Properties (OP Control Pump) Properties (OP Cont		Stroke	0 90 µm by ± 20 %
Active influsion Application Periodatic		Modulation	Continuous, pulse, burst
Principation Prin	Irrigation	Gravity	Automatic infusion pole
Peristable Per		Active infusion	With separate peristaltic pump (IOP Control Pump)
Vacuum on 0.600 mmHg Clean Venturi	Aspiration	Peristaltic	Flow 0 60 ml/min
Disthermy Fort pedal Procure of Section Pro			Vacuum 0 650 mmHg
Reflux		Clean Venturi	Vacuum and patient's eye fluids are separated by a foil to avoid contamination
Property Property Property Bisolar coagulation Bisolar C		Clean venturi	Vacuum 0 650 mmHg, variable rise time: 0 10 s
Handpiece type Bloolar forceps, bipolar pencil Application part BF Frequency S80 M±2 Power Continuous 0 - 10 W at 50 D Modulation Pulsa 3 ms, pause 30 ms Vitrectomy Handpiece type Guildone cutter Cutting made Linear proportional, fixed Cutting made Cutter proportional, fixed Cutting made proportional, fixed Cutting made Cutter proportional fixed Cutter proportiona		Reflux	15 ml /min
Application part BF	Diathermy	Туре	Bipolar coagulation
Frequency S00 Hz		Handpiece type	Bipolar forceps, bipolar pencil
Power Continuous 0 - 10 W at 50 0		Application part	BF
Modulation Pulse 3 ms; pause 30 ms		Frequency	500 kHz
Vitrectomy Handpiece type Guillotine cutter Cutting rate 30 - 2000 cuts/min Outning mode Linear proportional, fixed Compressor Integrated compressor (external compressor optional) Pressure 25 PSI (1.7 bar) Foot pedal Type Wireless, dual linear, heel pressure (reflux) 4 rocker switches (up / down) 4 rocker switches (up / down) Easy Move Switch between gliding / fixation Illumination When Easy Move is activated Fully charged battery lasts for up to 50 surgeries Inductive charging station on the device Status display Traffic light system displays charging status and errors Wireless standard Bluetooth LE Cable link CAN-Bus CAN-Bus So Yea Yea Yea A to 4 cm (w/o tray) Weight 65 kg (w/o battery) Battery weight 4.7 kg (per battery, 2 required) Foot pedal weight 50 kg Graphical user interface Soreen size 19°, TFT, IPS, LED Backlight Languages English, Deutsch, Français, Italiano, Español Max. no. of surgeris settings 50		Power	Continuous 0 10 W at 50 Ω
Cutting rate 30 . 2000 cuts/min Cutting mode Linear proportional, fixed Compressor Integrated compressor (external compressor optional) Pressure 25 PSI (1.7 bar) Wireless, dual linear, heel pressure (reflux) 4 rocker switches (up / down) Easy Move Switch between gliding / fixation Illumination When Easy Move is activated Battery Fully chapted battery lasts for up to 50 surgeries Industrie charging status and errors Industrie charging status and errors Wireless standard Bluetooth LE Cable link CAN-Bus Dimension Device 59 x 49 x 164 cm (w/o tray) Weight 65 kg (w/o battery) Battery weight 4.7 kg (per battery, 2 required) Foot pedal weight 5.0 kg Graphical user interface Screen size 19°, TFT, IPS, LED Backlight Languages English, Deutsch, Français, Italiano, Español Max no of surgery settings 150 Electrical specifications Frequency 50 . 60 Hz Supply voltage 100 . 240/VAc Power consump		Modulation	Pulse 3 ms; pause 30 ms
Cutting mode	Vitrectomy	Handpiece type	Guillotine cutter
Compressor Integrated compressor (external compressor optional)		Cutting rate	30 2'000 cuts/min
Fresture 25 PSI (1.7 bar) Foot pedal Type Wireless, dual linear, heel pressure (reflux) 4 rocker switches (up/down) 4 rocker switches (up/down) Easy Move Switch between gliding / fixation Illumination When Easy Move is activated Pully charged battery lasts for up to 50 surgeries Inductive charging station on the device Status display Traffic light system displays charging status and errors Wireless standard Bluetooth LE Cable link CAN-Bus Device 59 x 49 x 164 cm (w/o tray) Weight 65 kg (w/o battery) Battery weight 4.7 kg (per battery, 2 required) Foot pedal weight 50 kg Graphical user interface Screen size 19 ",TFT,IPS, LED Backlight Languages English, Deutsch, Français, Italiano, Español Max no. of surgeons 50 Max no. of surgey settings 150 Electrical specifications Frequency 50 - 60 Hz Supply voltage 100 - 240VAC Power consumption Max. 250 VA (w/o battery charge), max. 500 VA (with battery charge) <t< th=""><th></th><th>Cutting mode</th><th>Linear proportional, fixed</th></t<>		Cutting mode	Linear proportional, fixed
Foot pedal Type Wireless, dual linear, heel pressure (reflux) Foot pedal Type Wireless, dual linear, heel pressure (reflux) Easy Move Switch between gliding / fixation Ull minimation When Easy Move is activated Eastery Eastery Dimension Dimension Device 59 x 49 x 164 cm (w/o tray) Weight 65 kg (w/o battery) Battery weight 4.7 kg (per battery, 2 required) Foot pedal weight 5.0 kg Graphical user interface Screen size 19 ", TFT, IPS, LED Backlight Electrical specifications Max no. of surgeons 50 Max no. of surgeors 50 Max no. of surgery settings 150 Electrical specifications Frequency 50 60 Hz Supply voltage 100 240VAC Power consumption Max. 250 VA (w/o battery charge); max. 500 VA (with battery charge) <th></th> <th>Compressor</th> <th>Integrated compressor (external compressor optional)</th>		Compressor	Integrated compressor (external compressor optional)
Type		Pressure	25 PSI (1.7 bar)
Easy Move Switch between gliding / fixation Illumination When Easy Move is activated Battery Fully charged battery lasts for up to 50 surgeries Inductive charging station on the device Status display Traffic light system displays charging status and errors Wireless standard Bluetooth LE Cable link CAN-Bus Dimension Device 59 x 49 x 164 cm (w/o tray) Weight 65 kg (w/o battery) Battery weight 4.7 kg (per battery, 2 required) Foot pedal weight 5.0 kg Screen size 19 ", TFT, IPS, LED Backlight Languages English, Deutsch, Français, Italiano, Español Max. no. of surgery settings 150 Electrical specifications Frequency 50 60 Hz Supply voltage 100 240VAC Power consumption Max. 250 VA (w/o battery charge); max. 500 VA (with battery charge) Fuse 2 pieces 8A, 250 V Continuous operation with power supply cable Fully charged battery lasts for up to 20 surgeries	Foot pedal	Туре	Wireless, dual linear, heel pressure (reflux)
Illumination When Easy Move is activated			4 rocker switches (up/down)
Battery Fully charged battery lasts for up to 50 surgeries Inductive charging station on the device		Easy Move	Switch between gliding / fixation
Battery Inductive charging station on the device		Illumination	When Easy Move is activated
Status display Traffic light system displays charging status and errors		Dettern	Fully charged battery lasts for up to 50 surgeries
Wireless standard Bluetooth LE		Battery	Inductive charging station on the device
Cable link CAN-Bus Dimension Device 59 x 49 x 164 cm (w/o tray) Weight 65 kg (w/o battery) Battery weight 4.7 kg (per battery, 2 required) Foot pedal weight 5.0 kg Graphical user interface Screen size 19 ", TFT, IPS, LED Backlight Languages English, Deutsch, Français, Italiano, Español Max. no. of surgery settings 150 Electrical specifications Frequency 50 60 Hz Supply voltage 100 240VAC Power consumption Max. 250 VA (w/o battery charge); max. 500 VA (with battery charge) Fuse 2 pieces 8A, 250 V Outlinuous operation with power supply cable Fully charged battery lasts for up to 20 surgeries		Status display	Traffic light system displays charging status and errors
Dimension Device		Wireless standard	Bluetooth LE
Weight 65 kg (w/o battery) Battery weight 4.7 kg (per battery, 2 required) Foot pedal weight 5.0 kg Screen size 19 °, TFT, IPS, LED Backlight Languages English, Deutsch, Français, Italiano, Español Max. no. of surgeons 50 Max. no. of surgery settings 150 Electrical specifications Frequency 50 60 Hz Supply voltage 100 240VAC Power consumption Max. 250 VA (w/o battery charge); max. 500 VA (with battery charge) Fuse 2 pieces 8A, 250 V Outly time Continuous operation with power supply cable Fully charged battery lasts for up to 20 surgeries		Cable link	CAN-Bus
Battery weight 4.7 kg (per battery, 2 required) Foot pedal weight 5.0 kg Graphical user interface Screen size 19 °, TFT, IPS, LED Backlight Languages English, Deutsch, Français, Italiano, Español Max. no. of surgeons 50 Max. no. of surgery settings 150 Electrical specifications Frequency 50 60 Hz Supply voltage 100 240VAC Power consumption Max. 250 VA (w/o battery charge); max. 500 VA (with battery charge) Fuse 2 pieces 8A, 250 V Continuous operation with power supply cable Fully charged battery lasts for up to 20 surgeries	Dimension	Device	59 x 49 x 164 cm (w/o tray)
Foot pedal weight 5.0 kg Graphical user interface Screen size 19 ", TFT, IPS, LED Backlight Languages English, Deutsch, Français, Italiano, Español Max. no. of surgeons 50 Max. no. of surgery settings 150 Electrical specifications Frequency 50 60 Hz Supply voltage 100 240VAC Power consumption Max. 250 VA (w/o battery charge); max. 500 VA (with battery charge) Fuse 2 pieces 8A, 250 V Continuous operation with power supply cable Fully charged battery lasts for up to 20 surgeries		Weight	65 kg (w/o battery)
Graphical user interface Screen size 19 ", TFT, IPS, LED Backlight Languages English, Deutsch, Français, Italiano, Español Max. no. of surgery settings 50 Max. no. of surgery settings 150 Frequency 50 60 Hz Supply voltage 100 240VAC Power consumption Max. 250 VA (w/o battery charge); max. 500 VA (with battery charge) Fuse 2 pieces 8A, 250 V Outy time Continuous operation with power supply cable Fully charged battery lasts for up to 20 surgeries		Battery weight	4.7 kg (per battery, 2 required)
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Max. no. of surgeons Max. no. of surgery settings Frequency Supply voltage Power consumption Fuse Duty time Max. 250 VA (w/o battery charge); max. 500 VA (with battery charge) Fully charged battery lasts for up to 20 surgeries	Graphical user interface	Screen size	19 ", TFT, IPS, LED Backlight
Max. no. of surgery settings Frequency Supply voltage Power consumption Fuse Duty time Max. no. of surgery settings 150 50 60 Hz 100 240VAC Max. 250 VA (w/o battery charge); max. 500 VA (with battery charge) Fuse Continuous operation with power supply cable Fully charged battery lasts for up to 20 surgeries		Languages	English, Deutsch, Français, Italiano, Español
Frequency Supply voltage 100 240VAC Power consumption Fuse 2 pieces 8A, 250 V Continuous operation with power supply cable Fully charged battery lasts for up to 20 surgeries		Max. no. of surgeons	50
Supply voltage 100 240VAC Power consumption Max. 250 VA (w/o battery charge); max. 500 VA (with battery charge) Fuse 2 pieces 8A, 250 V Continuous operation with power supply cable Fully charged battery lasts for up to 20 surgeries		Max. no. of surgery settings	150
Power consumption Max. 250 VA (w/o battery charge); max. 500 VA (with battery charge) Fuse 2 pieces 8A, 250 V Continuous operation with power supply cable Fully charged battery lasts for up to 20 surgeries	Electrical specifications	Frequency	50 60 Hz
Fuse 2 pieces 8A, 250 V Continuous operation with power supply cable Fully charged battery lasts for up to 20 surgeries		Supply voltage	100 240VAC
Duty time Continuous operation with power supply cable Fully charged battery lasts for up to 20 surgeries		Power consumption	Max. 250 VA (w/o battery charge); max. 500 VA (with battery charge)
Duty time Fully charged battery lasts for up to 20 surgeries		Fuse	2 pieces 8A, 250 V
Fully charged battery lasts for up to 20 surgeries		2	Continuous operation with power supply cable
External air supply Optional 4 10 bar, 10 I/min, oil free		Duty time	Fully charged battery lasts for up to 20 surgeries
	External air supply	Optional	4 10 bar, 10 I/min, oil free

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New perspective.

Sometimes one must view things from a completely new perspective. This is the idea behind Sophi. We have redefined the requirements of a perfect Phaco-System by focusing on the points of view of the surgeon, the surgical team and all other involved parties. The result is a high-end device which sets new standards.

The concept of Sophi is based on 3 pillars:

Mobility

Sophi is the first wireless Phaco-System to offer the surgical team high flexibility and mobility. This means ease of handling in the operating

Simplicity

Sophi's design is simple and straightforward. The complexity is inside the device, which allows for simple user handling, helps to save time and increases productivity.

Safety

Sophi opens up new avenues in hygiene and safety. The Clean Venturi and automated Cassette Slot-In-System reduce the risk of contamination. The IOP Control Pump is designed for high chamber

Efficiency

Altogether, the benefits of Sophi's 3-Pillar-Concept facilitate simpler, safer and faster operating procedures – before, during and after surgery. This significantly increases efficiency and therefore also yields economic benefits.

MOBILITY

Easy Move: The first battery-powered Phaco-System

With Sophi, not only the foot pedal works without cables, but the entire device. It requires neither a power cable nor data cables. Sophi is mobile and it is exactly this mobility which simplifies your work and therefore improves efficiency.

Tubeless: Integrated compressor

The compressors for vitrectomy and for Clean Venturi aspiration are also integrated into the device. Therefore, the usual bulky and inflexible tube to the external compressor becomes superfluous.



Flexibility: Freedom thanks to mobility

Sophi is incredibly adaptable. The 180° rotatable display and freedom to choose the tray position facilitates setting up the operating room. Moving the device is very simple too: Release Mono-Brake Handle, move Sophi to the desired location, apply the brake - done.

Easy Connectivity: Ready for the future

These days a wireless connection of the foot pedal over Bluetooth is standard. However, Sophi can do much more! Sophi enables you to transmit live microscope images to the display over Wi-Fi.



SIMPLICITY

Slim Design

Sophi wins through its slim, reduced design. Nonetheless, everything needed for both ergonomic and safe usage is in place. Clear shapes, high-quality materials and numerous innovative solutions make Sophi a system which sets new benchmarks.

Sensory Information Assistance

Sophi communicates with you, not only on the display but also verbally with Text2Speech, and visually with color-changing LED projection. All surgical team member receive exactly the information needed to execute their tasks in a focused and efficient manner.



SAFETY

Triple Pump Fluidics

The centerpiece of every Phaco device is the pumping system for stable chamber fluidics, or with regard to Sophi, more precisely: the pumping systems, as Sophi has three combined into one.

- 1. IOP Control Pump for stable infusion pressure
- 2. Peristaltic Pump to control the flow and vacuum
- 3. Clean Venturi Pump which protects against contamination by the patient's eye fluids





sinusoidal signal - rectangle signal - reduced heat/power

Efficient Sinus Phaco

The less energy a Phaco handpiece requires, the less heat is projected into the eye. That is why Sophi controls the handpiece with a sinusoidal signal, which considerably reduces the energy needed, thereby protecting the eye.

Lean Cassette System

Each detail of Sophi focuses on safety – without compromises. Sophi offers an automatic Cassette Slot-In System which reduces the risk of contact between sterile and unsterile areas during loading.

