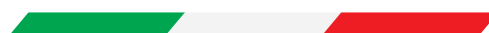


HF SURGICAL UNITS

alsa[®]

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Manufacturer of medical devices since 1932



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ALSATOM SU-MPC



ALSATOM SU 140/D-MPC



Electrosurgical unit for monopolar and bipolar surgery with direct, pulsed and timed currents

ALSATOM SU-MPC are intuitive high-performing electrocautery units. They have both traditional currents and currents with pulsed delivery, which minimises thermal effects in tissues and reduces the harmful smokes generated by the use of electrocautery units. By selecting them, operators can make fine cuts similar to those obtained with radiofrequency devices, and delicate coagulations that would otherwise be difficult to achieve. They are also equipped with a current for Micro-Coagulation that allows the delivery of single pulses varying from 0.1 sec to 1 sec.

They are available in 5 models:

- **ALSATOM SU 50-MPC, ALSATOM SU 100-MPC, ALSATOM SU 140-MPC, ALSATOM SU 140/D-MPC** for Monopolar, Bipolar, Monopolar use under liquid with miniresectors and 5Fr needles
- **ALSATOM SU 140/BD-MPC** for Bipolar use only in cutting and coagulation, as well as cutting, coagulation, saline vaporisation with miniresectors, 5Fr needles and arthroscopy instruments

CURRENTS

ALSATOM SU 50-MPC, SU 100-MPC, SU 140-MPC, SU 140/D-MPC

MONOPOLAR CURRENTS

PURE	Pure Cut, suitable also for use in under liquid surgery in case of minor hysteroscopy procedures
P PULSED	Pure Pulsed Cut, suitable for very fine cuts, with minimum thermal effect (i.e. for conization of cervix or blepharoplasty) and to control surgical smoke
BLEND	Coagulating Cut
B PULSED 1	Coagulating Pulsed Cut. Similar to BLEND, but suitable to reduce the thermal effect and surgical smoke
B PULSED 2	Slow Coagulating Pulsed Cut. Similar to BLEND, but with slow pulses (i.e. for polypectomies)
MICRO	Delicate Coagulation, with low sparking effect
M PULSED	Delicate Micro-Coagulation, with single pulses, which are adjustable from 0.1 sec to 1 sec. It is indicated for all micro-coagulations
FULG	Macro-Coagulation "Fulguration" with strong sparks. It is indicated to coagulate all tissues, even in under liquid surgery, and to perform high-coagulating cuts
F PULSED	Macro-Coagulation "Fulguration", with fast pulses. Similar to FULG, but more delicate. It is indicated to reduce surgical smoke

BIPOLAR CURRENTS

BIPOLAR	Bipolar Coagulation, to be used with forceps, scissors, double-needle electrodes and laparoscopic instruments
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CURRENTS

ALSATOM SU 140/BD-MPC

PURE	Cut for use in Open Surgery or Laparoscopy
P PULSED	Pulsed Fast Cut, suitable to achieve detailed results, minimum thermal effect and reduction of surgical smoke
BLEND	Coagulating Cut, with greater thermal effect
MACRO	Coagulation, to be used with forceps, scissors, double-needle electrodes and laparoscopic instruments
M PULSED	Pulsed Coagulation. Similar to MACRO, but more delicate and useful to reduce surgical smoke
MICRO	Micro-Coagulation, to be used with forceps, scissors, double-needle electrodes and laparoscopic instruments



TECHNICAL FEATURES

HF generator compliant with	IEC 60601-1 and IEC 60601-2-2
CE Classification	IIb
IEC 60601-1 classification and type	I CF
IEC 60601-2-2 output circuit	Floating - protected for the use of a defibrillator (HF dispersion <150 mA)
Monopolar and bipolar working frequency	450 kHz
Operation check	Complete self-diagnosis using microprocessor, and possible operation lock with alarm by means of specific Error Codes in the event of problems relating to: - general operation or activation errors (General Error Control) - output power (Output Error Control)
Power self-adjustment	By microprocessor with: ADC System - Constant power: self-adjusts power, controlling voltage and current, based on real-time feedback (7000 checks/sec) between device and patient's tissue
Outputs	1 Monopolar and 1 Bipolar (for ALSATOM SU 140/BD-MPC 1 Bipolar only)
Foot-operated controls	Single or double pneumatic control (for ALSATOM SU 140/D-MPC and ALSATOM SU 140/BD-MPC only)
Micro/macro power adjustment	0-30 W = 1 W, over 30 W = 2 W
Panel	Smooth, with digital displays and keys
Neutral electrode safety circuit NPCC System	Control of the connection of the neutral electrode - and of the quality of the contact using double section/split electrodes - with alarm signal and possible lock of delivered power
Power supply	230 or 115 V - 50/60 Hz
Power consumption at 230 V	370 VA
Cooling	Convection, without fan
Size (LxDxH) and weight	25x24x12 cm – 4.5 Kg

OUTPUT POWERS

Monopolar currents	ALSATOM SU 50-MPC	ALSATOM SU 100-MPC	ALSATOM SU 140-MPC	ALSATOM SU 140/D-MPC
PURE	80 W - 500 Ω 980 Vpp - CF 1.5 M: no - D: 100%	100 W - 500 Ω 1000 Vpp - CF 1.5 M: no - D: 100%	140 W - 500 Ω 1000 Vpp - CF 1.5 M: no - D: 100%	160 W - 500 Ω 990 Vpp - CF 1.5 M: no - D: 100%
P PULSED	40 W - 500 Ω 1350 Vpp - CF 3 M: 50% - D: 100%	50 W - 500 Ω 1360 Vpp - CF 3 M: 50% - D: 100%	70 W - 500 Ω 1380 Vpp - CF 3 M: 50% - D: 100%	80 W - 500 Ω 1380 Vpp - CF 3 M: 50% - D: 100%
BLEND	80 W - 500 Ω 1400 Vpp - CF 2.3 M: no - D: 80%	100 W - 500 Ω 1400 Vpp - CF 2.3 M: no - D: 80%	120 W - 500 Ω 1400 Vpp - CF 2.3 M: no - D: 80%	140 W - 500 Ω 1410 Vpp - CF 2.3 M: no - D: 80%
B PULSED 1	40 W - 500 Ω 1550 Vpp - CF 3.5 M: 50% - D: 80%	50 W - 500 Ω 1550 Vpp - CF 3.5 M: 50% - D: 80%	60 W - 500 Ω 1550 Vpp - CF 3.5 M: 50% - D: 80%	70 W - 500 Ω 1600 Vpp - CF 3.5 M: 50% - D: 80%
B PULSED 2	35 W - 500 Ω 1580 Vpp - CF 3.6 M: 50% - D: 80%	38 W - 500 Ω 1580 Vpp - CF 3.6 M: 50% - D: 80%	38 W - 500 Ω 1580 Vpp - CF 3.6 M: 50% - D: 80%	38 W - 500 Ω 1630 Vpp - CF 3.6 M: 50% - D: 80%
MICRO	80 W - 500 Ω 1530 Vpp - CF 3.4 M: no - D: 50%	80 W - 500 Ω 1530 Vpp - CF 3.4 M: no - D: 50%	80 W - 500 Ω 1530 Vpp - CF 3.4 M: no - D: 50%	100 W - 500 Ω 1530 Vpp - CF 3.4 M: no - D: 50%
M PULSED	80 W - 500 Ω 1530 Vpp - CF 3.4 M: no - D: 50%	80 W - 500 Ω 1530 Vpp - CF 3.4 M: no - D: 50%	80 W - 500 Ω 1530 Vpp - CF 3.4 M: no - D: 50%	100 W - 500 Ω 1530 Vpp - CF 3.4 M: no - D: 50%
FULG	80 W - 750 Ω 2250 Vpp - CF 3.5 M: no - D: 50%	100 W - 750 Ω 2300 Vpp - CF 3.5 M: no - D: 50%	120 W - 750 Ω 2300 Vpp - CF 3.5 M: no - D: 50%	120 W - 750 Ω 2280 Vpp - CF 3.5 M: no - D: 50%
F PULSED	40 W - 750 Ω 2300 Vpp - CF 5 M: 50% - D: 50%	48 W - 750 Ω 2300 Vpp - CF 5 M: 50% - D: 50%	60 W - 750 Ω 2300 Vpp - CF 5 M: 50% - D: 50%	60 W - 750 Ω 2270 Vpp - CF 5 M: 50% - D: 50%
Bipolar currents	SU 50-MPC	SU 100-MPC	SU 140-MPC	SU 140/D-MPC
BIPOLAR	80 W - 100 Ω 500 Vpp - CF 2.8 M: no - D: 100%	100 W - 100 Ω 500 Vpp - CF 2.8 M: no - D: 100%	100 W - 100 Ω 500 Vpp - CF 2.8 M: no - D: 100%	100 W - 100 Ω 500 Vpp - CF 2.8 M: no - D: 100%

Bipolar currents	ALSATOM SU 140/BD MPC
PURE	120 W - 400 Ω 975 Vpp - CF 2.75 M: no - D: 100%
P PULSED	60 W - 400 Ω 990 Vpp - CF 3.98 M: 50% - D: 100%
BLEND	100 W - 400 Ω 975 Vpp - CF 2.8 M: no - D: 80%
MACRO	100 W - 100 Ω 640 Vpp - CF 3.6 M: no - D: 80%
M PULSED	50 W - 100 Ω 640 Vpp - CF 5 M: no - D: 50%
MICRO	100 W - 100 Ω 600 Vpp - CF 3.4 M: no - D: 50%

KEY

W: DELIVERED POWER

Ω: NOMINAL LOADS

Vpp: PEAK/NO-LOAD PEAK VOLTAGES

CF: CREST FACTORS

M: MODULATION

D: DUTY CYCLE

DEVICES AND STANDARD ACCESSORIES

ALSATOM SU 140-MPC, without accessories

ALSATOM SU 100-MPC, without accessories

ALSATOM SU 50-MPC, without accessories

B700/A STANDARD ACCESSORIES SERIES including:

1 STOP/PN Single pedal control, pneumatic, waterproof, explosion-proof

1 EIP/9 Stainless steel neutral electrode, 2.5 m cable

1 FFE Fixing belt for electrodes

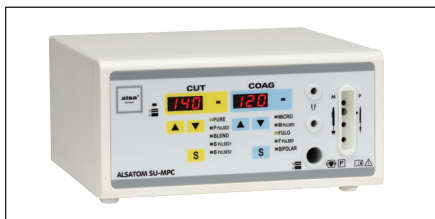
1 MPE/F Sterilisable electrode holder handle, 2.5 m cable

1 SEL/VI Series of 6 active electrodes (2 E1 - Straight blade electrode, 1 E5 - Thick needle electrode, 1 E7 - Fine needle electrode, 1 E12 - Straight ball electrode Ø 2.5 mm, 1 E14 - Straight ball electrode Ø 4 mm)

B700/B STANDARD ACCESSORIES SERIES identical to B700/A, but with NP/GP flexible conductive rubber neutral electrode

B700/D As above, but for dental use, without EIP/9 and SEL/VI replaced, respectively, by EIP/S

- Manual neutral electrode, 2.5 m cable and SEL/D - set of 8 dental electrode



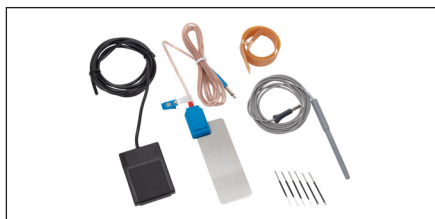
ALSATOM SU 140-MPC



ALSATOM SU 100-MPC



ALSATOM SU 50-MPC



B700/A



B700/B

ALSATOM SU 140/D-MPC, without accessories

B730/A STANDARD ACCESSORIES SERIES including:

1 D-STOP/P Double pedal control, pneumatic, waterproof, explosion-proof

1 EIP/9 Stainless steel neutral electrode, 2.5 m cable

1 FFE Fixing belt for electrodes

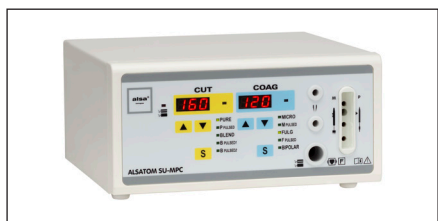
1 MPE/F Sterilisable electrode holder handle, 2.5 m cable

1 SEL/VI Series of 6 active electrodes (2 E1 - Straight blade electrode, 1 E5 - Thick needle electrode, 1 E7 - Fine needle electrode, 1 E12 - Straight ball electrode Ø 2.5 mm, 1 E14 - Straight ball electrode Ø 4 mm)

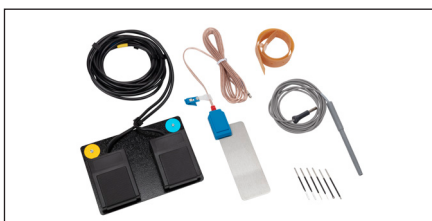
B730/B STANDARD ACCESSORIES SERIES identical to B730/A, but with NP/GP flexible conductive rubber neutral electrode

B730/D As above, but for dental use, without EIP/9 and SEL/VI replaced, respectively, by EIP/S

- Manual neutral electrode, 2.5 m cable and SEL/D - set of 8 dental electrodes



ALSATOM SU 140/D-MPC

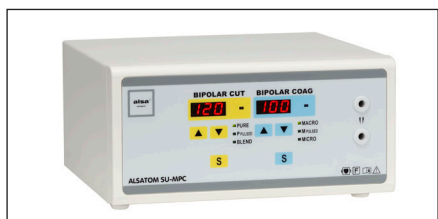


B730/A



B730/B

ALSATOM SU 140/BD-MPC, with D-STOP/P double pedal control



ALSATOM SU 140/BD-MPC

EXCELL MCDSe



EXCELL 400/A MCDSe



Electrosurgical unit for monopolar and bipolar surgery

EXCELL MCDSe are electrocautery units for advanced surgery, indicated for all monopolar, bipolar and monopolar techniques with Argon gas flow.

They are available in 5 models:

- **EXCELL 400 MCDSe, EXCELL 350 MCDSe, EXCELL 250 MCDSe, EXCELL 200 MCDSe** for electrocautery
- **EXCELL 400/A MCDSe** both for electrocautery and for electrocautery with Argon gas, being equipped with an integrated Argon module

CURRENTS

MONOPOLAR CURRENTS

PURE	Pure cut without any coagulating effect
BLEND 1	Coagulating cut with medium haemostatic effect
BLEND 2	Coagulating cut with strong haemostatic effect, spray type
ENDO	Coagulating cut with cut phases alternated to coagulation phases, for flexible endoscopy

FULG FORCED	Coagulation with strong superficial and deep effect
PINPOINT CONTACT	Coagulation similar to the previous one, but softer
SOFT	Very delicate coagulation, with soft superficial effect and strong deep action
SPRAY	Coagulation without any contact and a very strong superficial effect

BIPOLAR CURRENTS

PURE	Pure cut with minimum coagulating effect
BLEND	Coagulating cut with strong coagulating effect
MICRO	Very delicate coagulation, Micro Precise type, with minimum sticking effect of tissue on the tips of the forceps
MICRO AUTO	Coagulation identical to Micro, but with Impedance Sensing automatic Auto Start/Auto Stop
MACRO	Coagulation Standard type, very rapid and efficacious, ideal for forceps with bigger section (for example, for laparoscopy)



TECHNICAL FEATURES

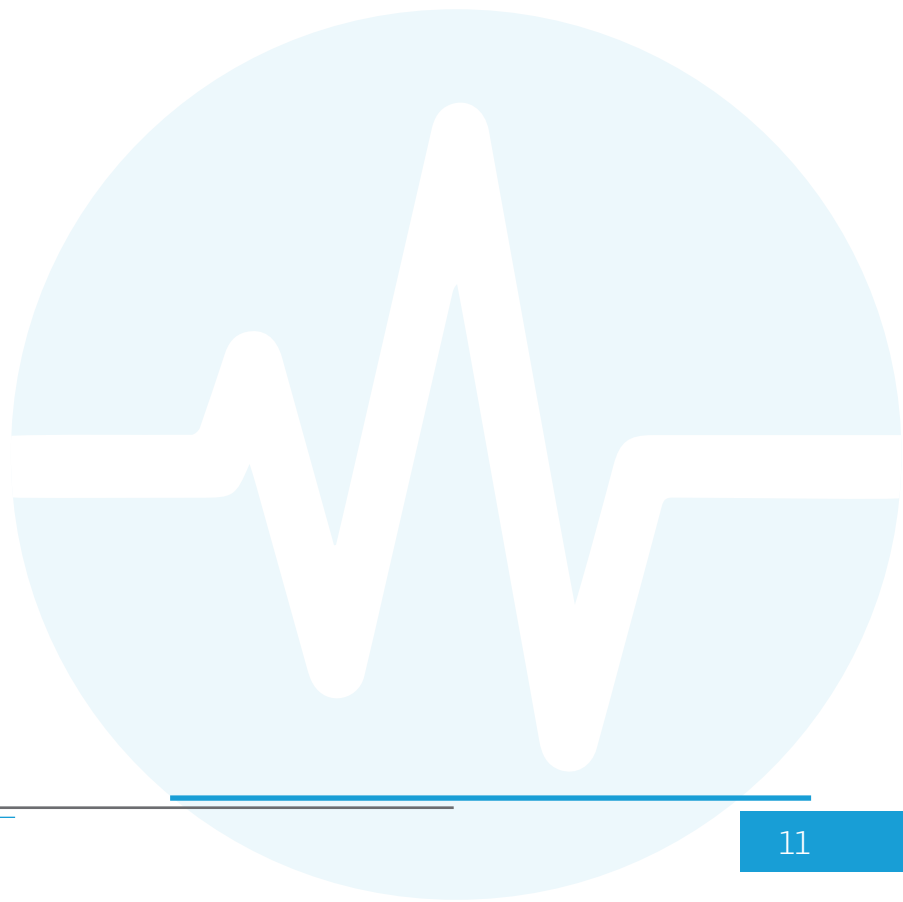
HF generator compliant with	IEC 60601-1 and IEC 60601-2-2
CE Classification	IIb
IEC 60601-1 classification and type	I CF
IEC 60601-2-2 output circuit	Floating - protected for the use of a defibrillator (HF dispersion <150 mA)
Monopolar and bipolar working frequency	440 kHz
Operation check	Complete self-diagnosis by means of a double microprocessor which performs: <ul style="list-style-type: none"> - Main Self-check when turned on - Standard Self-check during operation and, if any, operation lock (within 100 milliseconds), with alarm signalling to operators through specific Error Codes, in the event of problems concerning: <ul style="list-style-type: none"> - general operation or activation errors (General Error Control) - output power (Output Error Control) - HF Leakage Control: continuous verification, by means of a specific circuit, of any HF current dispersion to earth and possible automatic power reduction by means of an alarm signal - Storage of the last 32 Error Codes
Power self-adjustment	By microprocessor with: <ul style="list-style-type: none"> - ADC System - Constant power: self-adjusts power, controlling voltage and current, based on real-time feedback (7000 checks/sec) between device and patient's tissue
Operation memorisation	10 programs
Outputs	2 Monopolar and 1 Bipolar
Foot-operated controls	The EXCELL MCDSe can be equipped with: <ul style="list-style-type: none"> • A double pedal control selectable for monopolar or bipolar functions. • Two double pedal controls, one for monopolar and one for bipolar functions. The pedals are compliant with IEC 60601-2-2, waterproof (IP67), electric with 12 VDC low voltage power supply.
Micro/macro power adjustment	Monopolar: 0-30 W = 1 W, 30-100 W = 2 W, 100-200 W = 5 W, over 200 W = 10 W Bipolar: 0-10 W = 0.5 W, 10-30 W = 1 W, 30-100 W = 2 W, over 100 W = 5 W
Panel	Smooth, with digital displays and keys
Neutral electrode safety circuit NPCC System	Control of the connection of the neutral electrode - and of the quality of the contact using double section/split electrodes - with alarm signal and possible lock of delivered power.
Power supply	230 or 115 V - 50/60 Hz
Power consumption at 230 V	Max power 3.6 A = 828 VA, Stand-by 0.4 A = 92 VA
Cooling	Convection, without fan
Equipotential bonding	Standard DIN 42801 plug
Size (LxDxH) and weight	EXCELL 400/A MCDSe: 38x38x16 cm – 16 Kg EXCELL 400 MCDSe, EXCELL 350 MCDSe, EXCELL 250 MCDSe, EXCELL 200 MCDSe: 38x35x16 cm – 15 Kg
Argon gas section (only in the EXCELL 400/A MCDSe model)	
Supply	One 5 litre cylinder or with centralised system
Flow	Max 15 l/min
Pressure	Inlet 2.5 atm / Outlet 1 atm
Flow check with Constant flow System	From 1 to 15 l/min by means of an electronic sensor with adjustment buttons and visual control on the LED bar. Automatic self-compensation based on the type of electrode used. Alarm if gas is absent.
Pressure check in the Safety gas System circuit	Two-stage pressure reducer (on the cylinder and inside, with safety valve). Pressure sensor connected to the electronic control system, with Auto-Check when the gas section is switched on.
Protection of the supplied gas flow	Gas outlet equipped with antibacterial filter.

OUTPUT POWERS

Monopolar currents	EXCELL 400 MCDSe	EXCELL 350 MCDSe	EXCELL 250 MCDSe	EXCELL 200 MCDSe	EXCELL 400/A MCDSe
PURE	400 W – 350 Ω 3450 Vpp – CF: 1.6 M: no – D: no	350 W – 350 Ω 3450 Vpp – CF: 1.6 M: no – D: no	280 W – 350 Ω 3450 Vpp – CF: 1.6 M: no – D: no	200 W – 350 Ω 3450 Vpp – CF: 1.6 M: no – D: no	400 W – 350 Ω 3450 Vpp – CF: 1.6 M: no – D: no
BLEND 1	300 W – 350 Ω 3600 Vpp – CF: 2.3 M: 29 kHz – D: 65%	300 W – 350 Ω 3600 Vpp – CF: 2.3 M: 29 kHz – D: 65%	280 W – 350 Ω 3540 Vpp – CF: 2.3 M: 29 kHz – D: 65%	200 W – 350 Ω 3500 Vpp – CF: 2.3 M: 29 kHz – D: 65%	300 W – 350 Ω 3600 Vpp – CF: 2.3 M: 29 kHz – D: 65%
BLEND 2	140 W – 600 Ω 7600 Vpp – CF: 8.1 M: 19 kHz – D: 9%	140 W – 600 Ω 7600 Vpp – CF: 8.1 M: 19 kHz – D: 9%	140 W – 600 Ω 7600 Vpp – CF: 8.1 M: 19 kHz – D: 9%	140 W – 600 Ω 7600 Vpp – CF: 8.1 M: 19 kHz – D: 9%	140 W – 600 Ω 7600 Vpp – CF: 8.1 M: 19 kHz – D: 9%
ENDO	250 W – 350 Ω 1880 Vpp – CF: 2.2 50% Pure / 50% Coag	220 W – 350 Ω 1880 Vpp – CF: 2.2 50% Pure / 50% Coag	220 W – 350 Ω 1880 Vpp – CF: 2.2 50% Pure / 50% Coag	200 W – 350 Ω 1880 Vpp – CF: 2.2 50% Pure / 50% Coag	250 W – 350 Ω 1880 Vpp – CF: 2.2 50% Pure / 50% Coag
FULG FORCED	150 W – 350 Ω 4700 Vpp – CF: 4.5 M: 78 kHz – D: 35%	150 W – 350 Ω 4700 Vpp – CF: 4.5 M: 78 kHz – D: 35%	150 W – 350 Ω 4700 Vpp – CF: 4.5 M: 78 kHz – D: 35%	150 W – 350 Ω 4700 Vpp – CF: 4.5 M: 78 kHz – D: 35%	150 W – 350 Ω 4700 Vpp – CF: 4.5 M: 78 kHz – D: 35%
PINPOINT CONTACT	250 W – 250 Ω 3460 Vpp – CF: 2.6 M: 29 kHz – D: 56%	250 W – 250 Ω 3460 Vpp – CF: 2.6 M: 29 kHz – D: 56%	250 W – 250 Ω 3460 Vpp – CF: 2.6 M: 29 kHz – D: 56%	200 W – 250 Ω 3400 Vpp – CF: 2.6 M: 29 kHz – D: 56%	250 W – 250 Ω 3460 Vpp – CF: 2.6 M: 29 kHz – D: 56%
SOFT	280 W – 250 Ω 3440 Vpp – CF: 2.5 M: 29 kHz – D: 56%	280 W – 250 Ω 3440 Vpp – CF: 2.5 M: 29 kHz – D: 56%	280 W – 250 Ω 3440 Vpp – CF: 2.5 M: 29 kHz – D: 56%	200 W – 250 Ω 3020 Vpp – CF: 2,5 M: 29 kHz – D: 56%	280 W – 250 Ω 3440 Vpp – CF: 2.5 M: 29 kHz – D: 56%
SPRAY	140 W – 600 Ω 7600 Vpp – CF: 8.1 M: 19 kHz – D: 9%	140 W – 600 Ω 7600 Vpp – CF: 8.1 M: 19 kHz – D: 9%	140 W – 600 Ω 7600 Vpp – CF: 8.1 M: 19 kHz – D: 9%	140 W – 600 Ω 7600 Vpp – CF: 8.1 M: 19 kHz – D: 9%	140 W – 600 Ω 7600 Vpp – CF: 8.1 M: 19 kHz – D: 9%
Argon Coag					SPRAY + ARGON GAS
Bipolar currents	EXCELL 400 MCDSe	EXCELL 350 MCDSe	EXCELL 250 MCDSe	EXCELL 200 MCDSe	EXCELL 400/A MCDSe
PURE	140 W – 300 Ω 790 Vpp – CF: 1.5 M: no – D: no	140 W – 300 Ω 790 Vpp – CF: 1.5 M: no – D: no	140 W – 300 Ω 790 Vpp – CF: 1.5 M: no – D: no	140 W – 300 Ω 790 Vpp – CF: 1.5 M: no – D: no	140 W – 300 Ω 790 Vpp – CF: 1.5 M: no – D: no
BLEND	120 W – 300 Ω 980 Vpp – CF: 1.8 M: 29 kHz – D: 75%	120 W – 300 Ω 980 Vpp – CF: 1.8 M: 29 kHz – D: 75%	120 W – 300 Ω 980 Vpp – CF: 1.8 M: 29 kHz – D: 75%	120 W – 300 Ω 980 Vpp – CF: 1.8 M: 29 kHz – D: 75%	120 W – 300 Ω 980 Vpp – CF: 1.8 M: 29 kHz – D: 75%
MICRO	120 W – 100 Ω 450 Vpp – CF: 1.7 M: no – D: no	120 W – 100 Ω 450 Vpp – CF: 1.7 M: no – D: no	120 W – 100 Ω 450 Vpp – CF: 1.7 M: no – D: no	120 W – 100 Ω 450 Vpp – CF: 1.7 M: no – D: no	120 W – 100 Ω 450 Vpp – CF: 1.7 M: no – D: no
MICRO AUTO	120 W – 100 Ω 450 Vpp – CF: 1.7 M: no – D: no	120 W – 100 Ω 450 Vpp – CF: 1.7 M: no – D: no	120 W – 100 Ω 450 Vpp – CF: 1.7 M: no – D: no	120 W – 100 Ω 450 Vpp – CF: 1.7 M: no – D: no	120 W – 100 Ω 450 Vpp – CF: 1.7 M: no – D: no
MACRO	120 W – 100 Ω 760 Vpp – CF: 1.7 M: no – D: no	120 W – 100 Ω 760 Vpp – CF: 1.7 M: no – D: no	120 W – 100 Ω 760 Vpp – CF: 1.7 M: no – D: no	120 W – 100 Ω 760 Vpp – CF: 1.7 M: no – D: no	120 W – 100 Ω 760 Vpp – CF: 1.7 M: no – D: no

KEY

- W:** DELIVERED POWER
- Ω:** NOMINAL LOADS
- Vpp:** PEAK/NO-LOAD PEAK VOLTAGES
- CF:** CREST FACTORS
- M:** MODULATION
- D:** DUTY CYCLE



DEVICES AND STANDARD ACCESSORIES

EXCELL 400 MCDSe, without accessories

EXCELL 350 MCDSe, without accessories

EXCELL 250 MCDSe, without accessories

EXCELL 200 MCDSe, without accessories

EXCELL 400/A MCDSe, without accessories

B610/A STANDARD ACCESSORIES SERIES including:

1 DS/E Double pedal control, electric, waterproof

1 NP/A Stainless steel neutral electrode, 2.5 m cable

1 FGE Fixing belt for electrodes

2 MPE/E Sterilisable electrode holder, 3.5 m cable

1 SEL/E Series of 8 active electrodes (2 E1 - Straight blade electrode, 2 E5 – Thick needle electrode, 1 E7 - Fine needle electrode, 1 E12 - Straight ball electrode Ø 2.5 mm, 2 E14 - Straight ball electrode Ø 4 mm)

B610/B STANDARD ACCESSORIES SERIES identical to B610/A, but with NP/GA flexible conductive rubber neutral electrode for adults

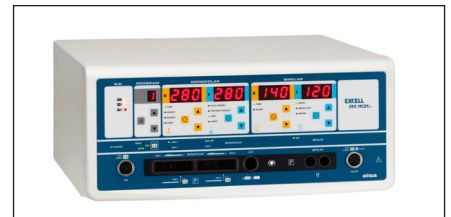
B610/P As above, with neutral paediatric electrode NP/GP



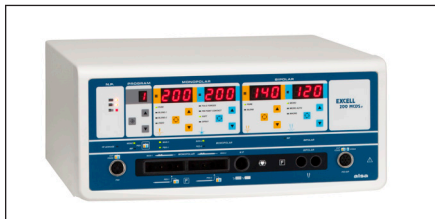
EXCELL 400 MCDSe



EXCELL 350 MCDSe



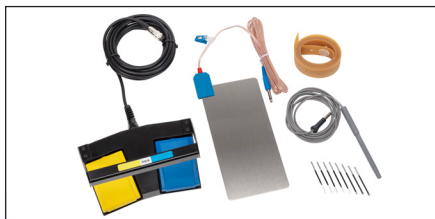
EXCELL 250 MCDSe



EXCELL 200 MCDSe



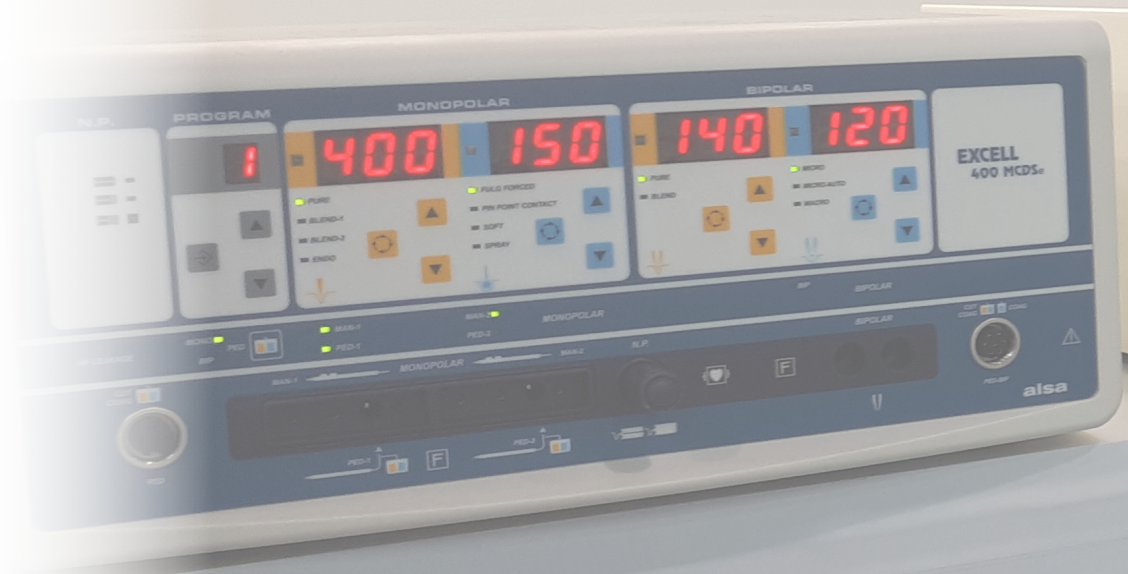
EXCELL 400/A MCDSe



B610/A



B610/B



EXCELL NHP



EXCELL NHP 400/D



Electrosurgical unit for monopolar and bipolar surgery

EXCELL NHP are electrocautery units for advanced surgery, indicated for all monopolar, bipolar and monopolar techniques with Argon gas flow.

They are available in 5 models:

- **EXCELL NHP 400/D, EXCELL NHP 350/D and EXCELL NHP 250/D** for electrocautery
- **EXCELL NHP 400/DA and EXCELL NHP 250/DA** both for electrocautery and for electrocautery with Argon gas, being equipped with an integrated Argon module

CURRENTS

MONOPOLAR CURRENTS

PURE	Non-modulated sinusoidal current for cutting without any coagulating effect
BLEND 1	Modulated and pulsed sinusoidal current for cutting with moderate coagulating effect
BLEND 2	Modulated and pulsed current for cutting with strong coagulating effect, Spray type, for surgery or laparoscopy
AUTO PURE	Non-modulated sinusoidal current for cutting without any coagulating effect
AUTO BLEND	Modulated and pulsed sinusoidal current for cutting with moderate coagulating effect
AUTO ENDO	Current with alternating cut and coagulation phases for flexible endoscopy
FULG FORCED	Modulated high-voltage current with optimum superficial and deep efficacy, suitable both for direct use with an active small section electrode and indirect use through insulated coagulation forceps
PINPOINT CONTACT	Modulated medium-voltage current, very similar to the previous one, but with a more delicate effect
SOFT	Modulated low-voltage current with strong deep effect, and no superficial carbonisation. It is perfect for direct use with coagulation electrodes, or for indirect use through insulated coagulation forceps
SPRAY	Modulated and pulsed very-high voltage current, with a very strong superficial effect and low penetration in the tissue. It is perfect for direct use without any contact, with small section electrodes

BIPOLAR CURRENTS

PURE	Non-modulated sinusoidal pulsed current for cut
BLEND	Modulated and pulsed sinusoidal current for cut with coagulating effect
MICRO CV	Non-modulated low voltage current for very delicate coagulations with Soft / Micro Precise effect, minimum superficial carbonisation, and no sticking on tissue
MICRO HC	Current with Standard Forced effect in order to rapidly coagulate vascularised sites and bleeding during procedures with saline solution, or to use instruments with large tips
MICRO AUTO	Identical to Micro CV, but with Impedance Sensing Auto Start / Auto Stop and Start Delay adjustable from 0 to 5 sec. It is perfect for the use with manual activation, and no need of special forceps with switch device
MACRO	Modulated and pulsed current with stronger effect than the Micro HC current
SEAL HC	Pulsed current to coagulate and close big vessels with minimum superficial carbonization and no sticking of tissues. It can be activated through a pedal foot-switch, and thanks to the Auto Stop Impedance Sensing system it is very effective and easy to use, for laparoscopy procedures as well

TECHNICAL FEATURES

HF generator compliant with	IEC 60601-1 and IEC 60601-2-2
CE Classification	IIb
IEC 60601-1 classification and type	I CF
IEC 60601-2-2 output circuit	Floating - protected for the use of a defibrillator (HF dispersion <150 mA)
Monopolar and bipolar working frequency	440 kHz
Operation check	Complete self-diagnosis by means of a double microprocessor which performs: <ul style="list-style-type: none"> - Main Self-check when turned on - Standard Self-check during operation and, if any, operation lock (within 100 milliseconds), with alarm signalling to operators through specific Error Codes, in the event of problems concerning: <ul style="list-style-type: none"> - general operation or activation errors (General Error Control) - power supply (Output Error Control) - HF Leakage Control: continuous verification, by means of a specific circuit, of any HF current dispersion to earth and possible automatic power reduction by means of an alarm signal - Storage of the last 32 Error Codes
Power self-adjustment	By means of a microprocessor with two different systems: <ul style="list-style-type: none"> - ADC System - Constant power: self-adjusts the power, controlling voltage and current, based on real-time feedback (7000 checks/sec) between device and patient's tissue - APC System - Constant voltage: self-adjusts the power, keeping the voltage constant, based on a real-time feedback (7000 checks/sec) between device and patient's tissue
Operation memorisation	100 programs
Outputs	2 Monopolar and 2 Bipolar
Foot-operated controls	EXCELL NHP units can be fitted with: <ul style="list-style-type: none"> • A double pedal control selectable for monopolar or bipolar functions. • Two double pedal controls, one for monopolar and one for bipolar functions. The pedals are compliant with IEC 60601-2-2, waterproof (IP67), electric with 12 VDC low voltage power supply.
Micro/macro power adjustment	Monopolar: 0-30 W = 1 W, 30-100 W = 2 W, 100-200 W = 5 W, over 200 W = 10 W Bipolar: 0-10 W = 0.5 W, 10-30 W = 1 W, 30-100 W = 2 W, over 100 W = 5 W
Panel	Smooth, with digital displays and keys
Neutral electrode safety circuit NPCC System	Control of the connection of the neutral electrode - and of the quality of the contact using double section/split electrodes - with alarm signal and possible lock of delivered power.
Power supply	230 or 115 V - 50/60 Hz
Power consumption at 230 V	Max power 3.6 A = 828 VA, Stand-by 0.4 A = 92 VA
Cooling	Convection, without fan
Equipotential bonding	Standard DIN 42801 plug
Size (LxDxH) and weight	EXCELL NHP 400/DA and EXCELL NHP 250/DA: 38x38x16 cm – 16 Kg EXCELL NHP 400/D, EXCELL NHP 350/D and EXCELL NHP 250/D: 38x35x16 cm – 15 Kg
Argon gas section (only in EXCELL NHP 400/DA and EXCELL NHP 250/DA models)	
Supply	One 5 litre cylinder or with centralised system
Flow	Max 15 l/min
Pressure	Inlet 2.5 atm / Outlet 1 atm
Flow check with Constant flow System	From 1 to 15 l/min by means of an electronic sensor with adjustment buttons and visual control on the LED bar. Automatic self-compensation based on the type of electrode used. Alarm if gas is absent.
Pressure check in the Safety gas System circuit	Two-stage pressure reducer (on the cylinder and inside, with safety valve). Pressure sensor connected to the electronic control system, with Auto-Check when the gas section is switched on.
Protection of the supplied gas flow	Gas outlet equipped with antibacterial filter.

OUTPUT POWERS

Current self-adjustment

Monopolar currents	EXCELL NHP 400/D	EXCELL NHP 350/D	EXCELL NHP 250/D	EXCELL NHP 400/DA	EXCELL NHP 250/DA	ADC	APC
PURE	400 W – 350 Ω 3450 Vpp – CF: 1.6 M: no – D: no	350 W – 350 Ω 3450 Vpp – CF: 1.6 M: no – D: no	280 W – 350 Ω 3450 Vpp – CF: 1.6 M: no – D: no	400 W – 350 Ω 3450 Vpp – CF: 1.6 M: no – D: no	280 W – 350 Ω 3450 Vpp – CF: 1.6 M: no – D: no	X	
BLEND 1	300 W – 350 Ω 3600 Vpp – CF: 2.3 M: 29 kHz – D: 65%	300 W – 350 Ω 3600 Vpp – CF: 2.3 M: 29 kHz – D: 65%	280 W – 350 Ω 3540 Vpp – CF: 2.3 M: 29 kHz – D: 65%	300 W – 350 Ω 3600 Vpp – CF: 2.3 M: 29 kHz – D: 65%	280 W – 350 Ω 3540 Vpp – CF: 2.3 M: 29 kHz – D: 65%	X	
BLEND 2	140 W – 600 Ω 7600 Vpp – CF: 8.1 M: 19 kHz – D: 9%	140 W – 600 Ω 7600 Vpp – CF: 8.1 M: 19 kHz – D: 9%	140 W – 600 Ω 7600 Vpp – CF: 8.1 M: 19 kHz – D: 9%	140 W – 600 Ω 7600 Vpp – CF: 8.1 M: 19 kHz – D: 9%	140 W – 600 Ω 7600 Vpp – CF: 8.1 M: 19 kHz – D: 9%	X	
AUTO PURE	400 W – 350 Ω 1470 Vpp – CF: 1.6 M: no – D: no	350 W – 350 Ω 1350 Vpp – CF: 1.6 M: no – D: no	280 W – 350 Ω 3450 Vpp – CF: 1.6 M: no – D: no	400 W – 350 Ω 1470 Vpp – CF: 1.6 M: no – D: no	280 W – 350 Ω 3450 Vpp – CF: 1.6 M: no – D: no		X
AUTO BLEND	300 W – 350 Ω 1930 Vpp – CF: 2.3 M: 29 kHz – D: 65%	300 W – 350 Ω 1930 Vpp – CF: 2.3 M: 29 kHz – D: 65%	280 W – 350 Ω 3540 Vpp – CF: 2.3 M: 29 kHz – D: 65%	300 W – 350 Ω 1930 Vpp – CF: 2.3 M: 29 kHz – D: 65%	280 W – 350 Ω 3540 Vpp – CF: 2.3 M: 29 kHz – D: 65%		X
AUTO ENDO	250 W – 350 Ω 1890 Vpp – CF: 2.2 50% Pure / 50% Coag	220 W – 350 Ω 1710 Vpp – CF: 2.2 50% Pure / 50% Coag	220 W – 350 Ω 1880 Vpp – CF: 2.2 50% Pure / 50% Coag	250 W – 350 Ω 1890 Vpp – CF: 2.2 50% Pure / 50% Coag	220 W – 350 Ω 1880 Vpp – CF: 2.2 50% Pure / 50% Coag		X
FULG FORCED	150 W – 350 Ω 4700 Vpp – CF: 4.5 M: 78 kHz – D: 35%	150 W – 350 Ω 4700 Vpp – CF: 4.5 M: 78 kHz – D: 35%	150 W – 350 Ω 4700 Vpp – CF: 4.5 M: 78 kHz – D: 35%	150 W – 350 Ω 4700 Vpp – CF: 4.5 M: 78 kHz – D: 35%	150 W – 350 Ω 4700 Vpp – CF: 4.5 M: 78 kHz – D: 35%	X	
PINPOINT CONTACT	250 W – 250 Ω 3460 Vpp – CF: 2.6 M: 29 kHz – D: 50%	250 W – 250 Ω 3460 Vpp – CF: 2.6 M: 29 kHz – D: 50%	250 W – 250 Ω 3460 Vpp – CF: 2.6 M: 29 kHz – D: 50%	250 W – 250 Ω 3460 Vpp – CF: 2.6 M: 29 kHz – D: 50%	250 W – 250 Ω 3460 Vpp – CF: 2.6 M: 29 kHz – D: 50%	X	
SOFT	280 W – 250 Ω 3440 Vpp – CF: 2.5 M: 29 kHz – D: 56%	280 W – 250 Ω 3440 Vpp – CF: 2.5 M: 29 kHz – D: 56%	280 W – 250 Ω 3440 Vpp – CF: 2.5 M: 29 kHz – D: 56%	280 W – 250 Ω 3440 Vpp – CF: 2.5 M: 29 kHz – D: 56%	280 W – 250 Ω 3440 Vpp – CF: 2.5 M: 29 kHz – D: 56%	X	
SPRAY	140 W – 600 Ω 7600 Vpp – CF: 8.1 M: 19 kHz – D: 9%	140 W – 600 Ω 7600 Vpp – CF: 8.1 M: 19 kHz – D: 9%	140 W – 600 Ω 7600 Vpp – CF: 8.1 M: 19 kHz – D: 9%	140 W – 600 Ω 7600 Vpp – CF: 8.1 M: 19 kHz – D: 9%	140 W – 600 Ω 7600 Vpp – CF: 8.1 M: 19 kHz – D: 9%	X	
Argon Coag				SPRAY + ARGON GAS	SPRAY + ARGON GAS	X	

Current self-adjustment

Bipolar currents	EXCELL NHP 400/D	EXCELL NHP 350/D	EXCELL NHP 250/D	EXCELL NHP 400/DA	EXCELL NHP 250/DA	ADC	APC
PURE	160 W – 300 Ω 850 Vpp – CF: 1.5 M: no – D: no	160 W – 300 Ω 850 Vpp – CF: 1.5 M: no – D: no	160 W – 300 Ω 850 Vpp – CF: 1.5 M: no – D: no	160 W – 300 Ω 850 Vpp – CF: 1.5 M: no – D: no	160 W – 300 Ω 850 Vpp – CF: 1.5 M: no – D: no	X	
BLEND	130 W – 300 Ω 1000 Vpp – CF: 1.8 M: 29 kHz – D: 75%	130 W – 300 Ω 1000 Vpp – CF: 1.8 M: 29 kHz – D: 75%	130 W – 300 Ω 1000 Vpp – CF: 1.8 M: 29 kHz – D: 75%	130 W – 300 Ω 1000 Vpp – CF: 1.8 M: 29 kHz – D: 75%	130 W – 300 Ω 1000 Vpp – CF: 1.8 M: 29 kHz – D: 75%	X	
MICRO CV	130 W – 100 Ω 450 Vpp – CF: 1.7 M: no – D: no	130 W – 100 Ω 450 Vpp – CF: 1.7 M: no – D: no	130 W – 100 Ω 450 Vpp – CF: 1.7 M: no – D: no	130 W – 100 Ω 450 Vpp – CF: 1.7 M: no – D: no	130 W – 100 Ω 450 Vpp – CF: 1.7 M: no – D: no		X
MICRO HC	130 W – 100 Ω 760 Vpp – CF: 1.7 M: no – D: no	130 W – 100 Ω 760 Vpp – CF: 1.7 M: no – D: no	130 W – 100 Ω 760 Vpp – CF: 1.7 M: no – D: no	130 W – 100 Ω 760 Vpp – CF: 1.7 M: no – D: no	130 W – 100 Ω 760 Vpp – CF: 1.7 M: no – D: no	X	
MICRO AUTO	130 W – 100 Ω 450 Vpp – CF: 1.7 M: no – D: no	130 W – 100 Ω 450 Vpp – CF: 1.7 M: no – D: no	130 W – 100 Ω 450 Vpp – CF: 1.7 M: no – D: no	130 W – 100 Ω 450 Vpp – CF: 1.7 M: no – D: no	130 W – 100 Ω 450 Vpp – CF: 1.7 M: no – D: no		X
MACRO	130 W – 100 Ω 760 Vpp – CF: 1.7 M: no – D: no	130 W – 100 Ω 760 Vpp – CF: 1.7 M: no – D: no	130 W – 100 Ω 760 Vpp – CF: 1.7 M: no – D: no	130 W – 100 Ω 760 Vpp – CF: 1.7 M: no – D: no	130 W – 100 Ω 760 Vpp – CF: 1.7 M: no – D: no	X	
SEAL HC	130 W – 100 Ω 710 Vpp – CF: 1.7 M: no – D: no	130 W – 100 Ω 710 Vpp – CF: 1.7 M: no – D: no	130 W – 100 Ω 710 Vpp – CF: 1.7 M: no – D: no	130 W – 100 Ω 710 Vpp – CF: 1.7 M: no – D: no	130 W – 100 Ω 710 Vpp – CF: 1.7 M: no – D: no	X	

KEY

W: DELIVERED POWER

Ω: NOMINAL LOADS

Vpp: PEAK/NO-LOAD PEAK VOLTAGES

CF: CREST FACTORS

M: MODULATION

D: DUTY CYCLE

ADC: CONSTANT POWER

ADC: CONSTANT VOLTAGE



DEVICES AND STANDARD ACCESSORIES

EXCELL NHP 400/D, without accessories

EXCELL NHP 350/D, without accessories

EXCELL NHP 250/D, without accessories

EXCELL NHP 400/DA, without accessories

EXCELL NHP 250/DA, without accessories

B610/A STANDARD ACCESSORIES SERIES including:

1 DS/E Double pedal control, electric, waterproof

1 NP/A Stainless steel neutral electrode, 2.5 m cable

1 FGE Fixing belt for electrodes

2 MPE/E Sterilisable electrode holder, 3.5 m cable

1 SEL/E Series of 8 active electrodes (2 E1 - Straight blade electrode, 2 E5 - Thick needle electrode, 1 E7 - Fine needle electrode, 1 E12 - Straight ball electrode \varnothing 2.5 mm, 2 E14 - Straight ball electrode \varnothing 4 mm)

B610/B STANDARD ACCESSORIES SERIES identical to B610/A, but with NP/GA flexible conductive rubber neutral electrode for adults

B610/P As above, with neutral paediatric electrode NP/GP



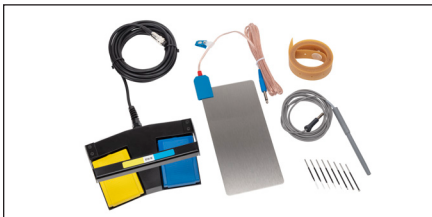
EXCELL NHP 400/D



EXCELL NHP 350/D



EXCELL NHP 250/D



B610/A



B610/B



EXCELL NHP ENDOMED



EXCELL NHP ENDOMED



Electrosurgical unit for monopolar and bipolar surgery

EXCELL NHP ENDOMED is a complete technologically advanced electrocautery unit suitable for any type of monopolar and bipolar technique. It is also equipped with a special

bipolar cutting current in liquid, particularly suitable for the new bipolar endoscopic procedures in urology and gynaecology in saline solution.

CURRENTS

MONOPOLAR CURRENTS

PURE	Non-modulated sinusoidal current for pure cut without coagulating effect
BLEND 1	Sinusoidal modulated current for coagulating cut
BLEND 2	Modulated current for cut with strong coagulating effect, Spray type, for surgery and laparoscopy
AUTO PURE	Non-modulated sinusoidal current for cut without coagulating effect
AUTO BLEND	Sinusoidal modulated current for coagulating cut
AUTO ENDO	Current with alternating cut and coagulation phases for flexible endoscopy

FULG FORCED	Modulated high voltage current with strong coagulating superficial and deep effect
PINPOINT	Modulated medium voltage current with medium coagulating superficial and deep effect
SOFT	Modulated low voltage current with delicate coagulating effect without superficial carbonisation
SPRAY	Modulated very high voltage current for very strong superficial coagulation with a low tissue penetration, even without any contact of the active electrode

BIPOLAR CURRENTS

STANDARD	Pulsed current for cut
SALINE	Pulsed current for endoscopic cut in saline solution
MICRO	Pulsed current for coagulation Soft / Micro Precise type and for coagulation in saline solution
MACRO	Pulsed current for coagulation Standard / Forced type in laparoscopy
SEAL	Pulsed current with automatic stop for sealing of big vessels up to 7 mm diameter



TECHNICAL FEATURES

HF generator compliant with	IEC 60601-1 and IEC 60601-2-2
CE Classification	IIb
IEC 60601-1 classification and type	I CF
IEC 60601-2-2 output circuit	Floating - protected for the use of a defibrillator (HF dispersion <150 mA)
Monopolar and bipolar working frequency	440 kHz
Operation check	Complete self-diagnosis by means of a double microprocessor which performs: <ul style="list-style-type: none"> - Main Self-check when turned on - Standard Self-check during operation and, if any, operation lock (within 100 milliseconds), with alarm signalling to operators through specific Error Codes, in the event of problems concerning: <ul style="list-style-type: none"> - general operation or activation errors (General Error Control) - output power (Output Error Control) - HF Leakage Control: continuous verification, by means of a specific circuit, of any HF current dispersion to earth and possible automatic power reduction by means of an alarm signal - Storage of the last 32 Error Codes
Power self-adjustment	By means of a microprocessor with two different systems: <ul style="list-style-type: none"> - ADC System - Constant power: self-adjusts the power, controlling voltage and current, based on real-time feedback (7000 checks/sec) between device and patient's tissue - APC System - Constant voltage: self-adjusts the power, keeping the voltage constant, based on a real-time feedback (7000 checks/sec) between device and patient's tissue
Operation memorisation	100 programs
Outputs	2 Monopolar and 1 Bipolar
Foot-operated control	EXCELL NHP ENDOMED can be equipped with a double pedal control that can be selected for monopolar or bipolar functions. The pedal is compliant with IEC 60601-2-2, waterproof (IP67), electric with 12 VDC low voltage power supply.
Micro/macro power adjustment	Monopolar: 0-30 W = 1 W, 30-100 W = 2 W, 100-200 W = 5 W, over 200 W = 10 W Bipolar: 0-10 W = 0.5 W, 10-30 W = 1 W, 30-100 W = 2 W, over 100 W = 5 W
Panel	Smooth, with digital displays and keys
Neutral electrode safety circuit NPCC System	Control of the connection of the neutral electrode - and of the quality of the contact using double section/split electrodes - with alarm signal and possible lock of delivered power.
Power supply	230 or 115 V - 50/60 Hz
Power consumption at 230 V	Max power 3.6 A = 828 VA, Stand-by 0.4 A = 92 VA
Cooling	Convection, without fan
Equipotential bonding	Standard DIN 42801 plug
Size (LxDxH) and weight	38x35x16 cm – 15 Kg

OUTPUT POWERS

Monopolar currents	EXCELL NHP ENDOMED
PURE	350 W - 350 Ω 3450 Vpp - CF: 1.6 M: no - D: no
BLEND 1	300 W - 350 Ω 3600 Vpp - CF: 2.3 M: 29 kHz - D: 65%
BLEND 2	140 W - 600 Ω 7600 Vpp - CF: 8.1 M: 19 kHz - D: 9%
AUTO PURE	350 W - 350 Ω 1350 Vpp - CF: 1.6 M: no - D: no
AUTO BLEND	300 W - 350 Ω 1930 Vpp - CF: 2.3 M: 29 kHz - D: 65%
AUTO ENDO	220 W - 350 Ω 1710 Vpp - CF: 2.2 50% Pure 50% Blend I
FULG FORCED	150 W - 350 Ω 4700 Vpp - CF: 4.5 M: 78 kHz - D: 3,5%
PINPOINT	250 W - 250 Ω 3460 Vpp - CF: 2.6 M: 29 kHz - D: 50%
SOFT	280 W - 250 Ω 3440 Vpp - CF: 2.5 M: 29 kHz - D: 56%
SPRAY	140 W - 600 Ω 7600 Vpp - CF: 8.1 M: 19 kHz - D: 9%

Current self-adjustment

ADC	APC
X	
X	
X	
	X
	X
	X
X	
X	
X	
X	



Bipolar currents	EXCELL NHP ENDOMED
STANDARD	180 W - 350 Ω 1200 Vpp - CF: 1.5 M: no - D: no
SALINE	320 W - 50 Ω 1200 Vpp - CF: 1.5 M: no - D: no
MICRO	130 W - 100 Ω 420 Vpp - CF: 1.7 M: no - D: no
MACRO	130 W - 200 Ω 1050 Vpp - CF: 1.7 M: no - D: no
SEAL	130 W (200 W) - 100 Ω 420 Vpp - CF: 1.7 M: no - D: no

Current self-adjustment

ADC	APC
X	
X	
	X
X	
	X

KEY

- W:** DELIVERED POWER
- (W):** STARTING IMPULSE
- Ω:** NOMINAL LOADS
- Vpp:** PEAK/NO-LOAD PEAK VOLTAGES
- CF:** CREST FACTORS
- M:** MODULATION
- D:** DUTY CYCLE
- ADC:** CONSTANT POWER
- ADC:** CONSTANT VOLTAGE



DEVICE AND STANDARD ACCESSORIES

EXCELL NHP ENDOMED, without accessories

B610/A STANDARD ACCESSORIES SERIES including:

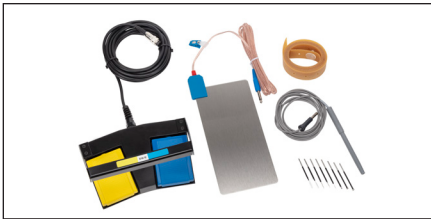
- 1 DS/E Double pedal control, electric, waterproof
- 1 NP/A Stainless steel neutral electrode, 2.5 m cable
- 1 FGE Fixing belt for electrodes
- 2 MPE/E Sterilisable electrode holder, 3.5 m cable
- 1 SEL/E Series of 8 active electrodes (2 E1 - Straight blade electrode, 2 E5 - Thick needle electrode, 1 E7 - Fine needle electrode, 1 E12 - Straight ball electrode \varnothing 2.5 mm, 2 E14 - Straight ball electrode \varnothing 4 mm)

B610/B STANDARD ACCESSORIES SERIES identical to B610/A, but with NP/GA flexible neutral conductive rubber electrode for adults

B610/P As above, with neutral paediatric electrode NP/GP



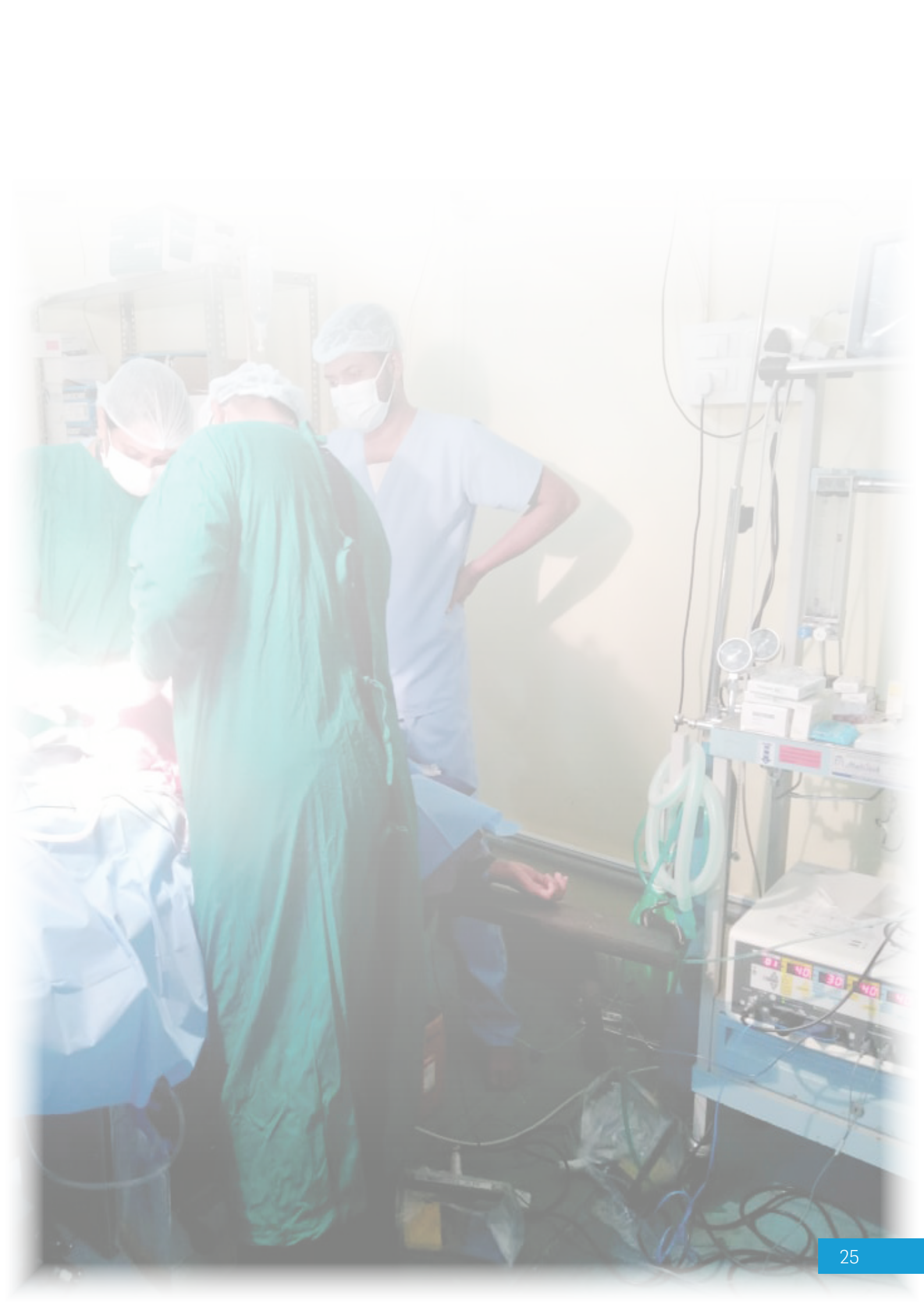
EXCELL NHP ENDOMED



B610/A



B610/B



EXCELL NHP/T



EXCELL NHP/TA-400



Electrosurgical unit for monopolar and bipolar surgery with 7" touch screen display

EXCELL NHP/T are electrocautery units for advanced surgery, indicated for all monopolar, bipolar and monopolar techniques with Argon gas flow.

They are available in 4 models:

- **EXCELL NHP/T-400** and **EXCELL NHP/T-200** for electrocautery
- **EXCELL NHP/TA-400** and **EXCELL NHP/TA-200** both for electrocautery and for electrocautery with Argon gas, being equipped with the integrated Argon module

CURRENTS

MONOPOLAR CURRENTS

PURE CUT	Pure cut without coagulating effect. For open or laparoscopic surgery and for under liquid endoscopy (TURP and TURV procedures)
BLEND CUT 1	Blended cut with medium coagulating effect. For open or laparoscopic surgery and for under liquid endoscopy (TURP and TURV procedures)
BLEND CUT 2	Blended cut with very high coagulating effect. For open or laparoscopic surgery
PURE CUT PULSED	Pure pulsed cut without coagulating effect. For open or laparoscopic surgery (suitable to reduce surgical smoke)
BLEND CUT PULSED	Blended pulsed cut with medium coagulating effect. For open or laparoscopic surgery (suitable to reduce surgical smoke)
AUTO PURE CUT MICRO	"Constant voltage", delicate, pure cut without coagulating effect. For open or laparoscopic surgery and for under liquid endoscopy (TURP and TURV procedures)
AUTO BLEND CUT MICRO	"Constant voltage", delicate cut blended with a medium coagulating effect. For open or laparoscopic surgery and for under liquid endoscopy (TURP and TURV procedures)
AUTO PAPILO PURE CUT	"Constant voltage" pure cut, without coagulating effect, for flexible endoscopy. With four modes of delivery: continuous and pulsed (slow, medium, fast)
AUTO POLIPO BLEND CUT	"Constant voltage" cut, blended with a medium coagulating effect, for flexible endoscopy. With four modes of delivery: continuous and pulsed (slow, medium, fast)
AUTO ENDOCUT	"Constant voltage" cut with alternating phases of BLEND and CUT, for flexible endoscopy. With four modes of delivery: 90% BLEND and 10% CUT, 80% BLEND and 20% CUT, 60% BLEND and 40% CUT, 50% BLEND and 50% CUT

FULG FORCED COAG	High-voltage, contact free coagulation. For open or laparoscopic surgery, under liquid endoscopy (TURP and TURV procedures), and for flexible endoscopy
SPRAY COAG	Very high voltage, contact-free coagulation. For open or laparoscopic surgery, under liquid endoscopy (TURP and TURV procedures), and for flexible endoscopy
PULSED SPRAY COAG	Identical to the SPRAY COAG current, but pulsed and more delicate
PINPOINT CONTACT COAG	Medium voltage, contact coagulation. For open or laparoscopic surgery, under liquid endoscopy (TURP and TURV procedures), and for flexible endoscopy
SOFT MICRO COAG	Delicate, low voltage coagulation. For open or laparoscopic surgery

BIPOLAR CURRENTS

STANDARD BICUT	Cut for open or laparoscopic surgery
BLEND BICUT	Blended cut with very high coagulating effect (Coagulation 95%) for open or laparoscopic surgery
SALINE URO-GYN CUT	Cut in saline with two modes of delivery: continuous and pulsed. For under liquid endoscopy (TURPis and TURVis procedures). The continuous delivery is suitable for vaporization
SALINE ARTHRO CUT	Cut in saline with two modes of delivery: continuous and pulsed. For arthroscopy. The continuous delivery is suitable for vaporization
SOFT MICRO BICOAG	Very precise and delicate coagulation. For open or laparoscopic surgery, under liquid endoscopy (TURPis and TURVis procedures) and flexible endoscopy
FORCED MACRO BICOAG	Fast coagulation. For open or laparoscopic surgery
AUTO SOFT MICRO BICOAG	Identical to SOFT MICRO BICOAG, but with Impedance Sensing automatic activation/deactivation. It is not suitable for endoscopy in saline. Activation with delay adjustable from 0 to 5 seconds and deactivation with two-tone, grave, acoustic signal
SEALING	Current to coagulate/seal vessels up to 7 mm in open and laparoscopic surgery. Activation with pedal and automatic Impedance Sensing deactivation with two-tone, acute, acoustic signal
AUTO SEALING	Identical to SEALING, but with Impedance Sensing automatic activation/deactivation. It is not suitable for endoscopy in saline. Activation with delay adjustable from 0 to 5 seconds and deactivation with two-tone, grave, acoustic signal

TECHNICAL FEATURES

HF generator compliant with	IEC 60601-1 and IEC 60601-2-2
CE Classification	IIb
IEC 60601-1 classification and type	I CF
IEC 60601-2-2 output circuit	Floating - protected for the use of a defibrillator (HF dispersion <150 mA)
Monopolar and bipolar working frequency	440 kHz
Operation check	Complete self-diagnosis by means of a double microprocessor which performs: <ul style="list-style-type: none"> - Main Self-check when turned on - Standard Self-check during operation and, if any, operation lock (within 100 milliseconds), with alarm signalling to operators through specific Error Codes, in the event of problems concerning: <ul style="list-style-type: none"> - general operation or activation errors (General Error Control) - output power (Output Error Control) - HF Leakage Control: continuous verification, by means of a specific circuit, of any HF current dispersion to earth and possible automatic power reduction by means of an alarm signal - Storage of the last 32 Error Codes
Power self-adjustment	By means of a microprocessor with two different systems: <ul style="list-style-type: none"> - ADC System - Constant power: self-adjusts the power, controlling voltage and current, based on real-time feedback (7000 checks/sec) between device and patient's tissue. The powers are equipped with Micro and Macro progressive regulation with steps from 0.1 W to 10 W. Monopolar (from 1 W to 10 W), Bipolar (from 0.1 W to 5 W). - APC System - Constant voltage: self-adjusts the power, keeping the voltage constant, based on a real-time feedback (7000 checks/sec) between device and patient's tissue. The powers are equipped with regulation with 10 effects (for each one the maximum power delivered in W is indicated).
Operation memorisation	100 programs
Outputs	2 Monopolar and 2 Bipolar
Foot-operated controls	EXCELL NHP/T can be fitted with: <ul style="list-style-type: none"> • A double pedal control with push button selector for monopolar or bipolar functions. • Two double pedal controls, one for monopolar and one for bipolar functions. The pedals are compliant with IEC 60601-2-2, waterproof (IP67), electric with 12 VDC low voltage power supply.
Panel	7" touch screen LCD display
Neutral electrode safety circuit NPCC System	Control of the connection of the neutral electrode - and of the quality of the contact using double section/split electrodes - with alarm signal and possible lock of delivered power. It can be used in two different ways: Large electrodes for adults, Small electrodes for paediatric patients/newborns. It allows using cables with both European "Ø 6.35 mm" and US "2 pins" connectors.
Power supply	100-230 V - 50/60 Hz – Automatic switching supply.
Power consumption at 230V	Max power 3.6 A = 828 VA, Stand-by 0.4 A = 92 VA
Cooling	Convection, without fan
Equipotential bonding	Standard DIN 42801 plug
Software upgrade, calibration	Upgrade via serial port connected to a PC, on-site calibration.
Size (LxDxH) and weight	EXCELL NHP/T-400 and EXCELL NHP/T-200: 38x38x20 cm – 10 Kg EXCELL NHP/TA-400 and EXCELL NHP/TA-200: 38x38x20 cm – 10.5 Kg
Argon gas section (only in EXCELL NHP/TA-400 and EXCELL NHP/TA-200 models)	
Supply	One 5 litre cylinder or with centralised system
Flow	Max 15 l/min
Pressure	Inlet 2.5 atm / Outlet 1 atm
Flow check with Constant flow System	From 1 to 15 l/min by electronic sensor with adjustment buttons and numerical control on the display. Automatic self-compensation based on the type of electrode used. Alarm if gas is absent.
Pressure check in the Safety gas System circuit	Two-stage pressure reducer (on the cylinder and inside, with safety valve). Pressure sensor connected to the electronic control system, with Auto-Check when the gas section is switched on.
Protection of the supplied gas flow	Gas outlet equipped with antibacterial filter.

DEVICES AND STANDARD ACCESSORIES

EXCELL NHP/T-400, without accessories

EXCELL NHP/T-200, without accessories

EXCELL NHP/TA-400, without accessories

EXCELL NHP/TA-200, without accessories

B610/Asw STANDARD ACCESSORIES SERIES including:

1 DS/Esw Double pedal control, electric, waterproof

1 NP/A Stainless steel neutral electrode, 2.5 m cable

1 FGE Fixing belt for electrodes

2 MPE/E Sterilisable electrode holder, 3.5 m cable

1 SEL/E Series of 8 active electrodes (2 E1 - Straight blade electrode, 2 E5 - Thick needle electrode, 1 E7 - Fine needle electrode, 1 E12 - Straight ball electrode \varnothing 2.5 mm, 2 E14 - Straight ball electrode \varnothing 4 mm)

B610/Bsw STANDARD ACCESSORIES SERIES identical to B610/Asw, but with flexible conductive rubber neutral electrode NP/GA for adults

B610/Psw As above, with neutral paediatric electrode NP/GP



EXCELL NHP/T-400



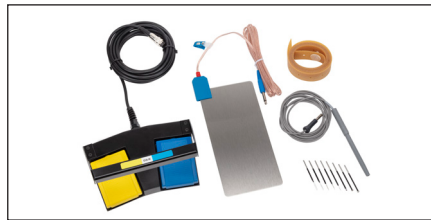
EXCELL NHP/T-200



EXCELL NHP/TA-400



EXCELL NHP/TA-200



B610/Asw



B610/Bsw

alsa

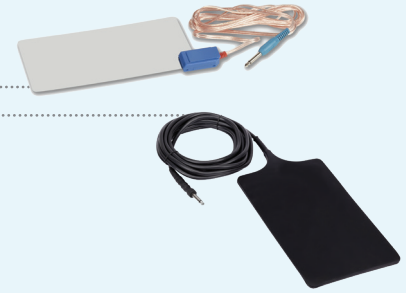
bologna



GENERAL LIST OF ACCESSORIES

REUSABLE NEUTRAL ELECTRODES

- EIP/9** Stainless steel electrode (16x6 cm), 3 m cable
- NP/A** Stainless steel electrode (25x12 cm), 3 m cable
- NP/GA** Conductive flexible rubber electrode (25x15 cm), 4.5 m cable
- NP/GP** Conductive flexible rubber electrode (15x8 cm), 4.5 m cable
- EIP/S** Manual neutral electrode, 2 m cable
- FFE** Elastic belt for fixing electrodes, with double button, L. 50 cm (*)
- FGE** Elastic belt for fixing electrodes, with double button, L. 150 cm (*)



DISPOSABLE ADHESIVE NEUTRAL ELECTRODES

- CMS/E** Reusable connection cable, 3 m
- CMS/E5** As above, 5 m
- EIP/DA** Single section non Split adhesive electrode for adults (25-pc pack) (*)
- EIP/SA** As above, Split type with double section (25-pc pack) (*)
- EIP/DP** Single section non Split paediatric adhesive electrode (25-pc pack) (*)
- EIP/SP** As above, Split type with double section (25-pc pack) (*)

HANDLES FOR USE WITH FOOT CONTROLS

- MPE/F** Autoclavable handle, 2.5 m cable
- MPE/E** Sterilisable electrode holder handle, 3.5 m cable
- MPE/E5** As above, 5 m cable
- MLD/F** Needle holder microsurgery handpiece, autoclavable, 2 m cable

HANDLES WITH DOUBLE BUTTON MANUAL CONTROLS

- MPE/CMS** Electrode holder handle with blade electrode, 3 m cable (100 times sterilisable)
- MPE/CMS5** As above, 5 m cable

ACTIVE ELECTRODES stainless steel, insulated stem \varnothing 2.3 ÷ 2.4 mm, sterilisable

- SHORT TYPE, L. 70 mm**
- E1** Blade electrode, straight
 - E1/I** Blade electrode, straight, all insulated except the last 5 mm
 - E3** Blade electrode, angled
 - E1/L** Lancet electrode, straight
 - E3/L** As above, angled
 - E5** Thick needle electrode, straight
 - E6** As above, angled
 - E7** Thin needle electrode, straight
 - E7/I** Thin needle electrode, straight, all insulated except the last 5 mm
 - E8** Thin needle electrode, angled
 - E10** Ultra-thin needle electrode, 0.40 mm diam.
 - E12** Ball electrode, straight, \varnothing 2.5 mm
 - E13** As above, angled
 - E14** Ball electrode, straight, \varnothing 4 mm
 - E15** As above, angled
 - E16** Ball electrode, straight, \varnothing 6 mm
 - E17** As above, angled
 - E18** Loop electrode (diamond-shaped 5x10 mm)
 - E19** As above, diamond-shaped 10x10 mm
 - E21** Loop electrode (wire, round \varnothing 5 mm)
 - E23** As above, \varnothing 10 mm
 - E25** As above, \varnothing 15 mm
 - E23/N** Loop electrode (ribbon, round \varnothing 10 mm)
 - E25/N** As above, \varnothing 15 mm
 - E26** Plate electrode
- EXT/15** Extension l. 15 cm for all electrodes with stem \varnothing 2.3 ÷ 2.4 mm
- LONG TYPE, L. 130 mm**
- E40** Blade electrode, straight
 - E40/I** Blade electrode, straight, all insulated except the last 5 mm
 - E41** Thick needle electrode, straight
 - E42** Thin needle electrode, straight
 - E42/I** Thin needle electrode, straight, all insulated except the last 5 mm
 - E43** Loop electrode, straight (wire, round \varnothing 5 mm)
 - E44** As above, \varnothing 10 mm
 - E45** As above, \varnothing 15 mm
 - E46** Ball electrode, straight, \varnothing 2.5 mm
 - E47** As above, \varnothing 4 mm
 - E47/6** As above, \varnothing 6 mm



■ **ELECTRODES FOR GYNECOLOGY L. 130 mm**

- E48 Round loop electrode, 20x15 mm
- E49 As above, 10x7 mm
- E50 As above, 10x10 mm
- E51 As above, 15x12 mm
- E52 As above, 15x10 mm
- E53 As above, 20x8 mm
- E54 As above, 20x10 mm
- E55 As above, 20x20 mm
- E56 Square loop electrode, 10x5 mm
- E57 As above, 10x8 mm
- E58 As above, 10x10 mm
- E59 As above, 5x5 mm

■ **ELECTRODES FOR MICROSURGERY, STERILISABLE**

- MID Needle reducer (for all electrode handles)
- SAD Series of 10 needles, Ø 0.10 mm
- SAD/1 As above, Ø 0.15 mm
- SAD/2 As above, Ø 0.20 mm
- SAD/3 As above, Ø 0.40 mm

■ **INSULATED MONOPOLAR FORCEPS FOR COAGULATION, WITHOUT CONNECTION CABLES TO THE EQUIPMENT, STERILISABLE**

- PIC/1 Straight forceps (Cushing/Potts-Smith) ("grasping" tips 1 mm - L. 18 cm)
- PIC/1-25 As above, L. 25 cm
- PIC/2 Straight forceps (Cushing/Potts-Smith) ("grasping" tips 2 mm - L. 25 cm)

■ **INSULATED MONOPOLAR FORCEPS FOR COAGULATION, WITH CONNECTION CABLES TO THE EQUIPMENT, STERILISABLE**

- CPI Connection cable for PMI, L. 3.5 m
- CPI/5 As above, L. 5 m
- PMI/1 Straight forceps (Cushing/Potts-Smith) ("grasping" tips 1 mm - L. 18 cm)
- PMI/1-20 As above, L. 20 cm
- PMI/1-25 As above, L. 25 cm
- PMI/2 Straight forceps (Cushing/Potts-Smith) ("grasping" tips 2 mm - L. 25 cm)
- PMI/B Bayonet forceps (Jansen/Yasargil) ("grasping" tips 2 mm - L. cm. 20 cm)

■ **MONOPOLAR ACCESSORIES FOR LAPAROSCOPY, request specific details.**

■ **CONNECTION CABLES FOR MONOPOLAR INSTRUMENTS FOR LAPAROSCOPY**

- CPE Connection cable for instruments with male or female connector Ø 4 mm, L. 3.5 m
- CPE/5 As above, L. 5 m

■ **CABLES FOR FLEXIBLE ENDOSCOPY, request specific details.**

■ **CONNECTION CABLES FOR BIPOLAR FORCEPS OR ELECTRODES AND FOR HOOKS, FORCEPS AND BIPOLAR SCISSORS FOR LAPAROSCOPY, STERILISABLE**

- CPB/E Connection cable, 3 m
- CPB/E5 As above, L. 5 m

■ **RIGID BIPOLAR INSULATED CLAMPS AND ELECTRODES, STERILISABLE**

Standard forceps for bipolar coagulation

- PMC/JR Straight forceps (Jeweler) (straight tips 0.5 mm - L. 11.5/12 cm)
- PMC/JC As above, angled tips
- PMC/RS Straight forceps (Cushing/Potts-Smith) (straight tips 0.7 mm - L. 15.5 / 16 cm)
- PMC/CS As above, angled tips
- PMC/R Straight forceps (Cushing/Potts-Smith) (straight tips 1 mm - L. 20 cm)
- PMC/C As above, angled tips
- PBC/R Straight forceps (Cushing/Potts-Smith) (straight tips 2 mm - L. 20 cm)
- PBC/C As above, angled tips
- PMC/R25 Straight forceps (Cushing/Potts-Smith) (straight tips 1 mm - L. 25 cm)
- PMC/C25 As above, angled tips
- PBC/R25 Straight forceps (Cushing/Potts-Smith) (straight tips 2 mm - L. 25 cm)
- PBC/C25 As above, angled tips
- PMC/RSB Bayonet forceps (Jensen/Yasargil) (straight tips 0.7 mm - L. 16.5 / 17 cm)
- PMC/B Bayonet forceps (Jensen/Yasargil) (straight tips 1 mm - L. 20 cm)
- PMC/BCD As above, angled tips pointing down
- PMC/BCU As above, angled tips pointing up
- PBC/B Bayonet forceps (Jensen/Yasargil) (straight tips 2 mm - L. 20 cm)
- PBC/BCD As above, angled tips pointing down
- PBC/BCU As above, angled tips pointing up

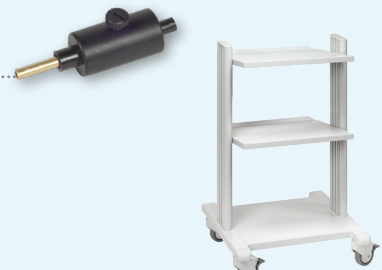


PMC/B25 Bayonet forceps (Jensen/Yasargil) (straight tips 1 mm - L. 25 cm)
PBC/B25 Bayonet forceps (Jensen/Yasargil) (straight tips 2 mm - L. 25 cm)

- **FORCEPS WITH IRRIGATION FOR BIPOLAR COAGULATION**, request specific details.
- **FORCEPS WITH NON-STICK TIPS FOR BIPOLAR COAGULATION**, request specific details.
- **RIGID ELECTRODES FOR BIPOLAR COAGULATION OF TURBINATES OR LARYNX**, request specific details.
- **HOOKS, FORCEPS AND BIPOLAR SCISSORS FOR LAPAROSCOPY**, request specific details.
- **BIPOLAR FORCEPS FOR COAGULATION/SEALING OF LARGE VESSELS FOR SURGERY AND LAPAROSCOPY WITH RELATIVE CABLES**, request specific details.

■ **ADAPTERS FOR USE OF NON-STANDARD ALSA CABLES**

RD/5 For monopolar cables with plugs with Ø from 2 to 8 mm, or Martin standard.
RD/BF For bipolar cables with double plug Ø 4 mm (International standard) or with Valleylab/Conmed standard plug.
RD/BF1 For bipolar cables with coaxial plug Ø 12.5 mm (Erbe/Storz standard)
RD/BF2 For bipolar cables with coaxial plug Ø 8 mm (Martin/Bertchold standard)



■ **TROLLEYS**

H23/SE Trolley with 3 shelves. Size: 50x50x80 cm, antistatic wheels, 2 with brakes
H26 Trolley with 2 shelves and seat for Argon cylinder. Size: 52x55x90 cm, antistatic wheels, 2 with brakes

■ **FOOT CONTROLS**

STOP/PN Foot control, pneumatic, waterproof, explosion-proof (single) (ALSATOM SU 50-MPC, ALSATOM SU 100-MPC, ALSATOM SU 140-MPC)
D-STOP/P Foot control, pneumatic, waterproof, explosion-proof (double) (ALSATOM SU 140/D-MPC, ALSATOM SU 140/BD-MPC)
DS/E Double pedal electric control, waterproof (IP67) (EXCELL MCDS_e, EXCELL NHP)
DS/Esw Double pedal electric control, waterproof (IP67) (EXCELL NHP/T)
DS/B Double pedal electric control, waterproof (IP67), for bipolar operation only (EXCELL MCDS_e, EXCELL NHP, EXCELL NHP/T)



■ **ACCESSORIES HOLDER BOXES**

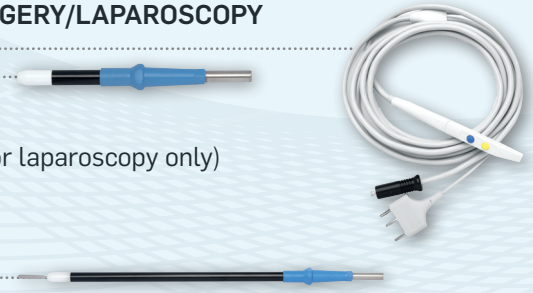
BOX/TE Stainless steel round box for electrodes
BOX/RA-2 Stainless steel rectangular box for accessories, 30x20x6 cm

ACCESSORIES FOR SURGERY WITH ARGON GAS

(with EXCELL 400/A MCDS_e, EXCELL NHP 250/DA, EXCELL NHP 400/DA, EXCELL NHP/TA-200, EXCELL NHP/TA-400)

■ **HANDLE WITH MANUAL CONTROLS AND ELECTRODES FOR SURGERY/LAPAROSCOPY**

AC/HANDLE Double button handle, sterilisable, 3.5 m cable
AC/E25-C Rigid electrode for coagulation, l. 25 mm, sterilisable
AC/E100-C As above, l. 100 mm
AC/E320-C As above, l. 320 mm (for laparoscopy only)
AC/E320-H Rigid hook L-shaped electrode, l. 320 mm, sterilisable (for laparoscopy only)
AC/E40-A Rigid needle electrode, l. 40 mm, sterilisable
AC/E100-A As above, l. 100 mm
AC/E40-L Rigid blade electrode, l. 40 mm, sterilisable
AC/E100-L As above, l. 100 mm



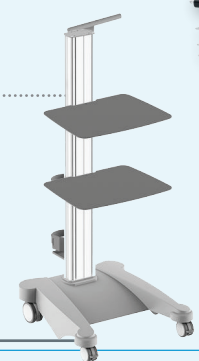
■ **CABLE AND ELECTRODES/PROBES FOR FLEXIBLE ENDOSCOPY**

AC/CABLE+ Connection cable for electrodes/probes, sterilisable, l. 3.5 m
AC/FP1+ Flexible electrode for endoscopy d. 1.5 mm, l. 1.5 m
AC/FP2+ As above, d. 2.3 mm, l. 1.0 m
AC/FP3+ As above, d. 2.3 mm, l. 2.2 m
AC/FP4+ As above, d. 3.2 mm, l. 2.2 m
AC/FP3+s As above, d. 2.3 mm, l. 2.2 m, with side opening




■ **TROLLEY, CYLINDERS, PRESSURE REDUCER, ANTIBACTERIAL FILTER**

H26 Trolley with 2 shelves and seat for Argon cylinder.
 Size: 52x55x90 cm, antistatic wheels, 2 with brakes
B5 5 l argon gas cylinder
RD/P Pressure reducer for B5 cylinder
ESU/TG Gas supply pipe with quick connector (for B5)
ESU/F Antibacterial filter for argon gas outlet
ESU/FC Metal connector for filter



(*) items not CE0051 certified



Notes

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alsa[®]

bologna

PRODUCTS DESIGNED AND MANUFACTURED BY:

ALSA APPARECCHI MEDICALI SRL

via C. Bonazzi, 16

40013 Castel Maggiore (BO) - ITALIA

Tel: +39 051 700101 Email: alsa@alsamed.com

www.alsamed.com



ISO 9001
9120.ALSA



IT - 1231



ISO 13485
9124.ALS2

CE 0051



www.imq.it



IQNet, the association of the world's first class certification bodies, is the largest provider of management System Certification in the world. IQNet is composed of more than 30 bodies and counts over 150 subsidiaries all over the globe.

CERTIFICATO N. CERTIFICATE N. 9120.ALSA

SI CERTIFICA CHE IL SISTEMA DI GESTIONE PER LA QUALITA' DI
WE HEREBY CERTIFY THAT THE QUALITY MANAGEMENT SYSTEM OPERATED BY

ALSA APPARECCHI MEDICALI SRL

VIA C. BONAZZI 16 - 40013 CASTEL MAGGIORE (BO)

UNITA' OPERATIVE / OPERATIVE UNITS

VIA C. BONAZZI 16 - 40013 CASTEL MAGGIORE (BO)

E' CONFORME ALLA NORMA / IS IN COMPLIANCE WITH THE STANDARD
ISO 9001:2015

PER LE SEGUENTI ATTIVITA' / FOR THE FOLLOWING ACTIVITIES

Progettazione, produzione, immissione in commercio, assistenza tecnica e produzione conto terzi di elettrobisturi con o senza gas ARGON e relativi accessori, aspiratori chirurgici e relativi accessori, aspiratori di fumi elettrochirurgici e relativi accessori
Design, manufacture, placing on the market, technical service and contract manufacturing of electrosurgical units with or without ARGON gas and related accessories, electrosurgical aspirators and related accessories, electrosurgical smoke evacuators and related accessories

Ulteriori informazioni riguardanti l'applicabilità dei requisiti ISO 9001:2015 possono essere ottenute consultando l'organizzazione
Further clarifications regarding the applicability of ISO 9001:2015 requirements may be obtained by consulting the organization

IL PRESENTE CERTIFICATO E' SOGGETTO AL RISPETTO DEL
REGOLAMENTO PER LA CERTIFICAZIONE DEI SISTEMI DI GESTIONE
*THE USE AND THE VALIDITY OF THE CERTIFICATE SHALL SATISFY THE
REQUIREMENTS OF THE RULES FOR CERTIFICATION OF MANAGEMENT SYSTEMS*

DATE:	PRIMA CERTIFICAZIONE <i>FIRST CERTIFICATION</i>	EMISSIONE CORRENTE <i>CURRENT ISSUE</i>	SCADENZA <i>EXPIRY</i>
	1998-05-05	2022-03-18	2025-12-19

IMQ S.p.A. - VIA QUINTILIANO, 43 - 20138 MILANO ITALY
Management Systems Division - Flavio Ornago



SGQ N° 005 A

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC
Signatory of EA, IAF and ILAC Mutual Recognition Agreements

IAF: 19

La validità del certificato è subordinata a sorveglianza annuale e riesame completo del Sistema di Gestione con periodicità triennale
The validity of the certificate is submitted to annual audit and a reassessment of the entire management System within three years



Organismo di Certificazione Federato CISQ
www.imq.it



www.cisq.com

CISQ è la Federazione Italiana di Organismi di Certificazione dei sistemi di gestione aziendale.
CISQ is the Italian Federation of management system Certification Bodies.



THE INTERNATIONAL CERTIFICATION NETWORK

CERTIFICATE

CISQ/IMQ has issued an IQNet recognized certificate that the organization:

ALSA APPARECCHI MEDICALI SRL

VIA C. BONAZZI 16 - 40013 CASTEL MAGGIORE (BO)

*has implemented and maintains a
Quality Management System
for the following scope:*

Design, manufacture, placing on the market, technical service and contract manufacturing of electrosurgical units with or without ARGON gas and related accessories, electrosurgical aspirators and related accessories, electrosurgical smoke evacuators and related accessories

Further clarifications regarding the applicability of ISO 9001:2015 requirements may be obtained by consulting the organization

which fulfills the requirements of the following standard:

ISO 9001:2015

Issued on: 2022 - 03 - 18

Expires on: 2025 - 12 - 19

This attestation is directly linked to the IQNet Partner's original certificate and shall not be used as a stand-alone document

Registration Number: IT - 1231



*Alex Stoichitoiu
President of IQNET*



*Ing. Mario Romersi
President of CISQ*

IQNet Partners*:

AENOR Spain AFNOR Certification France APCER Portugal CCC Cyprus CISQ Italy
CQC China CQM China CQS Czech Republic Cro Cert Croatia DQS Holding GmbH Germany EAGLE Certification Group USA
FCAV Brazil FONDONORMA Venezuela ICONTEC Colombia Inspecta Sertifointi Oy Finland INTECO Costa Rica
IRAM Argentina JQA Japan KFQ Korea MIRTEC Greece MSZT Hungary Nemko AS Norway NSAI Ireland
NYCE-SIGE México PCBC Poland Quality Austria Austria RR Russia SII Israel SIQ Slovenia
SIRIM QAS International Malaysia SQS Switzerland SRAC Romania TEST St Petersburg Russia TSE Turkey YUQS Serbia



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IQNet, the association of the world's first class certification bodies, is the largest provider of management System Certification in the world. IQNet is composed of more than 30 bodies and counts over 150 subsidiaries all over the globe.

CERTIFICATO N. CERTIFICATE N. 9124.ALS2

SI CERTIFICA CHE IL SISTEMA DI GESTIONE PER LA QUALITA' DI
WE HEREBY CERTIFY THAT THE QUALITY MANAGEMENT SYSTEM OPERATED BY

ALSA APPARECCHI MEDICALI SRL

VIA C. BONAZZI 16 - 40013 CASTEL MAGGIORE (BO)

UNITA' OPERATIVE / OPERATIVE UNITS

VIA C. BONAZZI 16 - 40013 CASTEL MAGGIORE (BO)

E' CONFORME ALLA NORMA / IS IN COMPLIANCE WITH THE STANDARD
ISO 13485:2016

PER LE SEGUENTI ATTIVITA' / FOR THE FOLLOWING ACTIVITIES

Progettazione, produzione, immissione in commercio, assistenza tecnica e produzione conto terzi di elettrobisturi con o senza gas ARGON e relativi accessori, aspiratori chirurgici e relativi accessori, aspiratori di fumi elettrochirurgici e relativi accessori
Design, manufacture, placing on the market, technical service and contract manufacturing of electrosurgical units with or without ARGON gas and related accessories, electrosurgical aspirators and related accessories, electrosurgical smoke evacuators and related accessories

Ulteriori informazioni riguardanti l'applicabilità dei requisiti ISO 13485:2016 possono essere ottenute consultando l'organizzazione
Further clarifications regarding the applicability of ISO 13485:2016 requirements may be obtained by consulting the organization

IL PRESENTE CERTIFICATO E' SOGGETTO AL RISPETTO DEL
REGOLAMENTO PER LA CERTIFICAZIONE DEI SISTEMI DI GESTIONE
*THE USE AND THE VALIDITY OF THE CERTIFICATE SHALL SATISFY THE
REQUIREMENTS OF THE RULES FOR CERTIFICATION OF MANAGEMENT SYSTEMS*

DATE:	PRIMA CERTIFICAZIONE <i>FIRST CERTIFICATION</i>	EMISSIONE CORRENTE <i>CURRENT ISSUE</i>	SCADENZA <i>EXPIRY</i>
	1998-11-30	2022-03-18	2025-12-19

IMQ S.p.A. - VIA QUINTILIANO, 43 - 20138 MILANO ITALY
Management Systems Division - Flavio Ornago



SGQ N° 005 A

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC
Signatory of EA, IAF and ILAC Mutual Recognition Agreements

La validità del certificato è subordinata a sorveglianza annuale e riesame completo del Sistema di Gestione con periodicità triennale
The validity of the certificate is submitted to annual audit and a reassessment of the entire management System within three years



Organismo di Certificazione Federato CISQ
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CISQ is the Italian Federation of management system Certification Bodies.



CERTIFICATO CE

Certificato n. 187/MDD

Dichiarazione di approvazione del sistema qualità

(Sistema completo di garanzia qualità)

Visto l'esito delle verifiche condotte in conformità all'Allegato II, con l'esclusione del punto 4, della direttiva 93/42/CEE e s.m.i., si dichiara che la ditta:

ALSA APPARECCHI MEDICALI SRL

40013 CASTEL MAGGIORE (BO) - VIA C. BONAZZI 16 (ITA) - Italy

mantiene nello stabilimento di:

40013 CASTEL MAGGIORE (BO) - VIA C. BONAZZI 16 (ITA) - Italy

un sistema qualità che assicura la conformità dei seguenti prodotti:

Aspiratori chirurgici

Accessori per elettrobisturi

Aspiratori di fumi elettrochirurgici

Elettrobisturi

Modd. come da documento 'Allegato al Certificato CE no. 187/MDD - Elenco dei Dispositivi' rev. 0 del 2021/03/05; tale allegato costituisce parte integrante e sostanziale del presente certificato.


ai requisiti essenziali della direttiva suddetta ad essi applicabili (in tutte le fasi dalla progettazione al controllo finale) ed è sottoposta alla sorveglianza prevista dal punto 5 dell'Allegato II. Per i dispositivi in classe III questo certificato è valido solamente con il relativo certificato di esame CE della progettazione di Allegato II.4.

Riferimento pratiche IMQ:

10A9800405; 10A9900240; 10AA00040; 10AA00016; 10AA00060; 10AA00156; 10AA00262; 10AB00169; 10AB000170; 10AC00210; 10AE00050; 10AF00011; 10AF00032; 10AF00192; 10AG00183; 10AH00132; 10AH00244; 10AI00034; 10AI00127; 10AI00122; 10AJ00093; 10EL00005; COMEDCONMHDM110021912-01; 10SN00082; DM16-0007485-01; 10AN00148; 10EO00012; DM16-0007485-01; DM17-0017739-01; DM18-0029069-01; DM18-0029585-01; DM18-0031303; DM19-0046045-01; DM21-0060400-01.

Questa Dichiarazione di approvazione è rilasciata dall'IMQ S.p.A. quale organismo notificato per la direttiva 93/42/CEE e s.m.i. Il numero identificativo dell'IMQ S.p.A. quale organismo notificato è: 0051.

Emesso il: 1999-05-10
 Data aggiornamento: 2021-03-05
 Sostituisce: 2019-11-25
 Data scadenza: 2024-05-26


 IMQ DocuSign



EC CERTIFICATE

Certificate No 187/MDD

Full Quality Assurance System Approval Certificate

On the basis of our examination carried out according to Annex II, excluding section 4, of the Directive 93/42/EEC and its revised version, we hereby certify that:

ALSA APPARECCHI MEDICALI SRL

40013 CASTEL MAGGIORE (BO) - VIA C. BONAZZI 16 (ITA) - Italy

manages in the factory of:

40013 CASTEL MAGGIORE (BO) - VIA C. BONAZZI 16 (ITA) - Italy

a quality assurance system ensuring the conformity of the following products:

Surgical aspirators

Accessories for electrosurgical units

Electrosurgical smoke evacuators

Electrosurgical unit

Type ref. as to document 'Annex of EC Certificate no. 187/MDD - Device List' rev. 0 dated 2021/03/05; this annex is integral and substantial part of this certificate.


with the relevant essential requirements of the aforementioned directive (from design to final inspection and testing) and it is subject to surveillance as specified in section 5 of Annex II. For class III devices, this certificate is valid only with the relevant EC Design-Examination Certificate of Annex II.4.

Reference to IMQ files Nos:

10A9800405; 10A9900240; 10AA00040; 10AA00016; 10AA00060; 10AA00156; 10AA00262; 10AB00169; 10AB000170; 10AC00210; 10AE00050; 10AF00011; 10AF00032; 10AF00192; 10AG00183; 10AH00132; 10AH00244; 10AI00034; 10AI00127; 10AI00122; 10AJ00093; 10EL00005; COMEDCONMHDM110021912-01; 10SN00082; DM16-0007485-01; 10AN00148; 10EO00012; DM16-0007485-01; DM17-0017739-01; DM18-0029069-01; DM18-0029585-01; DM18-0031303; DM19-0046045-01; DM21-0060400-01.

This Approval Certificate is issued by IMQ S.p.A. as Notified Body for the Directive 93/42/EEC and its revised version. Notified Body notified to European Commission under number: 0051.

Date: 1999-05-10
 Updated: 2021-03-05
 Substitution Date: 2019-11-25
 Expiry Date: 2024-05-26



IMQ DocuSign

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Categoria di dispositivo: Aspiratori chirurgici Device category: Surgical aspirators
Serie: VACUMSOL Series: Modello/i: VACUMSOL AS-60; Model(s): VACUMSOL AS-65; VACUMSOL AS-65/H
Serie: VORTEX-S Series: Modello/i: VORTEX-S AS-200/20LT; Model(s): VORTEX-S AS-200/30LT; VORTEX-S AS-200/20LT VE; VORTEX-S AS-200/30LT VE
Serie: VORTECO Series: Modello/i: VORTECO AS-100/15LT; Model(s): VORTECO AS-100/20LT; VORTECO AS-100/30LT; VORTECO AS-100/30LT VE
Serie: POLIVAC Series: Modello/i: POLIVAC B4/SLT 30 1; Model(s): POLIVAC B4/SLT 30 2; POLIVAC B4/SLT 30 1-EXP; POLIVAC B4/SLT 30 2-EXP; POLIVAC B4/SLT 30 P-EXP; POLIVAC B4/SLT 50 E; POLIVAC B4/SLT 30 1VE-EXP; POLIVAC B4/SLT 30 PVE-EXP

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<p>Categoria di dispositivo: Accessori per elettrobisturi Device category: Accessories for electrosurgical units</p>
<p>Serie: MPE e MLD Series:</p> <p>Modello/i: Manipoli porta elettrodi monopolari riusabili per utilizzo con comando a pedale Model(s):</p> <p>Codici / Codes:</p> <ul style="list-style-type: none"> • MPE/S; MPE/E; MPE/E5; MPE/F • MLD; MLD/F
<p>Serie: MPE/CMS Series:</p> <p>Modello/i: Manipoli porta elettrodi monopolari riusabili per utilizzo con comando manuale a doppio pulsante Model(s):</p> <p>Codici / Codes:</p> <ul style="list-style-type: none"> • MPE/CMS; MPE/CMS5; MPE/CMS300; MPE/CMS300-4
<p>Serie: E Series:</p> <p>Modello/i: Serie di elettrodi attivi monopolari riusabili per elettrochirurgia Model(s):</p> <p>Codici / Codes:</p> <ul style="list-style-type: none"> • SEL/VI; SEL/D; SEL/E
<p>Serie: E Series:</p> <p>Modello/i: Elettrodi attivi monopolari riusabili per elettrochirurgia Model(s):</p> <p>Codici / Codes:</p> <ul style="list-style-type: none"> • E1; E11; E3; E1L; E3L; E5; E6; E7; E7L; E8; E10; E12; E13; E14; E15; E16; E17; E18; E19; E21; E23; E23N; E25; E25N; E26; EXT/15 • E27; E29; E30; E31; E32; E33; E34; E35; E37; E39; • E40I; E40; E41; E41I; E42; E43; E46; E47; E47/6; • E48; E49; E50; E51; E52; E53; E54; E55; E56; E57; E58 • E101; E102; E103; E105; E106; E109; E110; E111; E112; E120; E121; • E/ND12; E/DR12; E/HK12; E/HY12; • E/ND18; E/DR18; E/HK18; E/HY18
<p>Serie: SAD Series:</p> <p>Modello/i: Elettrodi attivi monopolari (aghi sottili) per elettrochirurgia Model(s):</p> <p>Codici / Codes:</p> <ul style="list-style-type: none"> • SAD; SAD/AN; SAD/1; SAD/1AN; SAD/2; SAD/2AN; SAD/3; SAD/3AN
<p>Serie: AID Series:</p> <p>Modello/i: Elettrodi attivi monopolari (aghi sottili) per elettrochirurgia Model(s):</p> <p>Codici / Codes:</p> <ul style="list-style-type: none"> • AID

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<p>Categoria di dispositivo: Accessori per elettrobisturi Device category: Accessories for electro-surgical units</p>
<p>Serie: SAD e AID Series:</p> <p>Modello/i: Mandrino riduttore per aghi Model(s):</p> <p>Codici / Codes:</p> <ul style="list-style-type: none"> • MID
<p>Serie: EL/MLH Series:</p> <p>Modello/i: Elettrodi attivi monopolari riusabili per laparoscopia Model(s):</p> <p>Codici / Codes:</p> <ul style="list-style-type: none"> • EL/MLH-J; EL/MLH-L
<p>Serie: PMC e PBC Series:</p> <p>Modello/i: Pinze bipolari isolate standard Model(s):</p> <p>Codici / Codes:</p> <ul style="list-style-type: none"> • PMC/JR; PMC/JC; PMC/RS; PMC/CS; PMC/R; PMC/C; PMC/R25; PMC/C25; PMC/RSB; PMC/B; PMC/B25; PMC/BCD; PMC/BCU • PBC/R; PBC/C; PBC/R25; PBC/C25; PBC/B; PBC/B25; PBC/BCD; PBC/BCU
<p>Serie: PMC/L e PBC/L Series:</p> <p>Modello/i: Pinze bipolari isolate con irrigazione Model(s):</p> <p>Codici / Codes:</p> <ul style="list-style-type: none"> • PMC/JRL; PMC/JCL; PMC/RSL; PMC/CSL; PMC/RL; PMC/CL; PMC/R25L; PMC/C25L; PMC/RSBL; PMC/BL; PMC/B25L; PMC/BCDL; PMC/BCUL • PBC/RL; PBC/CL; PBC/R25L; PBC/C25L; PBC/BL; PBC/B25L; PBC/BCDL; PBC/BCUL
<p>Serie: PBC/ns, PMC/ns Series:</p> <p>Modello/i: Pinze bipolari isolate con punte no-stick Model(s):</p> <p>Codici / Codes:</p> <ul style="list-style-type: none"> • PMC/JRns; PMC/JCns; PMC/RSns; PMC/CSns; PMC/R15ns; PMC/C15ns; PMC/Rns; PMC/Cns; PMC/R25ns; PMC/C25ns; PMC/RSBns; PMC/B16ns; PMC/Bns; PMC/B25ns; PMC/BCDns; PMC/BCUns; • PBC/Rns; PBC/Cns; PBC/R25ns; PBC/C25ns; PBC/Bns; PBC/B25ns; PBC/BCDns; PBC/BCUns

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<p>Categoria di dispositivo: Accessori per elettrobisturi Device category: Accessories for electrosurgical units</p>
<p>Serie: EB Series:</p> <p>Modello/i: Elettrodi bipolari isolati rigidi Model(s):</p> <p>Codici / Codes:</p> <ul style="list-style-type: none"> EBT; EBT20; EBT22; EBL; EBL16,5; EBA45; EBA90; EBD18; EBD20; EBD22
<p>Serie: EL/BL Series:</p> <p>Modello/i: Elettrodi bipolari isolati rigidi per laparoscopia Model(s):</p> <p>Codici / Codes:</p> <ul style="list-style-type: none"> EL/BL-J; EL/BL-J45; EL/BL-L; EL/BL-L45; EL/BL-DL; EL/BL-DV; EL/BL-DN
<p>Serie: BITecD Series:</p> <p>Modello/i: Forbici bipolari isolate con lame delicate Model(s):</p> <p>Codici / Codes:</p> <ul style="list-style-type: none"> BITecD-18; BITecD-21; BITecD-23; BITecD-28
<p>Serie: BCS e BC Series:</p> <p>Modello/i: Pinze "clamps" bipolari isolate Model(s):</p> <p>Codici / Codes:</p> <ul style="list-style-type: none"> BCS-15; BCS-19; BCS-S19; BCS-S23 BC-16; BC-20; BC-23; BC-26
<p>Serie: POWER GRIP Series:</p> <p>Modello/i: Strumenti bipolari isolati per laparoscopia Model(s):</p> <p>Codici / Codes:</p> <ul style="list-style-type: none"> POWER GRIP – LGF; 82400010; POWER GRIP – MFG; 82400014; POWER GRIP – FGC; 82400015; POWER GRIP – DCG; 82400011; POWER GRIP – MD; 82400019; POWER GRIP – CMS; 82400018
<p>Serie: CPB e CPB/E Series:</p> <p>Modello/i: Cavi di collegamento per pinze, elettrodi, strumenti bipolari Model(s):</p> <p>Codici / Codes:</p> <ul style="list-style-type: none"> CPB; CPB/5; CPB/U; CPB/U5; CPB/MU; CPB/MU5; CPB/RU; CPB/RU5; CPB/E; CPB/E5; CPB/EM; CPB/EM5; CPB/ER; CPB/ER5; CPB/EU; CPB/EU5; CPB/EE; CPB/EE5; CPB/EE-4; CPB/EE5-4; CPB/EEM; CPB/EEM5; CPB/EES; CPB/EES5; CPB/EST; CPB/E-WMS; CPB/WMS

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<p>Categoria di dispositivo: Accessori per elettrobisturi Device category: Accessories for electrosurgical units</p>
<p>Serie: CPB/tec e CPB/E-tec Series:</p> <p>Modello/i: Cavi di collegamento per forbici bipolari isolate Model(s):</p> <p>Codici / Codes:</p> <ul style="list-style-type: none"> • CPB/E-tec; CPB/E-tec5; • CPB/tec; CPB/tec5; CPBS/tec; CPBS/tec5; CPBM/tec; CPBM/tec5; CPBV/tec; CPBV/tec5
<p>Serie: PMI, PIC, PMI/P, FI e CFI Series:</p> <p>Modello/i: Pinze (con collegamento all'elettrobisturi e utilizzo mediante comando a pedale) Model(s):</p> <p>Codici / Codes:</p> <ul style="list-style-type: none"> • PMI/1; PMI/1-20; PMI/1-25; PMI/1C25; PMI/2; PMI/2-25; PMI/B1-18; PMI/B2-18; PMI/B1; PMI/B; PMI/DB1-20; PMI/DB1-25; PMI/DB2-20; PMI/DB2-25 <p>Modello/i: Pinze (senza collegamento all'elettrobisturi e utilizzo mediante contatto) Model(s):</p> <p>Codici / Codes:</p> <ul style="list-style-type: none"> • PIC/1; PIC/1-25; PIC/2; PIC/2-25; PIC/B1-18; PIC/B2-18; PIC/B1; PIC/B; PIC/DB1-20; PIC/DB1-25; PIC/DB2-20; PIC/DB2-25 <p>Modello/i: Pinze (con collegamento all'elettrobisturi e utilizzo mediante comando manuale) Model(s):</p> <p>Codici / Codes:</p> <ul style="list-style-type: none"> • PMI/PB; PMI/PB14; PMI/PB19; PMI/PJ18; PMI/PJ21; PMI/PJ24 <p>Modello/i: Forbici (con collegamento all'elettrobisturi e utilizzo mediante comando a pedale) Model(s):</p> <p>Codici / Codes:</p> <ul style="list-style-type: none"> • FI/18; FI/18C; FI/24; FI/24C; FI/W18; FI/W18C; FI/W24; FI/W24C <p>Modello/i: Cannule di aspirazione (con collegamento all'elettrobisturi e utilizzo mediante comando a pedale) Model(s):</p> <p>Codici / Codes:</p> <ul style="list-style-type: none"> • CFI/1; CFI/2; CFI/3
<p>Serie: EL/ML Series:</p> <p>Modello/i: Strumenti attivi monopolari riutilizzabili per laparoscopia Model(s):</p> <p>Codici / Codes:</p> <ul style="list-style-type: none"> • EL/ML-J; EL/ML-JS; EL/ML-L; EL/ML-LS

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<p>Categoria di dispositivo: Accessori per elettrobisturi Device category: Accessories for electro-surgical units</p>
<p>Serie: CPI, CPE, CEP3, CEP4M e CEP4 Series:</p> <p>Modello/i: Cavi di collegamento per strumenti/elettrodi monopolari Model(s):</p> <p>Codici / Codes:</p> <ul style="list-style-type: none"> • CPI; CPI/5; CPI-M4; CPI/5-M4; CPI-M6; CPI-M8; CPI/SM; CPI/L • CPE/5; CPE-M4; CPE/5-M4; CPE-M6; CPE-M8; • CEP3; CEP3/5; CEP3-M4; CEP3/5-M4; CEP3-M6; CEP3-M8; • CEP4M; CEP4M/5; CEP4M-M4; CEP4M/5-M4; CEP4M-M6; CEP4M-M8; • CEP4; CEP4/5; CEP4-M4; CEP4/5-M4; CEP4-M6; CEP4-M8
<p>Serie: NP/A e EIP Series:</p> <p>Modello/i: Elettrodi neutri con cavi di collegamento Model(s):</p> <p>Codici / Codes:</p> <ul style="list-style-type: none"> • EIP/9; EIP/9-5; EIP/S; • NP/A; NP/A5
<p>Serie: CMS/E Series:</p> <p>Modello/i: Cavi di collegamento per elettrodi neutri Model(s):</p> <p>Codici / Codes:</p> <ul style="list-style-type: none"> • CMS/E; CMS/E5; CMS/EA; CMS/EA5; CMS/EEN; CMS/E5EN
<p>Serie: NP/GA e NP/GP Series:</p> <p>Modello/i: Elettrodi neutri in gomma conduttiva Model(s):</p> <p>Codici / Codes:</p> <ul style="list-style-type: none"> • NP/GA • NP/GP
<p>Serie: AC/E Series:</p> <p>Modello/i: Manico AC/HANDLE ed elettrodi attivi rigidi per chirurgia con gas argon Model(s):</p> <p>Codici / Codes:</p> <ul style="list-style-type: none"> • AC/HANDLE; AC/E25-C; AC/E100-C; AC/E320-C; AC/E320-H; AC/E40-A; AC/E100-A; AC/E40-L; AC/E100-L

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Categoria di dispositivo: Accessori per elettrobisturi Device category: Accessories for electro-surgical units
Serie: AC/FP Series:
Modello/i: Cavo di collegamento AC/CABLE ed elettrodi attivi flessibili per chirurgia con gas argon Model(s):
Codici / Codes: <ul style="list-style-type: none">AC/CABLE; AC/FP1; AC/FP1-5; AC/FP2; AC/FP3; AC/FP3s; AC/FP3-5; AC/FP4; AC/FP4-5

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Categoria di dispositivo: Aspiratori di fumi elettrochirurgici Device category: Electrosurgical smoke evacuators
Serie: CS Series: CS
Modello/i: CS200; Model(s): CS200LC; CS900LC

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<p>Categoria di dispositivo: Elettrobisturi Device category: Electrosurgical unit</p>
<p>Serie: ALSATOM Series:</p> <p>Modello/i: ALSATOM SU 50-MPC; Model(s): ALSATOM SU 100-MPC; ALSATOM SU 140-MPC; ALSATOM SU 140/D-MPC; ALSATOM SU 140/BD-MPC; ALSATOM SU 140/D-MPC (100V-60Hz).</p>
<p>Serie: MCDSe Series:</p> <p>Modello/i: EXCELL 200 MCDSe; Model(s): EXCELL 250 MCDSe; EXCELL 350 MCDSe; EXCELL 400 MCDSe; EXCELL 400/A MCDSe</p>
<p>Serie: NHP Series:</p> <p>Modello/i: EXCELL NHP 250/D; Model(s): EXCELL NHP 350/D; EXCELL NHP 400/D; EXCELL NHP 250/DA; EXCELL NHP 400/DA; EXCELL NHP ENDOMED</p>
<p>Serie: NHP/T Series:</p> <p>Modello/i: EXCELL NHP/T-400; Model(s): EXCELL NHP/T-200; EXCELL NHP/TA-400; EXCELL NHP/TA-200</p>
<p>Serie: TopTom Series:</p> <p>Modello/i: TopTom SU 50; Model(s): TopTom SU 100; TopTom SU 140; TopTom SU 140/D</p>



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Marca Trade mark:	BUTTERFLY ITALIA
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Categoria di dispositivo: Device category:	Elettrobisturi Electrosurgical unit
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Modello/i: Model(s):	BIPOLAR HF 100; BIPOLAR HF 140.
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Marca Trade mark:	TONTARRA
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Categoria di dispositivo: Device category:	Elettrobisturi Electrosurgical unit
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Modello/i: Model(s):	PWT-400
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Marca
Trade mark: **AMNOTEC**

Categoria di dispositivo: **Elettrobisturi**
Device category: **Electrosurgical unit**

Serie: **AMNOTOM**
Series:

Modello/i: **AMNOTOM 160 BASE;**
Model(s): **AMNOTOM 400 COMPACT;**
AMNOTOM 400 PREMIUM;
AMNOTOM 400 PREMIUM A

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Marca Trade mark:	ZACCANTI S.p.A.
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Categoria di dispositivo: Device category:	Elettrobisturi Electrosurgical unit
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Modello/i: Model(s):	BIPOGYN
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Marca Trade mark:	EFER ENDOSCOPY
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Categoria di dispositivo: Device category:	Elettrobisturi Electrosurgical unit
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Modello/i: Model(s):	SIRIUS 900
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Marca Trade mark:	MEDICAL SWAN
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Categoria di dispositivo: Device category:	Elettrobisturi Electrosurgical unit
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Modello/i: Model(s):	PULSAR MB350
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