

## **EXCELL NHP/T**

# ELECTROSURGICAL UNITS FOR MONOPOLAR AND BIPOLAR USE



A NEW STEP AHEAD
TO THE FUTURE





# The units EXCELL NHP/T series are provided with all the technical features, and the monopolar and bipolar currents needed to perform the most advanced electrosurgery

All models are provided	with 10 currents for the monopolar cutting
Pure Cut	Pure cut without coagulating effect. For open or laparoscopic surgery and for under liquid endoscopy (TURP, TURV).
Blend Cut 1	Cut blended with a medium coagulating effect. For open or laparoscopic surgery and for under liquid endoscopy (TURP, TURV).
Blend Cut 2	Cut blended with a very high coagulating effect. For open or laparoscopic surgery.
Pure Cut Pulsed	Pulsed pure cut without coagulating effect. For open or laparoscopic surgery.
Blend Cut Pulsed	Pulsed cut blended with a medium coagulating effect. For open or laparoscopic surgery.
Auto Pure Cut Micro	"Constant voltage" delicate pure cut without coagulating effect. For open or laparoscopic surgery and for under liquid endoscopy (TURP, TURV).
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, TURV).
Auto Papillo 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 cutting and blended cut, for flexible endoscopy.  With four modes of delivery: 90% Coagulation and 10% Cut, 80% Coagulation and 20% Cut, 75% Coagulation and 25% Cut, 50% Coagulation and 50% Cut.
All models are provided	with 5 currents for the monopolar coagulation
Fulg Forced Coag	High voltage, contact free coagulation. For open or laparoscopic surgery, for under liquid endoscopy (TURP, TURV) and for flexible endoscopy.
Spray Coag	Very high voltage, contact free coagulation. For open or laparoscopic surgery, for under liquid endoscopy (TURP, TURV) and for flexible endoscopy.
Pulsed Spray Coag	Identical to the Spray coag current, but pulsed and more delicate.
Pin Point Contact Coag	Medium voltage, contact coagulation. For open or laparoscopic surgery, for under liquid endoscopy (TURP, TURV) and for flexible endoscopy.
Soft Micro Coag	Delicate, low voltage coagulation. For open or laparoscopic surgery.
The models NHP/TA-400	and NHP/TA-200 are provided with 2 currents for the Argon coagulation
Standard	Very fast and efficacious coagulation ( <b>Spray Coag</b> current enhanced by the Argon gas). For open or laparoscopic surgery and for flexible endoscopy.
Pulsed	Identical to the <b>Standard</b> current, but more delicate. ( <b>Pulsed Spray Coag</b> current enhanced by the Argon gas).
All models are provided	with 4 currents for the bipolar cutting
Standard Bicut	Cut for open or laparoscopic surgery.
Blend Bicut	Cut blended with a very high coagulating effect (Coagulation = 95%) for open or laparoscopic surgery.
Saline Uro-Gyn Cut	Cut for endoscopy in saline (TURPis, TURVis) with two modes of delivery: continuous and pulsed. For urology and gynaecology. The continuous delivery is suitable to perform the vaporization.
Saline Arthro Cut	Cut for arthroscopy in saline with two modes of delivery: continuous and pulsed. For arthroscopy. The continuous delivery is suitable to perform the vaporization.
All models are provided	with 3 currents for the bipolar coagulation and 2 currents for the bipolar vessel sealing
Soft Micro Bicoag	Very precise and delicate coagulation. For open or laparoscopic surgery, for endoscopy in saline (TURPis, TURVis) and for flexible endoscopy.
Forced Macro Bicoag	Fast coagulation. For open or laparoscopic surgery.
Auto Soft Micro Bicoag	Identical to the <b>Soft Micro Bicoag</b> , but with <i>Impedance sensing</i> automatic activation/deactivation.  It is not suitable for the endoscopy in saline.  Activation with delay adjustable from 0 to 5 seconds and deactivation with bitonal, grave, acoustic signal.
Sealing	Current to coagulate/seal vessels up to 8 mm in open and laparoscopic surgery. Activation with pedal and automatic <i>Impedance sensing</i> deactivation with bitonal, acute, acoustic signal.
Auto Sealing	Identical to the <b>Sealing</b> , but with <i>Impedance sensing</i> automatic activation/deactivation.  It is not suitable for the endoscopy in saline.  Activation with delay adjustable from 0 to 5 seconds and deactivation with bitonal, grave, acoustic signal.

### Technical features of all models

HF generator	Meets IEC 60601-1 and IEC 60601-2-2 (Latest editions). Supply section "switching" type.
EMC compatibility	Meets IEC 60601-1-2 (Latest edition).
EC Classification and approval	Class IIB according to 93/42/CEE (and its revised version) – Certificate nr. 187/MDD (IMQ 0051).
ALSA quality system	Meets ISO 9001 and ISO 13485 (Latest editions). Certificates 9120.ALSA and 9124.ALS2 (IMQ 0051).
Classification according to IEC 60601-1	Class I, CF type with the following typical low frequency leakage currents (all cables tied together): On the patient: $4\mu A = 0.004 \text{mA} / \text{Into the enclosure: } 1\mu A = 0.001 \text{mA} / \text{To earth: } 30\mu A = 0.03 \text{mA}.$
Output circuit according to IEC 60601-2-2	FLOATING (Isolated at high and low frequencies) and protected against the use of the defibrillator.  Typical HF leakage currents measured at the unit: Monopolar currents = 90mA, Bipolar currents = 60mA.
Working frequency	Monopolar and bipolar currents: 440kHz ± 5%.
Functioning control	Computerized MASTER/SLAVE SYSTEM  • It performs a <i>Main Auto-check</i> at the switching ON (repeated every 30 minutes of operation) and the continuous <i>Standard Auto-check</i> during use.  • It stops the power activation in case of hardware/software failures, mistakes of use, an anomalous power delivery, and it signals them by acoustic and visual <i>Error Codes</i> .  • It memorizes all <i>Error Codes</i> to help the check and the technical assistance.
Self-adjusting of output powers	Computerized self-adjustment with PER (Power Efficiency Rating > 98%) according to the impedances of tissues (Feed-back in real time - 7000 times/sec) by two different systems:  • ADC System – Dynamic self-adjustment with constant power  The powers have a progressive setting (Micro and Macro setting with steps from 0,1 to 10W).  Monopolar currents (from 1 to 10W), Bipolar currents (from 0,1W to 5W).  • APC System - Fully automatic control  The powers have a setting with 10 effects (the unit shows, for each effect, the maximum delivered power).
Control of the HF leakage currents	By a specific computerized circuit with alarms.
Memorization of programs	100 programs identifiable by number and text (Surgical use or Name of the surgeon).
Usable pencils or instruments	All models allow the following use of the monopolar and bipolar accessories:  • One/two either hand-switched or foot-switched monopolar pencils or instruments.  Two monopolar pencils can be used simultaneously according to IEC 60601-2-2.  • One/two bipolar instruments by foot-switch activation (When selecting the Auto Soft Micro Bicoag or the Auto Sealing currents, an instrument is usable by the Impedance sensing automatic activation/deactivation).  The models TA-400 and TA-200 allow, when the Argon section is ON, the use also of the following:  • One hand-switched or foot-switched pencil/instrument for the Argon enhanced electro-surgery.
Twin foot-switches	<ul> <li>The unit can be used by either one or two waterproof (IPN8) twin foot-switches.</li> <li>Only with one twin foot-switch (DS/Esw or DS/Eswl, large model for the use in endoscopy) with a Foot-selector to activate either the monopolar or the bipolar currents.</li> <li>Only with one twin foot-switch (DS/B) to activate the bipolar currents only.</li> <li>With both twin foot-switches, one to activate the monopolar currents and one to activate the bipolar ones.</li> </ul>
Control circuit of the neutral electrode	NPCC System with double circuit: Contact quality monitor and Continuity monitor with four progressive alarm lights and stop of the power delivery. The circuit operates as follows:  • It checks all kinds of neutral electrode, both "split" double area and "non split" single area.  • It has two modes of use: Large electrodes for adults and Small electrodes for paediatrics and new-born.  • It allows the use of cables with both European "Ø 6,35mm" and USA "2 pins" connectors.
Luminous and acoustic signals of activation and alarm	They meet IEC 60601-2-2 (Latest edition).  Lights: Cutting = yellow, Coagulation = blue, Alarms and Error codes = red  Activation sounds: Continuous (acute for the cut and grave for the coagulation, with level adjustable from 45 to 65dB), including a bitonal sound to indicate the power deactivation when using the currents:  Auto Soft Micro Bicoag, Sealing and Auto Sealing. Alarm sound: Intermittent (High >65dB and not adjustable).
Mains supply and consumption, Mains switch, Fuses and Standby	$100 / 230V \pm 10\% \sim 50/60$ Hz (Consumption: Max. 3,6A = 828VA, Standby 0,4A = 92VA). Bipolar switch (green), Two fuses 8A, Standby mode selectable on the touch-screen.
Equipotential connection	Standard DIN 42801 plug.
Enclosure, Cooling	Metal painted case, protected against the spilling of liquids according to IEC 60601-2-2. Cooling by convection (No fan).
Software updating and calibration	Updating by a serial port connected to a PC, calibration on-site.
Dimensions and weight (LxWxH)	NHP/T-400 and T-200: 38x35x19cm - 10Kg — NHP/TA-400 and TA-200: 38x38x19cm - 10,5Kg.
Technical features of the	e Argon gas section (Models TA-400 and TA-200 only)
Gas (Supply)	By 1 or 2 cylinders (5lt) or by centralized supply with max pressure of 4,5 atm.
Gas (Antibacterial protection)	Antibacterial filter on the gas output.
Gas (Working pressure and Flow)	Pressure: 2 atm. Flow: Max 15lt/min, adjustable from 1 to 15 lt/min and self-adjusted.
Gas (Pressure, Consumption)	By the main Auto-check system of the unit and Pressure Safety System.  It blocks the usability of the Argon section either if the gas is absent/not sufficient or its pressure is too high, by informing the users through alarms and Error Codes. The system includes a pressure reducer and a safety valve.

### **EXCELL NHP/T-400** and **EXCELL NHP/TA-400** – THE CURRENTS

MONOPOLAR CL	ITTING											
		lend Cut 1	Blend Cut 2	Pure Cut Pulsed	Blend Cut Pulsed	Auto P Cut Mi		Auto Blend Cut Micro	Auto Papillo Pure Cut	Auto Polipo Blend Cut	Auto Endocut	
Max Output Power	400 W	300 W	250 W	400 W	250 W	300	W	300 W	300 W	300 W	300 W	
Rated load	400 Ω	400 Ω	400 Ω	400 Ω	400 Ω	300	Ω	300 Ω	300 Ω	300 Ω	300 Ω	
Vpp	2550	3390	3330	2640	3330	113	7	1500	1140	1490	1670	
Crest factor	1,46	1,94	2,29	2	3,2	1,5		1,98	1,5	1,98		
Modulation	0	17 kHz	17 kHz	3 Hz	50 Hz	0		17 kHz	0	17 kHz	-	
Duty Cycle	100%	95%	65%	50%	50%	100	%	90%	100%	95%		
Power setting	Progressive wit	:h steps fro	om 1 to 10 W					10 Effects				
Power control	ADC System - D	ynamic se	elf-adjusting	with constant p	ower			APC System -	Totally self-adjı	usting with con	stant voltage	
MONOPOLAR CO	AGULATION	J										
	Fulg Forced Coa	g Spr	ay Coag	Pin Point Contact Coag	Pulsed Sp	ray Coag			Soft Micro	Coag		
Max Output Power	150 W	150 W 200 W 300 W 200 W							280 V	V		
Rated load	300 Ω	7	00 Ω	400 Ω	700	Ω			300 Ω	Σ		
Vpp	4500	7	7750	3700	78	50			3300			
Crest factor	6,45	:	7,75	2,2	11,	54			2,16			
Modulation	60 kHz	30	0 kHz	17 kHz	3 H	Ηz			17 kH	z		
Duty Cycle	18%		7%	85%	50	%			75%			
Power setting	Progressive wit	h steps fro	om 1 to 10 W				10	Effects				
Power control	ADC System - D	ynamic se	elf-adjusting	with constant p	ower		AP	C System - Tota	ally self-adjust	ing with const	ant voltage	
ARGON PLASMA	COAGULAT	ION (M	odel NHP	P/TA-400 on	ly)							
		Spray	Coag + Gas	Argon				Pulsed Sp	ray Coag + G	as Argon		
Max Output Power			200 W				200 W					
Rated load			700 Ω						700 Ω			
Vpp	7750 7850											
Crest factor			7,75						11,54			
Modulation	30 kHz							3 Hz				
Duty Cycle			7%						50%			
Power setting	Progressive wit	h steps fro	om 1 to 10 W									
Gas setting	From 1 to 15 Lt	/min										
Power control	ADC System – [	Dynamic s	elf-adjusting	with constant p	ower							
<b>BIPOLAR CUTTIN</b>	G											
	Saline Ur	o-Gyn Cut	:	Saline Arthro	Cut		Stan	dard Bicut		Blend Bic	ut	
Max Output Power	350	0 W		230 W				200 W		160 W		
Rated load	35	0 Ω		350 Ω				300 Ω		200 Ω		
Vpp	10	70		1070				1070		740		
Crest factor	1	,5		1,5				1,5		1,57		
Modulation		0		0				0		17 kHz		
Duty Cycle	10	0%		100%				100%		95%		
Power setting	10 Effects			Progre:				essive with steps from 0,1 to 5 W				
Power control	ADC System - D	ynamic se	elf-adjusting	with constant p	ower							
<b>BIPOLAR COAGU</b>	LATION AND	O VESSI	EL SEALII	NG								
	Soft Micro Bico	_	Soft Micro Bicoag	Sealing	Auto Sea	aling		ļ	Forced Macro	Bicoag		
Max Output Power	140 W		140 W	320 W	320\	320 W			200 W			
Rated load	100 Ω		100 Ω	50 Ω	50 Ω	Ω	100 Ω					
Vpp	460		460	780	780				550			
Crest factor	1,56		1,56	2,47	2,47	,	1,6					
Modulation	0		0	0	0				0			
Duty Cycle	100%		100%	100%	1009	6			100%			
Power setting	Progressive wit	h steps fro		10 Effects			rogre	essive with st	eps from 0,1 t	o 5 W		
							,		•			

APC System - Totally self-adjusting with constant voltage

ADC System - Dynamic self-adjusting with constant power

Power control

### **EXCELL NHP/T-200** and **EXCELL NHP/TA-200** – THE CURRENTS

<b>MONOPOLAR CU</b>	TTING										
		Blend Cut 1	Blend Cut 2	Pure Cut	Blend Cut	Auto Pu	ıre	Auto Blend	Auto Papillo	Auto Polipo	Auto
				Pulsed	Pulsed	Cut Mic	-	Cut Micro	Pure Cut	Blend Cut	Endocut
Max Output Power	200 W	200 W	200 W	200 W	200 W	200 V	-	200 W	200 W	200 W	200 W
Rated load	400 Ω	400 Ω	400 Ω	400 Ω	400 Ω	300 Ω		300 Ω	300 Ω	300 Ω	300 Ω
Vpp	2550	3390	3330	2640	3330	1137	7	1500	1140	1490	1670
Crest factor	1,46	1,94	2,29	2	3,2	1,5		1,98	1,5	1,98	
Modulation	0	17 kHz	17 kHz	3 Hz	50 Hz	0		17 kHz	0	17 kHz	-
Duty Cycle	100%	95%	65%	50%	50%	100%	-	90%	100%	95%	
Power setting	Progressive w							10 Effects			
Power control	ADC System – Dynamic self-adjusting with constant power  APC System - Totally self-adjusting with constant volta										stant voltage
MONOPOLAR CO	AGULATIO	N					1				
	Fulg Forced Co	oag Spr	ay Coag F	in Point Contact Co	ag Pulsed Sp	oray Coag			Soft Micro	Coag	
Max Output Power	150 W 200 W 200 W 200 W					) W			200 V	V	
Rated load	300 Ω	7	00 Ω	400 Ω	700	ΩΩ			300 🖸	)	
Vpp	4500	7	7750	3700	78	50			2875	i	
Crest factor	6,4		7,75	2,2	11,	,54			2,1		
Modulation	60 kHz	3	0 kHz	17 kHz	3	Hz			17 kH	z	
Duty Cycle	18%		7%	85%	50	)%			75%		
Power setting	Progressive w	ith steps fro	om 1 to 10 W				10 Ef	fects			
Power control	ADC System -	Dynamic se	elf-adjusting v	with constant	power		APC S	<b>System</b> - Tota	ally self-adjusti	ing with const	ant voltage
<b>ARGON PLASMA</b>	COAGULAT	TION (M	odel NHP	/TA-200 o	nly)						
		Spray	Coag + Gas	Argon				Pulsed Sp	oray Coag + G	as Argon	
Max Output Power			200 W				200 W				
Rated load			700 Ω				700 Ω				
Vpp			7750						7850		
Crest factor			7,75						11,54		
Modulation			30 kHz						3 Hz		
Duty Cycle			7%						50%		
Power setting	Progressive w	ith steps fro	om 1 to 10 W								
Gas setting	From 1 to 15 l										
	FIOIII I to 13 I	Lt/min									
Power control	ADC System -		elf-adjusting v	with constant	power						
	ADC System -		elf-adjusting v	with constant	power						
Power control	ADC System -	Dynamic se					Stand	ard Ricut		Rlend Ric	ut
Power control BIPOLAR CUTTIN	ADC System - G Saline U	Dynamic so		Saline Arthr	o Cut			ard Bicut		Blend Bio	ut
Power control BIPOLAR CUTTIN  Max Output Power	ADC System -  G  Saline U	Dynamic se Jro-Gyn Cut 50 W		Saline Arthr	o Cut		2	00 W		160 W	ut
Power control BIPOLAR CUTTIN  Max Output Power Rated load	ADC System -  G  Saline U	Dynamic se Jro-Gyn Cut 50 W		Saline Arthr 230 W 350 Ω	o Cut		3	00 W 00 Ω		160 W 200 Ω	ut
Power control BIPOLAR CUTTIN  Max Output Power Rated load Vpp	ADC System -  Saline U  3  3  1	Dynamic see  Jro-Gyn Cut  50 W  150 Ω		Saline Arthr 230 W 350 Ω 1070	o Cut		3	00 W 00 Ω 070		160 W 200 Ω 740	ut
Power control BIPOLAR CUTTIN  Max Output Power Rated load Vpp Crest factor	ADC System -  Saline U  3  3  1	Dynamic see  Jro-Gyn Cut  50 W  50 Ω  1070  1,5		Saline Arthr 230 W 350 Ω 1070 1,5	o Cut		3	00 W 00 Ω 070 1,5		160 W 200 Ω 740 1,57	ut
Power control BIPOLAR CUTTIN  Max Output Power Rated load  Vpp  Crest factor Modulation	ADC System - G Saline U 3 3	Dynamic see Jro-Gyn Cut 50 W 150 Ω 1070 1,5 0		Saline Arthr 230 W 350 Ω 1070 1,5 0	o Cut		3	00 W 00 Ω 070 1,5		160 W 200 Ω 740 1,57 17 kHz	ut
Power control BIPOLAR CUTTIN  Max Output Power Rated load Vpp Crest factor Modulation Duty Cycle	ADC System -  Saline U  3  3  1	Dynamic see  Jro-Gyn Cut  50 W  50 Ω  1070  1,5		Saline Arthr 230 W 350 Ω 1070 1,5	o Cut		20	00 W 00 Ω 070 1,5 0	om 0.1 to 5 W	160 W 200 Ω 740 1,57	ut
Power control BIPOLAR CUTTIN  Max Output Power Rated load  Vpp Crest factor Modulation Duty Cycle Power setting	ADC System -  G Saline U  3  1  10 Effects	Dynamic set Jro-Gyn Cut 50 W 50 Ω 1070 1,5 0 00%		Saline Arthr 230 W 350 Ω 1070 1,5 0 100%	o Cut		20	00 W 00 Ω 070 1,5 0	om 0,1 to 5 W	160 W 200 Ω 740 1,57 17 kHz	ut
Power control BIPOLAR CUTTIN  Max Output Power Rated load  Vpp Crest factor Modulation Duty Cycle Power setting Power control	ADC System -  Saline U  3  3  1  10 Effects  ADC System -	Dynamic set  Jro-Gyn Cut  50 W  50 Ω  1070  1,5  0  00%	elf-adjusting	Saline Arthr 230 W 350 Ω 1070 1,5 0 100% with constant	o Cut		20	00 W 00 Ω 070 1,5 0	om 0,1 to 5 W	160 W 200 Ω 740 1,57 17 kHz	ut
Power control BIPOLAR CUTTIN  Max Output Power Rated load  Vpp Crest factor Modulation Duty Cycle Power setting	ADC System -  Saline U  3  3  1  10 Effects  ADC System -	Dynamic set  Jro-Gyn Cut  50 W  50 Ω  1070  1,5  0  00%  - Dynamic set  ND VESS	elf-adjusting	Saline Arthr 230 W 350 Ω 1070 1,5 0 100% with constant	o Cut	Progress	20	00 W 00 Ω 070 1,5 0 00% with steps fro	om 0,1 to 5 W	160 W 200 Ω 740 1,57 17 kHz 95%	ut
Power control BIPOLAR CUTTIN  Max Output Power Rated load  Vpp Crest factor Modulation Duty Cycle Power setting Power control BIPOLAR COAGU	ADC System -  G Saline U  3  1  10 Effects ADC System -  LATION AN  Soft Micro Bic	Dynamic set  Jro-Gyn Cut  50 W  50 Ω  1070  1,5  0  00%  - Dynamic set  ND VESS	elf-adjusting EL SEALING O Soft Micro Bicoag	Saline Arthr 230 W 350 Ω 1070 1,5 0 100% with constant	o Cut	Progress	20	00 W 00 Ω 070 1,5 0 00% with steps fro	Forced Macro	160 W 200 Ω 740 1,57 17 kHz 95%	ut
Power control BIPOLAR CUTTIN  Max Output Power Rated load Vpp Crest factor Modulation Duty Cycle Power setting Power control BIPOLAR COAGU  Max Output Power	ADC System - G Saline U 3 3 1 1 10 Effects ADC System - LATION AN Soft Micro Bic	Dynamic set  Jro-Gyn Cut  50 W  50 Ω  1070  1,5  0  00%  - Dynamic set  ND VESS	elf-adjusting EL SEALII D Soft Micro Bicoag 140 W	Saline Arthr  230 W  350 Ω  1070  1,5  0  100%  with constant  NG  Sealing  320 W	o Cut  power  Auto Se	Progress aling	20	00 W 00 Ω 070 1,5 0 00% with steps fro	Forced Macro 200 W	160 W 200 Ω 740 1,57 17 kHz 95%	ut
Power control BIPOLAR CUTTIN  Max Output Power Rated load Vpp Crest factor Modulation Duty Cycle Power setting Power control BIPOLAR COAGU  Max Output Power Rated load	ADC System -  Saline U  3  3  1  10 Effects  ADC System -  LATION AN  Soft Micro Bic  140 W  100 Ω	Dynamic set  Jro-Gyn Cut  50 W  50 Ω  1070  1,5  0  00%  - Dynamic set  ND VESS	elf-adjusting EL SEALIR D Soft Micro Bicoag 140 W 100 Ω	Saline Arthr 230 W 350 Ω 1070 1,5 0 100% with constant NG Sealing 320 W 50 Ω	o Cut  power  Auto Se  320 503	Progress:	20	00 W 00 Ω 070 1,5 0 00% with steps fro	Forced Macro 200 W 100 Ω	160 W 200 Ω 740 1,57 17 kHz 95%	ut
Power control BIPOLAR CUTTIN  Max Output Power Rated load Vpp Crest factor Modulation Duty Cycle Power setting Power control BIPOLAR COAGU  Max Output Power	ADC System - G Saline U 3 3 1 1 10 Effects ADC System - LATION AN Soft Micro Bic	Dynamic set  Jro-Gyn Cut  50 W  50 Ω  1070  1,5  0  00%  - Dynamic set  ND VESS	elf-adjusting EL SEALII D Soft Micro Bicoag 140 W	Saline Arthr  230 W  350 Ω  1070  1,5  0  100%  with constant  NG  Sealing  320 W	o Cut  power  Auto Se	Progress:	20	00 W 00 Ω 070 1,5 0 00% with steps fro	Forced Macro 200 W 100 Ω 550	160 W 200 Ω 740 1,57 17 kHz 95%	ut
Power control BIPOLAR CUTTIN  Max Output Power Rated load Vpp Crest factor Modulation Duty Cycle Power setting Power control BIPOLAR COAGU  Max Output Power Rated load Vpp Crest factor	ADC System -  G  Saline U  3  3  1  10 Effects  ADC System -  LATION AN  Soft Micro Bio  140 W  100 Ω  460  1,56	Dynamic set  Jro-Gyn Cut  50 W  50 Ω  1070  1,5  0  00%  - Dynamic set  ND VESS	elf-adjusting EL SEALIN D Soft Micro Bicoag 140 W 100 Ω 460 1,56	Saline Arthr  230 W  350 Ω  1070  1,5  0  100%  with constant  NG  Sealing  320 W  50 Ω  780  2,47	o Cut  power  Auto Se  320  50 0  780  2,4	Progress  aling	20	00 W 00 Ω 070 1,5 0 00% with steps fro	Forced Macro  200 W  100 Ω  550  1,6	160 W 200 Ω 740 1,57 17 kHz 95%	ut
Power control BIPOLAR CUTTIN  Max Output Power Rated load Vpp Crest factor Modulation Duty Cycle Power setting Power control BIPOLAR COAGU  Max Output Power Rated load Vpp Crest factor Modulation	ADC System -  G  Saline U  3  3  1  10 Effects  ADC System -  LATION AN  Soft Micro Bio  140 W  100 Ω  460  1,56  0	Dynamic set  Jro-Gyn Cut  50 W  50 Ω  1070  1,5  0  00%  - Dynamic set  ND VESS	elf-adjusting EL SEALIR D Soft Micro Bicoag 140 W 100 Ω 460 1,56 0	Saline Arthr  230 W  350 Ω  1070  1,5  0  100%  with constant  NG  Sealing  320 W  50 Ω  780  2,47  0	o Cut  power  Auto Se  320  780  2,44 0	Progress  aling  W  D  T	20	00 W 00 Ω 070 1,5 0 00% with steps fro	Forced Macro  200 W  100 Ω  550  1,6 0	160 W 200 Ω 740 1,57 17 kHz 95%	ut
Power control BIPOLAR CUTTIN  Max Output Power Rated load Vpp Crest factor Modulation Duty Cycle Power setting Power control BIPOLAR COAGU  Max Output Power Rated load Vpp Crest factor	ADC System -  G  Saline U  3  3  1  10 Effects  ADC System -  LATION AN  Soft Micro Bio  140 W  100 Ω  460  1,56	Dynamic set  Jro-Gyn Cut  50 W  50 Ω  1070  1,5  0  00%  - Dynamic s  ND VESS  coag Auto	elf-adjusting EL SEALIN D Soft Micro Bicoag 140 W 100 Ω 460 1,56 0 100%	Saline Arthr  230 W  350 Ω  1070  1,5  0  100%  with constant  NG  Sealing  320 W  50 Ω  780  2,47	o Cut  power  Auto Se  320  50 0  780  2,4	Progress  aling  W  D  7	20 3 1 1 1 1 sive w	00 W 00 Ω 070 1,5 0 00% with steps fro	Forced Macro  200 W  100 Ω  550  1,6	160 W 200 Ω 740 1,57 17 kHz 95%	ut

APC System - Totally self-adjusting with constant voltage

ADC System - Dynamic self-adjusting with constant power

Power control



EXCELL NHP/T-400 with footswitch DS/Esw



EXCELL NHP/T-400 with footswitch DS/Eswl

#### alsa apparecchi medicali s.r.l.

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