

Grazedean Ltd

ARC 300 ELECTROSURGERY GENERATOR ARGON SURGERY COMPATIBLE



FAST ARC Control

Convenient: 100 programs with 20+ pre stored

Clever: continuous self test

Clear: settings at a glance

Safe: EASY patient monitoring

Flexible: outputs for four instruments

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Authorised Distributors For:

BOWA
EINFACH SICHER
SIMPLY SAFE

Introduction to the ARC 300



BOWA's 20 years of experience and the most up-to-date technology combine in the ARC 300 all-in-one unit. Settings for more than 20 standard operations are pre-programmed - and updates are continuously being added. Inside, extremely fast processors ensure that the **ARC CONTROL** is optimally integrated at all times.

Fast: The **ARC CONTROL** regulator adjusts the power output to the necessary minimum for tissue variations and changes in cutting area or speed in every case.

Safe: The **EASY** electrode application system monitors the neutral electrode connected to the patient and signals any change in resistance to the user.

Flexible: 2 monopolar and 2 bipolar outputs enable 4 different instruments to be configured independently.

Clever: The continuous self-test program ISSys monitors all safety-related parameters several hundred times a second and signals any faults.

Convenient: More than 20 of the 100 locations for storing programs are already preprogrammed. They can be shown and hidden as well as named individually. Information can be displayed in different languages as required.

Field of application	Program
Cardiology	DryCUT, Mamaria, SimCOAG, Thorax
ENT surgery	ENT
General surgery	Standard
Gynaecology	Abdominal Ligation, EndoLAP, Hystero
Laparoscopy	EndoLAP Bipolar CUT, EndoLAP II Ligation
Liver surgery	Argon Open, Argon Ligation
Neuro surgery	Micro Neuro
Paediatrics	Micro Pediatric
Plastic surgery	Micro Plastic, Macro Plastic, Local Anesthesia
Thorax surgery	EndoLAP II Ligation, Thorax
Urology	TUR-P, TUR-BT, TUR-VAP, Bipolar TUR

With enhanced programs pre installed offering the surgeon the best choice in the following fields

Urology programs	Cardiology programs	Gastroenterology programs*
TUR-P (prostate resection)	DryCUT	GastroCUT (polypectomy)
TUR-BT (vesical tumours)	SimCOAG	GastroCUT (papillotomy)
TUR-VAP (vaporisation)	Thorax	Argon Flex
Bipolar TUR	Mamaria	

For urologists for underwater cutting, three programs are available in monopolar or bipolar mode.

For Cardiologists three programs with special cutting current are available and two handswitches can be activated simultaneously with SimCOAG.

***The optional programs for gastroenterological** operations the combination of cutting and coagulation current gives optimum results when using polypectomy loops or papillotomes.



Technical specification for ARC 300

Maximum cutting power, short-term	420 watt
Number of types of cutting current	50 + 2 with Gastro / Argon option
Number of types of coagulation current	6 monopolar and 2 bipolar
Arc control via 32-bit microcontroller (RISC)	Yes
Number of displays / indicators	5
Number of foot switches	2
Digital set-up	Yes
Auto Start function for bipolar output	Yes
ARC CONTROL for monopolar cutting	Yes
Neutral electrode monitoring (EASY)	Yes
Impedance window for checking the NE	0 – 200 Ohm
Clock frequency	44 kHz
Continuous system self-test (ISSys)	Yes
Unlimited error memory	Yes
Error documentation display	Yes
Arc suppression for contact coagulation	Yes
Continuous Cut Support (CCS)	Yes
Continuous leakage current monitoring	Yes
Defibrillator checked	Yes

Compendium: Technical specification for high frequency electrosurgical generator ARC 300	
Max. output power for monopolar Cut	300 W
Max. output power for monopolar Coag	120 W
Max. output power for bipolar Coag	120 W
NE safety monitoring (EASY)	Yes
Rated frequency	330 kHz sinusoidal / 1 MHz pulse
Mains connection / max. current consumption	90 V - 110 V / 6.4 A
	198 V - 260 V / 3.2 A
Mains fuse	2x 90 V - 110 V / 8 A slow-acting
	2x 198 V - 260 V / 4 A slow-acting
Mains frequency	50 Hz / 60 Hz
Power consumption in standby mode	25 watts
Max. power consumption at max HF power	500 watts
Equipotential bonding connector	Yes
Storage and transport conditions	
Temperature	-20 °C - +50 °C
Relative humidity	0 - 75 %, non-condensing
Air pressure	500 - 1600 mbar
Operating conditions	
Temperature	10 °C - +40 °C
Relative humidity	30 - 85 %, non-condensing
Air pressure	700 - 1600 mbar
Protection class to	EN 60601-1 I
Type according to	EN 60601-1 CF
Operating mode	10 sec / 30 sec
Classification according to EC Directive 93/42/EEC	
Classification according to EC Directive 93/42/EEC	Class IIb
Dimensions and weights	
External dimensions (W x H x D)	430 x 180 x 400 mm
Weight	14 kg

Introduction to the ARC PLUS



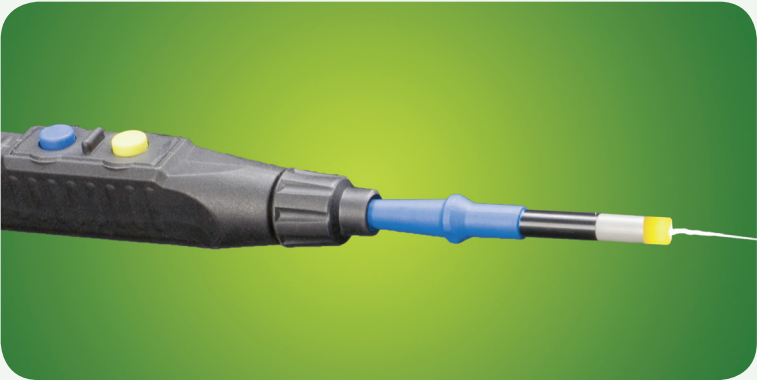
From stand-alone to a complete workstation

The Argon Plasma coagulation feature of the ARC PLUS ideally complements the range of ARC HF generators. Argon-assisted HF spray coagulation ignites even in the extremely low power range below 10 watts. The low coagulation depth with only superficial necrosis is outstandingly suitable for coagulation in areas at risk of perforation. Non-contact working prevents electrodes from sticking. Various accessories are available for the different Argon Plasma coagulation programs.

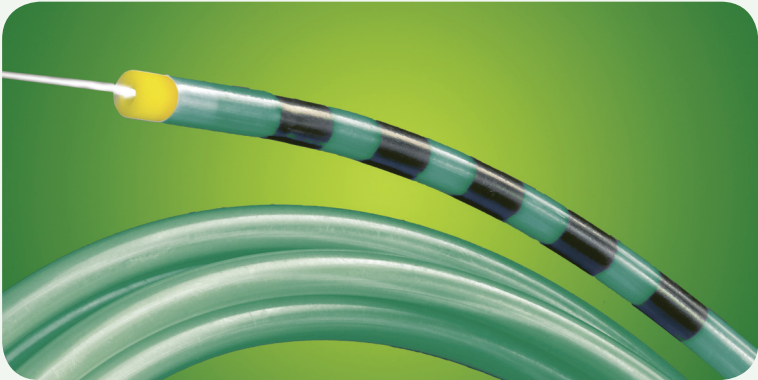
Fields of application (extract)
Argon
General surgery
ENT
Argon-Flex
Gastroscopy
Double balloon enteroscopy
Bronchoscopy
Coloscopy
Rectoscopy



ARC300 with ARC Plus argon module



Rigid Handle with Argon electrode



Argon Flex electrode