

# Grazedean Ltd

## ARC 300e 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 two instruments

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Authorised Distributors For:

**BOWA**  
EINFACH SICHER  
SIMPLY SAFE

# Introduction to the ARC 300e

The ARC 300e HF generator provides the most up-to-date technology and technical innovations. The unit settings are already pre-programmed for numerous applications. The software can be updated and upgraded.

Extremely fast processors ensure that the ARC CONTROL is optimally integrated, while self-check programs continuously provide maximum safety. The two outputs are easy to control and enable the most important accessories to be connected. The user can take in all settings at a glance.

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.

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

Flexible: third-party accessories can also be connected to the monopolar and bipolar output using an adapter. As an option, the unit can also be used for Argon Plasma coagulation.

Convenient: many of the 100 locations for storing programs are already pre-programmed. Programs can be shown and hidden as well as named individually. All the main settings / information can be displayed in different languages.

Field of application (extract)	Program
General surgery	Standard, Argon*
Urology	TUR-P, TUR-BT, TUR-VAP
Plastic surgery	MacroPlastic
Gynaecology	Gyn-Abdominal
Plastic surgery, oral and maxillofacial surgery	Micro Plastic Neuro + Hand
Paediatrics	Pediatric
ENT	ENT
Gastroenterology	GastroCut* (Polypectomy, Papillotomy), Argon-Flex*

\*Optional extras

Specialising in powerful performance The ARC 300e completes the range of BOWA ARC generators in the medium power segment such as are required in numerous disciplines. Preset programs reduce preparation time for the operation. The team is able to concentrate totally and utterly on the patient.

Transurethral resection: The ARC 300e provides three powerful programs

Transurethral programs
TUR-P (prostate resection)
TUR-BT (vesical tumours)
TUR-Vap (vaporisation)

GastroCut  
ARC 300e has two optional programs for gastroenterological operations: polypectomy and papillotomy. The combination of cutting and coagulation current gives optimum results when using polypectomy loops or papillotomes.

GastroCut programs
GastroCut Pol (polypectomy)
GastroCut Pap (papillotomy)

Like all ARC generators, the unit can optionally be combined with the ARC PLUS argon unit for gastroenterological operations: Argon and Argon-Flex. By using the Argon and Argon-Flex programs, the ARC 300e becomes a powerful workstation for endoscopy and surgery.

## Accessories

A full range of accessories is available for the ARC generators including SHE SHA Smoke Evacuation, forceps, handswitches, dispersive plates, electrodes, footswitches and ARC Cart to keep devices secure.

Contact us for more information on any these items.



# Technical specification for ARC 300e

Maximum cutting power, short-term	420 watt
Number of types of cutting current	20 + 2 with Gastro / Argon option
Number of types of coagulation current	6 monopolar + 2 with Gastro / Argon option 2 bipolar
Arc control via 32-bit microcontroller (RISC)	Yes
Number of displays / indicators	5
Number of foot switches	1
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 – 300 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

<b>Compendium: Technical specification for high frequency electrosurgical generator ARC 300e</b>	
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 - 130 V / 6.4 A
	198 V - 230 V / 3.2 A
Mains fuse	90 V - 130 V / 8 A slow-acting
	198 V - 230 V / 4 A slow-acting
Mains frequency	50 Hz / 60 Hz
Power consumption in standby mode	55 VA
Max. power consumption at max HF power	750 VA
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 - 75 %, 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 150 x 400 mm
Weight	10 kg



# Introduction to the ARC PLUS

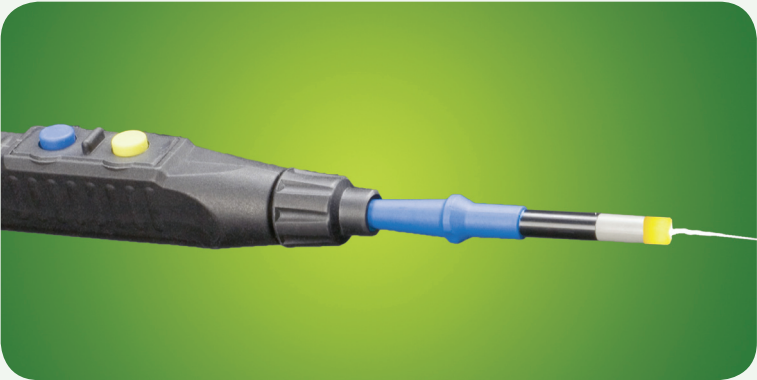
## From stand-alone to a complete workstation

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



ARC300e with ARC Plus argon module



Rigid Handle with Argon electrode



Argon Flex electrode