



RF Ablation System

C A T A L O G U E

- Advance , Computerised Monopolar "RF Ablation system" with tissue impedance feedback technology provide output according to impedance.
- Dual Microprocessor based energy management system with Auto Start and Stop modes.
- Precision of dissection with Bloodless field.
- Reduced operation time with operative precision and minimal tissue injury.
- Provides quick recovery to the patient with decreased post op pain and Edema.
- Radio frequency (RF) alternating current to heat the tissue.
- Helps in Large Intuitive touch screen easy parameter recall.

**DIVLABS**


An ISO 9001 : 2000 & ISO : 13485 Certified Co.
WWW.divilabsindia.com

Intuitive User Interface...





CHECK PATIENT PLATE CONNECTIONS ×

Audio Patient Plate Alarm with visual pop-up



SEAL COMPLETE ×

Pop-up for seal completion



REGRASP ×

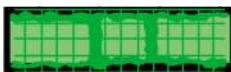
Pop-up for improper contact/ incomplete seal

CHECK HF LEAK ×

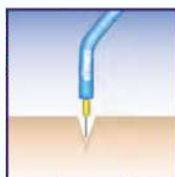
Audio HF Leak Alarm with visual pop-up

RF WAVERFORMS

1. Fully Filtered (Cut)



- Micro-smooth cutting
- Negligible lateral heat
- Minimal cellular destruction
- Best cosmetic results. Fastest healing^{4,5}
- Ideal for skin incision and biopsy
- 4.0 MHz



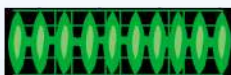
4. Fulguration



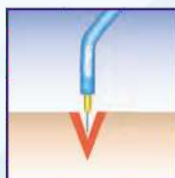
- Maximum hemostasis
- Ideal for intentional tissue destruction
- 4.0 MHz



2. Fully Rectified (Cut/Coag)

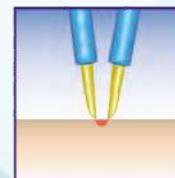


- Cutting with hemostasis
- Ideal for sub-cutaneous tissue dissection and planing. Especially useful in vascular areas while producing minimal amounts of lateral heat and tissue damage
- 4.0 MHz



5. Bipolar

- Pinpoint, micro-coagulation
- Minimal charring or tissue necrosis
- Ideal for coagulation in and around critical anatomy
- 1.7 MHz



3. Partially Rectified (Hemo)



- Coagulation / Shrinkage
- Ideal hemostasis with controlled penetration
- For cutting with maximum hemostatic control
- 4.0 MHz



ADVANCE FEATURES

- 10 Pre set programs and 90 onsite programs-100 programmable memory locations.
- Activation is both by footswitch and handswitch for all the different modalities - monopolar & bipolar.
- Intuitive "Pop Up" and audio signals for all events:
 1. Patient / neutral plate contact quality and connection for outmost patient safety.
 2. HF Leak - for monitoring and control of Leakage current.
 3. Re grasp - for incorrect application of Vessel sealing instrument.
 4. Seal complete - Signal for the user to safely proceed with the cutter after successful sealing.
- Bipolar Forceps, Non - Stick, Bayoneted and Staright General Features:
 1. Extra low profile tips to allow tine micro-surgical procedures.
 2. Micro tip geometry allow insulation disappear to allow full view through tips.
 3. Classic plateau shaped options also required for better grasping and coagulation,
 4. Options of short and bulky tips for better safety, Prevent damage to surrounding structures and better grip.
 5. Stop guide function that allow spring like action, prevent torsion / or overlapping of tips.
 6. Excellent grip by provision of large rough surfaces.
 7. Non stick surface at the tip.
 8. The entire instrument is autoclavable.
 9. Heat transfer on metal tips equality during coagulation to allow non- sticking of tissue.
 10. The connector should fit to existing/ and all commonly generator.
- Technical Specification
 1. Radio Frequency Generator: 4 MHz.
 2. Power output: Monopolar and bipolar.
 3. No need for ground contact or skin contact of antenna Plate.
 4. Monopolar and bipolar Finger switch & foot switch activation.
 5. Microprocessor controlled with safety check feature .
 6. Cardiac Floating:- defibrillator proof.
 7. Fully rectified waveform.
 8. Partially rectified waveform.
 9. Fulguration.
 10. For cut, coagulation, hemostasis, fulguration.
 11. RF :- use current to heat the tissue.
- All reusable accessories and probes are autoclavable.
- It has 4 MHz output frequency with conventional RF energy principle of Cutting & coagulation.
 - Dual Microprocessor based energy management system with Auto Start and Stop modes of Bipolar (Optional Irrigator).
- Self Diagnostic functionality with Safety Check POP UP & Alarm for HF leak & Patient plate connection.
- Foot Switch & Hand Switch activated Monopolar & Bipolar Mode for different Surgical effect Such as Cut & Coagulation.
- Facility of automatic tissue impedance which provide output according to impedance.
- Auto diagnosis facility during power ON for safety.
- Bipolar Forceps, Non-Stick, Bayoneted and Straight, Reusable and disposable, Silver coated Sizes: -
 1. (D004BF) Bipolar forceps 16cm. bayonet. tip 0.2 x 6.0mm
 2. (D005BF) Bipolar forceps 22cm. bayonet. tip 0.2 x 8.0mm Micro Tip
 3. (D006BF) Bipolar forceps 17.5cm, straight, tip 1.0 x 8.0mm
 4. (D007BF) Bipolar forceps 17.5cm, straight, tip 0.7 x 8.0mm Micro Tip
 5. (D008BF) Bipolar forceps 17.5cm, straight, tip 0.4 x 8.0mm Micro Tip
- Reusable Non Stick Diamond coated Specialized Bipolar Forceps.
 1. (D009BF) Bipolar forceps Classic 21.5cm, bayonet, tip 0.7 x 6.0mm
 2. (D010BF) Bipolar forceps Classic 17.5cm, bayonet, tip 0.7 x 6.0mm
 3. (D011BF) Bipolar forceps Classic 20.5cm, bayonet, tip 0.7 x 6.0mm
 4. (D012BF) Bipolar forceps Classic 16.5cm, bayonet, tip 0.7 x 6.0mm
 5. (D013BF) Bipolar forceps Classic 22 cm, bayonet, tip 0.7 x 6.0mm

BIPOLAR FORCEPS



Code #	Overall Length	Working Length	Tip Angle	Tip Size	Type
00 - 7133	14.5 - 24.0 Cm	4-5 Cm	10 degree	0.2mm	Straight / Bayonet
00 - 7134	16.0 - 24.0 Cm	5-12 Cm	0 degree	0.2mm	Straight / Bayonet
00 - 7135	16.0 - 24.0 Cm	5-12 Cm	0 degree	0.4mm	Straight / Bayonet
00 - 7136	16.0 - 24.0 Cm	5-12 Cm	0 degree	0.7mm	Straight / Bayonet
00 - 7137	16.0 - 24.0 Cm	5-12 Cm	0 degree	1.0mm	Straight / Bayonet
00 - 7138	12.0 - 20.0 Cm	3-6 Cm	0 degree	0.2mm	Straight / Bayonet
00 - 7139	23.0 - 25.0 Cm	11-14 Cm	Upward	1.2mm	Straight / Bayonet
00 - 7140	23.0 - 25.0 Cm	11-14 Cm	Downward	1.2mm	Straight / Bayonet
00 - 7141	23.0 - 25.0 Cm	11-14 Cm	Upward	0.2mm	Straight / Bayonet
00 - 7142	23.0 - 25.0 Cm	11-14 Cm	Downward	0.2mm	Straight / Bayonet

*All available in different size and shape

RF ACCESSORIES



ELECTRODES



HANDSWITCH PENCIL



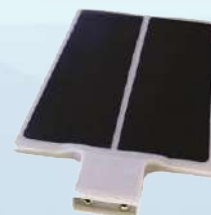
BIPOLAR FORCEPS CABLE



DISPOSABLE - PATIENT PLATE



BIPOLAR FORCEPS STORAGE BOX



REUSABLE - PATIENT PLATE



FOOTSWITCH

OUTPUT CHARACTERISTICS-RADIO FREQUENCY GENERATOR

ELECTRO SURGICAL UNIT	MODE	*PER	MAXIMUM P-P VOLTAGE	RATED LOAD (ohms)	MAX. POWER (WATTS)	**CREST FACTOR
BIPOLAR 4 MHz	Micro/Coag	Fully Filtered	80	50	50	1.5
	Macro/Cut		80	50	50	1.5
	Plasma Bipolar		95	50	50	1.5
	Auto		95	50	50	1.5
MONOPOLAR CUT 4 MHz	Pure/Cut 1	Fully Filtered	800	300	120	1.5
	Blend 1	Fully Rectified	500	500	120	2.4
	Blend 2		600	500	120	3.4
	Endo cut		500	200	120	1.8
MONOPOLAR COAG 4 MHz	Soft/Contact		Partially Rectified	500	150	65
Desiccate	300	150		65	4.4	
Forced/Fulgurate	400	500		40	4.7	
Spray	500	500		65	4.8	

* PER (Power Efficiency Rating): A measure of an Radio Frequency generator ability to deliver the selected power into a wide range of impedance.

** Crest Factor is an indicator of a waveforms' ability to coagulate bleeders without cutting effect.

CERTIFIED TO IEC-60601-2-2, IEC 60601-1-2 & IEC 60601-1

Weight and Dimensions Height : 25 cm Width : 33.5 cm Length : 47.0 cm Weight : 8 Kg. (18 lbs)	Input Power Requirements Volts : 100-270 VAC Amps : 3-6A Input : 800 VA, 50/60 Hz
Low Frequency Leakage (50-60Hz) Patient leakage < 10 uArms	Audio Volume The mode indicator tones are adjustable to a minimum level of 45 dba at 1 meter.
High Frequency Leakage Less than 10 mA rms., all output	Operating Mode Duty Cycle int 10s/30s

DIVLABS HEALTHCARE PVT. LTD.

AN ISO 9001:2000 & ISO: 13485 COMPANY

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* Specifications subject to change without notice. * Accessories shown are not part of main unit.

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