

# USER MANUAL

## EXCELL 400 MCDSe, 350MCDSe, 250MCDSe, 200MCDSe



This unit is manufactured by ALSA Apparecchi Medicali s.r.l. – Castel Maggiore (Bologna - Italy) – Phone +39.051.700.101, which is responsible for its functioning, liability and safety only if the device is used, according to these instructions, in an area that meets IEC Standards and only if installation, calibrations or repairs are performed by authorized personnel who use original spare parts. On request, ALSA will provide the user with the related electric diagrams and/or any further technical or practical information. This manual has to be kept where the unit is used and it must be replaced in case of loss. The users must read it carefully before use and, if it is not clear for the specific need, they must contact the company before starting any procedure (To replace this manual / to have more information, either directly or through the local distributor, contact the company)

In compliance with the requirements of 93/42 + 2007/47 European MDD the users are kindly invited to inform the company, in order to intervene as soon as possible, about any problem of these units.

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*All the Excell MCDSe units have the same front panel and identical technical features, they have different output powers only.*

*Because of this reason in this manual the front panel of the 400 MCDSe model is used*

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## CURRENTS

### **THE MONOPOLAR CURRENTS FOR CUTTING AND COAGULATING CUTTING.**

**PURE – Cutting without coagulating effect. It is suitable for the following:**

To perform the papillotomy (starting from 20/30W) or to all the other needs which require a cut, without coagulating effect.

**BLEND-1 - Cutting with soft coagulating effect. It is suitable for the following:**

To perform either the papillotomy (starting from 20/30W) or the other needs which require a cut, with soft coagulating effect.

**BLEND-2 - Cutting with strong SPRAY coagulating effect. It is suitable for this following:**

To perform the either polipectomy (starting from 20/30W) or the other needs which require a cut, with strong coagulating effect.

**ENDO – Current including phases of cutting and phases of coagulation . It is suitable for this use.**

To perform the polipectomy (starting from 50W for polyps with  $\varnothing$  up to 5mm, starting from 80W FOR polyps with  $\varnothing$  wider than 5mm)

The currents **FULG FORCED** or **PIN POINT CONTACT** for coagulation allow the obtaining, when performing a polipectomy, of a very good coagulating cutting.

### **THE MONOPOLAR CURRENTS FOR COAGULATION.**

**FULG FORCED – (Fulguration) No contact Coagulation with strong superficial sparking. It is suitable for the following:**

To coagulate (starting from 20/30W), with strong and fast effect, all kinds of tissue (with medium or heavy bleeding).

To cut when performing a polipectomy (starting from 20/30W) because it coagulates very well the wall under the polyp. For this use the intermittent activation (by fast and short pressures on the foot-switch), is advisable.

**PIN POINT CONTACT - Coagulation with medium superficial sparking. It is suitable for the following:**

The same use of the **FULG FORCED** current (starting from the same power settings, but with a slightly lower sparking / superficial effect.

**SOFT and SPRAY currents are not suitable for this use**

**For the ARGON COAGULATION the SPRAY current (starting from 70/80W) is needed.**

### **THE BIPOLAR CURRENTS FOR CUTTING.**

The bipolar currents for cutting are not used

### **THE BIPOLAR CURRENTS FOR COAGULATION**

**MICRO is the current suitable in case of use of a bipolar flexible loop (starting setting of 20/30W).**

STARTING SETTINGS (The settings can be changed according to the personal preferences)								
Papillotomy or other procedures which need pure cut or a slightly coagulating cut								
CUTTING		COAGULATION		BIP COAG		ARGON GAS COAGULATION		
<i>PURE</i>	20/30W	<i>FULG FORCED</i>	20/30W	<i>MICRO</i>	20/40W	<i>If the unit is provided with this mode</i>		
		<i>PIN POINT</i>	20/30W			<i>SPRAY</i>	<i>70/80W</i>	<i>Argon 6/7 lt/min</i>
If doctor prefers a cut with a slightly coagulating effect.								
<i>BLEND 1</i>	20/30W							
Polipectomy or other procedures which need strong coagulating cut								
<i>ENDO (Note 1)</i>	40/50W	<i>FULG FORCED</i>	20/30W					
		<i>PIN POINT</i>	20/30W					
<i>FULG FORCED (Note 3)</i>	20/40W							
<i>PIN POINT (Note 3)</i>	20/40W							

**Note 1)** The difference between a normal current and an AUTO current is that the first one delivers a constant power and the second one delivers a constant voltage. The superficial effect (i.e. the superficial carbonization which is a side effect of all the currents) of a constant voltage current is lower than that of a constant power current, but the related power is more affected by the resistance of the tissues, so the related power setting must be higher

(Because of the previous reasons, by using a constant voltage current, the required power setting is more affected by the dimensions of the polyp: 40/50W if the polyps have a diameter up to 5mm, 60/80W if the polyps are larger than 5 mm.

**Note 3)** Since the perfect coagulation of the tissues under the polyp is needed, the currents for coagulation are very efficacious to obtain a cut with this effect. The delivery of the current must be intermittent (by short pressures of the foot-switch)