

COBLATOR II Surgery System



COBLATOR[®] II surgery system

Operating modes

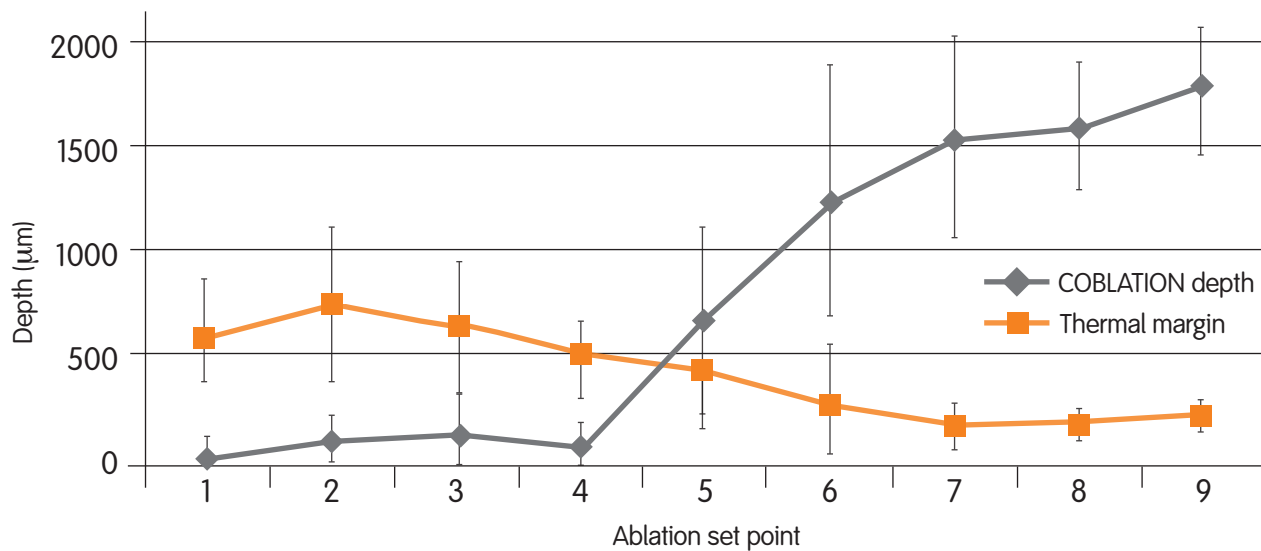
Smith & Nephew COBLATION[®] products are designed to operate in both ablation and coagulation modes, which result in different tissue effects.



Ablation mode

As the Controller settings increase from 1 to 9 in the COBLATION mode, the performance of the Wand transitions from a thermal effect to ablative effect through the creation and intensity of plasma. When the Controller setting increases, the plasma field increases in size, and thermal effect decreases accordingly.

EVAC[®] 70 XTRA tested on beef heart¹



Coagulation mode

All COBLATION Wands can operate in Coag mode for hemostasis. The bipolar nature of the Wand sends energy through the desired tissue, coagulating the blood vessels through a resistive heating process.

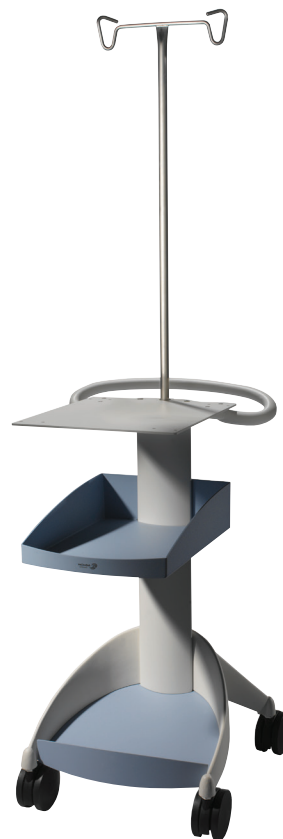
COBLATOR[®] II parts



EC8000-01
COBLATOR II controller



EA 8002-00
Flow control unit



ENTCARTPOLE
COBLATION[®] ENT system cart



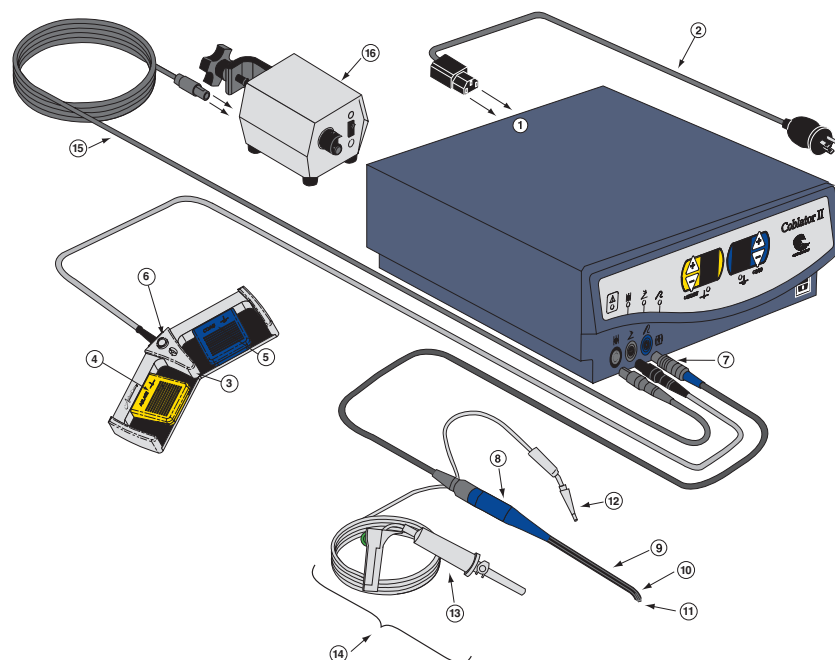
H 3000-03
Shield foot control



H 3000-01
Foot control

COBLATOR[◇] II system set-up*

Connection diagram



- 1 Controller
- 2 Power cord
- 3 Foot control
- 4 Ablate pedal
- 5 Coagulation pedal
- 6 Coblate set point adjustment button
- 7 Controller connector
- 8 Handle
- 9 Shaft
- 10 Return electrode
- 11 Active electrode tip
- 12 Suction tube
- 13 Irrigant tube
- 14 Wand
- 15 Flow control cable
- 16 Flow control valve unit

COBLATOR II surgery system specifications

Controller input power requirements	Voltage	90-120 VAC
	Frequency	50/60 Hz
	RMS current	8 Amps Max
	Fuse rating	T8 Amps 250V for 120 VA
Output power	Fundamental frequency	100 kHz
	Voltage range	0-300 Vrms @ 100 kHz
	Max output power	400 W @ 250 Ω
	Operation temperature	10° C to 40° C
Controller dimensions	Weight (max)	<10 kg (22.4 lbs)
	Height	13cm (5.25 inches)
	Width	41cm (1.4 ft)
	Length	45cm (1.45 ft)
Flow control valve unit dimensions	Weight (max)	1 kg (2.2 lbs)
	Height	8.9cm (3.5 inches)
	Width	10.8cm (4.3 inches)
	Length	22cm (8.7 inches)
Flow control cable	Overall length	4.5 m (14.7 ft)
Part number		EC8000-01

* Refer to COBLATOR II user manual for detailed instructions

COBLATOR[®] II System Set-up

- 1 Turn on the power switch at the front of the Controller. Connect the foot pedal and the Wand cable into the corresponding receptacles on the front of the Controller. When the Wand is connected to the Controller, the default settings for that particular Wand will appear on the Coblate and Coag displays. Adjust as needed and per surgeon preference.
- 2 For Wands with saline irrigation tubing, attach the flow control valve unit to an IV pole by placing the clamp onto the pole. Hang a 500ml or 1000ml bag of saline on the IV pole, and set the bag height approximately 3 feet above the patient for optimal flow.
- 3 Plug one end of the flow control cable into the rear of the flow control valve Unit and the other end into the receptacle on the front of the Controller. Press the valve switch up (so that the green light is illuminated) to open the pinch valve.



Fig. 1

Close the irrigation tubing roller clamp, spike the saline bag with irrigation tubing extension, and thread the irrigation tubing behind the pinch valve.

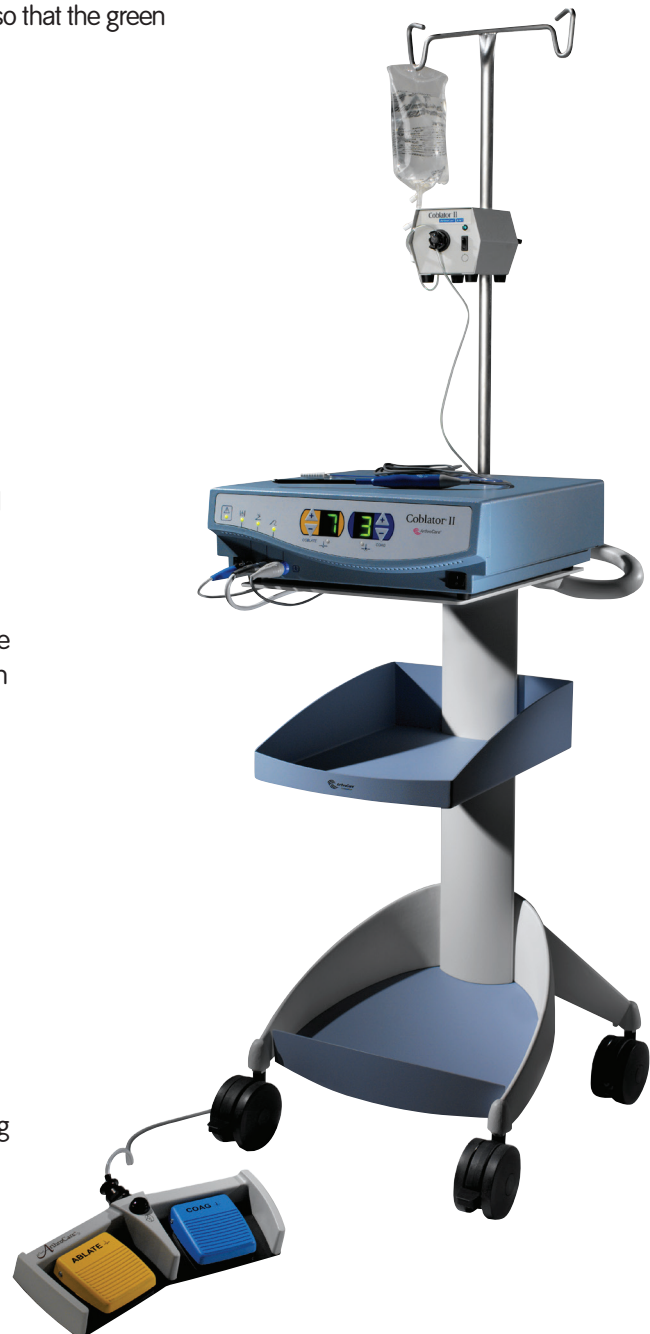
- 4 Open the irrigation tubing roller clamp to manually start the saline flow. Once the saline exits the Wand tip, set the drip rate with the roller clamp to the desired level. Press the valve switch to the down/AUTO position.



Fig. 2

NOTE: Saline should only drip when the surgeon steps on the foot pedal. If saline flows non-stop, check that the saline tubing is completely engaged in the pinch valve.

- 5 Connect the suction tubing of the Wand to the OR suction (recommended suction pressure is 250-350mm Hg).



References

- 1 Reference P/N 37785. Data on file at Smith & Nephew.

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