



COBLATION[®] Technology

COBLATION technology was designed and patented by Smith & Nephew. The term COBLATION means “controlled ablation.” To date, over 6 million procedures have been successfully performed utilizing Smith & Nephew COBLATION technology to ablate and coagulate tissue.



The COBLATION process involves the creation and application of an energy field called “glow discharge plasma.” This plasma ablates tissue through a chemical process as highly energized particles in the plasma break down molecules in the tissue. COBLATION technology provides two distinct advantages to the surgeon:

- COBLATION technology operates at lower temperatures than other radio frequency (RF)-based technologies.
- The 100µm – 200µm plasma field allows for precise removal of soft tissue with minimal damage to untargeted tissue.

QUANTUM[®] 2 system key proprietary features



Ambient technology

Smith & Nephew is the only arthroscopic system that offers real time temperature monitoring of the intra-articular fluid.

Controller output

Smith & Nephew Controllers use a unique RF output which allows them to deliver the correct amount of power to create plasma. Energy delivery is optimized to provide fast and effective plasma formation while minimizing the dissipation of thermal energy in the joint.

Unique waveform

Smith & Nephew Controllers use a unique waveform that delivers fast ablation speed. The waveform has a sharp leading edge that requires less time to generate plasma and therefore allows more time for active ablation.

Scope safety feature

Smith & Nephew Controllers include proprietary circuits that continuously monitor the energy and automatically suspend the output when there is a spike in current, such as when the Wands are in close proximity to or in contact with metal.

COVAC° COBLATION° wands

The COVAC COBLATION Wand family provides precise tissue removal for ACL debridement, articular cartilage debridement and meniscal sculpting procedures. The COVAC COBLATION Wand family includes four Wands.

Description	Catalog Number
COVAC 50	ASC2530-01
AMBIENT° COVAC 50 IFS	ASHA2530-01
COVAC 70	ASC3730-01
AMBIENT COVAC 70 IFS	ASHA3730-01

Wire electrodes

Wire electrode design provides precise tissue removal.



COVAC 50 Wand



COVAC 70 Wand

Slim shaft and beveled tips

The slim shafts and beveled tips of COVAC Wands are designed to provide access to compact anatomy.

AMBIENT technology

AMBIENT COVAC devices provide accurate real time temperature monitoring of the intra-articular fluid. The temperature of the fluid is continuously displayed on the LCD screen of the Controller. When the temperature within the joint space exceeds the user selected set point, visual and audible alarms will emit from the Controller, providing direct feedback to the surgeon.

Suggested indications

- ACL Debridement
- Meniscectomy
- Articular cartilage debridement
- Synovectomy
- Labrum resection



Technical specifications

COBLATION° Wands

	AMBIENT°COVAC 50 IFS	AMBIENT COVAC 70 IFS	COVAC 50	COVAC 70
Catalog number	ASHA2530-01	ASHA3730-01	ASC2530-01	ASC3730-01
Controller	QUANTUM° 2 systems ONLY	QUANTUM° 2 systems ONLY	ATLAS° and QUANTUM systems	ATLAS and QUANTUM systems
Recommended COBLATION settings	7-9	7-9	7-9	7-9
Shaft diameter	3.0mm	3.0mm	3.0mm	3.0mm
Temperature accuracy	+/- 3° C	+/- 3° C	n/a	n/a

ArthroCare Corporation

7000 West William Cannon Drive
Austin, TX 78735
USA

www.smith-nephew.com

Order Entry: 1-800-343-5717
Order Entry Fax: 1-888-994-2782

© 2015 Smith & Nephew, Inc.

°Trademark of Smith & Nephew. Reg. US Pat. & TM Office.

P/N 32855 Rev. D 01/15