

 **smith&nephew**  
**COBLATION<sup>®</sup>**  
**WEREWOLF<sup>®</sup>**  
System



## Pioneering a new standard of COBLATION technology

Combining COBLATION<sup>®</sup> technology with FLOW~IQ<sup>®</sup> technology to remove tissue with remarkable speed and precision.





# COBLATION<sup>®</sup> technology

More than:

10,000,000 procedures.<sup>1</sup>

20 years of innovation.

5 years of product development.

One new system.



Performance. Versatility. Confidence.

# WEREWOLF

The WEREWOLF<sup>®</sup> COBLATION<sup>®</sup> system with FLOW~IQ<sup>®</sup> technology is the first and only platform to automatically optimize both energy delivery and saline flow, setting a new standard of performance, versatility, and confidence in arthroscopic resection.

## Unparalleled performance

FLOW~IQ wands for the WEREWOLF system take ablation speed and precision to a new level.

- The new FLOW 50<sup>°</sup> COBLATION wand removes tissue approximately 4 times faster and at lower temperatures than our market-leading 50 degree wand.<sup>2</sup>
- Precisely treats tissue with minimal discoloration, while preserving delicate tissue structures such as articular cartilage and meniscus.<sup>3,4</sup>

## True versatility<sup>5,6</sup>

The WEREWOLF system enables surgeons to treat various pathologies while minimizing instrument exchanges.

- A single wand features 5\* distinct operating modes, including VAC mode which quickly clears debris and optimizes visibility.
- Intuitive touch screen and customized surgeon profiles simplify user experience.
- Compatible with 18-pin QUANTUM<sup>®</sup> 2 wands

## Absolute confidence<sup>5,6,7</sup>

The WEREWOLF system provides a family of features designed to optimize patient safety.

- Enhanced AMBIENT<sup>®</sup> technology with two-zone monitoring provides accurate, real-time temperature of the intra-articular fluid.
- FLOW~IQ integrated suction tubing eliminates the need to connect separate outflow tubing to the wand.
- New Scope-Sensing technology provides a high level of protection for expensive surgical equipment.
- COBLATION technology is backed by nearly two decades of market leadership, technical expertise, and scientific research.

\* Excludes QUANTUM<sup>®</sup> ablation mode

# The technologies of the WEREWOLF<sup>◇</sup> system

COBLATION<sup>◇</sup>  
technology



FLOW~IQ<sup>◇</sup>  
technology



SCOPE-SENSING<sup>◇</sup>  
technology



AMBIENT<sup>◇</sup>  
technology



## COBLATION<sup>®</sup> technology

COBLATION technology means 'controlled ablation.' 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.<sup>8</sup>
- The 100µm – 200µm plasma field allows for precise removal of soft tissue with minimal damage to untargeted tissue.<sup>9</sup>

## FLOW~IQ<sup>®</sup> technology

Flow matters. Intra-articular fluid flow and wand suction influence wand performance. The first of its kind, FLOW~IQ technology provides automated wand suction to optimize performance across tissue types.

- FLOW~IQ technology changes the size and intensity of the plasma field based on desired tissue effects.<sup>10</sup>
- Enables VAC mode to rinse the joint and clear debris – with a simple push of a button.<sup>6</sup>

## AMBIENT<sup>®</sup> technology<sup>6</sup>

Smith & Nephew offers real-time temperature monitoring of the intra-articular fluid in arthroscopic procedures. The WEREWOLF system takes AMBIENT technology to a whole new level with enhanced capabilities.

- New two-zone monitoring measures both the intra-articular fluid temperature and outflow temperatures within the hand piece.
- When the temperature in the joint space exceeds the user selected set point, the controller will emit visual and audible alarms, providing direct feedback to the surgeon.

## SCOPE-SENSING<sup>®</sup> technology<sup>7</sup>

Exclusive to the WEREWOLF system, Scope-Sensing technology allows the surgeon to work more freely around sensitive arthroscopic equipment.

- Proprietary circuits detect when a wand is in close proximity to metal and automatically suspend energy delivery.
- When a safe distance is achieved, COBLATION energy will automatically resume.



# Operating modes for every tissue type<sup>6</sup>

Three COBLATION<sup>®</sup> modes are designed to produce specific ablation speeds and tissue effects, and can be fine-tuned with + and – settings. Changing modes is seamless via either finger switches or foot pedal.

VAC mode is new to the WEREWOLF<sup>®</sup> system and enables surgeons to rinse/lavage the joint without changing instruments. When the wand detects loose debris, COBLATION energy is activated to quickly break down and remove the tissue.



- **Lo:** recommended for chondroplasty
- **Med:** recommended for medium-speed tissue removal
- **Hi:** recommended for rapid removal of tissue
- **Vac:** rinse and remove loose tissue, debris, and bubbles
- **Coag:** recommended for hemostasis







**Subacromial Decompression**



**Chondroplasty**



**Menisectomy**





For ordering information, please contact your Smith & Nephew Sales Representative.

#### References

1. This figure was calculated by capturing the number of COBLATION wands sold during the timeframe of July 2008 –May 2016. (P/N 81915)
2. Smith & Nephew data on file P/N 53303-01. The results of in-vitro simulation testing have not been proven to predict clinical performance. Compares AMBIENT SUPERMULTIVAC® 50 (set point 9) to WEREWOLF FLOW 50 (Vac mode).
3. Smith & Nephew data on file P/N 54952-01. The results of in-vitro simulation testing have not been proven to predict clinical performance.
4. Smith & Nephew data on file (P/N 52918-01). The results of in-vitro simulation testing have not been proven to predict clinical performance.
5. Smith & Nephew WEREWOLF User manual (P/N 64999)
6. Smith & Nephew FLOW 50 IFU (P/N 65994)
7. Smith & Nephew data on file P/N 52786.
8. Woloszko J, Kwende M, Stalder K. "COBLATION in Otolaryngology." Proc. of SPIE, Vol. 341. June 2003.
9. Amiel D, Ball S, Tasto J. "Chondrocyte Viability and Metabolic Activity After Treatment of Bovine Articular Cartilage With Bipolar Radiofrequency: An In Vitro Study." Arthroscopy. Vol 20. No 5 (May-June), 2004: pp503-510.
10. Smith & Nephew data on file P/N 69761 page 27.

#### Disclaimer

Please see the Instructions for Use for each product for a complete list of indications, warnings, precautions and other important medical information.

Supporting healthcare professionals for over 150 years



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